Airedale by MODINE

# EcoChill
# Heat Pump Chiller
# R410A
# 52kW - 200kW

## Technical Manual

CE

bsi. ISO 9001 Quality Management FM00542

ISO 14001 Environmental Management EMS52086

## Customer Services

### Warranty, Commissioning & Maintenance

As standard, Airedale guarantees all non consumable parts only for a period of 12 months, variations tailored to suit product and application are also available; please contact Airedale for full terms and details.
To further protect your investment in Airedale products, Airedale can provide full commissioning services, comprehensive maintenance packages and service cover 24 hours a day, 365 days a year (UK mainland).
For a free quotation contact Airedale or your local Sales Engineer.
All Airedale products are designed in accordance with EU Directives regarding prevention of build up of water, associated with the risk of contaminants such as legionella.
For effective prevention of such risk it is necessary that the equipment is maintained in accordance with Airedale recommendations.

### ChillerGuard

In addition to commissioning, a 24 hour, 7 days a week on-call service is available throughout the year to UK mainland sites. This service will enable customers to contact a duty engineer outside normal working hours and receive assistance over the telephone. The duty engineer can, if necessary, attend site, usually within 24 hours or less.
Full details will be forwarded on acceptance of the maintenance agreement.

| | |
|---|---|
| **CAUTION ⚠** | Warranty cover is not a substitute for maintenance. Warranty cover is conditional to maintenance being carried out in accordance with the recommendations provided during the warranty period. Failure to have the maintenance procedures carried out will invalidate the warranty and any liabilities by Airedale International Air Conditioning Ltd. |

### Spares

A spares list for 1, 3 and 5 years will be supplied with every unit and is also available from our Spares department on request.

### Training

As well as our comprehensive range of products, Airedale offers a modular range of Refrigeration and Air Conditioning Training courses, for further information please contact Airedale.

### Customer Services

For further assistance, please e-mail: connect@airedale.com or telephone:

| | | |
|---|---|---|
| UK Sales Enquiries | + 44 (0) 113 239 1000 | connect@airedale.com |
| International Enquiries | + 44 (0) 113 239 1000 | connect@airedale.com |
| Spares Hot Line | + 44 (0) 113 238 7878 | spares@airedale.com |
| Airedale Service | + 44 (0) 113 239 1000 | service@airedale.com |
| Technical Support | + 44 (0) 113 239 1000 | tech.support@airedale.com |
| Training Enquiries | + 44 (0) 113 239 1000 | training@airedale.com |

For information, visit us at our web site: www.airedale.com

## Health and Safety

### IMPORTANT

The information contained in this manual is critical to the correct operation and maintenance of the unit and should be read by all persons responsible for the installation, commissioning and maintenance of this Airedale unit.

### Safety

The equipment has been designed and manufactured to meet international safety standards but, like any mechanical/ electrical equipment, care must be taken if you are to obtain the best results.

| | |
|---|---|
| **CAUTION ⚠** | When working with any air conditioning units ensure that the electrical isolator is switched off prior to servicing or repair work and that there is no power to any part of the equipment.<br>Also ensure that there are no other power feeds to the unit such as fire alarm circuits, BMS circuits etc. |

Electrical installation commissioning and maintenance work on this equipment should be undertaken by competent and trained personnel in accordance with local relevant standards and codes of practice.
A full hazard data sheet in accordance with COSHH regulations is available should this be required.

### Personal Protective Equipment

Airedale recommends that personal protective equipment is used whilst installing, maintaining and commissioning equipment.

### Manual Handling

Some operations when servicing or maintaining the unit may require additional assistance with regard to manual handling. This requirement is down to the discretion of the engineer.
Remember do not perform a lift that exceeds your ability.

### Refrigerant Warning

The Airedale unit uses R410A refrigerant which requires careful attention to proper storage and handling procedures. Use only manifold gauge sets designed for use with R410A refrigerant. Use only refrigerant recovery units and cylinders designed for high pressure refrigerants.
R410A must only be charged in the liquid state to ensure correct blend makeup.
The refrigerant must be stored in a clean, dry area away from sunlight. The refrigerant must never be stored above 50°C.

### Pressure Equipment Directive (2014/68/EU)

### Minimum and Maximum Operation Temperature (TS) and Pressure (PS)

### Refrigeration

AllowableTemperature Range (TS) = Min -20°C* to Max 120°C**
Maximum Allowable Pressure (PS) = High Side 42 Barg, Low Side 25 Barg

*Based on the refrigerant temperature in the unit off state in the lowest permitted ambient temperature.
**Based on the maximum allowable super heated refrigerant temperature.

### Waterside

AllowableTemperature Range (TS) = Min -16°C* to Max 45°C**
Maximum Allowable Pressure (PS) = 10 Barg

*Based on the waterside temperature in the unit off state in the lowest permitted ambient temperature.
**Based on the waterside temperature in the unit off state in the highest permitted ambient temperature.

### Pressure System Safety Regulations 2000

Refrigeration assemblies/systems may constitute a Pressure System as defined in the Pressure System Safety Regulations 2000.

### Global Warming Potential

The R410A refrigerant has a GWP of 2088 (based on EN378-1:2016, 100 year life)

### Ecodesign Directive 2009/125/EC

The product range within this document is designed in accordance to the European Ecodesign Directive 2009/125/EC. The appendix at the rear section of the manual gives the product compliancy metrics. Products sold outside of the EU are exempt from this directive.

### Dangerous Substances and Explosive Atmospheres Regulations

The completion of a DSEAR (Dangerous Substances and Explosive Atmospheres Regulations) risk assessment must be completed as a legal requirement by the employer of the business where this equipment will be installed. This is not the responsibility of Airedale International Air Conditioning Ltd to undertake as the manufacturer of the equipment.

## Environmental Considerations

**Units with supply water temperatures below +4°C**

- Glycol is recommended when a supply water temperature of +4°C or below is required or when static water can be exposed to freezing temperatures.

**Units subject to ambient temperatures lower than 0°C**

- Glycol of an appropriate concentration (1) must be used within the system to ensure adequate freeze protection. Please ensure that the concentration is capable of protection to at least 3K lower than ambient.
- Water / glycol solution should be constantly circulated through all waterside pipework and coils to avoid static water from freezing.
- Ensure that pumps are started and running even during shut down periods, when the ambient is within 3K of the solution freeze point (1) (i.e. if the solution freezes at 0°C, the pump must be operating at 3°C ambient).
- Additional trace heating is provided for interconnecting pipework.

(1) Refer to your glycol supplier for details.

**Flow Control**

Full design water flow MUST be maintained at all times. Variable water volume is NOT recommended and will invalidate warranty. Care to be taken when selecting a chiller within 5% of the evaporator minimum flow rate. The end user must ensure that flow variation does not fall below this minimum as the chiller will shut down.

### Environmental Policy

It is our policy to:

- Take a proactive approach to resolve environmental issues and ensure compliance with regulatory requirements.
- Train personnel in sound environmental practices.
- Pursue opportunities to conserve resources, prevent pollution and eliminate waste.
- Manufacture products in a responsible manner with minimum impact on the environment.
- Reduce our use of chemicals and minimise their release to the environment.
- Measure, control and verify environmental performance through internal and external audits.
- Continually improve our environmental performance.

### CE Directive

Airedale certify that the equipment detailed in this manual conforms with the following EC Directives:

| | |
|---|---|
| Electromagnetic Compatibility Directive (EMC) | 2014/30/EU |
| Machinery Directive (MD) | 89/392/EEC version 2006/42/EC |
| Pressure Equipment Directive (PED) | 2014/68/EU |
| Ecodesign | 2009/125/EC |

To comply with these directives appropriate national & harmonised standards have been applied. These are listed on the Declaration of Conformity, supplied with each product.

This system has been designed to be connected to a TN type distribution system. For alternate distribution type systems, contact Airedale.

## INDEX

## PRODUCT DESCRIPTION

Reversible outdoor heat pumps for the production of chilled/heated water designed to satisfy the needs of residential and commercial buildings, or for industrial applications.
**The units are mono and dual-circuit, to ensure maximum efficiency both at full load and at partial load.**
**The whole range uses copper - aluminium heat exchanger coil with reduced diameter tube**, allowing a lower quantity of gas to be used compared to traditional coils. **Several versions can be selected, even with quiet operation but all able to ensure high levels of efficiency.**

**Versions**

| | |
|---|---|
| **ECL_H** | Standard |
| **ECL_HL** | Silenced |
| **ECL_HA** | High efficiency |
| **ECL_HE** | Silenced high efficiency |

**ENERGY EFFICIENCY**
Energy efficiency is an important requirement for new projects and redevelopment of the existing ones.
The ECL H series is one of the best solution, as it guarantees high energy efficiency levels with COP values in class "A" Eurovent, , calculated in compliance with European Standard EN14511.

**ACOUSTIC EFFICIENCY**
This new product range does not consider the energy class as the only selection parameter. Chillers can be chosen between different noise levels that do not affect the energy class but maintain the best energy efficiency status. The different versions have been designed to identify the unit according to the intended use of the system. The ECL H range excludes any compromise in technological choices, as efficiency and silence can coexist perfectly.

**MAXIMUM ADAPTABILITY**
To obtain a solution that allows you to save money and to facilitate installation. These units can be configured with an integrated hydronic system. The kit includes the main hydraulic components and it is available in different configurations: with single pump, spare pump or with fixed or variable pumps also inverter and with various static pressures. (see configurator)

**EXTENDED OPERATING RANGE**
This range can work at full load with outdoor temperature up to + 48°C. This occurs in the high efficiency versions and also, for example, in versions with silent operation. Therefore, their natural location is in urban centres, where environmental requirements are strictly related to noise.

**STATE OF THE ART CONTROL**
The controller with liquid crystal display is supplied as per standard with all the units. It has a multilingual user interface, which is available also in remote version (accessory) to be connected to the unit with serial connection.
The presence of an internal clock allows you to program the operation in time periods in order to improve the system efficiency and reduce consumption during periods of non-use.
This option (Night Mode) is perfect for night operation, since it guarantees greater acoustic comfort in the evenings, and a high efficiency in the time of greater load.
**The DCPX accessory (standard in the silenced versions from 0502 to 0754) or the "J" inverter fan is compulsory for the Night Mode in the non-silenced versions.**

Systems consisting of two chillers allow the unit to be adjusted via (Master/Slave), supplied as per standard. In case of several chillers through the Multichiller_EVO. The supervision is possible thanks to different options, with proprietary devices or by integrating other systems via ModBus, Bacnet, LonWorks etc. protocols.

**Version with Desuperheater**
In this configuration a coolant/water heat exchanger is added on the gas flow line. The exchanger is set i series before the condenser and is appropriately sized to guarantee the recovery of all or part of the heat produced, for the free production of hot water at a medium-high temperature for domestic or other uses. Each exchanger is protected by an anti-freeze resistance.

## CONFIGURATOR

| DESCRIPTION | ECL |
|---|---|
| **SIZE** | |
| | 0282-0302-0332-0352-0502-0552-0602-0652-0682-0702-0752 0604-0654-0704-0754 |
| **OPERATING RANGE** | |
| ° | Mechanical thermostatic valve |
| **Y** | Double mechanical thermostatic valve for low temperature (processed water temperature from 18°C to -10°C) * |
| **X** | Electronic thermostatic valve (processed water temperature from 18°C to +4°C) |
| **Z** | Electronic thermostatic valve (processed water temperature from 4°C to -10°C) * |
| **MODEL** | |
| **H** | Heat pump |
| **HEAT RECOVERY (1)** | |
| ° | Without heat recovery |
| **D** | With desuperheater (2) |
| **VERSION** (3) | |
| ° | Compact standard version |
| **L** | Compact low noise version |
| **A** | High efficiency |
| **E** | High efficiency low noise |
| **COILS** | |
| ° | Copper - aluminium |
| **V** | Painted copper - aluminium |
| **R** | Copper - Copper |
| **S** | Tinned Copper - copper |
| **FANS** | |
| ° | Standard |
| **M** | Enlarged (4) |
| **J** | Inverter |
| **POWER SUPPLY** | |
| ° | 400V/3N/50Hz with thermomagnetic switches |
| **1** | 220V/3/50Hz with thermomagnetic switches (5) |

| INTEGRATED HYDRONIC KIT (6) | |
|---|---|
| **00** | Without hydronic kit |
| **Kit with pump/s** | |
| **P1** | Single low head pump |
| **P2** | Double low head pump |
| **P3** | Single high head pump |
| **P4** | Double high head pump |
| **Kit with storage tank and pumps** | |
| **01** | Single low head pump + Storage tank |
| **02** | Double low head pump + Storage tank |
| **03** | Single high head pump + Storage tank |
| **04** | Double high head pump + Storage tank |
| **Kit with storage tank and heaters** | |
| **05** | Single low head pump + Storage tank with holes for immersion heaters |
| **06** | Double low head pump + Storage tank with holes for immersion heaters |
| **07** | Single high head pump + Storage tank with holes for immersion heaters |
| **08** | Double high head pump + Storage tank with holes for immersion heaters |
| **Double loop** | |
| **09** | Double loop |
| **Kit with inverter pump/s** | |
| **I1** | Single low head pump + fixed speed inverter |
| **I2** | Double low head pump + fixed speed inverter |
| **I3** | Single high head pump + fixed speed inverter |
| **I4** | Double high head pump + fixed speed inverter |
| **Kit with storage tank and fixed speed inverter pumps** | |
| **K1** | Single low head pump + Storage tank + inverter |
| **K2** | Double low head pump + Storage tank + inverter |
| **K3** | Single high head pump + Storage tank + inverter |
| **K4** | Double high head pump + Storage tank + inverter |
| **Kit with storage tank and variable speed inverter pumps** | |
| **W1** | Single low head pump + Storage tank + variable speed inverter |
| **W2** | Double low head pump + Storage tank + variable speed inverter |
| **W3** | Single high head pump + Storage tank + variable speed inverter |
| **W4** | Double high head pump + Storage tank + variable speed inverter |

* The Y and Z option is not configurable with W1/W2/W3/W4

**(1) Warning: it is mandatory to guarantee an inlet water temperature not less than 35 °C in the heat recovery (D). For more information on the operating range of the unit, refer to the Magellano selection program**

(2) The desuperheater can only be used in the cooling mode. For the models "YD" e "ZD" contact the head office

(3) Sizes from 0282 to 0352 are only available in the silenced versions "HL/HE"

(4) Available only for sizes from 0282 to 0352.

(5) 220V/3/50Hz only available for sizes from 0280-0352 and from 0604-0704.

(6) Storage tanks with holes for supplementary heaters (not provided) are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

**(2)**

| Version | Size | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
| ° | - | - | - | - | • | • | • | • | • | • | • | • | • | • | • |
| L | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| A | - | - | - | - | • | • | • | • | • | • | • | • | • | • | • |
| E | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |

***Key:***

- • compatible
- - not compatible

## DESCRIPTION OF COMPONENTS

### COOLING CIRCUIT

**Compressor**
Scroll hermetic compressors with 2-pole electric motors. All the compressors are equipped with guard resistance, inner electronic thermal protection device with centralised manual reset.

**System side heat exchanger**
Braze welded AISI 316 steel plate heat exchanger. The heat exchanger is insulated externally with closed cell neoprene anti-condensation material. When the unit is not working, it's protected against ice formation by an electric heater that's only active if the unit is in standby and if the pumps (even outside the unit) are managed via the adjustment of the machine itself.

**Source side heat exchanger**
Made with copper pipes and aluminium louvered fins blocked by mechanical expansion of the pipes. Provided with protective grid.

**Recovery side heat exchanger (optional) (2)**
Braze welded AISI 316 steel plate heat exchanger. The heat exchanger is insulated externally with closed cell neoprene anti-condensation material. When the unit is not running, it is protected against formation of ice by an electric resistance.

**Dehydrator filter**
Hermetic-mechanical with cartridges made of ceramic and hygroscopic material, able to withhold impurities and any traces of humidity present in the cooling circuit.

**Cycle reverse valve**
4-way cycle reverse valve, reverses the cooling fluid flow.

**Mechanical thermostatic valve**
With external equaliser positioned at evaporator outlet, it modulates the flow of gas to the evaporator, according to the heat load, in order to ensure correct heating level of the intake gas.

**Electronic thermostatic valve**
Compared to the classic thermostatic valve, the electronic thermostatic valve stands out for its best overheating regulation. This way, the evaporator is fully exploited increasing the machine yield.
Its use in applications intended for comfort provides important benefits, especially in the presence of variable loads, as it allows you to maintain maximum efficiency with any outdoor air temperature.
In industrial applications, where temperature changes are often required in relation to various environmental conditions, the electronic valve is ideal to prevent the system from continuous calibration, thus adapting the system to different load conditions, making it independent.

**Solenoid valves (1)**
The valves close when the compressor switches off, blocking the flow of refrigerant gas to the evaporator, recovery and the coil.

**Liquid indicator**
It is used to verify that the expansion system is powered correctly and the presence of humidity in the cooling circuit.

**Liquid accumulator**
Compensates for the difference in volume between the finned coil and the plpate heat exchanger, retaining the excessive liquid.

**Liquid separator**
Located on the suction point of the compressor, to protect against any flowback of liquid refrigerant, flooded start-ups, operation in the presence of liquid

### STANDARD HYDRAULIC CIRCUIT

**Water filter**
Equipped with steel filtering mesh, it prevents the heat-exchanger from clogging system side due to any impurity inside the circuit.

**Flow switch**
The flow switch monitors the flow rate through the heat exchanger and stops the unit in case of insufficient flow.

**Air vent valve**
Manual type, discharges any air pockets in the hydraulic circuit.

**Safety valve**
Calibrated at 6 Bar and drain pipe, it activates by discharging overpressure if abnormal pressure occurs.

**Drain valve**

**Pressure gauge**

### HYDRONIC KIT COMPONENTS

**Pump** (3)
It provides useful static pressure to the system, excluding the unit pressure drops. A second standby pump (twin pumps) can be supplied upon request.

**Expansion vessel**
With nitrogen pre-load membrane

**System storage tank**
It is required to reduce the number of peaks of the compressor and to even the temperature of water to be sent to the system.
Made of steel to reduce heat loss and to eliminate the formation of condensation, it is insulated by thick polyurethane. It is equipped with antifreeze electrical resistances to ensure minimum temperature of stored water of +5°, with minimum outdoor temperature of -20°C. The resistance is activated by a water temperature probe placed inside the unit's hydronic circuit.

### WATER FEATURES

| System: Chiller with plate heat exchanger | |
|---|---|
| PH | 7.5-9 |
| Electric conductivity | 10-500µS/cm |
| Total hardness | 4.5-8.5°dH |
| Temperature | < 65°C |
| Oxygen content | < 0.1 ppm |
| Max. glycol amount | 50% |
| Phosphates (PO4) | < 2ppm |
| Manganese (Mn) | < 0.05 ppm |
| Iron (Fe) | < 0.3 ppm |
| Alkalinity (HCO3) | 70 - 300 ppm |
| Chloride ions (Cl-) | < 50 ppm |
| Sulphate ions (SO4) | < 50 ppm |
| Sulphide ion (S) | none |
| Ammonium ions (NH4) | none |
| Silica (SiO2) | < 30ppm |

### COMPONENTS OF THE STRUCTURE AND FANS

**Structure**
Supporting structure made of hot-dipped galvanised steel sheets, painted with polyester powders, built to guarantee easy accessibility for service and maintenance.

**Standard fan unit**
Equipped with accident-prevention net, it consists of axial fans and 6-pole motor with external rotor and protection rating IP54. Moreover, the motor is equipped with inner thermal protection with automatic reset.

(1) Only with mechanical thermostatic valve
(2) The desuperheater can only be used in the cooling mode.
(3) The pumps are programmed in rotation with automatic exchange if the running pump fails

**Larger fans**
Offer a useful head to avoid pressure drops of the aeraulic system if the fans need to be channelled.

**Inverter fans** (4)
Continuous modulation of revolution speed according to the condensation pressure, highly efficient brushless motor for low energy consumption.

**SAFETY AND CONTROL COMPONENTS**

**Manually reset high pressure switch**
With fixed calibration, placed on the high pressure side of the cooling circuit, it inhibits the operation of the compressor if abnormal work pressure occurs

**Low pressure transducer**
Placed on low pressure side of cooling circuit, it signals the work pressure to the control board, generating a pre-warning in case abnormal pressure occurs.

**High pressure transducer**
Placed on the high pressure side of the cooling circuit, signals the work pressure to control board, generating a pre-warning in case abnormal pressure occurs

**Checking the speed of the fans DCPX** (5)
Condensation check by means of a fan speed continuous regulation device.
As the speed of the fan is managed electronically, it is increased automatically to guarantee unit proper operation in the event environmental conditions become more demanding.

**Control and electric power board**
complete with:
- Door lock main isolating switch,
- magnet circuit breakers and contactors for compressors and fans,
- REMOTE PANEL terminal boards
- spring type control circuit terminal board
- outdoor electric board with double door and gaskets,
- electronic controller,
- evaporator pump and recovery pump control consent relay (only for versions without pump units).
- All numbered cables

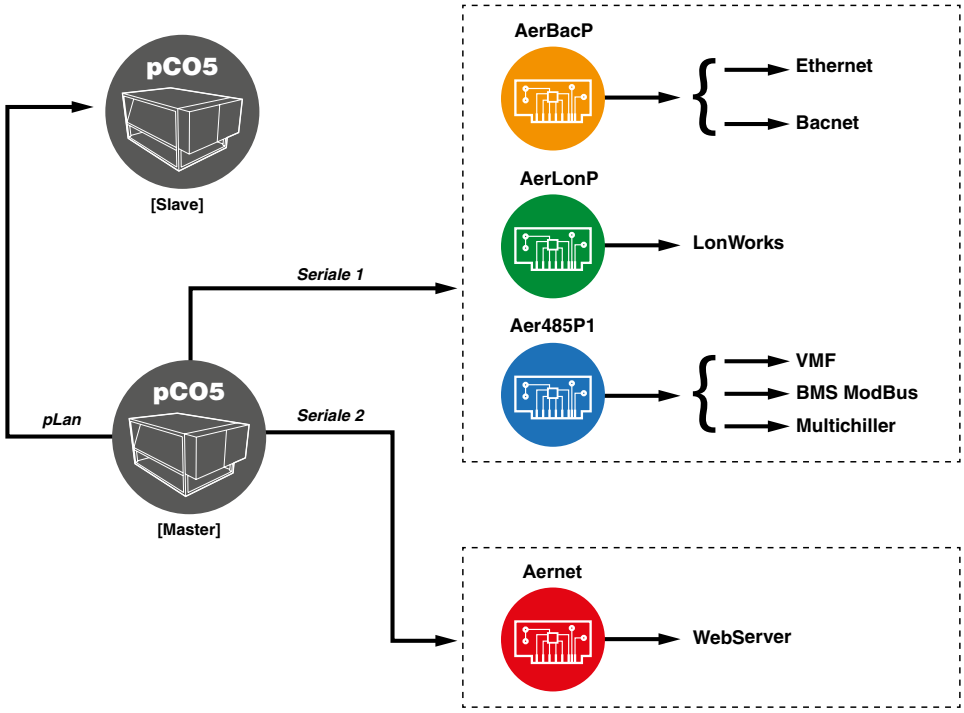
**DOOR-LOCK ISOLATING SWITCH**
THE electrical board can be accessed by disconnecting the power supply using the door-lock isolating switch lever. In order to prevent energising the unit accidentally during maintenance, the isolator switch has been provided with a safety-lock.

**Control board**
The microprocessor controls features cutting edge functions and proprietary adjustments
The control panel allows the user to consult and manage the unit operating parameters thanks to a purposely designed multi-language graphic interface. The multi-level menu can be used to control:
- The system temperature for cooling the environments or industrial processes. The different temperatures are managed automatically according to the unit work conditions and requirements.
- Management and alarm log to have always a prompt diagnosis of the unit operation.
- Creation of operation time periods required for efficient programming
- A self-adaptive logic is used to defrost. This logic allows you to adjust the number of defrosts in order to increase efficiency.

Systems consisting of two chillers allow the unit to be adjusted via (Master/Slave), supplied as per standard. In case of several chillers through the Multichiller_EVO.
The supervision is possible thanks to different options, with proprietary devices or by integrating other systems via ModBus, Bacnet, LonWorks etc. protocols.
A specific keyboard for wall-mounting installation (PGD1 accessory) allows the remote control of all the functions.

**Note: For further information, refer to the user manual.**

(4) Accessoire DCPX is not necessary
(5) Is fitted as **standard** on versions L - E and with desuperheater **from size 0502 to 0754**



## INSTALLATION - HYDRAULIC DIAGRAMS AND WATER FEATURES

### INTERNAL AND EXTERNAL HYDRAULIC CIRCUIT ECL H 00 (STANDARD)

**COMPONENTS PROVIDED AS STANDARD**

**1** Plate heat exchanger
**2** Water temperature sensors
**3** Antifreeze electric heater (standard in the heat exchanger)
**4** Water filter
**5** Air vent valve
**6** Safety valve
**7** Flow switch
**8** Pressure gauges
**9** Drain valve

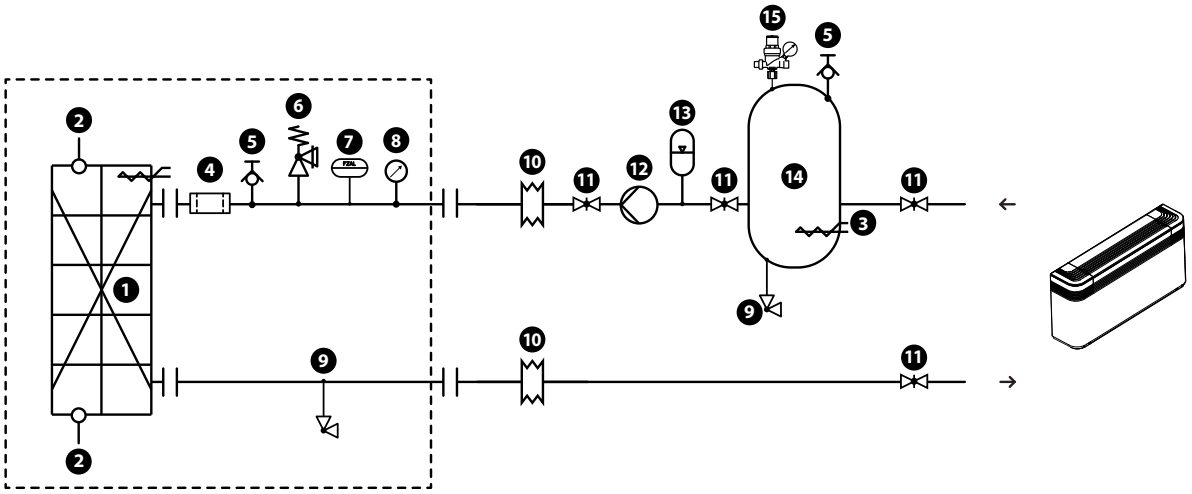
**HYDRAULIC COMPONENTS RECOMMENDED EXTERNAL TO UNIT (RESPONSIBILITY OF THE INSTALLER)**

**3** Antifreeze electric heater
**5** Air vent valve
**9** Drain valve
**10** Anti-vibration joints
**11** Cut-off valve
**12** Pump
**13** Expansion Tank
**14** System buffer tank (installation recommended whenever the system water content is less than that indicated to the chapter "Water system content")
**15** Automatic Filling Valve

**WATER FEATURES**

| System: Chiller with plate heat exchanger | |
|---|---|
| PH | 7.5-9 |
| Electric conductivity | 10-500µS/cm |
| Total hardness | 4.5-8.5°dH |
| Temperature | < 65°C |
| Oxygen content | < 0.1 ppm |
| Max. glycol amount | 50% |
| Phosphates (PO4) | < 2ppm |
| Manganese (Mn) | < 0.05 ppm |
| Iron (Fe) | < 0.3 ppm |
| Alkalinity (HCO3) | 70 - 300 ppm |
| Chloride ions (Cl-) | < 50 ppm |
| Sulphate ions (SO4) | < 50 ppm |
| Sulphide ion (S) | none |
| Ammonium ions (NH4) | none |
| Silica (SiO2) | < 30ppm |

**Unit** **Components recommended**



***Do not fill up the hydraulic system by glycol near the suction of the pump. High concentration of glycol could stuck the pump. Do not use the pump to mix water and glycol***

## INTERNAL AND EXTERNAL HYDRAULIC CIRCUIT ECL H P1-P3 (WITH PUMP)

### COMPONENTS PROVIDED AS STANDARD

**1** Plate heat exchanger
**2** Water temperature sensors
**3** Antifreeze electric heater (standard in the heat exchanger)
**4** Water filter
**5** Air vent valve
**6** Pump
**7** Drain valve
**8** Cut-off valve
**9** Expansion Tank
**10** Safety valve
**11** Pressure gauges
**12** Flow switch

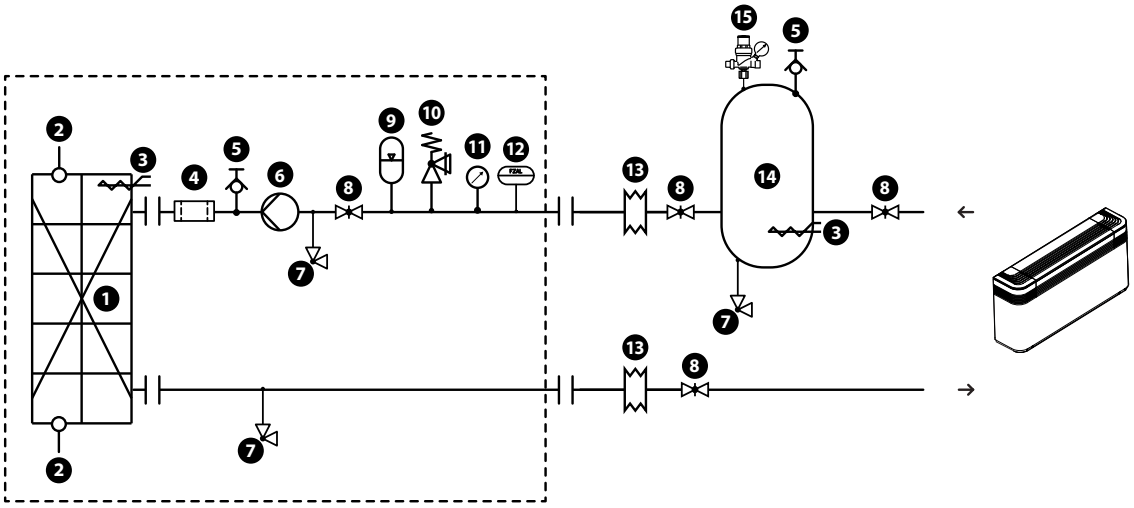
### HYDRAULIC COMPONENTS RECOMMENDED EXTERNAL TO UNIT (RESPONSIBILITY OF THE INSTALLER)

**3** Antifreeze electric heater
**5** Air vent valve
**7** Drain valve
**8** Cut-off valve
**13** Anti-vibration joints
**14** System buffer tank (installation recommended whenever the system water content is less than that indicated to the chapter "Water system content")
**15** Automatic Filling Valve

### WATER FEATURES

| System: Chiller with plate heat exchanger | |
|---|---|
| PH | 7.5-9 |
| Electric conductivity | 10-500µS/cm |
| Total hardness | 4.5-8.5°dH |
| Temperature | < 65°C |
| Oxygen content | < 0.1 ppm |
| Max. glycol amount | 50% |
| Phosphates (PO4) | < 2ppm |
| Manganese (Mn) | < 0.05 ppm |
| Iron (Fe) | < 0.3 ppm |
| Alkalinity (HCO3) | 70 - 300 ppm |
| Chloride ions (Cl-) | < 50 ppm |
| Sulphate ions (SO4) | < 50 ppm |
| Sulphide ion (S) | none |
| Ammonium ions (NH4) | none |
| Silica (SiO2) | < 30ppm |

**Unit** **Components recommended**



***Do not fill up the hydraulic system by glycol near the suction of the pump. High concentration of glycol could stuck the pump. Do not use the pump to mix water and glycol***

## INTERNAL AND EXTERNAL HYDRAULIC CIRCUIT ECL H P2-P4 (WITH DOUBLE PUMP)

### COMPONENTS PROVIDED AS STANDARD

**1** Plate heat exchanger
**2** Water temperature sensors
**3** Antifreeze electric heater (standard in the heat exchanger)
**4** Water filter
**5** Air vent valve
**6** One way valve
**7** Pump
**8** Drain valve
**9** Cut-off valve
**10** Expansion Tank
**11** Safety valve
**12** Pressure gauges
**13** Flow switch

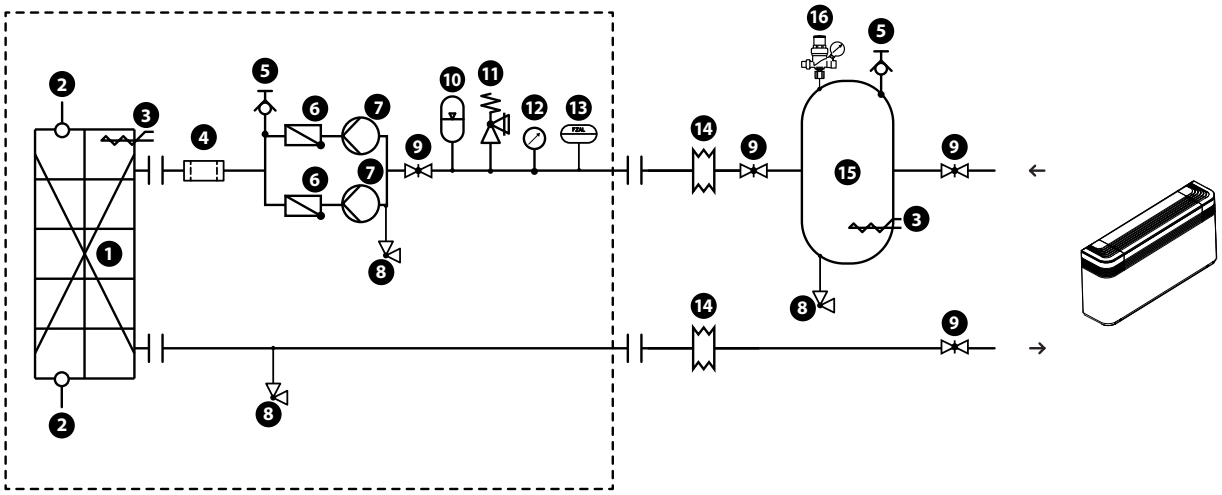
### HYDRAULIC COMPONENTS RECOMMENDED EXTERNAL TO UNIT (RESPONSIBILITY OF THE INSTALLER)

**3** Antifreeze electric heater
**5** Air vent valve
**8** Drain valve
**9** Cut-off valve
**14** Anti-vibration joints
**15** System buffer tank (installation recommended whenever the system water content is less than that indicated to the chapter "Water system content")
**16** Automatic Filling Valve

### WATER FEATURES

| System: Chiller with plate heat exchanger | |
|---|---|
| PH | 7.5-9 |
| Electric conductivity | 10-500µS/cm |
| Total hardness | 4.5-8.5°dH |
| Temperature | < 65°C |
| Oxygen content | < 0.1 ppm |
| Max. glycol amount | 50% |
| Phosphates (PO4) | < 2ppm |
| Manganese (Mn) | < 0.05 ppm |
| Iron (Fe) | < 0.3 ppm |
| Alkalinity (HCO3) | 70 - 300 ppm |
| Chloride ions (Cl-) | < 50 ppm |
| Sulphate ions (SO4) | < 50 ppm |
| Sulphide ion (S) | none |
| Ammonium ions (NH4) | none |
| Silica (SiO2) | < 30ppm |

**Unit** **Components recommended**



***Do not fill up the hydraulic system by glycol near the suction of the pump. High concentration of glycol could stuck the pump. Do not use the pump to mix water and glycol***

## INTERNAL AND EXTERNAL HYDRAULIC CIRCUIT ECL H 01-03-05-07 (WITH PUMP + STORAGE TANK) (*)

**COMPONENTS PROVIDED AS STANDARD**

**1** Plate heat exchanger
**2** Water temperature sensors
**3** Antifreeze electric heater (standard in the heat exchanger and storage tank)
**4** Air vent valve
**5** Water filter
**6** Pump
**7** Drain valve
**8** Cut-off valve
**9** Expansion Tank
**10** System buffer tank
**11** Safety valve
**12** Pressure gauges
**13** Flow switch

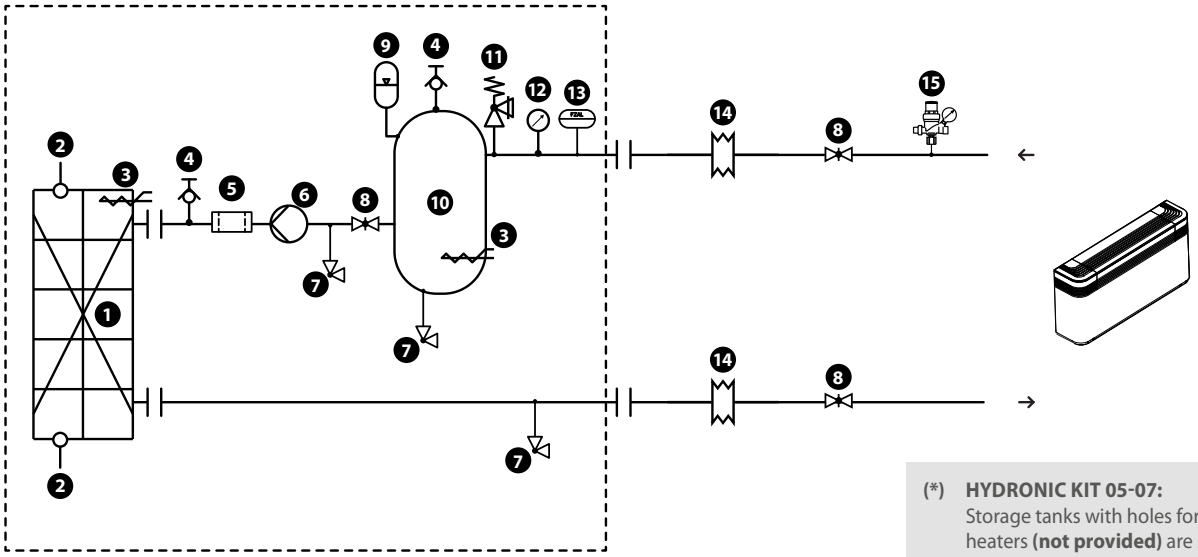
**HYDRAULIC COMPONENTS RECOMMENDED EXTERNAL TO UNIT (RESPONSIBILITY OF THE INSTALLER)**

**14** Anti-vibration joints
**15** Automatic Filling Valve
**8** Cut-off valve

**WATER FEATURES**

| System: Chiller with plate heat exchanger | |
|---|---|
| PH | 7.5-9 |
| Electric conductivity | 10-500µS/cm |
| Total hardness | 4.5-8.5°dH |
| Temperature | < 65°C |
| Oxygen content | < 0.1 ppm |
| Max. glycol amount | 50% |
| Phosphates (PO4) | < 2ppm |
| Manganese (Mn) | < 0.05 ppm |
| Iron (Fe) | < 0.3 ppm |
| Alkalinity (HCO3) | 70 - 300 ppm |
| Chloride ions (Cl-) | < 50 ppm |
| Sulphate ions (SO4) | < 50 ppm |
| Sulphide ion (S) | none |
| Ammonium ions (NH4) | none |
| Silica (SiO2) | < 30ppm |

**Unit** **Components recommended**




**(*) HYDRONIC KIT 05-07:**
Storage tanks with holes for supplementary heaters **(not provided)** are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

***Do not fill up the hydraulic system by glycol near the suction of the pump. High concentration of glycol could stuck the pump. Do not use the pump to mix water and glycol***

## INTERNAL AND EXTERNAL HYDRAULIC CIRCUIT ECL H 02-04-06-08 (WITH DOUBLE PUMP + STORAGE TANK) (*)

**COMPONENTS PROVIDED AS STANDARD**

**1** Plate heat exchanger
**2** Water temperature sensors
**3** Antifreeze electric heater (standard in the heat exchanger and storage tank)
**4** Water filter
**5** Air vent valve
**6** One way valve
**7** Pump
**8** Drain valve
**9** Cut-off valve
**10** System buffer tank
**11** Expansion Tank
**12** Safety valve
**13** Pressure gauges
**14** Flow switch

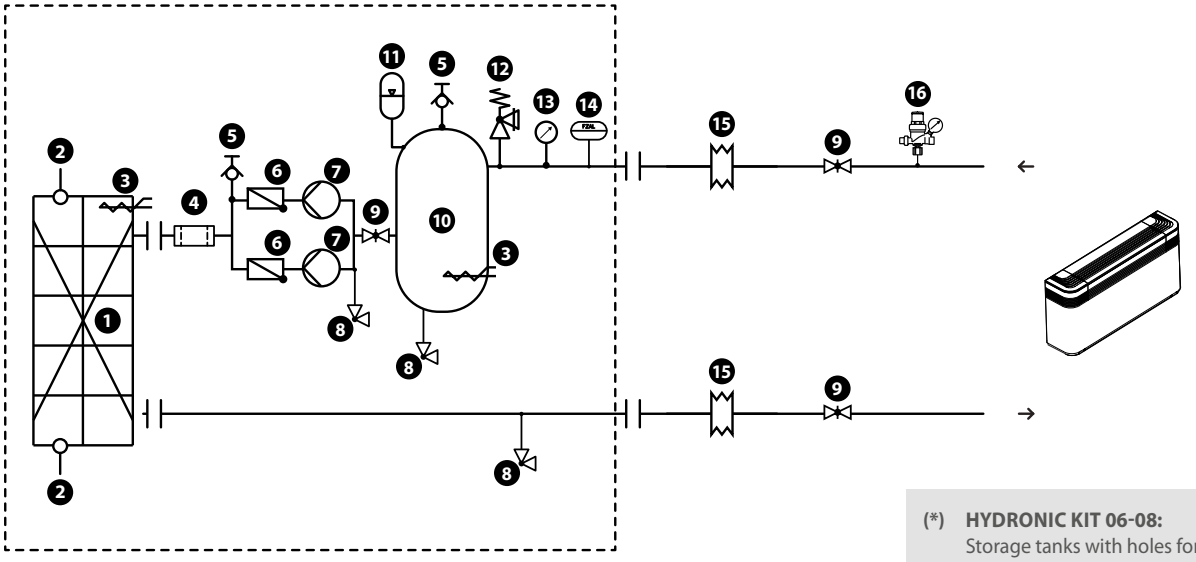
**HYDRAULIC COMPONENTS RECOMMENDED EXTERNAL TO UNIT (RESPONSIBILITY OF THE INSTALLER)**

**9** Cut-off valve
**15** Anti-vibration joints
**16** Automatic Filling Valve

**WATER FEATURES**

| System: Chiller with plate heat exchanger | |
|---|---|
| PH | 7.5-9 |
| Electric conductivity | 10-500µS/cm |
| Total hardness | 4.5-8.5°dH |
| Temperature | < 65°C |
| Oxygen content | < 0.1 ppm |
| Max. glycol amount | 50% |
| Phosphates (PO4) | < 2ppm |
| Manganese (Mn) | < 0.05 ppm |
| Iron (Fe) | < 0.3 ppm |
| Alkalinity (HCO3) | 70 - 300 ppm |
| Chloride ions (Cl-) | < 50 ppm |
| Sulphate ions (SO4) | < 50 ppm |
| Sulphide ion (S) | none |
| Ammonium ions (NH4) | none |
| Silica (SiO2) | < 30ppm |

**Unit** **Components recommended**



**(*) HYDRONIC KIT 06-08:**
Storage tanks with holes for supplementary heaters **(not provided)** are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

***Do not fill up the hydraulic system by glycol near the suction of the pump. High concentration of glycol could stuck the pump. Do not use the pump to mix water and glycol***

## INTERNAL AND EXTERNAL HYDRAULIC CIRCUIT ECL H 09 (DOUBLE LOOP)

**COMPONENTS PROVIDED AS STANDARD**

**1** Plate heat exchanger
**2** Water temperature sensors
**3** Antifreeze electric heater (standard in the heat exchanger and storage tank)
**4** Flow switch
**5** Water filter
**6** Pump
**7** Drain valve
**8** Cut-off valve
**9** Expansion Tank
**10** Air vent valve
**11** System buffer tank
**12** Safety valve
**13** Pressure gauges

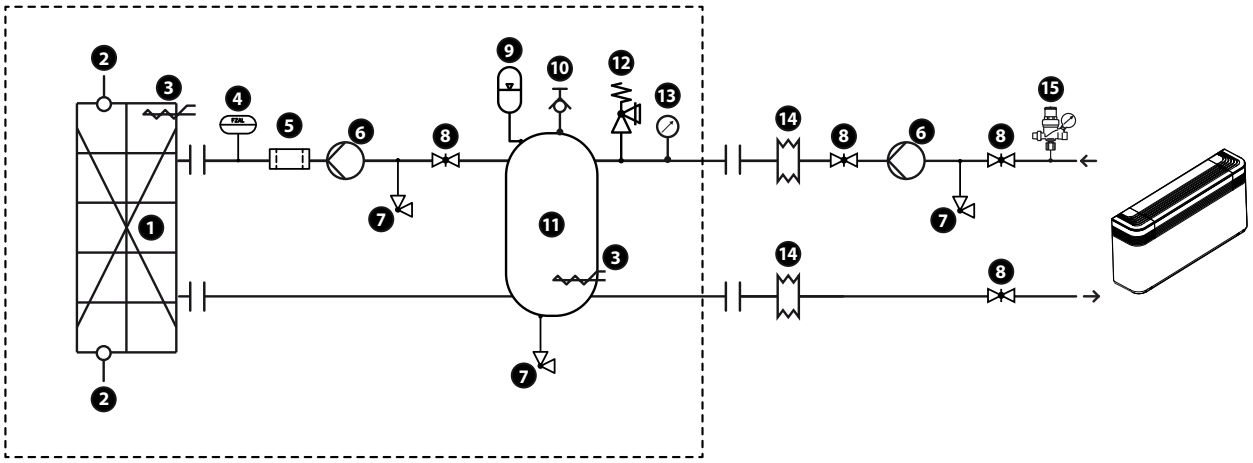
**HYDRAULIC COMPONENTS RECOMMENDED EXTERNAL TO UNIT (RESPONSIBILITY OF THE INSTALLER)**

**6** Pump
**7** Drain valve
**8** Cut-off valve
**14** Anti-vibration joints
**15** Automatic Filling Valve

**WATER FEATURES**

| System: Chiller with plate heat exchanger | |
|---|---|
| PH | 7.5-9 |
| Electric conductivity | 10-500µS/cm |
| Total hardness | 4.5-8.5°dH |
| Temperature | < 65°C |
| Oxygen content | < 0.1 ppm |
| Max. glycol amount | 50% |
| Phosphates (PO4) | < 2ppm |
| Manganese (Mn) | < 0.05 ppm |
| Iron (Fe) | < 0.3 ppm |
| Alkalinity (HCO3) | 70 - 300 ppm |
| Chloride ions (Cl-) | < 50 ppm |
| Sulphate ions (SO4) | < 50 ppm |
| Sulphide ion (S) | none |
| Ammonium ions (NH4) | none |
| Silica (SiO2) | < 30ppm |

**Unit** **Components recommended**




***Do not fill up the hydraulic system by glycol near the suction of the pump. High concentration of glycol could stuck the pump. Do not use the pump to mix water and glycol***

## VARIABLE FLOW RATE SYSTEMS ON THE PRIMARY CIRCUIT WITH HYDRONIC KITS W1-W2-W3-W4

Configurations W1-W2-W3-W4 are designed for single-ring systems with a variable flow rate.

**BENEFITS**

This type of system produces:

- a simplified hydraulic circuit
- lower electricity consumption for pumping

**WHAT THEY INVOLVE**

These options include as standard: **(fig.1)**

- Pumping units with high or low head, with the pumps driven by an inverter
- Differential pressure transducer and absolute pressure transducers: pressure sensors for ensure flow rate modulation based on the pressure difference measured between two precise points indicated on the hydraulic diagram
- Bypass branch with a motorised valve to ensure the minimum flow rate required by the heat exchanger in all operating conditions

**HOW THEY WORK**

The system that this solution is applied to must have a certain number of terminals with 2-way valves (On-Off or Modulating) that vary the flow rate during adjusted operation.

During the system design phase, make sure there are an adequate number of terminals with 3-way valves (not subject to flow rate variation on the supply), to guarantee the minimum flow rate on the circuit compatible with the machine limits.

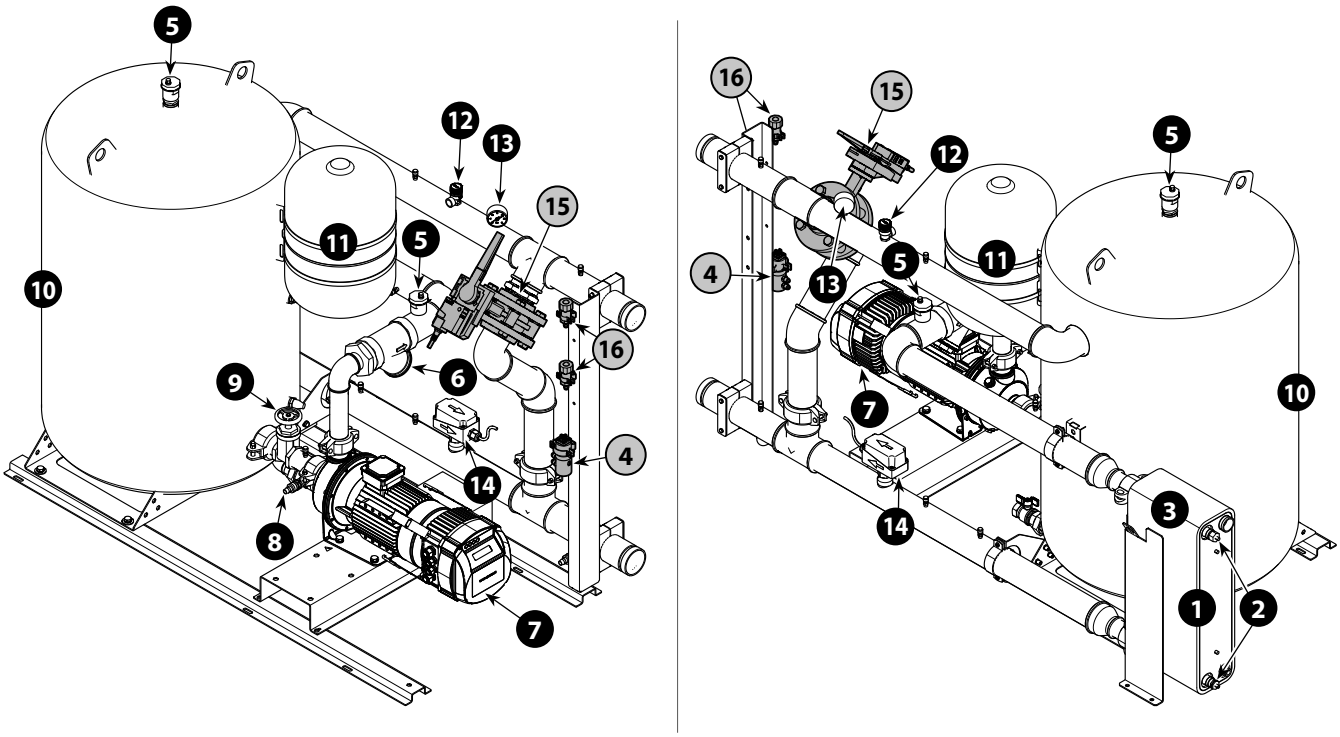
The system automatically modulates the number of pump rotations - and therefore the water flow rate - on the basis of the pressure difference measured on the unit (and resulting from the opening or closure of the 2-way valves).

IT is essential to guarantee terminal regulation systems that, during modulation, envisage an overall flow rate variation less than 10% per minute of the current flow rate. **(fig.2)**

Be sure to respect the minimum water content (refer to the **"System water content"** chapter).

**Hydraulic circuit configuration W3**

**fig. 1**




**COMPONENTS PROVIDED AS STANDARD**

| | |
|---|---|
| **1** | Plate heat exchanger |
| **2** | Water temperature sensors |
| **3** | Antifreeze electric heater (standard in the heat exchanger and storage tank) |
| **4** | Differential pressure transducer |
| **5** | Air vent valve |
| **6** | Water filter |
| **7** | Pump |
| **8** | Drain valve |
| **9** | Cut-off valve |
| **10** | System buffer tank |
| **11** | Expansion Tank |
| **12** | Safety valve |
| **13** | Pressure gauges |
| **14** | Flow switch |
| **15** | Motorized by-pass valve |
| **16** | Pressure transducer |

***The differential pressure transducer (4) is located on the rear of the unit, near the two absolute pressure transducers (16), so it can be accessed for maintenance. The differential pressure transducer (4) is the starting point for the capillaries that are then connected to the evaporator inlet and outlet, as indicated in the hydraulic diagrams on the following pages.***

| System side heat exchanger | vers | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Min. flow rate | ° | l/h | - | - | - | - | 7853 | 8588 | 9986 | 10742 | 12999 | 14623 | 16118 | 9938 | 11494 | 13767 | 15558 |
| | L | l/h | 4487 | 5099 | 5792 | 6727 | 7617 | 8315 | 9600 | 10270 | 12656 | 14162 | 15534 | 9510 | 10888 | 13339 | 14979 |
| | A | l/h | - | - | - | - | 8342 | 9165 | 10638 | 11503 | 14108 | 15363 | 17203 | 10603 | 12231 | 14462 | 16349 |
| | E | l/h | 4765 | 5348 | 6026 | 6992 | 8090 | 8861 | 10249 | 11018 | 13715 | 14846 | 16500 | 10127 | 11909 | 13973 | 15712 |
| Max. flow rate | ° | l/h | - | - | - | - | 23962 | 26192 | 30633 | 33706 | 39324 | 44212 | 49228 | 31959 | 35518 | 42567 | 46729 |
| | L | l/h | 14247 | 16252 | 18652 | 21015 | 23962 | 26192 | 30633 | 33706 | 39324 | 44212 | 49228 | 31959 | 35518 | 42567 | 46729 |
| | A | l/h | - | - | - | - | 24865 | 27471 | 30790 | 34218 | 40670 | 44531 | 49714 | 32127 | 37020 | 42699 | 47081 |
| | E | l/h | 14610 | 16881 | 18984 | 21571 | 24865 | 27471 | 30790 | 34218 | 40670 | 44531 | 49714 | 32127 | 37020 | 42699 | 47081 |

| Permitted system flow rate variation (options W1-W2-W3-W4) | Less than 10% per minute of the current flow rate * |
|---|---|

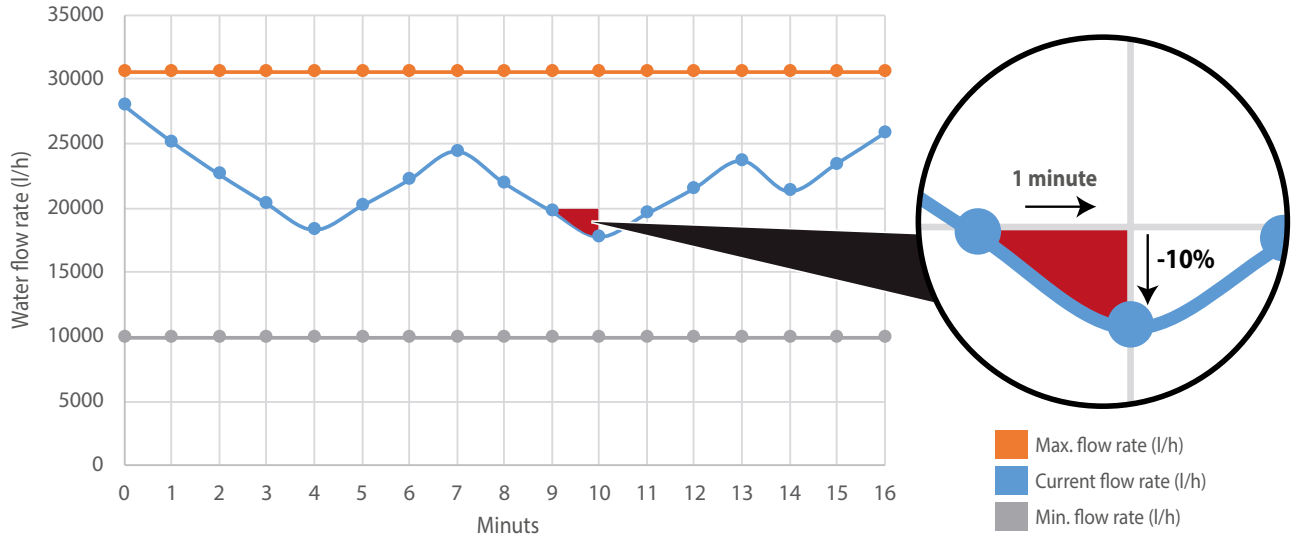
*** Example**

**fig. 2**

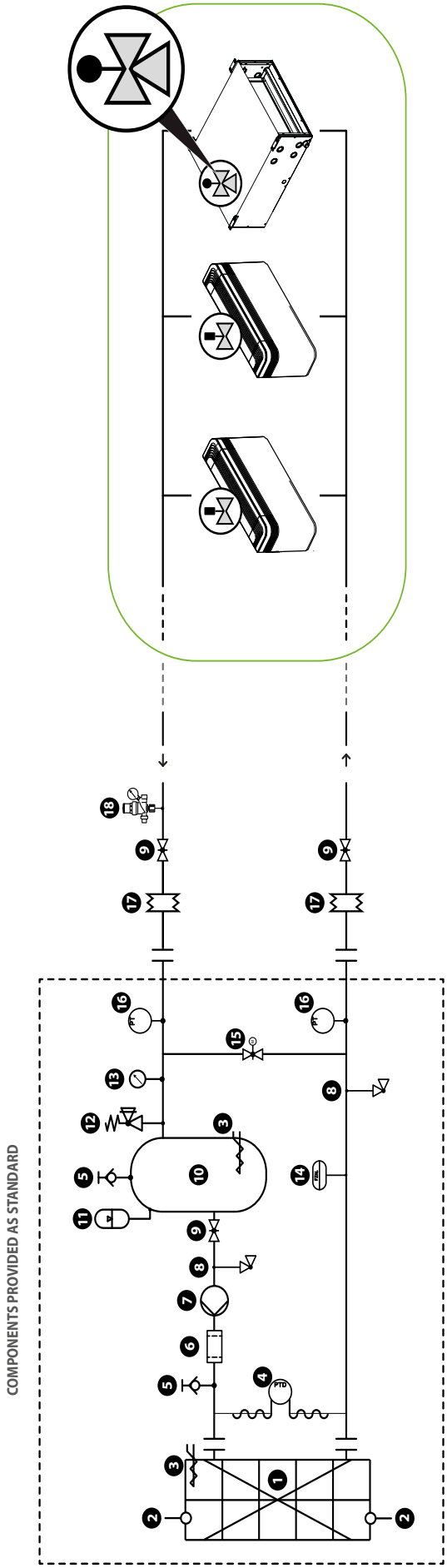
| Ecl 0602 ° | | | |
|---|---|---|---|
| Min. flow rate | 9986 | | |
| Current flow rate (l/h) | 12000 | | time: 3pm |
| Flow rate variation (l/h) | (- 10%) | (+ 10%) | |
| | 10800 | 13200 | time: 3.01pm |
| Max. flow rate | 30633 | | |

| Ecl 0602 ° | | | |
|---|---|---|---|
| Min. flow rate | 9986 | | |
| Current flow rate (l/h) | 20000 | | time: 4pm |
| Flow rate variation (l/h) | (- 10%) | (+ 10%) | |
| | 18000 | 22000 | time: 4.01pm |
| Max. flow rate | 30633 | | |

| Ecl 0602 ° | | | |
|---|---|---|---|
| Min. flow rate | 9986 | | |
| Current flow rate (l/h) | 30000 | | time: 5pm |
| Flow rate variation (l/h) | (- 10%) | (+ 10%) | |
| | 27000 | 33000 | time: 5.01pm |
| Max. flow rate | 30633 | | |



## INTERNAL AND EXTERNAL HYDRAULIC CIRCUIT ECL H W1-W3 (WITH PUMP + STORAGE TANK + VARIABLE SPEED INVERTER)




***WARNING!***
***Make sure the system has an adequate number of terminals with 3-way valves, to guarantee at least the minimum water flow rate.***

***Do not fill up the hydraulic system by glycol near the suction of the pump.***
***High concentration of glycol could stuck the pump. Do not use the pump to mix water and glycol***

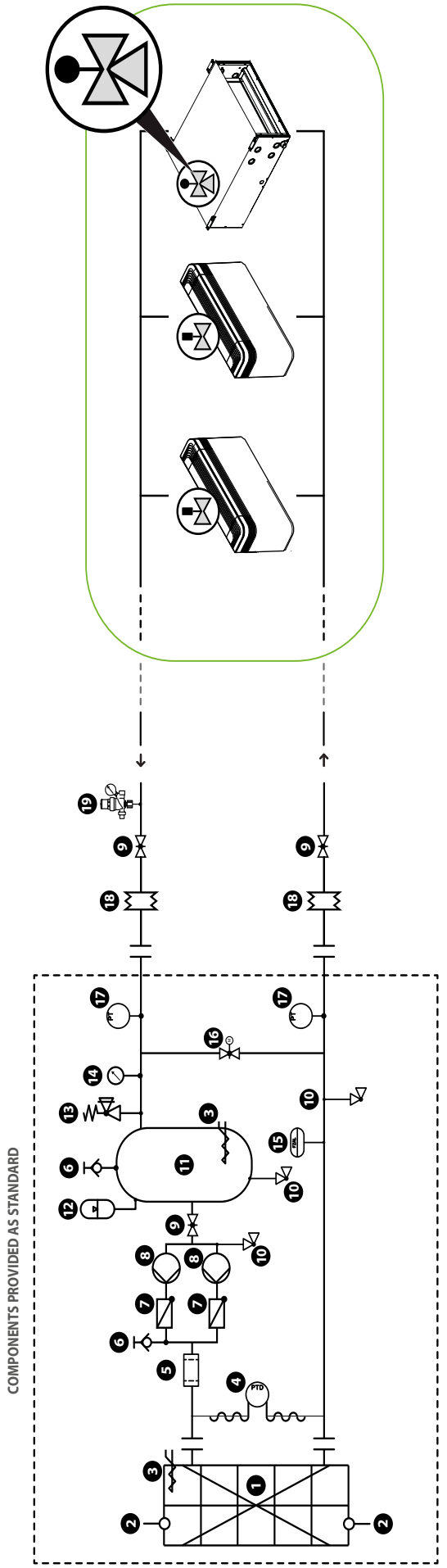
**COMPONENTS PROVIDED AS STANDARD**

1 Plate heat exchanger
2 Water temperature sensors
3 Antifreeze electric heater (standard in the heat exchanger and storage tank)
4 Differential pressure transducer
5 Air vent valve
6 Water filter
7 Pump
8 Drain valve
9 Cut-off valve
10 System buffer tank
11 Expansion Tank
12 Safety valve
13 Pressure gauges
14 Flow switch
15 Motorized by-pass valve
16 Pressure transducer

**HYDRAULIC COMPONENTS RECOMMENDED EXTERNAL TO UNIT (RESPONSIBILITY OF THE INSTALLER)**

17 Anti-vibration joints
18 Automatic Filling Valve
9 Cut-off valve

## INTERNAL AND EXTERNAL HYDRAULIC CIRCUIT ECL H W2-W4 (WITH DOUBLE PUMP + STORAGE TANK + VARIABLE SPEED INVERTER)




**COMPONENTS PROVIDED AS STANDARD**

1 Plate heat exchanger
2 Water temperature sensors
3 Antifreeze electric heater (standard in the heat exchanger and storage tank)
4 Differential pressure transducer
5 Water filter
6 Air vent valve
7 One way valve
8 Pump
9 Cut-off valve
10 Drain valve
11 System buffer tank
12 Expansion Tank
13 Safety valve
14 Pressure gauges
15 Flow switch
16 Motorized by-pass valve
17 Pressure transducer

**HYDRAULIC COMPONENTS RECOMMENDED EXTERNAL TO UNIT (RESPONSIBILITY OF THE INSTALLER)**

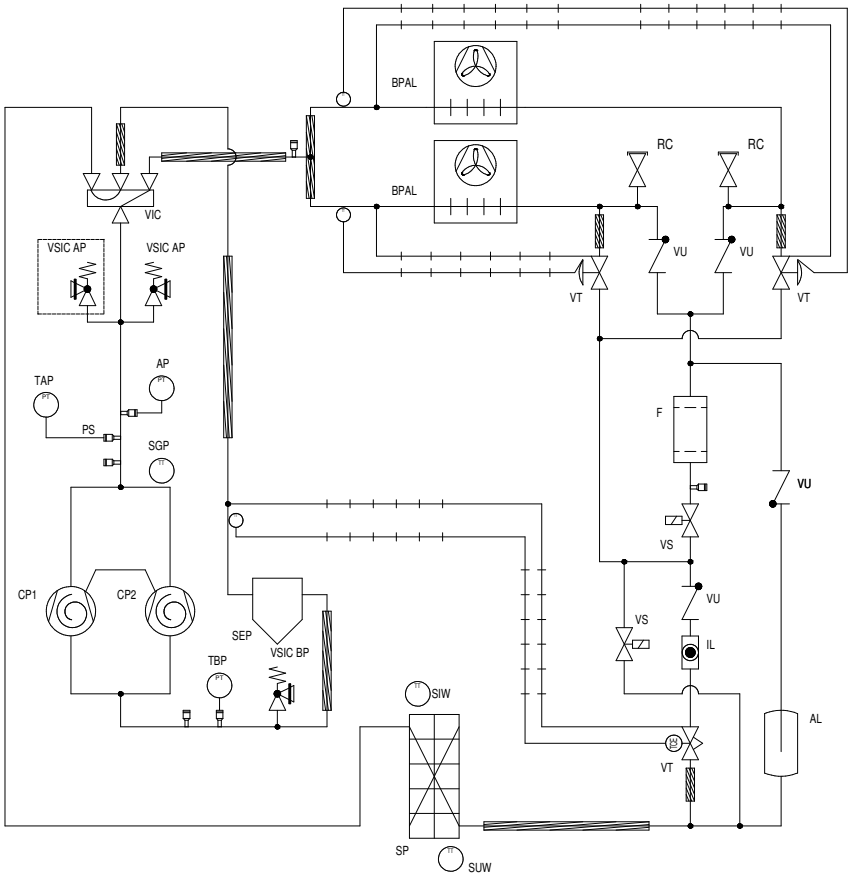
18 Anti-vibration joints
19 Automatic Filling Valve
9 Cut-off valve

***WARNING!***
***Make sure the system has an adequate number of terminals with 3-way valves, to guarantee at least the minimum water flow rate.***

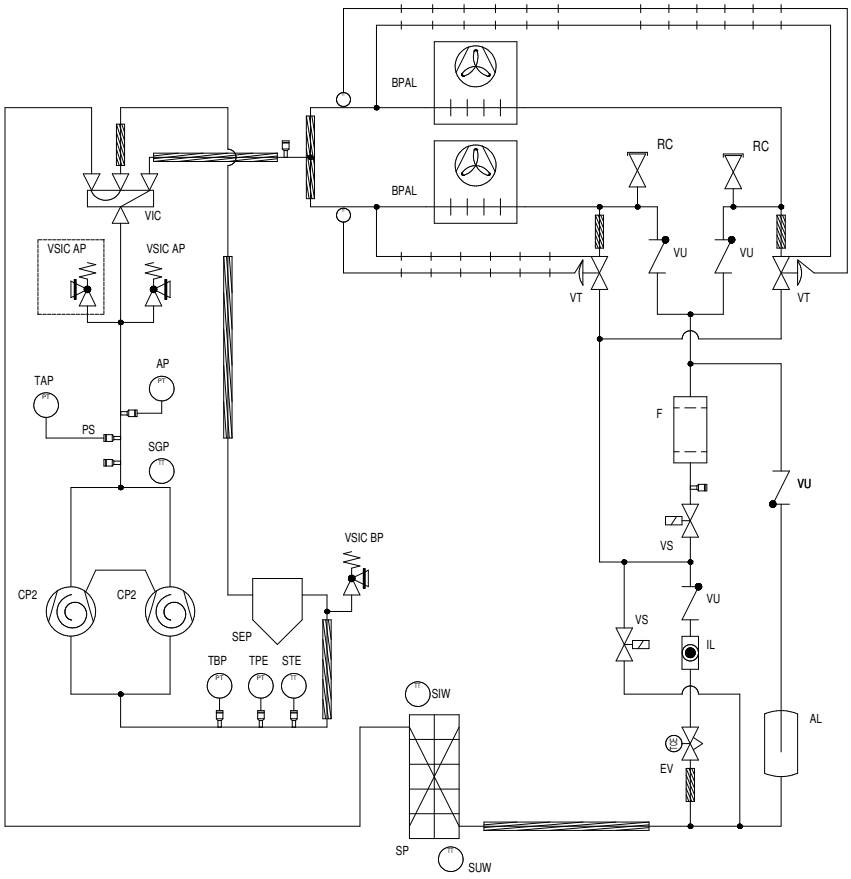
***Do not fill up the hydraulic system by glycol near the suction of the pump. High concentration of glycol could stuck the pump. Do not use the pump to mix water and glycol***

## REFRIGERANT CIRCUIT

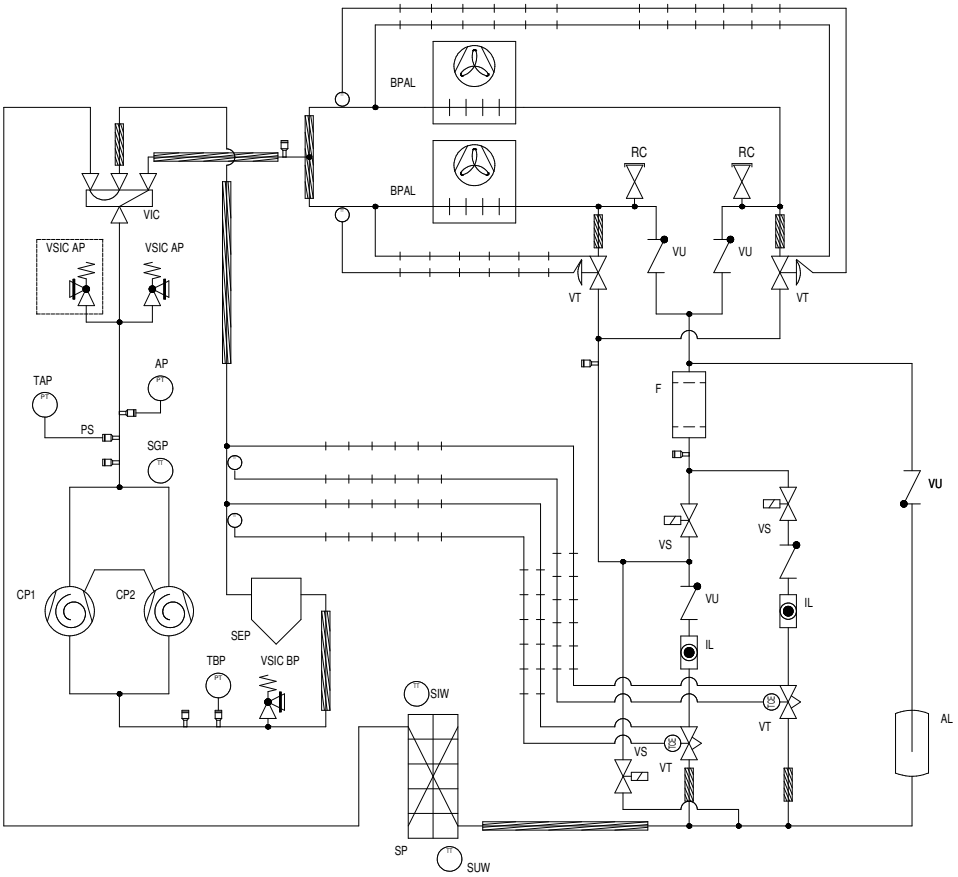
### ECL H 0282-0752 - VERSION WITH MECHANICAL THERMOSTATIC VALVE (°) / HEAT PUMP (H) / WITHOUT HEAT RECOVERY (°)



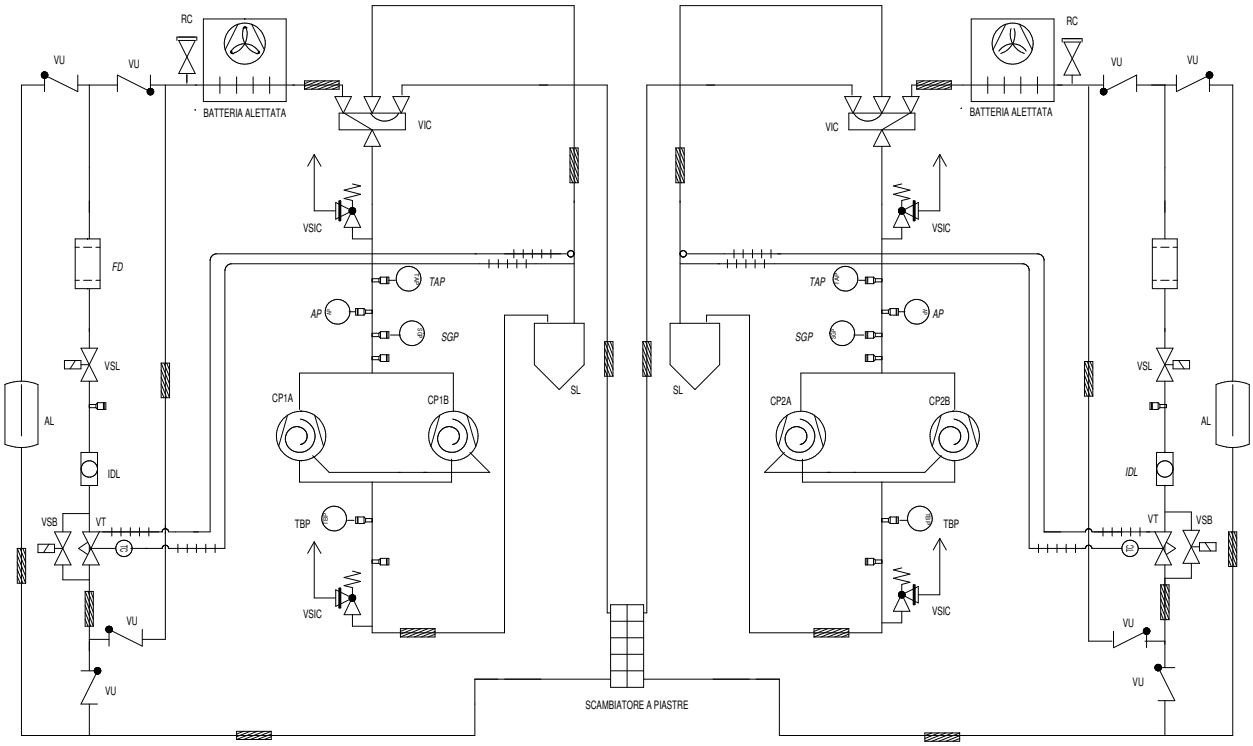

### ECL H 0282-0752 - VERSION WITH ELECTRONIC THERMOSTATIC VALVE (X - Z) / HEAT PUMP (H) / WITHOUT HEAT RECOVERY (°)



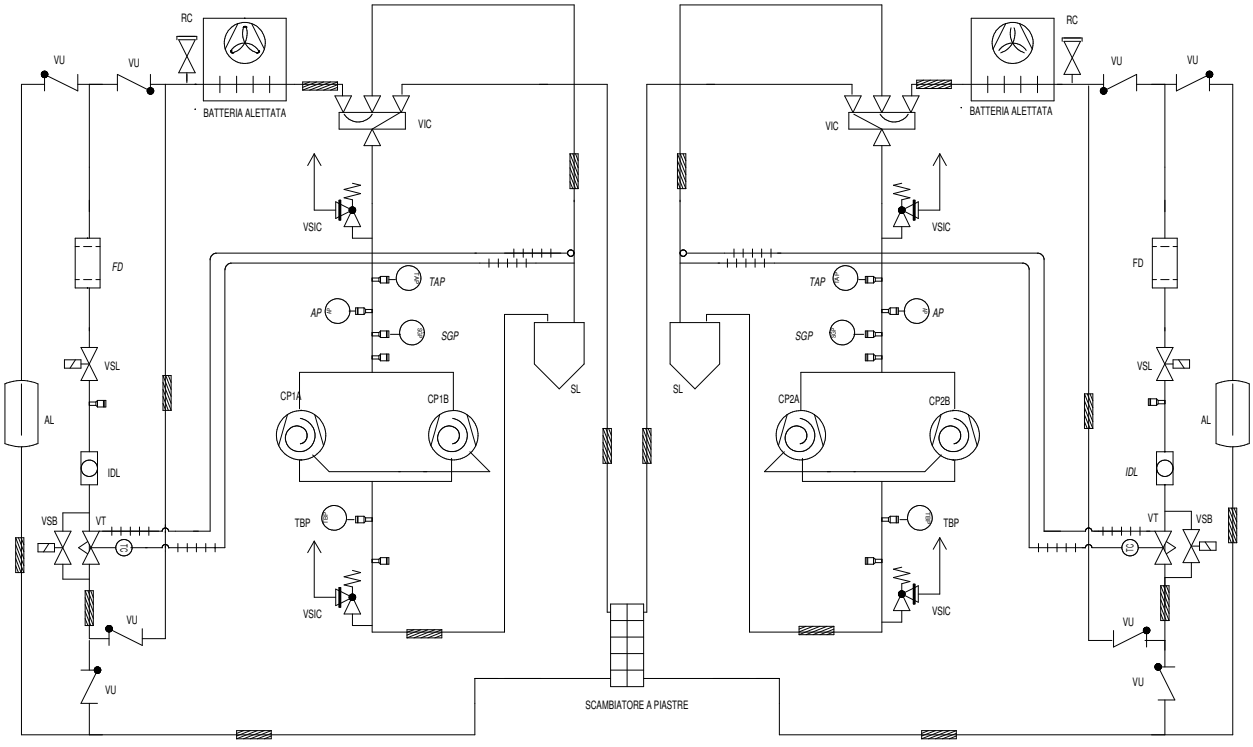
**ECL H 0282-0752 - VERSION WITH DOUBLE MECHANICAL THERMOSTATIC VALVE (Y) / HEAT PUMP (H) / WITHOUT HEAT RECOVERY (°)**



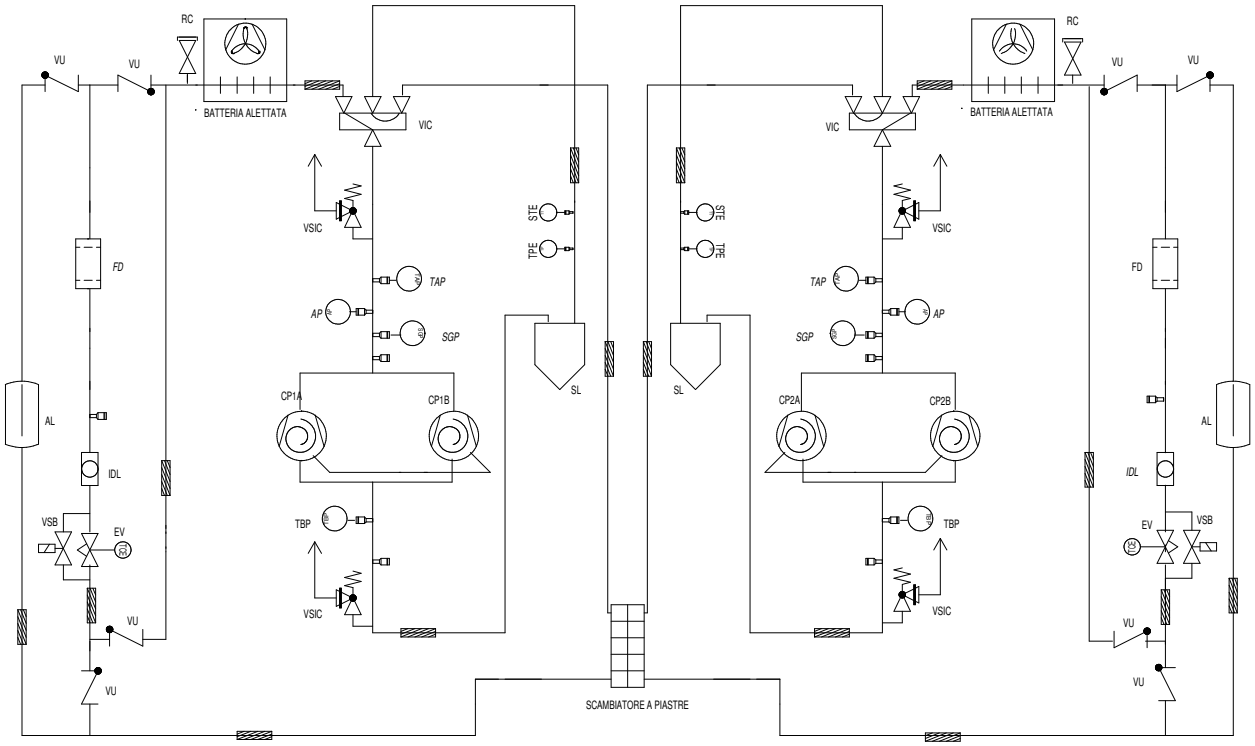
## ECL H 0604-0754 - VERSION WITH MECHANICAL THERMOSTATIC VALVE (°) / COOLING MODE / WITHOUT HEAT RECOVERY (°)



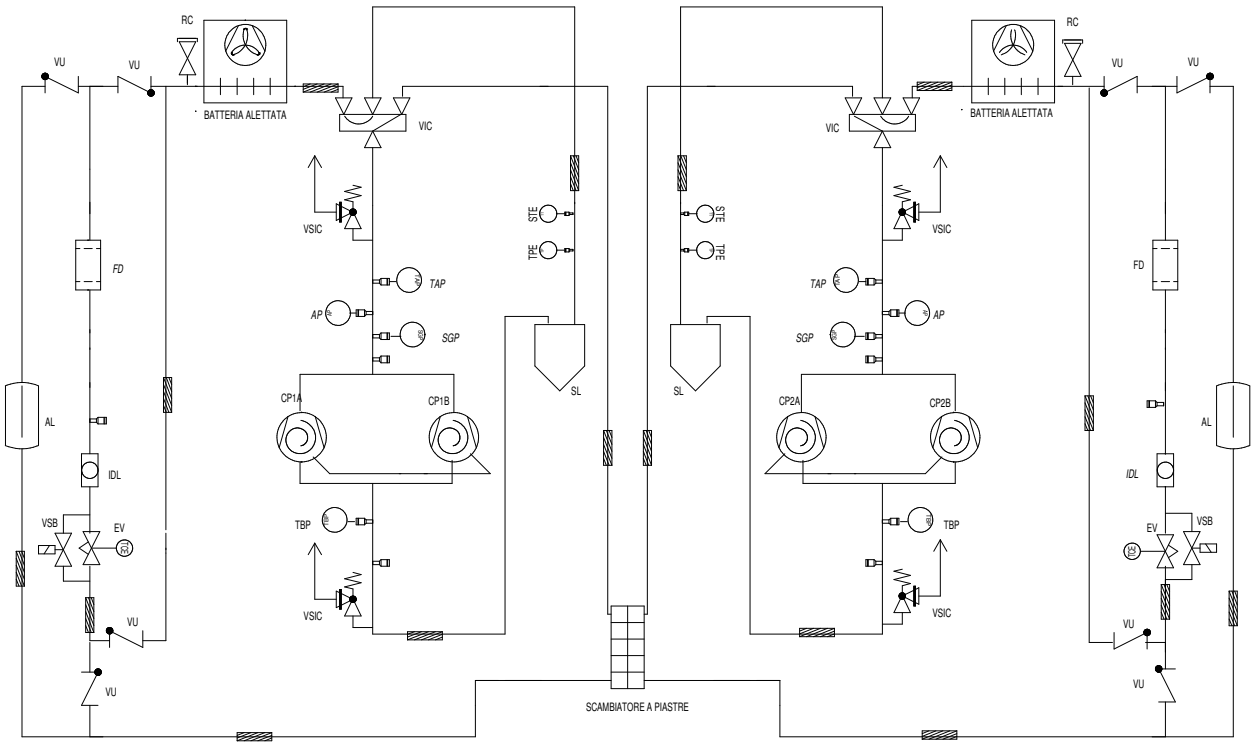

## ECL H 0604-0754 - VERSION WITH MECHANICAL THERMOSTATIC VALVE (°) / HEAT PUMP (H) / WITHOUT HEAT RECOVERY (°)



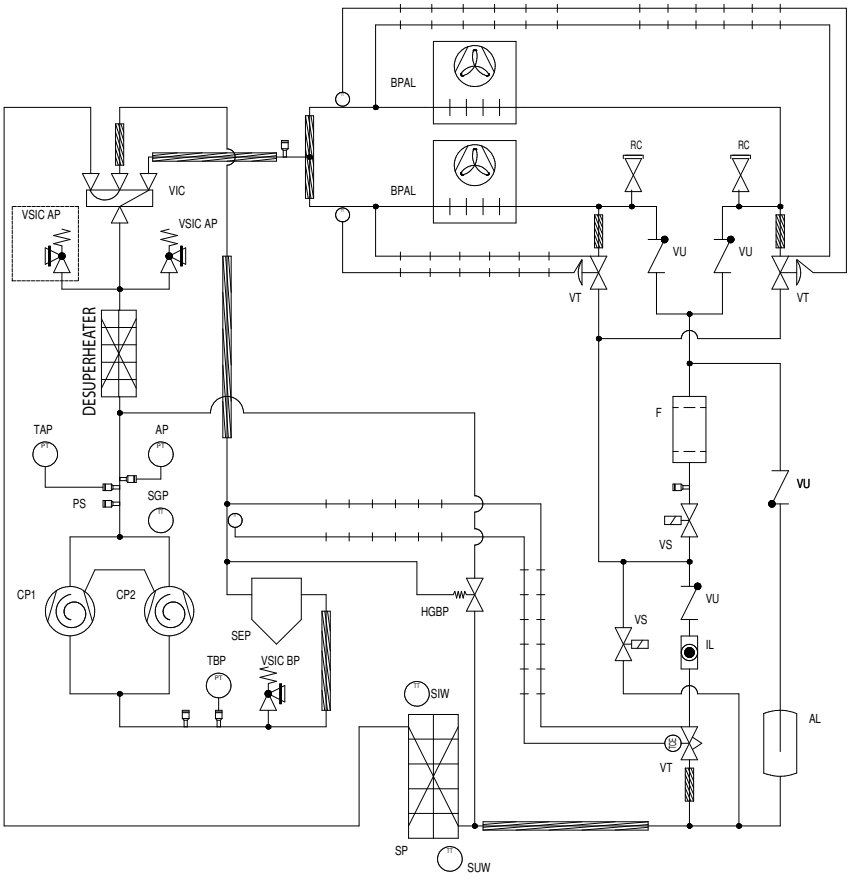
## ECL H 0604-0754 - VERSION WITH ELECTRONIC THERMOSTATIC VALVE (X - Z) / COOLING MODE / WITHOUT HEAT RECOVERY (°)



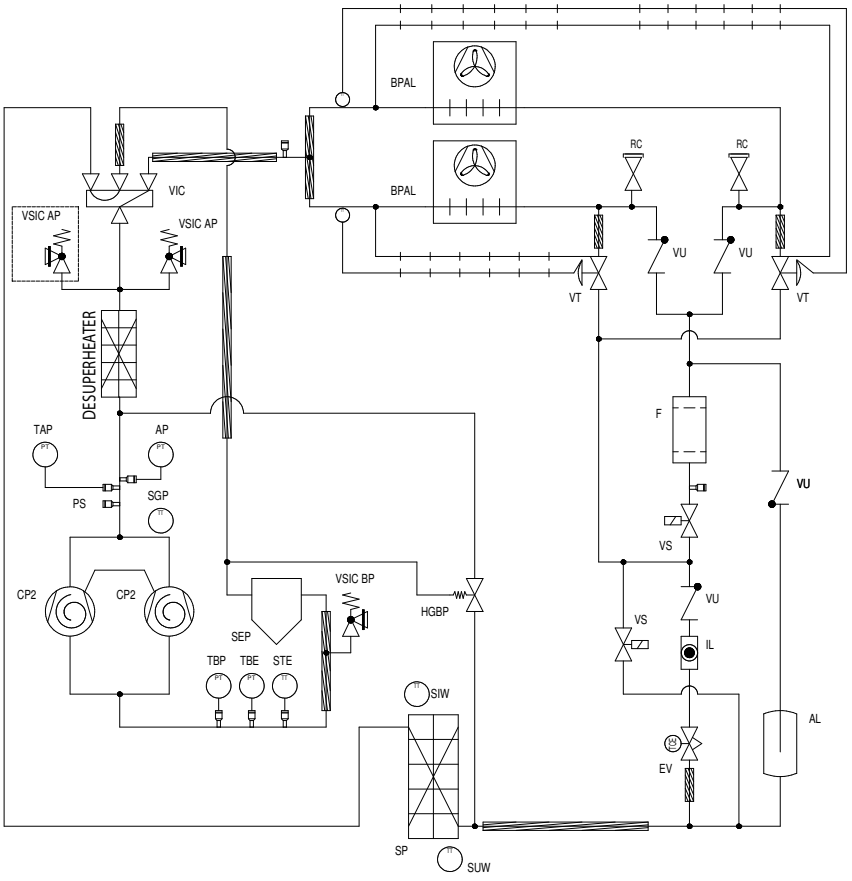

## ECL H 0604-0754 - VERSION WITH ELECTRONIC THERMOSTATIC VALVE (X - Z) / HEAT PUMP (H) / WITHOUT HEAT RECOVERY (°)



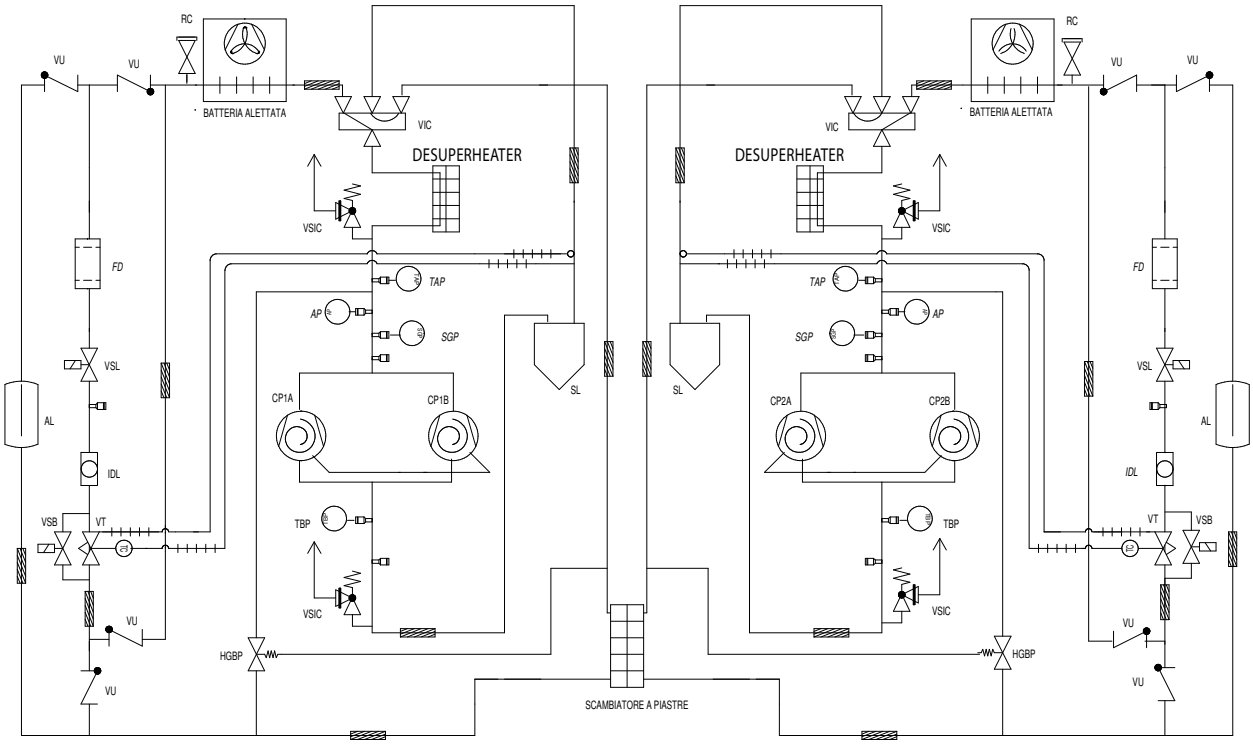
**ECL H 0282-0752 - VERSION WITH MECHANICAL THERMOSTATIC VALVE (°) / HEAT PUMP (H) / WITH DESUPERHEATER (D)**




**ECL H 0282-0752 - VERSION WITH ELECTRONIC THERMOSTATIC VALVE (X - Z) / HEAT PUMP (H) / WITH DESUPERHEATER (D)**



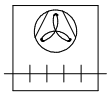
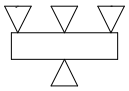
**ECL H 0604-0754 - VERSION WITH MECHANICAL THERMOSTATIC VALVE (°) / HEAT PUMP (H) / WITH DESUPERHEATER (D)**



***Key:***

| SYMBOL | SYMBOL NAME | FUNCTION |
|---|---|---|
|  | SP | Plate heat exchanger |
|  | CP | Scroll compressors |
|  | LINEE-REGOL | Adjustment line |
|  | PRESA-SERVIZIO | Pressure plug |
|  | TUBI-ISOL | Insulated piping |
|  | RUG | Tap |
|  | F | Filter drier |
|  | VSIC AP/BP | Safety valve |
|  | VSL | Solenoid valve |
|   | EV1 | Electronic thermostatic expansion valve |
|  | VT | Mechanical thermostatic expansion valve |
|  | IL | Liquid indicator |

***Key:***

| SYMBOL | SYMBOL NAME | FUNCTION |
|---|---|---|
|  | BPAL | Heat exchanger with finned coil with fan |
|  | VBGC | Hot gas injection valve |
|   | AP | High pressure swit |
|   | TAP / TBP | Low/High pressure transducer |
|   | TPE | Electronic expansion valve pressure transducer |
|   | SIW / SUW | Water temperature sensors (IN/OUT) |
|   | SGA / SGP | Suction/Pressing gas temperature probe |
|   | STE | Electronic expansion valve temperature probe |
|  | VU | One way valve |
|  | RL | Liquid accumulator |
|  | RC | Loading cock |
|  | VIC | Cycle inverter valve 4 way |

## ACCESSORIES

**AER485P1**
RS-485 interface for supervision systems with MODBUS protocol.

**AERNET**
The device makes it possible to control the remote management and monitoring of a chiller by means of a PC, smartphone or tablet with Cloud connection. AERNET acts as Master while each connected unit is configured as Slave up to a maximum of 6 units;with a simple click, you can also save on your own terminal a log file with all data of the connected units for possible post-analysis.

**PGD1**
Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms.

**MULTICHILLER_EVO**
Control system to control, activate and deactivate the individual chillers in a system in which several units are installed in parallel to guarantee constant delivery to the heat exchangers.

**DCPX**
Device for the control of the condensing temperature, with continuous modulation of the fans' speed through a pressure transducer. **Is fitted as standard on silenced version (from size 0502 to 0754) and with desuperheater**

**VT**
Anti-vibrations group.

**ACCESSORIES INSTALLED IN THE FACTORY**

**C-TOUCH**
State-of-the-art 7" touchscreen keypad for easy navigation through the various screens, where you can modify the operating parameters and view the real time trend of certain values in graphic format.

**DRE ECL**
Current reduction electronic device, available only for power supplies 400V/3/50Hz

**RIF**
Current phase advancer, connected in parallel to the motor, allows a 10% reduction of input current.

**GP**
Protections grilles for the coils and the cooling circuit.

**COMPATIBILITY** with **VMF SYSTEM**
For further information on system, refer to specific documentation.

## COMPATIBILITY OF ACCESSORIES

| Mod. ECL | vers. | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **AER485P1** | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| **AERNET** | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| **PGD1** | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| **MULTICHILLER_EVO** | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| **DCPX** standard fans option (°) | ° | - | - | - | - | 142 | 142 | 142 | 142 | 143 | 143 | 143 | 142 | 142 | 143 | 143 |
| | **L** | 140 | 140 | 140 | 140 | standard | standard | standard | standard | standard | standard | standard | standard | standard | standard | standard |
| | **A** | - | - | - | - | 142 | 142 | 142 | 142 | 143 | 143 | 143 | 142 | 143 | 143 | 143 |
| | **E** | 140 | 140 | 140 | 140 | standard | standard | standard | standard | standard | standard | standard | standard | standard | standard | standard |
| **DCPX** enlarged fans option (M) | ° | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | **L** | 141 | 141 | 141 | 141 | - | - | - | - | - | - | - | - | - | - | - |
| | **A** | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | **E** | 141 | 141 | 141 | 141 | - | - | - | - | - | - | - | - | - | - | - |
| **VT** hydronic kit 00-P1-P2-P3-P4-I1-I2-I3-I4 | ° | - | - | - | - | 11 | 11 | 11 | 11 | 22 | 22 | 22 | 11 | 11 | 22 | 22 |
| | **L** | 17 | 17 | 17 | 17 | 11 | 11 | 11 | 11 | 22 | 22 | 22 | 11 | 11 | 22 | 22 |
| | **A** | - | - | - | - | 11 | 11 | 11 | 11 | 22 | 22 | 22 | 11 | 22 | 22 | 22 |
| | **E** | 17 | 17 | 17 | 17 | 11 | 11 | 11 | 11 | 22 | 22 | 22 | 11 | 22 | 22 | 22 |
| **VT** hydronic kit 02-03-04-05-06-07-08-K1-K2-K3-K4-W1-W2-W3-W4 | ° | - | - | - | - | 11 | 11 | 11 | 11 | 22 | 22 | 22 | 11 | 11 | 22 | 22 |
| | **L** | 13 | 13 | 13 | 13 | 11 | 11 | 11 | 11 | 22 | 22 | 22 | 11 | 11 | 22 | 22 |
| | **A** | - | - | - | - | 11 | 11 | 11 | 11 | 22 | 22 | 22 | 11 | 22 | 22 | 22 |
| | **E** | 13 | 13 | 13 | 13 | 11 | 11 | 11 | 11 | 22 | 22 | 22 | 11 | 22 | 22 | 22 |

| ***Accessories installed in the factory*** | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **C-TOUCH** | | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| **DREECL** (1) | | 282 | 302 | 332 | 352 | 502 | 552 | 602 | 652 | 682 | 702 | 752 | 604 | 654 | 704 | 754 |
| **RIF** (1) | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
| **GP** * | ° | - | - | - | - | 2 (x2) | 2 (x2) | 2 (x2) | 2 (x2) | 2 (x3) | 2 (x3) | 2 (x3) | 2 (x2) | 2 (x2) | 2 (x3) | 2 (x3) |
| | **L** | 3 | 3 | 4 | 4 | 2 (x2) | 2 (x2) | 2 (x2) | 2 (x2) | 2 (x3) | 2 (x3) | 2 (x3) | 2 (x2) | 2 (x2) | 2 (x3) | 2 (x3) |
| | **A** | - | - | - | - | 2 (x2) | 2 (x2) | 2 (x2) | 2 (x2) | 2 (x3) | 2 (x3) | 2 (x3) | 2 (x2) | 2 (x3) | 2 (x3) | 2 (x3) |
| | **E** | 3 | 4 | 4 | 4 | 2 (x2) | 2 (x2) | 2 (x2) | 2 (x2) | 2 (x3) | 2 (x3) | 2 (x3) | 2 (x2) | 2 (x3) | 2 (x3) | 2 (x3) |

(1) Available only with power supply 400V/3N/50Hz. For more information please contact the head office.
* (x2) (x3) the number in brackets indicates the quantity to order

## PERFORMANCE SPECIFICATIONS

### ECL H (°-L-A-E)

| *Size ECL H* | Ver. | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Performance in cooling mode*** | | | | | | | | | | | | | | | | | |
| Cooling capacity | ° | kW | - | - | - | - | 91,2 | 99,7 | 116,0 | 124,7 | 151,0 | 169,9 | 187,2 | 115,4 | 133,4 | 159,9 | 180,8 |
| | **L** | kW | 52,1 | 59,2 | 67,3 | 78,1 | 88,5 | 96,5 | 111,5 | 119,3 | 147,0 | 164,5 | 180,5 | 110,4 | 126,4 | 154,9 | 174,0 |
| | **A** | kW | - | - | - | - | 96,9 | 106,5 | 123,6 | 133,6 | 163,9 | 178,5 | 199,9 | 123,1 | 142,1 | 168,0 | 190,0 |
| | **E** | kW | 55,4 | 62,1 | 70,0 | 81,2 | 94,0 | 103,0 | 119,1 | 128,0 | 159,4 | 172,5 | 191,7 | 117,6 | 138,3 | 162,3 | 182,6 |
| Input power | ° | kW | - | - | - | - | 33,5 | 37,5 | 42,6 | 47,8 | 51,7 | 60,0 | 69,8 | 46,2 | 51,2 | 58,0 | 65,7 |
| | **L** | kW | 19,5 | 22,0 | 24,8 | 29,5 | 34,1 | 38,3 | 44,1 | 49,9 | 52,3 | 61,5 | 72,5 | 48,4 | 54,2 | 59,2 | 67,8 |
| | **A** | kW | - | - | - | - | 32,3 | 36,1 | 39,5 | 45,0 | 50,7 | 57,0 | 66,5 | 43,3 | 47,2 | 55,4 | 62,8 |
| | **E** | kW | 18,5 | 21,0 | 23,7 | 28,3 | 32,8 | 36,9 | 40,7 | 46,9 | 51,4 | 58,5 | 69,3 | 44,7 | 47,7 | 56,7 | 64,9 |
| System side water flow rate | ° | l/h | - | - | - | - | 15705 | 17176 | 19972 | 21483 | 25997 | 29246 | 32236 | 19875 | 22987 | 27533 | 31116 |
| | **L** | l/h | 8974 | 10197 | 11583 | 13454 | 15234 | 16629 | 19199 | 20540 | 25312 | 28323 | 31067 | 19020 | 21776 | 26677 | 29958 |
| | **A** | l/h | - | - | - | - | 16684 | 18330 | 21276 | 23006 | 28215 | 30726 | 34406 | 21205 | 24461 | 28924 | 32697 |
| | **E** | l/h | 9530 | 10696 | 12052 | 13983 | 16180 | 17722 | 20498 | 22036 | 27430 | 29691 | 33000 | 20254 | 23818 | 27946 | 31424 |
| System side pressure drops | ° | kPa | - | - | - | - | 35 | 42 | 37 | 43 | 50 | 61 | 74 | 44 | 44 | 65 | 59 |
| | **L** | kPa | 33 | 42 | 33 | 45 | 33 | 39 | 34 | 39 | 48 | 58 | 69 | 40 | 40 | 60 | 55 |
| | **A** | kPa | - | - | - | - | 26 | 31 | 32 | 38 | 44 | 52 | 56 | 38 | 50 | 50 | 54 |
| | **E** | kPa | 23 | 29 | 26 | 35 | 24 | 29 | 30 | 34 | 41 | 49 | 51 | 34 | 48 | 47 | 50 |
| EER | ° | W/W | - | - | - | - | 2,72 | 2,66 | 2,72 | 2,61 | 2,92 | 2,83 | 2,68 | 2,50 | 2,60 | 2,76 | 2,75 |
| | **L** | W/W | 2,67 | 2,69 | 2,71 | 2,65 | 2,60 | 2,52 | 2,53 | 2,39 | 2,81 | 2,68 | 2,49 | 2,28 | 2,33 | 2,62 | 2,57 |
| | **A** | W/W | - | - | - | - | 3,00 | 2,95 | 3,13 | 2,97 | 3,23 | 3,13 | 3,01 | 2,84 | 3,01 | 3,03 | 3,03 |
| | **E** | W/W | 3,00 | 2,96 | 2,95 | 2,86 | 2,86 | 2,79 | 2,92 | 2,73 | 3,10 | 2,95 | 2,77 | 2,63 | 2,90 | 2,87 | 2,81 |
| ***Performance in heating mode*** | | | | | | | | | | | | | | | | | |
| Heating capacity | ° | kW | - | - | - | - | 96,8 | 105,8 | 123,7 | 136,1 | 158,7 | 178,4 | 198,7 | 129,0 | 143,4 | 171,8 | 188,6 |
| | **L** | kW | 57,5 | 65,7 | 75,3 | 84,9 | 96,8 | 105,8 | 123,7 | 136,1 | 158,7 | 178,4 | 198,7 | 129,0 | 143,4 | 171,8 | 188,6 |
| | **A** | kW | - | - | - | - | 100,3 | 110,9 | 124,3 | 138,2 | 164,1 | 179,7 | 200,6 | 129,7 | 149,4 | 172,3 | 190,0 |
| | **E** | kW | 59,0 | 68,2 | 76,6 | 87,1 | 100,3 | 110,9 | 124,3 | 138,2 | 164,1 | 179,7 | 200,6 | 129,7 | 149,4 | 172,3 | 190,0 |
| Input power | ° | kW | - | - | - | - | 31,0 | 33,8 | 38,7 | 43,3 | 51,2 | 58,2 | 66,0 | 42,7 | 47,7 | 57,3 | 61,8 |
| | **L** | kW | 17,6 | 20,7 | 23,1 | 26,9 | 31,0 | 33,8 | 38,7 | 43,3 | 51,2 | 58,2 | 66,0 | 42,6 | 47,7 | 57,3 | 61,8 |
| | **A** | kW | - | - | - | - | 30,7 | 33,5 | 37,6 | 42,0 | 50,2 | 56,3 | 62,9 | 40,5 | 46,7 | 54,3 | 59,5 |
| | **E** | kW | 17,5 | 20,3 | 22,9 | 26,4 | 30,7 | 33,5 | 37,6 | 42,0 | 50,2 | 56,3 | 62,9 | 40,5 | 46,7 | 54,3 | 59,5 |
| System side water flow rate | ° | l/h | - | - | - | - | 16773 | 18334 | 21442 | 23594 | 27527 | 30948 | 34459 | 22371 | 24862 | 29796 | 32710 |
| | **L** | l/h | 9972 | 11376 | 13056 | 14710 | 16773 | 18334 | 21442 | 23594 | 27527 | 30948 | 34459 | 22371 | 24862 | 29796 | 32710 |
| | **A** | l/h | - | - | - | - | 17405 | 19229 | 21553 | 23952 | 28469 | 31171 | 34799 | 22488 | 25913 | 29888 | 32956 |
| | **E** | l/h | 10226 | 11816 | 13288 | 15099 | 17405 | 19229 | 21553 | 23952 | 28469 | 31171 | 34799 | 22488 | 25913 | 29888 | 32956 |
| System side pressure drops | ° | kPa | - | - | - | - | 40 | 48 | 43 | 52 | 56 | 69 | 84 | 56 | 52 | 76 | 65 |
| | **L** | kPa | 41 | 53 | 42 | 54 | 40 | 47 | 43 | 52 | 56 | 69 | 84 | 55 | 52 | 75 | 65 |
| | **A** | kPa | - | - | - | - | 28 | 34 | 33 | 41 | 45 | 54 | 57 | 42 | 56 | 54 | 55 |
| | **E** | kPa | 26 | 35 | 31 | 41 | 28 | 34 | 33 | 41 | 45 | 54 | 57 | 42 | 56 | 54 | 55 |
| COP | ° | W/W | - | - | - | - | 3,12 | 3,13 | 3,20 | 3,15 | 3,10 | 3,07 | 3,01 | 3,03 | 3,01 | 3,00 | 3,05 |
| | **L** | W/W | 3,27 | 3,17 | 3,26 | 3,16 | 3,12 | 3,13 | 3,20 | 3,15 | 3,10 | 3,07 | 3,01 | 3,03 | 3,01 | 3,00 | 3,05 |
| | **A** | W/W | - | - | - | - | 3,27 | 3,31 | 3,31 | 3,29 | 3,27 | 3,19 | 3,19 | 3,20 | 3,20 | 3,17 | 3,19 |
| | **E** | W/W | 3,37 | 3,36 | 3,35 | 3,30 | 3,27 | 3,31 | 3,31 | 3,29 | 3,27 | 3,19 | 3,19 | 3,20 | 3,20 | 3,17 | 3,19 |

***Performance in cooling mode (14511:2018)***
Water temperature system side (in/out) 12°C/7°C
Outdoor air temperature 35°C

***Performance in heating mode (14511:2018)***
Water temperature system side (in/out) 40°C/45°C;
Outdoor air temperature 7°C b.s/6°C b.u.

## PERFORMANCE SPECIFICATIONS

### ECL H (°-L-A-E)

| *Size ECL H* | Ver. | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Cooling capacity with low leaving water temp (UE n° 2016/2281)*** | | | | | | | | | | | | | | | | | |
| SEER | **°** | W/W | - | - | - | - | 3,92 | 3,83 | 3,99 | 3,91 | 4,14 | 3,97 | 3,88 | 3,70 | 3,67 | 3,73 | 3,76 |
| | **L** | W/W | 4,10 | 4,11 | 4,11 | 4,00 | 3,88 | 3,83 | 3,93 | 3,89 | 4,08 | 3,89 | 3,81 | 3,68 | 3,64 | 3,70 | 3,71 |
| | **A** | W/W | - | - | - | - | 4,21 | 4,14 | 4,39 | 4,20 | 4,38 | 4,27 | 4,24 | 3,93 | 3,92 | 3,99 | 4,06 |
| | **E** | W/W | 4,28 | 4,32 | 4,22 | 4,24 | 4,17 | 4,10 | 4,33 | 4,12 | 4,35 | 4,21 | 4,16 | 3,86 | 3,93 | 3,98 | 3,92 |
| ηsc | **°** | % | - | - | - | - | 154 | 150 | 157 | 153 | 163 | 156 | 152 | 145 | 144 | 146 | 147 |
| | **L** | % | 161 | 161 | 161 | 157 | 152 | 150 | 154 | 153 | 160 | 152 | 149 | 144 | 143 | 145 | 146 |
| | **A** | % | - | - | - | - | 165 | 163 | 173 | 165 | 172 | 168 | 167 | 154 | 154 | 157 | 160 |
| | **E** | % | 168 | 170 | 166 | 166 | 164 | 161 | 170 | 162 | 171 | 165 | 163 | 151 | 154 | 156 | 154 |
| ***Performance in average climatic conditions EU no. 813/2013 Pdesignh ≤ 400kW*** | | | | | | | | | | | | | | | | | |
| Pdesignh | **°** | | - | - | - | - | 89 | 97 | 112 | 125 | 145 | 163 | 183 | 117 | 130 | 158 | 172 |
| | **L** | | 52 | 60 | 68 | 78 | 89 | 97 | 112 | 125 | 145 | 163 | 183 | 117 | 130 | 158 | 172 |
| | **A** | | - | - | - | - | 90 | 100 | 112 | 126 | 149 | 164 | 183 | 117 | 135 | 157 | 174 |
| | **E** | | 54 | 62 | 69 | 79 | 90 | 100 | 112 | 126 | 149 | 164 | 183 | 117 | 135 | 157 | 174 |
| SCOP | **°** | | - | - | - | - | 3,47 | 3,56 | 3,58 | 3,58 | 3,43 | 3,51 | 3,52 | 3,33 | 3,31 | 3,22 | 3,29 |
| | **L** | | 3,98 | 3,90 | 3,88 | 3,83 | 3,47 | 3,56 | 3,58 | 3,58 | 3,43 | 3,51 | 3,52 | 3,33 | 3,31 | 3,22 | 3,29 |
| | **A** | | - | - | - | - | 3,54 | 3,65 | 3,65 | 3,66 | 3,57 | 3,61 | 3,62 | 3,40 | 3,38 | 3,29 | 3,40 |
| | **E** | | 4,03 | 4,04 | 4,03 | 3,89 | 3,54 | 3,65 | 3,65 | 3,66 | 3,57 | 3,61 | 3,62 | 3,40 | 3,38 | 3,29 | 3,40 |
| ηsh | **°** | % | - | - | - | - | 136 | 139 | 140 | 140 | 134 | 137 | 138 | 130 | 129 | 126 | 129 |
| | **L** | % | 156 | 153 | 152 | 150 | 136 | 139 | 140 | 140 | 134 | 137 | 138 | 130 | 129 | 126 | 129 |
| | **A** | % | - | - | - | - | 138 | 143 | 143 | 144 | 140 | 141 | 142 | 133 | 132 | 128 | 133 |
| | **E** | % | 158 | 159 | 158 | 153 | 138 | 143 | 143 | 144 | 140 | 141 | 142 | 133 | 132 | 128 | 133 |

## GENERAL SPECIFICATIONS

| *Size ECL H* | Ver. | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Electrical data*** | | | | | | | | | | | | | | | | | |
| Total input current (in cooling mode) | ° | A | - | - | - | - | 61 | 67 | 74 | 83 | 90 | 102 | 116 | 83 | 92 | 105 | 116 |
| | **L** | A | 35 | 41 | 47 | 55 | 59 | 66 | 74 | 84 | 87 | 100 | 116 | 84 | 94 | 103 | 116 |
| | **A** | A | - | - | - | - | 57 | 61 | 68 | 74 | 85 | 94 | 102 | 73 | 79 | 99 | 106 |
| | **E** | A | 32 | 37 | 42 | 47 | 56 | 61 | 68 | 75 | 83 | 93 | 102 | 74 | 76 | 98 | 106 |
| Total input current (in heating mode) | ° | A | - | - | - | - | 56 | 60 | 68 | 76 | 89 | 99 | 110 | 77 | 87 | 104 | 111 |
| | **L** | A | 32 | 38 | 43 | 51 | 56 | 60 | 68 | 76 | 89 | 99 | 110 | 77 | 87 | 104 | 111 |
| | **A** | A | - | - | - | - | 56 | 60 | 67 | 74 | 87 | 96 | 106 | 73 | 86 | 99 | 107 |
| | **E** | A | 33 | 38 | 44 | 50 | 56 | 60 | 67 | 74 | 87 | 96 | 106 | 73 | 86 | 99 | 107 |
| Maximum current (F.L.A.) | ° | A | - | - | - | - | 83 | 89 | 97 | 105 | 126 | 144 | 161 | 127 | 133 | 149 | 161 |
| | **L** | A | 58 | 62 | 65 | 72 | 83 | 89 | 97 | 105 | 126 | 144 | 161 | 127 | 133 | 149 | 161 |
| | **A** | A | - | - | - | - | 83 | 89 | 97 | 105 | 126 | 144 | 161 | 127 | 137 | 149 | 161 |
| | **E** | A | 59 | 62 | 66 | 72 | 83 | 89 | 97 | 105 | 126 | 144 | 161 | 127 | 137 | 149 | 161 |
| Peak current (L.R.A.) | ° | A | - | - | - | - | 268 | 274 | 321 | 329 | 371 | 388 | 486 | 236 | 242 | 289 | 346 |
| | **L** | A | 155 | 171 | 174 | 212 | 268 | 274 | 321 | 329 | 371 | 388 | 486 | 236 | 242 | 289 | 346 |
| | **A** | A | - | - | - | - | 268 | 274 | 321 | 329 | 371 | 388 | 486 | 236 | 246 | 289 | 346 |
| | **E** | A | 156 | 171 | 175 | 212 | 268 | 274 | 321 | 329 | 371 | 388 | 486 | 236 | 246 | 289 | 346 |
| ***Compressors*** | | | | | | | | | | | | | | | | | |
| Driver | | | On-Off | | | | | | | | | | | | | | |
| Type | | | Scroll | | | | | | | | | | | | | | |
| N° compressors | ° | n° | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 |
| | **L** | n° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 |
| | **A** | n° | - | - | - | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 |
| | **E** | n° | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 4 | 4 |
| N° circuits | ° | n° | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| | **L** | n° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| | **A** | n° | - | - | - | - | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| | **E** | n° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| Partialisation (of the unit) with mechanical thermostatic valve | ° | % | - | - | - | - | 44 | 50 | 44 | 50 | 43 | 50 | 44 | 22 | 25 | 25 | 22 |
| | **L** | % | 50 | 44 | 50 | 50 | 44 | 50 | 44 | 50 | 43 | 50 | 44 | 22 | 25 | 25 | 22 |
| | **A** | % | - | - | - | - | 44 | 50 | 44 | 50 | 43 | 50 | 44 | 22 | 25 | 25 | 22 |
| | **E** | % | 50 | 44 | 50 | 50 | 44 | 50 | 44 | 50 | 43 | 50 | 44 | 22 | 25 | 25 | 22 |
| Partialisation (of the unit) with electronic thermostatic valve | ° | % | - | - | - | - | 44 | 50 | 44 | 50 | 43 | 50 | 44 | 22 | 25 | 25 | 22 |
| | **L** | % | 50 | 44 | 50 | 50 | 44 | 50 | 44 | 50 | 43 | 50 | 44 | 22 | 25 | 25 | 22 |
| | **A** | % | - | - | - | - | 44 | 50 | 44 | 50 | 43 | 50 | 44 | 22 | 25 | 25 | 22 |
| | **E** | % | 50 | 44 | 50 | 50 | 44 | 50 | 44 | 50 | 43 | 50 | 44 | 22 | 25 | 25 | 22 |
| ***Refrigerant*** | | | | | | | | | | | | | | | | | |
| Type of refrigerant | | | R410A | | | | | | | | | | | | | | |
| Refrigerant load | C1 | ° | kg | - | - | - | - | 12,65 | 12,55 | 16,45 | 16,49 | 23,98 | 25,04 | 25,12 | 9,06 | 10,38 | 12,31 | 12,31 |
| | C2 | | | - | - | - | - | - | - | - | - | - | - | - | 9,06 | 10,38 | 12,31 | 12,31 |
| | C1 | **L** | kg | 9,39 | 9,42 | 11,05 | 11,05 | 12,65 | 12,55 | 16,45 | 16,49 | 23,98 | 25,04 | 25,12 | 9,06 | 10,38 | 12,31 | 12,31 |
| | C2 | | | - | - | - | - | - | - | - | - | - | - | - | 9,06 | 10,38 | 12,31 | 12,31 |
| | C1 | **A** | kg | - | - | - | - | 15,68 | 15,58 | 19,15 | 19,19 | 28,54 | 29,54 | 29,76 | 9,84 | 10,88 | 13,60 | 13,59 |
| | C2 | | | - | - | - | - | - | - | - | - | - | - | - | 9,84 | 10,88 | 13,60 | 13,59 |
| | C1 | **E** | kg | 9,48 | 11,02 | 11,14 | 14,18 | 15,68 | 15,58 | 19,15 | 19,19 | 28,54 | 29,54 | 29,76 | 9,84 | 10,88 | 13,60 | 13,59 |
| | C2 | | | - | - | - | - | - | - | - | - | - | - | - | 9,84 | 10,88 | 13,60 | 13,59 |
| ***Oil*** | | | | | | | | | | | | | | | | | |
| Oil type | | | POE | | | | | | | | | | | | | | |
| Oil load | C1 | | l | - | - | - | - | 7,8 | 8,9 | 8,9 | 8,9 | 10,7 | 12,6 | 12,6 | 6,5 | 6,5 | 6,8 | 7,8 |
| | C2 | | l | - | - | - | - | - | - | - | - | - | - | - | 6,5 | 6,5 | 6,8 | 7,8 |
| | ° | | l | - | - | - | - | 7,8 | 8,9 | 8,9 | 8,9 | 10,7 | 12,6 | 12,6 | 13,0 | 13,0 | 13,5 | 15,6 |
| | **L** | | l | 6,5 | 6,5 | 6,5 | 6,8 | 7,8 | 8,9 | 8,9 | 8,9 | 10,7 | 12,6 | 12,6 | 13,0 | 13,0 | 13,5 | 15,6 |
| | **A** | | l | - | - | - | - | 7,8 | 8,9 | 8,9 | 8,9 | 10,7 | 12,6 | 12,6 | 13,0 | 13,0 | 13,5 | 15,6 |
| | **E** | | l | 6,5 | 6,5 | 6,5 | 6,8 | 7,8 | 8,9 | 8,9 | 8,9 | 10,7 | 12,6 | 12,6 | 13,0 | 13,0 | 13,5 | 15,6 |

## GENERAL SPECIFICATIONS

| *Size ECL H* | Ver. | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***System side heat exchanger*** | | | | | | | | | | | | | | | | | |
| Type | | | | | | | | | | Plates | | | | | | | |
| Number | **all** | n° | | | | | | | | 1 | | | | | | | |
| Min. flow rate | ° | l/h | - | - | - | - | 7853 | 8588 | 9986 | 10742 | 12999 | 14623 | 16118 | 9938 | 11494 | 13767 | 15558 |
| | **L** | l/h | 4487 | 5099 | 5792 | 6727 | 7617 | 8315 | 9600 | 10270 | 12656 | 14162 | 15534 | 9510 | 10888 | 13339 | 14979 |
| | **A** | l/h | - | - | - | - | 8342 | 9165 | 10638 | 11503 | 14108 | 15363 | 17203 | 10603 | 12231 | 14462 | 16349 |
| | **E** | l/h | 4765 | 5348 | 6026 | 6992 | 8090 | 8861 | 10249 | 11018 | 13715 | 14846 | 16500 | 10127 | 11909 | 13973 | 15712 |
| Max. flow rate | ° | l/h | - | - | - | - | 23962 | 26192 | 30633 | 33706 | 39324 | 44212 | 49228 | 31959 | 35518 | 42567 | 46729 |
| | **L** | l/h | 14247 | 16252 | 18652 | 21015 | 23962 | 26192 | 30633 | 33706 | 39324 | 44212 | 49228 | 31959 | 35518 | 42567 | 46729 |
| | **A** | l/h | - | - | - | - | 24865 | 27471 | 30790 | 34218 | 40670 | 44531 | 49714 | 32127 | 37020 | 42699 | 47081 |
| | **E** | l/h | 14610 | 16881 | 18984 | 21571 | 24865 | 27471 | 30790 | 34218 | 40670 | 44531 | 49714 | 32127 | 37020 | 42699 | 47081 |
| Hydraulic connections (in/out) | ° | ø | - | - | - | - | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" |
| | **L** | ø | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" |
| | **A** | ø | - | - | - | - | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" |
| | **E** | ø | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" |
| Resistance | **all** | n°/W | 1/75 | 1/75 | 1/75 | 1/75 | 1/75 | 1/75 | 1/75 | 1/75 | 1/75 | 1/75 | 1/75 | 1/150 | 1/150 | 1/150 | 1/150 |
| ***Contenuto acqua unità*** | | | | | | | | | | | | | | | | | |
| Water content Versions 00 | ° | l | - | - | - | - | 27 | 27 | 29 | 29 | 35 | 35 | 35 | 31 | 33 | 37 | 41 |
| | **L** | l | 23 | 23 | 28 | 28 | 27 | 27 | 29 | 29 | 35 | 35 | 35 | 31 | 33 | 37 | 41 |
| | **A** | l | - | - | - | - | 29 | 29 | 31 | 31 | 38 | 38 | 40 | 33 | 37 | 41 | 44 |
| | **E** | l | 25 | 28 | 30 | 30 | 29 | 29 | 31 | 31 | 38 | 38 | 40 | 33 | 37 | 41 | 44 |
| Water content Versions P1 / P3 / K1 / K3 | ° | l | - | - | - | - | 32 | 32 | 34 | 34 | 40 | 40 | 40 | 36 | 38 | 42 | 46 |
| | **L** | l | 28 | 28 | 33 | 33 | 32 | 32 | 34 | 34 | 40 | 40 | 40 | 36 | 38 | 42 | 46 |
| | **A** | l | - | - | - | - | 34 | 34 | 36 | 36 | 43 | 43 | 45 | 38 | 42 | 46 | 49 |
| | **E** | l | 30 | 33 | 35 | 35 | 34 | 34 | 36 | 36 | 43 | 43 | 45 | 38 | 42 | 46 | 49 |
| Water content Versions P2 / P4 / K2 / K4 | ° | l | - | - | - | - | 40 | 40 | 42 | 42 | 48 | 48 | 48 | 44 | 46 | 50 | 54 |
| | **L** | l | 39 | 39 | 44 | 44 | 40 | 40 | 42 | 42 | 48 | 48 | 48 | 44 | 46 | 50 | 54 |
| | **A** | l | - | - | - | - | 42 | 42 | 44 | 44 | 51 | 51 | 53 | 46 | 50 | 54 | 57 |
| | **E** | l | 41 | 44 | 46 | 46 | 42 | 42 | 44 | 44 | 51 | 51 | 53 | 46 | 50 | 54 | 57 |
| Water content Versions 01 / 03 / 05 / 07 | ° | l | - | - | - | - | 410 | 410 | 412 | 412 | 416 | 416 | 416 | 413 | 416 | 419 | 422 |
| | **L** | l | 307 | 307 | 311 | 311 | 410 | 410 | 412 | 412 | 416 | 416 | 416 | 413 | 416 | 419 | 422 |
| | **A** | l | - | - | - | - | 412 | 412 | 413 | 413 | 419 | 419 | 422 | 416 | 419 | 422 | 426 |
| | **E** | l | 309 | 311 | 313 | 313 | 412 | 412 | 413 | 413 | 419 | 419 | 422 | 416 | 419 | 422 | 426 |
| Water content Versions 03 / 04 / 06 / 08 | ° | l | - | - | - | - | 418 | 418 | 420 | 420 | 424 | 424 | 424 | 421 | 424 | 427 | 430 |
| | **L** | l | 315 | 315 | 319 | 319 | 418 | 418 | 420 | 420 | 424 | 424 | 424 | 421 | 424 | 427 | 430 |
| | **A** | l | - | - | - | - | 420 | 420 | 421 | 421 | 427 | 427 | 430 | 424 | 427 | 430 | 434 |
| | **E** | l | 317 | 319 | 321 | 321 | 420 | 420 | 421 | 421 | 427 | 427 | 430 | 424 | 427 | 430 | 434 |
| ***Storage tank*** | | | | | | | | | | | | | | | | | |
| Capacity | ° | l | - | - | - | - | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |
| | **L** | l | 300 | 300 | 300 | 300 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |
| | **A** | l | - | - | - | - | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |
| | **E** | l | 300 | 300 | 300 | 300 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |
| Storage tank resistance | | n°/W | | | | | | | | 1/300 | | | | | | | |
| Holes on the storage tank with heaters (05-06-07-08) * | | n° | | | | | | | | 3 | | | | | | | |
| Hole connection for heaters | | ø | | | | | | | | M77 | | | | | | | |
| ***Expansion vessel*** | | | | | | | | | | | | | | | | | |
| Expansion vessel (P1÷W4) | ° | n°/l | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 |
| | **L** | n°/l | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 |
| | **A** | n°/l | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 |
| | **E** | n°/l | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 | 1/24 |
| ***Safety valve*** | | | | | | | | | | | | | | | | | |
| High pressure | | n°/bar | 1 / 45 | 1 / 45 | 1 / 45 | 1 / 45 | 1 / 45 | 1 / 45 | 1 / 45 | 1 / 45 | 1 / 45 | 1 / 45 | 2 / 45 | 2 / 45 | 2 / 45 | 2 / 45 | 2 / 45 |
| Low pressure | | n°/bar | 1 / 30 | 1 / 30 | 1 / 30 | 1 / 30 | 1 / 30 | 1 / 30 | 1 / 30 | 1 / 30 | 1 / 30 | 1 / 30 | 1 / 30 | 2 / 30 | 2 / 30 | 2 / 30 | 2 / 30 |

* Storage tanks with holes for supplementary heaters **(not provided)** are sent from the factory with plastic protection caps. Before loading the system, if the installation of one or all resistances is not expected, all plastic caps must be replaced with the special caps, commonly commercially available.

## GENERAL SPECIFICATIONS

| *Size ECL H* | Ver. | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Standard fans*** | | | | | | | | | | | | | | | | | |
| Driver | **all** | | On-Off | | | | | | | | | | | | | | |
| Type | **all** | | Axial | | | | | | | | | | | | | | |
| Number | **°** | n° | - | - | - | - | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 |
| | **L** | n° | 4 | 6 | 6 | 8 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 |
| | **A** | n° | - | - | - | - | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 |
| | **E** | n° | 6 | 6 | 8 | 8 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 |
| Air flow rate | **°** | m³/h | - | - | - | - | 42785 | 42785 | 41094 | 41094 | 62015 | 61936 | 61936 | 41065 | 39542 | 61936 | 61936 |
| | **L** | m³/h | 15575 | 21226 | 22733 | 28156 | 32651 | 32651 | 31161 | 31161 | 47087 | 47126 | 47126 | 31170 | 29823 | 47126 | 47126 |
| | **A** | m³/h | - | - | - | - | 41080 | 41080 | 39461 | 39461 | 59701 | 59684 | 59684 | 39461 | 61963 | 59684 | 59684 |
| | **E** | m³/h | 21230 | 22746 | 28176 | 25787 | 31149 | 31149 | 29855 | 29855 | 45202 | 45187 | 45187 | 29855 | 47085 | 45187 | 45187 |
| Total Input current | **°** | A | - | - | - | - | 7,2 | 7,2 | 7,2 | 7,2 | 10,8 | 10,8 | 10,8 | 7,2 | 7,2 | 10,8 | 10,8 |
| | **L** | A | 2,04 | 3,06 | 3,06 | 4,08 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 4 | 4 | 6 | 6 |
| | **A** | A | - | - | - | - | 7,2 | 7,2 | 7,2 | 7,2 | 10,8 | 10,8 | 10,8 | 7,2 | 10,8 | 10,8 | 10,8 |
| | **E** | A | 3,06 | 3,06 | 4,08 | 4,08 | 4 | 4 | 4 | 4 | 6 | 6 | 6 | 4 | 6 | 6 | 6 |
| Total input power | **°** | kW | - | - | - | - | 3,5 | 3,5 | 3,5 | 3,5 | 5,25 | 5,25 | 5,25 | 3,5 | 3,5 | 5,25 | 5,25 |
| | **L** | kW | 0,46 | 0,69 | 0,69 | 0,92 | 2,66 | 2,66 | 2,66 | 2,66 | 3,99 | 3,99 | 3,99 | 2,66 | 2,66 | 3,99 | 3,99 |
| | **A** | kW | - | - | - | - | 3,5 | 3,5 | 3,5 | 3,5 | 5,25 | 5,25 | 5,25 | 3,5 | 5,25 | 5,25 | 5,25 |
| | **E** | kW | 0,69 | 0,69 | 0,92 | 0,92 | 2,66 | 2,66 | 2,66 | 2,66 | 3,99 | 3,99 | 3,99 | 2,66 | 3,99 | 3,99 | 3,99 |
| ***Enlarged fans*** (1) | | | | | | | | | | | | | | | | | |
| Driver | **all** | | On-Off | | | | - | - | - | - | - | - | - | - | - | - | - |
| Type | **all** | | Axial | | | | - | - | - | - | - | - | - | - | - | - | - |
| Number | **°** | n° | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | **L** | n° | 4 | 6 | 6 | 8 | - | - | - | - | - | - | - | - | - | - | - |
| | **A** | n° | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | **E** | n° | 6 | 6 | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - |
| Air flow rate | **°** | m³/h | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | **L** | m³/h | 15575 | 21226 | 22733 | 28156 | - | - | - | - | - | - | - | - | - | - | - |
| | **A** | m³/h | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | **E** | m³/h | 21230 | 22746 | 28176 | 25787 | - | - | - | - | - | - | - | - | - | - | - |
| Useful static pressure | **°** | Pa | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | **L** | Pa | 80 | 80 | 80 | 80 | - | - | - | - | - | - | - | - | - | - | - |
| | **A** | Pa | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | **E** | Pa | 80 | 80 | 80 | 80 | - | - | - | - | - | - | - | - | - | - | - |
| Total Input current | **°** | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | **L** | A | 9,44 | 14,16 | 14,16 | 18,88 | - | - | - | - | - | - | - | - | - | - | - |
| | **A** | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | **E** | A | 14,16 | 14,16 | 18,88 | 18,88 | - | - | - | - | - | - | - | - | - | - | - |
| Total input power | **°** | kW | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | **L** | kW | 1,96 | 2,94 | 2,94 | 3,92 | - | - | - | - | - | - | - | - | - | - | - |
| | **A** | kW | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | **E** | kW | 2,94 | 2,94 | 3,92 | 3,92 | - | - | - | - | - | - | - | - | - | - | - |
| ***Inverter fans*** | | | | | | | | | | | | | | | | | |
| Driver | **all** | | Inverter | | | | | | | | | | | | | | |
| Type | **all** | | Axial | | | | | | | | | | | | | | |
| Number | **°** | n° | - | - | - | - | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 |
| | **L** | n° | 4 | 6 | 6 | 8 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 2 | 3 | 3 |
| | **A** | n° | - | - | - | - | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 |
| | **E** | n° | 6 | 6 | 8 | 8 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 |
| Air flow rate | **°** | m³/h | - | - | - | - | 42072 | 42072 | 39063 | 39063 | 59094 | 59101 | 59101 | 39063 | 35919 | 59101 | 59101 |
| | **L** | m³/h | 15410 | 20575 | 22364 | 27282 | 42072 | 42072 | 39063 | 39063 | 59094 | 59101 | 59101 | 39063 | 35919 | 59101 | 59101 |
| | **A** | m³/h | - | - | - | - | 39055 | 39055 | 35913 | 35913 | 54574 | 54573 | 54573 | 35919 | 59102 | 54573 | 54573 |
| | **E** | m³/h | 20578 | 22370 | 27284 | 23730 | 39055 | 39055 | 35913 | 35913 | 54574 | 54573 | 54573 | 35919 | 59102 | 54573 | 54573 |
| Useful static pressure | **°** | Pa | - | - | - | - | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| | **L** | Pa | 20 | 20 | 20 | 20 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| | **A** | Pa | - | - | - | - | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| | **E** | Pa | 20 | 20 | 20 | 20 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| Total Input current | **°** | A | - | - | - | - | 7,2 | 7,2 | 7,2 | 7,2 | 10,8 | 10,8 | 10,8 | 7,2 | 7,2 | 10,8 | 10,8 |
| | **L** | A | 3,7 | 5,6 | 5,6 | 7,4 | 5,1 | 5,1 | 5,1 | 5,1 | 7,6 | 7,6 | 7,6 | 5,1 | 5,1 | 7,6 | 7,6 |
| | **A** | A | - | - | - | - | 7,2 | 7,2 | 7,2 | 7,2 | 10,8 | 10,8 | 10,8 | 7,2 | 10,8 | 10,8 | 10,8 |
| | **E** | A | 5,6 | 5,6 | 7,4 | 7,4 | 5,1 | 5,1 | 5,1 | 5,1 | 7,6 | 7,6 | 7,6 | 5,1 | 7,6 | 7,6 | 7,6 |
| Total input power | **°** | kW | - | - | - | - | 4,4 | 4,4 | 4,4 | 4,4 | 6,6 | 6,6 | 6,6 | 4,4 | 4,4 | 6,6 | 6,6 |
| | **L** | kW | 0,46 | 0,69 | 0,69 | 0,92 | 3,08 | 3,08 | 3,08 | 3,08 | 4,62 | 4,62 | 4,62 | 3,08 | 3,08 | 4,62 | 4,62 |
| | **A** | kW | - | - | - | - | 4,4 | 4,4 | 4,4 | 4,4 | 6,6 | 6,6 | 6,6 | 4,4 | 6,6 | 6,6 | 6,6 |
| | **E** | kW | 0,69 | 0,69 | 0,92 | 0,92 | 3,08 | 3,08 | 3,08 | 3,08 | 4,62 | 4,62 | 4,62 | 3,08 | 4,62 | 4,62 | 4,62 |

(1) Enlarged fans On-Off available only for sizes 0282÷0352

## GENERAL SPECIFICATIONS

| *Size ECL H* | Ver. | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Sound data - COOLING MODE*** | | | | | | | | | | | | | | | | | |
| Sound power level | ° | dB(A) | - | - | - | - | 86,6 | 86,9 | 87,1 | 87,3 | 88,8 | 88,9 | 89,4 | 86,5 | 86,5 | 88,2 | 89,5 |
| | **L** | dB(A) | 72,4 | 73,5 | 73,9 | 74,5 | 82,2 | 82,9 | 83,3 | 83,7 | 84,9 | 85,0 | 86,1 | 76,7 | 77,1 | 78,0 | 84,0 |
| | **A** | dB(A) | - | - | - | - | 86,6 | 86,9 | 87,1 | 87,3 | 88,8 | 88,9 | 89,4 | 86,5 | 88,2 | 88,2 | 89,5 |
| | **E** | dB(A) | 73,0 | 73,5 | 74,3 | 74,5 | 82,2 | 82,9 | 83,3 | 83,7 | 84,9 | 85,0 | 86,1 | 76,7 | 77,8 | 78,0 | 84,0 |
| Sound pressure level (10m) | ° | dB(A) | - | - | - | - | 54,8 | 55,0 | 55,2 | 55,4 | 56,8 | 56,9 | 57,4 | 54,6 | 54,6 | 56,2 | 57,5 |
| | **L** | dB(A) | 40,7 | 41,7 | 42,1 | 42,7 | 50,3 | 51,0 | 51,4 | 51,8 | 52,9 | 53,1 | 54,1 | 44,8 | 45,3 | 46,0 | 52,0 |
| | **A** | dB(A) | - | - | - | - | 54,8 | 55,0 | 55,2 | 55,4 | 56,8 | 56,9 | 57,4 | 54,6 | 56,2 | 56,2 | 57,5 |
| | **E** | dB(A) | 41,3 | 41,7 | 42,5 | 42,7 | 50,3 | 51,0 | 51,4 | 51,8 | 52,9 | 53,1 | 54,1 | 44,8 | 45,8 | 46,0 | 52,0 |
| ***Sound data - HEATING MODE*** | | | | | | | | | | | | | | | | | |
| Sound power level | ° | dB(A) | - | - | - | - | 86,6 | 86,9 | 87,1 | 87,3 | 88,8 | 88,9 | 89,4 | 86,5 | 86,5 | 88,2 | 89,5 |
| | **L** | dB(A) | 72,4 | 73,5 | 73,9 | 74,5 | 86,6 | 86,9 | 87,1 | 87,3 | 88,8 | 88,9 | 89,4 | 86,5 | 86,5 | 88,2 | 89,5 |
| | **A** | dB(A) | - | - | - | - | 86,6 | 86,9 | 87,1 | 87,3 | 88,8 | 88,9 | 89,4 | 86,5 | 88,2 | 88,2 | 89,5 |
| | **E** | dB(A) | 73,0 | 73,5 | 74,3 | 74,5 | 86,6 | 86,9 | 87,1 | 87,3 | 88,8 | 88,9 | 89,4 | 86,5 | 88,2 | 88,2 | 89,5 |
| Sound pressure level (10m) | ° | dB(A) | - | - | - | - | 54,8 | 55,0 | 55,2 | 55,4 | 56,8 | 56,9 | 57,4 | 54,6 | 54,6 | 56,2 | 57,5 |
| | **L** | dB(A) | 40,7 | 41,7 | 42,1 | 42,7 | 54,8 | 55,0 | 55,2 | 55,4 | 56,8 | 56,9 | 57,4 | 54,6 | 54,6 | 56,2 | 57,5 |
| | **A** | dB(A) | - | - | - | - | 54,8 | 55,0 | 55,2 | 55,4 | 56,8 | 56,9 | 57,4 | 54,6 | 56,2 | 56,2 | 57,5 |
| | **E** | dB(A) | 41,3 | 41,7 | 42,5 | 42,7 | 54,8 | 55,0 | 55,2 | 55,4 | 56,8 | 56,9 | 57,4 | 54,6 | 56,2 | 56,2 | 57,5 |
| ***Dimensions*** | | | | | | | | | | | | | | | | | |
| Height | ° | mm | - | - | - | - | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 |
| | **L** | mm | 1680 | 1680 | 1680 | 1680 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 |
| | **A** | mm | - | - | - | - | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 |
| | **E** | mm | 1680 | 1680 | 1680 | 1680 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 | 1898 |
| Width | ° | mm | - | - | - | - | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| | **L** | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| | **A** | mm | - | - | - | - | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| | **E** | mm | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| Depth | ° | mm | - | - | - | - | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 3200 | 3200 | 4010 | 4010 |
| | **L** | mm | 2450 | 2450 | 2950 | 2950 | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 3200 | 3200 | 4010 | 4010 |
| | **A** | mm | - | - | - | - | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 3200 | 4010 | 4010 | 4010 |
| | **E** | mm | 2450 | 2950 | 2950 | 2950 | 3200 | 3200 | 3200 | 3200 | 4010 | 4010 | 4010 | 3200 | 4010 | 4010 | 4010 |
| ***Dimensions + package*** | | | | | | | | | | | | | | | | | |
| Height | ° | mm | - | - | - | - | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 |
| | **L** | mm | 1800 | 1800 | 1800 | 1800 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 |
| | **A** | mm | - | - | - | - | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 |
| | **E** | mm | 1800 | 1800 | 1800 | 1800 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 | 2018 |
| Width | ° | mm | - | - | - | - | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 |
| | **L** | mm | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 |
| | **A** | mm | - | - | - | - | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 |
| | **E** | mm | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 | 1170 |
| Depth | ° | mm | - | - | - | - | 3270 | 3270 | 3270 | 3270 | 4080 | 4080 | 4080 | 3270 | 3270 | 4080 | 4080 |
| | **L** | mm | 2520 | 2520 | 3020 | 3020 | 3270 | 3270 | 3270 | 3270 | 4080 | 4080 | 4080 | 3270 | 3270 | 4080 | 4080 |
| | **A** | mm | - | - | - | - | 3270 | 3270 | 3270 | 3270 | 4080 | 4080 | 4080 | 3270 | 4080 | 4080 | 4080 |
| | **E** | mm | 2520 | 3020 | 3020 | 3020 | 3270 | 3270 | 3270 | 3270 | 4080 | 4080 | 4080 | 3270 | 4080 | 4080 | 4080 |
| ***Weights*** | | | | | | | | | | | | | | | | | |
| Empty weight + package * | ° | kg | - | - | - | - | 1009 | 1034 | 1090 | 1090 | 1295 | 1457 | 1470 | 1171 | 1235 | 1352 | 1413 |
| | **L** | kg | 838 | 856 | 922 | 935 | 1009 | 1034 | 1090 | 1090 | 1295 | 1457 | 1470 | 1171 | 1235 | 1352 | 1413 |
| | **A** | kg | - | - | - | - | 1074 | 1099 | 1156 | 1156 | 1406 | 1569 | 1593 | 1254 | 1378 | 1481 | 1542 |
| | **E** | kg | 856 | 919 | 942 | 991 | 1074 | 1099 | 1156 | 1156 | 1406 | 1569 | 1593 | 1254 | 1378 | 1481 | 1542 |
| Operation weight * | ° | kg | - | - | - | - | 1001 | 1026 | 1088 | 1088 | 1298 | 1460 | 1472 | 1167 | 1237 | 1351 | 1424 |
| | **L** | kg | 817 | 835 | 905 | 917 | 1001 | 1026 | 1088 | 1088 | 1298 | 1460 | 1472 | 1167 | 1237 | 1351 | 1424 |
| | **A** | kg | - | - | - | - | 1072 | 1097 | 1162 | 1162 | 1420 | 1582 | 1617 | 1256 | 1377 | 1491 | 1561 |
| | **E** | kg | 840 | 902 | 929 | 978 | 1072 | 1097 | 1162 | 1162 | 1420 | 1582 | 1617 | 1256 | 1377 | 1491 | 1561 |

* Weight referring to version 00 (without hydronic kit)

***For the weights of the other configurations, refer to the installation manual or the Magellano selection program, available at www.Airedale.com***

**Sound power (performance in cooling mode)**
Airedale determines sound power values in agreement with the 9614-2 Standard, in compliance with that requested by Eurovent certification.

**Sound Pressure (performance in cooling mode)**
Sound pressure measured in free field conditions with reflective surface (directivity factor Q=2) at 10mt distance from external surface of unit, in compliance with ISO 3744 regulations.

## ECL H (°-L-A-E) WITH DESUPERHEATER (D)

| *Size ECL H D* | Ver. | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***Performance in cooling mode with desuperheater*** (1) | | | | | | | | | | | | | | | | | |
| Cooling capacity | ° | kW | - | - | - | - | 91,2 | 99,7 | 116,0 | 124,7 | 151,0 | 169,9 | 187,2 | 115,4 | 133,4 | 159,9 | 180,8 |
| | **L** | kW | 52,1 | 59,2 | 67,3 | 78,1 | 88,5 | 96,5 | 111,5 | 119,3 | 147,0 | 164,5 | 180,5 | 110,4 | 126,4 | 154,9 | 174,0 |
| | **A** | kW | - | - | - | - | 96,9 | 106,5 | 123,6 | 133,6 | 163,9 | 178,5 | 199,9 | 123,1 | 142,1 | 168,0 | 190,0 |
| | **E** | kW | 55,4 | 62,1 | 70,0 | 81,2 | 94,0 | 103,0 | 119,1 | 128,0 | 159,4 | 172,5 | 191,7 | 117,6 | 138,3 | 162,3 | 182,6 |
| Heating capacity recovered | ° | kW | - | - | - | - | 33,2 | 37,3 | 42,8 | 48,4 | 50,7 | 59,7 | 70,3 | 46,8 | 52,1 | 57,5 | 66,0 |
| | **L** | kW | 20,8 | 23,1 | 26,2 | 30,9 | 34,8 | 39,4 | 45,6 | 51,9 | 53,2 | 63,0 | 74,9 | 50,4 | 56,5 | 60,5 | 70,0 |
| | **A** | kW | - | - | - | - | 31,8 | 35,8 | 39,4 | 45,4 | 49,6 | 56,5 | 66,8 | 43,6 | 46,0 | 54,8 | 62,7 |
| | **E** | kW | 19,4 | 22,1 | 24,8 | 29,8 | 33,4 | 37,9 | 42,0 | 48,6 | 52,1 | 59,9 | 71,6 | 46,3 | 48,1 | 57,8 | 66,8 |
| Input Power | ° | kW | - | - | - | - | 33,5 | 37,5 | 42,6 | 47,8 | 51,7 | 60,0 | 69,8 | 46,2 | 51,2 | 58,0 | 65,7 |
| | **L** | kW | 19,5 | 22,0 | 24,8 | 29,5 | 34,1 | 38,3 | 44,1 | 49,9 | 52,3 | 61,5 | 72,5 | 48,4 | 54,2 | 59,2 | 67,8 |
| | **A** | kW | - | - | - | - | 32,3 | 36,1 | 39,5 | 45,0 | 50,7 | 57,0 | 66,5 | 43,3 | 47,2 | 55,4 | 62,8 |
| | **E** | kW | 18,5 | 21,0 | 23,7 | 28,3 | 32,8 | 36,9 | 40,7 | 46,9 | 51,4 | 58,5 | 69,3 | 44,7 | 47,7 | 56,7 | 64,9 |
| EER | ° | W/W | - | - | - | - | 2,72 | 2,66 | 2,72 | 2,61 | 2,92 | 2,83 | 2,68 | 2,50 | 2,60 | 2,76 | 2,75 |
| | **L** | W/W | 2,67 | 2,69 | 2,71 | 2,65 | 2,60 | 2,52 | 2,53 | 2,39 | 2,81 | 2,68 | 2,49 | 2,28 | 2,33 | 2,62 | 2,57 |
| | **A** | W/W | - | - | - | - | 3,00 | 2,95 | 3,13 | 2,97 | 3,23 | 3,13 | 3,01 | 2,84 | 3,01 | 3,03 | 3,03 |
| | **E** | W/W | 3,00 | 2,96 | 2,95 | 2,86 | 2,86 | 2,79 | 2,92 | 2,73 | 3,10 | 2,95 | 2,77 | 2,63 | 2,90 | 2,87 | 2,81 |
| System side water flow rate | ° | l/h | - | - | - | - | 15705 | 17176 | 19972 | 21483 | 25997 | 29246 | 32236 | 19875 | 22987 | 27533 | 31116 |
| | **L** | l/h | 8974 | 10197 | 11583 | 13454 | 15234 | 16629 | 19199 | 20540 | 25312 | 28323 | 31067 | 19020 | 21776 | 26677 | 29958 |
| | **A** | l/h | - | - | - | - | 16684 | 18330 | 21276 | 23006 | 28215 | 30726 | 34406 | 21205 | 24461 | 28924 | 32697 |
| | **E** | l/h | 9530 | 10696 | 12052 | 13983 | 16180 | 17722 | 20498 | 22036 | 27430 | 29691 | 33000 | 20254 | 23818 | 27946 | 31424 |
| Min. flow rate | ° | l/h | - | - | - | - | 7853 | 8588 | 9986 | 10742 | 12999 | 14623 | 16118 | 9938 | 11494 | 13767 | 15558 |
| | **L** | l/h | 4487 | 5099 | 5792 | 6727 | 7617 | 8315 | 9600 | 10270 | 12656 | 14162 | 15534 | 9510 | 10888 | 13339 | 14979 |
| | **A** | l/h | - | - | - | - | 8342 | 9165 | 10638 | 11503 | 14108 | 15363 | 17203 | 10603 | 12231 | 14462 | 16349 |
| | **E** | l/h | 4765 | 5348 | 6026 | 6992 | 8090 | 8861 | 10249 | 11018 | 13715 | 14846 | 16500 | 10127 | 11909 | 13973 | 15712 |
| Max. flow rate | ° | l/h | - | - | - | - | 23962 | 26192 | 30633 | 33706 | 39324 | 44212 | 49228 | 31959 | 35518 | 42567 | 46729 |
| | **L** | l/h | 14247 | 16252 | 18652 | 21015 | 23962 | 26192 | 30633 | 33706 | 39324 | 44212 | 49228 | 31959 | 35518 | 42567 | 46729 |
| | **A** | l/h | - | - | - | - | 24865 | 27471 | 30790 | 34218 | 40670 | 44531 | 49714 | 32127 | 37020 | 42699 | 47081 |
| | **E** | l/h | 14610 | 16881 | 18984 | 21571 | 24865 | 27471 | 30790 | 34218 | 40670 | 44531 | 49714 | 32127 | 37020 | 42699 | 47081 |
| System side pressure drops | ° | kPa | - | - | - | - | 35 | 42 | 37 | 43 | 50 | 61 | 74 | 44 | 44 | 65 | 59 |
| | **L** | kPa | 33 | 42 | 33 | 45 | 33 | 39 | 34 | 39 | 48 | 58 | 69 | 40 | 40 | 60 | 55 |
| | **A** | kPa | - | - | - | - | 26 | 31 | 32 | 38 | 44 | 52 | 56 | 38 | 50 | 50 | 54 |
| | **E** | kPa | 23 | 29 | 26 | 35 | 24 | 29 | 30 | 34 | 41 | 49 | 51 | 34 | 48 | 47 | 50 |
| Desuperheater side water flow rate | ° | l/h | - | - | - | - | 5763 | 6489 | 7438 | 8418 | 8817 | 10369 | 12210 | 8128 | 9047 | 9985 | 11471 |
| | **L** | l/h | 3607 | 4021 | 4559 | 5376 | 6053 | 6849 | 7921 | 9024 | 9241 | 10954 | 13022 | 8751 | 9824 | 10518 | 12158 |
| | **A** | l/h | - | - | - | - | 5525 | 6226 | 6851 | 7882 | 8614 | 9815 | 11608 | 7569 | 7989 | 9521 | 10905 |
| | **E** | l/h | 3368 | 3844 | 4313 | 5174 | 5812 | 6582 | 7291 | 8453 | 9048 | 10403 | 12450 | 8042 | 8365 | 10054 | 11603 |
| Min. flow rate | ° | l/h | - | - | - | - | 1800 | 1800 | 1800 | 1800 | 5000 | 5000 | 5000 | 2400 | 2400 | 3600 | 3600 |
| | **L** | l/h | 1200 | 1200 | 1200 | 1200 | 1800 | 1800 | 1800 | 1800 | 5000 | 5000 | 5000 | 2400 | 2400 | 3600 | 3600 |
| | **A** | l/h | - | - | - | - | 1800 | 1800 | 1800 | 1800 | 5000 | 5000 | 5000 | 2400 | 3600 | 3600 | 3600 |
| | **E** | l/h | 1200 | 1200 | 1200 | 1200 | 1800 | 1800 | 1800 | 1800 | 5000 | 5000 | 5000 | 2400 | 3600 | 3600 | 3600 |
| Max. flow rate | ° | l/h | - | - | - | - | 10600 | 10600 | 10600 | 10600 | 18000 | 18000 | 18000 | 21200 | 21200 | 21200 | 21200 |
| | **L** | l/h | 10600 | 10600 | 10600 | 10600 | 10600 | 10600 | 10600 | 10600 | 18000 | 18000 | 18000 | 21200 | 21200 | 21200 | 21200 |
| | **A** | l/h | - | - | - | - | 10600 | 10600 | 10600 | 10600 | 18000 | 18000 | 18000 | 21200 | 21200 | 21200 | 21200 |
| | **E** | l/h | 10600 | 10600 | 10600 | 10600 | 10600 | 10600 | 10600 | 10600 | 18000 | 18000 | 18000 | 21200 | 21200 | 21200 | 21200 |
| Desuperheater side pressure drops | ° | kPa | - | - | - | - | 15 | 19 | 26 | 33 | 24 | 33 | 46 | 24 | 30 | 31 | 41 |
| | **L** | kPa | 9 | 11 | 14 | 19 | 17 | 22 | 29 | 38 | 26 | 37 | 52 | 28 | 35 | 34 | 46 |
| | **A** | kPa | - | - | - | - | 14 | 18 | 22 | 29 | 23 | 29 | 41 | 21 | 20 | 28 | 37 |
| | **E** | kPa | 8 | 10 | 12 | 18 | 16 | 20 | 25 | 33 | 25 | 33 | 47 | 23 | 22 | 31 | 42 |
| Type exchanger | **all** | | Plates | | | | | | | | | | | | | | |
| Number | **all** | n° | 1 | | | | | | | | | | | | | | |
| Hydraulic connections (in/out) | ° | ø | - | - | - | - | 1" | 1" | 1" | 1" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" |
| | **L** | ø | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" |
| | **A** | ø | - | - | - | - | 1" | 1" | 1" | 1" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" |
| | **E** | ø | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" |
| Type hydraulic connections | **tutte** | | grooved joints | | | | | | | | | | | | | | |
| Water content | ° | l | - | - | - | - | 0,83 | 0,83 | 0,83 | 0,83 | 11,51 | 11,51 | 11,51 | 10,26 | 10,26 | 10,67 | 10,67 |
| | **L** | l | 0,62 | 0,62 | 0,62 | 0,62 | 0,83 | 0,83 | 0,83 | 0,83 | 11,51 | 11,51 | 11,51 | 10,26 | 10,26 | 10,67 | 10,67 |
| | **A** | l | - | - | - | - | 0,83 | 0,83 | 0,83 | 0,83 | 11,51 | 11,51 | 11,51 | 10,26 | 10,67 | 10,67 | 10,67 |
| | **E** | l | 0,62 | 0,62 | 0,62 | 0,62 | 0,83 | 0,83 | 0,83 | 0,83 | 11,51 | 11,51 | 11,51 | 10,26 | 10,67 | 10,67 | 10,67 |

(1) The desuperheater can only be used in the cooling mode

***Cooling mode with desuperheater (14511:2018)***

| | |
|---|---|
| Water temperature system side (in/out) | 12°C/7°C |
| Outdoor air temperature | 35°C |
| Water temperature desuperheater (in/out) | 40°C/45°C |

## GENERAL SPECIFICATIONS

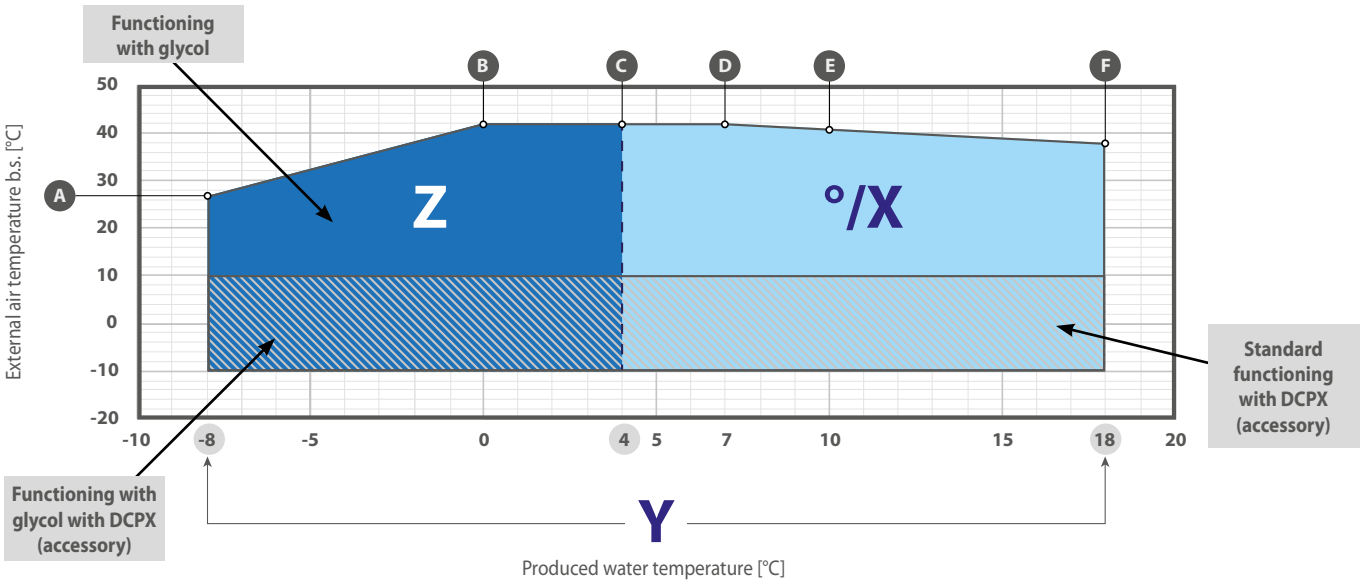
| *Size ECL H* | vers | | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **WEIGHT OPTION "D" (empty weight)** | ° | kg | - | - | - | - | 24 | 24 | 24 | 24 | 62 | 62 | 62 | 57 | 57 | 59 | 59 |
| | **L** | kg | 23 | 23 | 23 | 23 | 24 | 24 | 24 | 24 | 62 | 62 | 62 | 57 | 57 | 59 | 59 |
| | **A** | kg | - | - | - | - | 24 | 24 | 24 | 24 | 62 | 62 | 62 | 57 | 59 | 59 | 59 |
| | **E** | kg | 23 | 23 | 23 | 23 | 24 | 24 | 24 | 24 | 62 | 62 | 62 | 57 | 59 | 59 | 59 |
| **Desuperheater water contents** | ° | kg | - | - | - | - | 1 | 1 | 1 | 1 | 12 | 12 | 12 | 10 | 10 | 11 | 11 |
| | **L** | kg | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 | 12 | 12 | 10 | 10 | 11 | 11 |
| | **A** | kg | - | - | - | - | 1 | 1 | 1 | 1 | 12 | 12 | 12 | 10 | 11 | 11 | 11 |
| | **E** | kg | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 | 12 | 12 | 10 | 11 | 11 | 11 |
| **WEIGHT OPTION "D" (operation weight)** | ° | kg | - | - | - | - | 25 | 25 | 25 | 25 | 74 | 74 | 74 | 67 | 67 | 70 | 70 |
| | **L** | kg | 24 | 24 | 24 | 24 | 25 | 25 | 25 | 25 | 74 | 74 | 74 | 67 | 67 | 70 | 70 |
| | **A** | kg | - | - | - | - | 25 | 25 | 25 | 25 | 74 | 74 | 74 | 67 | 70 | 70 | 70 |
| | **E** | kg | 24 | 24 | 24 | 24 | 25 | 25 | 25 | 25 | 74 | 74 | 74 | 67 | 70 | 70 | 70 |
| **WEIGHT OPTION "R" or "S"** | ° | kg | - | - | - | - | 231 | 231 | 328 | 328 | 310 | 453 | 453 | 328 | 389 | 453 | 453 |
| | **L** | kg | 169 | 169 | 214 | 214 | 231 | 231 | 328 | 328 | 310 | 453 | 453 | 328 | 389 | 453 | 453 |
| | **A** | kg | - | - | - | - | 328 | 328 | 389 | 389 | 453 | 597 | 597 | 389 | 453 | 597 | 597 |
| | **E** | kg | 169 | 214 | 214 | 310 | 328 | 328 | 389 | 389 | 453 | 597 | 597 | 389 | 453 | 597 | 597 |
| ***WEIGHT HYDRONIC KIT WITH INVERTER*** | | | | | | | | | | | | | | | | | |
| I1 compared with P1 | | kg | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 11 | 6 | 6 | 6 | 11 |
| I2 compared with P2 | | kg | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 21 | 11 | 11 | 11 | 21 |
| I3 compared with P3 | | kg | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 11 | 11 | 11 | 6 | 6 | 11 | 11 |
| I4 compared with P4 | | kg | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 21 | 21 | 21 | 11 | 11 | 21 | 21 |
| K1 compared with 01 | | kg | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 11 | 6 | 6 | 6 | 11 |
| K2 compared with 02 | | kg | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 21 | 11 | 11 | 11 | 21 |
| K3 compared with 03 | | kg | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 11 | 11 | 11 | 6 | 6 | 11 | 11 |
| K4 compared with 04 | | kg | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 21 | 21 | 21 | 11 | 11 | 21 | 21 |
| W1 compared with 01 | | kg | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 34 | 29 | 29 | 29 | 34 |
| W2 compared with 02 | | kg | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 44 | 35 | 35 | 35 | 44 |
| W3 compared with 03 | | kg | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 34 | 34 | 34 | 29 | 29 | 34 | 34 |
| W4 compared with 04 | | kg | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 44 | 44 | 44 | 35 | 35 | 44 | 44 |

***For all the other configurations, contact the company***

## OPERATING RANGE

The units, in standard configuration, are not suitable for installation in salty environment.
The values indicated in the following tables refer to the min. and max. limits of the unit. For further information, refer to the tables of yields and consumptions different from the nominal ones, valid for ΔT = 5°C.
If the unit operates beyond the operational limits, we recommend you first contact our technical-sales service.
***Note: If the unit is installed in particularly windy areas, it is mandatory to have windbreak barriers to prevent unit malfunctions. It should be installed if wind speed is above 2.5 m/s***

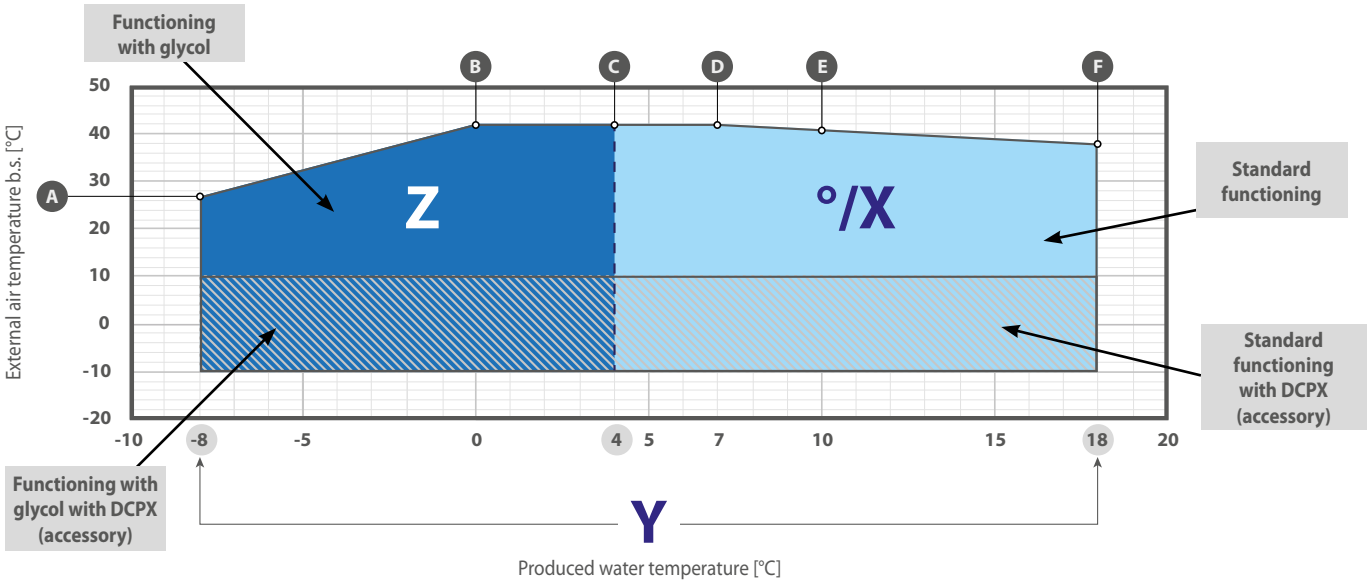
### VERSION ° - OPERATION IN COOLING MODE



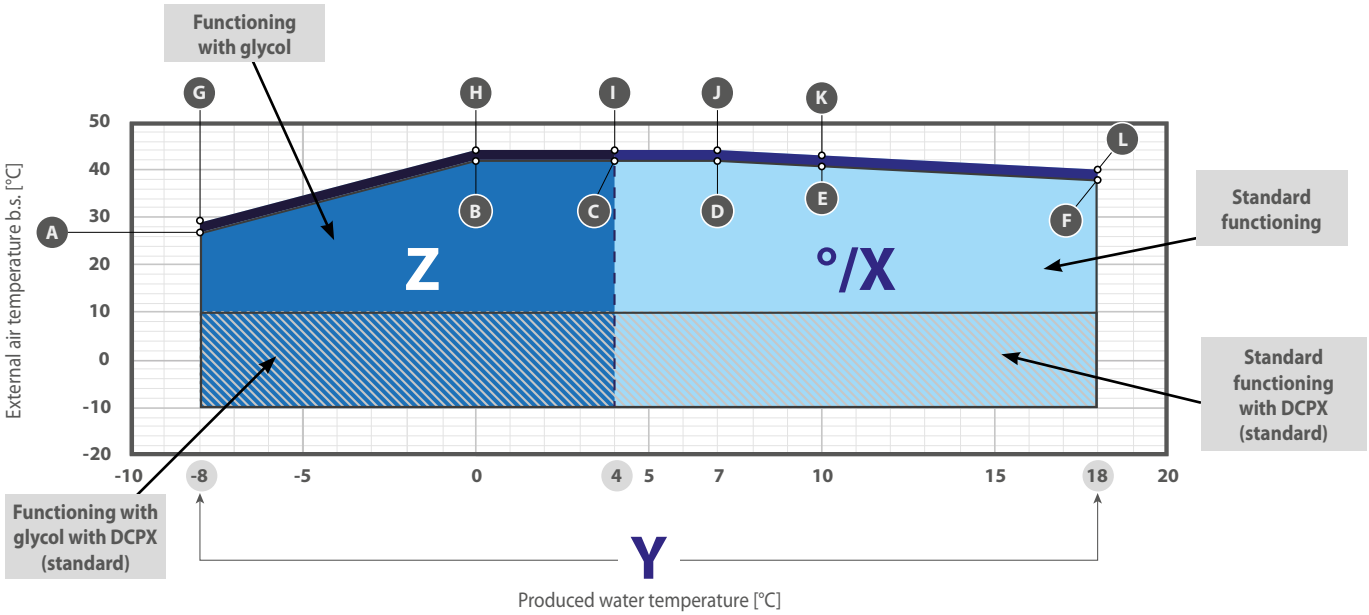

| ECL H | External air temperature (TA) (°C) | | | | | |
|---|---|---|---|---|---|---|
| Size | A | B | C | D | E | F |
| 0282 | - | - | - | - | - | - |
| 0302 | - | - | - | - | - | - |
| 0332 | - | - | - | - | - | - |
| 0352 | - | - | - | - | - | - |
| 0502 | 29 | 44 | 44 | **44** | 43 | 40 |
| 0552 | 27 | 42 | 42 | **42** | 41 | 38 |
| 0602 | 29 | 44 | 44 | **44** | 43 | 40 |
| 0652 | 27 | 42 | 42 | **42** | 41 | 38 |
| 0682 | 33 | 48 | 48 | **48** | 47 | 44 |
| 0702 | 31 | 46 | 46 | **46** | 45 | 42 |
| 0752 | 31 | 46 | 46 | **46** | 45 | 42 |
| 0604 | 27 | 42 | 42 | **42** | 41 | 38 |
| 0654 | 29 | 44 | 44 | **44** | 43 | 40 |
| 0704 | 33 | 48 | 48 | **48** | 47 | 44 |
| 0754 | 31 | 46 | 46 | **46** | 45 | 42 |

Sizes 0282-0302-0332-0352 are only available in the silenced versions "HL/HE"
The data shown in the table refer to machine operation with ° (standard)

## SILENCED VERSION L - OPERATION IN COOLING MODE



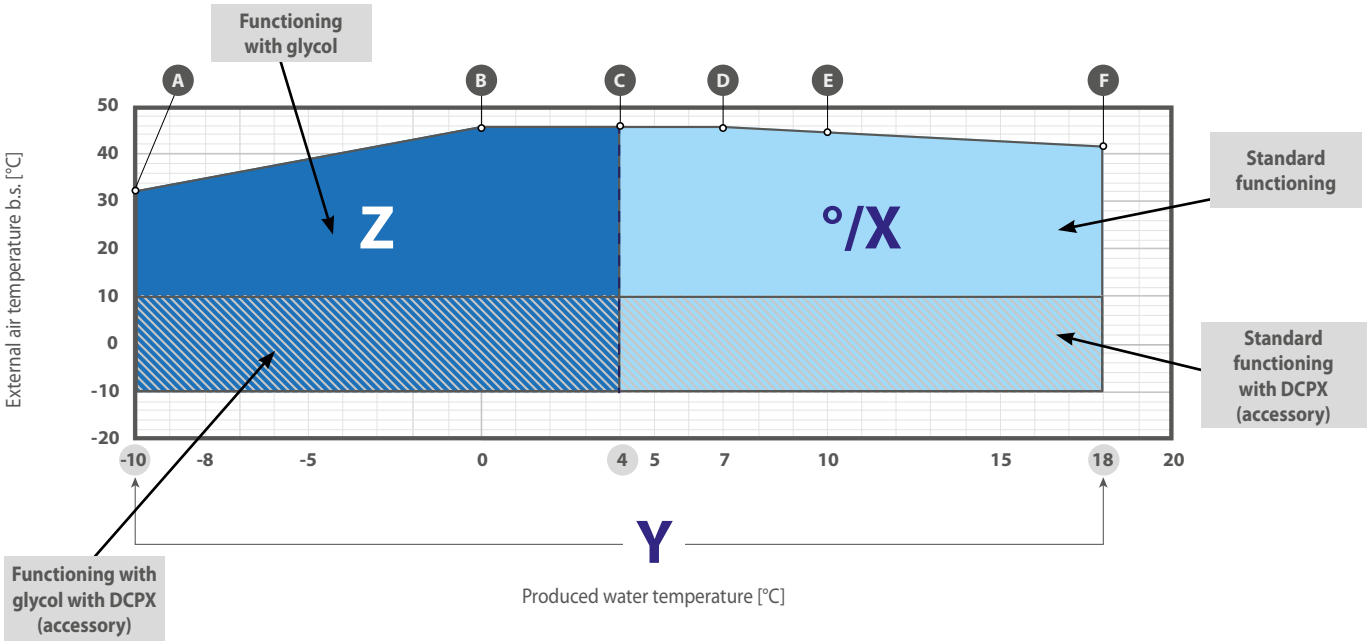

| ECL HL | External air temperature (TA) (°C) | | | | | |
|---|---|---|---|---|---|---|
| Size | A | B | C | D | E | F |
| 0282 | 27 | 42 | 42 | **42** | 41 | 38 |
| 0302 | 29 | 44 | 44 | **44** | 43 | 40 |
| 0332 | 29 | 44 | 44 | **44** | 43 | 40 |
| 0352 | 29 | 44 | 44 | **44** | 43 | 40 |




| ECL HL | SILENCED OPERATION | | | | | | NOT SILENCED OPERATION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | External air temperature (TA) (°C) | | | | | | External air temperature (TA) (°C) | | | | | |
| Size | A | B | C | D | E | F | G | H | I | J | K | L |
| 0502 | 27 | 42 | 42 | **42** | 41 | 38 | 29 | 44 | 44 | **44** | 43 | 40 |
| 0552 | 25 | 40 | 40 | **40** | 39 | 36 | 27 | 42 | 42 | **42** | 41 | 38 |
| 0602 | 25 | 40 | 40 | **40** | 39 | 36 | 29 | 44 | 44 | **44** | 43 | 40 |
| 0652 | 23 | 38 | 38 | **38** | 27 | 34 | 27 | 42 | 42 | **42** | 41 | 38 |
| 0682 | 31 | 46 | 46 | **46** | 45 | 42 | 33 | 48 | 48 | **48** | 47 | 44 |
| 0702 | 29 | 44 | 44 | **44** | 43 | 40 | 31 | 46 | 46 | **46** | 45 | 42 |
| 0752 | 27 | 42 | 42 | **42** | 41 | 38 | 31 | 46 | 46 | **46** | 45 | 42 |
| 0604 | 25 | 40 | 40 | **40** | 39 | 36 | 27 | 42 | 42 | **42** | 41 | 38 |
| 0654 | 27 | 42 | 42 | **42** | 41 | 38 | 29 | 44 | 44 | **44** | 43 | 40 |
| 0704 | 29 | 44 | 44 | **44** | 43 | 40 | 33 | 48 | 48 | **48** | 47 | 44 |
| 0754 | 27 | 42 | 42 | **42** | 41 | 38 | 31 | 46 | 46 | **46** | 45 | 42 |

The data shown in the table refer to machine operation with ° (standard)

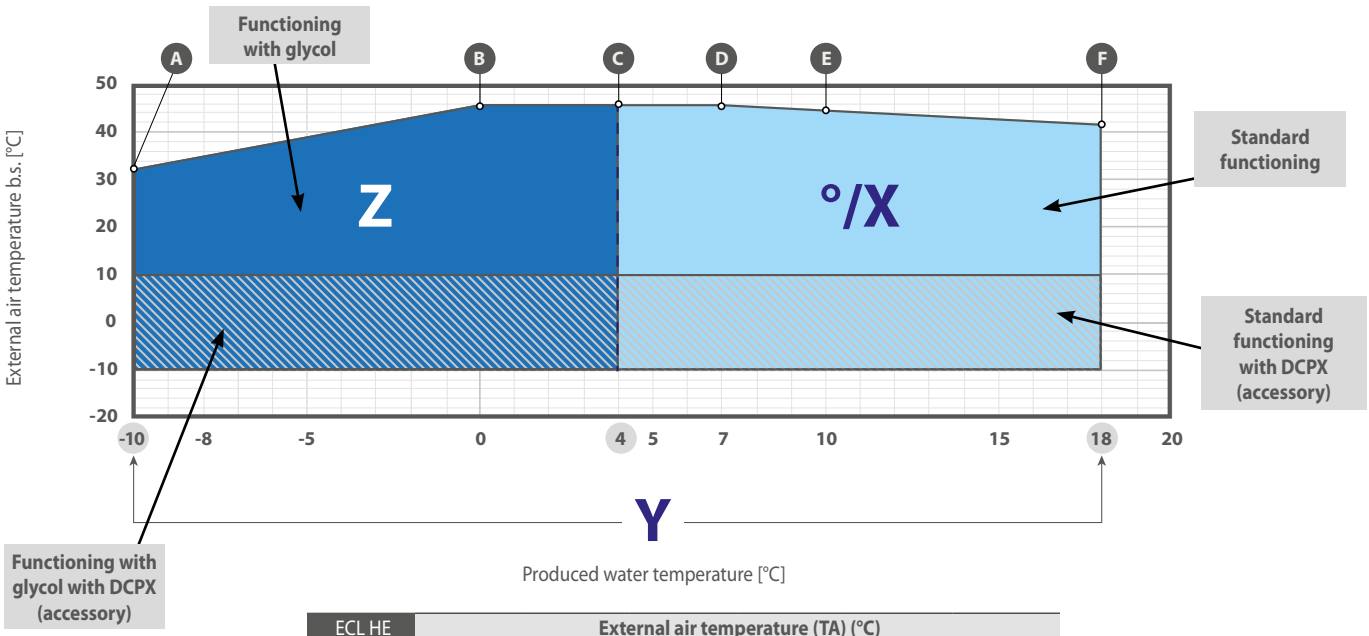
## VERSION A - OPERATION IN COOLING MODE



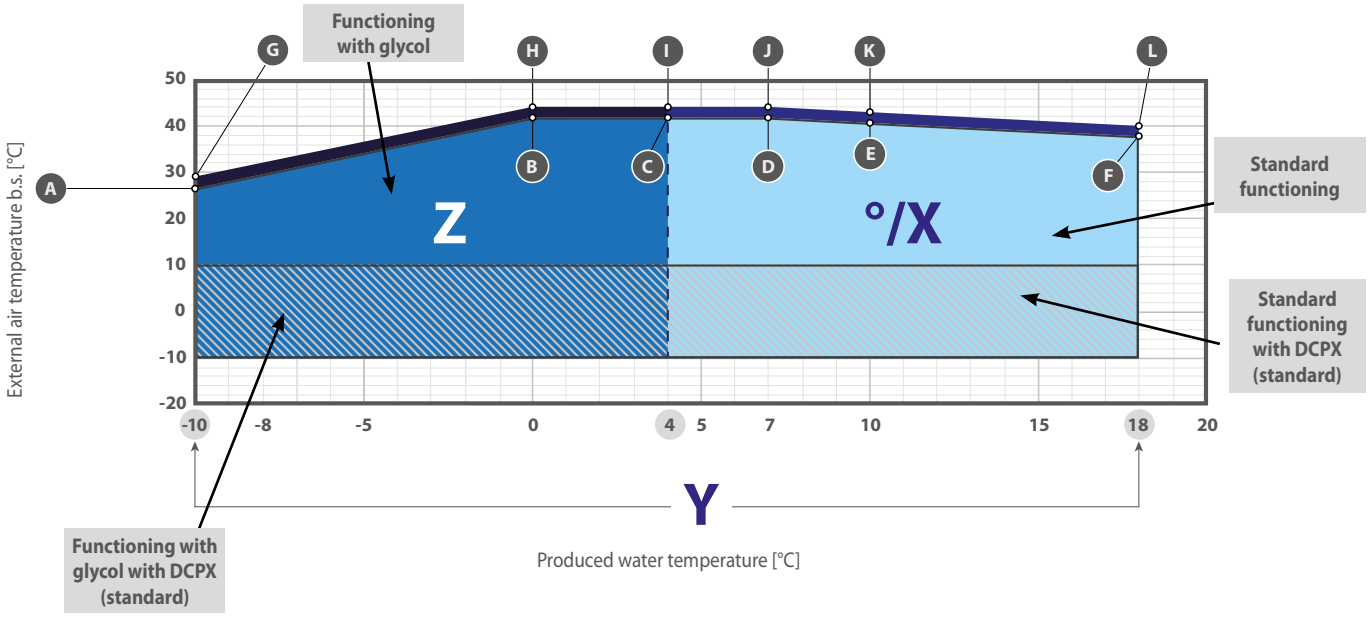

| ECL HA | External air temperature (TA) (°C) | | | | | |
|---|---|---|---|---|---|---|
| Size | A | B | C | D | E | F |
| 0282 | - | - | - | - | - | - |
| 0302 | - | - | - | - | - | - |
| 0332 | - | - | - | - | - | - |
| 0352 | - | - | - | - | - | - |
| 0502 | 31 | 46 | 46 | **46** | 45 | 42 |
| 0552 | 29 | 44 | 44 | **44** | 43 | 40 |
| 0602 | 31 | 46 | 46 | **46** | 45 | 42 |
| 0652 | 29 | 44 | 44 | **44** | 43 | 40 |
| 0682 | 33 | 48 | 48 | **48** | 47 | 44 |
| 0702 | 33 | 48 | 48 | **48** | 47 | 44 |
| 0752 | 31 | 46 | 46 | **46** | 45 | 42 |
| 0604 | 31 | 46 | 46 | **46** | 45 | 42 |
| 0654 | 33 | 48 | 48 | **48** | 47 | 44 |
| 0704 | 33 | 48 | 48 | **48** | 47 | 44 |
| 0754 | 31 | 46 | 46 | **46** | 45 | 42 |

Sizes 0282-0302-0332-0352 are only available in the silenced versions "HL/HE"
The data shown in the table refer to machine operation with ° (standard)

## SILENCED VERSION E - OPERATION IN COOLING MODE



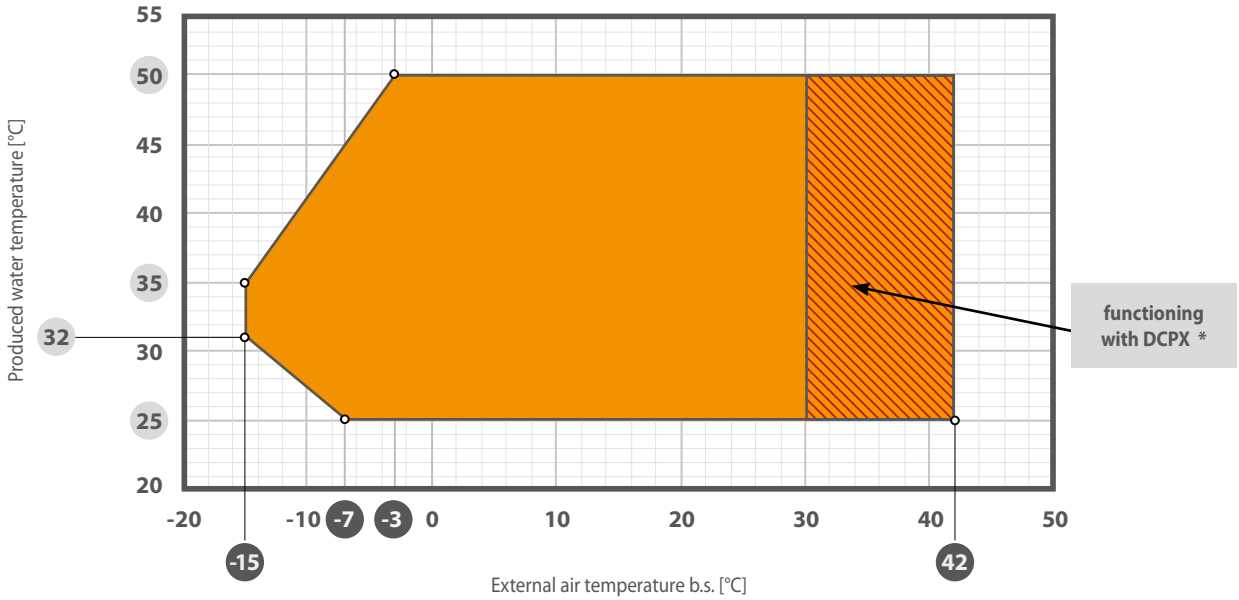

| ECL HE | External air temperature (TA) (°C) | | | | | |
|---|---|---|---|---|---|---|
| Size | A | B | C | D | E | F |
| 0282 | 31 | 46 | 46 | **46** | 45 | 42 |
| 0302 | 29 | 44 | 44 | **44** | 43 | 40 |
| 0332 | 31 | 46 | 46 | **46** | 45 | 42 |
| 0352 | 29 | 44 | 44 | **44** | 43 | 40 |




| ECL HE | SILENCED OPERATION | | | | | | NOT SILENCED OPERATION | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | External air temperature (TA) (°C) | | | | | | External air temperature (TA) (°C) | | | | | |
| Size | A | B | C | D | E | F | G | H | I | J | K | L |
| 0502 | 29 | 44 | 44 | **44** | 43 | 40 | 31 | 46 | 46 | **46** | 45 | 42 |
| 0552 | 27 | 42 | 42 | **42** | 41 | 38 | 29 | 44 | 44 | **44** | 43 | 40 |
| 0602 | 29 | 44 | 44 | **44** | 43 | 40 | 31 | 46 | 46 | **46** | 45 | 42 |
| 0652 | 27 | 42 | 42 | **42** | 41 | 38 | 29 | 44 | 44 | **44** | 43 | 40 |
| 0682 | 31 | 46 | 46 | **46** | 45 | 42 | 33 | 48 | 48 | **48** | 47 | 44 |
| 0702 | 31 | 46 | 46 | **46** | 45 | 42 | 33 | 48 | 48 | **48** | 47 | 44 |
| 0752 | 27 | 42 | 42 | **42** | 41 | 38 | 31 | 46 | 46 | **46** | 45 | 42 |
| 0604 | 29 | 44 | 44 | **44** | 43 | 40 | 31 | 46 | 46 | **46** | 45 | 42 |
| 0654 | 31 | 46 | 46 | **46** | 45 | 42 | 33 | 48 | 48 | **48** | 47 | 44 |
| 0704 | 31 | 46 | 46 | **46** | 45 | 42 | 33 | 48 | 48 | **48** | 47 | 44 |
| 0754 | 29 | 44 | 44 | **44** | 43 | 40 | 31 | 46 | 46 | **46** | 45 | 42 |

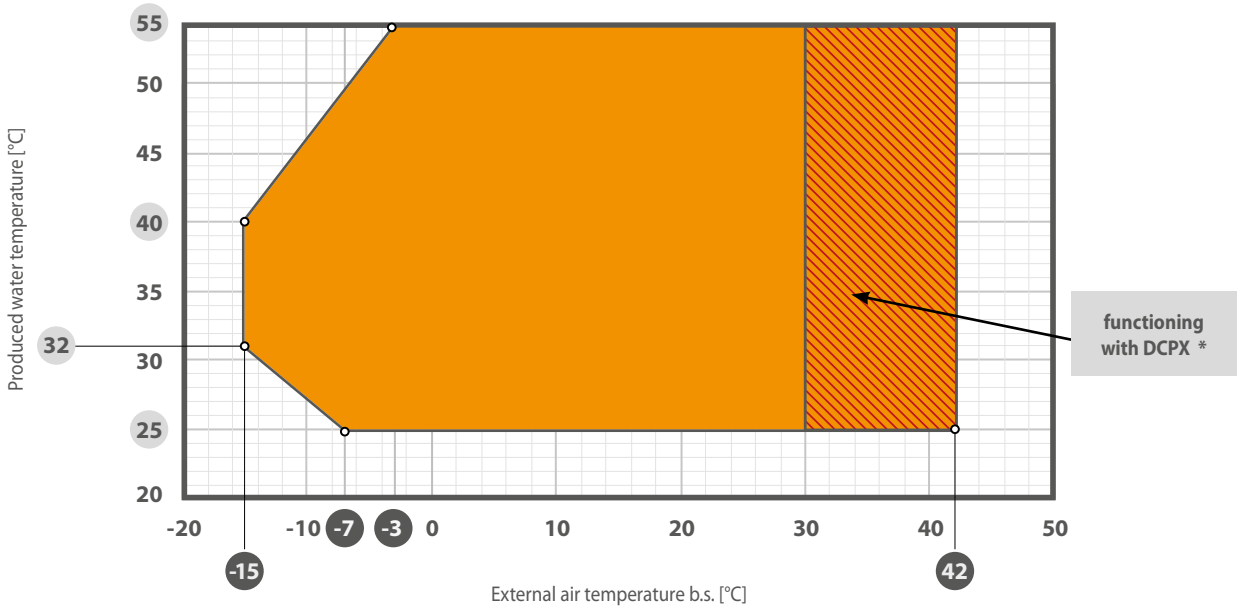
The data shown in the table refer to machine operation with ° (standard)

## VERSIONS °-L - OPERATION IN HEATING MODE




| | | |
|---|---|---|
| * | **version °** | DCPX accessory |
| | **version L** | DCPX accessory from 0282 to 0352 / DCPX standard from 0502 to 0754 |

## VERSIONS A-E - OPERATION IN HEATING MODE




| | | |
|---|---|---|
| * | **version A** | DCPX accessory |
| | **version E** | DCPX accessory from 0282 to 0352 / DCPX standard from 0502 to 0754 |

Sizes 0282-0302-0332-0352 are only available in the silenced versions "HL/HE"
The data shown in the table refer to machine operation with ° (standard)

## YIELDS AND ABSORPTION DIFFERENT THAN NOMINAL

valve Z | valve O valve X | double valve Y

TWu -8 °C | TWu 4 °C | TWu 18 °C

### OPERATION IN COOLING MODE - VERSION °

■ = DCPX accessory

#### 0502 °

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 77,9 | 76,0 | 72,1 | 66,0 | - | - | - | - | 83,3 | 81,5 | 77,2 | 70,8 | 62,9 | - | - | - | 88,8 | 87,2 | 82,6 | 75,8 | 67,6 | 63,0 | - | - |
| Pe | 14,4 | 16,0 | 19,1 | 22,8 | - | - | - | - | 14,6 | 16,3 | 19,4 | 23,1 | 27,9 | - | - | - | 14,9 | 16,6 | 19,6 | 23,4 | 28,3 | 31,2 | - | - |
| EER | 5,41 | 4,74 | 3,77 | 2,90 | - | - | - | - | 5,69 | 5,00 | 3,99 | 3,07 | 2,25 | - | - | - | 5,96 | 5,27 | 4,20 | 3,24 | 2,39 | 2,02 | - | - |
| Qu | 14924 | 14568 | 13804 | 12633 | - | - | - | - | 15839 | 15435 | 14623 | 13399 | 11906 | - | - | - | 16875 | 16342 | 15475 | 14194 | 12641 | 11780 | - | - |
| ΔP | 38 | 36 | 33 | 27 | - | - | - | - | 42 | 40 | 35 | 30 | 24 | - | - | - | 47 | 43 | 39 | 32 | 26 | 22 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 94,6 | 93,2 | 88,2 | 81,0 | 72,4 | 67,6 | 62,6 | - | 100,5 | 99,4 | 94,1 | 86,5 | 77,3 | 72,3 | 67,1 | 62,5 | 106,7 | 106,0 | 100,2 | 92,2 | 82,6 | 77,3 | 71,9 | 67,1 |
| Pe | 15,2 | 16,9 | 19,9 | 23,7 | 28,7 | 31,6 | 34,8 | - | 15,5 | 17,2 | 20,3 | 24,1 | 29,1 | 32,0 | 35,2 | 38,2 | 15,8 | 17,5 | 20,6 | 24,4 | 29,5 | 32,4 | 35,7 | 38,6 |
| EER | 6,23 | 5,53 | 4,42 | 3,42 | 2,52 | 2,14 | 1,80 | - | 6,49 | 5,80 | 4,64 | 3,59 | 2,66 | 2,26 | 1,90 | 1,64 | 6,75 | 6,07 | 4,87 | 3,77 | 2,80 | 2,38 | 2,01 | 1,74 |
| Qu | 17954 | 17288 | 16362 | 15020 | 13405 | 12510 | 11587 | - | 19077 | 18274 | 17285 | 15879 | 14197 | 13268 | 12312 | 11467 | 20241 | 19272 | 18217 | 16746 | 14995 | 14031 | 13041 | 12161 |
| ΔP | 53 | 47 | 42 | 35 | 28 | 25 | 21 | - | 60 | 51 | 46 | 39 | 31 | 27 | 23 | 20 | 67 | 56 | 50 | 42 | 34 | 29 | 25 | 22 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 113,1 | 112,8 | 106,5 | 98,0 | 88,0 | 82,4 | 76,8 | 71,7 | 119,8 | 119,4 | 113,9 | 104,9 | 94,2 | 88,4 | 82,4 | 77,0 | 123,1 | 122,8 | 117,1 | 107,9 | 97,0 | **91,2** | 84,9 | 79,4 |
| Pe | 16,1 | 17,8 | 20,9 | 24,8 | 29,9 | 32,9 | 36,2 | 39,1 | 16,5 | 18,1 | 21,3 | 25,2 | 30,4 | 33,4 | 36,7 | 39,7 | 16,7 | 18,3 | 21,5 | 25,4 | 30,6 | **33,5** | 36,9 | 39,9 |
| EER | 7,01 | 6,33 | 5,09 | 3,95 | 2,94 | 2,51 | 2,12 | 1,83 | 7,27 | 6,58 | 5,35 | 4,15 | 3,10 | 2,65 | 2,25 | 1,94 | 7,39 | 6,70 | 5,45 | 4,24 | 3,17 | **2,72** | 2,30 | 1,99 |
| Qu | 21445 | 20345 | 19218 | 17675 | 15850 | 14847 | 13820 | 12902 | 22693 | 21539 | 19676 | 18104 | 16256 | 15242 | 14204 | 13277 | 23331 | 22150 | 20240 | 18626 | 16734 | **15705** | 14637 | 13689 |
| ΔP | 74 | 61 | 54 | 46 | 37 | 32 | 28 | 24 | 83 | 68 | 54 | 46 | 37 | 33 | 28 | 25 | 87 | 72 | 58 | 49 | 39 | **35** | 30 | 26 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 126,2 | 120,4 | 110,9 | 99,7 | 93,6 | 87,4 | - | - | - | 127,0 | 117,0 | 105,4 | 99,0 | 92,5 | - | - | - | 133,9 | 123,4 | 111,2 | 104,5 | 97,7 | - |
| Pe | - | 18,5 | 21,7 | 25,6 | 30,8 | 33,8 | 37,2 | - | - | - | 22,1 | 26,1 | 31,3 | 34,3 | 37,6 | - | - | - | 22,5 | 26,5 | 31,7 | 34,8 | 38,1 | - |
| EER | - | 6,82 | 5,55 | 4,32 | 3,24 | 2,77 | 2,35 | - | - | - | 5,76 | 4,49 | 3,37 | 2,89 | 2,46 | - | - | - | 5,96 | 4,66 | 3,51 | 3,01 | 2,56 | - |
| Qu | - | 22771 | 20812 | 19157 | 17220 | 16161 | 15076 | - | - | - | 21986 | 20243 | 18215 | 17108 | 15973 | - | - | - | 23196 | 21363 | 19240 | 18085 | 16896 | - |
| ΔP | - | 76 | 61 | 52 | 42 | 37 | 32 | - | - | - | 68 | 58 | 47 | 41 | 36 | - | - | - | 76 | 64 | 52 | 46 | 40 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 129,9 | 117,2 | 110,2 | 103,1 | - | - | - | - | 136,6 | 123,3 | 116,1 | 108,6 | - | - | - | - | - | 129,6 | 122,1 | 114,3 | - |
| Pe | - | - | - | 27,0 | 32,2 | 35,3 | 38,6 | - | - | - | - | 27,4 | 32,7 | 35,8 | 39,1 | - | - | - | - | - | 33,2 | 36,3 | 39,7 | - |
| EER | - | - | - | 4,82 | 3,64 | 3,13 | 2,67 | - | - | - | - | 4,98 | 3,77 | 3,24 | 2,78 | - | - | - | - | - | 3,90 | 3,36 | 2,88 | - |
| Qu | - | - | - | 22517 | 20296 | 19090 | 17845 | - | - | - | - | 23705 | 21383 | 20124 | 18820 | - | - | - | - | - | 22501 | 21188 | 19821 | - |
| ΔP | - | - | - | 71 | 58 | 51 | 45 | - | - | - | - | 79 | 64 | 57 | 50 | - | - | - | - | - | 71 | 63 | 55 | - |

#### 0552 °

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | - | - | - |
| Pc | 84,9 | 83,0 | 78,7 | 72,2 | - | - | - | - | 90,7 | 88,8 | 84,2 | 77,4 | 69,2 | - | - | - | 96,5 | 94,9 | 90,0 | 82,8 | 74,2 | - | - | - |
| Pe | 15,6 | 17,4 | 21,0 | 25,0 | - | - | - | - | 15,9 | 17,8 | 21,4 | 25,4 | 30,7 | - | - | - | 16,3 | 18,2 | 21,7 | 25,8 | 31,2 | - | - | - |
| EER | 5,46 | 4,76 | 3,75 | 2,89 | - | - | - | - | 5,70 | 4,99 | 3,95 | 3,04 | 2,25 | - | - | - | 5,93 | 5,22 | 4,14 | 3,20 | 2,38 | - | - | - |
| Qu | 16273 | 15908 | 15081 | 13830 | - | - | - | - | 17246 | 16831 | 15961 | 14654 | 13097 | - | - | - | 18350 | 17797 | 16875 | 15509 | 13883 | - | - | - |
| ΔP | 46 | 44 | 39 | 33 | - | - | - | - | 50 | 47 | 43 | 36 | 29 | - | - | - | 56 | 51 | 46 | 39 | 31 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | - | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 102,6 | 101,3 | 96,1 | 88,4 | 79,3 | 74,3 | - | - | 109,0 | 108,0 | 102,4 | 94,3 | 84,7 | 79,4 | 74,0 | 71,7 | 115,6 | 115,0 | 109,0 | 100,5 | 90,3 | 84,8 | 79,0 | 76,6 |
| Pe | 16,7 | 18,6 | 22,1 | 26,3 | 31,7 | 34,9 | - | - | 17,1 | 19,0 | 22,5 | 26,8 | 32,2 | 35,4 | 39,0 | 40,5 | 17,5 | 19,4 | 23,0 | 27,2 | 32,8 | 36,0 | 39,5 | 41,1 |
| EER | 6,16 | 5,46 | 4,34 | 3,36 | 2,50 | 2,13 | - | - | 6,38 | 5,69 | 4,54 | 3,52 | 2,63 | 2,24 | 1,90 | 1,77 | 6,60 | 5,93 | 4,75 | 3,69 | 2,76 | 2,36 | 2,00 | 1,86 |
| Qu | 19501 | 18804 | 17828 | 16399 | 14701 | 13770 | - | - | 20696 | 19855 | 18819 | 17324 | 15551 | 14578 | 13574 | 13148 | 21934 | 20918 | 19818 | 18256 | 16409 | 15394 | 14345 | 13896 |
| ΔP | 63 | 56 | 50 | 43 | 34 | 30 | - | - | 71 | 61 | 55 | 46 | 37 | 33 | 28 | 27 | 79 | 66 | 59 | 50 | 41 | 36 | 31 | 29 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 122,4 | 122,2 | 115,8 | 106,8 | 96,1 | 90,3 | 84,2 | 81,6 | 129,4 | 129,2 | 123,7 | 114,1 | 102,9 | 96,7 | 90,2 | 87,5 | 133,0 | 132,8 | 127,1 | 117,3 | 105,8 | **99,7** | 92,9 | 90,0 |
| Pe | 17,9 | 19,8 | 23,4 | 27,7 | 33,3 | 36,6 | 40,1 | 41,7 | 18,4 | 20,3 | 23,9 | 28,3 | 33,9 | 37,2 | 40,8 | 42,4 | 18,7 | 20,5 | 24,1 | 28,5 | 34,2 | **37,5** | 41,1 | 42,7 |
| EER | 6,82 | 6,16 | 4,94 | 3,85 | 2,89 | 2,47 | 2,10 | 1,96 | 7,02 | 6,37 | 5,18 | 4,04 | 3,03 | 2,60 | 2,21 | 2,06 | 7,11 | 6,47 | 5,27 | 4,11 | 3,09 | **2,66** | 2,26 | 2,11 |
| Qu | 23218 | 22059 | 20891 | 19257 | 17327 | 16267 | 15170 | 14697 | 24543 | 23333 | 21373 | 19712 | 17754 | 16680 | 15564 | 15083 | 25223 | 23983 | 21977 | 20274 | 18268 | **17176** | 16026 | 15531 |
| ΔP | 88 | 72 | 65 | 55 | 44 | 39 | 34 | 32 | 98 | 80 | 65 | 55 | 45 | 39 | 34 | 32 | 103 | 85 | 69 | 58 | 47 | **42** | 36 | 34 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 136,6 | 136,5 | 130,6 | 120,6 | 108,8 | 102,3 | 95,5 | - | - | 143,9 | 137,7 | 127,2 | 114,8 | 108,1 | 101,0 | - | - | - | 145,0 | 134,0 | 121,1 | 114,0 | 106,6 | - |
| Pe | 19,0 | 20,8 | 24,4 | 28,8 | 34,5 | 37,8 | 41,4 | - | - | 21,3 | 24,8 | 29,3 | 35,1 | 38,4 | 42,0 | - | - | - | 25,4 | 29,9 | 35,7 | 39,0 | 42,7 | - |
| EER | 7,20 | 6,56 | 5,36 | 4,19 | 3,15 | 2,71 | 2,31 | - | - | 6,75 | 5,54 | 4,33 | 3,27 | 2,81 | 2,40 | - | - | - | 5,71 | 4,48 | 3,39 | 2,92 | 2,50 | - |
| Qu | 25912 | 24645 | 22591 | 20845 | 18791 | 17666 | 16494 | - | - | 25997 | 23846 | 22013 | 19861 | 18682 | 17453 | - | - | - | 25140 | 23216 | 20962 | 19728 | 18440 | - |
| ΔP | 109 | 89 | 72 | 62 | 50 | 44 | 39 | - | - | 99 | 81 | 69 | 56 | 50 | 43 | - | - | - | 90 | 76 | 62 | 55 | 48 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - | - |
| Pc | - | - | - | 141,0 | 127,5 | 120,1 | - | - | - | - | - | 148,1 | 134,0 | 126,3 | - | - | - | - | - | - | 140,8 | 132,7 | - | - |
| Pe | - | - | - | 30,5 | 36,3 | 39,6 | - | - | - | - | - | 31,1 | 36,9 | 40,3 | - | - | - | - | - | - | 37,6 | 41,0 | - | - |
| EER | - | - | - | 4,62 | 3,51 | 3,03 | - | - | - | - | - | 4,76 | 3,63 | 3,13 | - | - | - | - | - | - | 3,75 | 3,24 | - | - |
| Qu | - | - | - | 24454 | 22096 | 20806 | - | - | - | - | - | 25727 | 23261 | 21913 | - | - | - | - | - | - | 24459 | 23051 | - | - |
| ΔP | - | - | - | 85 | 69 | 61 | - | - | - | - | - | 94 | 77 | 68 | - | - | - | - | - | - | 85 | 75 | - | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve O | valve X | double valve Y

## OPERATION IN COOLING MODE - VERSION °

= DCPX accessory

*TWu* -8 °C | *TWu* 4 °C | *TWu* 18 °C

### 0602 °

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 99,0 | 96,8 | 91,7 | 84,0 | - | - | - | - | 105,7 | 103,6 | 98,1 | 90,1 | 80,5 | - | - | - | 112,4 | 110,6 | 104,9 | 96,3 | 86,3 | 80,8 | - | - |
| Pe | 17,4 | 19,8 | 23,9 | 28,5 | - | - | - | - | 17,8 | 20,2 | 24,3 | 29,0 | 35,0 | - | - | - | 18,2 | 20,6 | 24,7 | 29,4 | 35,6 | 39,2 | - | - |
| EER | 5,68 | 4,90 | 3,83 | 2,95 | - | - | - | - | 5,93 | 5,14 | 4,04 | 3,11 | 2,30 | - | - | - | 6,16 | 5,37 | 4,24 | 3,27 | 2,43 | 2,06 | - | - |
| Qu | 18967 | 18547 | 17559 | 16090 | - | - | - | - | 20086 | 19611 | 18578 | 17043 | 15233 | - | - | - | 21357 | 20721 | 19638 | 18034 | 16145 | 15112 | - | - |
| ΔP | 41 | 39 | 35 | 29 | - | - | - | - | 45 | 42 | 38 | 32 | 25 | - | - | - | 50 | 46 | 41 | 35 | 28 | 24 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 119,5 | 118,0 | 111,9 | 102,9 | 92,3 | 86,5 | 80,4 | - | 126,7 | 125,6 | 119,1 | 109,7 | 98,5 | 92,4 | 86,0 | 80,6 | 134,3 | 133,7 | 126,8 | 116,8 | 105,1 | 98,6 | 91,8 | 86,1 |
| Pe | 18,7 | 21,0 | 25,2 | 29,9 | 36,1 | 39,7 | 43,7 | - | 19,1 | 21,5 | 25,6 | 30,4 | 36,7 | 40,3 | 44,3 | 47,9 | 19,6 | 21,9 | 26,1 | 31,0 | 37,3 | 40,9 | 45,0 | 48,6 |
| EER | 6,40 | 5,61 | 4,45 | 3,44 | 2,56 | 2,18 | 1,84 | - | 6,63 | 5,85 | 4,65 | 3,60 | 2,69 | 2,29 | 1,94 | 1,68 | 6,85 | 6,09 | 4,86 | 3,77 | 2,82 | 2,41 | 2,04 | 1,77 |
| Qu | 22677 | 21878 | 20740 | 19066 | 17092 | 16012 | 14889 | - | 24047 | 23084 | 21886 | 20139 | 18078 | 16951 | 15769 | 14781 | 25466 | 24301 | 23039 | 21220 | 19073 | 17898 | 16659 | 15617 |
| ΔP | 56 | 50 | 45 | 38 | 30 | 27 | 23 | - | 63 | 54 | 49 | 41 | 33 | 29 | 25 | 22 | 70 | 58 | 52 | 45 | 36 | 32 | 27 | 24 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 142,1 | 142,0 | 134,6 | 124,2 | 111,8 | 105,0 | 97,9 | 91,8 | 150,1 | 150,0 | 143,8 | 132,7 | 119,6 | 112,5 | 104,9 | 98,4 | 154,2 | 154,1 | 147,7 | 136,4 | 123,1 | **116,0** | 107,9 | 101,3 |
| Pe | 20,1 | 22,4 | 26,6 | 31,5 | 37,9 | 41,6 | 45,6 | 49,3 | 20,6 | 22,9 | 27,2 | 32,1 | 38,6 | 42,3 | 46,4 | 50,1 | 20,9 | 23,2 | 27,4 | 32,4 | 38,9 | **42,6** | 46,7 | 50,4 |
| EER | 7,07 | 6,32 | 5,06 | 3,94 | 2,95 | 2,53 | 2,14 | 1,86 | 7,27 | 6,54 | 5,29 | 4,13 | 3,10 | 2,66 | 2,26 | 1,96 | 7,37 | 6,64 | 5,39 | 4,21 | 3,17 | **2,72** | 2,31 | 2,01 |
| Qu | 26933 | 25607 | 24276 | 22378 | 20140 | 18913 | 17615 | 16517 | 28446 | 27063 | 24825 | 22902 | 20636 | 19394 | 18075 | 16953 | 29221 | 27808 | 25519 | 23553 | 21235 | **19972** | 18612 | 17461 |
| ΔP | 78 | 64 | 57 | 49 | 39 | 35 | 30 | 26 | 86 | 71 | 57 | 49 | 40 | 35 | 30 | 27 | 91 | 75 | 61 | 52 | 42 | **37** | 32 | 28 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 158,4 | 158,3 | 151,7 | 140,2 | 126,5 | 119,0 | 111,0 | - | - | 166,8 | 159,9 | 147,8 | 133,6 | 125,7 | 117,4 | - | - | - | 168,3 | 155,7 | 140,8 | 132,6 | 124,0 | - |
| Pe | 21,2 | 23,5 | 27,7 | 32,7 | 39,2 | 42,9 | 47,0 | - | - | 24,1 | 28,3 | 33,3 | 39,8 | 43,6 | 47,7 | - | - | - | 28,9 | 34,0 | 40,5 | 44,3 | 48,4 | - |
| EER | 7,46 | 6,74 | 5,48 | 4,28 | 3,23 | 2,77 | 2,36 | - | - | 6,92 | 5,66 | 4,43 | 3,35 | 2,88 | 2,46 | - | - | - | 5,83 | 4,59 | 3,48 | 2,99 | 2,56 | - |
| Qu | 30007 | 28562 | 26225 | 24213 | 21842 | 20541 | 19157 | - | - | 30105 | 27666 | 25562 | 23084 | 21724 | 20276 | - | - | - | 29148 | 26950 | 24362 | 22942 | 21431 | - |
| ΔP | 95 | 79 | 64 | 55 | 44 | 39 | 34 | - | - | 87 | 71 | 61 | 50 | 44 | 38 | - | - | - | 79 | 68 | 55 | 49 | 43 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 163,7 | 148,2 | 139,7 | 130,7 | - | - | - | - | 172,0 | 155,9 | 147,0 | 137,7 | - | - | - | - | - | 163,7 | 154,5 | 144,8 | - |
| Pe | - | - | - | 34,6 | 41,2 | 45,0 | 49,1 | - | - | - | - | 35,3 | 41,9 | 45,7 | 49,9 | - | - | - | - | - | 42,7 | 46,5 | 50,7 | - |
| EER | - | - | - | 4,73 | 3,60 | 3,10 | 2,66 | - | - | - | - | 4,87 | 3,72 | 3,21 | 2,76 | - | - | - | - | - | 3,84 | 3,32 | 2,86 | - |
| Qu | - | - | - | 28376 | 25676 | 24194 | 22622 | - | - | - | - | 29839 | 27026 | 25481 | 23850 | - | - | - | - | - | 28411 | 26802 | 25113 | - |
| ΔP | - | - | - | 75 | 61 | 54 | 48 | - | - | - | - | 83 | 68 | 60 | 53 | - | - | - | - | - | 75 | 67 | 59 | - |

### 0652 °

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | - | - | - |
| Pc | 109,7 | 106,8 | 100,5 | 91,7 | - | - | - | - | 116,9 | 114,0 | 107,4 | 98,1 | 87,6 | - | - | - | 124,1 | 121,5 | 114,5 | 104,8 | 93,7 | - | - | - |
| Pe | 19,4 | 22,0 | 26,7 | 31,8 | - | - | - | - | 19,8 | 22,5 | 27,1 | 32,3 | 39,2 | - | - | - | 20,3 | 23,0 | 27,6 | 32,8 | 39,7 | - | - | - |
| EER | 5,67 | 4,85 | 3,76 | 2,88 | - | - | - | - | 5,90 | 5,07 | 3,96 | 3,04 | 2,24 | - | - | - | 6,11 | 5,29 | 4,15 | 3,19 | 2,36 | - | - | - |
| Qu | 21038 | 20479 | 19249 | 17566 | - | - | - | - | 22232 | 21608 | 20335 | 18579 | 16576 | - | - | - | 23582 | 22784 | 21460 | 19631 | 17536 | - | - | - |
| ΔP | 50 | 47 | 42 | 35 | - | - | - | - | 55 | 51 | 45 | 38 | 30 | - | - | - | 61 | 55 | 49 | 41 | 33 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | - | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 131,5 | 129,3 | 122,0 | 111,8 | 100,0 | 93,6 | - | - | 139,2 | 137,4 | 129,7 | 119,0 | 106,6 | 99,9 | 92,7 | 89,8 | 147,1 | 146,0 | 137,8 | 126,6 | 113,6 | 106,5 | 98,8 | 95,8 |
| Pe | 20,8 | 23,5 | 28,1 | 33,4 | 40,4 | 44,5 | - | - | 21,3 | 24,0 | 28,6 | 34,0 | 41,0 | 45,1 | 49,6 | 51,6 | 21,8 | 24,5 | 29,2 | 34,6 | 41,7 | 45,8 | 50,4 | 52,4 |
| EER | 6,33 | 5,51 | 4,34 | 3,35 | 2,48 | 2,11 | - | - | 6,54 | 5,73 | 4,53 | 3,50 | 2,60 | 2,21 | 1,87 | 1,74 | 6,73 | 5,96 | 4,72 | 3,66 | 2,72 | 2,32 | 1,96 | 1,83 |
| Qu | 24980 | 24004 | 22627 | 20724 | 18535 | 17344 | - | - | 26426 | 25271 | 23835 | 21857 | 19573 | 18329 | 17007 | 16477 | 27915 | 26543 | 25048 | 22995 | 20620 | 19323 | 17934 | 17372 |
| ΔP | 68 | 60 | 53 | 45 | 36 | 31 | - | - | 75 | 65 | 58 | 48 | 39 | 34 | 29 | 28 | 84 | 70 | 62 | 52 | 42 | 37 | 32 | 30 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 155,2 | 154,6 | 146,0 | 134,3 | 120,6 | 113,2 | 105,1 | 101,8 | 163,6 | 163,0 | 155,7 | 143,3 | 128,9 | 121,0 | 112,5 | 109,0 | 167,8 | 167,3 | 159,8 | 147,2 | 132,5 | **124,7** | 115,7 | 112,1 |
| Pe | 22,4 | 25,1 | 29,8 | 35,2 | 42,4 | 46,6 | 51,1 | 53,1 | 23,1 | 25,7 | 30,4 | 35,9 | 43,2 | 47,4 | 52,0 | 54,0 | 23,4 | 26,0 | 30,7 | 36,3 | 43,5 | **47,8** | 52,4 | 54,4 |
| EER | 6,92 | 6,16 | 4,91 | 3,81 | 2,85 | 2,43 | 2,06 | 1,92 | 7,09 | 6,35 | 5,13 | 3,99 | 2,99 | 2,55 | 2,16 | 2,02 | 7,18 | 6,43 | 5,21 | 4,06 | 3,04 | **2,61** | 2,21 | 2,06 |
| Qu | 29450 | 27907 | 26346 | 24214 | 21742 | 20388 | 18930 | 18336 | 31027 | 29426 | 26893 | 24743 | 22245 | 20876 | 19393 | 18786 | 31832 | 30201 | 27620 | 25426 | 22874 | **21483** | 19956 | 19331 |
| ΔP | 93 | 75 | 67 | 57 | 46 | 40 | 35 | 33 | 102 | 84 | 67 | 57 | 46 | 41 | 35 | 33 | 108 | 88 | 71 | 60 | 49 | **43** | 37 | 35 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 172,1 | 171,6 | 164,0 | 151,1 | 136,1 | 127,9 | 118,9 | - | - | 180,4 | 172,4 | 159,1 | 143,5 | 134,9 | 125,6 | - | - | - | 181,1 | 167,3 | 151,1 | 142,2 | 132,5 | - |
| Pe | 23,7 | 26,3 | 31,0 | 36,6 | 43,9 | 48,1 | 52,7 | - | - | 27,0 | 31,7 | 37,3 | 44,6 | 48,9 | 53,5 | - | - | - | 32,4 | 38,0 | 45,4 | 49,7 | 54,3 | - |
| EER | 7,26 | 6,52 | 5,29 | 4,13 | 3,10 | 2,66 | 2,25 | - | - | 6,68 | 5,44 | 4,27 | 3,22 | 2,76 | 2,35 | - | - | - | 5,59 | 4,40 | 3,33 | 2,86 | 2,44 | - |
| Qu | 32647 | 30986 | 28357 | 26118 | 23512 | 22081 | 20527 | - | - | 32585 | 29859 | 27530 | 24814 | 23321 | 21699 | - | - | - | 31398 | 28978 | 26151 | 24595 | 22910 | - |
| ΔP | 113 | 93 | 75 | 63 | 51 | 45 | 39 | - | - | 102 | 83 | 70 | 57 | 51 | 44 | - | - | - | 92 | 78 | 64 | 56 | 49 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - | - |
| Pc | - | - | 189,9 | 175,6 | 158,8 | 149,6 | - | - | - | - | - | 184,1 | 166,8 | 157,1 | - | - | - | - | - | 192,8 | 174,8 | 164,9 | - | - |
| Pe | - | - | 33,1 | 38,8 | 46,2 | 50,5 | - | - | - | - | - | 39,7 | 47,0 | 51,3 | - | - | - | - | - | 40,5 | 47,9 | 52,2 | - | - |
| EER | - | - | 5,73 | 4,52 | 3,44 | 2,96 | - | - | - | - | - | 4,64 | 3,55 | 3,06 | - | - | - | - | - | 4,76 | 3,65 | 3,16 | - | - |
| Qu | - | - | 32973 | 30461 | 27523 | 25904 | - | - | - | - | - | 31980 | 28928 | 27245 | - | - | - | - | - | 33532 | 30367 | 28620 | - | - |
| ΔP | - | - | 101 | 86 | 70 | 62 | - | - | - | - | - | 95 | 78 | 69 | - | - | - | - | - | 104 | 86 | 76 | - | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve o | valve X | double valve Y

**OPERATION IN COOLING MODE - VERSION °**

= DCPX accessory

*TWu* -8 °C | *TWu* 4 °C | *TWu* 18 °C

**0682 °**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | 29 | - | - | - | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 122,4 | 121,0 | 116,1 | 107,6 | 96,7 | - | - | - | 130,9 | 129,6 | 124,4 | 115,4 | 103,8 | 97,4 | - | - | 139,6 | 138,6 | 133,0 | 123,4 | 111,3 | 104,5 | 97,3 | - |
| Pe | 22,5 | 25,0 | 29,8 | 35,4 | 42,9 | - | - | - | 22,9 | 25,5 | 30,2 | 35,8 | 43,3 | 47,8 | - | - | 23,4 | 25,9 | 30,7 | 36,3 | 43,8 | 48,3 | 53,3 | - |
| EER | 5,45 | 4,84 | 3,90 | 3,04 | 2,26 | - | - | - | 5,71 | 5,09 | 4,12 | 3,22 | 2,40 | 2,04 | - | - | 5,96 | 5,34 | 4,34 | 3,40 | 2,54 | 2,16 | 1,83 | - |
| Qu | 23461 | 23184 | 22257 | 20614 | 18516 | - | - | - | 24895 | 24547 | 23565 | 21840 | 19649 | 18421 | - | - | 26520 | 25974 | 24932 | 23121 | 20834 | 19553 | 18210 | - |
| ΔP | 50 | 49 | 45 | 38 | 31 | - | - | - | 55 | 53 | 49 | 42 | 34 | 30 | - | - | 62 | 57 | 53 | 45 | 37 | 33 | 28 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 148,6 | 148,0 | 142,1 | 131,9 | 119,1 | 111,9 | 104,4 | - | 157,9 | 157,9 | 151,5 | 140,7 | 127,2 | 119,7 | 111,7 | 97,8 | 167,6 | 168,3 | 161,4 | 150,0 | 135,9 | 127,9 | 119,5 | 104,8 |
| Pe | 23,9 | 26,5 | 31,2 | 36,8 | 44,3 | 48,8 | 53,9 | - | 24,5 | 27,0 | 31,7 | 37,3 | 44,9 | 49,4 | 54,4 | 64,0 | 25,1 | 27,6 | 32,3 | 37,9 | 45,5 | 50,0 | 55,0 | 64,6 |
| EER | 6,21 | 5,59 | 4,56 | 3,58 | 2,69 | 2,29 | 1,94 | - | 6,44 | 5,84 | 4,78 | 3,77 | 2,83 | 2,42 | 2,05 | 1,53 | 6,67 | 6,09 | 5,00 | 3,96 | 2,99 | 2,56 | 2,17 | 1,62 |
| Qu | 28216 | 27466 | 26357 | 24459 | 22072 | 20736 | 19331 | - | 29980 | 29024 | 27842 | 25853 | 23364 | 21972 | 20502 | 17934 | 31812 | 30602 | 29345 | 27265 | 24673 | 23226 | 21692 | 19011 |
| ΔP | 69 | 63 | 58 | 50 | 40 | 36 | 31 | - | 78 | 68 | 63 | 54 | 44 | 39 | 34 | 26 | 87 | 74 | 68 | 59 | 48 | 43 | 37 | 29 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 177,6 | 178,9 | 171,6 | 159,6 | 144,7 | 136,4 | 127,5 | 112,1 | 188,0 | 189,3 | 183,5 | 170,8 | 155,0 | 146,2 | 136,9 | 120,5 | 193,3 | 194,7 | 188,6 | 175,6 | 159,5 | **151,0** | 141,0 | 124,3 |
| Pe | 25,8 | 28,3 | 32,9 | 38,5 | 46,1 | 50,6 | 55,6 | 65,2 | 26,5 | 29,0 | 33,5 | 39,2 | 46,8 | 51,4 | 56,4 | 66,0 | 26,9 | 29,3 | 33,9 | 39,5 | 47,1 | **51,7** | 56,7 | 66,3 |
| EER | 6,88 | 6,33 | 5,22 | 4,14 | 3,14 | 2,69 | 2,29 | 1,72 | 7,08 | 6,54 | 5,47 | 4,36 | 3,31 | 2,85 | 2,43 | 1,83 | 7,18 | 6,64 | 5,57 | 4,44 | 3,38 | **2,92** | 2,49 | 1,87 |
| Qu | 33710 | 32300 | 30961 | 28781 | 26080 | 24573 | 22972 | 20173 | 35676 | 34193 | 31702 | 29486 | 26752 | 25229 | 23608 | 20775 | 36682 | 35162 | 32612 | 30341 | 27544 | **25997** | 24328 | 21431 |
| ΔP | 97 | 81 | 74 | 64 | 53 | 47 | 41 | 32 | 108 | 90 | 75 | 65 | 53 | 47 | 41 | 32 | 114 | 96 | 79 | 68 | 56 | **50** | 44 | 34 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 198,7 | 200,1 | 193,8 | 180,5 | 164,1 | 154,9 | 145,2 | - | - | 211,2 | 204,5 | 190,6 | 173,5 | 163,9 | 153,7 | - | - | - | 215,5 | 200,9 | 183,1 | 173,2 | 162,6 | - |
| Pe | 27,3 | 29,7 | 34,2 | 39,9 | 47,5 | 52,0 | 57,0 | - | - | 30,5 | 35,0 | 40,6 | 48,1 | 52,7 | 57,6 | - | - | - | 35,8 | 41,4 | 48,9 | 53,4 | 58,3 | - |
| EER | 7,27 | 6,74 | 5,66 | 4,53 | 3,46 | 2,98 | 2,55 | - | - | 6,92 | 5,85 | 4,69 | 3,60 | 3,11 | 2,67 | - | - | - | 6,02 | 4,86 | 3,75 | 3,24 | 2,79 | - |
| Qu | 37707 | 36147 | 33537 | 31209 | 28348 | 26757 | 25062 | - | - | 38164 | 35431 | 32988 | 29998 | 28336 | 26568 | - | - | - | 37385 | 34824 | 31701 | 29968 | 28127 | - |
| ΔP | 120 | 101 | 84 | 72 | 60 | 53 | 47 | - | - | 112 | 93 | 81 | 67 | 60 | 52 | - | - | - | 104 | 90 | 75 | 67 | 59 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 211,5 | 193,0 | 182,7 | 171,7 | - | - | - | - | 222,4 | 203,1 | 192,4 | 181,1 | - | - | - | - | - | 213,6 | 202,4 | 190,7 | - |
| Pe | - | - | - | 42,2 | 49,7 | 54,1 | 59,0 | - | - | - | - | 43,1 | 50,5 | 55,0 | 59,8 | - | - | - | - | - | 51,4 | 55,8 | 60,7 | - |
| EER | - | - | - | 5,01 | 3,89 | 3,37 | 2,91 | - | - | - | - | 5,17 | 4,02 | 3,50 | 3,03 | - | - | - | - | - | 4,16 | 3,63 | 3,14 | - |
| Qu | - | - | - | 36716 | 33458 | 31651 | 29737 | - | - | - | - | 38663 | 35267 | 33386 | 31400 | - | - | - | - | - | 37129 | 35172 | 33115 | - |
| ΔP | - | - | - | 100 | 83 | 74 | 66 | - | - | - | - | 111 | 92 | 83 | 73 | - | - | - | - | - | 102 | 92 | 82 | - |

**0702 °**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | 29 | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 140,9 | 138,3 | 132,4 | 122,5 | 109,8 | - | - | - | 150,9 | 148,4 | 141,9 | 131,3 | 117,8 | - | - | - | 161,0 | 158,8 | 151,8 | 140,4 | 126,1 | 118,1 | - | - |
| Pe | 26,5 | 28,8 | 33,7 | 40,2 | 49,1 | - | - | - | 27,0 | 29,4 | 34,3 | 40,7 | 49,7 | - | - | - | 27,7 | 30,0 | 34,9 | 41,3 | 50,3 | 55,7 | - | - |
| EER | 5,33 | 4,80 | 3,93 | 3,05 | 2,24 | - | - | - | 5,58 | 5,05 | 4,14 | 3,22 | 2,37 | - | - | - | 5,81 | 5,29 | 4,35 | 3,40 | 2,51 | 2,12 | - | - |
| Qu | 27024 | 26533 | 25397 | 23487 | 21037 | - | - | - | 28713 | 28128 | 26893 | 24868 | 22301 | - | - | - | 30623 | 29796 | 28455 | 26311 | 23622 | 22104 | - | - |
| ΔP | 64 | 62 | 56 | 48 | 39 | - | - | - | 70 | 67 | 61 | 52 | 42 | - | - | - | 79 | 73 | 66 | 57 | 46 | 40 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 171,5 | 169,8 | 162,0 | 149,9 | 134,8 | 126,3 | 117,5 | - | 182,4 | 181,2 | 172,7 | 159,8 | 143,9 | 135,0 | 125,7 | 113,2 | 193,7 | 193,3 | 184,0 | 170,3 | 153,5 | 144,1 | 134,3 | 121,2 |
| Pe | 28,4 | 30,7 | 35,5 | 42,0 | 50,9 | 56,3 | 62,5 | - | 29,2 | 31,5 | 36,3 | 42,7 | 51,6 | 57,0 | 63,2 | 71,6 | 30,1 | 32,3 | 37,1 | 43,5 | 52,4 | 57,8 | 63,9 | 72,4 |
| EER | 6,03 | 5,52 | 4,56 | 3,57 | 2,65 | 2,24 | 1,88 | - | 6,24 | 5,75 | 4,76 | 3,74 | 2,79 | 2,37 | 1,99 | 1,58 | 6,44 | 5,98 | 4,97 | 3,92 | 2,93 | 2,49 | 2,10 | 1,67 |
| Qu | 32611 | 31538 | 30083 | 27816 | 25003 | 23420 | 21767 | - | 34679 | 33357 | 31779 | 29385 | 26442 | 24794 | 23072 | 20771 | 36823 | 35195 | 33492 | 30970 | 27898 | 26185 | 24392 | 22000 |
| ΔP | 89 | 80 | 72 | 62 | 50 | 44 | 38 | - | 100 | 87 | 79 | 68 | 55 | 48 | 42 | 34 | 112 | 94 | 86 | 73 | 59 | 52 | 45 | 37 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 205,3 | 205,6 | 195,5 | 181,0 | 163,4 | 153,5 | 143,2 | 129,5 | 217,4 | 217,6 | 209,1 | 193,6 | 174,9 | 164,5 | 153,6 | 139,1 | 223,5 | 223,8 | 214,9 | 199,0 | 179,9 | **169,9** | 158,1 | 143,3 |
| Pe | 31,0 | 33,2 | 37,9 | 44,3 | 53,2 | 58,6 | 64,7 | 73,2 | 32,0 | 34,1 | 38,7 | 45,2 | 54,1 | 59,6 | 65,6 | 74,1 | 32,5 | 34,6 | 39,2 | 45,6 | 54,5 | **60,0** | 66,0 | 74,5 |
| EER | 6,63 | 6,20 | 5,16 | 4,09 | 3,07 | 2,62 | 2,21 | 1,77 | 6,80 | 6,38 | 5,40 | 4,29 | 3,23 | 2,76 | 2,34 | 1,88 | 6,88 | 6,47 | 5,48 | 4,36 | 3,30 | **2,83** | 2,39 | 1,92 |
| Qu | 39042 | 37169 | 35332 | 32676 | 29464 | 27679 | 25809 | 23321 | 41334 | 39365 | 36174 | 33457 | 30198 | 28394 | 26501 | 23988 | 42507 | 40488 | 37209 | 34417 | 31079 | **29246** | 27297 | 24732 |
| ΔP | 126 | 103 | 93 | 80 | 65 | 57 | 50 | 41 | 140 | 116 | 94 | 80 | 65 | 58 | 50 | 41 | 148 | 122 | 99 | 85 | 69 | **61** | 53 | 44 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 229,8 | 230,0 | 220,9 | 204,5 | 184,9 | 174,1 | 162,7 | - | - | 242,8 | 232,9 | 215,7 | 195,3 | 184,0 | 172,2 | - | - | - | 245,4 | 227,3 | 205,9 | 194,2 | 181,9 | - |
| Pe | 33,1 | 35,1 | 39,7 | 46,1 | 55,0 | 60,4 | 66,4 | - | - | 36,2 | 40,7 | 47,1 | 55,9 | 61,3 | 67,3 | - | - | - | 41,8 | 48,1 | 56,9 | 62,3 | 68,2 | - |
| EER | 6,95 | 6,55 | 5,56 | 4,44 | 3,36 | 2,88 | 2,45 | - | - | 6,71 | 5,72 | 4,58 | 3,49 | 3,00 | 2,56 | - | - | - | 5,87 | 4,73 | 3,62 | 3,12 | 2,67 | - |
| Qu | 43698 | 41629 | 38261 | 35392 | 31975 | 30088 | 28108 | - | - | 43960 | 40414 | 37389 | 33809 | 31839 | 29769 | - | - | - | 42633 | 39447 | 35700 | 33644 | 31486 | - |
| ΔP | 156 | 129 | 105 | 90 | 73 | 65 | 57 | - | - | 144 | 117 | 100 | 82 | 73 | 64 | - | - | - | 130 | 112 | 91 | 81 | 71 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 239,1 | 216,9 | 204,7 | 191,9 | - | - | - | - | 251,3 | 228,1 | 215,4 | 202,1 | - | - | - | - | - | 239,6 | 226,5 | 212,7 | - |
| Pe | - | - | - | 49,2 | 58,0 | 63,3 | 69,2 | - | - | - | - | 50,4 | 59,1 | 64,4 | 70,3 | - | - | - | - | - | 60,3 | 65,6 | 71,4 | - |
| EER | - | - | - | 4,86 | 3,74 | 3,23 | 2,77 | - | - | - | - | 4,99 | 3,86 | 3,34 | 2,88 | - | - | - | - | - | 3,97 | 3,45 | 2,98 | - |
| Qu | - | - | - | 41567 | 37649 | 35505 | 33257 | - | - | - | - | 43747 | 39654 | 37421 | 35083 | - | - | - | - | - | 41716 | 39391 | 36964 | - |
| ΔP | - | - | - | 124 | 102 | 90 | 79 | - | - | - | - | 137 | 113 | 100 | 88 | - | - | - | - | - | 125 | 111 | 98 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
**-** Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve O valve X | double valve Y

TWu -8 °C | TWu 4 °C | TWu 18 °C

## OPERATION IN COOLING MODE - VERSION °

■ = DCPX accessory

### 0752 °

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | 29 | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 157,8 | 154,6 | 147,8 | 136,8 | 122,9 | - | - | - | 168,7 | 165,5 | 158,1 | 146,3 | 131,5 | - | - | - | 179,7 | 176,9 | 168,8 | 156,2 | 140,5 | 131,6 | - | - |
| Pe | 29,5 | 32,3 | 38,0 | 45,7 | 56,3 | - | - | - | 30,2 | 33,0 | 38,7 | 46,4 | 57,0 | - | - | - | 31,0 | 33,8 | 39,5 | 47,1 | 57,8 | 64,3 | - | - |
| EER | 5,35 | 4,79 | 3,89 | 3,00 | 2,18 | - | - | - | 5,58 | 5,01 | 4,08 | 3,16 | 2,31 | - | - | - | 5,79 | 5,23 | 4,28 | 3,32 | 2,43 | 2,05 | - | - |
| Qu | 30302 | 29680 | 28364 | 26246 | 23553 | - | - | - | 32147 | 31417 | 29988 | 27740 | 24916 | - | - | - | 34232 | 33231 | 31678 | 29296 | 26338 | 24661 | - | - |
| ΔP | 80 | 76 | 70 | 60 | 48 | - | - | - | 87 | 83 | 75 | 64 | 52 | - | - | - | 98 | 90 | 82 | 70 | 56 | 49 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 191,1 | 188,8 | 179,9 | 166,5 | 149,9 | 140,6 | 130,8 | - | 202,9 | 201,2 | 191,4 | 177,1 | 159,7 | 149,8 | 139,6 | 125,6 | 215,1 | 214,2 | 203,6 | 188,4 | 170,0 | 159,7 | 148,8 | 134,2 |
| Pe | 31,9 | 34,6 | 40,3 | 48,0 | 58,7 | 65,2 | 72,5 | - | 32,8 | 35,5 | 41,2 | 48,8 | 59,5 | 66,1 | 73,4 | 83,5 | 33,8 | 36,5 | 42,1 | 49,8 | 60,5 | 67,0 | 74,4 | 84,5 |
| EER | 5,99 | 5,45 | 4,47 | 3,47 | 2,56 | 2,16 | 1,81 | - | 6,18 | 5,66 | 4,65 | 3,63 | 2,68 | 2,27 | 1,90 | 1,50 | 6,36 | 5,87 | 4,83 | 3,78 | 2,81 | 2,38 | 2,00 | 1,59 |
| Qu | 36397 | 35121 | 33436 | 30917 | 27818 | 26070 | 24248 | - | 38643 | 37087 | 35263 | 32601 | 29358 | 27537 | 25638 | 23066 | 40965 | 39070 | 37101 | 34298 | 30912 | 29018 | 27038 | 24363 |
| ΔP | 110 | 98 | 89 | 76 | 61 | 54 | 47 | - | 123 | 107 | 96 | 82 | 67 | 59 | 51 | 41 | 138 | 115 | 104 | 89 | 72 | 64 | 55 | 45 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 227,7 | 227,5 | 216,0 | 199,9 | 180,5 | 169,7 | 158,3 | 142,9 | 240,6 | 240,4 | 230,6 | 213,4 | 192,8 | 181,4 | 169,3 | 153,1 | 247,2 | 247,0 | 236,8 | 219,1 | 198,1 | **187,2** | 174,1 | 157,6 |
| Pe | 34,9 | 37,5 | 43,1 | 50,8 | 61,6 | 68,1 | 75,4 | 85,6 | 36,1 | 38,6 | 44,1 | 51,9 | 62,7 | 69,3 | 76,6 | 86,8 | 36,7 | 39,2 | 44,7 | 52,5 | 63,3 | **69,8** | 77,1 | 87,4 |
| EER | 6,52 | 6,07 | 5,01 | 3,93 | 2,93 | 2,49 | 2,10 | 1,67 | 6,67 | 6,23 | 5,23 | 4,11 | 3,07 | 2,62 | 2,21 | 1,76 | 6,73 | 6,30 | 5,30 | 4,18 | 3,13 | **2,68** | 2,26 | 1,80 |
| Qu | 43362 | 41197 | 39074 | 36121 | 32579 | 30608 | 28541 | 25756 | 45832 | 43560 | 39938 | 36918 | 33324 | 31329 | 29235 | 26424 | 47093 | 44767 | 41047 | 37943 | 34261 | **32236** | 30078 | 27207 |
| ΔP | 154 | 126 | 113 | 97 | 79 | 69 | 60 | 49 | 171 | 140 | 113 | 97 | 79 | 70 | 61 | 50 | 180 | 148 | 120 | 102 | 83 | **74** | 64 | 53 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 253,8 | 253,7 | 243,1 | 225,0 | 203,5 | 191,6 | 179,0 | - | - | 267,3 | 256,0 | 236,9 | 214,4 | 202,0 | 188,9 | - | - | - | 269,1 | 249,1 | 225,7 | 212,7 | 199,1 | - |
| Pe | 37,4 | 39,8 | 45,3 | 53,0 | 63,8 | 70,4 | 77,6 | - | - | 41,1 | 46,5 | 54,2 | 65,0 | 71,6 | 78,8 | - | - | - | 47,8 | 55,5 | 66,3 | 72,8 | 80,0 | - |
| EER | 6,79 | 6,37 | 5,37 | 4,24 | 3,19 | 2,72 | 2,31 | - | - | 6,51 | 5,50 | 4,37 | 3,30 | 2,82 | 2,40 | - | - | - | 5,63 | 4,49 | 3,40 | 2,92 | 2,49 | - |
| Qu | 48373 | 45991 | 42172 | 38983 | 35213 | 33128 | 30935 | - | - | 48488 | 44471 | 41109 | 37159 | 34981 | 32688 | - | - | - | 46834 | 43295 | 39161 | 36889 | 34495 | - |
| ΔP | 190 | 156 | 126 | 108 | 88 | 78 | 68 | - | - | 173 | 141 | 120 | 98 | 87 | 76 | - | - | - | 156 | 133 | 109 | 97 | 85 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 261,6 | 237,2 | 223,7 | 209,5 | - | - | - | - | 274,4 | 249,0 | 235,0 | 220,3 | - | - | - | - | - | 261,0 | 246,5 | 231,3 | - |
| Pe | - | - | - | 56,9 | 67,6 | 74,1 | 81,3 | - | - | - | - | 58,4 | 69,0 | 75,5 | 82,7 | - | - | - | - | - | 70,5 | 77,0 | 84,2 | - |
| EER | - | - | - | 4,60 | 3,51 | 3,02 | 2,58 | - | - | - | - | 4,70 | 3,61 | 3,11 | 2,66 | - | - | - | - | - | 3,70 | 3,20 | 2,75 | - |
| Qu | - | - | - | 45540 | 41218 | 38849 | 36356 | - | - | - | - | 47845 | 43330 | 40862 | 38270 | - | - | - | - | - | 45496 | 42927 | 40238 | - |
| ΔP | - | - | - | 147 | 121 | 107 | 94 | - | - | - | - | 163 | 133 | 119 | 104 | - | - | - | - | - | 147 | 131 | 115 | - |

### 0604 °

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | - | - | - |
| Pc | 103,1 | 99,9 | 93,5 | 84,6 | - | - | - | - | 110,1 | 106,9 | 100,1 | 90,8 | 79,8 | - | - | - | 117,2 | 114,3 | 107,1 | 97,3 | 85,8 | - | - | - |
| Pe | 18,6 | 20,7 | 25,1 | 30,6 | - | - | - | - | 19,0 | 21,1 | 25,5 | 31,0 | 38,1 | - | - | - | 19,5 | 21,5 | 25,9 | 31,4 | 38,6 | - | - | - |
| EER | 5,54 | 4,83 | 3,73 | 2,77 | - | - | - | - | 5,79 | 5,07 | 3,93 | 2,93 | 2,10 | - | - | - | 6,02 | 5,31 | 4,14 | 3,09 | 2,22 | - | - | - |
| Qu | 19784 | 19160 | 17914 | 16205 | - | - | - | - | 20955 | 20270 | 18972 | 17195 | 15109 | - | - | - | 22280 | 21425 | 20068 | 18222 | 16056 | - | - | - |
| ΔP | 54 | 50 | 44 | 36 | - | - | - | - | 59 | 54 | 48 | 39 | 30 | - | - | - | 66 | 59 | 52 | 43 | 33 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | - | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 124,5 | 121,9 | 114,3 | 104,0 | 91,9 | 85,3 | - | - | 132,0 | 129,8 | 121,7 | 110,9 | 98,3 | 91,3 | 84,0 | 80,9 | 139,8 | 138,2 | 129,6 | 118,3 | 105,0 | 97,7 | 90,0 | 86,7 |
| Pe | 20,0 | 22,0 | 26,3 | 31,9 | 39,1 | 43,4 | - | - | 20,5 | 22,5 | 26,8 | 32,4 | 39,6 | 44,0 | 48,9 | 51,1 | 21,1 | 23,0 | 27,3 | 32,9 | 40,2 | 44,6 | 49,6 | 51,8 |
| EER | 6,24 | 5,54 | 4,34 | 3,26 | 2,35 | 1,96 | - | - | 6,45 | 5,77 | 4,55 | 3,43 | 2,48 | 2,08 | 1,72 | 1,58 | 6,64 | 6,00 | 4,75 | 3,60 | 2,61 | 2,19 | 1,82 | 1,68 |
| Qu | 23654 | 22628 | 21206 | 19287 | 17037 | 15797 | - | - | 25077 | 23878 | 22384 | 20388 | 18053 | 16766 | 15414 | 14841 | 26547 | 25136 | 23568 | 21497 | 19076 | 17742 | 16336 | 15738 |
| ΔP | 74 | 64 | 56 | 47 | 36 | 31 | - | - | 82 | 70 | 61 | 51 | 40 | 34 | 29 | 27 | 92 | 76 | 66 | 55 | 43 | 38 | 32 | 30 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 147,8 | 146,6 | 137,6 | 125,7 | 111,9 | 104,2 | 96,2 | 92,7 | 156,0 | 154,9 | 147,0 | 134,4 | 119,8 | 111,8 | 103,3 | 99,6 | 160,2 | 159,1 | 151,0 | 138,2 | 123,3 | **115,4** | 106,4 | 102,7 |
| Pe | 21,7 | 23,6 | 27,8 | 33,4 | 40,8 | 45,2 | 50,2 | 52,4 | 22,4 | 24,3 | 28,4 | 34,0 | 41,4 | 45,9 | 51,0 | 53,2 | 22,8 | 24,6 | 28,7 | 34,3 | 41,7 | **46,2** | 51,3 | 53,6 |
| EER | 6,81 | 6,20 | 4,95 | 3,76 | 2,74 | 2,31 | 1,91 | 1,77 | 6,97 | 6,38 | 5,18 | 3,95 | 2,89 | 2,43 | 2,03 | 1,87 | 7,04 | 6,46 | 5,27 | 4,03 | 2,95 | **2,50** | 2,07 | 1,92 |
| Qu | 28063 | 26483 | 24835 | 22681 | 20167 | 18782 | 17319 | 16695 | 29623 | 27982 | 25395 | 23219 | 20684 | 19288 | 17810 | 17178 | 30420 | 28748 | 26105 | 23881 | 21292 | **19875** | 18357 | 17711 |
| ΔP | 102 | 82 | 72 | 60 | 48 | 41 | 35 | 33 | 113 | 92 | 73 | 61 | 48 | 42 | 36 | 33 | 119 | 97 | 77 | 64 | 51 | **44** | 38 | 35 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 164,5 | 163,4 | 155,0 | 142,0 | 126,8 | 118,4 | 109,5 | - | - | 172,1 | 163,3 | 149,8 | 133,9 | 125,2 | 116,0 | - | - | - | 171,8 | 157,7 | 141,3 | 132,2 | 122,6 | - |
| Pe | 23,2 | 25,0 | 29,0 | 34,6 | 42,0 | 46,6 | 51,6 | - | - | 25,7 | 29,6 | 35,2 | 42,7 | 47,2 | 52,3 | - | - | - | 30,4 | 35,9 | 43,4 | 47,9 | 53,0 | - |
| EER | 7,10 | 6,54 | 5,35 | 4,10 | 3,02 | 2,54 | 2,12 | - | - | 6,68 | 5,51 | 4,25 | 3,14 | 2,65 | 2,22 | - | - | - | 5,65 | 4,39 | 3,26 | 2,76 | 2,31 | - |
| Qu | 31228 | 29523 | 26825 | 24552 | 21908 | 20454 | 18912 | - | - | 31104 | 28294 | 25922 | 23167 | 21653 | 20046 | - | - | - | 29803 | 27329 | 24460 | 22884 | 21213 | - |
| ΔP | 125 | 102 | 81 | 68 | 54 | 47 | 40 | - | - | 113 | 90 | 76 | 60 | 53 | 45 | - | - | - | 100 | 84 | 67 | 59 | 51 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - | - |
| Pc | - | - | 180,5 | 165,8 | 148,8 | 139,4 | - | - | - | - | - | 174,1 | 156,4 | 146,7 | - | - | - | - | - | 182,6 | 164,2 | 154,2 | - | - |
| Pe | - | - | 31,2 | 36,7 | 44,1 | 48,6 | - | - | - | - | - | 37,5 | 44,8 | 49,4 | - | - | - | - | - | 38,3 | 45,7 | 50,3 | - | - |
| EER | - | - | 5,79 | 4,52 | 3,38 | 2,87 | - | - | - | - | - | 4,65 | 3,49 | 2,97 | - | - | - | - | - | 4,76 | 3,59 | 3,07 | - | - |
| Qu | - | - | 31352 | 28773 | 25787 | 24148 | - | - | - | - | - | 30253 | 27147 | 25444 | - | - | - | - | - | 31769 | 28541 | 26772 | - | - |
| ΔP | - | - | 111 | 93 | 75 | 66 | - | - | - | - | - | 103 | 83 | 73 | - | - | - | - | - | 114 | 92 | 81 | - | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve O valve X | double valve Y

TWu -8 °C | TWu 4 °C | TWu 18 °C

## OPERATION IN COOLING MODE - VERSION °

= DCPX accessory

### 0654 °

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | -8 | | | | | | | | -6 | | | | | | | | | -4 | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 114,7 | 111,0 | 104,2 | 94,4 | - | - | - | - | 123,7 | 119,9 | 112,5 | 102,0 | 89,4 | - | - | - | 132,8 | 129,3 | 121,2 | 109,9 | 96,6 | 89,2 | - | - |
| Pe | 21,8 | 23,5 | 28,0 | 34,0 | - | - | - | - | 22,3 | 24,0 | 28,4 | 34,5 | 42,1 | - | - | - | 22,8 | 24,6 | 28,9 | 34,9 | 42,7 | 47,3 | - | - |
| EER | 5,26 | 4,71 | 3,72 | 2,78 | - | - | - | - | 5,55 | 4,99 | 3,96 | 2,96 | 2,12 | - | - | - | 5,82 | 5,27 | 4,20 | 3,15 | 2,26 | 1,88 | - | - |
| Qu | 21987 | 21268 | 19960 | 18069 | - | - | - | - | 23522 | 22722 | 21307 | 19299 | 16911 | - | - | - | 25246 | 24241 | 22712 | 20583 | 18075 | 16694 | - | - |
| ΔP | 49 | 46 | 41 | 33 | - | - | - | - | 55 | 51 | 45 | 37 | 28 | - | - | - | 63 | 56 | 50 | 41 | 31 | 27 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | -2 | | | | | | | | 0 | | | | | | | | | 2 | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 142,4 | 139,1 | 130,3 | 118,2 | 104,1 | 96,4 | 88,4 | - | 152,2 | 149,4 | 139,8 | 126,9 | 112,0 | 103,8 | 95,4 | 88,1 | 162,5 | 160,2 | 149,8 | 136,1 | 120,3 | 111,6 | 102,8 | 95,0 |
| Pe | 23,4 | 25,1 | 29,4 | 35,4 | 43,3 | 48,0 | 53,4 | - | 24,1 | 25,8 | 29,9 | 36,0 | 43,9 | 48,7 | 54,1 | 58,9 | 24,9 | 26,5 | 30,5 | 36,5 | 44,5 | 49,4 | 54,9 | 59,7 |
| EER | 6,08 | 5,54 | 4,44 | 3,34 | 2,40 | 2,01 | 1,66 | - | 6,31 | 5,80 | 4,67 | 3,53 | 2,55 | 2,13 | 1,76 | 1,50 | 6,52 | 6,05 | 4,92 | 3,73 | 2,70 | 2,26 | 1,87 | 1,59 |
| Qu | 27042 | 25825 | 24174 | 21921 | 19289 | 17845 | 16366 | - | 28910 | 27474 | 25695 | 23314 | 20552 | 19045 | 17498 | 16150 | 30848 | 29146 | 27234 | 24724 | 21834 | 20262 | 18645 | 17233 |
| ΔP | 72 | 62 | 55 | 45 | 35 | 30 | 25 | - | 82 | 69 | 60 | 50 | 39 | 33 | 28 | 24 | 92 | 76 | 66 | 54 | 42 | 37 | 31 | 26 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 4 | | | | | | | | 6 | | | | | | | | | 7 | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | - | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 173,0 | 171,3 | 160,0 | 145,5 | 128,8 | 119,7 | 110,3 | 102,2 | 184,0 | 182,2 | 171,9 | 156,4 | 138,6 | 129,0 | 119,1 | 110,4 | - | 187,7 | 177,1 | 161,2 | 143,0 | **133,4** | 123,0 | 114,1 |
| Pe | 25,8 | 27,3 | 31,1 | 37,1 | 45,2 | 50,1 | 55,6 | 60,5 | 26,7 | 28,1 | 31,8 | 37,8 | 45,9 | 50,9 | 56,5 | 61,5 | - | 28,6 | 32,2 | 38,1 | 46,3 | **51,2** | 56,9 | 61,9 |
| EER | 6,72 | 6,28 | 5,14 | 3,92 | 2,85 | 2,39 | 1,98 | 1,69 | 6,89 | 6,48 | 5,40 | 4,14 | 3,02 | 2,54 | 2,11 | 1,80 | - | 6,57 | 5,50 | 4,23 | 3,09 | **2,60** | 2,16 | 1,84 |
| Qu | 32855 | 30933 | 28879 | 26231 | 23204 | 21562 | 19868 | 18391 | 34928 | 32908 | 29707 | 26997 | 23918 | 22254 | 20531 | 19033 | - | 33918 | 30624 | 27838 | 24681 | **22987** | 21211 | 19678 |
| ΔP | 104 | 84 | 73 | 60 | 47 | 41 | 35 | 30 | 117 | 95 | 74 | 61 | 48 | 42 | 35 | 30 | - | 100 | 79 | 65 | 51 | **44** | 38 | 32 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 8 | | | | | | | | 10 | | | | | | | | | 12 | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 193,3 | 182,4 | 166,0 | 147,4 | 137,3 | 126,9 | - | - | - | 193,1 | 175,9 | 156,4 | 145,9 | 135,0 | - | - | - | 204,2 | 186,0 | 165,7 | 154,7 | 143,3 | - |
| Pe | - | 29,1 | 32,6 | 38,5 | 46,6 | 51,6 | 57,2 | - | - | - | 33,4 | 39,2 | 47,3 | 52,4 | 58,0 | - | - | - | 34,4 | 40,1 | 48,1 | 53,1 | 58,8 | - |
| EER | - | 6,65 | 5,60 | 4,32 | 3,16 | 2,66 | 2,22 | - | - | - | 5,78 | 4,48 | 3,30 | 2,79 | 2,33 | - | - | - | 5,94 | 4,64 | 3,44 | 2,91 | 2,44 | - |
| Qu | - | 34945 | 31556 | 28692 | 25456 | 23713 | 21903 | - | - | - | 33462 | 30441 | 27044 | 25219 | 23320 | - | - | - | 35425 | 32241 | 28679 | 26770 | 24784 | - |
| ΔP | - | 106 | 84 | 69 | 54 | 47 | 40 | - | - | - | 94 | 78 | 61 | 53 | 46 | - | - | - | 105 | 87 | 69 | 60 | 52 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 14 | | | | | | | | 16 | | | | | | | | | 18 | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 196,4 | 175,2 | 163,8 | 151,9 | - | - | - | - | - | 184,9 | 173,0 | 160,7 | - | - | - | - | - | 194,9 | 182,5 | 169,7 | - |
| Pe | - | - | - | 41,0 | 49,0 | 54,0 | 59,7 | - | - | - | - | - | 49,9 | 54,9 | 60,6 | - | - | - | - | - | 50,9 | 55,9 | 61,6 | - |
| EER | - | - | - | 4,79 | 3,58 | 3,03 | 2,54 | - | - | - | - | - | 3,70 | 3,15 | 2,65 | - | - | - | - | - | 3,83 | 3,26 | 2,75 | - |
| Qu | - | - | - | 34093 | 30362 | 28368 | 26293 | - | - | - | - | - | 32092 | 30010 | 27849 | - | - | - | - | - | 33868 | 31696 | 29451 | - |
| ΔP | - | - | - | 97 | 77 | 68 | 58 | - | - | - | - | - | 86 | 76 | 65 | - | - | - | - | - | 96 | 84 | 73 | - |

### 0704 °

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | -8 | | | | | | | | -6 | | | | | | | | | -4 | | | |
| Glycol | 29 | 29 | 29 | 29 | 29 | - | - | - | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 134,2 | 130,7 | 123,6 | 112,7 | 98,9 | - | - | - | 144,4 | 141,0 | 133,1 | 121,6 | 107,2 | 98,9 | - | - | 154,8 | 151,7 | 143,1 | 130,8 | 115,8 | 107,2 | 97,8 | - |
| Pe | 25,2 | 28,0 | 33,1 | 39,5 | 48,1 | - | - | - | 25,6 | 28,4 | 33,5 | 39,9 | 48,6 | 53,8 | - | - | 26,0 | 28,8 | 33,9 | 40,4 | 49,1 | 54,3 | 60,0 | - |
| EER | 5,32 | 4,67 | 3,73 | 2,85 | 2,06 | - | - | - | 5,65 | 4,97 | 3,98 | 3,05 | 2,21 | 1,84 | - | - | 5,96 | 5,27 | 4,23 | 3,24 | 2,36 | 1,97 | 1,63 | - |
| Qu | 25753 | 25073 | 23702 | 21604 | 18946 | - | - | - | 27500 | 26737 | 25241 | 23041 | 20295 | 18728 | - | - | 29461 | 28470 | 26847 | 24531 | 21688 | 20077 | 18312 | - |
| ΔP | 69 | 66 | 59 | 49 | 38 | - | - | - | 77 | 72 | 64 | 54 | 42 | 36 | - | - | 88 | 80 | 71 | 59 | 46 | 40 | 33 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | -2 | | | | | | | | 0 | | | | | | | | | 2 | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 165,5 | 162,9 | 153,5 | 140,5 | 124,7 | 115,8 | 106,1 | - | 176,7 | 174,5 | 164,4 | 150,5 | 133,9 | 124,6 | 114,5 | 96,9 | 188,4 | 186,9 | 176,0 | 161,2 | 143,7 | 134,0 | 123,4 | 105,1 |
| Pe | 26,4 | 29,2 | 34,3 | 40,9 | 49,7 | 54,9 | 60,6 | - | 26,9 | 29,7 | 34,8 | 41,4 | 50,2 | 55,5 | 61,2 | 72,3 | 27,5 | 30,2 | 35,4 | 42,0 | 50,9 | 56,1 | 61,9 | 73,0 |
| EER | 6,27 | 5,58 | 4,47 | 3,44 | 2,51 | 2,11 | 1,75 | - | 6,57 | 5,88 | 4,72 | 3,64 | 2,67 | 2,25 | 1,87 | 1,34 | 6,86 | 6,19 | 4,97 | 3,84 | 2,82 | 2,39 | 2,00 | 1,44 |
| Qu | 31507 | 30274 | 28522 | 26079 | 23126 | 21465 | 19652 | - | 33640 | 32158 | 30270 | 27690 | 24614 | 22898 | 21031 | 17779 | 35865 | 34074 | 32046 | 29322 | 26115 | 24339 | 22419 | 19073 |
| ΔP | 100 | 88 | 78 | 65 | 51 | 44 | 37 | - | 113 | 97 | 86 | 72 | 57 | 49 | 41 | 30 | 128 | 106 | 94 | 78 | 62 | 54 | 46 | 33 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 4 | | | | | | | | 6 | | | | | | | | | 7 | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 200,6 | 199,7 | 187,8 | 172,0 | 153,6 | 143,5 | 132,5 | 113,5 | 213,2 | 212,2 | 201,7 | 184,7 | 165,2 | 154,5 | 143,0 | 123,0 | 219,7 | 218,7 | 207,8 | 190,3 | 170,3 | **159,9** | 147,6 | 127,3 |
| Pe | 28,1 | 30,8 | 36,0 | 42,6 | 51,5 | 56,8 | 62,6 | 73,8 | 28,8 | 31,4 | 36,6 | 43,3 | 52,3 | 57,6 | 63,4 | 74,7 | 29,1 | 31,7 | 36,9 | 43,6 | 52,6 | **58,0** | 63,8 | 75,0 |
| EER | 7,14 | 6,49 | 5,22 | 4,04 | 2,98 | 2,52 | 2,12 | 1,54 | 7,41 | 6,76 | 5,51 | 4,27 | 3,16 | 2,68 | 2,25 | 1,65 | 7,54 | 6,89 | 5,63 | 4,36 | 3,24 | **2,76** | 2,31 | 1,70 |
| Qu | 38182 | 36136 | 33958 | 31072 | 27717 | 25873 | 23889 | 20438 | 40597 | 38434 | 34921 | 31948 | 28534 | 26671 | 24678 | 21216 | 41843 | 39618 | 36000 | 32932 | 29428 | **27533** | 25490 | 21963 |
| ΔP | 144 | 117 | 103 | 86 | 69 | 60 | 51 | 37 | 162 | 132 | 105 | 88 | 70 | 61 | 52 | 39 | 172 | 140 | 111 | 93 | 74 | **65** | 56 | 41 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 8 | | | | | | | | 10 | | | | | | | | | 12 | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 225,3 | 214,0 | 195,9 | 175,4 | 164,2 | 152,3 | - | - | - | 226,6 | 207,5 | 185,9 | 174,2 | 161,9 | - | - | - | 239,7 | 219,4 | 196,8 | 184,5 | 171,7 | - |
| Pe | - | 32,1 | 37,3 | 44,0 | 53,0 | 58,3 | 64,1 | - | - | - | 38,1 | 44,8 | 53,7 | 59,1 | 64,9 | - | - | - | 38,9 | 45,6 | 54,5 | 59,9 | 65,7 | - |
| EER | - | 7,02 | 5,74 | 4,45 | 3,31 | 2,82 | 2,37 | - | - | - | 5,96 | 4,64 | 3,46 | 2,95 | 2,50 | - | - | - | 6,17 | 4,82 | 3,61 | 3,08 | 2,61 | - |
| Qu | - | 40825 | 37099 | 33933 | 30337 | 28386 | 26314 | - | - | - | 39362 | 35991 | 32201 | 30157 | 28001 | - | - | - | 41710 | 38123 | 34128 | 31986 | 29740 | - |
| ΔP | - | 149 | 118 | 99 | 79 | 69 | 59 | - | - | - | 133 | 111 | 89 | 78 | 67 | - | - | - | 149 | 125 | 100 | 88 | 76 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 14 | | | | | | | | 16 | | | | | | | | | 18 | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 231,8 | 207,9 | 195,2 | 181,8 | - | - | - | - | - | 219,4 | 206,1 | 192,2 | - | - | - | - | - | 231,3 | 217,3 | 202,9 | - |
| Pe | - | - | - | 46,5 | 55,4 | 60,7 | 66,6 | - | - | - | - | - | 56,3 | 61,6 | 67,5 | - | - | - | - | - | 57,3 | 62,6 | 68,5 | - |
| EER | - | - | - | 4,99 | 3,75 | 3,21 | 2,73 | - | - | - | - | - | 3,90 | 3,34 | 2,85 | - | - | - | - | - | 4,04 | 3,47 | 2,96 | - |
| Qu | - | - | - | 40332 | 36120 | 33873 | 31534 | - | - | - | - | - | 38178 | 35822 | 33382 | - | - | - | - | - | 40305 | 37833 | 35288 | - |
| ΔP | - | - | - | 140 | 112 | 99 | 85 | - | - | - | - | - | 125 | 110 | 96 | - | - | - | - | - | 140 | 123 | 107 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve O | valve X | double valve Y

**OPERATION IN COOLING MODE - VERSION °**

■ = DCPX accessory

*TWu* -8 °C | *TWu* 4 °C | *TWu* 18 °C

**0754 °**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | 29 | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 150,4 | 146,7 | 139,0 | 126,8 | 111,8 | - | - | - | 161,8 | 158,2 | 149,8 | 136,8 | 121,0 | - | - | - | 173,4 | 170,3 | 161,1 | 147,3 | 130,7 | 121,4 | - | - |
| Pe | 27,2 | 30,5 | 36,6 | 43,8 | 53,3 | - | - | - | 27,8 | 31,1 | 37,2 | 44,5 | 54,0 | - | - | - | 28,4 | 31,7 | 37,8 | 45,2 | 54,8 | 60,4 | - | - |
| EER | 5,52 | 4,81 | 3,79 | 2,89 | 2,10 | - | - | - | 5,82 | 5,09 | 4,02 | 3,08 | 2,24 | - | - | - | 6,10 | 5,37 | 4,26 | 3,26 | 2,39 | 2,01 | - | - |
| Qu | 28839 | 28134 | 26638 | 24296 | 21410 | - | - | - | 30784 | 29989 | 28379 | 25915 | 22908 | - | - | - | 32981 | 31932 | 30198 | 27602 | 24465 | 22723 | - | - |
| ΔP | 62 | 59 | 53 | 44 | 34 | - | - | - | 69 | 65 | 58 | 48 | 38 | - | - | - | 78 | 71 | 64 | 53 | 42 | 36 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 185,5 | 182,9 | 172,9 | 158,3 | 140,7 | 131,0 | 120,9 | - | 198,2 | 196,0 | 185,2 | 169,7 | 151,2 | 140,9 | 130,4 | 116,2 | 211,3 | 210,0 | 198,3 | 181,8 | 162,2 | 151,4 | 140,3 | 125,3 |
| Pe | 29,1 | 32,4 | 38,5 | 45,9 | 55,6 | 61,3 | 67,7 | - | 29,9 | 33,1 | 39,2 | 46,7 | 56,4 | 62,2 | 68,6 | 77,3 | 30,7 | 33,9 | 40,0 | 47,5 | 57,4 | 63,1 | 69,6 | 78,4 |
| EER | 6,37 | 5,64 | 4,49 | 3,45 | 2,53 | 2,14 | 1,79 | - | 6,63 | 5,92 | 4,72 | 3,64 | 2,68 | 2,27 | 1,90 | 1,50 | 6,88 | 6,19 | 4,95 | 3,82 | 2,83 | 2,40 | 2,02 | 1,60 |
| Qu | 35279 | 33964 | 32097 | 29361 | 26083 | 24270 | 22392 | - | 37677 | 36088 | 34079 | 31193 | 27765 | 25877 | 23927 | 21310 | 40178 | 38248 | 36089 | 33049 | 29466 | 27501 | 25475 | 22740 |
| ΔP | 89 | 79 | 70 | 59 | 46 | 40 | 34 | - | 101 | 87 | 77 | 65 | 51 | 45 | 38 | 30 | 114 | 95 | 85 | 71 | 56 | 49 | 42 | 34 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | - | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 225,0 | 224,4 | 211,7 | 194,1 | 173,5 | 162,2 | 150,5 | 134,8 | 239,2 | 238,5 | 227,4 | 208,6 | 186,6 | 174,6 | 162,3 | 145,6 | - | 245,8 | 234,2 | 214,9 | 192,4 | **180,8** | 167,5 | 150,4 |
| Pe | 31,6 | 34,8 | 40,9 | 48,4 | 58,3 | 64,1 | 70,6 | 79,4 | 32,6 | 35,7 | 41,8 | 49,4 | 59,4 | 65,3 | 71,7 | 80,7 | - | 36,1 | 42,2 | 49,9 | 59,9 | **65,7** | 72,2 | 81,2 |
| EER | 7,12 | 6,46 | 5,18 | 4,01 | 2,98 | 2,53 | 2,13 | 1,70 | 7,34 | 6,69 | 5,45 | 4,22 | 3,14 | 2,68 | 2,26 | 1,80 | - | 6,80 | 5,55 | 4,31 | 3,21 | **2,75** | 2,32 | 1,85 |
| Qu | 42780 | 40570 | 38248 | 35038 | 31285 | 29233 | 27122 | 24265 | 45484 | 43149 | 39331 | 36040 | 32219 | 30138 | 27998 | 25104 | - | 44474 | 40543 | 37155 | 33234 | **31116** | 28910 | 25950 |
| ΔP | 129 | 105 | 93 | 78 | 62 | 55 | 47 | 38 | 145 | 119 | 95 | 79 | 64 | 56 | 48 | 39 | - | 126 | 101 | 84 | 68 | **59** | 51 | 41 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | 253,2 | 241,2 | 221,2 | 198,2 | 185,7 | 172,8 | - | - | - | 255,4 | 234,3 | 210,2 | 197,1 | 183,6 | - | - | - | - | 247,8 | 222,5 | 208,7 | 194,6 | - |
| Pe | - | 36,7 | 42,7 | 50,4 | 60,4 | 66,3 | 72,7 | - | - | - | 43,7 | 51,4 | 61,4 | 67,3 | 73,8 | - | - | - | - | 52,5 | 62,6 | 68,5 | 74,9 | - |
| EER | - | 6,91 | 5,65 | 4,39 | 3,28 | 2,80 | 2,38 | - | - | - | 5,84 | 4,56 | 3,42 | 2,93 | 2,49 | - | - | - | - | 4,72 | 3,56 | 3,05 | 2,60 | - |
| Qu | - | 45822 | 41776 | 38288 | 34265 | 32082 | 29836 | - | - | - | 44307 | 40612 | 36378 | 34087 | 31730 | - | - | - | - | 43012 | 38558 | 36156 | 33680 | - |
| ΔP | - | 133 | 107 | 90 | 72 | 63 | 54 | - | - | - | 120 | 101 | 81 | 71 | 62 | - | - | - | - | 113 | 91 | 80 | 69 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 261,7 | 235,1 | 220,8 | 205,9 | - | - | - | - | - | 248,1 | 233,1 | 217,5 | - | - | - | - | - | 261,4 | 245,7 | 229,4 | - |
| Pe | - | - | - | 53,7 | 63,8 | 69,7 | 76,1 | - | - | - | - | - | 65,0 | 70,9 | 77,4 | - | - | - | - | - | 66,3 | 72,2 | 78,7 | - |
| EER | - | - | - | 4,87 | 3,69 | 3,17 | 2,71 | - | - | - | - | - | 3,82 | 3,29 | 2,81 | - | - | - | - | - | 3,94 | 3,40 | 2,91 | - |
| Qu | - | - | - | 45489 | 40806 | 38287 | 35687 | - | - | - | - | - | 43121 | 40481 | 37750 | - | - | - | - | - | 45504 | 42739 | 39870 | - |
| ΔP | - | - | - | 127 | 102 | 90 | 78 | - | - | - | - | - | 114 | 100 | 87 | - | - | - | - | - | 127 | 112 | 97 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## YIELDS AND ABSORPTION DIFFERENT THAN NOMINAL

valve Z | valve O valve X | double valve Y

TWu -8 °C | TWu 4 °C | TWu 18 °C

### OPERATION IN COOLING MODE - VERSION L

■ = DCPX accessory

**0282 L**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | - | - | - |
| Pc | 47,5 | 46,0 | 42,7 | 38,4 | - | - | - | - | 50,6 | 49,1 | 45,7 | 41,2 | 36,1 | - | - | - | 53,8 | 52,4 | 48,9 | 44,2 | 38,8 | - | - | - |
| Pe | 6,8 | 7,9 | 9,9 | 12,2 | - | - | - | - | 7,0 | 8,1 | 10,1 | 12,4 | 15,6 | - | - | - | 7,2 | 8,3 | 10,3 | 12,7 | 15,9 | - | - | - |
| EER | 7,01 | 5,83 | 4,31 | 3,14 | - | - | - | - | 7,25 | 6,07 | 4,53 | 3,31 | 2,31 | - | - | - | 7,45 | 6,30 | 4,74 | 3,48 | 2,44 | - | - | - |
| Qu | 9123 | 8816 | 8189 | 7361 | - | - | - | - | 9641 | 9309 | 8666 | 7813 | 6829 | - | - | - | 10228 | 9822 | 9161 | 8280 | 7263 | - | - | - |
| ΔP | 41 | 39 | 33 | 27 | - | - | - | - | 45 | 42 | 36 | 29 | 22 | - | - | - | 50 | 45 | 39 | 32 | 25 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | - | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 57,0 | 55,8 | 52,1 | 47,2 | 41,6 | 38,5 | - | - | 60,4 | 59,3 | 55,5 | 50,4 | 44,5 | 41,2 | 37,8 | 36,3 | 63,8 | 63,0 | 59,0 | 53,7 | 47,5 | 44,1 | 40,5 | 38,9 |
| Pe | 7,5 | 8,6 | 10,6 | 12,9 | 16,1 | 18,1 | - | - | 7,7 | 8,8 | 10,8 | 13,2 | 16,4 | 18,4 | 20,5 | 21,5 | 8,0 | 9,1 | 11,1 | 13,5 | 16,8 | 18,7 | 20,9 | 21,8 |
| EER | 7,63 | 6,52 | 4,94 | 3,65 | 2,58 | 2,13 | - | - | 7,80 | 6,72 | 5,13 | 3,81 | 2,71 | 2,25 | 1,84 | 1,69 | 7,96 | 6,93 | 5,32 | 3,97 | 2,84 | 2,36 | 1,94 | 1,79 |
| Qu | 10839 | 10357 | 9673 | 8765 | 7710 | 7128 | - | - | 11471 | 10913 | 10203 | 9265 | 8173 | 7568 | 6933 | 6663 | 12124 | 11472 | 10737 | 9767 | 8637 | 8011 | 7348 | 7066 |
| ΔP | 56 | 49 | 43 | 35 | 27 | 23 | - | - | 62 | 53 | 46 | 38 | 30 | 25 | 21 | 20 | 69 | 57 | 50 | 41 | 32 | 28 | 23 | 22 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 67,4 | 66,8 | 62,6 | 57,1 | 50,6 | 47,1 | 43,2 | 41,6 | 71,1 | 70,5 | 66,8 | 61,0 | 54,2 | 50,5 | 46,4 | 44,7 | 73,0 | 72,4 | 68,6 | 62,7 | 55,8 | **52,1** | 47,8 | 46,0 |
| Pe | 8,3 | 9,4 | 11,4 | 13,8 | 17,1 | 19,0 | 21,2 | 22,2 | 8,7 | 9,7 | 11,7 | 14,2 | 17,5 | 19,4 | 21,6 | 22,6 | 8,8 | 9,9 | 11,9 | 14,4 | 17,6 | **19,5** | 21,8 | 22,7 |
| EER | 8,09 | 7,11 | 5,49 | 4,13 | 2,96 | 2,47 | 2,04 | 1,88 | 8,21 | 7,25 | 5,70 | 4,30 | 3,10 | 2,60 | 2,15 | 1,98 | 8,26 | 7,32 | 5,77 | 4,37 | 3,16 | **2,67** | 2,20 | 2,03 |
| Qu | 12797 | 12072 | 11306 | 10303 | 9132 | 8482 | 7789 | 7493 | 13492 | 12740 | 11553 | 10544 | 9364 | 8709 | 8007 | 7707 | 13845 | 13080 | 11871 | 10843 | 9638 | **8974** | 8251 | 7944 |
| ΔP | 77 | 62 | 54 | 45 | 35 | 31 | 26 | 24 | 85 | 69 | 54 | 45 | 36 | 31 | 26 | 24 | 89 | 73 | 57 | 48 | 38 | **33** | 28 | 26 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 74,9 | 74,3 | 70,5 | 64,4 | 57,4 | 53,5 | 49,2 | - | - | 78,2 | 74,2 | 67,9 | 60,6 | 56,5 | 52,1 | - | - | - | 78,0 | 71,5 | 63,9 | 59,6 | 55,0 | - |
| Pe | 9,0 | 10,1 | 12,1 | 14,5 | 17,8 | 19,8 | 21,9 | - | - | 10,4 | 12,4 | 14,9 | 18,2 | 20,2 | 22,3 | - | - | - | 12,8 | 15,3 | 18,6 | 20,6 | 22,7 | - |
| EER | 8,30 | 7,38 | 5,84 | 4,43 | 3,22 | 2,70 | 2,24 | - | - | 7,49 | 5,97 | 4,56 | 3,33 | 2,80 | 2,33 | - | - | - | 6,08 | 4,67 | 3,43 | 2,90 | 2,42 | - |
| Qu | 14205 | 13425 | 12194 | 11144 | 9916 | 9233 | 8499 | - | - | 14128 | 12851 | 11760 | 10481 | 9770 | 9003 | - | - | - | 13524 | 12390 | 11059 | 10319 | 9520 | - |
| ΔP | 94 | 76 | 61 | 51 | 40 | 35 | 29 | - | - | 84 | 67 | 56 | 45 | 39 | 33 | - | - | - | 75 | 63 | 50 | 43 | 37 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - | - |
| Pc | - | - | 81,8 | 75,1 | 67,2 | 62,8 | - | - | - | - | - | 78,8 | 70,6 | 66,0 | - | - | - | - | - | - | 74,1 | 69,3 | - | - |
| Pe | - | - | 13,2 | 15,7 | 19,0 | 21,0 | - | - | - | - | - | 16,2 | 19,5 | 21,5 | - | - | - | - | - | - | 20,0 | 21,9 | - | - |
| EER | - | - | 6,19 | 4,78 | 3,53 | 2,99 | - | - | - | - | - | 4,88 | 3,62 | 3,08 | - | - | - | - | - | - | 3,71 | 3,16 | - | - |
| Qu | - | - | 14213 | 13034 | 11650 | 10881 | - | - | - | - | - | 13693 | 12254 | 11454 | - | - | - | - | - | - | 12870 | 12039 | - | - |
| ΔP | - | - | 82 | 69 | 55 | 48 | - | - | - | - | - | 76 | 61 | 53 | - | - | - | - | - | - | 68 | 59 | - | - |

**0302 L**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 52,4 | 50,8 | 47,6 | 43,2 | - | - | - | - | 56,0 | 54,4 | 51,1 | 46,4 | 40,9 | - | - | - | 59,6 | 58,2 | 54,6 | 49,7 | 43,9 | 40,7 | - | - |
| Pe | 8,5 | 9,5 | 11,6 | 14,3 | - | - | - | - | 8,7 | 9,7 | 11,8 | 14,5 | 18,0 | - | - | - | 8,9 | 9,9 | 12,1 | 14,8 | 18,3 | 20,4 | - | - |
| EER | 6,20 | 5,37 | 4,09 | 3,01 | - | - | - | - | 6,45 | 5,62 | 4,31 | 3,19 | 2,27 | - | - | - | 6,68 | 5,87 | 4,53 | 3,36 | 2,40 | 2,00 | - | - |
| Qu | 10067 | 9759 | 9142 | 8283 | - | - | - | - | 10671 | 10331 | 9686 | 8792 | 7737 | - | - | - | 11353 | 10927 | 10251 | 9319 | 8223 | 7618 | - | - |
| ΔP | 50 | 47 | 42 | 34 | - | - | - | - | 55 | 51 | 45 | 37 | 29 | - | - | - | 62 | 56 | 49 | 41 | 32 | 27 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 63,4 | 62,1 | 58,3 | 53,1 | 47,0 | 43,7 | 40,2 | - | 67,3 | 66,2 | 62,2 | 56,7 | 50,3 | 46,8 | 43,1 | 39,9 | 71,3 | 70,5 | 66,2 | 60,5 | 53,8 | 50,1 | 46,2 | 42,8 |
| Pe | 9,2 | 10,2 | 12,3 | 15,0 | 18,5 | 20,6 | 23,1 | - | 9,5 | 10,4 | 12,5 | 15,3 | 18,8 | 20,9 | 23,4 | 25,5 | 9,8 | 10,7 | 12,8 | 15,5 | 19,1 | 21,3 | 23,7 | 25,9 |
| EER | 6,90 | 6,11 | 4,75 | 3,54 | 2,54 | 2,12 | 1,74 | - | 7,11 | 6,34 | 4,96 | 3,72 | 2,68 | 2,23 | 1,84 | 1,56 | 7,29 | 6,57 | 5,18 | 3,89 | 2,82 | 2,36 | 1,95 | 1,65 |
| Qu | 12062 | 11548 | 10835 | 9866 | 8727 | 8098 | 7445 | - | 12796 | 12193 | 11443 | 10433 | 9249 | 8596 | 7916 | 7325 | 13554 | 12843 | 12054 | 11003 | 9774 | 9098 | 8390 | 7773 |
| ΔP | 69 | 61 | 53 | 44 | 35 | 30 | 25 | - | 78 | 66 | 58 | 48 | 38 | 33 | 28 | 24 | 87 | 72 | 63 | 52 | 41 | 36 | 31 | 26 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 75,4 | 74,9 | 70,3 | 64,3 | 57,3 | 53,4 | 49,3 | 45,8 | 79,7 | 79,1 | 75,1 | 68,8 | 61,4 | 57,3 | 53,0 | 49,2 | 81,9 | 81,3 | 77,2 | 70,7 | 63,1 | **59,2** | 54,6 | 50,8 |
| Pe | 10,1 | 11,0 | 13,1 | 15,8 | 19,4 | 21,6 | 24,0 | 26,3 | 10,5 | 11,4 | 13,4 | 16,1 | 19,7 | 21,9 | 24,4 | 26,7 | 10,6 | 11,6 | 13,5 | 16,3 | 19,9 | **22,0** | 24,6 | 26,8 |
| EER | 7,46 | 6,78 | 5,38 | 4,07 | 2,95 | 2,48 | 2,05 | 1,74 | 7,62 | 6,95 | 5,62 | 4,27 | 3,11 | 2,61 | 2,17 | 1,85 | 7,69 | 7,03 | 5,71 | 4,35 | 3,17 | **2,69** | 2,22 | 1,89 |
| Qu | 14338 | 13540 | 12707 | 11613 | 10336 | 9633 | 8895 | 8252 | 15144 | 14313 | 12999 | 11892 | 10603 | 9894 | 9147 | 8496 | 15555 | 14708 | 13364 | 12232 | 10916 | **10197** | 9428 | 8762 |
| ΔP | 96 | 78 | 69 | 57 | 45 | 39 | 34 | 29 | 107 | 87 | 69 | 58 | 46 | 40 | 34 | 29 | 113 | 92 | 73 | 61 | 49 | **42** | 36 | 31 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 84,1 | 83,5 | 79,3 | 72,7 | 64,9 | 60,7 | 56,2 | - | - | 88,0 | 83,5 | 76,6 | 68,6 | 64,2 | 59,5 | - | - | - | 87,9 | 80,7 | 72,4 | 67,8 | 62,9 | - |
| Pe | 10,8 | 11,7 | 13,7 | 16,4 | 20,1 | 22,3 | 24,8 | - | - | 12,1 | 14,0 | 16,8 | 20,4 | 22,6 | 25,1 | - | - | - | 14,4 | 17,1 | 20,8 | 23,0 | 25,5 | - |
| EER | 7,76 | 7,11 | 5,79 | 4,42 | 3,24 | 2,73 | 2,27 | - | - | 7,25 | 5,95 | 4,57 | 3,36 | 2,84 | 2,37 | - | - | - | 6,10 | 4,71 | 3,49 | 2,95 | 2,47 | - |
| Qu | 15972 | 15107 | 13735 | 12577 | 11233 | 10494 | 9713 | - | - | 15923 | 14491 | 13282 | 11880 | 11110 | 10295 | - | - | - | 15268 | 14005 | 12544 | 11743 | 10894 | - |
| ΔP | 119 | 97 | 77 | 65 | 51 | 45 | 38 | - | - | 107 | 86 | 72 | 58 | 50 | 43 | - | - | - | 95 | 80 | 64 | 56 | 48 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | 92,4 | 84,9 | 76,2 | 71,4 | 66,4 | - | - | - | - | 89,1 | 80,1 | 75,2 | 69,9 | - | - | - | - | - | 84,1 | 79,0 | 73,6 | - |
| Pe | - | - | 14,8 | 17,5 | 21,1 | 23,4 | 25,9 | - | - | - | - | 17,9 | 21,6 | 23,8 | 26,3 | - | - | - | - | - | 22,0 | 24,2 | 26,8 | - |
| EER | - | - | 6,23 | 4,85 | 3,60 | 3,06 | 2,56 | - | - | - | - | 4,97 | 3,72 | 3,16 | 2,66 | - | - | - | - | - | 3,82 | 3,26 | 2,75 | - |
| Qu | - | - | 16065 | 14747 | 13226 | 12392 | 11509 | - | - | - | - | 15507 | 13924 | 13057 | 12142 | - | - | - | - | - | 14638 | 13738 | 12791 | - |
| ΔP | - | - | 105 | 89 | 71 | 63 | 54 | - | - | - | - | 98 | 79 | 70 | 60 | - | - | - | - | - | 87 | 77 | 67 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve O | valve X | double valve Y

**OPERATION IN COOLING MODE - VERSION L**

■ = DCPX accessory

*TWu* -8 °C | *TWu* 4 °C | *TWu* 18 °C

## 0332 L

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 58,9 | 57,1 | 52,9 | 47,7 | - | - | - | - | 63,4 | 61,6 | 56,9 | 51,4 | 46,1 | - | - | - | 68,0 | 66,3 | 61,0 | 55,2 | 49,6 | 46,3 | - | - |
| Pe | 10,0 | 10,9 | 13,1 | 16,1 | - | - | - | - | 10,3 | 11,2 | 13,3 | 16,3 | 20,3 | - | - | - | 10,5 | 11,4 | 13,5 | 16,6 | 20,6 | 23,0 | - | - |
| EER | 5,88 | 5,22 | 4,04 | 2,96 | - | - | - | - | 6,18 | 5,51 | 4,28 | 3,15 | 2,27 | - | - | - | 6,46 | 5,80 | 4,52 | 3,33 | 2,41 | 2,01 | - | - |
| Qu | 11285 | 10950 | 10142 | 9133 | - | - | - | - | 12070 | 11680 | 10779 | 9724 | 8730 | - | - | - | 12930 | 12425 | 11435 | 10329 | 9288 | 8655 | - | - |
| ΔP | 39 | 36 | 31 | 25 | - | - | - | - | 43 | 40 | 34 | 28 | 22 | - | - | - | 49 | 44 | 37 | 30 | 25 | 21 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 72,7 | 71,1 | 65,3 | 59,1 | 53,2 | 49,7 | 44,8 | - | 77,5 | 76,0 | 69,7 | 63,1 | 56,9 | 53,2 | 48,4 | 44,3 | 82,5 | 81,2 | 74,4 | 67,4 | 60,8 | 56,9 | 52,1 | 47,9 |
| Pe | 10,8 | 11,7 | 13,7 | 16,8 | 20,9 | 23,3 | 25,9 | - | 11,1 | 12,0 | 14,0 | 17,0 | 21,2 | 23,6 | 26,3 | 28,7 | 11,5 | 12,3 | 14,2 | 17,3 | 21,5 | 24,0 | 26,7 | 29,1 |
| EER | 6,72 | 6,07 | 4,76 | 3,52 | 2,55 | 2,13 | 1,73 | - | 6,96 | 6,34 | 4,99 | 3,71 | 2,69 | 2,25 | 1,84 | 1,55 | 7,18 | 6,59 | 5,23 | 3,90 | 2,83 | 2,37 | 1,95 | 1,65 |
| Qu | 13811 | 13190 | 12112 | 10952 | 9858 | 9202 | 8288 | - | 14720 | 13979 | 12818 | 11596 | 10446 | 9763 | 8870 | 8129 | 15658 | 14776 | 13533 | 12248 | 11038 | 10329 | 9452 | 8680 |
| ΔP | 56 | 48 | 41 | 33 | 27 | 24 | 19 | - | 63 | 53 | 45 | 37 | 30 | 26 | 21 | 18 | 71 | 58 | 48 | 40 | 32 | 28 | 24 | 20 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 87,6 | 86,6 | 79,3 | 71,8 | 64,8 | 60,7 | 55,9 | 51,4 | 93,0 | 91,9 | 85,0 | 77,0 | 69,5 | 65,1 | 60,2 | 55,5 | 95,7 | 94,6 | 87,5 | 79,3 | 71,5 | **67,3** | 62,0 | 57,3 |
| Pe | 11,9 | 12,7 | 14,5 | 17,6 | 21,8 | 24,3 | 27,1 | 29,5 | 12,3 | 13,1 | 14,9 | 17,9 | 22,2 | 24,7 | 27,5 | 30,0 | 12,5 | 13,3 | 15,1 | 18,1 | 22,3 | **24,8** | 27,7 | 30,2 |
| EER | 7,39 | 6,83 | 5,45 | 4,08 | 2,97 | 2,50 | 2,06 | 1,74 | 7,57 | 7,03 | 5,71 | 4,30 | 3,14 | 2,64 | 2,19 | 1,85 | 7,66 | 7,12 | 5,81 | 4,38 | 3,20 | **2,71** | 2,24 | 1,90 |
| Qu | 16630 | 15634 | 14307 | 12952 | 11675 | 10934 | 10061 | 9261 | 17640 | 16591 | 14687 | 13297 | 11987 | 11235 | 10373 | 9572 | 18161 | 17085 | 15130 | 13699 | 12350 | **11583** | 10699 | 9885 |
| ΔP | 79 | 63 | 53 | 44 | 35 | 31 | 26 | 22 | 89 | 71 | 54 | 44 | 36 | 31 | 27 | 23 | 94 | 76 | 57 | 47 | 38 | **33** | 29 | 24 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 97,4 | 90,1 | 81,6 | 73,6 | 69,1 | 63,9 | - | - | 103,1 | 95,4 | 86,5 | 78,0 | 73,2 | 67,6 | - | - | - | 101,0 | 91,5 | 82,6 | 77,5 | 71,3 | - |
| Pe | - | 13,5 | 15,3 | 18,3 | 22,5 | 25,1 | 27,9 | - | - | 14,0 | 15,7 | 18,6 | 22,9 | 25,4 | 28,3 | - | - | - | 16,2 | 19,1 | 23,3 | 25,8 | 28,6 | - |
| EER | - | 7,21 | 5,90 | 4,47 | 3,27 | 2,76 | 2,29 | - | - | 7,37 | 6,08 | 4,64 | 3,41 | 2,88 | 2,39 | - | - | - | 6,24 | 4,80 | 3,55 | 3,00 | 2,49 | - |
| Qu | - | 17590 | 15585 | 14110 | 12721 | 11929 | 11026 | - | - | 18633 | 16527 | 14963 | 13489 | 12656 | 11681 | - | - | - | 17517 | 15860 | 14295 | 13419 | 12335 | - |
| ΔP | - | 80 | 60 | 50 | 40 | 35 | 30 | - | - | 90 | 68 | 56 | 45 | 40 | 34 | - | - | - | 76 | 63 | 51 | 45 | 38 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | 106,9 | 96,9 | 87,4 | 82,1 | 75,0 | - | - | - | - | 102,5 | 92,4 | 86,9 | 78,6 | - | - | - | - | - | 97,7 | 91,9 | 82,2 | - |
| Pe | - | - | 16,7 | 19,5 | 23,7 | 26,3 | 29,0 | - | - | - | - | 20,1 | 24,2 | 26,8 | 29,4 | - | - | - | - | - | 24,8 | 27,3 | 29,8 | - |
| EER | - | - | 6,39 | 4,96 | 3,68 | 3,12 | 2,58 | - | - | - | - | 5,10 | 3,82 | 3,24 | 2,67 | - | - | - | - | - | 3,95 | 3,36 | 2,75 | - |
| Qu | - | - | 18558 | 16802 | 15143 | 14222 | 12985 | - | - | - | - | 17795 | 16037 | 15067 | 13627 | - | - | - | - | - | 16978 | 15958 | 14257 | - |
| ΔP | - | - | 86 | 70 | 57 | 50 | 42 | - | - | - | - | 79 | 64 | 57 | 46 | - | - | - | - | - | 72 | 63 | 51 | - |

## 0352 L

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 70,6 | 67,7 | 63,1 | 57,2 | - | - | - | - | 75,8 | 73,0 | 67,8 | 61,6 | 54,6 | - | - | - | 81,1 | 78,4 | 72,7 | 66,1 | 58,8 | 54,9 | - | - |
| Pe | 11,8 | 13,3 | 16,0 | 19,4 | - | - | - | - | 12,0 | 13,5 | 16,2 | 19,7 | 24,4 | - | - | - | 12,3 | 13,7 | 16,5 | 20,0 | 24,7 | 27,6 | - | - |
| EER | 5,98 | 5,11 | 3,96 | 2,95 | - | - | - | - | 6,30 | 5,41 | 4,19 | 3,12 | 2,24 | - | - | - | 6,60 | 5,70 | 4,42 | 3,30 | 2,37 | 1,99 | - | - |
| Qu | 13552 | 13001 | 12108 | 10974 | - | - | - | - | 14445 | 13844 | 12855 | 11674 | 10334 | - | - | - | 15444 | 14714 | 13635 | 12397 | 11008 | 10283 | - | - |
| ΔP | 56 | 51 | 45 | 37 | - | - | - | - | 62 | 56 | 49 | 40 | 31 | - | - | - | 70 | 62 | 53 | 44 | 35 | 30 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 86,6 | 84,0 | 77,8 | 70,8 | 63,1 | 59,0 | 52,3 | - | 92,3 | 89,9 | 83,1 | 75,7 | 67,5 | 63,2 | 56,4 | 51,8 | 98,2 | 96,1 | 88,7 | 80,8 | 72,1 | 67,6 | 60,7 | 55,9 |
| Pe | 12,5 | 14,0 | 16,7 | 20,4 | 25,1 | 28,0 | 30,3 | - | 12,8 | 14,3 | 17,1 | 20,7 | 25,5 | 28,4 | 30,7 | 33,4 | 13,1 | 14,6 | 17,4 | 21,1 | 25,8 | 28,8 | 31,2 | 33,8 |
| EER | 6,90 | 6,00 | 4,65 | 3,48 | 2,51 | 2,11 | 1,73 | - | 7,19 | 6,29 | 4,87 | 3,66 | 2,65 | 2,23 | 1,84 | 1,55 | 7,48 | 6,58 | 5,10 | 3,84 | 2,79 | 2,35 | 1,95 | 1,65 |
| Qu | 16479 | 15618 | 14448 | 13144 | 11696 | 10945 | 9695 | - | 17552 | 16556 | 15296 | 13918 | 12403 | 11620 | 10358 | 9507 | 18664 | 17505 | 16157 | 14697 | 13107 | 12289 | 11021 | 10142 |
| ΔP | 79 | 68 | 58 | 48 | 38 | 33 | 26 | - | 90 | 75 | 64 | 53 | 42 | 37 | 29 | 25 | 101 | 81 | 69 | 57 | 46 | 40 | 32 | 27 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | - | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 104,2 | 102,4 | 94,5 | 86,0 | 76,8 | 72,1 | 65,0 | 60,0 | 110,5 | 108,7 | 101,3 | 92,1 | 82,2 | 77,2 | 70,0 | 64,8 | - | 111,8 | 104,3 | 94,8 | 84,6 | **78,1** | 72,2 | 66,8 |
| Pe | 13,5 | 14,9 | 17,8 | 21,4 | 26,2 | 29,2 | 31,6 | 34,3 | 13,9 | 15,3 | 18,1 | 21,9 | 26,7 | 29,6 | 32,2 | 34,9 | - | 15,5 | 18,4 | 22,1 | 26,9 | **29,5** | 32,4 | 35,1 |
| EER | 7,72 | 6,86 | 5,32 | 4,01 | 2,93 | 2,47 | 2,06 | 1,75 | 7,95 | 7,11 | 5,58 | 4,21 | 3,08 | 2,61 | 2,18 | 1,86 | - | 7,22 | 5,68 | 4,29 | 3,14 | **2,65** | 2,23 | 1,90 |
| Qu | 19819 | 18522 | 17083 | 15530 | 13854 | 12994 | 11720 | 10811 | 21014 | 19653 | 17530 | 15924 | 14202 | 13323 | 12082 | 11170 | - | 20234 | 18053 | 16391 | 14615 | **13454** | 12465 | 11536 |
| ΔP | 113 | 89 | 76 | 63 | 50 | 44 | 36 | 30 | 126 | 101 | 77 | 63 | 50 | 44 | 36 | 31 | - | 106 | 81 | 67 | 53 | **45** | 39 | 33 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 115,1 | 107,3 | 97,4 | 86,9 | 81,6 | 74,4 | - | - | - | 113,5 | 102,9 | 91,8 | 86,1 | 78,9 | - | - | - | 119,8 | 108,6 | 96,7 | 90,7 | 83,5 | - |
| Pe | - | 15,7 | 18,6 | 22,3 | 27,1 | 30,0 | 32,7 | - | - | - | 19,0 | 22,8 | 27,5 | 30,5 | 33,2 | - | - | - | 19,6 | 23,3 | 28,0 | 30,9 | 33,7 | - |
| EER | - | 7,32 | 5,78 | 4,37 | 3,21 | 2,72 | 2,28 | - | - | - | 5,96 | 4,52 | 3,33 | 2,83 | 2,38 | - | - | - | 6,12 | 4,67 | 3,45 | 2,93 | 2,47 | - |
| Qu | - | 20823 | 18586 | 16865 | 15034 | 14102 | 12853 | - | - | - | 19680 | 17836 | 15887 | 14898 | 13643 | - | - | - | 20815 | 18839 | 16762 | 15712 | 14451 | - |
| ΔP | - | 113 | 86 | 71 | 57 | 50 | 41 | - | - | - | 97 | 80 | 63 | 55 | 47 | - | - | - | 108 | 89 | 70 | 62 | 52 | - |

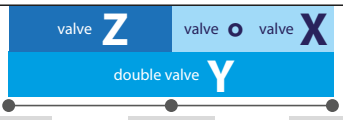
| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 114,4 | 101,8 | 95,4 | 88,1 | - | - | - | - | 120,4 | 107,0 | 100,2 | 92,9 | - | - | - | - | - | 112,3 | 105,1 | 97,8 | - |
| Pe | - | - | - | 23,8 | 28,5 | 31,4 | 34,3 | - | - | - | - | 24,4 | 29,1 | 31,9 | 34,9 | - | - | - | - | - | 29,7 | 32,5 | 35,6 | - |
| EER | - | - | - | 4,81 | 3,57 | 3,04 | 2,57 | - | - | - | - | 4,93 | 3,68 | 3,14 | 2,66 | - | - | - | - | - | 3,79 | 3,23 | 2,75 | - |
| Qu | - | - | - | 19873 | 17660 | 16544 | 15278 | - | - | - | - | 20939 | 18582 | 17396 | 16124 | - | - | - | - | - | 19529 | 18268 | 16988 | - |
| ΔP | - | - | - | 99 | 78 | 68 | 58 | - | - | - | - | 110 | 86 | 76 | 65 | - | - | - | - | - | 95 | 83 | 72 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***




## OPERATION IN COOLING MODE - VERSION L

■ = DCPX standard

### 0502 L

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 78,0 | 75,7 | 71,3 | 64,9 | - | - | - | - | 83,4 | 81,1 | 76,4 | 69,6 | 61,6 | - | - | - | 88,9 | 86,8 | 81,6 | 74,5 | 66,1 | 61,4 | - | - |
| Pe | 13,9 | 15,6 | 18,7 | 22,5 | - | - | - | - | 14,2 | 15,9 | 19,0 | 22,8 | 27,9 | - | - | - | 14,5 | 16,2 | 19,3 | 23,2 | 28,3 | 31,3 | - | - |
| EER | 5,62 | 4,87 | 3,81 | 2,89 | - | - | - | - | 5,89 | 5,12 | 4,02 | 3,05 | 2,21 | - | - | - | 6,14 | 5,37 | 4,22 | 3,21 | 2,34 | 1,96 | - | - |
| Qu | 14959 | 14513 | 13656 | 12435 | - | - | - | - | 15864 | 15369 | 14459 | 13179 | 11658 | - | - | - | 16889 | 16261 | 15291 | 13952 | 12368 | 11492 | - | - |
| ΔP | 38 | 36 | 32 | 27 | - | - | - | - | 42 | 39 | 35 | 29 | 23 | - | - | - | 47 | 43 | 38 | 31 | 25 | 21 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 94,6 | 92,7 | 87,1 | 79,6 | 70,7 | 65,8 | 60,7 | - | 100,4 | 98,8 | 92,8 | 84,9 | 75,5 | 70,4 | 65,0 | 62,5 | 106,5 | 105,2 | 98,8 | 90,4 | 80,6 | 75,2 | 69,5 | 67,1 |
| Pe | 14,8 | 16,5 | 19,7 | 23,6 | 28,7 | 31,7 | 35,1 | - | 15,1 | 16,8 | 20,0 | 24,0 | 29,2 | 32,2 | 35,6 | 38,2 | 15,5 | 17,2 | 20,4 | 24,4 | 29,7 | 32,8 | 36,1 | 38,6 |
| EER | 6,39 | 5,62 | 4,43 | 3,37 | 2,46 | 2,07 | 1,73 | - | 6,64 | 5,87 | 4,63 | 3,54 | 2,59 | 2,18 | 1,83 | 1,64 | 6,88 | 6,12 | 4,84 | 3,70 | 2,72 | 2,30 | 1,92 | 1,74 |
| Qu | 17953 | 17190 | 16155 | 14752 | 13102 | 12193 | 11231 | - | 19056 | 18157 | 17052 | 15582 | 13863 | 12918 | 11918 | 11467 | 20198 | 19132 | 17956 | 16418 | 14629 | 13646 | 12610 | 12161 |
| ΔP | 53 | 46 | 41 | 34 | 27 | 23 | 20 | - | 60 | 51 | 45 | 37 | 30 | 26 | 22 | 20 | 66 | 55 | 48 | 40 | 32 | 28 | 24 | 22 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 112,8 | 111,8 | 104,9 | 96,0 | 85,7 | 80,1 | 74,2 | 71,7 | 119,2 | 118,3 | 112,1 | 102,7 | 91,8 | 85,8 | 79,5 | 77,0 | 122,5 | 121,6 | 115,2 | 105,5 | 94,4 | **88,5** | 81,9 | 79,4 |
| Pe | 15,9 | 17,6 | 20,8 | 24,9 | 30,2 | 33,3 | 36,7 | 39,1 | 16,2 | 18,0 | 21,2 | 25,4 | 30,7 | 33,9 | 37,3 | 39,7 | 16,4 | 18,2 | 21,5 | 25,6 | 31,0 | **34,1** | 37,6 | 39,9 |
| EER | 7,11 | 6,36 | 5,04 | 3,86 | 2,84 | 2,41 | 2,02 | 1,83 | 7,35 | 6,58 | 5,28 | 4,05 | 2,99 | 2,53 | 2,13 | 1,94 | 7,45 | 6,69 | 5,37 | 4,12 | 3,05 | **2,6** | 2,18 | 1,99 |
| Qu | 21377 | 20177 | 18924 | 17313 | 15447 | 14425 | 13348 | 12902 | 22594 | 21341 | 19357 | 17716 | 15825 | 14793 | 13707 | 13277 | 23216 | 21935 | 19901 | 18218 | 16283 | **15234** | 14117 | 13689 |
| ΔP | 74 | 60 | 53 | 44 | 35 | 31 | 26 | 24 | 82 | 67 | 53 | 44 | 35 | 31 | 26 | 25 | 87 | 71 | 56 | 47 | 37 | **33** | 28 | 26 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 125,9 | 124,9 | 118,3 | 108,4 | 97,0 | 90,8 | 84,2 | - | - | 131,7 | 124,7 | 114,3 | 102,4 | 95,9 | 89,1 | - | - | - | 131,3 | 120,4 | 107,9 | 101,1 | 94,0 | - |
| Pe | 16,7 | 18,4 | 21,7 | 25,8 | 31,2 | 34,4 | 37,9 | - | - | 18,8 | 22,1 | 26,3 | 31,8 | 35,0 | 38,4 | - | - | - | 22,6 | 26,8 | 32,3 | 35,5 | 39,0 | - |
| EER | 7,56 | 6,80 | 5,46 | 4,20 | 3,10 | 2,64 | 2,22 | - | - | 7,01 | 5,64 | 4,34 | 3,22 | 2,74 | 2,32 | - | - | - | 5,81 | 4,49 | 3,34 | 2,85 | 2,41 | - |
| Qu | 23847 | 22539 | 20454 | 18728 | 16747 | 15668 | 14533 | - | - | 23771 | 21585 | 19769 | 17695 | 16568 | 15384 | - | - | - | 22749 | 20841 | 18670 | 17493 | 16259 | - |
| ΔP | 91 | 74 | 59 | 49 | 40 | 35 | 30 | - | - | 83 | 66 | 55 | 44 | 39 | 33 | - | - | - | 73 | 61 | 49 | 43 | 37 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | 138,1 | 126,6 | 113,6 | 106,5 | 99,1 | - | - | - | - | 133,0 | 119,4 | 112,1 | 104,4 | - | - | - | - | - | 125,4 | 117,7 | 109,7 | - |
| Pe | - | - | 23,1 | 27,4 | 32,9 | 36,1 | 39,6 | - | - | - | - | 27,9 | 33,5 | 36,7 | 40,2 | - | - | - | - | - | 34,1 | 37,3 | 40,9 | - |
| EER | - | - | 5,99 | 4,63 | 3,46 | 2,95 | 2,50 | - | - | - | - | 4,77 | 3,57 | 3,05 | 2,59 | - | - | - | - | - | 3,68 | 3,15 | 2,68 | - |
| Qu | - | - | 23947 | 21944 | 19673 | 18445 | 17158 | - | - | - | - | 23077 | 20704 | 19422 | 18081 | - | - | - | - | - | 21761 | 20425 | 19029 | - |
| ΔP | - | - | 81 | 68 | 55 | 48 | 42 | - | - | - | - | 75 | 60 | 53 | 46 | - | - | - | - | - | 67 | 59 | 51 | - |

### 0552 L

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | - | - | - |
| Pc | 85,1 | 82,7 | 77,8 | 71,0 | - | - | - | - | 90,9 | 88,4 | 83,3 | 76,1 | 67,7 | - | - | - | 96,7 | 94,5 | 88,9 | 81,3 | 72,5 | - | - | - |
| Pe | 15,2 | 17,1 | 20,8 | 24,9 | - | - | - | - | 15,6 | 17,5 | 21,2 | 25,4 | 30,9 | - | - | - | 16,0 | 18,0 | 21,6 | 25,9 | 31,4 | - | - | - |
| EER | 5,60 | 4,82 | 3,75 | 2,85 | - | - | - | - | 5,83 | 5,04 | 3,93 | 3,00 | 2,19 | - | - | - | 6,04 | 5,26 | 4,12 | 3,14 | 2,31 | - | - | - |
| Qu | 16323 | 15849 | 14913 | 13603 | - | - | - | - | 17288 | 16761 | 15772 | 14403 | 12816 | - | - | - | 18381 | 17712 | 16666 | 15232 | 13572 | - | - | - |
| ΔP | 46 | 43 | 38 | 32 | - | - | - | - | 50 | 47 | 41 | 34 | 27 | - | - | - | 56 | 50 | 45 | 37 | 30 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | - | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 102,7 | 100,8 | 94,8 | 86,8 | 77,5 | 72,4 | - | - | 109,0 | 107,3 | 100,9 | 92,4 | 82,6 | 77,2 | 74,0 | 71,7 | 115,4 | 114,2 | 107,4 | 98,4 | 88,0 | 82,4 | 79,0 | 76,6 |
| Pe | 16,4 | 18,4 | 22,0 | 26,4 | 32,0 | 35,3 | - | - | 16,9 | 18,8 | 22,5 | 26,9 | 32,6 | 35,9 | 39,0 | 40,5 | 17,3 | 19,3 | 23,0 | 27,5 | 33,2 | 36,6 | 39,5 | 41,1 |
| EER | 6,25 | 5,48 | 4,30 | 3,29 | 2,42 | 2,05 | - | - | 6,46 | 5,70 | 4,49 | 3,44 | 2,53 | 2,15 | 1,90 | 1,77 | 6,65 | 5,91 | 4,67 | 3,58 | 2,65 | 2,25 | 2,00 | 1,86 |
| Qu | 19516 | 18703 | 17593 | 16093 | 14356 | 13408 | - | - | 20693 | 19733 | 18556 | 16985 | 15169 | 14177 | 13574 | 13148 | 21910 | 20772 | 19524 | 17883 | 15987 | 14951 | 14345 | 13896 |
| ΔP | 63 | 55 | 49 | 41 | 32 | 28 | - | - | 70 | 60 | 53 | 44 | 35 | 31 | 28 | 27 | 78 | 64 | 57 | 48 | 38 | 33 | 31 | 29 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 122,1 | 121,2 | 113,9 | 104,5 | 93,6 | 87,6 | 84,2 | 81,6 | 129,0 | 128,1 | 121,7 | 111,6 | 100,0 | 93,7 | 90,2 | 87,5 | 132,5 | 131,6 | 125,0 | 114,7 | 102,8 | **96,5** | 92,9 | 90,0 |
| Pe | 17,8 | 19,8 | 23,5 | 28,0 | 33,9 | 37,3 | 40,1 | 41,7 | 18,4 | 20,3 | 24,0 | 28,7 | 34,6 | 38,0 | 40,8 | 42,4 | 18,7 | 20,6 | 24,3 | 29,0 | 34,9 | **38,3** | 41,1 | 42,7 |
| EER | 6,85 | 6,12 | 4,85 | 3,73 | 2,76 | 2,35 | 2,10 | 1,96 | 7,02 | 6,31 | 5,06 | 3,89 | 2,89 | 2,46 | 2,21 | 2,06 | 7,10 | 6,40 | 5,14 | 3,96 | 2,94 | **2,52** | 2,26 | 2,11 |
| Qu | 23166 | 21886 | 20562 | 18844 | 16862 | 15779 | 15170 | 14697 | 24462 | 23127 | 21017 | 19270 | 17257 | 16159 | 15565 | 15083 | 25124 | 23761 | 21600 | 19810 | 17747 | **16629** | 16026 | 15531 |
| ΔP | 87 | 70 | 62 | 52 | 42 | 37 | 34 | 32 | 96 | 78 | 62 | 52 | 42 | 37 | 34 | 32 | 101 | 83 | 66 | 55 | 44 | **39** | 36 | 34 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 136,0 | 135,2 | 128,3 | 117,8 | 105,6 | 99,0 | 95,5 | - | - | 142,4 | 135,2 | 124,1 | 111,4 | 104,4 | 101,0 | - | - | - | 142,2 | 130,6 | 117,3 | 110,0 | 106,6 | - |
| Pe | 18,9 | 20,8 | 24,6 | 29,3 | 35,3 | 38,7 | 41,4 | - | - | 21,4 | 25,1 | 29,9 | 35,9 | 39,4 | 42,0 | - | - | - | 25,7 | 30,5 | 36,6 | 40,1 | 42,7 | - |
| EER | 7,18 | 6,49 | 5,22 | 4,02 | 3,00 | 2,56 | 2,31 | - | - | 6,65 | 5,38 | 4,15 | 3,10 | 2,65 | 2,40 | - | - | - | 5,52 | 4,28 | 3,20 | 2,74 | 2,50 | - |
| Qu | 25795 | 24403 | 22192 | 20357 | 18244 | 17092 | 16495 | - | - | 25715 | 23401 | 21475 | 19260 | 18052 | 17453 | - | - | - | 24645 | 22624 | 20303 | 19039 | 18441 | - |
| ΔP | 107 | 87 | 69 | 58 | 47 | 41 | 38 | - | - | 96 | 77 | 65 | 52 | 46 | 43 | - | - | - | 85 | 72 | 58 | 51 | 48 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - | - |
| Pc | - | - | 149,3 | 137,3 | 123,4 | 115,8 | - | - | - | - | - | 144,1 | 129,6 | 121,6 | - | - | - | - | - | - | 135,9 | 127,7 | - | - |
| Pe | - | - | 26,4 | 31,2 | 37,3 | 40,9 | - | - | - | - | - | 31,9 | 38,1 | 41,7 | - | - | - | - | - | - | 38,8 | 42,4 | - | - |
| EER | - | - | 5,66 | 4,40 | 3,30 | 2,83 | - | - | - | - | - | 4,52 | 3,40 | 2,92 | - | - | - | - | - | - | 3,50 | 3,01 | - | - |
| Qu | - | - | 25923 | 23804 | 21375 | 20053 | - | - | - | - | - | 25016 | 22476 | 21093 | - | - | - | - | - | - | 23604 | 22160 | - | - |
| ΔP | - | - | 94 | 80 | 64 | 57 | - | - | - | - | - | 88 | 71 | 63 | - | - | - | - | - | - | 78 | 69 | - | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve O | valve X | double valve Y

**OPERATION IN COOLING MODE - VERSION L**

■ = DCPX standard

*TWu* -8 °C | *TWu* 4 °C | *TWu* 18 °C

### 0602 L

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 99,3 | 96,3 | 90,4 | 82,4 | - | - | - | - | 105,9 | 102,9 | 96,7 | 88,2 | 78,5 | - | - | - | 112,6 | 109,9 | 103,2 | 94,2 | 84,0 | 78,4 | - | - |
| Pe | 14,9 | 18,7 | 23,9 | 28,6 | - | - | - | - | 15,8 | 19,4 | 24,3 | 29,2 | 35,5 | - | - | - | 16,6 | 20,1 | 24,8 | 29,7 | 36,1 | 39,9 | - | - |
| EER | 6,65 | 5,15 | 3,78 | 2,88 | - | - | - | - | 6,71 | 5,29 | 3,97 | 3,02 | 2,21 | - | - | - | 6,79 | 5,46 | 4,16 | 3,17 | 2,33 | 1,97 | - | - |
| Qu | 19029 | 18447 | 17309 | 15769 | - | - | - | - | 20135 | 19492 | 18299 | 16687 | 14846 | - | - | - | 21388 | 20581 | 19328 | 17640 | 15711 | 14663 | - | - |
| ΔP | 41 | 39 | 34 | 28 | - | - | - | - | 45 | 42 | 37 | 31 | 24 | - | - | - | 50 | 45 | 40 | 33 | 26 | 23 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 119,5 | 117,1 | 110,0 | 100,5 | 89,7 | 83,8 | 80,4 | - | 126,7 | 124,6 | 117,0 | 107,0 | 95,6 | 89,4 | 86,0 | 80,6 | 134,0 | 132,5 | 124,4 | 113,9 | 101,8 | 95,2 | 91,8 | 86,1 |
| Pe | 17,3 | 20,8 | 25,3 | 30,3 | 36,8 | 40,6 | 43,7 | - | 18,0 | 21,4 | 25,9 | 30,9 | 37,4 | 41,3 | 44,3 | 47,9 | 18,7 | 22,0 | 26,5 | 31,6 | 38,2 | 42,0 | 45,0 | 48,6 |
| EER | 6,89 | 5,63 | 4,34 | 3,32 | 2,44 | 2,07 | 1,84 | - | 7,02 | 5,81 | 4,52 | 3,46 | 2,55 | 2,16 | 1,94 | 1,68 | 7,16 | 6,01 | 4,70 | 3,61 | 2,67 | 2,27 | 2,04 | 1,77 |
| Qu | 22686 | 21713 | 20393 | 18629 | 16609 | 15511 | 14889 | - | 24029 | 22889 | 21497 | 19654 | 17542 | 16393 | 15769 | 14781 | 25415 | 24071 | 22606 | 20683 | 18480 | 17280 | 16659 | 15617 |
| ΔP | 56 | 49 | 43 | 36 | 29 | 25 | 23 | - | 62 | 53 | 47 | 39 | 31 | 27 | 25 | 22 | 69 | 57 | 51 | 42 | 34 | 30 | 27 | 24 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 141,6 | 140,5 | 131,9 | 120,9 | 108,2 | 101,2 | 97,9 | 91,8 | 149,4 | 148,3 | 140,8 | 129,0 | 115,6 | 108,2 | 104,9 | 98,4 | 153,4 | 152,3 | 144,5 | 132,5 | 118,8 | **111,5** | 107,9 | 101,3 |
| Pe | 19,4 | 22,6 | 27,1 | 32,2 | 38,9 | 42,8 | 45,6 | 49,3 | 20,0 | 23,2 | 27,7 | 33,0 | 39,8 | 43,7 | 46,4 | 50,1 | 20,4 | 23,5 | 28,0 | 33,3 | 40,1 | **44,1** | 46,7 | 50,4 |
| EER | 7,31 | 6,21 | 4,88 | 3,75 | 2,78 | 2,36 | 2,14 | 1,86 | 7,46 | 6,39 | 5,08 | 3,91 | 2,91 | 2,48 | 2,26 | 1,96 | 7,54 | 6,47 | 5,16 | 3,98 | 2,96 | **2,53** | 2,31 | 2,01 |
| Qu | 26844 | 25339 | 23791 | 21785 | 19484 | 18230 | 17615 | 16517 | 28313 | 26747 | 24298 | 22264 | 19932 | 18660 | 18075 | 16953 | 29063 | 27466 | 24962 | 22880 | 20493 | **19199** | 18611 | 17460 |
| ΔP | 77 | 62 | 55 | 46 | 37 | 32 | 30 | 26 | 85 | 69 | 55 | 46 | 37 | 32 | 30 | 27 | 90 | 73 | 58 | 49 | 39 | **34** | 32 | 28 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 157,4 | 156,3 | 148,3 | 136,1 | 122,0 | 114,3 | 111,0 | - | - | 164,5 | 156,1 | 143,3 | 128,6 | 120,6 | 117,4 | - | - | - | 164,0 | 150,7 | 135,4 | 127,0 | 124,0 | - |
| Pe | 20,7 | 23,9 | 28,4 | 33,7 | 40,5 | 44,5 | 47,0 | - | - | 24,5 | 29,0 | 34,4 | 41,3 | 45,3 | 47,7 | - | - | - | 29,8 | 35,2 | 42,1 | 46,2 | 48,4 | - |
| EER | 7,61 | 6,55 | 5,23 | 4,04 | 3,01 | 2,57 | 2,36 | - | - | 6,71 | 5,38 | 4,16 | 3,11 | 2,66 | 2,46 | - | - | - | 5,51 | 4,28 | 3,21 | 2,75 | 2,56 | - |
| Qu | 29821 | 28193 | 25634 | 23504 | 21062 | 19730 | 19157 | - | - | 29674 | 27005 | 24777 | 22222 | 20828 | 20276 | - | - | - | 28410 | 26082 | 23412 | 21956 | 21431 | - |
| ΔP | 94 | 77 | 61 | 51 | 41 | 36 | 34 | - | - | 85 | 68 | 57 | 46 | 40 | 38 | - | - | - | 75 | 63 | 51 | 45 | 43 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 172,1 | 158,3 | 142,3 | 133,5 | 130,7 | - | - | - | - | 165,9 | 149,3 | 140,2 | 137,7 | - | - | - | - | 173,8 | 156,5 | 147,0 | 144,8 | - |
| Pe | - | - | 30,5 | 36,0 | 43,0 | 47,1 | 49,1 | - | - | - | - | 36,8 | 43,9 | 48,0 | 49,9 | - | - | - | - | 37,7 | 44,8 | 48,9 | 50,7 | - |
| EER | - | - | 5,64 | 4,40 | 3,31 | 2,84 | 2,66 | - | - | - | - | 4,50 | 3,40 | 2,92 | 2,76 | - | - | - | - | 4,61 | 3,49 | 3,01 | 2,86 | - |
| Qu | - | - | 29849 | 27419 | 24632 | 23112 | 22622 | - | - | - | - | 28786 | 25880 | 24295 | 23850 | - | - | - | - | 30183 | 27156 | 25505 | 25113 | - |
| ΔP | - | - | 83 | 70 | 56 | 50 | 48 | - | - | - | - | 77 | 62 | 55 | 53 | - | - | - | - | 85 | 69 | 61 | 59 | - |

### 0652 L

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | - | - | - |
| Pc | 109,7 | 105,9 | 98,8 | 89,6 | - | - | - | - | 116,8 | 113,0 | 105,5 | 95,8 | 85,1 | - | - | - | 123,8 | 120,4 | 112,4 | 102,2 | 90,9 | - | - | - |
| Pe | 19,6 | 22,2 | 26,9 | 32,2 | - | - | - | - | 20,1 | 22,8 | 27,4 | 32,8 | 40,0 | - | - | - | 20,7 | 23,3 | 28,0 | 33,5 | 40,7 | - | - | - |
| EER | 5,60 | 4,77 | 3,67 | 2,78 | - | - | - | - | 5,81 | 4,96 | 3,85 | 2,92 | 2,13 | - | - | - | 5,99 | 5,16 | 4,02 | 3,05 | 2,23 | - | - | - |
| Qu | 21030 | 20305 | 18922 | 17167 | - | - | - | - | 22207 | 21413 | 19972 | 18136 | 16097 | - | - | - | 23535 | 22562 | 21058 | 19142 | 17003 | - | - | - |
| ΔP | 50 | 47 | 41 | 33 | - | - | - | - | 54 | 50 | 44 | 36 | 28 | - | - | - | 61 | 54 | 47 | 39 | 31 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | - | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 131,1 | 128,0 | 119,6 | 108,9 | 96,8 | 90,3 | - | - | 138,6 | 135,9 | 127,0 | 115,7 | 103,0 | 96,1 | 92,7 | 89,8 | 146,3 | 144,2 | 134,8 | 123,0 | 109,6 | 102,3 | 98,8 | 95,8 |
| Pe | 21,2 | 23,9 | 28,6 | 34,1 | 41,5 | 45,8 | - | - | 21,8 | 24,5 | 29,2 | 34,8 | 42,3 | 46,6 | 49,6 | 51,6 | 22,5 | 25,2 | 29,9 | 35,6 | 43,1 | 47,5 | 50,4 | 52,4 |
| EER | 6,18 | 5,35 | 4,19 | 3,19 | 2,33 | 1,97 | - | - | 6,35 | 5,54 | 4,35 | 3,32 | 2,44 | 2,06 | 1,87 | 1,74 | 6,51 | 5,73 | 4,51 | 3,45 | 2,54 | 2,15 | 1,96 | 1,83 |
| Qu | 24907 | 23752 | 22182 | 20182 | 17942 | 16727 | - | - | 26318 | 24983 | 23341 | 21258 | 18915 | 17642 | 17007 | 16477 | 27769 | 26214 | 24499 | 22337 | 19894 | 18563 | 17934 | 17372 |
| ΔP | 67 | 58 | 51 | 42 | 33 | 29 | - | - | 75 | 63 | 55 | 46 | 36 | 32 | 29 | 28 | 83 | 68 | 59 | 49 | 39 | 34 | 32 | 30 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 154,2 | 152,5 | 142,7 | 130,3 | 116,2 | 108,5 | 105,1 | 101,8 | 162,3 | 160,6 | 151,9 | 138,8 | 124,0 | 115,9 | 112,5 | 109,0 | 166,4 | 164,7 | 155,9 | 142,5 | 127,3 | **119,3** | 115,7 | 112,1 |
| Pe | 23,1 | 25,8 | 30,6 | 36,4 | 44,0 | 48,4 | 51,1 | 53,1 | 23,9 | 26,5 | 31,3 | 37,2 | 44,9 | 49,5 | 52,0 | 54,0 | 24,2 | 26,9 | 31,7 | 37,6 | 45,4 | **49,9** | 52,4 | 54,4 |
| EER | 6,66 | 5,91 | 4,67 | 3,58 | 2,64 | 2,24 | 2,06 | 1,92 | 6,80 | 6,06 | 4,85 | 3,73 | 2,76 | 2,34 | 2,16 | 2,02 | 6,86 | 6,13 | 4,92 | 3,79 | 2,81 | **2,39** | 2,21 | 2,06 |
| Qu | 29258 | 27530 | 25738 | 23488 | 20939 | 19549 | 18930 | 18336 | 30783 | 28994 | 26237 | 23967 | 21388 | 19978 | 19393 | 18786 | 31558 | 29739 | 26929 | 24610 | 21973 | **20540** | 19955 | 19331 |
| ΔP | 91 | 73 | 64 | 53 | 42 | 37 | 35 | 33 | 101 | 81 | 64 | 53 | 43 | 37 | 35 | 33 | 106 | 85 | 67 | 56 | 45 | **39** | 37 | 35 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 170,5 | 168,9 | 159,8 | 146,2 | 130,7 | 122,2 | 118,9 | - | - | 177,3 | 167,8 | 153,7 | 137,5 | 128,7 | 125,6 | - | - | 185,9 | 176,0 | 161,4 | 144,5 | 135,3 | 132,5 | - |
| Pe | 24,6 | 27,2 | 32,1 | 38,1 | 45,8 | 50,4 | 52,7 | - | - | 28,0 | 32,9 | 38,9 | 46,7 | 51,3 | 53,5 | - | - | 28,8 | 33,7 | 39,8 | 47,7 | 52,3 | 54,3 | - |
| EER | 6,93 | 6,20 | 4,98 | 3,84 | 2,85 | 2,43 | 2,25 | - | - | 6,33 | 5,10 | 3,95 | 2,94 | 2,51 | 2,35 | - | - | 6,44 | 5,22 | 4,05 | 3,03 | 2,59 | 2,44 | - |
| Qu | 32342 | 30491 | 27628 | 25261 | 22565 | 21090 | 20527 | - | - | 32020 | 29051 | 26586 | 23772 | 22230 | 21699 | - | - | 33580 | 30503 | 27940 | 25007 | 23399 | 22910 | - |
| ΔP | 111 | 90 | 71 | 59 | 47 | 41 | 39 | - | - | 99 | 78 | 66 | 53 | 46 | 44 | - | - | 108 | 86 | 73 | 58 | 51 | 49 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - | - |
| Pc | - | - | 184,3 | 169,1 | 151,7 | 142,0 | - | - | - | - | 192,8 | 177,0 | 158,9 | 148,9 | - | - | - | - | - | 185,1 | 166,3 | 156,0 | - | - |
| Pe | - | - | 34,7 | 40,8 | 48,7 | 53,3 | - | - | - | - | 35,6 | 41,8 | 49,7 | 54,4 | - | - | - | - | - | 42,8 | 50,8 | 55,5 | - | - |
| EER | - | - | 5,32 | 4,15 | 3,11 | 2,66 | - | - | - | - | 5,41 | 4,24 | 3,20 | 2,74 | - | - | - | - | - | 4,32 | 3,27 | 2,81 | - | - |
| Qu | - | - | 31986 | 29322 | 26270 | 24594 | - | - | - | - | 33496 | 30732 | 27559 | 25815 | - | - | - | - | - | 32169 | 28874 | 27061 | - | - |
| ΔP | - | - | 95 | 80 | 64 | 56 | - | - | - | - | 104 | 88 | 71 | 62 | - | - | - | - | - | 96 | 77 | 68 | - | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve O valve X | double valve Y

## OPERATION IN COOLING MODE - VERSION L

■ = DCPX standard

*TWu* -8 °C | *TWu* 4 °C | *TWu* 18 °C

### 0682 L

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | 29 | - | - | - | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 123,1 | 120,8 | 115,2 | 106,2 | 95,2 | - | - | - | 131,6 | 129,3 | 123,3 | 113,8 | 102,1 | 95,5 | - | - | 140,2 | 138,3 | 131,8 | 121,7 | 109,3 | 102,4 | 95,1 | - |
| Pe | 21,6 | 24,2 | 29,1 | 34,8 | 42,5 | - | - | - | 22,2 | 24,7 | 29,5 | 35,3 | 43,1 | 47,7 | - | - | 22,7 | 25,3 | 30,1 | 35,9 | 43,7 | 48,3 | 53,5 | - |
| EER | 5,69 | 4,99 | 3,96 | 3,05 | 2,24 | - | - | - | 5,94 | 5,23 | 4,18 | 3,22 | 2,37 | 2,00 | - | - | 6,18 | 5,47 | 4,39 | 3,39 | 2,50 | 2,12 | 1,78 | - |
| Qu | 23594 | 23151 | 22076 | 20350 | 18216 | - | - | - | 25026 | 24506 | 23362 | 21545 | 19312 | 18067 | - | - | 26646 | 25923 | 24703 | 22792 | 20456 | 19156 | 17783 | - |
| ΔP | 50 | 49 | 44 | 38 | 30 | - | - | - | 55 | 53 | 48 | 41 | 33 | 29 | - | - | 62 | 57 | 52 | 44 | 36 | 31 | 27 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 149,2 | 147,7 | 140,7 | 129,9 | 116,8 | 109,5 | 101,8 | - | 158,4 | 157,4 | 149,9 | 138,5 | 124,7 | 117,0 | 108,9 | 97,8 | 168,0 | 167,7 | 159,6 | 147,5 | 133,0 | 124,9 | 116,4 | 104,8 |
| Pe | 23,3 | 25,8 | 30,6 | 36,5 | 44,3 | 49,0 | 54,1 | - | 23,9 | 26,4 | 31,2 | 37,1 | 44,9 | 49,6 | 54,8 | 64,0 | 24,6 | 27,1 | 31,9 | 37,8 | 45,7 | 50,3 | 55,5 | 64,6 |
| EER | 6,41 | 5,71 | 4,59 | 3,56 | 2,64 | 2,24 | 1,88 | - | 6,63 | 5,95 | 4,80 | 3,73 | 2,77 | 2,36 | 1,99 | 1,53 | 6,83 | 6,18 | 5,01 | 3,91 | 2,91 | 2,48 | 2,10 | 1,62 |
| Qu | 28332 | 27400 | 26098 | 24091 | 21650 | 20293 | 18861 | - | 30082 | 28940 | 27550 | 25443 | 22893 | 21479 | 19987 | 17934 | 31896 | 30496 | 29014 | 26807 | 24151 | 22679 | 21127 | 19011 |
| ΔP | 70 | 62 | 56 | 48 | 39 | 34 | 29 | - | 78 | 68 | 62 | 52 | 42 | 37 | 32 | 26 | 87 | 73 | 66 | 57 | 46 | 41 | 35 | 29 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 178,0 | 178,2 | 169,5 | 156,8 | 141,5 | 133,0 | 124,1 | 112,1 | 188,2 | 188,4 | 181,1 | 167,6 | 151,4 | 142,5 | 133,1 | 120,5 | 193,4 | 193,6 | 186,1 | 172,3 | 155,7 | **147,0** | 137,0 | 124,3 |
| Pe | 25,3 | 27,8 | 32,6 | 38,5 | 46,4 | 51,1 | 56,3 | 65,2 | 26,1 | 28,6 | 33,3 | 39,2 | 47,2 | 52,0 | 57,2 | 66,0 | 26,5 | 29,0 | 33,7 | 39,6 | 47,6 | **52,3** | 57,6 | 66,3 |
| EER | 7,03 | 6,40 | 5,20 | 4,07 | 3,05 | 2,60 | 2,20 | 1,72 | 7,21 | 6,59 | 5,44 | 4,27 | 3,21 | 2,74 | 2,33 | 1,83 | 7,29 | 6,68 | 5,53 | 4,35 | 3,27 | **2,81** | 2,38 | 1,87 |
| Qu | 33771 | 32165 | 30585 | 28272 | 25500 | 23967 | 22351 | 20173 | 35705 | 34023 | 31288 | 28935 | 26127 | 24578 | 22945 | 20775 | 36695 | 34972 | 32170 | 29758 | 26885 | **25312** | 23631 | 21431 |
| ΔP | 97 | 80 | 73 | 62 | 50 | 45 | 39 | 32 | 108 | 90 | 73 | 62 | 51 | 45 | 39 | 32 | 114 | 95 | 77 | 66 | 54 | **48** | 42 | 34 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 198,7 | 198,9 | 191,2 | 177,0 | 160,1 | 150,8 | 140,9 | - | - | 209,8 | 201,5 | 186,6 | 169,0 | 159,3 | 149,1 | - | - | - | 212,1 | 196,6 | 178,2 | 168,1 | 157,4 | - |
| Pe | 27,0 | 29,4 | 34,1 | 40,0 | 48,0 | 52,7 | 58,0 | - | - | 30,2 | 34,9 | 40,8 | 48,8 | 53,5 | 58,8 | - | - | - | 35,8 | 41,7 | 49,6 | 54,4 | 59,6 | - |
| EER | 7,37 | 6,77 | 5,61 | 4,42 | 3,34 | 2,86 | 2,43 | - | - | 6,94 | 5,77 | 4,57 | 3,47 | 2,98 | 2,54 | - | - | - | 5,93 | 4,71 | 3,59 | 3,09 | 2,64 | - |
| Qu | 37699 | 35936 | 33065 | 30594 | 27655 | 26035 | 24329 | - | - | 37904 | 34896 | 32302 | 29229 | 27539 | 25759 | - | - | - | 36780 | 34061 | 30851 | 29088 | 27232 | - |
| ΔP | 120 | 100 | 81 | 70 | 57 | 50 | 44 | - | - | 111 | 91 | 78 | 64 | 56 | 49 | - | - | - | 101 | 86 | 71 | 63 | 55 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | 222,9 | 206,7 | 187,6 | 177,1 | 166,0 | - | - | - | - | 217,1 | 197,2 | 186,3 | 174,9 | - | - | - | - | - | 207,1 | 195,8 | 183,9 | - |
| Pe | - | - | 36,7 | 42,6 | 50,6 | 55,3 | 60,5 | - | - | - | - | 43,6 | 51,5 | 56,2 | 61,5 | - | - | - | - | - | 52,5 | 57,2 | 62,5 | - |
| EER | - | - | 6,07 | 4,85 | 3,71 | 3,20 | 2,74 | - | - | - | - | 4,98 | 3,83 | 3,31 | 2,84 | - | - | - | - | - | 3,94 | 3,42 | 2,94 | - |
| Qu | - | - | 38715 | 35868 | 32519 | 30682 | 28750 | - | - | - | - | 37725 | 34233 | 32320 | 30310 | - | - | - | - | - | 35993 | 34003 | 31913 | - |
| ΔP | - | - | 111 | 96 | 79 | 70 | 61 | - | - | - | - | 106 | 87 | 78 | 68 | - | - | - | - | - | 96 | 86 | 76 | - |

### 0702 L

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | 29 | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 141,5 | 138,0 | 131,2 | 120,7 | 107,7 | - | - | - | 151,4 | 147,9 | 140,5 | 129,2 | 115,4 | - | - | - | 161,4 | 158,3 | 150,1 | 138,1 | 123,4 | 115,2 | - | - |
| Pe | 25,6 | 28,1 | 33,2 | 40,0 | 49,2 | - | - | - | 26,3 | 28,8 | 33,9 | 40,6 | 49,9 | - | - | - | 27,0 | 29,5 | 34,5 | 41,3 | 50,7 | 56,3 | - | - |
| EER | 5,52 | 4,91 | 3,95 | 3,02 | 2,19 | - | - | - | 5,77 | 5,15 | 4,15 | 3,18 | 2,31 | - | - | - | 5,98 | 5,37 | 4,35 | 3,34 | 2,44 | 2,05 | - | - |
| Qu | 27149 | 26475 | 25158 | 23139 | 20629 | - | - | - | 28820 | 28047 | 26621 | 24479 | 21845 | - | - | - | 30708 | 29688 | 28143 | 25874 | 23113 | 21561 | - | - |
| ΔP | 64 | 61 | 55 | 47 | 37 | - | - | - | 71 | 67 | 60 | 51 | 40 | - | - | - | 80 | 72 | 65 | 55 | 44 | 38 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 171,8 | 169,0 | 160,1 | 147,3 | 131,8 | 123,1 | 113,9 | - | 182,5 | 180,2 | 170,5 | 156,9 | 140,5 | 131,4 | 121,7 | 113,2 | 193,5 | 192,0 | 181,4 | 167,0 | 149,7 | 140,1 | 129,9 | 121,2 |
| Pe | 27,8 | 30,2 | 35,3 | 42,1 | 51,4 | 57,1 | 63,4 | - | 28,6 | 31,0 | 36,1 | 42,9 | 52,3 | 58,0 | 64,3 | 71,6 | 29,5 | 31,9 | 36,9 | 43,8 | 53,2 | 58,9 | 65,2 | 72,4 |
| EER | 6,19 | 5,59 | 4,54 | 3,50 | 2,56 | 2,16 | 1,80 | - | 6,38 | 5,81 | 4,73 | 3,66 | 2,69 | 2,27 | 1,89 | 1,58 | 6,56 | 6,02 | 4,91 | 3,81 | 2,81 | 2,38 | 1,99 | 1,67 |
| Qu | 32669 | 31398 | 29724 | 27326 | 24434 | 22818 | 21093 | - | 34699 | 33175 | 31366 | 28835 | 25810 | 24125 | 22332 | 20771 | 36798 | 34967 | 33018 | 30356 | 27197 | 25446 | 23586 | 22000 |
| ΔP | 90 | 79 | 71 | 60 | 48 | 42 | 36 | - | 100 | 86 | 77 | 65 | 52 | 46 | 39 | 34 | 112 | 93 | 83 | 70 | 56 | 49 | 42 | 37 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 204,9 | 204,0 | 192,6 | 177,2 | 159,1 | 149,0 | 138,4 | 129,5 | 216,7 | 215,7 | 205,7 | 189,3 | 170,1 | 159,4 | 148,2 | 139,1 | 222,6 | 221,7 | 211,3 | 194,5 | 174,8 | **164,5** | 152,5 | 143,3 |
| Pe | 30,5 | 32,8 | 37,9 | 44,7 | 54,1 | 59,8 | 66,2 | 73,2 | 31,5 | 33,8 | 38,8 | 45,7 | 55,2 | 61,0 | 67,4 | 74,1 | 32,1 | 34,4 | 39,4 | 46,2 | 55,7 | **61,5** | 67,9 | 74,5 |
| EER | 6,72 | 6,21 | 5,08 | 3,96 | 2,94 | 2,49 | 2,09 | 1,77 | 6,87 | 6,37 | 5,30 | 4,14 | 3,08 | 2,62 | 2,20 | 1,88 | 6,93 | 6,45 | 5,37 | 4,21 | 3,14 | **2,68** | 2,25 | 1,92 |
| Qu | 38963 | 36885 | 34790 | 31987 | 28686 | 26861 | 24930 | 23321 | 41191 | 39014 | 35571 | 32709 | 29360 | 27517 | 25568 | 23988 | 42328 | 40102 | 36564 | 33624 | 30196 | **28323** | 26320 | 24732 |
| ΔP | 125 | 102 | 91 | 77 | 62 | 54 | 46 | 41 | 139 | 114 | 91 | 77 | 62 | 54 | 47 | 41 | 147 | 120 | 96 | 81 | 65 | **58** | 50 | 44 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 228,7 | 227,7 | 216,9 | 199,7 | 179,6 | 168,5 | 156,8 | - | - | 240,0 | 228,5 | 210,4 | 189,4 | 177,9 | 165,7 | - | - | - | 240,3 | 221,3 | 199,4 | 187,5 | 174,8 | - |
| Pe | 32,7 | 34,9 | 39,9 | 46,8 | 56,2 | 62,0 | 68,4 | - | - | 36,1 | 41,0 | 47,9 | 57,3 | 63,1 | 69,4 | - | - | - | 42,2 | 49,1 | 58,5 | 64,2 | 70,6 | - |
| EER | 7,00 | 6,52 | 5,44 | 4,27 | 3,19 | 2,72 | 2,29 | - | - | 6,65 | 5,57 | 4,39 | 3,30 | 2,82 | 2,39 | - | - | - | 5,69 | 4,51 | 3,41 | 2,92 | 2,48 | - |
| Qu | 43481 | 41202 | 37571 | 34553 | 31043 | 29117 | 27085 | - | - | 43447 | 39628 | 36450 | 32775 | 30766 | 28648 | - | - | - | 41740 | 38399 | 34556 | 32461 | 30256 | - |
| ΔP | 155 | 127 | 101 | 86 | 69 | 61 | 53 | - | - | 140 | 113 | 95 | 77 | 68 | 59 | - | - | - | 125 | 106 | 86 | 76 | 66 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | 252,4 | 232,5 | 209,7 | 197,3 | 184,2 | - | - | - | - | 244,0 | 220,2 | 207,3 | 193,7 | - | - | - | - | - | 230,9 | 217,5 | 203,5 | - |
| Pe | - | - | 43,5 | 50,3 | 59,7 | 65,4 | 71,8 | - | - | - | - | 51,6 | 61,0 | 66,7 | 73,0 | - | - | - | - | - | 62,4 | 68,1 | 74,4 | - |
| EER | - | - | 5,80 | 4,62 | 3,51 | 3,02 | 2,57 | - | - | - | - | 4,72 | 3,61 | 3,11 | 2,65 | - | - | - | - | - | 3,70 | 3,20 | 2,74 | - |
| Qu | - | - | 43907 | 40399 | 36385 | 34202 | 31909 | - | - | - | - | 42450 | 38261 | 35989 | 33605 | - | - | - | - | - | 40183 | 37820 | 35344 | - |
| ΔP | - | - | 138 | 117 | 95 | 84 | 73 | - | - | - | - | 129 | 105 | 93 | 81 | - | - | - | - | - | 116 | 103 | 90 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve O valve X | double valve Y

## OPERATION IN COOLING MODE - VERSION L

■ = DCPX standard

*TWu* -8 °C | *TWu* 4 °C | *TWu* 18 °C

### 0752 L

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | 29 | 0 | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 158,6 | 154,4 | 146,6 | 135,2 | 120,8 | 0,0 | - | - | 169,4 | 165,1 | 156,9 | 144,5 | 129,1 | - | - | - | 180,3 | 176,3 | 167,5 | 154,1 | 137,7 | 128,3 | - | - |
| Pe | 28,9 | 31,9 | 37,9 | 46,0 | 57,1 | 0,0 | - | - | 29,7 | 32,7 | 38,7 | 46,8 | 58,0 | - | - | - | 30,6 | 33,5 | 39,5 | 47,7 | 58,9 | 65,8 | - | - |
| EER | 5,49 | 4,84 | 3,87 | 2,94 | 2,11 | 0,00 | - | - | 5,71 | 5,05 | 4,06 | 3,09 | 2,23 | - | - | - | 5,90 | 5,26 | 4,24 | 3,23 | 2,34 | 1,95 | - | - |
| Qu | 30461 | 29633 | 28135 | 25926 | 23144 | 0 | - | - | 32283 | 31341 | 29763 | 27390 | 24449 | - | - | - | 34338 | 33118 | 31436 | 28900 | 25800 | 24038 | - | - |
| ΔP | 80 | 76 | 69 | 58 | 46 | 0 | - | - | 88 | 82 | 74 | 63 | 50 | - | - | - | 99 | 89 | 80 | 68 | 54 | 47 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 191,5 | 188,0 | 178,4 | 164,0 | 146,6 | 136,7 | 126,1 | - | 203,0 | 200,1 | 189,6 | 174,2 | 155,9 | 145,5 | 134,3 | 125,6 | 214,9 | 212,8 | 201,4 | 185,0 | 165,6 | 154,7 | 143,0 | 134,2 |
| Pe | 31,5 | 34,5 | 40,5 | 48,6 | 60,0 | 66,8 | 74,4 | - | 32,5 | 35,5 | 41,5 | 49,7 | 61,0 | 67,9 | 75,6 | 83,5 | 33,6 | 36,5 | 42,5 | 50,8 | 62,2 | 69,1 | 76,8 | 84,5 |
| EER | 6,07 | 5,45 | 4,41 | 3,37 | 2,44 | 2,05 | 1,69 | - | 6,24 | 5,64 | 4,57 | 3,51 | 2,55 | 2,14 | 1,78 | 1,50 | 6,39 | 5,83 | 4,73 | 3,64 | 2,66 | 2,24 | 1,86 | 1,59 |
| Qu | 36465 | 34965 | 33155 | 30457 | 27198 | 25359 | 23381 | - | 38661 | 36879 | 34923 | 32063 | 28647 | 26730 | 24675 | 23066 | 40924 | 38802 | 36688 | 33669 | 30100 | 28108 | 25978 | 24363 |
| ΔP | 111 | 97 | 87 | 74 | 59 | 51 | 43 | - | 124 | 105 | 95 | 80 | 64 | 55 | 47 | 41 | 138 | 114 | 102 | 86 | 68 | 60 | 51 | 45 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 227,1 | 225,7 | 213,2 | 195,8 | 175,4 | 164,0 | 151,9 | 142,9 | 239,6 | 238,1 | 227,2 | 208,7 | 187,0 | 175,0 | 162,2 | 153,1 | 245,9 | 244,5 | 233,1 | 214,1 | 192,0 | **180,5** | 166,7 | 157,6 |
| Pe | 34,8 | 37,6 | 43,7 | 52,0 | 63,5 | 70,4 | 78,1 | 85,6 | 36,1 | 38,8 | 44,8 | 53,3 | 64,8 | 71,8 | 79,6 | 86,8 | 36,8 | 39,5 | 45,5 | 53,9 | 65,5 | **72,5** | 80,3 | 87,4 |
| EER | 6,52 | 6,00 | 4,88 | 3,77 | 2,76 | 2,33 | 1,94 | 1,67 | 6,64 | 6,13 | 5,07 | 3,92 | 2,88 | 2,44 | 2,04 | 1,76 | 6,69 | 6,19 | 5,12 | 3,97 | 2,93 | **2,49** | 2,08 | 1,80 |
| Qu | 43252 | 40856 | 38567 | 35387 | 31657 | 29586 | 27376 | 25756 | 45639 | 43136 | 39340 | 36092 | 32312 | 30223 | 28001 | 26424 | 46855 | 44297 | 40388 | 37053 | 33187 | **31067** | 28788 | 27207 |
| ΔP | 153 | 124 | 110 | 93 | 74 | 65 | 56 | 49 | 169 | 138 | 110 | 93 | 74 | 65 | 56 | 50 | 178 | 145 | 116 | 98 | 78 | **69** | 59 | 53 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 252,4 | 250,9 | 239,0 | 219,5 | 197,0 | 184,5 | 171,3 | - | - | 263,9 | 251,1 | 230,7 | 207,2 | 194,2 | 180,5 | - | - | - | 263,4 | 242,1 | 217,6 | 204,2 | 190,0 | - |
| Pe | 37,4 | 40,1 | 46,2 | 54,6 | 66,2 | 73,1 | 80,9 | - | - | 41,5 | 47,5 | 56,0 | 67,6 | 74,6 | 82,4 | - | - | - | 49,0 | 57,5 | 69,1 | 76,1 | 83,9 | - |
| EER | 6,74 | 6,25 | 5,18 | 4,02 | 2,98 | 2,52 | 2,12 | - | - | 6,35 | 5,28 | 4,12 | 3,07 | 2,60 | 2,19 | - | - | - | 5,37 | 4,21 | 3,15 | 2,69 | 2,27 | - |
| Qu | 48085 | 45472 | 41449 | 38027 | 34074 | 31897 | 29588 | - | - | 47860 | 43609 | 40013 | 35885 | 33621 | 31225 | - | - | - | 45819 | 42049 | 37746 | 35395 | 32910 | - |
| ΔP | 187 | 153 | 122 | 103 | 83 | 72 | 62 | - | - | 169 | 135 | 114 | 92 | 80 | 69 | - | - | - | 149 | 126 | 101 | 89 | 77 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 275,9 | 253,7 | 228,3 | 214,5 | 199,8 | - | - | - | - | 265,6 | 239,3 | 224,9 | 209,8 | - | - | - | - | 277,7 | 250,5 | 235,7 | 220,1 | - |
| Pe | - | - | 50,6 | 59,0 | 70,6 | 77,6 | 85,4 | - | - | - | - | 60,7 | 72,3 | 79,3 | 87,1 | - | - | - | - | 62,4 | 74,0 | 81,0 | 88,8 | - |
| EER | - | - | 5,45 | 4,30 | 3,23 | 2,76 | 2,34 | - | - | - | - | 4,38 | 3,31 | 2,84 | 2,41 | - | - | - | - | 4,45 | 3,38 | 2,91 | 2,48 | - |
| Qu | - | - | 48079 | 44134 | 39656 | 37218 | 34646 | - | - | - | - | 46270 | 41617 | 39090 | 36430 | - | - | - | - | 48456 | 43627 | 41013 | 38265 | - |
| ΔP | - | - | 164 | 138 | 112 | 98 | 85 | - | - | - | - | 152 | 123 | 109 | 94 | - | - | - | - | 167 | 135 | 120 | 104 | - |

### 0604 L

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | - | - | - |
| Pc | 103,4 | 99,4 | 92,3 | 83,5 | - | - | - | - | 110,3 | 106,3 | 99,0 | 89,6 | 78,2 | - | - | - | 117,2 | 113,5 | 105,9 | 95,8 | 83,8 | - | - | - |
| Pe | 18,4 | 20,6 | 25,2 | 30,6 | - | - | - | - | 18,9 | 21,1 | 25,6 | 31,2 | 38,7 | - | - | - | 19,4 | 21,6 | 26,1 | 31,8 | 39,4 | - | - | - |
| EER | 5,61 | 4,82 | 3,67 | 2,73 | - | - | - | - | 5,84 | 5,04 | 3,86 | 2,87 | 2,02 | - | - | - | 6,05 | 5,26 | 4,05 | 3,02 | 2,13 | - | - | - |
| Qu | 19824 | 19065 | 17696 | 15999 | - | - | - | - | 20980 | 20155 | 18757 | 16958 | 14794 | - | - | - | 22284 | 21287 | 19844 | 17943 | 15682 | - | - | - |
| ΔP | 52 | 48 | 42 | 34 | - | - | - | - | 57 | 52 | 45 | 37 | 28 | - | - | - | 64 | 57 | 49 | 40 | 31 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | - | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 124,4 | 121,0 | 112,9 | 102,2 | 89,6 | 82,5 | - | - | 131,8 | 128,7 | 120,2 | 108,8 | 95,5 | 88,1 | 84,0 | 80,9 | 139,3 | 136,8 | 127,8 | 115,8 | 101,8 | 94,1 | 90,0 | 86,7 |
| Pe | 19,9 | 22,1 | 26,7 | 32,4 | 40,0 | 44,6 | - | - | 20,5 | 22,7 | 27,3 | 33,0 | 40,8 | 45,4 | 48,9 | 51,1 | 21,1 | 23,3 | 27,9 | 33,7 | 41,6 | 46,2 | 49,6 | 51,8 |
| EER | 6,25 | 5,47 | 4,23 | 3,16 | 2,24 | 1,85 | - | - | 6,44 | 5,68 | 4,41 | 3,30 | 2,34 | 1,94 | 1,72 | 1,58 | 6,60 | 5,88 | 4,58 | 3,43 | 2,45 | 2,04 | 1,82 | 1,68 |
| Qu | 23632 | 22461 | 20957 | 18956 | 16596 | 15281 | - | - | 25023 | 23676 | 22100 | 19999 | 17540 | 16177 | 15413 | 14841 | 26454 | 24895 | 23238 | 21039 | 18486 | 17076 | 16336 | 15738 |
| ΔP | 71 | 62 | 54 | 44 | 34 | 28 | - | - | 80 | 67 | 58 | 48 | 37 | 31 | 28 | 26 | 88 | 72 | 63 | 51 | 40 | 34 | 31 | 29 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 147,1 | 145,1 | 135,5 | 122,8 | 108,2 | 100,1 | 96,2 | 92,7 | 155,1 | 153,1 | 144,4 | 131,0 | 115,6 | 107,1 | 103,3 | 99,6 | 159,1 | 157,1 | 148,2 | 134,5 | 118,8 | **110,4** | 106,4 | 102,7 |
| Pe | 21,8 | 23,9 | 28,5 | 34,5 | 42,4 | 47,1 | 50,2 | 52,4 | 22,5 | 24,6 | 29,2 | 35,3 | 43,3 | 48,0 | 51,0 | 53,2 | 22,9 | 25,0 | 29,6 | 35,6 | 43,7 | **48,4** | 51,3 | 53,5 |
| EER | 6,75 | 6,06 | 4,75 | 3,56 | 2,55 | 2,13 | 1,92 | 1,77 | 6,88 | 6,21 | 4,94 | 3,72 | 2,67 | 2,23 | 2,03 | 1,87 | 6,94 | 6,28 | 5,01 | 3,77 | 2,72 | **2,28** | 2,07 | 1,92 |
| Qu | 27926 | 26197 | 24447 | 22147 | 19493 | 18034 | 17319 | 16695 | 29433 | 27640 | 24952 | 22619 | 19943 | 18478 | 17810 | 17178 | 30202 | 28377 | 25624 | 23235 | 20505 | **19020** | 18357 | 17711 |
| ΔP | 98 | 78 | 68 | 56 | 43 | 37 | 34 | 32 | 108 | 87 | 68 | 56 | 43 | 37 | 35 | 32 | 114 | 92 | 72 | 59 | 46 | **40** | 37 | 34 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 163,2 | 161,2 | 152,1 | 138,0 | 122,0 | 113,3 | 109,6 | - | - | 169,5 | 159,9 | 145,2 | 128,6 | 119,5 | 116,0 | - | - | - | 167,8 | 152,6 | 135,3 | 126,0 | 122,6 | - |
| Pe | 23,3 | 25,4 | 29,9 | 36,0 | 44,1 | 48,9 | 51,6 | - | - | 26,2 | 30,7 | 36,8 | 45,0 | 49,8 | 52,3 | - | - | - | 31,5 | 37,7 | 45,9 | 50,7 | 53,0 | - |
| EER | 7,00 | 6,35 | 5,08 | 3,83 | 2,77 | 2,32 | 2,12 | - | - | 6,47 | 5,20 | 3,94 | 2,86 | 2,40 | 2,22 | - | - | - | 5,32 | 4,05 | 2,95 | 2,48 | 2,31 | - |
| Qu | 30978 | 29120 | 26303 | 23860 | 21074 | 19553 | 18912 | - | - | 30632 | 27684 | 25130 | 22234 | 20657 | 20046 | - | - | - | 29095 | 26431 | 23423 | 21791 | 21213 | - |
| ΔP | 120 | 96 | 76 | 62 | 49 | 42 | 39 | - | - | 106 | 84 | 69 | 54 | 47 | 44 | - | - | - | 93 | 76 | 60 | 52 | 49 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - | - |
| Pc | - | - | 175,9 | 160,1 | 142,2 | 132,5 | - | - | - | - | - | 167,7 | 149,3 | 139,3 | - | - | - | - | - | 175,5 | 156,5 | 146,2 | - | - |
| Pe | - | - | 32,4 | 38,6 | 46,8 | 51,7 | - | - | - | - | - | 39,6 | 47,8 | 52,7 | - | - | - | - | - | 40,6 | 48,8 | 53,8 | - | - |
| EER | - | - | 5,43 | 4,15 | 3,04 | 2,56 | - | - | - | - | - | 4,24 | 3,12 | 2,64 | - | - | - | - | - | 4,33 | 3,20 | 2,72 | - | - |
| Qu | - | - | 30536 | 27761 | 24643 | 22955 | - | - | - | - | - | 29122 | 25892 | 24149 | - | - | - | - | - | 30512 | 27172 | 25373 | - | - |
| ΔP | - | - | 102 | 84 | 66 | 58 | - | - | - | - | - | 93 | 73 | 64 | - | - | - | - | - | 102 | 81 | 70 | - | - |

**Data 14511:2018**

| | |
|---|---|
| **TA b.s.** | External air temperature with dry bulb (°C) |
| **TWu** | Temperature of System side Water Produced (°C) |
| **Glycol** | Suggested ethylene glycol percentage (%) |
| **Pc** | Cooling capacity [kW] |
| **Pe** | Input power (kW) |
| **Qu** | System side Water flow rate [l/h] |
| **ΔP** | Pressure drop to the exchanger (kPa) |
| - | Conditions outside the operating range |

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve O | valve X | double valve Y

## OPERATION IN COOLING MODE - VERSION L

■ = DCPX standard

### 0654 L

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | - | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 114,9 | 110,2 | 102,8 | 92,6 | - | - | - | - | 123,7 | 119,0 | 111,0 | 100,0 | 87,0 | - | - | - | 132,6 | 128,1 | 119,5 | 107,6 | 93,8 | 86,1 | - | - |
| Pe | 21,4 | 23,5 | 28,3 | 34,6 | - | - | - | - | 22,0 | 24,1 | 28,9 | 35,2 | 43,3 | - | - | - | 22,6 | 24,6 | 29,4 | 35,9 | 44,1 | 48,9 | - | - |
| EER | 5,36 | 4,69 | 3,63 | 2,67 | - | - | - | - | 5,63 | 4,95 | 3,85 | 2,84 | 2,01 | - | - | - | 5,87 | 5,20 | 4,06 | 3,00 | 2,13 | 1,76 | - | - |
| Qu | 22020 | 21130 | 19687 | 17723 | - | - | - | - | 23519 | 22539 | 21022 | 18918 | 16450 | - | - | - | 25196 | 24007 | 22388 | 20145 | 17542 | 16104 | - | - |
| ΔP | 49 | 46 | 40 | 32 | - | - | - | - | 55 | 50 | 44 | 35 | 27 | - | - | - | 63 | 55 | 48 | 39 | 29 | 25 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 141,8 | 137,6 | 128,2 | 115,5 | 100,8 | 92,7 | 84,1 | - | 151,3 | 147,4 | 137,2 | 123,6 | 108,0 | 99,5 | 90,5 | 88,1 | 161,1 | 157,7 | 146,6 | 132,1 | 115,7 | 106,7 | 97,2 | 95,0 |
| Pe | 23,2 | 25,3 | 30,0 | 36,5 | 44,9 | 49,8 | 55,3 | - | 23,9 | 26,0 | 30,7 | 37,2 | 45,7 | 50,7 | 56,3 | 58,9 | 24,7 | 26,7 | 31,4 | 38,0 | 46,6 | 51,7 | 57,3 | 59,7 |
| EER | 6,11 | 5,44 | 4,27 | 3,16 | 2,25 | 1,86 | 1,52 | - | 6,32 | 5,68 | 4,47 | 3,32 | 2,36 | 1,96 | 1,61 | 1,50 | 6,51 | 5,90 | 4,67 | 3,48 | 2,48 | 2,07 | 1,70 | 1,59 |
| Qu | 26934 | 25530 | 23788 | 21407 | 18667 | 17163 | 15569 | - | 28730 | 27106 | 25223 | 22704 | 19828 | 18257 | 16596 | 16148 | 30579 | 28691 | 26655 | 24002 | 20994 | 19358 | 17633 | 17233 |
| ΔP | 71 | 61 | 53 | 43 | 33 | 28 | 23 | - | 80 | 67 | 58 | 47 | 36 | 30 | 25 | 24 | 90 | 73 | 63 | 51 | 39 | 33 | 28 | 26 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 171,1 | 168,2 | 156,1 | 140,8 | 123,4 | 114,0 | 104,1 | 102,2 | 181,3 | 178,4 | 167,2 | 150,8 | 132,4 | 122,5 | 112,0 | 110,4 | 186,5 | 183,6 | 171,9 | 155,1 | 136,3 | **126,4** | 115,5 | 114,1 |
| Pe | 25,6 | 27,6 | 32,1 | 38,8 | 47,5 | 52,6 | 58,4 | 60,5 | 26,6 | 28,5 | 33,0 | 39,7 | 48,5 | 53,7 | 59,6 | 61,5 | 27,1 | 29,0 | 33,4 | 40,1 | 48,9 | **54,2** | 60,1 | 61,9 |
| EER | 6,67 | 6,10 | 4,86 | 3,63 | 2,60 | 2,17 | 1,78 | 1,69 | 6,82 | 6,26 | 5,07 | 3,80 | 2,73 | 2,28 | 1,88 | 1,80 | 6,88 | 6,33 | 5,15 | 3,87 | 2,79 | **2,33** | 1,92 | 1,84 |
| Qu | 32477 | 30373 | 28171 | 25378 | 22234 | 20530 | 18737 | 18391 | 34419 | 32223 | 28873 | 26026 | 22838 | 21117 | 19309 | 19033 | 35407 | 33163 | 29709 | 26788 | 23525 | **21776** | 19922 | 19678 |
| ΔP | 102 | 81 | 69 | 56 | 43 | 37 | 31 | 30 | 114 | 90 | 70 | 57 | 44 | 37 | 31 | 30 | 120 | 96 | 74 | 60 | 46 | **40** | 33 | 32 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 188,8 | 176,7 | 159,5 | 140,3 | 129,9 | 119,1 | - | - | - | 186,4 | 168,4 | 148,3 | 137,6 | 126,3 | - | - | - | 196,2 | 177,4 | 156,6 | 145,4 | 133,8 | - |
| Pe | - | 29,5 | 33,9 | 40,6 | 49,4 | 54,7 | 60,7 | - | - | - | 34,9 | 41,5 | 50,4 | 55,8 | 61,8 | - | - | - | 36,0 | 42,6 | 51,5 | 56,9 | 63,0 | - |
| EER | - | 6,40 | 5,22 | 3,93 | 2,84 | 2,37 | 1,96 | - | - | - | 5,34 | 4,06 | 2,94 | 2,47 | 2,04 | - | - | - | 5,46 | 4,17 | 3,04 | 2,56 | 2,12 | - |
| Qu | - | 34113 | 30554 | 27559 | 24222 | 22426 | 20544 | - | - | - | 32274 | 29129 | 25644 | 23773 | 21816 | - | - | - | 34032 | 30738 | 27103 | 25157 | 23126 | - |
| ΔP | - | 101 | 78 | 64 | 49 | 42 | 35 | - | - | - | 87 | 71 | 55 | 47 | 40 | - | - | - | 97 | 79 | 61 | 53 | 45 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 186,7 | 165,1 | 153,5 | 141,4 | - | - | - | - | 196,2 | 173,7 | 161,8 | 149,3 | - | - | - | - | - | 182,6 | 170,2 | 157,3 | - |
| Pe | - | - | - | 43,7 | 52,6 | 58,1 | 64,2 | - | - | - | - | 45,0 | 53,9 | 59,3 | 65,5 | - | - | - | - | - | 55,2 | 60,7 | 66,9 | - |
| EER | - | - | - | 4,27 | 3,14 | 2,64 | 2,20 | - | - | - | - | 4,36 | 3,23 | 2,73 | 2,28 | - | - | - | - | - | 3,31 | 2,81 | 2,35 | - |
| Qu | - | - | - | 32385 | 28601 | 26580 | 24474 | - | - | - | - | 34070 | 30136 | 28041 | 25860 | - | - | - | - | - | 31710 | 29539 | 27283 | - |
| ΔP | - | - | - | 88 | 68 | 59 | 50 | - | - | - | - | 97 | 76 | 66 | 56 | - | - | - | - | - | 84 | 73 | 62 | - |

### 0704 L

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | 29 | - | - | - | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 134,8 | 130,4 | 122,5 | 111,1 | 96,9 | - | - | - | 145,0 | 140,6 | 131,9 | 119,7 | 104,9 | 96,5 | - | - | 155,2 | 151,2 | 141,7 | 128,7 | 113,2 | 104,5 | 95,1 | - |
| Pe | 24,5 | 27,3 | 32,5 | 39,1 | 48,0 | - | - | - | 24,9 | 27,7 | 33,0 | 39,7 | 48,6 | 54,0 | - | - | 25,4 | 28,2 | 33,5 | 40,2 | 49,3 | 54,6 | 60,6 | - |
| EER | 5,51 | 4,77 | 3,76 | 2,84 | 2,02 | - | - | - | 5,82 | 5,07 | 4,00 | 3,02 | 2,16 | 1,79 | - | - | 6,12 | 5,36 | 4,23 | 3,20 | 2,30 | 1,91 | 1,57 | - |
| Qu | 25872 | 25023 | 23492 | 21286 | 18561 | - | - | - | 27604 | 26664 | 25002 | 22685 | 19865 | 18266 | - | - | 29543 | 28370 | 26571 | 24133 | 21210 | 19564 | 17794 | - |
| ΔP | 69 | 65 | 57 | 47 | 36 | - | - | - | 77 | 71 | 62 | 51 | 39 | 33 | - | - | 87 | 78 | 69 | 57 | 44 | 37 | 31 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 165,8 | 162,2 | 151,8 | 138,1 | 121,8 | 112,7 | 103,0 | - | 176,8 | 173,6 | 162,4 | 147,9 | 130,8 | 121,3 | 111,1 | 96,9 | 188,3 | 185,7 | 173,6 | 158,1 | 140,1 | 130,2 | 119,7 | 105,1 |
| Pe | 25,9 | 28,8 | 34,0 | 40,8 | 49,9 | 55,3 | 61,3 | - | 26,5 | 29,3 | 34,6 | 41,5 | 50,7 | 56,1 | 62,1 | 72,3 | 27,1 | 29,9 | 35,3 | 42,2 | 51,4 | 56,9 | 63,0 | 73,0 |
| EER | 6,40 | 5,64 | 4,46 | 3,38 | 2,44 | 2,04 | 1,68 | - | 6,67 | 5,92 | 4,69 | 3,57 | 2,58 | 2,16 | 1,79 | 1,34 | 6,94 | 6,21 | 4,92 | 3,75 | 2,72 | 2,29 | 1,90 | 1,44 |
| Qu | 31560 | 30142 | 28203 | 25634 | 22596 | 20899 | 19081 | - | 33656 | 31985 | 29898 | 27190 | 24026 | 22273 | 20402 | 17779 | 35830 | 33851 | 31611 | 28757 | 25465 | 23651 | 21726 | 19073 |
| ΔP | 99 | 86 | 75 | 62 | 48 | 41 | 34 | - | 112 | 95 | 83 | 68 | 53 | 46 | 39 | 29 | 126 | 103 | 90 | 75 | 58 | 50 | 43 | 33 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 200,1 | 198,1 | 185,0 | 168,5 | 149,6 | 139,3 | 128,3 | 113,5 | 212,3 | 210,3 | 198,4 | 180,7 | 160,7 | 149,8 | 138,3 | 123,0 | 218,6 | 216,5 | 204,2 | 186,0 | 165,5 | **154,9** | 142,6 | 127,3 |
| Pe | 27,8 | 30,6 | 36,0 | 43,0 | 52,2 | 57,8 | 63,9 | 73,8 | 28,6 | 31,3 | 36,7 | 43,8 | 53,1 | 58,7 | 64,9 | 74,7 | 29,0 | 31,7 | 37,1 | 44,2 | 53,6 | **59,2** | 65,4 | 75,0 |
| EER | 7,19 | 6,48 | 5,14 | 3,92 | 2,86 | 2,41 | 2,01 | 1,54 | 7,42 | 6,71 | 5,40 | 4,13 | 3,02 | 2,55 | 2,13 | 1,65 | 7,53 | 6,83 | 5,50 | 4,21 | 3,09 | **2,62** | 2,18 | 1,70 |
| Qu | 38086 | 35850 | 33448 | 30433 | 26994 | 25114 | 23124 | 20438 | 40423 | 38072 | 34340 | 31247 | 27755 | 25858 | 23858 | 21216 | 41624 | 39210 | 35370 | 32184 | 28604 | **26677** | 24626 | 21963 |
| ΔP | 141 | 114 | 99 | 82 | 64 | 56 | 47 | 37 | 159 | 128 | 100 | 83 | 65 | 57 | 48 | 38 | 168 | 136 | 106 | 88 | 69 | **60** | 51 | 41 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 222,8 | 210,1 | 191,4 | 170,4 | 159,0 | 147,1 | - | - | - | 222,1 | 202,4 | 180,4 | 168,5 | 156,1 | - | - | - | 234,5 | 213,6 | 190,6 | 178,2 | 165,3 | - |
| Pe | - | 32,1 | 37,6 | 44,6 | 54,0 | 59,6 | 65,8 | - | - | - | 38,5 | 45,5 | 54,9 | 60,5 | 66,8 | - | - | - | 39,4 | 46,5 | 55,9 | 61,5 | 67,7 | - |
| EER | - | 6,94 | 5,59 | 4,29 | 3,15 | 2,67 | 2,23 | - | - | - | 5,78 | 4,44 | 3,28 | 2,78 | 2,34 | - | - | - | 5,95 | 4,59 | 3,41 | 2,90 | 2,44 | - |
| Qu | - | 40369 | 36418 | 33135 | 29466 | 27485 | 25403 | - | - | - | 38565 | 35084 | 31228 | 29158 | 26990 | - | - | - | 40782 | 37094 | 33042 | 30877 | 28619 | - |
| ΔP | - | 144 | 113 | 93 | 74 | 64 | 55 | - | - | - | 126 | 104 | 83 | 72 | 62 | - | - | - | 141 | 117 | 93 | 81 | 69 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 225,2 | 201,1 | 188,2 | 174,7 | - | - | - | - | 237,1 | 211,8 | 198,4 | 184,4 | - | - | - | - | - | 222,8 | 208,8 | 194,3 | - |
| Pe | - | - | - | 47,5 | 57,0 | 62,6 | 68,8 | - | - | - | - | 48,6 | 58,1 | 63,7 | 69,9 | - | - | - | - | - | 59,2 | 64,8 | 71,1 | - |
| EER | - | - | - | 4,74 | 3,53 | 3,01 | 2,54 | - | - | - | - | 4,88 | 3,65 | 3,11 | 2,64 | - | - | - | - | - | 3,76 | 3,22 | 2,73 | - |
| Qu | - | - | - | 39165 | 34907 | 32644 | 30291 | - | - | - | - | 41299 | 36826 | 34459 | 32005 | - | - | - | - | - | 38798 | 36323 | 33764 | - |
| ΔP | - | - | - | 130 | 103 | 90 | 78 | - | - | - | - | 145 | 115 | 101 | 87 | - | - | - | - | - | 128 | 112 | 97 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve o valve X | double valve Y

TWu -8 °C | TWu 4 °C | TWu 18 °C

## OPERATION IN COOLING MODE - VERSION L

■ = DCPX standard

### 0754 L

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -8 | | | | | | | | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 29 | 29 | 29 | 29 | 29 | - | - | - | 27 | 26 | 26 | 26 | 26 | - | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 151,2 | 146,3 | 137,4 | 124,6 | 109,2 | - | - | - | 162,5 | 157,6 | 147,9 | 134,3 | 118,1 | - | - | - | 173,9 | 169,5 | 159,0 | 144,4 | 127,3 | 117,9 | - | - |
| Pe | 26,8 | 30,2 | 36,4 | 43,8 | 53,6 | - | - | - | 27,5 | 30,8 | 37,1 | 44,6 | 54,5 | - | - | - | 28,2 | 31,6 | 37,8 | 45,4 | 55,4 | 61,3 | - | - |
| EER | 5,65 | 4,85 | 3,77 | 2,84 | 2,04 | - | - | - | 5,92 | 5,11 | 3,99 | 3,01 | 2,17 | - | - | - | 6,17 | 5,37 | 4,21 | 3,18 | 2,30 | 1,92 | - | - |
| Qu | 28988 | 28048 | 26331 | 23863 | 20911 | - | - | - | 30915 | 29875 | 28032 | 25431 | 22348 | - | - | - | 33085 | 31782 | 29801 | 27060 | 23839 | 22064 | - | - |
| ΔP | 63 | 59 | 52 | 42 | 33 | - | - | - | 69 | 64 | 57 | 47 | 36 | - | - | - | 79 | 71 | 62 | 51 | 40 | 34 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | | 2 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| Pc | 185,9 | 181,8 | 170,5 | 155,0 | 136,9 | 127,0 | 116,5 | - | 198,2 | 194,7 | 182,4 | 166,0 | 146,9 | 136,5 | 125,5 | 116,2 | 211,1 | 208,3 | 195,0 | 177,6 | 157,4 | 146,4 | 134,9 | 125,3 |
| Pe | 29,0 | 32,3 | 38,6 | 46,3 | 56,4 | 62,3 | 68,8 | - | 29,9 | 33,2 | 39,5 | 47,2 | 57,4 | 63,4 | 70,0 | 77,3 | 30,8 | 34,1 | 40,4 | 48,3 | 58,5 | 64,6 | 71,2 | 78,4 |
| EER | 6,41 | 5,62 | 4,42 | 3,35 | 2,43 | 2,04 | 1,69 | - | 6,64 | 5,87 | 4,62 | 3,52 | 2,56 | 2,15 | 1,79 | 1,50 | 6,86 | 6,11 | 4,82 | 3,68 | 2,69 | 2,27 | 1,89 | 1,60 |
| Qu | 35345 | 33771 | 31640 | 28752 | 25383 | 23535 | 21585 | - | 37695 | 35842 | 33549 | 30507 | 26983 | 25057 | 23028 | 21310 | 40130 | 37934 | 35475 | 32275 | 28595 | 26589 | 24481 | 22740 |
| ΔP | 89 | 78 | 68 | 56 | 44 | 38 | 32 | - | 101 | 86 | 75 | 62 | 49 | 42 | 35 | 30 | 114 | 94 | 82 | 68 | 53 | 46 | 39 | 34 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 4 | | | | | | | | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 224,3 | 222,2 | 207,8 | 189,3 | 168,1 | 156,6 | 144,5 | 134,8 | 238,0 | 235,8 | 222,8 | 203,1 | 180,6 | 168,3 | 155,5 | 145,6 | 245,0 | 242,8 | 229,3 | 209,0 | 186,0 | **174,0** | 160,4 | 150,4 |
| Pe | 31,8 | 35,0 | 41,4 | 49,3 | 59,7 | 65,8 | 72,5 | 79,4 | 32,9 | 36,1 | 42,4 | 50,5 | 61,0 | 67,2 | 73,9 | 80,7 | 33,5 | 36,6 | 43,0 | 51,1 | 61,6 | **67,8** | 74,6 | 81,2 |
| EER | 7,06 | 6,34 | 5,02 | 3,84 | 2,82 | 2,38 | 1,99 | 1,70 | 7,24 | 6,53 | 5,25 | 4,02 | 2,96 | 2,51 | 2,10 | 1,80 | 7,32 | 6,63 | 5,33 | 4,09 | 3,02 | **2,57** | 2,15 | 1,85 |
| Qu | 42651 | 40175 | 37534 | 34164 | 30311 | 28219 | 26025 | 24265 | 45254 | 42653 | 38528 | 35080 | 31163 | 29043 | 26823 | 25104 | 46585 | 43920 | 39677 | 36132 | 32115 | **29958** | 27674 | 25950 |
| ΔP | 128 | 103 | 90 | 74 | 59 | 51 | 43 | 38 | 143 | 116 | 91 | 75 | 59 | 52 | 44 | 39 | 152 | 123 | 96 | 80 | 63 | **55** | 47 | 41 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | | 12 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 249,8 | 235,8 | 215,0 | 191,4 | 178,7 | 165,3 | - | - | - | 249,2 | 227,3 | 202,6 | 189,3 | 175,3 | - | - | - | 263,0 | 239,9 | 214,0 | 200,1 | 185,5 | - |
| Pe | - | 37,2 | 43,6 | 51,7 | 62,2 | 68,4 | 75,2 | - | - | - | 44,8 | 52,9 | 63,5 | 69,7 | 76,6 | - | - | - | 46,1 | 54,3 | 64,9 | 71,1 | 78,0 | - |
| EER | - | 6,71 | 5,41 | 4,16 | 3,08 | 2,61 | 2,20 | - | - | - | 5,57 | 4,29 | 3,19 | 2,71 | 2,29 | - | - | - | 5,71 | 4,42 | 3,30 | 2,81 | 2,38 | - |
| Qu | - | 45206 | 40843 | 37199 | 33081 | 30859 | 28537 | - | - | - | 43227 | 39379 | 35052 | 32725 | 30296 | - | - | - | 45679 | 41618 | 37076 | 34639 | 32100 | - |
| ΔP | - | 130 | 102 | 85 | 67 | 58 | 50 | - | - | - | 114 | 95 | 75 | 66 | 56 | - | - | - | 128 | 106 | 84 | 73 | 63 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 14 | | | | | | | | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 252,8 | 225,7 | 211,1 | 196,0 | - | - | - | - | 265,9 | 237,6 | 222,4 | 206,6 | - | - | - | - | - | 249,8 | 233,9 | 217,5 | - |
| Pe | - | - | - | 55,7 | 66,3 | 72,6 | 79,4 | - | - | - | - | 57,1 | 67,8 | 74,1 | 81,0 | - | - | - | - | - | 69,4 | 75,7 | 82,6 | - |
| EER | - | - | - | 4,54 | 3,40 | 2,91 | 2,47 | - | - | - | - | 4,65 | 3,50 | 3,00 | 2,55 | - | - | - | - | - | 3,60 | 3,09 | 2,63 | - |
| Qu | - | - | - | 43916 | 39151 | 36601 | 33948 | - | - | - | - | 46273 | 41276 | 38610 | 35839 | - | - | - | - | - | 43452 | 40664 | 37772 | - |
| ΔP | - | - | - | 118 | 94 | 82 | 71 | - | - | - | - | 131 | 104 | 91 | 79 | - | - | - | - | - | 116 | 101 | 87 | - |

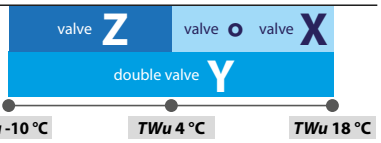
**Data 14511:2018**

| | |
|---|---|
| **TA b.s.** | External air temperature with dry bulb (°C) |
| **TWu** | Temperature of System side Water Produced (°C) |
| **Glycol** | Suggested ethylene glycol percentage (%) |
| **Pc** | Cooling capacity [kW] |
| **Pe** | Input power (kW) |
| **Qu** | System side Water flow rate [l/h] |
| **ΔP** | Pressure drop to the exchanger (kPa) |
| - | Conditions outside the operating range |

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## YIELDS AND ABSORPTION DIFFERENT THAN NOMINAL




### OPERATION IN COOLING MODE - VERSION A

= DCPX accessory

**0502 A**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 73,7 | 72,8 | 70,0 | 64,2 | 57,0 | - | - | - | 79,4 | 78,4 | 75,1 | 69,1 | 61,5 | - | - | - |
| Pe | 13,0 | 15,0 | 18,4 | 21,9 | 26,5 | - | - | - | 13,4 | 15,3 | 18,6 | 22,1 | 26,8 | - | - | - |
| EER | 5,66 | 4,85 | 3,81 | 2,93 | 2,15 | - | - | - | 5,94 | 5,11 | 4,04 | 3,12 | 2,29 | - | - | - |
| Qu | 14223 | 14057 | 13499 | 12394 | 10988 | - | - | - | 15192 | 15007 | 14378 | 13214 | 11750 | - | - | - |
| ΔP | 24 | 23 | 21 | 18 | 14 | - | - | - | 26 | 26 | 23 | 20 | 16 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 85,3 | 84,3 | 80,7 | 74,2 | 66,2 | 61,7 | - | - | 91,4 | 90,5 | 86,4 | 79,6 | 71,1 | 66,4 | 61,6 | - |
| Pe | 13,7 | 15,7 | 18,8 | 22,4 | 27,1 | 29,9 | - | - | 14,0 | 16,0 | 19,1 | 22,7 | 27,4 | 30,2 | 33,3 | - |
| EER | 6,23 | 5,39 | 4,28 | 3,31 | 2,44 | 2,06 | - | - | 6,51 | 5,67 | 4,53 | 3,51 | 2,59 | 2,20 | 1,85 | - |
| Qu | 16201 | 15954 | 15256 | 14034 | 12509 | 11657 | - | - | 17334 | 16944 | 16172 | 14889 | 13299 | 12415 | 11502 | - |
| ΔP | 29 | 28 | 26 | 22 | 17 | 15 | - | - | 33 | 31 | 28 | 24 | 19 | 16 | 14 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 97,6 | 97,0 | 92,5 | 85,2 | 76,3 | 71,4 | 66,3 | - | 104,1 | 103,8 | 98,8 | 91,1 | 81,7 | 76,5 | 71,2 | 64,0 |
| Pe | 14,3 | 16,3 | 19,4 | 23,0 | 27,8 | 30,6 | 33,7 | - | 14,7 | 16,6 | 19,6 | 23,3 | 28,1 | 30,9 | 34,1 | 38,4 |
| EER | 6,81 | 5,97 | 4,78 | 3,71 | 2,75 | 2,33 | 1,97 | - | 7,10 | 6,26 | 5,03 | 3,91 | 2,91 | 2,47 | 2,09 | 1,67 |
| Qu | 18511 | 17976 | 17130 | 15780 | 14123 | 13202 | 12259 | - | 19734 | 19051 | 18128 | 16708 | 14978 | 14022 | 13044 | 11720 |
| ΔP | 37 | 34 | 30 | 26 | 21 | 18 | 16 | - | 42 | 37 | 33 | 28 | 23 | 20 | 17 | 14 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 110,9 | 110,9 | 105,5 | 97,3 | 87,4 | 81,9 | 76,3 | 68,8 | 117,9 | 118,3 | 112,3 | 103,6 | 93,2 | 87,5 | 81,6 | 73,7 |
| Pe | 15,0 | 16,9 | 20,0 | 23,7 | 28,5 | 31,3 | 34,5 | 38,8 | 15,3 | 17,2 | 20,3 | 24,0 | 28,9 | 31,7 | 34,9 | 39,2 |
| EER | 7,40 | 6,57 | 5,29 | 4,11 | 3,07 | 2,61 | 2,21 | 1,77 | 7,70 | 6,88 | 5,54 | 4,32 | 3,23 | 2,76 | 2,34 | 1,88 |
| Qu | 21003 | 20139 | 19141 | 17649 | 15845 | 14850 | 13836 | 12458 | 22316 | 21308 | 20231 | 18659 | 16774 | 15737 | 14683 | 13247 |
| ΔP | 47 | 40 | 36 | 31 | 25 | 22 | 19 | 15 | 53 | 44 | 40 | 34 | 27 | 24 | 21 | 17 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 125,2 | 125,5 | 120,3 | 111,0 | 100,0 | 93,9 | 87,7 | 79,3 | 128,9 | 129,2 | 123,8 | 114,3 | 103,0 | **96,9** | 90,4 | 81,9 |
| Pe | 15,7 | 17,5 | 20,6 | 24,4 | 29,3 | 32,2 | 35,4 | 39,8 | 15,8 | 17,7 | 20,8 | 24,6 | 29,5 | **32,3** | 35,6 | 40,0 |
| EER | 7,99 | 7,16 | 5,83 | 4,55 | 3,41 | 2,92 | 2,48 | 2,00 | 8,14 | 7,30 | 5,95 | 4,65 | 3,49 | **3,00** | 2,54 | 2,05 |
| Qu | 23676 | 22608 | 20752 | 19144 | 17230 | 16180 | 15113 | 13662 | 24373 | 23275 | 21366 | 19713 | 17751 | **16684** | 15585 | 14102 |
| ΔP | 60 | 49 | 40 | 34 | 28 | 24 | 21 | 17 | 63 | 52 | 42 | 36 | 29 | **26** | 23 | 18 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 132,9 | 127,4 | 117,6 | 106,0 | 99,6 | 93,2 | - | - | - | 134,7 | 124,3 | 112,2 | 105,5 | 98,8 | - |
| Pe | - | 17,9 | 21,0 | 24,8 | 29,7 | 32,6 | 35,8 | - | - | - | 21,3 | 25,2 | 30,1 | 33,0 | 36,2 | - |
| EER | - | 7,45 | 6,07 | 4,75 | 3,57 | 3,05 | 2,60 | - | - | - | 6,31 | 4,94 | 3,72 | 3,19 | 2,73 | - |
| Qu | - | 23953 | 21991 | 20292 | 18281 | 17182 | 16064 | - | - | - | 23274 | 21478 | 19367 | 18217 | 17044 | - |
| ΔP | - | 55 | 45 | 38 | 31 | 27 | 24 | - | - | - | 50 | 43 | 35 | 31 | 27 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 142,2 | 131,3 | 118,5 | 111,6 | 104,5 | - | - | - | - | 138,5 | 125,1 | 117,9 | 110,4 | - |
| Pe | - | - | 21,7 | 25,6 | 30,5 | 33,5 | 36,7 | - | - | - | - | 26,0 | 31,0 | 33,9 | 37,1 | - |
| EER | - | - | 6,55 | 5,14 | 3,88 | 3,33 | 2,85 | - | - | - | - | 5,33 | 4,04 | 3,48 | 2,98 | - |
| Qu | - | - | 24601 | 22705 | 20490 | 19285 | 18055 | - | - | - | - | 23971 | 21648 | 20388 | 19095 | - |
| ΔP | - | - | 56 | 48 | 39 | 35 | 30 | - | - | - | - | 53 | 44 | 39 | 34 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 131,9 | 124,3 | 116,5 | - | - | - | - | - | 138,8 | 130,9 | 122,7 | - |
| Pe | - | - | - | - | 31,4 | 34,4 | 37,6 | - | - | - | - | - | 31,9 | 34,9 | 38,1 | - |
| EER | - | - | - | - | 4,19 | 3,62 | 3,10 | - | - | - | - | - | 4,35 | 3,76 | 3,22 | - |
| Qu | - | - | - | - | 22843 | 21525 | 20166 | - | - | - | - | - | 24074 | 22696 | 21267 | - |
| ΔP | - | - | - | - | 49 | 43 | 38 | - | - | - | - | - | 54 | 48 | 42 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN COOLING MODE - VERSION A

= DCPX accessory

valvola Z | valvola O | valvola X | doppia valvola Y

*TWu* -10 °C | *TWu* 4 °C | *TWu* 18 °C

**0552 A**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 0 | 0 | 0 | 0 | 29 | 29 | 29 | 29 | 29 | 0 | 0 | 0 |
| Pc | 81,9 | 80,4 | 76,8 | 70,6 | 0,0 | 0,0 | 0,0 | 0,0 | 87,7 | 86,3 | 82,4 | 75,9 | 67,9 | 0,0 | 0,0 | 0,0 |
| Pe | 14,7 | 16,6 | 20,1 | 23,9 | 0,0 | 0,0 | 0,0 | 0,0 | 15,1 | 16,9 | 20,4 | 24,3 | 29,4 | 0,0 | 0,0 | 0,0 |
| EER | 5,55 | 4,85 | 3,82 | 2,95 | 0,00 | 0,00 | 0,00 | 0,00 | 5,82 | 5,10 | 4,04 | 3,12 | 2,31 | 0,00 | 0,00 | 0,00 |
| Qu | 15808 | 15527 | 14822 | 13635 | 0 | 0 | 0 | 0 | 16801 | 16515 | 15770 | 14522 | 12988 | 0 | 0 | 0 |
| ΔP | 29 | 28 | 26 | 22 | 0 | 0 | 0 | 0 | 32 | 31 | 28 | 24 | 19 | 0 | 0 | 0 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 93,9 | 92,5 | 88,3 | 81,5 | 73,0 | 68,4 | - | - | 100,3 | 99,1 | 94,6 | 87,3 | 78,4 | 73,5 | - | - |
| Pe | 15,4 | 17,3 | 20,7 | 24,7 | 29,8 | 32,8 | - | - | 15,8 | 17,6 | 21,1 | 25,1 | 30,2 | 33,2 | - | - |
| EER | 6,10 | 5,36 | 4,26 | 3,30 | 2,45 | 2,09 | - | - | 6,36 | 5,63 | 4,49 | 3,49 | 2,59 | 2,21 | - | - |
| Qu | 17846 | 17509 | 16717 | 15410 | 13805 | 12921 | - | - | 19032 | 18552 | 17707 | 16335 | 14659 | 13735 | - | - |
| ΔP | 35 | 34 | 31 | 26 | 21 | 18 | - | - | 40 | 37 | 33 | 28 | 23 | 20 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 106,9 | 106,0 | 101,1 | 93,4 | 84,0 | 78,8 | 73,7 | - | 113,8 | 113,2 | 107,9 | 99,7 | 89,8 | 84,3 | 78,9 | 74,1 |
| Pe | 16,1 | 18,0 | 21,4 | 25,5 | 30,7 | 33,7 | 37,0 | - | 16,5 | 18,4 | 21,8 | 25,9 | 31,1 | 34,2 | 37,6 | 40,1 |
| EER | 6,63 | 5,90 | 4,72 | 3,67 | 2,74 | 2,34 | 1,99 | - | 6,89 | 6,16 | 4,95 | 3,85 | 2,88 | 2,47 | 2,10 | 1,85 |
| Qu | 20272 | 19645 | 18739 | 17300 | 15548 | 14583 | 13633 | - | 21566 | 20787 | 19817 | 18307 | 16474 | 15465 | 14475 | 13582 |
| ΔP | 45 | 40 | 36 | 31 | 25 | 22 | 19 | - | 50 | 44 | 40 | 34 | 28 | 24 | 21 | 19 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 120,9 | 120,8 | 115,1 | 106,5 | 96,0 | 90,2 | 84,5 | 79,4 | 128,4 | 128,7 | 122,5 | 113,3 | 102,3 | 96,2 | 90,2 | 84,8 |
| Pe | 16,9 | 18,8 | 22,2 | 26,3 | 31,6 | 34,7 | 38,3 | 40,8 | 17,4 | 19,2 | 22,7 | 26,8 | 32,1 | 35,3 | 38,9 | 41,4 |
| EER | 7,14 | 6,43 | 5,18 | 4,04 | 3,03 | 2,60 | 2,21 | 1,95 | 7,40 | 6,70 | 5,41 | 4,23 | 3,18 | 2,73 | 2,32 | 2,05 |
| Qu | 22913 | 21947 | 20909 | 19325 | 17411 | 16358 | 15324 | 14387 | 24312 | 23196 | 22083 | 20419 | 18417 | 17316 | 16230 | 15249 |
| ΔP | 56 | 48 | 43 | 37 | 30 | 26 | 23 | 20 | 63 | 52 | 47 | 40 | 33 | 29 | 26 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 136,1 | 136,4 | 131,2 | 121,4 | 109,6 | 103,2 | 96,8 | 91,0 | 140,1 | 140,4 | 134,9 | 124,9 | 112,9 | **106,5** | 99,7 | 93,8 |
| Pe | 17,8 | 19,7 | 23,1 | 27,3 | 32,7 | 35,9 | 39,7 | 42,3 | 18,0 | 19,9 | 23,3 | 27,6 | 33,0 | **36,1** | 40,0 | 42,6 |
| EER | 7,65 | 6,94 | 5,67 | 4,44 | 3,35 | 2,88 | 2,44 | 2,15 | 7,76 | 7,06 | 5,78 | 4,53 | 3,42 | **2,95** | 2,49 | 2,20 |
| Qu | 25763 | 24588 | 22636 | 20938 | 18903 | 17785 | 16678 | 15680 | 26507 | 25302 | 23297 | 21553 | 19467 | **18330** | 17184 | 16161 |
| ΔP | 71 | 59 | 48 | 41 | 33 | 29 | 26 | 23 | 75 | 62 | 50 | 43 | 35 | **31** | 27 | 24 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 144,1 | 144,4 | 138,8 | 128,5 | 116,1 | 109,4 | 102,6 | - | - | - | 146,6 | 135,7 | 122,8 | 115,7 | 108,6 | - |
| Pe | 18,3 | 20,1 | 23,6 | 27,8 | 33,2 | 36,4 | 40,3 | - | - | - | 24,1 | 28,3 | 33,8 | 37,0 | 40,9 | - |
| EER | 7,87 | 7,17 | 5,89 | 4,62 | 3,49 | 3,00 | 2,55 | - | - | - | 6,10 | 4,79 | 3,64 | 3,13 | 2,65 | - |
| Qu | 27264 | 26028 | 23970 | 22179 | 20041 | 18868 | 17698 | - | - | - | 25350 | 23462 | 21217 | 19987 | 18750 | - |
| ΔP | 79 | 65 | 53 | 46 | 37 | 33 | 29 | - | - | - | 60 | 51 | 42 | 37 | 33 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 154,7 | 143,2 | 129,7 | 122,3 | 114,8 | - | - | - | - | 151,0 | 136,8 | 129,0 | 121,1 | - |
| Pe | - | - | 24,6 | 28,9 | 34,3 | 37,5 | 41,5 | - | - | - | - | 29,4 | 34,9 | 38,1 | 42,1 | - |
| EER | - | - | 6,30 | 4,96 | 3,78 | 3,26 | 2,76 | - | - | - | - | 5,13 | 3,92 | 3,38 | 2,87 | - |
| Qu | - | - | 26774 | 24786 | 22430 | 21141 | 19834 | - | - | - | - | 26152 | 23681 | 22331 | 20949 | - |
| ΔP | - | - | 67 | 57 | 47 | 42 | 37 | - | - | - | - | 64 | 52 | 46 | 41 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 144,1 | 136,0 | 127,6 | - | - | - | - | - | 151,6 | 143,1 | 134,3 | - |
| Pe | - | - | - | - | 35,5 | 38,7 | 42,7 | - | - | - | - | - | 36,2 | 39,4 | 43,3 | - |
| EER | - | - | - | - | 4,06 | 3,51 | 2,99 | - | - | - | - | - | 4,19 | 3,63 | 3,10 | - |
| Qu | - | - | - | - | 24970 | 23557 | 22096 | - | - | - | - | - | 26297 | 24819 | 23276 | - |
| ΔP | - | - | - | - | 58 | 52 | 45 | - | - | - | - | - | 64 | 57 | 50 | - |

**Data 14511:2018**

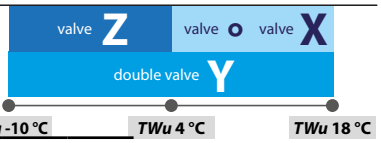
**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN COOLING MODE - VERSION A

= DCPX accessory




**0602 A**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | | -10 | | | | | | | | -8 | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 93,2 | 92,8 | 88,9 | 82,0 | 73,4 | - | - | - | 99,8 | 99,3 | 95,3 | 88,0 | 79,0 | - | - | - |
| Pe | 15,6 | 18,1 | 22,1 | 26,4 | 32,0 | - | - | - | 15,7 | 18,3 | 22,4 | 26,8 | 32,4 | - | - | - |
| EER | 5,99 | 5,13 | 4,02 | 3,11 | 2,30 | - | - | - | 6,35 | 5,41 | 4,25 | 3,29 | 2,44 | - | - | - |
| Qu | 17987 | 17920 | 17162 | 15822 | 14163 | - | - | - | 19115 | 19015 | 18242 | 16838 | 15101 | - | - | - |
| ΔP | 29 | 29 | 26 | 22 | 18 | - | - | - | 32 | 31 | 29 | 25 | 20 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | | -6 | | | | | | | | -4 | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 106,9 | 106,3 | 102,1 | 94,4 | 84,9 | 79,6 | - | - | 114,2 | 113,7 | 109,2 | 101,1 | 91,0 | 85,5 | 79,7 | - |
| Pe | 15,9 | 18,6 | 22,8 | 27,1 | 32,8 | 36,1 | - | - | 16,2 | 19,0 | 23,1 | 27,5 | 33,2 | 36,5 | 40,2 | - |
| EER | 6,71 | 5,70 | 4,49 | 3,48 | 2,59 | 2,21 | - | - | 7,04 | 6,00 | 4,72 | 3,67 | 2,74 | 2,34 | 1,98 | - |
| Qu | 20307 | 20118 | 19319 | 17853 | 16040 | 15041 | - | - | 21662 | 21280 | 20444 | 18911 | 17020 | 15976 | 14896 | - |
| ΔP | 35 | 34 | 31 | 27 | 22 | 19 | - | - | 39 | 37 | 34 | 29 | 24 | 21 | 18 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | | -2 | | | | | | | | 0 | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 121,7 | 121,4 | 116,7 | 108,1 | 97,5 | 91,6 | 85,5 | - | 129,6 | 129,5 | 124,4 | 115,3 | 104,2 | 98,0 | 91,5 | 83,3 |
| Pe | 16,5 | 19,3 | 23,5 | 28,0 | 33,7 | 37,0 | 40,7 | - | 16,9 | 19,7 | 23,9 | 28,4 | 34,2 | 37,5 | 41,2 | 46,3 |
| EER | 7,37 | 6,29 | 4,96 | 3,86 | 2,89 | 2,47 | 2,10 | - | 7,68 | 6,58 | 5,20 | 4,06 | 3,05 | 2,61 | 2,22 | 1,80 |
| Qu | 23086 | 22501 | 21616 | 20016 | 18042 | 16952 | 15819 | - | 24573 | 23781 | 22839 | 21167 | 19108 | 17970 | 16781 | 15258 |
| ΔP | 44 | 40 | 37 | 32 | 26 | 23 | 20 | - | 50 | 44 | 40 | 35 | 28 | 25 | 22 | 18 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | | 2 | | | | | | | | 4 | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 137,9 | 138,1 | 132,6 | 123,0 | 111,3 | 104,8 | 97,9 | 89,1 | 146,5 | 146,9 | 141,0 | 130,9 | 118,6 | 111,7 | 104,5 | 95,2 |
| Pe | 17,3 | 20,1 | 24,4 | 28,9 | 34,7 | 38,1 | 41,8 | 46,9 | 17,7 | 20,5 | 24,8 | 29,4 | 35,2 | 38,6 | 42,3 | 47,5 |
| EER | 7,98 | 6,87 | 5,44 | 4,26 | 3,21 | 2,75 | 2,34 | 1,90 | 8,26 | 7,15 | 5,68 | 4,46 | 3,37 | 2,89 | 2,47 | 2,00 |
| Qu | 26123 | 25082 | 24076 | 22330 | 20187 | 19001 | 17757 | 16156 | 27735 | 26484 | 25404 | 23580 | 21345 | 20107 | 18804 | 17121 |
| ΔP | 56 | 47 | 44 | 38 | 31 | 27 | 24 | 20 | 63 | 52 | 48 | 41 | 34 | 30 | 26 | 22 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | | 6 | | | | | | | | 7 | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 155,4 | 155,6 | 150,8 | 140,1 | 127,0 | 119,8 | 112,1 | 102,2 | 160,0 | 160,1 | 155,1 | 144,1 | 130,7 | **123,6** | 115,5 | 105,4 |
| Pe | 18,3 | 21,0 | 25,3 | 29,9 | 35,8 | 39,3 | 43,0 | 48,2 | 18,6 | 21,3 | 25,5 | 30,2 | 36,1 | **39,5** | 43,3 | 48,5 |
| EER | 8,51 | 7,41 | 5,96 | 4,68 | 3,55 | 3,05 | 2,61 | 2,12 | 8,62 | 7,53 | 6,07 | 4,77 | 3,62 | **3,13** | 2,67 | 2,17 |
| Qu | 29407 | 28048 | 26016 | 24164 | 21900 | 20647 | 19323 | 17609 | 30265 | 28850 | 26764 | 24867 | 22549 | **21276** | 19911 | 18154 |
| ΔP | 70 | 58 | 48 | 41 | 34 | 30 | 26 | 22 | 74 | 61 | 51 | 44 | 36 | **32** | 28 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | | 8 | | | | | | | | 10 | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 164,6 | 159,4 | 148,2 | 134,5 | 126,9 | 118,9 | - | - | - | 168,2 | 156,5 | 142,2 | 134,3 | 125,9 | - |
| Pe | - | 21,5 | 25,8 | 30,4 | 36,4 | 39,8 | 43,6 | - | - | - | 26,3 | 31,0 | 36,9 | 40,4 | 44,1 | - |
| EER | - | 7,65 | 6,18 | 4,87 | 3,70 | 3,19 | 2,73 | - | - | - | 6,40 | 5,05 | 3,85 | 3,32 | 2,85 | - |
| Qu | - | 29666 | 27524 | 25581 | 23210 | 21898 | 20509 | - | - | - | 29081 | 27044 | 24563 | 23191 | 21737 | - |
| ΔP | - | 65 | 54 | 46 | 38 | 34 | 30 | - | - | - | 60 | 52 | 43 | 38 | 34 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | | 12 | | | | | | | | 14 | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 177,3 | 165,0 | 150,1 | 141,9 | 133,1 | - | - | - | - | 173,8 | 158,3 | 149,7 | 140,6 | - |
| Pe | - | - | 26,8 | 31,5 | 37,5 | 41,0 | 44,7 | - | - | - | - | 32,1 | 38,1 | 41,6 | 45,4 | - |
| EER | - | - | 6,61 | 5,23 | 4,00 | 3,46 | 2,98 | - | - | - | - | 5,41 | 4,15 | 3,60 | 3,10 | - |
| Qu | - | - | 30686 | 28551 | 25958 | 24524 | 23005 | - | - | - | - | 30105 | 27396 | 25899 | 24314 | - |
| ΔP | - | - | 67 | 58 | 48 | 43 | 38 | - | - | - | - | 64 | 53 | 48 | 42 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | | 16 | | | | | | | | 18 | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 166,7 | 157,7 | 148,2 | - | - | - | - | - | 175,3 | 165,9 | 156,1 | - |
| Pe | - | - | - | - | 38,8 | 42,3 | 46,0 | - | - | - | - | - | 39,4 | 42,9 | 46,7 | - |
| EER | - | - | - | - | 4,30 | 3,73 | 3,22 | - | - | - | - | - | 4,45 | 3,87 | 3,34 | - |
| Qu | - | - | - | - | 28876 | 27313 | 25664 | - | - | - | - | - | 30397 | 28768 | 27056 | - |
| ΔP | - | - | - | - | 59 | 53 | 47 | - | - | - | - | - | 66 | 59 | 52 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
**-** Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valvola Z | valvola O | valvola X | doppia valvola Y

TWu -10 °C | TWu 4 °C | TWu 18 °C

## OPERATION IN COOLING MODE - VERSION A

= DCPX accessory

**0652 A**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | - | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 105,2 | 103,3 | 98,0 | 90,0 | - | - | - | - | 112,4 | 110,4 | 104,9 | 96,5 | 86,4 | - | - | - |
| Pe | 17,6 | 20,4 | 25,0 | 29,9 | - | - | - | - | 18,0 | 20,8 | 25,4 | 30,3 | 36,7 | - | - | - |
| EER | 5,96 | 5,07 | 3,92 | 3,01 | - | - | - | - | 6,23 | 5,32 | 4,13 | 3,18 | 2,35 | - | - | - |
| Qu | 20325 | 19952 | 18934 | 17376 | - | - | - | - | 21524 | 21148 | 20095 | 18466 | 16530 | - | - | - |
| ΔP | 37 | 35 | 32 | 27 | - | - | - | - | 40 | 39 | 35 | 29 | 24 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 119,9 | 118,0 | 112,3 | 103,3 | 92,7 | 86,9 | - | - | 127,4 | 125,9 | 119,9 | 110,5 | 99,3 | 93,1 | - | - |
| Pe | 18,5 | 21,2 | 25,8 | 30,8 | 37,2 | 41,0 | - | - | 18,9 | 21,6 | 26,2 | 31,2 | 37,7 | 41,5 | - | - |
| EER | 6,49 | 5,57 | 4,35 | 3,36 | 2,49 | 2,12 | - | - | 6,75 | 5,82 | 4,57 | 3,54 | 2,63 | 2,24 | - | - |
| Qu | 22775 | 22339 | 21250 | 19551 | 17528 | 16425 | - | - | 24194 | 23581 | 22450 | 20681 | 18570 | 17416 | - | - |
| ΔP | 44 | 42 | 38 | 32 | 26 | 23 | - | - | 49 | 45 | 41 | 35 | 28 | 25 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 135,3 | 134,2 | 127,8 | 118,0 | 106,1 | 99,6 | 92,8 | - | 143,4 | 142,7 | 136,1 | 125,7 | 113,3 | 106,5 | 99,2 | 93,3 |
| Pe | 19,3 | 22,1 | 26,7 | 31,7 | 38,3 | 42,1 | 46,3 | - | 19,8 | 22,5 | 27,1 | 32,3 | 38,8 | 42,7 | 46,9 | 50,7 |
| EER | 7,00 | 6,08 | 4,79 | 3,72 | 2,77 | 2,37 | 2,01 | - | 7,24 | 6,33 | 5,01 | 3,90 | 2,92 | 2,49 | 2,12 | 1,84 |
| Qu | 25669 | 24876 | 23698 | 21857 | 19656 | 18450 | 17184 | - | 27198 | 26223 | 24994 | 23079 | 20787 | 19527 | 18193 | 17103 |
| ΔP | 55 | 49 | 44 | 38 | 31 | 27 | 23 | - | 61 | 53 | 48 | 41 | 33 | 30 | 26 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 151,8 | 151,8 | 144,8 | 133,9 | 120,8 | 113,6 | 106,0 | 99,6 | 160,5 | 161,1 | 153,6 | 142,2 | 128,5 | 121,0 | 112,9 | 106,2 |
| Pe | 20,3 | 23,0 | 27,6 | 32,8 | 39,4 | 43,3 | 47,5 | 51,4 | 20,8 | 23,5 | 28,2 | 33,4 | 40,1 | 44,0 | 48,2 | 52,1 |
| EER | 7,49 | 6,59 | 5,24 | 4,08 | 3,06 | 2,62 | 2,23 | 1,94 | 7,71 | 6,85 | 5,45 | 4,26 | 3,21 | 2,75 | 2,34 | 2,04 |
| Qu | 28781 | 27582 | 26297 | 24310 | 21928 | 20618 | 19217 | 18069 | 30415 | 29041 | 27695 | 25630 | 23153 | 21788 | 20318 | 19108 |
| ΔP | 68 | 57 | 52 | 45 | 36 | 32 | 28 | 25 | 75 | 62 | 57 | 49 | 40 | 35 | 31 | 27 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 169,5 | 170,1 | 164,0 | 152,0 | 137,6 | 129,6 | 121,0 | 113,8 | 174,0 | 174,7 | 168,5 | 156,2 | 141,5 | **133,6** | 124,5 | 117,2 |
| Pe | 21,4 | 24,1 | 28,7 | 34,0 | 40,8 | 44,7 | 49,0 | 52,9 | 21,7 | 24,4 | 29,0 | 34,3 | 41,1 | **45,0** | 49,3 | 53,2 |
| EER | 7,92 | 7,06 | 5,71 | 4,47 | 3,37 | 2,90 | 2,47 | 2,15 | 8,02 | 7,17 | 5,81 | 4,55 | 3,44 | **2,97** | 2,53 | 2,20 |
| Qu | 32100 | 30668 | 28306 | 26223 | 23721 | 22341 | 20849 | 19614 | 32963 | 31499 | 29091 | 26963 | 24407 | **23006** | 21470 | 20202 |
| ΔP | 84 | 69 | 57 | 49 | 40 | 35 | 31 | 27 | 88 | 73 | 60 | 52 | 42 | **38** | 33 | 29 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 178,7 | 179,3 | 173,0 | 160,5 | 145,4 | 137,1 | 128,1 | - | - | 188,8 | 182,2 | 169,2 | 153,5 | 144,9 | 135,5 | - |
| Pe | 22,0 | 24,7 | 29,3 | 34,6 | 41,4 | 45,3 | 49,6 | - | - | 25,3 | 29,9 | 35,2 | 42,1 | 46,0 | 50,3 | - |
| EER | 8,12 | 7,27 | 5,91 | 4,64 | 3,51 | 3,02 | 2,58 | - | - | 7,47 | 6,09 | 4,80 | 3,65 | 3,15 | 2,69 | - |
| Qu | 33836 | 32342 | 29887 | 27714 | 25104 | 23662 | 22101 | - | - | 34063 | 31512 | 29249 | 26529 | 25025 | 23397 | - |
| ΔP | 93 | 77 | 63 | 55 | 45 | 40 | 35 | - | - | 85 | 70 | 61 | 50 | 44 | 39 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 191,6 | 178,1 | 161,8 | 152,8 | 143,1 | - | - | - | - | 187,2 | 170,4 | 161,0 | 150,9 | - |
| Pe | - | - | 30,5 | 35,9 | 42,7 | 46,7 | 51,0 | - | - | - | - | 36,6 | 43,4 | 47,4 | 51,8 | - |
| EER | - | - | 6,27 | 4,96 | 3,79 | 3,27 | 2,81 | - | - | - | - | 5,12 | 3,92 | 3,39 | 2,92 | - |
| Qu | - | - | 33182 | 30826 | 27995 | 26428 | 24735 | - | - | - | - | 32446 | 29501 | 27870 | 26118 | - |
| ΔP | - | - | 78 | 67 | 56 | 50 | 43 | - | - | - | - | 75 | 62 | 55 | 48 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 196,6 | 179,1 | 169,4 | 159,0 | - | - | - | - | - | 188,0 | 178,0 | 167,3 | - |
| Pe | - | - | - | 37,3 | 44,2 | 48,2 | 52,5 | - | - | - | - | - | 45,0 | 49,0 | 53,4 | - |
| EER | - | - | - | 5,26 | 4,05 | 3,51 | 3,03 | - | - | - | - | - | 4,18 | 3,63 | 3,14 | - |
| Qu | - | - | - | 34106 | 31047 | 29352 | 27544 | - | - | - | - | - | 32632 | 30871 | 29014 | - |
| ΔP | - | - | - | 83 | 68 | 61 | 54 | - | - | - | - | - | 76 | 68 | 60 | - |

**Data 14511:2018**

| | |
|---|---|
| **TA b.s.** | External air temperature with dry bulb (°C) |
| **TWu** | Temperature of System side Water Produced (°C) |
| **Glycol** | Suggested ethylene glycol percentage (%) |
| **Pc** | Cooling capacity [kW] |
| **Pe** | Input power (kW) |
| **Qu** | System side Water flow rate [l/h] |
| **ΔP** | Pressure drop to the exchanger (kPa) |
| - | Conditions outside the operating range |

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve o valve X | double valve Y

TWu -10 °C | TWu 4 °C | TWu 18 °C

## OPERATION IN COOLING MODE - VERSION A

= DCPX accessory

**0682 A**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | 29 | - | - |
| Pc | 116,4 | 118,8 | 116,1 | 107,8 | 96,9 | - | - | - | 125,5 | 127,7 | 124,6 | 115,7 | 104,2 | 97,6 | - | - |
| Pe | 22,1 | 24,3 | 28,9 | 34,4 | 41,7 | - | - | - | 22,4 | 24,7 | 29,3 | 34,8 | 42,1 | 46,4 | - | - |
| EER | 5,27 | 4,89 | 4,01 | 3,13 | 2,32 | - | - | - | 5,61 | 5,18 | 4,25 | 3,33 | 2,47 | 2,10 | - | - |
| Qu | 22478 | 22956 | 22424 | 20814 | 18693 | - | - | - | 24041 | 24453 | 23854 | 22153 | 19928 | 18673 | - | - |
| ΔP | 35 | 36 | 35 | 30 | 24 | - | - | - | 39 | 40 | 38 | 33 | 27 | 23 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 135,2 | 137,1 | 133,6 | 124,2 | 111,9 | 105,0 | - | - | 145,0 | 147,1 | 143,0 | 133,0 | 120,1 | 112,8 | 105,2 | - |
| Pe | 22,7 | 25,1 | 29,8 | 35,2 | 42,5 | 46,9 | - | - | 23,1 | 25,5 | 30,2 | 35,7 | 43,0 | 47,4 | 52,2 | - |
| EER | 5,96 | 5,47 | 4,49 | 3,52 | 2,63 | 2,24 | - | - | 6,28 | 5,76 | 4,73 | 3,72 | 2,79 | 2,38 | 2,01 | - |
| Qu | 25684 | 25962 | 25284 | 23495 | 21168 | 19859 | - | - | 27535 | 27547 | 26782 | 24898 | 22467 | 21100 | 19666 | - |
| ΔP | 43 | 44 | 41 | 36 | 29 | 26 | - | - | 49 | 48 | 45 | 39 | 32 | 28 | 24 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 155,3 | 157,5 | 152,9 | 142,3 | 128,6 | 121,0 | 112,9 | - | 166,0 | 168,4 | 163,2 | 152,0 | 137,6 | 129,5 | 121,0 | 106,1 |
| Pe | 23,6 | 26,0 | 30,7 | 36,2 | 43,5 | 47,9 | 52,8 | - | 24,1 | 26,5 | 31,3 | 36,8 | 44,1 | 48,4 | 53,3 | 62,6 |
| EER | 6,59 | 6,06 | 4,97 | 3,93 | 2,95 | 2,53 | 2,14 | - | 6,90 | 6,35 | 5,22 | 4,13 | 3,12 | 2,67 | 2,27 | 1,70 |
| Qu | 29467 | 29208 | 28349 | 26367 | 23826 | 22400 | 20899 | - | 31479 | 30946 | 29985 | 27901 | 25247 | 23758 | 22188 | 19448 |
| ΔP | 56 | 52 | 49 | 43 | 35 | 31 | 27 | - | 63 | 58 | 54 | 47 | 38 | 34 | 30 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 177,1 | 180,0 | 174,2 | 162,2 | 147,1 | 138,6 | 129,6 | 113,8 | 188,6 | 191,8 | 185,4 | 172,7 | 156,8 | 147,9 | 138,4 | 121,9 |
| Pe | 24,7 | 27,1 | 31,9 | 37,4 | 44,7 | 49,0 | 53,9 | 63,2 | 25,4 | 27,8 | 32,5 | 38,0 | 45,3 | 49,6 | 54,5 | 63,8 |
| EER | 7,17 | 6,64 | 5,47 | 4,34 | 3,29 | 2,83 | 2,40 | 1,80 | 7,41 | 6,90 | 5,70 | 4,55 | 3,46 | 2,98 | 2,54 | 1,91 |
| Qu | 33569 | 32709 | 31644 | 29458 | 26690 | 25140 | 23502 | 20639 | 35735 | 34604 | 33430 | 31133 | 28243 | 26626 | 24916 | 21925 |
| ΔP | 72 | 63 | 59 | 51 | 42 | 37 | 32 | 25 | 81 | 69 | 64 | 56 | 46 | 41 | 36 | 28 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 200,4 | 203,5 | 198,5 | 185,1 | 168,2 | 158,7 | 148,7 | 131,2 | 206,5 | 209,4 | 204,3 | 190,4 | 173,1 | **163,9** | 153,3 | 135,3 |
| Pe | 26,3 | 28,5 | 33,2 | 38,6 | 46,0 | 50,4 | 55,2 | 64,6 | 26,7 | 28,9 | 33,5 | 39,0 | 46,3 | **50,7** | 55,5 | 64,9 |
| EER | 7,63 | 7,13 | 5,99 | 4,79 | 3,66 | 3,15 | 2,69 | 2,03 | 7,73 | 7,24 | 6,10 | 4,89 | 3,74 | **3,23** | 2,76 | 2,09 |
| Qu | 37974 | 36708 | 34276 | 31934 | 29003 | 27366 | 25633 | 22603 | 39121 | 37787 | 35284 | 32879 | 29878 | **28215** | 26430 | 23330 |
| ΔP | 91 | 77 | 65 | 56 | 46 | 41 | 36 | 28 | 96 | 82 | 69 | 60 | 49 | **44** | 38 | 30 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 212,6 | 215,5 | 210,1 | 195,9 | 178,2 | 168,3 | 157,9 | - | - | - | 221,9 | 207,1 | 188,6 | 178,3 | 167,4 | - |
| Pe | 27,2 | 29,3 | 33,9 | 39,3 | 46,6 | 51,0 | 55,8 | - | - | - | 34,6 | 40,0 | 47,3 | 51,7 | 56,5 | - |
| EER | 7,82 | 7,35 | 6,20 | 4,98 | 3,82 | 3,30 | 2,83 | - | - | - | 6,41 | 5,17 | 3,99 | 3,45 | 2,96 | - |
| Qu | 40285 | 38882 | 36309 | 33841 | 30768 | 29055 | 27242 | - | - | - | 38413 | 35814 | 32596 | 30805 | 28910 | - |
| ΔP | 102 | 86 | 73 | 63 | 52 | 46 | 41 | - | - | - | 81 | 71 | 59 | 52 | 46 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 234,2 | 218,6 | 199,3 | 188,6 | 177,2 | - | - | - | - | 230,4 | 210,3 | 199,2 | 187,3 | - |
| Pe | - | - | 35,4 | 40,8 | 48,1 | 52,4 | 57,2 | - | - | - | - | 41,6 | 48,8 | 53,1 | 57,9 | - |
| EER | - | - | 6,61 | 5,36 | 4,15 | 3,60 | 3,10 | - | - | - | - | 5,53 | 4,31 | 3,75 | 3,24 | - |
| Qu | - | - | 40586 | 37853 | 34486 | 32615 | 30637 | - | - | - | - | 39959 | 36439 | 34485 | 32425 | - |
| ΔP | - | - | 91 | 79 | 65 | 59 | 52 | - | - | - | - | 88 | 73 | 65 | 58 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 221,7 | 210,0 | 197,8 | - | - | - | - | - | 233,4 | 221,3 | 208,5 | - |
| Pe | - | - | - | - | 49,7 | 54,0 | 58,7 | - | - | - | - | - | 50,6 | 54,8 | 59,5 | - |
| EER | - | - | - | - | 4,46 | 3,89 | 3,37 | - | - | - | - | - | 4,62 | 4,04 | 3,50 | - |
| Qu | - | - | - | - | 38454 | 36416 | 34272 | - | - | - | - | - | 40533 | 38408 | 36180 | - |
| ΔP | - | - | - | - | 81 | 73 | 65 | - | - | - | - | - | 90 | 81 | 72 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
**-** Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN COOLING MODE - VERSION A

= DCPX accessory


**0702 A**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | 29 | - | - |
| Pc | 135,2 | 133,0 | 128,0 | 118,7 | 106,5 | - | - | - | 145,2 | 143,0 | 137,4 | 127,4 | 114,3 | 106,9 | - | - |
| Pe | 24,9 | 27,1 | 31,8 | 37,8 | 46,2 | - | - | - | 25,5 | 27,7 | 32,3 | 38,3 | 46,6 | 51,7 | - | - |
| EER | 5,43 | 4,91 | 4,03 | 3,14 | 2,31 | - | - | - | 5,71 | 5,17 | 4,26 | 3,33 | 2,45 | 2,07 | - | - |
| Qu | 26126 | 25713 | 24734 | 22936 | 20552 | - | - | - | 27840 | 27403 | 26327 | 24400 | 21890 | 20456 | - | - |
| ΔP | 47 | 46 | 43 | 37 | 29 | - | - | - | 52 | 51 | 47 | 40 | 32 | 28 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 155,9 | 153,6 | 147,4 | 136,6 | 122,8 | 114,9 | - | - | 166,7 | 164,8 | 157,9 | 146,3 | 131,6 | 123,3 | 114,6 | - |
| Pe | 26,0 | 28,2 | 32,8 | 38,8 | 47,2 | 52,3 | - | - | 26,7 | 28,8 | 33,4 | 39,4 | 47,8 | 52,8 | 58,6 | - |
| EER | 5,99 | 5,44 | 4,49 | 3,52 | 2,60 | 2,20 | - | - | 6,25 | 5,71 | 4,73 | 3,71 | 2,76 | 2,33 | 1,96 | - |
| Qu | 29638 | 29104 | 27919 | 25867 | 23230 | 21732 | - | - | 31674 | 30888 | 29586 | 27404 | 24634 | 23070 | 21437 | - |
| ΔP | 58 | 55 | 51 | 44 | 35 | 31 | - | - | 66 | 61 | 56 | 48 | 39 | 34 | 29 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 177,9 | 176,5 | 168,9 | 156,5 | 140,9 | 132,1 | 123,0 | - | 189,7 | 188,7 | 180,3 | 167,0 | 150,5 | 141,3 | 131,7 | 114,3 |
| Pe | 27,4 | 29,5 | 34,0 | 40,0 | 48,4 | 53,5 | 59,2 | - | 28,2 | 30,3 | 34,7 | 40,7 | 49,1 | 54,1 | 59,9 | 70,7 |
| EER | 6,50 | 5,98 | 4,96 | 3,91 | 2,91 | 2,47 | 2,08 | - | 6,73 | 6,23 | 5,19 | 4,10 | 3,07 | 2,61 | 2,20 | 1,62 |
| Qu | 33800 | 32756 | 31328 | 29010 | 26105 | 24471 | 22769 | - | 36015 | 34709 | 33146 | 30688 | 27641 | 25936 | 24162 | 20952 |
| ΔP | 74 | 66 | 61 | 52 | 42 | 37 | 32 | - | 84 | 73 | 67 | 57 | 46 | 41 | 35 | 27 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 201,8 | 201,7 | 192,4 | 178,3 | 160,8 | 151,1 | 140,9 | 122,6 | 214,4 | 215,0 | 204,8 | 189,7 | 171,3 | 161,1 | 150,4 | 131,2 |
| Pe | 29,0 | 31,1 | 35,5 | 41,5 | 49,8 | 54,9 | 60,6 | 71,5 | 29,9 | 32,0 | 36,4 | 42,3 | 50,6 | 55,7 | 61,4 | 72,2 |
| EER | 6,96 | 6,49 | 5,42 | 4,30 | 3,23 | 2,75 | 2,32 | 1,72 | 7,16 | 6,73 | 5,63 | 4,49 | 3,39 | 2,89 | 2,45 | 1,82 |
| Qu | 38319 | 36691 | 34990 | 32390 | 29201 | 27425 | 25574 | 22235 | 40708 | 38821 | 36971 | 34221 | 30879 | 29025 | 27094 | 23615 |
| ΔP | 94 | 79 | 72 | 62 | 50 | 44 | 39 | 29 | 106 | 87 | 79 | 68 | 55 | 49 | 43 | 32 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 227,5 | 228,0 | 219,4 | 203,2 | 183,6 | 172,8 | 161,5 | 141,2 | 234,2 | 234,7 | 225,7 | 209,1 | 189,0 | **178,5** | 166,4 | 145,7 |
| Pe | 30,9 | 32,9 | 37,2 | 43,1 | 51,5 | 56,6 | 62,3 | 73,1 | 31,5 | 33,4 | 37,7 | 43,6 | 51,9 | **57,0** | 62,6 | 73,5 |
| EER | 7,36 | 6,93 | 5,90 | 4,71 | 3,57 | 3,06 | 2,59 | 1,93 | 7,45 | 7,03 | 5,99 | 4,80 | 3,64 | **3,13** | 2,66 | 1,98 |
| Qu | 43183 | 41191 | 37913 | 35090 | 31690 | 29811 | 27853 | 24340 | 44453 | 42404 | 39029 | 36122 | 32636 | **30726** | 28708 | 25119 |
| ΔP | 119 | 98 | 80 | 68 | 56 | 49 | 43 | 33 | 125 | 104 | 85 | 72 | 59 | **52** | 46 | 35 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 241,5 | 232,1 | 215,0 | 194,5 | 183,2 | 171,3 | - | - | - | 245,2 | 227,2 | 205,7 | 193,9 | 181,5 | - |
| Pe | - | 33,9 | 38,1 | 44,0 | 52,3 | 57,4 | 63,0 | - | - | - | 39,2 | 45,0 | 53,2 | 58,3 | 63,9 | - |
| EER | - | 7,12 | 6,08 | 4,88 | 3,72 | 3,19 | 2,72 | - | - | - | 6,26 | 5,05 | 3,86 | 3,33 | 2,84 | - |
| Qu | - | 43638 | 40165 | 37173 | 33598 | 31630 | 29579 | - | - | - | 42493 | 39327 | 35572 | 33513 | 31365 | - |
| ΔP | - | 110 | 90 | 77 | 63 | 56 | 49 | - | - | - | 100 | 86 | 70 | 62 | 55 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | - | 239,7 | 217,2 | 204,9 | 192,0 | - | - | - | - | 252,6 | 229,1 | 216,2 | 202,8 | - |
| Pe | - | - | - | 46,0 | 54,2 | 59,2 | 64,7 | - | - | - | - | 47,1 | 55,2 | 60,2 | 65,7 | - |
| EER | - | - | - | 5,21 | 4,01 | 3,46 | 2,97 | - | - | - | - | 5,36 | 4,15 | 3,59 | 3,09 | - |
| Qu | - | - | - | 41552 | 37613 | 35459 | 33213 | - | - | - | - | 43849 | 39720 | 37469 | 35123 | - |
| ΔP | - | - | - | 96 | 79 | 70 | 61 | - | - | - | - | 107 | 88 | 78 | 69 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 241,3 | 227,9 | 213,9 | - | - | - | - | - | 253,8 | 239,9 | 225,3 | - |
| Pe | - | - | - | - | 56,3 | 61,3 | 66,7 | - | - | - | - | - | 57,5 | 62,4 | 67,9 | - |
| EER | - | - | - | - | 4,28 | 3,72 | 3,21 | - | - | - | - | - | 4,41 | 3,84 | 3,32 | - |
| Qu | - | - | - | - | 41892 | 39542 | 37095 | - | - | - | - | - | 44131 | 41679 | 39129 | - |
| ΔP | - | - | - | - | 97 | 87 | 76 | - | - | - | - | - | 108 | 96 | 85 | - |

**Data 14511:2018**

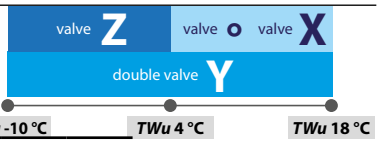
**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
**-** Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN COOLING MODE - VERSION A

= DCPX accessory




**0752 A**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 154,4 | 151,3 | 145,1 | 134,5 | 120,6 | - | - | - | 165,9 | 162,6 | 155,7 | 144,2 | 129,4 | - | - | - |
| Pe | 27,8 | 30,4 | 35,8 | 42,9 | 52,9 | - | - | - | 28,4 | 31,1 | 36,4 | 43,6 | 53,5 | - | - | - |
| EER | 5,56 | 4,98 | 4,05 | 3,13 | 2,28 | - | - | - | 5,84 | 5,23 | 4,27 | 3,31 | 2,42 | - | - | - |
| Qu | 29843 | 29240 | 28041 | 25979 | 23294 | - | - | - | 31792 | 31157 | 29833 | 27614 | 24774 | - | - | - |
| ΔP | 53 | 51 | 47 | 40 | 32 | - | - | - | 58 | 56 | 51 | 44 | 35 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 177,9 | 174,6 | 166,9 | 154,5 | 138,8 | 129,8 | - | - | 190,1 | 187,2 | 178,7 | 165,3 | 148,6 | 139,1 | 130,0 | - |
| Pe | 29,1 | 31,8 | 37,1 | 44,3 | 54,2 | 60,3 | - | - | 29,9 | 32,5 | 37,8 | 45,0 | 55,0 | 61,0 | 67,5 | - |
| EER | 6,11 | 5,50 | 4,50 | 3,49 | 2,56 | 2,15 | - | - | 6,35 | 5,75 | 4,72 | 3,67 | 2,70 | 2,28 | 1,93 | - |
| Qu | 33837 | 33084 | 31622 | 29250 | 26256 | 24561 | - | - | 36146 | 35102 | 33491 | 30958 | 27808 | 26034 | 24328 | - |
| ΔP | 64 | 61 | 56 | 48 | 38 | 34 | - | - | 73 | 67 | 61 | 52 | 42 | 37 | 32 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 202,9 | 200,5 | 191,0 | 176,6 | 158,8 | 148,8 | 139,4 | - | 216,1 | 214,2 | 203,8 | 188,3 | 169,5 | 159,0 | 149,1 | 134,3 |
| Pe | 30,8 | 33,4 | 38,6 | 45,8 | 55,8 | 61,9 | 68,5 | - | 31,7 | 34,3 | 39,5 | 46,7 | 56,7 | 62,8 | 69,6 | 77,3 |
| EER | 6,59 | 6,01 | 4,94 | 3,86 | 2,85 | 2,41 | 2,03 | - | 6,81 | 6,25 | 5,16 | 4,04 | 2,99 | 2,53 | 2,14 | 1,74 |
| Qu | 38555 | 37212 | 35440 | 32743 | 29431 | 27575 | 25813 | - | 41062 | 39415 | 37471 | 34606 | 31124 | 29183 | 27352 | 24634 |
| ΔP | 82 | 73 | 66 | 57 | 46 | 40 | 35 | - | 93 | 80 | 72 | 62 | 50 | 44 | 39 | 31 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 229,8 | 228,8 | 217,3 | 200,8 | 180,8 | 169,7 | 159,3 | 143,8 | 244,0 | 243,8 | 231,1 | 213,5 | 192,4 | 180,8 | 169,7 | 153,5 |
| Pe | 32,8 | 35,3 | 40,5 | 47,6 | 57,7 | 63,7 | 70,8 | 78,4 | 33,9 | 36,3 | 41,5 | 48,7 | 58,7 | 64,8 | 72,0 | 79,6 |
| EER | 7,02 | 6,49 | 5,37 | 4,21 | 3,14 | 2,66 | 2,25 | 1,83 | 7,21 | 6,72 | 5,57 | 4,39 | 3,28 | 2,79 | 2,36 | 1,93 |
| Qu | 43664 | 41646 | 39527 | 36491 | 32839 | 30814 | 28901 | 26087 | 46357 | 44040 | 41734 | 38516 | 34683 | 32567 | 30557 | 27639 |
| ΔP | 104 | 87 | 78 | 67 | 54 | 48 | 42 | 34 | 117 | 96 | 86 | 73 | 59 | 52 | 46 | 38 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | - | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 258,7 | 258,4 | 247,4 | 228,4 | 206,0 | 193,6 | 181,8 | 164,8 | - | 265,8 | 254,4 | 234,9 | 211,9 | **199,9** | 187,0 | 169,7 |
| Pe | 35,0 | 37,4 | 42,6 | 49,7 | 59,8 | 65,9 | 73,4 | 81,2 | - | 38,0 | 43,1 | 50,3 | 60,3 | **66,5** | 74,0 | 81,8 |
| EER | 7,38 | 6,91 | 5,81 | 4,59 | 3,44 | 2,94 | 2,48 | 2,03 | - | 6,99 | 5,90 | 4,67 | 3,51 | **3,01** | 2,53 | 2,07 |
| Qu | 49142 | 46698 | 42762 | 39456 | 35551 | 33404 | 31346 | 28408 | - | 48059 | 44004 | 40597 | 36589 | **34406** | 32272 | 29276 |
| ΔP | 131 | 107 | 86 | 74 | 60 | 53 | 46 | 38 | - | 114 | 92 | 78 | 63 | **56** | 49 | 41 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 273,4 | 261,5 | 241,4 | 217,9 | 205,0 | 192,4 | - | - | - | 276,0 | 254,8 | 230,1 | 216,6 | 203,3 | - |
| Pe | - | 38,6 | 43,7 | 50,9 | 60,9 | 67,0 | 74,7 | - | - | - | 45,0 | 52,1 | 62,1 | 68,2 | 75,9 | - |
| EER | - | 7,08 | 5,98 | 4,75 | 3,58 | 3,06 | 2,58 | - | - | - | 6,14 | 4,89 | 3,71 | 3,18 | 2,68 | - |
| Qu | - | 49441 | 45265 | 41756 | 37645 | 35395 | 33211 | - | - | - | 47848 | 44132 | 39809 | 37451 | 35133 | - |
| ΔP | - | 120 | 97 | 82 | 67 | 59 | 52 | - | - | - | 108 | 92 | 75 | 66 | 58 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | - | 268,6 | 242,7 | 228,6 | 214,5 | - | - | - | - | 282,7 | 255,7 | 240,9 | 226,0 | - |
| Pe | - | - | - | 53,4 | 63,3 | 69,4 | 77,2 | - | - | - | - | 54,8 | 64,7 | 70,7 | 78,6 | - |
| EER | - | - | - | 5,03 | 3,83 | 3,29 | 2,78 | - | - | - | - | 5,16 | 3,95 | 3,41 | 2,88 | - |
| Qu | - | - | - | 46581 | 42042 | 39574 | 37111 | - | - | - | - | 49105 | 44343 | 41762 | 39147 | - |
| ΔP | - | - | - | 103 | 84 | 74 | 65 | - | - | - | - | 114 | 93 | 82 | 72 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 268,9 | 253,6 | 237,8 | - | - | - | - | - | 282,6 | 266,6 | 249,9 | - |
| Pe | - | - | - | - | 66,1 | 72,1 | 79,9 | - | - | - | - | - | 67,6 | 73,6 | 81,1 | - |
| EER | - | - | - | - | 4,07 | 3,52 | 2,98 | - | - | - | - | - | 4,18 | 3,62 | 3,08 | - |
| Qu | - | - | - | - | 46711 | 44015 | 41241 | - | - | - | - | - | 49147 | 46332 | 43393 | - |
| ΔP | - | - | - | - | 103 | 92 | 80 | - | - | - | - | - | 114 | 101 | 89 | - |

**Data 14511:2018**

| | |
|---|---|
| **TA b.s.** | External air temperature with dry bulb (°C) |
| **TWu** | Temperature of System side Water Produced (°C) |
| **Glycol** | Suggested ethylene glycol percentage (%) |
| **Pc** | Cooling capacity [kW] |
| **Pe** | Input power (kW) |
| **Qu** | System side Water flow rate [l/h] |
| **ΔP** | Pressure drop to the exchanger (kPa) |
| - | Conditions outside the operating range |

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valvola Z | valvola O | valvola X | doppia valvola Y

*TWu* -10 °C | *TWu* 4 °C | *TWu* 18 °C

## OPERATION IN COOLING MODE - VERSION A

= DCPX accessory

**0604 A**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 96,8 | 94,0 | 88,2 | 79,5 | 69,2 | - | - | - | 104,3 | 101,4 | 95,3 | 86,1 | 75,2 | - | - | - |
| Pe | 17,3 | 19,2 | 23,4 | 28,6 | 35,0 | - | - | - | 17,7 | 19,6 | 23,8 | 28,9 | 35,4 | - | - | - |
| EER | 5,58 | 4,89 | 3,76 | 2,78 | 1,98 | - | - | - | 5,88 | 5,17 | 4,01 | 2,98 | 2,12 | - | - | - |
| Qu | 18705 | 18161 | 17029 | 15356 | 13344 | - | - | - | 19976 | 19426 | 18242 | 16486 | 14381 | - | - | - |
| ΔP | 37 | 35 | 30 | 25 | 19 | - | - | - | 41 | 38 | 34 | 28 | 21 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 112,1 | 109,3 | 102,8 | 93,1 | 81,6 | 75,2 | - | - | 120,2 | 117,7 | 110,7 | 100,5 | 88,3 | 81,6 | 74,7 | - |
| Pe | 18,2 | 20,0 | 24,1 | 29,3 | 35,9 | 39,8 | - | - | 18,6 | 20,5 | 24,5 | 29,7 | 36,3 | 40,3 | 44,8 | - |
| EER | 6,17 | 5,46 | 4,26 | 3,18 | 2,27 | 1,89 | - | - | 6,45 | 5,74 | 4,51 | 3,38 | 2,43 | 2,03 | 1,67 | - |
| Qu | 21314 | 20704 | 19460 | 17622 | 15425 | 14215 | - | - | 22828 | 22045 | 20734 | 18809 | 16516 | 15255 | 13958 | - |
| ΔP | 45 | 42 | 37 | 31 | 23 | 20 | - | - | 51 | 47 | 41 | 34 | 26 | 22 | 19 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 128,6 | 126,4 | 119,0 | 108,2 | 95,3 | 88,3 | 81,0 | - | 137,4 | 135,6 | 127,6 | 116,2 | 102,7 | 95,2 | 87,5 | 77,4 |
| Pe | 19,2 | 21,0 | 25,0 | 30,1 | 36,8 | 40,8 | 45,4 | - | 19,7 | 21,5 | 25,4 | 30,6 | 37,3 | 41,3 | 45,9 | 52,2 |
| EER | 6,71 | 6,02 | 4,77 | 3,59 | 2,59 | 2,16 | 1,78 | - | 6,96 | 6,30 | 5,02 | 3,80 | 2,76 | 2,31 | 1,91 | 1,48 |
| Qu | 24414 | 23451 | 22062 | 20047 | 17654 | 16339 | 14984 | - | 26069 | 24921 | 23447 | 21338 | 18842 | 17470 | 16051 | 14183 |
| ΔP | 58 | 51 | 45 | 38 | 29 | 25 | 21 | - | 66 | 57 | 50 | 42 | 32 | 28 | 24 | 18 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 146,5 | 145,3 | 136,8 | 124,7 | 110,5 | 102,6 | 94,5 | 83,7 | 156,0 | 155,3 | 146,1 | 133,4 | 118,4 | 110,2 | 101,6 | 90,3 |
| Pe | 20,4 | 22,1 | 25,9 | 31,1 | 37,8 | 41,8 | 46,5 | 52,8 | 21,1 | 22,8 | 26,5 | 31,6 | 38,3 | 42,4 | 47,1 | 53,5 |
| EER | 7,19 | 6,56 | 5,27 | 4,01 | 2,92 | 2,45 | 2,03 | 1,58 | 7,40 | 6,82 | 5,52 | 4,22 | 3,09 | 2,60 | 2,16 | 1,69 |
| Qu | 27792 | 26415 | 24852 | 22648 | 20046 | 18619 | 17136 | 15179 | 29583 | 28019 | 26356 | 24049 | 21333 | 19845 | 18293 | 16243 |
| ΔP | 75 | 62 | 55 | 46 | 36 | 31 | 26 | 20 | 84 | 69 | 61 | 50 | 40 | 34 | 29 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | - | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 165,8 | 165,1 | 157,1 | 143,5 | 127,7 | 119,0 | 109,9 | 97,8 | - | 170,2 | 161,9 | 148,0 | 131,8 | **123,1** | 113,5 | 101,2 |
| Pe | 21,9 | 23,5 | 27,1 | 32,2 | 38,9 | 43,1 | 47,8 | 54,2 | - | 23,9 | 27,4 | 32,5 | 39,2 | **43,3** | 48,1 | 54,5 |
| EER | 7,58 | 7,02 | 5,80 | 4,46 | 3,28 | 2,76 | 2,30 | 1,80 | - | 7,12 | 5,91 | 4,56 | 3,36 | **2,84** | 2,36 | 1,86 |
| Qu | 31438 | 29797 | 27118 | 24772 | 22020 | 20513 | 18936 | 16855 | - | 30708 | 27960 | 25555 | 22737 | **21205** | 19579 | 17449 |
| ΔP | 95 | 77 | 62 | 51 | 41 | 35 | 30 | 24 | - | 82 | 65 | 55 | 43 | **38** | 32 | 25 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 175,3 | 166,7 | 152,5 | 135,9 | 126,8 | 117,3 | - | - | - | 176,6 | 161,8 | 144,4 | 134,9 | 124,9 | - |
| Pe | - | 24,3 | 27,7 | 32,8 | 39,5 | 43,6 | 48,4 | - | - | - | 28,5 | 33,4 | 40,1 | 44,3 | 49,0 | - |
| EER | - | 7,21 | 6,01 | 4,66 | 3,44 | 2,91 | 2,43 | - | - | - | 6,21 | 4,85 | 3,60 | 3,05 | 2,55 | - |
| Qu | - | 31635 | 28816 | 26351 | 23467 | 21889 | 20234 | - | - | - | 30570 | 27981 | 24961 | 23312 | 21577 | - |
| ΔP | - | 87 | 69 | 58 | 46 | 40 | 34 | - | - | - | 78 | 66 | 52 | 45 | 39 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | - | 171,3 | 153,2 | 143,3 | 132,8 | - | - | - | - | 181,1 | 162,2 | 151,8 | 141,0 | - |
| Pe | - | - | - | 34,1 | 40,8 | 44,9 | 49,6 | - | - | - | - | 34,9 | 41,5 | 45,6 | 50,3 | - |
| EER | - | - | - | 5,02 | 3,76 | 3,19 | 2,68 | - | - | - | - | 5,19 | 3,91 | 3,33 | 2,80 | - |
| Qu | - | - | - | 29662 | 26503 | 24779 | 22964 | - | - | - | - | 31394 | 28092 | 26292 | 24398 | - |
| ΔP | - | - | - | 74 | 59 | 51 | 44 | - | - | - | - | 82 | 66 | 58 | 50 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 171,4 | 160,7 | 149,3 | - | - | - | - | - | 180,9 | 169,7 | 158,0 | - |
| Pe | - | - | - | - | 42,3 | 46,4 | 51,1 | - | - | - | - | - | 43,1 | 47,2 | 51,9 | - |
| EER | - | - | - | - | 4,06 | 3,47 | 2,92 | - | - | - | - | - | 4,20 | 3,60 | 3,04 | - |
| Qu | - | - | - | - | 29727 | 27848 | 25876 | - | - | - | - | - | 31408 | 29449 | 27399 | - |
| ΔP | - | - | - | - | 74 | 65 | 56 | - | - | - | - | - | 83 | 73 | 63 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
**-** Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve o | valve X
double valve Y

TWu -10 °C | TWu 4 °C | TWu 18 °C

## OPERATION IN COOLING MODE - VERSION A

= DCPX accessory

**0654 A**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | 29 | - | - |
| Pc | 102,9 | 102,6 | 98,1 | 89,8 | 79,0 | - | - | - | 111,9 | 111,3 | 106,2 | 97,3 | 85,9 | 79,5 | - | - |
| Pe | 21,1 | 23,0 | 27,1 | 32,6 | 39,5 | - | - | - | 21,7 | 23,5 | 27,4 | 32,9 | 39,9 | 44,0 | - | - |
| EER | 4,88 | 4,46 | 3,62 | 2,76 | 2,00 | - | - | - | 5,17 | 4,74 | 3,87 | 2,96 | 2,15 | 1,81 | - | - |
| Qu | 19891 | 19836 | 18957 | 17341 | 15258 | - | - | - | 21453 | 21328 | 20343 | 18626 | 16442 | 15211 | - | - |
| ΔP | 42 | 41 | 38 | 32 | 24 | - | - | - | 47 | 46 | 42 | 35 | 28 | 24 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 121,4 | 120,5 | 114,8 | 105,2 | 93,2 | 86,5 | - | - | 131,0 | 130,3 | 123,9 | 113,6 | 100,9 | 93,8 | 86,3 | - |
| Pe | 22,3 | 23,9 | 27,7 | 33,1 | 40,2 | 44,4 | - | - | 22,9 | 24,5 | 28,1 | 33,4 | 40,6 | 44,8 | 49,7 | - |
| EER | 5,45 | 5,04 | 4,14 | 3,18 | 2,32 | 1,95 | - | - | 5,72 | 5,33 | 4,41 | 3,40 | 2,49 | 2,09 | 1,74 | - |
| Qu | 23086 | 22838 | 21742 | 19923 | 17635 | 16353 | - | - | 24905 | 24419 | 23211 | 21281 | 18885 | 17547 | 16137 | - |
| ΔP | 53 | 52 | 47 | 39 | 31 | 26 | - | - | 61 | 57 | 52 | 43 | 34 | 30 | 25 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 141,1 | 140,5 | 133,4 | 122,4 | 109,0 | 101,5 | 93,6 | - | 151,5 | 151,2 | 143,4 | 131,7 | 117,4 | 109,5 | 101,2 | 86,5 |
| Pe | 23,6 | 25,0 | 28,4 | 33,8 | 40,9 | 45,2 | 50,1 | - | 24,4 | 25,6 | 28,9 | 34,1 | 41,3 | 45,6 | 50,6 | 59,8 |
| EER | 5,98 | 5,61 | 4,69 | 3,63 | 2,66 | 2,24 | 1,87 | - | 6,21 | 5,89 | 4,97 | 3,86 | 2,84 | 2,40 | 2,00 | 1,45 |
| Qu | 26800 | 26074 | 24748 | 22706 | 20194 | 18798 | 17328 | - | 28769 | 27804 | 26359 | 24196 | 21561 | 20104 | 18573 | 15869 |
| ΔP | 70 | 64 | 57 | 48 | 38 | 33 | 28 | - | 81 | 71 | 63 | 54 | 42 | 37 | 32 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 162,3 | 162,5 | 154,0 | 141,5 | 126,4 | 118,1 | 109,3 | 93,9 | 173,4 | 174,1 | 164,9 | 151,6 | 135,6 | 126,9 | 117,7 | 101,4 |
| Pe | 25,2 | 26,4 | 29,3 | 34,5 | 41,7 | 46,1 | 51,0 | 60,4 | 26,2 | 27,1 | 29,9 | 35,0 | 42,1 | 46,5 | 51,5 | 60,9 |
| EER | 6,43 | 6,16 | 5,25 | 4,10 | 3,03 | 2,56 | 2,14 | 1,55 | 6,63 | 6,42 | 5,51 | 4,34 | 3,22 | 2,73 | 2,29 | 1,66 |
| Qu | 30814 | 29564 | 28000 | 25713 | 22956 | 21436 | 19841 | 17021 | 32931 | 31452 | 29765 | 27345 | 24451 | 22863 | 21198 | 18258 |
| ΔP | 92 | 78 | 70 | 59 | 47 | 41 | 35 | 26 | 105 | 86 | 77 | 65 | 52 | 46 | 39 | 29 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 185,0 | 185,6 | 177,6 | 163,4 | 146,4 | 137,1 | 127,4 | 110,2 | 190,8 | 191,5 | 183,2 | 168,6 | 151,2 | **142,1** | 131,7 | 114,1 |
| Pe | 27,2 | 28,0 | 30,5 | 35,4 | 42,6 | 47,0 | 52,1 | 61,6 | 27,7 | 28,5 | 30,8 | 35,7 | 42,8 | **47,2** | 52,3 | 61,8 |
| EER | 6,81 | 6,63 | 5,82 | 4,61 | 3,44 | 2,92 | 2,45 | 1,79 | 6,89 | 6,73 | 5,94 | 4,72 | 3,53 | **3,01** | 2,52 | 1,85 |
| Qu | 35120 | 33540 | 30701 | 28214 | 25265 | 23652 | 21964 | 18990 | 36241 | 34611 | 31694 | 29130 | 26104 | **24461** | 22723 | 19682 |
| ΔP | 118 | 98 | 79 | 67 | 53 | 47 | 40 | 30 | 126 | 104 | 84 | 71 | 57 | **50** | 43 | 32 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 197,5 | 189,0 | 173,9 | 156,0 | 146,3 | 136,1 | - | - | - | 200,7 | 184,7 | 166,0 | 155,8 | 145,1 | - |
| Pe | - | 29,0 | 31,2 | 36,0 | 43,0 | 47,4 | 52,5 | - | - | - | 32,0 | 36,6 | 43,5 | 47,9 | 53,0 | - |
| EER | - | 6,82 | 6,06 | 4,83 | 3,63 | 3,08 | 2,59 | - | - | - | 6,27 | 5,05 | 3,82 | 3,25 | 2,74 | - |
| Qu | - | 35702 | 32706 | 30065 | 26958 | 25265 | 23495 | - | - | - | 34787 | 31986 | 28716 | 26938 | 25084 | - |
| ΔP | - | 111 | 90 | 76 | 61 | 53 | 46 | - | - | - | 101 | 86 | 69 | 61 | 53 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 212,8 | 195,9 | 176,3 | 165,6 | 154,5 | - | - | - | - | 207,5 | 186,9 | 175,8 | 164,2 | - |
| Pe | - | - | 32,9 | 37,3 | 44,0 | 48,4 | 53,5 | - | - | - | - | 38,0 | 44,6 | 48,9 | 54,0 | - |
| EER | - | - | 6,47 | 5,26 | 4,01 | 3,42 | 2,89 | - | - | - | - | 5,46 | 4,19 | 3,59 | 3,04 | - |
| Qu | - | - | 36946 | 33979 | 30538 | 28673 | 26731 | - | - | - | - | 36043 | 32425 | 30470 | 28437 | - |
| ΔP | - | - | 114 | 97 | 78 | 69 | 60 | - | - | - | - | 109 | 88 | 78 | 68 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 197,9 | 186,3 | 174,1 | - | - | - | - | - | 209,2 | 197,0 | 184,4 | - |
| Pe | - | - | - | - | 45,3 | 49,6 | 54,6 | - | - | - | - | - | 46,1 | 50,3 | 55,2 | - |
| EER | - | - | - | - | 4,37 | 3,76 | 3,19 | - | - | - | - | - | 4,54 | 3,92 | 3,34 | - |
| Qu | - | - | - | - | 34377 | 32330 | 30202 | - | - | - | - | - | 36395 | 34252 | 32027 | - |
| ΔP | - | - | - | - | 99 | 88 | 76 | - | - | - | - | - | 111 | 98 | 86 | - |

**Data 14511:2018**

| | |
|---|---|
| **TA b.s.** | External air temperature with dry bulb (°C) |
| **TWu** | Temperature of System side Water Produced (°C) |
| **Glycol** | Suggested ethylene glycol percentage (%) |
| **Pc** | Cooling capacity [kW] |
| **Pe** | Input power (kW) |
| **Qu** | System side Water flow rate [l/h] |
| **ΔP** | Pressure drop to the exchanger (kPa) |
| - | Conditions outside the operating range |

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN COOLING MODE - VERSION A

= DCPX accessory


**0704 A**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | 29 | - | - |
| Pc | 126,5 | 124,4 | 118,6 | 108,3 | 94,7 | - | - | - | 136,8 | 134,5 | 128,2 | 117,2 | 102,9 | 94,8 | - | - |
| Pe | 24,2 | 26,6 | 31,5 | 37,6 | 45,7 | - | - | - | 24,4 | 26,9 | 31,8 | 37,9 | 46,1 | 51,0 | - | - |
| EER | 5,24 | 4,67 | 3,77 | 2,88 | 2,07 | - | - | - | 5,60 | 5,00 | 4,03 | 3,09 | 2,23 | 1,86 | - | - |
| Qu | 24448 | 24034 | 22918 | 20922 | 18286 | - | - | - | 26222 | 25779 | 24556 | 22442 | 19701 | 18136 | - | - |
| ΔP | 45 | 43 | 40 | 33 | 25 | - | - | - | 50 | 49 | 44 | 37 | 28 | 24 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 147,7 | 145,4 | 138,3 | 126,6 | 111,6 | 103,1 | - | - | 158,9 | 156,9 | 149,0 | 136,5 | 120,7 | 111,8 | 102,6 | - |
| Pe | 24,7 | 27,3 | 32,1 | 38,3 | 46,6 | 51,5 | - | - | 25,0 | 27,6 | 32,5 | 38,7 | 47,1 | 52,0 | 57,4 | - |
| EER | 5,97 | 5,33 | 4,30 | 3,30 | 2,40 | 2,00 | - | - | 6,35 | 5,68 | 4,58 | 3,52 | 2,57 | 2,15 | 1,79 | - |
| Qu | 28089 | 27545 | 26200 | 23966 | 21119 | 19503 | - | - | 30193 | 29402 | 27921 | 25557 | 22592 | 20922 | 19185 | - |
| ΔP | 56 | 54 | 49 | 41 | 32 | 27 | - | - | 65 | 59 | 54 | 45 | 35 | 30 | 25 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 170,5 | 168,9 | 160,2 | 146,8 | 130,2 | 120,9 | 111,2 | - | 182,7 | 181,5 | 171,9 | 157,6 | 140,1 | 130,3 | 120,2 | 102,2 |
| Pe | 25,4 | 28,0 | 32,9 | 39,2 | 47,6 | 52,5 | 57,9 | - | 25,9 | 28,4 | 33,3 | 39,7 | 48,1 | 53,1 | 58,5 | 69,2 |
| EER | 6,71 | 6,04 | 4,87 | 3,74 | 2,74 | 2,30 | 1,92 | - | 7,07 | 6,39 | 5,15 | 3,97 | 2,91 | 2,45 | 2,05 | 1,48 |
| Qu | 32397 | 31349 | 29720 | 27216 | 24122 | 22393 | 20593 | - | 34697 | 33388 | 31598 | 28945 | 25715 | 23921 | 22048 | 18734 |
| ΔP | 74 | 66 | 59 | 50 | 39 | 34 | 28 | - | 84 | 73 | 65 | 55 | 43 | 37 | 32 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 195,3 | 194,9 | 184,3 | 169,0 | 150,5 | 140,3 | 129,6 | 110,8 | 208,5 | 208,7 | 197,0 | 180,7 | 161,2 | 150,5 | 139,3 | 119,7 |
| Pe | 26,3 | 28,9 | 33,9 | 40,2 | 48,7 | 53,7 | 59,2 | 69,8 | 26,9 | 29,4 | 34,4 | 40,8 | 49,3 | 54,4 | 59,8 | 70,5 |
| EER | 7,42 | 6,76 | 5,44 | 4,20 | 3,09 | 2,61 | 2,19 | 1,59 | 7,76 | 7,11 | 5,73 | 4,43 | 3,27 | 2,77 | 2,33 | 1,70 |
| Qu | 37092 | 35462 | 33508 | 30700 | 27327 | 25466 | 23515 | 20096 | 39582 | 37688 | 35560 | 32584 | 29050 | 27113 | 25076 | 21539 |
| ΔP | 96 | 80 | 72 | 60 | 48 | 41 | 35 | 26 | 108 | 89 | 79 | 66 | 53 | 46 | 39 | 29 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | - | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 222,0 | 222,2 | 211,9 | 194,3 | 173,6 | 162,3 | 150,4 | 129,8 | - | 229,2 | 218,4 | 200,3 | 179,1 | **168,0** | 155,3 | 134,4 |
| Pe | 27,5 | 29,9 | 34,9 | 41,4 | 50,0 | 55,1 | 60,6 | 71,4 | - | 30,2 | 35,2 | 41,7 | 50,3 | **55,4** | 61,0 | 71,7 |
| EER | 8,08 | 7,43 | 6,06 | 4,69 | 3,47 | 2,95 | 2,48 | 1,82 | - | 7,58 | 6,20 | 4,80 | 3,56 | **3,03** | 2,55 | 1,87 |
| Qu | 42163 | 40155 | 36616 | 33551 | 29956 | 27995 | 25928 | 22370 | - | 41421 | 37769 | 34607 | 30918 | **28924** | 26794 | 23165 |
| ΔP | 122 | 101 | 81 | 68 | 54 | 47 | 40 | 30 | - | 107 | 86 | 72 | 57 | **50** | 43 | 32 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 225,0 | 206,4 | 184,7 | 172,8 | 160,3 | - | - | - | 238,6 | 218,8 | 196,0 | 183,7 | 170,6 | - |
| Pe | - | - | 35,6 | 42,0 | 50,6 | 55,7 | 61,3 | - | - | - | 36,2 | 42,7 | 51,3 | 56,4 | 62,0 | - |
| EER | - | - | 6,33 | 4,91 | 3,65 | 3,10 | 2,62 | - | - | - | 6,58 | 5,12 | 3,82 | 3,26 | 2,75 | - |
| Qu | - | - | 38944 | 35682 | 31896 | 29843 | 27675 | - | - | - | 41357 | 37888 | 33903 | 31752 | 29481 | - |
| ΔP | - | - | 91 | 76 | 61 | 53 | 46 | - | - | - | 103 | 86 | 69 | 61 | 52 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | - | 231,7 | 207,7 | 194,9 | 181,3 | - | - | - | - | 244,9 | 219,8 | 206,3 | 192,2 | - |
| Pe | - | - | - | 43,4 | 52,0 | 57,1 | 62,7 | - | - | - | - | 44,2 | 52,8 | 57,9 | 63,5 | - |
| EER | - | - | - | 5,33 | 3,99 | 3,41 | 2,89 | - | - | - | - | 5,54 | 4,16 | 3,56 | 3,03 | - |
| Qu | - | - | - | 40171 | 35976 | 33723 | 31351 | - | - | - | - | 42531 | 38117 | 35757 | 33285 | - |
| ΔP | - | - | - | 97 | 78 | 68 | 59 | - | - | - | - | 109 | 87 | 77 | 67 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 232,2 | 218,1 | 203,5 | - | - | - | - | - | 245,0 | 230,3 | 215,1 | - |
| Pe | - | - | - | - | 53,7 | 58,8 | 64,3 | - | - | - | - | - | 54,5 | 59,6 | 65,2 | - |
| EER | - | - | - | - | 4,33 | 3,71 | 3,16 | - | - | - | - | - | 4,49 | 3,86 | 3,30 | - |
| Qu | - | - | - | - | 40326 | 37854 | 35285 | - | - | - | - | - | 42603 | 40015 | 37354 | - |
| ΔP | - | - | - | - | 98 | 86 | 75 | - | - | - | - | - | 109 | 96 | 84 | - |

**Data 14511:2018**

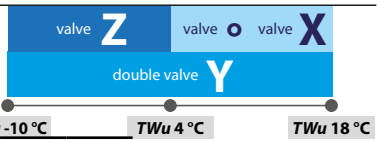
| | |
|---|---|
| **TA b.s.** | External air temperature with dry bulb (°C) |
| **TWu** | Temperature of System side Water Produced (°C) |
| **Glycol** | Suggested ethylene glycol percentage (%) |
| **Pc** | Cooling capacity [kW] |
| **Pe** | Input power (kW) |
| **Qu** | System side Water flow rate [l/h] |
| **ΔP** | Pressure drop to the exchanger (kPa) |
| - | Conditions outside the operating range |

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN COOLING MODE - VERSION A

= DCPX accessory




**0754 A**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 142,9 | 140,1 | 133,5 | 122,2 | 107,6 | - | - | - | 154,0 | 151,2 | 144,2 | 132,0 | 116,7 | - | - | - |
| Pe | 25,6 | 28,7 | 34,7 | 41,5 | 50,4 | - | - | - | 26,1 | 29,3 | 35,2 | 42,0 | 51,0 | - | - | - |
| EER | 5,59 | 4,88 | 3,85 | 2,95 | 2,13 | - | - | - | 5,90 | 5,17 | 4,10 | 3,14 | 2,29 | - | - | - |
| Qu | 27623 | 27079 | 25800 | 23592 | 20769 | - | - | - | 29521 | 28985 | 27622 | 25285 | 22333 | - | - | - |
| ΔP | 48 | 47 | 42 | 35 | 27 | - | - | - | 54 | 52 | 47 | 39 | 31 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 165,9 | 163,2 | 155,5 | 142,6 | 126,4 | 117,3 | - | - | 178,0 | 175,8 | 167,5 | 153,6 | 136,5 | 127,0 | 117,3 | - |
| Pe | 26,7 | 29,8 | 35,7 | 42,6 | 51,7 | 57,1 | - | - | 27,3 | 30,4 | 36,3 | 43,3 | 52,4 | 57,8 | 63,9 | - |
| EER | 6,22 | 5,47 | 4,36 | 3,34 | 2,44 | 2,05 | - | - | 6,52 | 5,78 | 4,62 | 3,55 | 2,60 | 2,19 | 1,84 | - |
| Qu | 31534 | 30916 | 29457 | 26990 | 23905 | 22184 | - | - | 33822 | 32950 | 31379 | 28773 | 25546 | 23754 | 21934 | - |
| ΔP | 60 | 57 | 52 | 43 | 34 | 29 | - | - | 68 | 63 | 57 | 48 | 38 | 33 | 28 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 190,7 | 189,1 | 180,0 | 165,2 | 147,1 | 137,1 | 126,9 | - | 204,0 | 203,0 | 193,1 | 177,4 | 158,2 | 147,6 | 136,9 | 122,4 |
| Pe | 27,9 | 31,1 | 36,9 | 44,0 | 53,2 | 58,6 | 64,7 | - | 28,7 | 31,8 | 37,6 | 44,7 | 54,0 | 59,5 | 65,5 | 73,9 |
| EER | 6,82 | 6,08 | 4,88 | 3,76 | 2,77 | 2,34 | 1,96 | - | 7,12 | 6,39 | 5,13 | 3,97 | 2,93 | 2,48 | 2,09 | 1,66 |
| Qu | 36231 | 35088 | 33391 | 30637 | 27258 | 25389 | 23499 | - | 38760 | 37332 | 35493 | 32582 | 29043 | 27094 | 25123 | 22443 |
| ΔP | 78 | 70 | 63 | 53 | 42 | 36 | 31 | - | 88 | 77 | 70 | 59 | 47 | 41 | 35 | 28 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 218,0 | 217,7 | 206,9 | 190,2 | 169,9 | 158,8 | 147,5 | 132,1 | 232,6 | 233,0 | 221,1 | 203,3 | 182,0 | 170,2 | 158,3 | 142,1 |
| Pe | 29,5 | 32,5 | 38,4 | 45,5 | 54,8 | 60,4 | 66,5 | 74,8 | 30,3 | 33,3 | 39,2 | 46,3 | 55,7 | 61,3 | 67,4 | 75,8 |
| EER | 7,40 | 6,69 | 5,39 | 4,18 | 3,10 | 2,63 | 2,22 | 1,77 | 7,67 | 6,99 | 5,65 | 4,39 | 3,27 | 2,78 | 2,35 | 1,88 |
| Qu | 41408 | 39621 | 37629 | 34558 | 30855 | 28821 | 26766 | 23964 | 44173 | 42085 | 39924 | 36677 | 32795 | 30669 | 28518 | 25587 |
| ΔP | 100 | 84 | 76 | 64 | 51 | 45 | 39 | 31 | 114 | 93 | 84 | 71 | 57 | 50 | 43 | 35 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | - | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 247,7 | 248,0 | 237,8 | 218,7 | 195,9 | 183,5 | 170,9 | 153,7 | - | 255,7 | 245,0 | 225,4 | 202,1 | **190,0** | 176,4 | 158,9 |
| Pe | 31,2 | 34,2 | 40,0 | 47,2 | 56,7 | 62,3 | 68,5 | 77,0 | - | 34,7 | 40,4 | 47,7 | 57,2 | **62,8** | 68,9 | 77,5 |
| EER | 7,93 | 7,25 | 5,95 | 4,63 | 3,45 | 2,94 | 2,50 | 2,00 | - | 7,38 | 6,06 | 4,73 | 3,53 | **3,03** | 2,56 | 2,05 |
| Qu | 47056 | 44823 | 41098 | 37765 | 33811 | 31653 | 29463 | 26492 | - | 46231 | 42387 | 38953 | 34895 | **32697** | 30435 | 27394 |
| ΔP | 128 | 106 | 86 | 72 | 58 | 51 | 44 | 36 | - | 113 | 91 | 77 | 62 | **54** | 47 | 38 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 252,4 | 232,2 | 208,3 | 195,3 | 182,0 | - | - | - | 267,6 | 246,2 | 221,1 | 207,5 | 193,6 | - |
| Pe | - | - | 40,9 | 48,2 | 57,7 | 63,2 | 69,4 | - | - | - | 41,9 | 49,2 | 58,7 | 64,3 | 70,3 | - |
| EER | - | - | 6,17 | 4,82 | 3,61 | 3,09 | 2,62 | - | - | - | 6,39 | 5,01 | 3,77 | 3,23 | 2,75 | - |
| Qu | - | - | 43698 | 40162 | 35997 | 33731 | 31423 | - | - | - | 46389 | 42641 | 38257 | 35878 | 33448 | - |
| ΔP | - | - | 97 | 82 | 66 | 58 | 50 | - | - | - | 109 | 92 | 74 | 65 | 57 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 260,6 | 234,3 | 220,1 | 205,4 | - | - | - | - | - | 247,9 | 233,0 | 217,6 | - |
| Pe | - | - | - | 50,2 | 59,7 | 65,3 | 71,4 | - | - | - | - | - | 60,8 | 66,4 | 72,5 | - |
| EER | - | - | - | 5,19 | 3,92 | 3,37 | 2,88 | - | - | - | - | - | 4,07 | 3,51 | 3,00 | - |
| Qu | - | - | - | 45203 | 40590 | 38095 | 35536 | - | - | - | - | - | 42997 | 40381 | 37688 | - |
| ΔP | - | - | - | 103 | 83 | 73 | 64 | - | - | - | - | - | 94 | 83 | 72 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | - | 0 | 0 | - |
| Pc | - | - | - | - | 261,8 | 246,2 | 230,1 | - | - | - | - | - | - | 259,8 | 242,9 | - |
| Pe | - | - | - | - | 62,0 | 67,6 | 73,7 | - | - | - | - | - | - | 68,8 | 75,0 | - |
| EER | - | - | - | - | 4,22 | 3,64 | 3,12 | - | - | - | - | - | - | 3,77 | 3,24 | - |
| Qu | - | - | - | - | 45478 | 42735 | 39904 | - | - | - | - | - | - | 45159 | 42184 | - |
| ΔP | - | - | - | - | 105 | 92 | 81 | - | - | - | - | - | - | 103 | 90 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## YIELDS AND ABSORPTION DIFFERENT THAN NOMINAL

### OPERATION IN COOLING MODE - VERSION E

■ = DCPX accessory

valve Z | valve O valve X | double valve Y

*TWu* -10 °C | *TWu* 4 °C | *TWu* 18 °C

**0282 E**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 44,0 | 43,3 | 40,5 | 36,2 | 31,2 | - | - | - | 47,2 | 46,5 | 43,6 | 39,2 | 34,0 | - | - | - |
| Pe | 6,3 | 7,4 | 9,4 | 11,7 | 14,7 | - | - | - | 6,4 | 7,6 | 9,6 | 11,8 | 14,9 | - | - | - |
| EER | 7,03 | 5,85 | 4,30 | 3,10 | 2,13 | - | - | - | 7,33 | 6,14 | 4,56 | 3,31 | 2,29 | - | - | - |
| Qu | 8501 | 8354 | 7815 | 6993 | 6026 | - | - | - | 9034 | 8897 | 8346 | 7497 | 6495 | - | - | - |
| ΔP | 23 | 22 | 19 | 15 | 11 | - | - | - | 25 | 24 | 21 | 17 | 13 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 50,6 | 49,9 | 46,9 | 42,3 | 36,9 | 33,9 | - | - | 54,1 | 53,6 | 50,4 | 45,6 | 39,9 | 36,7 | 33,5 | - |
| Pe | 6,6 | 7,8 | 9,7 | 12,0 | 15,0 | 16,8 | - | - | 6,8 | 8,0 | 9,9 | 12,2 | 15,2 | 17,0 | 19,1 | - |
| EER | 7,63 | 6,43 | 4,82 | 3,52 | 2,45 | 2,01 | - | - | 7,90 | 6,72 | 5,07 | 3,73 | 2,62 | 2,16 | 1,75 | - |
| Qu | 9607 | 9452 | 8878 | 8004 | 6967 | 6399 | - | - | 10265 | 10041 | 9434 | 8532 | 7458 | 6867 | 6259 | - |
| ΔP | 27 | 26 | 23 | 19 | 14 | 12 | - | - | 31 | 29 | 25 | 21 | 16 | 13 | 11 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 57,8 | 57,5 | 54,0 | 49,0 | 43,0 | 39,7 | 36,3 | - | 61,6 | 61,6 | 57,8 | 52,6 | 46,3 | 42,9 | 39,3 | 34,5 |
| Pe | 7,1 | 8,2 | 10,2 | 12,4 | 15,5 | 17,3 | 19,3 | - | 7,3 | 8,5 | 10,4 | 12,7 | 15,7 | 17,5 | 19,6 | 22,4 |
| EER | 8,16 | 7,00 | 5,32 | 3,94 | 2,78 | 2,30 | 1,88 | - | 8,40 | 7,28 | 5,56 | 4,15 | 2,95 | 2,45 | 2,01 | 1,54 |
| Qu | 10959 | 10663 | 10013 | 9081 | 7968 | 7355 | 6717 | - | 11687 | 11314 | 10617 | 9654 | 8499 | 7861 | 7195 | 6326 |
| ΔP | 35 | 32 | 28 | 23 | 18 | 15 | 13 | - | 40 | 35 | 31 | 25 | 20 | 17 | 14 | 11 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 65,7 | 65,9 | 61,8 | 56,4 | 49,8 | 46,2 | 42,4 | 37,3 | 69,9 | 70,3 | 65,9 | 60,2 | 53,4 | 49,6 | 45,6 | 40,3 |
| Pe | 7,6 | 8,7 | 10,7 | 12,9 | 16,0 | 17,8 | 19,8 | 22,7 | 7,9 | 9,0 | 10,9 | 13,2 | 16,3 | 18,1 | 20,1 | 23,0 |
| EER | 8,62 | 7,54 | 5,80 | 4,36 | 3,12 | 2,60 | 2,14 | 1,65 | 8,82 | 7,78 | 6,03 | 4,56 | 3,28 | 2,74 | 2,27 | 1,75 |
| Qu | 12446 | 11974 | 11230 | 10233 | 9037 | 8375 | 7679 | 6767 | 13234 | 12680 | 11887 | 10854 | 9611 | 8924 | 8196 | 7239 |
| ΔP | 45 | 38 | 33 | 28 | 22 | 19 | 16 | 12 | 50 | 42 | 37 | 31 | 24 | 21 | 17 | 14 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 74,2 | 74,6 | 70,7 | 64,7 | 57,5 | 53,5 | 49,2 | 43,6 | 76,4 | 76,8 | 72,8 | 66,7 | 59,3 | **55,4** | 50,9 | 45,1 |
| Pe | 8,2 | 9,3 | 11,2 | 13,5 | 16,6 | 18,4 | 20,4 | 23,3 | 8,4 | 9,5 | 11,4 | 13,7 | 16,7 | **18,5** | 20,6 | 23,4 |
| EER | 9,00 | 7,98 | 6,30 | 4,79 | 3,47 | 2,91 | 2,41 | 1,87 | 9,07 | 8,08 | 6,40 | 4,88 | 3,55 | **3,00** | 2,47 | 1,92 |
| Qu | 14047 | 13460 | 12209 | 11169 | 9915 | 9221 | 8482 | 7509 | 14462 | 13857 | 12578 | 11516 | 10236 | **9530** | 8769 | 7772 |
| ΔP | 56 | 47 | 37 | 31 | 24 | 21 | 18 | 14 | 59 | 50 | 39 | 33 | 26 | **23** | 19 | 15 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 79,1 | 75,0 | 68,7 | 61,2 | 57,0 | 52,5 | - | - | - | 79,3 | 72,8 | 65,0 | 60,6 | 56,0 | - |
| Pe | - | 9,7 | 11,5 | 13,8 | 16,9 | 18,7 | 20,7 | - | - | - | 11,9 | 14,2 | 17,2 | 19,0 | 21,0 | - |
| EER | - | 8,17 | 6,49 | 4,97 | 3,62 | 3,05 | 2,54 | - | - | - | 6,68 | 5,14 | 3,78 | 3,19 | 2,66 | - |
| Qu | - | 14259 | 12953 | 11869 | 10561 | 9835 | 9062 | - | - | - | 13723 | 12592 | 11228 | 10471 | 9661 | - |
| ΔP | - | 53 | 42 | 35 | 28 | 24 | 20 | - | - | - | 47 | 39 | 31 | 27 | 23 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 83,8 | 77,1 | 68,9 | 64,4 | 59,5 | - | - | - | - | 81,4 | 72,9 | 68,2 | 63,1 | - |
| Pe | - | - | 12,2 | 14,5 | 17,6 | 19,4 | 21,4 | - | - | - | - | 14,9 | 17,9 | 19,7 | 21,7 | - |
| EER | - | - | 6,85 | 5,31 | 3,93 | 3,32 | 2,78 | - | - | - | - | 5,47 | 4,07 | 3,46 | 2,91 | - |
| Qu | - | - | 14517 | 13338 | 11917 | 11127 | 10279 | - | - | - | - | 14108 | 12627 | 11803 | 10918 | - |
| ΔP | - | - | 52 | 44 | 35 | 31 | 26 | - | - | - | - | 50 | 40 | 35 | 30 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 77,1 | 72,2 | 66,9 | - | - | - | - | - | 81,3 | 76,2 | 70,7 | - |
| Pe | - | - | - | - | 18,3 | 20,1 | 22,1 | - | - | - | - | - | 18,7 | 20,5 | 22,5 | - |
| EER | - | - | - | - | 4,21 | 3,59 | 3,02 | - | - | - | - | - | 4,35 | 3,72 | 3,14 | - |
| Qu | - | - | - | - | 13358 | 12500 | 11577 | - | - | - | - | - | 14112 | 13217 | 12256 | - |
| ΔP | - | - | - | - | 44 | 39 | 33 | - | - | - | - | - | 50 | 43 | 37 | - |

**Data 14511:2018**

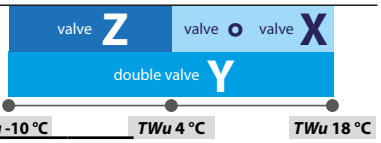
**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
**-** Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN COOLING MODE - VERSION E

= DCPX accessory




**0302 E**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | -10 | | | | | | | | -8 | | | | |
| Glycol | 31 | 31 | 31 | 31 | - | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 49,7 | 48,1 | 45,0 | 40,5 | - | - | - | - | 53,5 | 51,8 | 48,6 | 43,8 | 38,2 | - | - | - |
| Pe | 7,9 | 8,9 | 11,0 | 13,5 | - | - | - | - | 8,1 | 9,0 | 11,1 | 13,7 | 17,0 | - | - | - |
| EER | 6,28 | 5,43 | 4,11 | 2,99 | - | - | - | - | 6,59 | 5,73 | 4,36 | 3,19 | 2,25 | - | - | - |
| Qu | 9596 | 9289 | 8687 | 7821 | - | - | - | - | 10245 | 9932 | 9300 | 8389 | 7308 | - | - | - |
| ΔP | 29 | 27 | 24 | 19 | - | - | - | - | 32 | 30 | 26 | 21 | 16 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | -6 | | | | | | | | -4 | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 57,5 | 55,9 | 52,4 | 47,4 | 41,4 | 38,1 | - | - | 61,6 | 60,1 | 56,4 | 51,1 | 44,8 | 41,3 | - | - |
| Pe | 8,3 | 9,3 | 11,3 | 13,9 | 17,2 | 19,2 | - | - | 8,6 | 9,5 | 11,5 | 14,1 | 17,5 | 19,5 | - | - |
| EER | 6,90 | 6,03 | 4,63 | 3,40 | 2,40 | 1,98 | - | - | 7,18 | 6,33 | 4,89 | 3,61 | 2,56 | 2,12 | - | - |
| Qu | 10927 | 10582 | 9915 | 8960 | 7830 | 7209 | - | - | 11700 | 11264 | 10558 | 9557 | 8375 | 7728 | - | - |
| ΔP | 35 | 33 | 29 | 24 | 18 | 15 | - | - | 40 | 36 | 32 | 26 | 20 | 17 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | -2 | | | | | | | | 0 | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 65,9 | 64,6 | 60,6 | 54,9 | 48,3 | 44,7 | 40,9 | - | 70,4 | 69,2 | 64,9 | 59,0 | 52,0 | 48,1 | 44,2 | 40,8 |
| Pe | 8,8 | 9,8 | 11,8 | 14,4 | 17,7 | 19,7 | 22,1 | - | 9,1 | 10,0 | 12,0 | 14,6 | 18,0 | 20,0 | 22,3 | 24,4 |
| EER | 7,45 | 6,62 | 5,15 | 3,83 | 2,73 | 2,26 | 1,86 | - | 7,69 | 6,90 | 5,41 | 4,04 | 2,89 | 2,41 | 1,98 | 1,67 |
| Qu | 12509 | 11980 | 11230 | 10179 | 8944 | 8268 | 7575 | - | 13354 | 12727 | 11929 | 10827 | 9538 | 8832 | 8107 | 7476 |
| ΔP | 46 | 40 | 35 | 29 | 22 | 19 | 16 | - | 52 | 44 | 39 | 32 | 25 | 21 | 18 | 15 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 2 | | | | | | | | 4 | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 75,0 | 74,2 | 69,5 | 63,2 | 55,9 | 51,8 | 47,7 | 44,0 | 79,9 | 79,3 | 74,3 | 67,6 | 59,9 | 55,6 | 51,2 | 47,4 |
| Pe | 9,5 | 10,3 | 12,3 | 14,8 | 18,2 | 20,3 | 22,6 | 24,7 | 9,8 | 10,7 | 12,5 | 15,1 | 18,5 | 20,6 | 22,9 | 25,1 |
| EER | 7,92 | 7,17 | 5,67 | 4,26 | 3,06 | 2,55 | 2,11 | 1,78 | 8,13 | 7,42 | 5,92 | 4,47 | 3,23 | 2,70 | 2,23 | 1,89 |
| Qu | 14232 | 13487 | 12639 | 11486 | 10140 | 9405 | 8648 | 7986 | 15144 | 14303 | 13400 | 12192 | 10785 | 10018 | 9225 | 8532 |
| ΔP | 58 | 48 | 42 | 35 | 27 | 23 | 20 | 17 | 66 | 53 | 47 | 39 | 30 | 26 | 22 | 19 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 6 | | | | | | | | 7 | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 84,9 | 84,3 | 79,8 | 72,7 | 64,5 | 60,0 | 55,4 | 51,3 | 87,5 | 86,8 | 82,2 | 75,0 | 66,6 | **62,1** | 57,2 | 53,0 |
| Pe | 10,2 | 11,0 | 12,9 | 15,4 | 18,8 | 20,9 | 23,3 | 25,4 | 10,4 | 11,2 | 13,0 | 15,6 | 19,0 | **21,0** | 23,5 | 25,6 |
| EER | 8,32 | 7,63 | 6,21 | 4,72 | 3,42 | 2,87 | 2,38 | 2,02 | 8,40 | 7,73 | 6,32 | 4,82 | 3,51 | **2,96** | 2,44 | 2,07 |
| Qu | 16090 | 15208 | 13784 | 12554 | 11127 | 10350 | 9543 | 8839 | 16575 | 15673 | 14210 | 12949 | 11487 | **10696** | 9865 | 9143 |
| ΔP | 74 | 60 | 47 | 39 | 31 | 27 | 23 | 19 | 78 | 64 | 50 | 42 | 33 | **29** | 24 | 21 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 8 | | | | | | | | 10 | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 89,4 | 84,7 | 77,3 | 68,6 | 64,0 | 59,1 | - | - | - | 89,7 | 81,9 | 72,9 | 68,0 | 62,9 | - |
| Pe | - | 11,4 | 13,2 | 15,7 | 19,1 | 21,2 | 23,6 | - | - | - | 13,6 | 16,1 | 19,5 | 21,6 | 23,9 | - |
| EER | - | 7,82 | 6,42 | 4,91 | 3,59 | 3,01 | 2,50 | - | - | - | 6,62 | 5,10 | 3,75 | 3,15 | 2,63 | - |
| Qu | - | 16144 | 14644 | 13350 | 11853 | 11039 | 10192 | - | - | - | 15532 | 14172 | 12604 | 11751 | 10863 | - |
| ΔP | - | 67 | 53 | 44 | 35 | 30 | 26 | - | - | - | 60 | 50 | 40 | 34 | 29 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 12 | | | | | | | | 14 | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 94,9 | 86,7 | 77,3 | 72,2 | 66,8 | - | - | - | - | 91,7 | 81,8 | 76,5 | 70,9 | - |
| Pe | - | - | 14,0 | 16,4 | 19,8 | 21,9 | 24,3 | - | - | - | - | 16,8 | 20,2 | 22,3 | 24,7 | - |
| EER | - | - | 6,80 | 5,28 | 3,90 | 3,30 | 2,75 | - | - | - | - | 5,45 | 4,06 | 3,43 | 2,87 | - |
| Qu | - | - | 16449 | 15022 | 13379 | 12487 | 11557 | - | - | - | - | 15897 | 14178 | 13247 | 12273 | - |
| ΔP | - | - | 67 | 56 | 45 | 39 | 33 | - | - | - | - | 63 | 50 | 44 | 38 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 16 | | | | | | | | 18 | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 96,8 | 86,5 | 80,9 | 75,1 | - | - | - | - | - | 91,3 | 85,5 | 79,4 | - |
| Pe | - | - | - | 17,2 | 20,6 | 22,7 | 25,1 | - | - | - | - | - | 21,0 | 23,1 | 25,5 | - |
| EER | - | - | - | 5,61 | 4,20 | 3,57 | 3,00 | - | - | - | - | - | 4,34 | 3,70 | 3,11 | - |
| Qu | - | - | - | 16798 | 15002 | 14029 | 13012 | - | - | - | - | - | 15849 | 14834 | 13774 | - |
| ΔP | - | - | - | 70 | 56 | 49 | 42 | - | - | - | - | - | 63 | 55 | 47 | - |

**Data 14511:2018**

| | |
|---|---|
| **TA b.s.** | External air temperature with dry bulb (°C) |
| **TWu** | Temperature of System side Water Produced (°C) |
| **Glycol** | Suggested ethylene glycol percentage (%) |
| **Pc** | Cooling capacity [kW] |
| **Pe** | Input power (kW) |
| **Qu** | System side Water flow rate [l/h] |
| **ΔP** | Pressure drop to the exchanger (kPa) |
| - | Conditions outside the operating range |

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve O | valve X
double valve Y
TWu -10 °C | TWu 4 °C | TWu 18 °C

## OPERATION IN COOLING MODE - VERSION E

= DCPX accessory

**0332 E**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 55,0 | 53,2 | 50,1 | 45,5 | 39,7 | - | - | - | 59,4 | 57,6 | 54,2 | 49,2 | 43,1 | - | - | - |
| Pe | 9,7 | 10,5 | 12,7 | 15,6 | 19,2 | - | - | - | 9,9 | 10,7 | 12,9 | 15,7 | 19,4 | - | - | - |
| EER | 5,66 | 5,06 | 3,95 | 2,92 | 2,07 | - | - | - | 5,99 | 5,37 | 4,22 | 3,13 | 2,22 | - | - | - |
| Qu | 10616 | 10281 | 9681 | 8775 | 7663 | - | - | - | 11376 | 11029 | 10381 | 9413 | 8240 | - | - | - |
| ΔP | 25 | 24 | 21 | 17 | 13 | - | - | - | 28 | 26 | 23 | 19 | 15 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 64,1 | 62,3 | 58,6 | 53,2 | 46,7 | 43,1 | - | - | 68,9 | 67,2 | 63,1 | 57,3 | 50,4 | 46,6 | 42,8 | - |
| Pe | 10,2 | 10,9 | 13,0 | 15,9 | 19,7 | 21,9 | - | - | 10,4 | 11,2 | 13,2 | 16,1 | 19,9 | 22,2 | 24,7 | - |
| EER | 6,31 | 5,69 | 4,49 | 3,34 | 2,37 | 1,97 | - | - | 6,61 | 6,00 | 4,77 | 3,55 | 2,53 | 2,10 | 1,73 | - |
| Qu | 12177 | 11786 | 11085 | 10056 | 8820 | 8141 | - | - | 13079 | 12582 | 11821 | 10730 | 9430 | 8718 | 7994 | - |
| ΔP | 31 | 29 | 26 | 21 | 16 | 14 | - | - | 36 | 32 | 28 | 23 | 18 | 15 | 13 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 73,9 | 72,4 | 67,9 | 61,7 | 54,4 | 50,4 | 46,3 | - | 79,1 | 77,8 | 72,9 | 66,3 | 58,5 | 54,3 | 50,0 | 44,2 |
| Pe | 10,7 | 11,5 | 13,5 | 16,3 | 20,1 | 22,4 | 25,0 | - | 11,0 | 11,8 | 13,7 | 16,6 | 20,4 | 22,7 | 25,3 | 28,9 |
| EER | 6,89 | 6,31 | 5,05 | 3,78 | 2,70 | 2,25 | 1,85 | - | 7,17 | 6,60 | 5,32 | 4,00 | 2,87 | 2,39 | 1,97 | 1,53 |
| Qu | 14023 | 13415 | 12589 | 11432 | 10068 | 9323 | 8566 | - | 15007 | 14286 | 13391 | 12167 | 10735 | 9954 | 9163 | 8104 |
| ΔP | 41 | 36 | 31 | 26 | 20 | 17 | 15 | - | 47 | 40 | 35 | 29 | 22 | 19 | 16 | 13 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 84,6 | 83,5 | 78,2 | 71,1 | 62,9 | 58,4 | 53,9 | 47,8 | 90,2 | 89,4 | 83,6 | 76,1 | 67,4 | 62,7 | 57,9 | 51,5 |
| Pe | 11,4 | 12,1 | 14,0 | 16,8 | 20,7 | 23,0 | 25,7 | 29,2 | 11,8 | 12,5 | 14,2 | 17,1 | 20,9 | 23,3 | 26,0 | 29,6 |
| EER | 7,42 | 6,89 | 5,60 | 4,23 | 3,04 | 2,54 | 2,10 | 1,63 | 7,66 | 7,16 | 5,87 | 4,46 | 3,22 | 2,69 | 2,23 | 1,74 |
| Qu | 16030 | 15171 | 14204 | 12913 | 11412 | 10597 | 9771 | 8665 | 17093 | 16119 | 15076 | 13712 | 12138 | 11288 | 10421 | 9263 |
| ΔP | 53 | 44 | 38 | 32 | 25 | 21 | 18 | 14 | 60 | 48 | 42 | 35 | 27 | 24 | 20 | 16 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 96,1 | 95,2 | 89,9 | 81,9 | 72,6 | 67,7 | 62,6 | 55,8 | 99,0 | 98,2 | 92,7 | 84,4 | 75,0 | **70,0** | 64,6 | 57,7 |
| Pe | 12,2 | 12,9 | 14,6 | 17,4 | 21,3 | 23,6 | 26,3 | 30,0 | 12,4 | 13,1 | 14,7 | 17,5 | 21,4 | **23,7** | 26,5 | 30,2 |
| EER | 7,87 | 7,40 | 6,17 | 4,71 | 3,42 | 2,86 | 2,38 | 1,86 | 7,97 | 7,51 | 6,29 | 4,82 | 3,50 | **2,95** | 2,44 | 1,91 |
| Qu | 18192 | 17168 | 15523 | 14127 | 12525 | 11661 | 10780 | 9606 | 18755 | 17705 | 16011 | 14574 | 12931 | **12052** | 11143 | 9941 |
| ΔP | 67 | 55 | 43 | 36 | 28 | 24 | 21 | 16 | 72 | 58 | 46 | 38 | 30 | **26** | 22 | 18 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 101,2 | 95,5 | 87,0 | 77,3 | 72,1 | 66,7 | - | - | - | 101,3 | 92,3 | 82,2 | 76,7 | 71,1 | - |
| Pe | - | 13,3 | 14,9 | 17,7 | 21,5 | 23,9 | 26,6 | - | - | - | 15,3 | 18,0 | 21,8 | 24,2 | 27,0 | - |
| EER | - | 7,61 | 6,41 | 4,92 | 3,59 | 3,01 | 2,51 | - | - | - | 6,63 | 5,13 | 3,76 | 3,16 | 2,64 | - |
| Qu | - | 18250 | 16507 | 15029 | 13345 | 12439 | 11512 | - | - | - | 17524 | 15963 | 14194 | 13244 | 12270 | - |
| ΔP | - | 62 | 49 | 40 | 32 | 28 | 24 | - | - | - | 55 | 45 | 36 | 31 | 27 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 107,3 | 97,8 | 87,1 | 81,4 | 75,5 | - | - | - | - | 103,4 | 92,3 | 86,3 | 80,2 | - |
| Pe | - | - | 15,7 | 18,4 | 22,2 | 24,6 | 27,3 | - | - | - | - | 18,7 | 22,5 | 24,9 | 27,7 | - |
| EER | - | - | 6,83 | 5,33 | 3,93 | 3,31 | 2,77 | - | - | - | - | 5,52 | 4,09 | 3,46 | 2,90 | - |
| Qu | - | - | 18574 | 16928 | 15071 | 14077 | 13055 | - | - | - | - | 17923 | 15977 | 14937 | 13867 | - |
| ΔP | - | - | 61 | 51 | 40 | 35 | 30 | - | - | - | - | 57 | 45 | 40 | 34 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 109,2 | 97,6 | 91,3 | 84,9 | - | - | - | - | - | 103,0 | 96,5 | 89,8 | - |
| Pe | - | - | - | 19,2 | 22,9 | 25,3 | 28,0 | - | - | - | - | - | 23,4 | 25,7 | 28,5 | - |
| EER | - | - | - | 5,70 | 4,26 | 3,61 | 3,03 | - | - | - | - | - | 4,41 | 3,75 | 3,15 | - |
| Qu | - | - | - | 18949 | 16910 | 15824 | 14705 | - | - | - | - | - | 17872 | 16738 | 15569 | - |
| ΔP | - | - | - | 64 | 51 | 45 | 38 | - | - | - | - | - | 57 | 50 | 43 | - |

**Data 14511:2018**

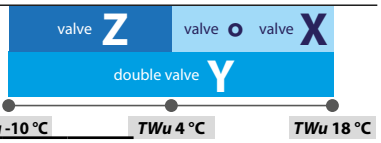
| | |
|---|---|
| **TA b.s.** | External air temperature with dry bulb (°C) |
| **TWu** | Temperature of System side Water Produced (°C) |
| **Glycol** | Suggested ethylene glycol percentage (%) |
| **Pc** | Cooling capacity [kW] |
| **Pe** | Input power (kW) |
| **Qu** | System side Water flow rate [l/h] |
| **ΔP** | Pressure drop to the exchanger (kPa) |
| - | Conditions outside the operating range |

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN COOLING MODE - VERSION E

■ = DCPX accessory




**0352 E**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | - | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 65,4 | 63,0 | 59,2 | 53,4 | - | - | - | - | 70,7 | 68,2 | 64,0 | 57,8 | 50,2 | - | - | - |
| Pe | 11,1 | 12,5 | 15,1 | 18,3 | - | - | - | - | 11,3 | 12,7 | 15,3 | 18,5 | 22,9 | - | - | - |
| EER | 5,88 | 5,03 | 3,92 | 2,92 | - | - | - | - | 6,24 | 5,35 | 4,18 | 3,12 | 2,19 | - | - | - |
| Qu | 12647 | 12177 | 11431 | 10311 | - | - | - | - | 13554 | 13068 | 12256 | 11065 | 9601 | - | - | - |
| ΔP | 36 | 33 | 29 | 24 | - | - | - | - | 40 | 37 | 33 | 27 | 20 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 76,3 | 73,7 | 69,1 | 62,4 | 54,4 | 49,9 | - | - | 82,0 | 79,6 | 74,4 | 67,3 | 58,8 | 54,1 | - | - |
| Pe | 11,5 | 13,0 | 15,5 | 18,8 | 23,2 | 25,8 | - | - | 11,8 | 13,2 | 15,8 | 19,1 | 23,5 | 26,1 | - | - |
| EER | 6,61 | 5,69 | 4,45 | 3,32 | 2,35 | 1,94 | - | - | 6,97 | 6,03 | 4,72 | 3,53 | 2,50 | 2,07 | - | - |
| Qu | 14508 | 13969 | 13082 | 11820 | 10292 | 9439 | - | - | 15585 | 14916 | 13944 | 12607 | 11011 | 10125 | - | - |
| ΔP | 45 | 41 | 36 | 29 | 22 | 19 | - | - | 51 | 45 | 40 | 32 | 25 | 21 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 88,0 | 85,7 | 80,0 | 72,4 | 63,5 | 58,5 | 53,4 | - | 94,2 | 92,1 | 85,8 | 77,7 | 68,3 | 63,1 | 57,7 | 53,1 |
| Pe | 12,0 | 13,4 | 16,0 | 19,4 | 23,8 | 26,5 | 29,4 | - | 12,3 | 13,7 | 16,3 | 19,7 | 24,2 | 26,9 | 29,8 | 32,4 |
| EER | 7,32 | 6,38 | 4,99 | 3,73 | 2,66 | 2,21 | 1,82 | - | 7,67 | 6,72 | 5,25 | 3,94 | 2,82 | 2,35 | 1,94 | 1,64 |
| Qu | 16711 | 15906 | 14843 | 13426 | 11757 | 10838 | 9894 | - | 17884 | 16941 | 15779 | 14277 | 12531 | 11576 | 10592 | 9744 |
| ΔP | 58 | 50 | 44 | 36 | 27 | 23 | 19 | - | 66 | 56 | 48 | 40 | 31 | 26 | 22 | 18 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 100,6 | 98,9 | 92,0 | 83,3 | 73,3 | 67,9 | 62,3 | 57,4 | 107,4 | 105,9 | 98,3 | 89,1 | 78,5 | 72,8 | 66,9 | 61,8 |
| Pe | 12,6 | 14,0 | 16,7 | 20,1 | 24,6 | 27,3 | 30,2 | 32,9 | 12,9 | 14,3 | 17,0 | 20,5 | 25,0 | 27,7 | 30,6 | 33,3 |
| EER | 8,01 | 7,06 | 5,52 | 4,15 | 2,98 | 2,49 | 2,06 | 1,75 | 8,33 | 7,40 | 5,78 | 4,35 | 3,14 | 2,63 | 2,18 | 1,86 |
| Qu | 19106 | 17993 | 16729 | 15140 | 13313 | 12321 | 11295 | 10418 | 20372 | 19118 | 17745 | 16061 | 14148 | 13114 | 12040 | 11132 |
| ΔP | 75 | 61 | 53 | 43 | 34 | 29 | 24 | 21 | 85 | 68 | 59 | 48 | 37 | 32 | 27 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | 0 | - | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | - | 112,8 | 105,7 | 95,7 | 84,5 | 78,5 | 72,2 | 66,9 | - | 116,3 | 108,9 | 98,7 | 87,2 | **81,2** | 74,5 | 69,1 |
| Pe | - | 14,6 | 17,4 | 20,9 | 25,5 | 28,2 | 31,2 | 33,9 | - | 14,8 | 17,6 | 21,1 | 25,7 | **28,3** | 31,4 | 34,1 |
| EER | - | 7,70 | 6,08 | 4,59 | 3,32 | 2,78 | 2,32 | 1,98 | - | 7,84 | 6,20 | 4,68 | 3,39 | **2,86** | 2,38 | 2,03 |
| Qu | - | 20361 | 18261 | 16531 | 14583 | 13537 | 12444 | 11529 | - | 20998 | 18830 | 17046 | 15047 | **13983** | 12857 | 11922 |
| ΔP | - | 77 | 59 | 49 | 38 | 33 | 28 | 24 | - | 82 | 63 | 52 | 40 | **35** | 29 | 25 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 112,2 | 101,6 | 89,8 | 83,5 | 76,9 | - | - | - | 118,9 | 107,7 | 95,3 | 88,7 | 81,8 | - |
| Pe | - | - | 17,8 | 21,3 | 25,9 | 28,6 | 31,6 | - | - | - | 18,2 | 21,7 | 26,4 | 29,1 | 32,1 | - |
| EER | - | - | 6,31 | 4,78 | 3,47 | 2,92 | 2,43 | - | - | - | 6,54 | 4,96 | 3,62 | 3,05 | 2,55 | - |
| Qu | - | - | 19408 | 17570 | 15519 | 14423 | 13276 | - | - | - | 20594 | 18643 | 16485 | 15337 | 14135 | - |
| ΔP | - | - | 67 | 55 | 43 | 37 | 31 | - | - | - | 76 | 62 | 48 | 42 | 36 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | - | 114,0 | 101,0 | 94,1 | 86,9 | - | - | - | - | 120,4 | 106,8 | 99,6 | 92,0 | - |
| Pe | - | - | - | 22,2 | 26,8 | 29,6 | 32,6 | - | - | - | - | 22,7 | 27,4 | 30,1 | 33,1 | - |
| EER | - | - | - | 5,14 | 3,76 | 3,18 | 2,67 | - | - | - | - | 5,31 | 3,90 | 3,31 | 2,78 | - |
| Qu | - | - | - | 19750 | 17480 | 16279 | 15021 | - | - | - | - | 20891 | 18505 | 17247 | 15937 | - |
| ΔP | - | - | - | 70 | 54 | 47 | 40 | - | - | - | - | 78 | 61 | 53 | 45 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 112,7 | 105,2 | 97,4 | - | - | - | - | - | 118,8 | 111,0 | 102,9 | - |
| Pe | - | - | - | - | 27,9 | 30,7 | 33,7 | - | - | - | - | - | 28,4 | 31,2 | 34,3 | - |
| EER | - | - | - | - | 4,04 | 3,43 | 2,89 | - | - | - | - | - | 4,18 | 3,55 | 3,00 | - |
| Qu | - | - | - | - | 19559 | 18243 | 16883 | - | - | - | - | - | 20643 | 19266 | 17859 | - |
| ΔP | - | - | - | - | 68 | 59 | 51 | - | - | - | - | - | 76 | 66 | 57 | - |

**Data 14511:2018**

| | |
|---|---|
| **TA b.s.** | External air temperature with dry bulb (°C) |
| **TWu** | Temperature of System side Water Produced (°C) |
| **Glycol** | Suggested ethylene glycol percentage (%) |
| **Pc** | Cooling capacity [kW] |
| **Pe** | Input power (kW) |
| **Qu** | System side Water flow rate [l/h] |
| **ΔP** | Pressure drop to the exchanger (kPa) |
| - | Conditions outside the operating range |

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve O | valve X
double valve Y

TWu -10 °C | TWu 4 °C | TWu 18 °C

## OPERATION IN COOLING MODE - VERSION E

= DCPX standard

### 0502 E

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 75,2 | 73,2 | 69,3 | 63,3 | 56,0 | - | - | - | 80,7 | 78,6 | 74,4 | 68,1 | 60,3 | - | - | - |
| Pe | 13,2 | 14,8 | 17,9 | 21,5 | 26,3 | - | - | - | 13,4 | 15,1 | 18,2 | 21,8 | 26,6 | - | - | - |
| EER | 5,70 | 4,93 | 3,87 | 2,95 | 2,13 | - | - | - | 6,00 | 5,21 | 4,10 | 3,12 | 2,27 | - | - | - |
| Qu | 14512 | 14121 | 13373 | 12215 | 10790 | - | - | - | 15438 | 15038 | 14235 | 13016 | 11526 | - | - | - |
| ΔP | 25 | 23 | 21 | 17 | 14 | - | - | - | 27 | 26 | 23 | 19 | 15 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 86,4 | 84,3 | 79,8 | 73,1 | 64,9 | 60,3 | - | - | 92,3 | 90,4 | 85,5 | 78,3 | 69,7 | 64,9 | 59,8 | - |
| Pe | 13,7 | 15,4 | 18,4 | 22,1 | 27,0 | 29,8 | - | - | 14,0 | 15,7 | 18,7 | 22,5 | 27,3 | 30,2 | 33,4 | - |
| EER | 6,30 | 5,49 | 4,33 | 3,30 | 2,41 | 2,02 | - | - | 6,59 | 5,77 | 4,56 | 3,49 | 2,55 | 2,15 | 1,79 | - |
| Qu | 16409 | 15955 | 15096 | 13812 | 12259 | 11396 | - | - | 17508 | 16916 | 15990 | 14640 | 13021 | 12123 | 11177 | - |
| ΔP | 30 | 28 | 25 | 21 | 16 | 14 | - | - | 34 | 30 | 27 | 23 | 18 | 16 | 13 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 98,4 | 96,7 | 91,4 | 83,7 | 74,6 | 69,6 | 64,3 | - | 104,7 | 103,3 | 97,5 | 89,4 | 79,8 | 74,5 | 69,0 | 64,0 |
| Pe | 14,3 | 16,0 | 19,0 | 22,8 | 27,8 | 30,7 | 33,9 | - | 14,6 | 16,3 | 19,4 | 23,2 | 28,2 | 31,1 | 34,3 | 38,4 |
| EER | 6,88 | 6,06 | 4,80 | 3,67 | 2,69 | 2,27 | 1,90 | - | 7,17 | 6,34 | 5,03 | 3,85 | 2,83 | 2,40 | 2,01 | 1,67 |
| Qu | 18652 | 17918 | 16922 | 15502 | 13810 | 12878 | 11896 | - | 19843 | 18965 | 17891 | 16398 | 14631 | 13660 | 12639 | 11720 |
| ΔP | 38 | 33 | 30 | 25 | 20 | 17 | 15 | - | 43 | 36 | 32 | 27 | 22 | 19 | 16 | 14 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 111,3 | 110,3 | 104,0 | 95,4 | 85,3 | 79,7 | 73,9 | 68,8 | 118,1 | 117,4 | 110,6 | 101,5 | 90,8 | 85,0 | 78,9 | 73,7 |
| Pe | 14,9 | 16,6 | 19,7 | 23,6 | 28,6 | 31,6 | 34,8 | 38,8 | 15,3 | 17,0 | 20,1 | 24,0 | 29,1 | 32,1 | 35,3 | 39,2 |
| EER | 7,45 | 6,63 | 5,26 | 4,04 | 2,98 | 2,52 | 2,12 | 1,77 | 7,72 | 6,91 | 5,49 | 4,22 | 3,12 | 2,65 | 2,23 | 1,88 |
| Qu | 21078 | 20025 | 18871 | 17301 | 15459 | 14449 | 13389 | 12458 | 22357 | 21161 | 19921 | 18270 | 16344 | 15292 | 14190 | 13247 |
| ΔP | 48 | 40 | 35 | 30 | 24 | 21 | 18 | 15 | 53 | 43 | 38 | 32 | 26 | 23 | 20 | 17 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 125,2 | 124,5 | 118,3 | 108,6 | 97,3 | 91,1 | 84,7 | 79,3 | 128,8 | 128,1 | 121,7 | 111,7 | 100,1 | **94,0** | 87,2 | 81,9 |
| Pe | 15,7 | 17,4 | 20,5 | 24,5 | 29,6 | 32,6 | 36,0 | 39,8 | 15,9 | 17,6 | 20,7 | 24,7 | 29,9 | **32,8** | 36,2 | 40,0 |
| EER | 7,99 | 7,17 | 5,76 | 4,43 | 3,28 | 2,79 | 2,36 | 2,00 | 8,11 | 7,29 | 5,87 | 4,52 | 3,35 | **2,86** | 2,41 | 2,05 |
| Qu | 23679 | 22424 | 20409 | 18722 | 16766 | 15702 | 14587 | 13662 | 24356 | 23071 | 20999 | 19266 | 17262 | **16180** | 15033 | 14102 |
| ΔP | 60 | 49 | 39 | 33 | 26 | 23 | 20 | 17 | 63 | 51 | 41 | 35 | 28 | **24** | 21 | 18 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 131,7 | 125,1 | 114,8 | 103,0 | 96,6 | 89,8 | - | - | - | 132,1 | 121,3 | 108,9 | 102,1 | 95,1 | - |
| Pe | - | 17,8 | 21,0 | 24,9 | 30,1 | 33,1 | 36,5 | - | - | - | 21,4 | 25,4 | 30,6 | 33,7 | 37,0 | - |
| EER | - | 7,42 | 5,97 | 4,60 | 3,42 | 2,91 | 2,46 | - | - | - | 6,18 | 4,77 | 3,56 | 3,03 | 2,57 | - |
| Qu | - | 23727 | 21599 | 19818 | 17765 | 16651 | 15485 | - | - | - | 22828 | 20948 | 18794 | 17628 | 16410 | - |
| ΔP | - | 54 | 43 | 37 | 29 | 26 | 22 | - | - | - | 48 | 41 | 33 | 29 | 25 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 139,3 | 127,9 | 114,9 | 107,9 | 100,5 | - | - | - | - | 134,7 | 121,1 | 113,7 | 106,1 | - |
| Pe | - | - | 21,8 | 25,9 | 31,1 | 34,2 | 37,6 | - | - | - | - | 26,4 | 31,7 | 34,8 | 38,1 | - |
| EER | - | - | 6,38 | 4,94 | 3,69 | 3,15 | 2,68 | - | - | - | - | 5,10 | 3,82 | 3,27 | 2,78 | - |
| Qu | - | - | 24094 | 22113 | 19854 | 18634 | 17362 | - | - | - | - | 23312 | 20944 | 19669 | 18342 | - |
| ΔP | - | - | 54 | 45 | 37 | 32 | 28 | - | - | - | - | 51 | 41 | 36 | 31 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 141,7 | 127,4 | 119,8 | 111,8 | - | - | - | - | - | 133,9 | 126,0 | 117,7 | - |
| Pe | - | - | - | 26,9 | 32,2 | 35,3 | 38,7 | - | - | - | - | - | 32,8 | 35,9 | 39,3 | - |
| EER | - | - | - | 5,26 | 3,95 | 3,39 | 2,89 | - | - | - | - | - | 4,08 | 3,51 | 2,99 | - |
| Qu | - | - | - | 24545 | 22065 | 20733 | 19348 | - | - | - | - | - | 23217 | 21826 | 20381 | - |
| ΔP | - | - | - | 56 | 45 | 40 | 35 | - | - | - | - | - | 50 | 44 | 39 | - |

**Data 14511:2018**

| | |
|---|---|
| **TA b.s.** | External air temperature with dry bulb (°C) |
| **TWu** | Temperature of System side Water Produced (°C) |
| **Glycol** | Suggested ethylene glycol percentage (%) |
| **Pc** | Cooling capacity [kW] |
| **Pe** | Input power (kW) |
| **Qu** | System side Water flow rate [l/h] |
| **ΔP** | Pressure drop to the exchanger (kPa) |
| - | Conditions outside the operating range |

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve O | valve X | double valve Y

TWu -10 °C | TWu 4 °C | TWu 18 °C

## OPERATION IN COOLING MODE - VERSION E

■ = DCPX standard

**0552 E**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | - | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 82,3 | 80,2 | 76,0 | 69,5 | - | - | - | - | 88,2 | 86,0 | 81,5 | 74,6 | 66,5 | - | - | - |
| Pe | 14,3 | 16,2 | 19,8 | 23,7 | - | - | - | - | 14,7 | 16,6 | 20,1 | 24,1 | 29,4 | - | - | - |
| EER | 5,75 | 4,95 | 3,84 | 2,93 | - | - | - | - | 6,01 | 5,19 | 4,05 | 3,09 | 2,27 | - | - | - |
| Qu | 15901 | 15489 | 14665 | 13418 | - | - | - | - | 16892 | 16471 | 15597 | 14282 | 12722 | - | - | - |
| ΔP | 29 | 28 | 25 | 21 | - | - | - | - | 32 | 31 | 28 | 23 | 18 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 94,4 | 92,2 | 87,3 | 80,1 | 71,5 | 66,7 | - | - | 100,7 | 98,7 | 93,4 | 85,7 | 76,6 | 71,6 | - | - |
| Pe | 15,1 | 17,0 | 20,5 | 24,6 | 29,8 | 33,0 | - | - | 15,5 | 17,4 | 20,9 | 25,0 | 30,4 | 33,5 | - | - |
| EER | 6,27 | 5,44 | 4,26 | 3,26 | 2,39 | 2,03 | - | - | 6,51 | 5,69 | 4,47 | 3,43 | 2,52 | 2,14 | - | - |
| Qu | 17930 | 17453 | 16523 | 15142 | 13509 | 12614 | - | - | 19107 | 18482 | 17489 | 16038 | 14325 | 13390 | - | - |
| ΔP | 35 | 33 | 30 | 25 | 20 | 17 | - | - | 40 | 36 | 33 | 27 | 22 | 19 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 107,2 | 105,5 | 99,8 | 91,6 | 82,0 | 76,7 | 71,2 | - | 114,0 | 112,6 | 106,4 | 97,7 | 87,5 | 82,0 | 76,1 | 74,1 |
| Pe | 15,9 | 17,8 | 21,3 | 25,5 | 30,9 | 34,1 | 37,5 | - | 16,3 | 18,2 | 21,8 | 26,0 | 31,5 | 34,7 | 38,2 | 40,1 |
| EER | 6,75 | 5,94 | 4,68 | 3,59 | 2,65 | 2,25 | 1,90 | - | 6,99 | 6,18 | 4,89 | 3,76 | 2,78 | 2,37 | 2,00 | 1,85 |
| Qu | 20334 | 19556 | 18493 | 16968 | 15175 | 14196 | 13168 | - | 21609 | 20677 | 19537 | 17936 | 16058 | 15033 | 13959 | 13582 |
| ΔP | 45 | 40 | 35 | 30 | 24 | 21 | 18 | - | 50 | 43 | 39 | 33 | 26 | 23 | 20 | 19 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 121,0 | 120,1 | 113,4 | 104,2 | 93,4 | 87,6 | 81,4 | 79,4 | 128,3 | 127,7 | 120,5 | 110,8 | 99,4 | 93,2 | 86,7 | 84,8 |
| Pe | 16,8 | 18,7 | 22,2 | 26,5 | 32,1 | 35,3 | 38,8 | 40,8 | 17,2 | 19,2 | 22,7 | 27,1 | 32,7 | 35,9 | 39,5 | 41,4 |
| EER | 7,22 | 6,43 | 5,10 | 3,93 | 2,91 | 2,48 | 2,10 | 1,95 | 7,44 | 6,67 | 5,30 | 4,09 | 3,04 | 2,59 | 2,20 | 2,05 |
| Qu | 22931 | 21810 | 20590 | 18912 | 16948 | 15877 | 14756 | 14387 | 24299 | 23026 | 21721 | 19957 | 17901 | 16781 | 15608 | 15249 |
| ΔP | 56 | 47 | 42 | 35 | 28 | 25 | 22 | 20 | 63 | 51 | 46 | 39 | 31 | 27 | 24 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 135,9 | 135,2 | 128,9 | 118,5 | 106,4 | 99,9 | 93,0 | 91,0 | 139,7 | 139,1 | 132,5 | 121,8 | 109,5 | **103,0** | 95,7 | 93,8 |
| Pe | 17,7 | 19,7 | 23,3 | 27,7 | 33,4 | 36,7 | 40,3 | 42,3 | 18,0 | 19,9 | 23,5 | 28,0 | 33,7 | **36,9** | 40,6 | 42,6 |
| EER | 7,66 | 6,88 | 5,54 | 4,28 | 3,19 | 2,72 | 2,31 | 2,15 | 7,75 | 6,98 | 5,63 | 4,35 | 3,25 | **2,79** | 2,36 | 2,20 |
| Qu | 25711 | 24378 | 22235 | 20436 | 18347 | 17209 | 16017 | 15680 | 26435 | 25069 | 22870 | 21023 | 18880 | **17722** | 16493 | 16162 |
| ΔP | 70 | 57 | 46 | 39 | 31 | 28 | 24 | 23 | 74 | 61 | 49 | 41 | 33 | **29** | 25 | 24 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 143,6 | 143,0 | 136,1 | 125,2 | 112,6 | 105,7 | 98,4 | - | - | 150,9 | 143,6 | 132,1 | 118,8 | 111,6 | 104,1 | - |
| Pe | 18,3 | 20,2 | 23,8 | 28,3 | 34,0 | 37,3 | 41,0 | - | - | 20,7 | 24,4 | 28,9 | 34,7 | 38,0 | 41,7 | - |
| EER | 7,85 | 7,08 | 5,72 | 4,43 | 3,31 | 2,83 | 2,40 | - | - | 7,28 | 5,89 | 4,57 | 3,43 | 2,94 | 2,50 | - |
| Qu | 27168 | 25771 | 23514 | 21618 | 19421 | 18227 | 16976 | - | - | 27204 | 24831 | 22834 | 20528 | 19275 | 17964 | - |
| ΔP | 78 | 64 | 51 | 43 | 35 | 31 | 27 | - | - | 71 | 57 | 48 | 39 | 35 | 30 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 151,3 | 139,2 | 125,3 | 117,8 | 109,8 | - | - | - | - | 146,5 | 131,9 | 124,0 | 115,8 | - |
| Pe | - | - | 25,0 | 29,5 | 35,3 | 38,7 | 42,4 | - | - | - | - | 30,2 | 36,0 | 39,4 | 43,1 | - |
| EER | - | - | 6,06 | 4,71 | 3,55 | 3,04 | 2,59 | - | - | - | - | 4,85 | 3,66 | 3,15 | 2,68 | - |
| Qu | - | - | 26187 | 24086 | 21666 | 20353 | 18980 | - | - | - | - | 25373 | 22836 | 21461 | 20023 | - |
| ΔP | - | - | 64 | 54 | 44 | 38 | 33 | - | - | - | - | 60 | 48 | 43 | 37 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 154,0 | 138,7 | 130,5 | 121,8 | - | - | - | - | - | 145,7 | 137,1 | 128,1 | - |
| Pe | - | - | - | 30,9 | 36,8 | 40,2 | 43,9 | - | - | - | - | - | 37,5 | 41,0 | 44,7 | - |
| EER | - | - | - | 4,99 | 3,77 | 3,25 | 2,78 | - | - | - | - | - | 3,88 | 3,35 | 2,87 | - |
| Qu | - | - | - | 26694 | 24037 | 22598 | 21094 | - | - | - | - | - | 25268 | 23764 | 22193 | - |
| ΔP | - | - | - | 66 | 54 | 47 | 41 | - | - | - | - | - | 59 | 52 | 46 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
**-** Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve o | valve X | double valve Y

## OPERATION IN COOLING MODE - VERSION E

= DCPX standard

**0602 E**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 94,9 | 92,7 | 87,9 | 80,6 | 71,9 | - | - | - | 101,5 | 99,3 | 94,2 | 86,4 | 77,2 | - | - | - |
| Pe | 15,5 | 17,8 | 21,9 | 26,3 | 32,0 | - | - | - | 15,9 | 18,2 | 22,3 | 26,7 | 32,5 | - | - | - |
| EER | 6,10 | 5,20 | 4,01 | 3,06 | 2,24 | - | - | - | 6,37 | 5,45 | 4,23 | 3,23 | 2,37 | - | - | - |
| Qu | 18325 | 17895 | 16965 | 15549 | 13869 | - | - | - | 19440 | 19003 | 18024 | 16533 | 14768 | - | - | - |
| ΔP | 30 | 28 | 26 | 21 | 17 | - | - | - | 33 | 31 | 28 | 24 | 19 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 108,5 | 106,3 | 100,8 | 92,6 | 82,9 | 77,5 | - | - | 115,6 | 113,6 | 107,8 | 99,1 | 88,8 | 83,1 | 77,2 | - |
| Pe | 16,4 | 18,7 | 22,7 | 27,2 | 33,0 | 36,5 | - | - | 16,8 | 19,1 | 23,1 | 27,7 | 33,6 | 37,0 | 40,8 | - |
| EER | 6,63 | 5,70 | 4,45 | 3,41 | 2,51 | 2,13 | - | - | 6,88 | 5,95 | 4,66 | 3,58 | 2,64 | 2,24 | 1,89 | - |
| Qu | 20608 | 20110 | 19076 | 17514 | 15663 | 14653 | - | - | 21932 | 21267 | 20173 | 18533 | 16597 | 15539 | 14431 | - |
| ΔP | 36 | 34 | 30 | 26 | 21 | 18 | - | - | 40 | 37 | 33 | 28 | 22 | 20 | 17 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 122,9 | 121,3 | 115,0 | 105,8 | 94,9 | 88,9 | 82,7 | - | 130,5 | 129,2 | 122,5 | 112,8 | 101,3 | 95,0 | 88,4 | 83,3 |
| Pe | 17,3 | 19,6 | 23,6 | 28,2 | 34,2 | 37,7 | 41,5 | - | 17,8 | 20,0 | 24,1 | 28,7 | 34,8 | 38,3 | 42,1 | 46,3 |
| EER | 7,12 | 6,20 | 4,88 | 3,75 | 2,78 | 2,36 | 1,99 | - | 7,35 | 6,45 | 5,09 | 3,92 | 2,91 | 2,48 | 2,10 | 1,80 |
| Qu | 23310 | 22474 | 21311 | 19594 | 17568 | 16462 | 15302 | - | 24739 | 23731 | 22495 | 20696 | 18578 | 17421 | 16208 | 15258 |
| ΔP | 45 | 40 | 36 | 30 | 24 | 21 | 19 | - | 50 | 44 | 39 | 33 | 27 | 23 | 20 | 18 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 138,4 | 137,7 | 130,5 | 120,2 | 108,0 | 101,4 | 94,5 | 89,1 | 146,6 | 146,2 | 138,5 | 127,7 | 114,9 | 107,9 | 100,6 | 95,2 |
| Pe | 18,3 | 20,6 | 24,6 | 29,3 | 35,4 | 39,0 | 42,9 | 46,9 | 18,8 | 21,1 | 25,2 | 29,9 | 36,1 | 39,7 | 43,6 | 47,5 |
| EER | 7,58 | 6,69 | 5,30 | 4,10 | 3,05 | 2,60 | 2,20 | 1,90 | 7,80 | 6,93 | 5,51 | 4,26 | 3,19 | 2,72 | 2,31 | 2,00 |
| Qu | 26218 | 24998 | 23685 | 21806 | 19597 | 18389 | 17124 | 16156 | 27746 | 26358 | 24959 | 22993 | 20686 | 19425 | 18104 | 17121 |
| ΔP | 56 | 47 | 42 | 36 | 29 | 25 | 22 | 20 | 63 | 51 | 46 | 39 | 32 | 28 | 24 | 22 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 155,0 | 154,6 | 148,0 | 136,4 | 122,9 | 115,5 | 107,8 | 102,2 | 159,2 | 158,9 | 152,0 | 140,2 | 126,4 | **119,1** | 110,9 | 105,4 |
| Pe | 19,4 | 21,7 | 25,8 | 30,6 | 36,8 | 40,5 | 44,4 | 48,2 | 19,7 | 22,0 | 26,1 | 30,9 | 37,2 | **40,7** | 44,8 | 48,5 |
| EER | 8,00 | 7,14 | 5,74 | 4,46 | 3,34 | 2,86 | 2,43 | 2,12 | 8,09 | 7,24 | 5,83 | 4,53 | 3,40 | **2,92** | 2,48 | 2,17 |
| Qu | 29321 | 27868 | 25524 | 23527 | 21188 | 19910 | 18570 | 17609 | 30125 | 28639 | 26237 | 24192 | 21797 | **20498** | 19118 | 18154 |
| ΔP | 70 | 57 | 46 | 39 | 32 | 28 | 24 | 22 | 74 | 61 | 49 | 42 | 34 | **30** | 26 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 163,3 | 156,1 | 144,1 | 129,9 | 122,2 | 114,1 | - | - | - | 164,5 | 151,9 | 137,1 | 129,0 | 120,6 | - |
| Pe | - | 22,2 | 26,4 | 31,3 | 37,5 | 41,2 | 45,2 | - | - | - | 27,0 | 31,9 | 38,2 | 41,9 | 45,9 | - |
| EER | - | 7,34 | 5,92 | 4,61 | 3,46 | 2,97 | 2,53 | - | - | - | 6,09 | 4,75 | 3,58 | 3,08 | 2,63 | - |
| Qu | - | 29421 | 26961 | 24866 | 22415 | 21076 | 19673 | - | - | - | 28438 | 26241 | 23676 | 22276 | 20808 | - |
| ΔP | - | 64 | 52 | 44 | 36 | 32 | 27 | - | - | - | 57 | 49 | 40 | 35 | 31 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 173,1 | 159,9 | 144,5 | 136,0 | 127,2 | - | - | - | - | 168,1 | 152,0 | 143,2 | 134,0 | - |
| Pe | - | - | 27,6 | 32,7 | 39,0 | 42,7 | 46,7 | - | - | - | - | 33,4 | 39,8 | 43,5 | 47,5 | - |
| EER | - | - | 6,26 | 4,90 | 3,70 | 3,19 | 2,72 | - | - | - | - | 5,03 | 3,82 | 3,29 | 2,82 | - |
| Qu | - | - | 29954 | 27653 | 24971 | 23508 | 21973 | - | - | - | - | 29100 | 26299 | 24771 | 23169 | - |
| ΔP | - | - | 64 | 54 | 44 | 39 | 34 | - | - | - | - | 60 | 49 | 44 | 38 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 176,4 | 159,7 | 150,5 | 140,9 | - | - | - | - | - | 167,5 | 158,0 | 148,0 | - |
| Pe | - | - | - | 34,2 | 40,6 | 44,3 | 48,4 | - | - | - | - | - | 41,4 | 45,2 | 49,3 | - |
| EER | - | - | - | 5,16 | 3,93 | 3,40 | 2,91 | - | - | - | - | - | 4,04 | 3,50 | 3,00 | - |
| Qu | - | - | - | 30582 | 27659 | 26065 | 24394 | - | - | - | - | - | 29049 | 27389 | 25648 | - |
| ΔP | - | - | - | 66 | 54 | 48 | 42 | - | - | - | - | - | 60 | 53 | 47 | - |

**Data 14511:2018**

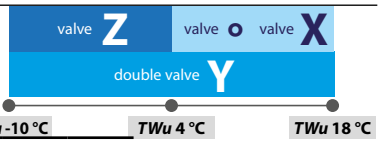
| | |
|---|---|
| **TA b.s.** | External air temperature with dry bulb (°C) |
| **TWu** | Temperature of System side Water Produced (°C) |
| **Glycol** | Suggested ethylene glycol percentage (%) |
| **Pc** | Cooling capacity [kW] |
| **Pe** | Input power (kW) |
| **Qu** | System side Water flow rate [l/h] |
| **ΔP** | Pressure drop to the exchanger (kPa) |
| - | Conditions outside the operating range |

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN COOLING MODE - VERSION E

■ = DCPX standard




**0652 E**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | - | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 105,8 | 102,8 | 96,6 | 88,2 | - | - | - | - | 112,9 | 109,8 | 103,4 | 94,4 | 84,2 | - | - | - |
| Pe | 17,8 | 20,4 | 25,1 | 30,1 | - | - | - | - | 18,3 | 20,9 | 25,5 | 30,6 | 37,2 | - | - | - |
| EER | 5,95 | 5,03 | 3,85 | 2,93 | - | - | - | - | 6,19 | 5,25 | 4,05 | 3,09 | 2,26 | - | - | - |
| Qu | 20439 | 19851 | 18660 | 17022 | - | - | - | - | 21634 | 21036 | 19794 | 18072 | 16106 | - | - | - |
| ΔP | 37 | 35 | 31 | 26 | - | - | - | - | 40 | 38 | 34 | 28 | 22 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | - | - |
| Pc | 120,4 | 117,3 | 110,5 | 101,0 | 90,2 | 84,3 | - | - | 127,9 | 125,1 | 117,9 | 107,9 | 96,4 | 90,2 | - | - |
| Pe | 18,7 | 21,4 | 26,0 | 31,1 | 37,9 | 41,8 | - | - | 19,3 | 21,9 | 26,5 | 31,7 | 38,5 | 42,5 | - | - |
| EER | 6,42 | 5,48 | 4,25 | 3,25 | 2,38 | 2,02 | - | - | 6,64 | 5,70 | 4,45 | 3,40 | 2,50 | 2,12 | - | - |
| Qu | 22878 | 22212 | 20916 | 19113 | 17051 | 15934 | - | - | 24286 | 23436 | 22079 | 20195 | 18035 | 16863 | - | - |
| ΔP | 44 | 41 | 37 | 31 | 24 | 21 | - | - | 49 | 45 | 40 | 33 | 26 | 23 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 135,7 | 133,3 | 125,6 | 115,1 | 102,9 | 96,3 | 89,4 | - | 143,7 | 141,7 | 133,6 | 122,5 | 109,7 | 102,7 | 95,4 | 93,3 |
| Pe | 19,8 | 22,5 | 27,1 | 32,3 | 39,2 | 43,2 | 47,6 | - | 20,4 | 23,1 | 27,6 | 33,0 | 39,9 | 44,0 | 48,4 | 50,7 |
| EER | 6,85 | 5,93 | 4,64 | 3,56 | 2,63 | 2,23 | 1,88 | - | 7,06 | 6,14 | 4,83 | 3,71 | 2,75 | 2,34 | 1,97 | 1,84 |
| Qu | 25744 | 24707 | 23283 | 21317 | 19058 | 17831 | 16545 | - | 27249 | 26026 | 24529 | 22479 | 20120 | 18837 | 17490 | 17103 |
| ΔP | 55 | 48 | 43 | 36 | 29 | 25 | 22 | - | 61 | 52 | 47 | 39 | 31 | 27 | 24 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 151,9 | 150,5 | 141,9 | 130,2 | 116,8 | 109,4 | 101,7 | 99,6 | 160,4 | 159,5 | 150,4 | 138,1 | 124,0 | 116,3 | 108,2 | 106,2 |
| Pe | 20,9 | 23,7 | 28,3 | 33,7 | 40,7 | 44,8 | 49,3 | 51,4 | 21,6 | 24,3 | 28,9 | 34,4 | 41,5 | 45,6 | 50,1 | 52,1 |
| EER | 7,25 | 6,36 | 5,02 | 3,87 | 2,87 | 2,44 | 2,06 | 1,94 | 7,43 | 6,57 | 5,20 | 4,02 | 2,99 | 2,55 | 2,16 | 2,04 |
| Qu | 28800 | 27349 | 25777 | 23645 | 21188 | 19850 | 18444 | 18069 | 30395 | 28764 | 27110 | 24890 | 22330 | 20934 | 19466 | 19108 |
| ΔP | 68 | 56 | 50 | 42 | 34 | 30 | 26 | 25 | 75 | 61 | 54 | 46 | 37 | 32 | 28 | 27 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 169,1 | 168,2 | 160,3 | 147,4 | 132,4 | 124,3 | 115,7 | 113,8 | 173,5 | 172,7 | 164,5 | 151,3 | 136,1 | **128,0** | 118,9 | 117,2 |
| Pe | 22,3 | 24,9 | 29,6 | 35,2 | 42,4 | 46,5 | 51,1 | 52,9 | 22,6 | 25,3 | 30,0 | 35,6 | 42,8 | **46,9** | 51,6 | 53,2 |
| EER | 7,59 | 6,75 | 5,41 | 4,19 | 3,13 | 2,67 | 2,26 | 2,15 | 7,67 | 6,83 | 5,49 | 4,25 | 3,18 | **2,73** | 2,31 | 2,20 |
| Qu | 32031 | 30336 | 27666 | 25424 | 22835 | 21421 | 19934 | 19614 | 32863 | 31136 | 28410 | 26119 | 23472 | **22036** | 20505 | 20202 |
| ΔP | 83 | 68 | 54 | 46 | 37 | 33 | 28 | 27 | 88 | 72 | 57 | 48 | 39 | **34** | 30 | 29 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | 10 | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 178,0 | 177,1 | 168,8 | 155,3 | 139,7 | 131,2 | 122,2 | - | - | 186,2 | 177,5 | 163,5 | 147,2 | 138,3 | 129,0 | - |
| Pe | 23,0 | 25,6 | 30,3 | 36,0 | 43,2 | 47,4 | 52,0 | - | - | 26,4 | 31,1 | 36,8 | 44,0 | 48,3 | 52,9 | - |
| EER | 7,74 | 6,91 | 5,56 | 4,32 | 3,24 | 2,77 | 2,35 | - | - | 7,06 | 5,71 | 4,45 | 3,34 | 2,87 | 2,44 | - |
| Qu | 33706 | 31945 | 29163 | 26822 | 24118 | 22640 | 21084 | - | - | 33590 | 30694 | 28255 | 25434 | 23891 | 22265 | - |
| ΔP | 92 | 75 | 60 | 51 | 41 | 36 | 32 | - | - | 83 | 67 | 57 | 46 | 41 | 35 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 186,3 | 171,8 | 154,9 | 145,6 | 135,8 | - | - | - | 195,3 | 180,2 | 162,6 | 153,0 | 142,9 | - |
| Pe | - | - | 31,9 | 37,6 | 44,9 | 49,2 | 53,9 | - | - | - | 32,8 | 38,5 | 45,9 | 50,2 | 54,9 | - |
| EER | - | - | 5,84 | 4,57 | 3,45 | 2,96 | 2,52 | - | - | - | 5,96 | 4,68 | 3,55 | 3,05 | 2,60 | - |
| Qu | - | - | 32260 | 29719 | 26780 | 25171 | 23475 | - | - | - | 33857 | 31215 | 28156 | 26481 | 24714 | - |
| ΔP | - | - | 74 | 63 | 51 | 45 | 39 | - | - | - | 81 | 69 | 56 | 50 | 43 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 188,8 | 170,6 | 160,6 | 150,0 | - | - | - | - | - | 178,7 | 168,3 | 157,3 | - |
| Pe | - | - | - | 39,5 | 46,8 | 51,2 | 55,9 | - | - | - | - | - | 47,9 | 52,2 | 56,9 | - |
| EER | - | - | - | 4,78 | 3,64 | 3,14 | 2,68 | - | - | - | - | - | 3,73 | 3,22 | 2,76 | - |
| Qu | - | - | - | 32740 | 29560 | 27818 | 25980 | - | - | - | - | - | 30992 | 29182 | 27272 | - |
| ΔP | - | - | - | 76 | 62 | 55 | 48 | - | - | - | - | - | 68 | 60 | 53 | - |

**Data 14511:2018**

| | |
|---|---|
| **TA b.s.** | External air temperature with dry bulb (°C) |
| **TWu** | Temperature of System side Water Produced (°C) |
| **Glycol** | Suggested ethylene glycol percentage (%) |
| **Pc** | Cooling capacity [kW] |
| **Pe** | Input power (kW) |
| **Qu** | System side Water flow rate [l/h] |
| **ΔP** | Pressure drop to the exchanger (kPa) |
| - | Conditions outside the operating range |

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve o | valve X
double valve Y

TWu -10 °C | TWu 4 °C | TWu 18 °C

## OPERATION IN COOLING MODE - VERSION E

= DCPX standard

**0682 E**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | 29 | - | - |
| Pc | 120,2 | 119,3 | 115,2 | 106,4 | 95,3 | - | - | - | 129,4 | 128,3 | 123,5 | 114,2 | 102,4 | 95,7 | - | - |
| Pe | 20,1 | 23,1 | 28,2 | 33,8 | 41,3 | - | - | - | 20,7 | 23,6 | 28,6 | 34,3 | 41,8 | 46,3 | - | - |
| EER | 5,98 | 5,17 | 4,08 | 3,15 | 2,31 | - | - | - | 6,24 | 5,43 | 4,31 | 3,33 | 2,45 | 2,07 | - | - |
| Qu | 23214 | 23047 | 22243 | 20543 | 18390 | - | - | - | 24781 | 24577 | 23655 | 21852 | 19584 | 18314 | - | - |
| ΔP | 37 | 37 | 34 | 29 | 23 | - | - | - | 41 | 41 | 38 | 32 | 26 | 23 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 139,0 | 137,9 | 132,4 | 122,4 | 109,9 | 102,9 | - | - | 148,7 | 147,8 | 141,7 | 131,0 | 117,8 | 110,4 | 102,6 | - |
| Pe | 21,3 | 24,2 | 29,1 | 34,8 | 42,3 | 46,8 | - | - | 22,0 | 24,8 | 29,6 | 35,3 | 42,9 | 47,4 | 52,4 | - |
| EER | 6,51 | 5,69 | 4,55 | 3,52 | 2,60 | 2,20 | - | - | 6,77 | 5,96 | 4,78 | 3,71 | 2,75 | 2,33 | 1,96 | - |
| Qu | 26407 | 26101 | 25063 | 23158 | 20781 | 19453 | - | - | 28228 | 27686 | 26534 | 24524 | 22034 | 20648 | 19184 | - |
| ΔP | 46 | 44 | 41 | 35 | 28 | 25 | - | - | 52 | 48 | 44 | 38 | 31 | 27 | 23 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 158,7 | 158,2 | 151,4 | 140,0 | 126,0 | 118,3 | 110,0 | - | 169,1 | 169,0 | 161,5 | 149,4 | 134,7 | 126,5 | 117,8 | 106,1 |
| Pe | 22,6 | 25,4 | 30,2 | 35,9 | 43,5 | 48,0 | 53,0 | - | 23,3 | 26,1 | 30,8 | 36,5 | 44,1 | 48,7 | 53,7 | 62,6 |
| EER | 7,02 | 6,22 | 5,01 | 3,90 | 2,90 | 2,46 | 2,08 | - | 7,26 | 6,48 | 5,24 | 4,09 | 3,05 | 2,60 | 2,19 | 1,70 |
| Qu | 30114 | 29334 | 28068 | 25950 | 23343 | 21895 | 20369 | - | 32067 | 31046 | 29666 | 27435 | 24710 | 23197 | 21605 | 19448 |
| ΔP | 58 | 53 | 48 | 41 | 33 | 29 | 25 | - | 66 | 58 | 53 | 45 | 37 | 32 | 28 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 179,8 | 180,4 | 172,2 | 159,4 | 143,8 | 135,1 | 126,0 | 113,8 | 190,8 | 192,0 | 183,1 | 169,5 | 153,1 | 144,0 | 134,5 | 121,9 |
| Pe | 24,0 | 26,8 | 31,5 | 37,2 | 44,9 | 49,4 | 54,4 | 63,2 | 24,8 | 27,5 | 32,2 | 37,9 | 45,6 | 50,1 | 55,2 | 63,8 |
| EER | 7,48 | 6,74 | 5,47 | 4,28 | 3,21 | 2,74 | 2,32 | 1,80 | 7,69 | 6,98 | 5,69 | 4,47 | 3,36 | 2,87 | 2,44 | 1,91 |
| Qu | 34083 | 32773 | 31280 | 28937 | 26093 | 24518 | 22861 | 20639 | 36165 | 34623 | 33012 | 30551 | 27578 | 25935 | 24209 | 21925 |
| ΔP | 74 | 63 | 57 | 49 | 40 | 35 | 31 | 25 | 83 | 69 | 63 | 54 | 44 | 39 | 34 | 28 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 202,2 | 203,3 | 195,9 | 181,4 | 164,0 | 154,4 | 144,3 | 131,2 | 208,0 | 209,1 | 201,4 | 186,6 | 168,8 | **159,4** | 148,6 | 135,3 |
| Pe | 25,6 | 28,3 | 32,9 | 38,7 | 46,4 | 51,0 | 56,1 | 64,6 | 26,1 | 28,7 | 33,3 | 39,1 | 46,8 | **51,4** | 56,5 | 64,9 |
| EER | 7,89 | 7,19 | 5,95 | 4,69 | 3,53 | 3,03 | 2,57 | 2,03 | 7,98 | 7,29 | 6,04 | 4,77 | 3,61 | **3,10** | 2,63 | 2,09 |
| Qu | 38310 | 36677 | 33812 | 31301 | 28285 | 26623 | 24875 | 22603 | 39406 | 37727 | 34785 | 32207 | 29119 | **27430** | 25632 | 23330 |
| ΔP | 93 | 77 | 63 | 54 | 44 | 39 | 34 | 28 | 98 | 82 | 67 | 57 | 47 | **41** | 36 | 30 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | 213,8 | 215,0 | 207,0 | 191,8 | 173,6 | 163,6 | 153,0 | - | - | - | 218,4 | 202,5 | 183,5 | 173,0 | 162,0 | - |
| Pe | 26,5 | 29,1 | 33,7 | 39,5 | 47,2 | 51,8 | 56,9 | - | - | - | 34,6 | 40,3 | 48,0 | 52,6 | 57,7 | - |
| EER | 8,07 | 7,39 | 6,14 | 4,86 | 3,68 | 3,16 | 2,69 | - | - | - | 6,32 | 5,02 | 3,82 | 3,29 | 2,81 | - |
| Qu | 40517 | 38792 | 35774 | 33129 | 29967 | 28228 | 26401 | - | - | - | 37796 | 35013 | 31703 | 29885 | 27977 | - |
| ΔP | 103 | 86 | 70 | 60 | 49 | 44 | 38 | - | - | - | 79 | 68 | 55 | 49 | 43 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 230,1 | 213,4 | 193,6 | 182,7 | 171,2 | - | - | - | - | 224,7 | 204,0 | 192,7 | 180,7 | - |
| Pe | - | - | 35,5 | 41,2 | 48,9 | 53,5 | 58,5 | - | - | - | - | 42,2 | 49,8 | 54,4 | 59,5 | - |
| EER | - | - | 6,48 | 5,18 | 3,96 | 3,42 | 2,92 | - | - | - | - | 5,33 | 4,10 | 3,54 | 3,04 | - |
| Qu | - | - | 39879 | 36955 | 33492 | 31594 | 29602 | - | - | - | - | 38952 | 35334 | 33353 | 31277 | - |
| ΔP | - | - | 88 | 75 | 62 | 55 | 48 | - | - | - | - | 84 | 69 | 61 | 54 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 214,7 | 202,9 | 190,5 | - | - | - | - | - | 225,6 | 213,3 | 200,5 | - |
| Pe | - | - | - | - | 50,8 | 55,3 | 60,4 | - | - | - | - | - | 51,8 | 56,4 | 61,4 | - |
| EER | - | - | - | - | 4,23 | 3,67 | 3,15 | - | - | - | - | - | 4,35 | 3,78 | 3,26 | - |
| Qu | - | - | - | - | 37227 | 35163 | 33000 | - | - | - | - | - | 39171 | 37021 | 34770 | - |
| ΔP | - | - | - | - | 76 | 68 | 60 | - | - | - | - | - | 84 | 75 | 67 | - |

**Data 14511:2018**

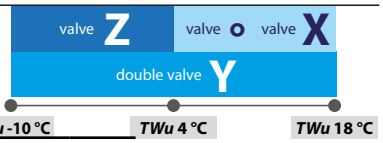
**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN COOLING MODE - VERSION E

■ = DCPX standard




**0702 E**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | 29 | - | - |
| Pc | 136,1 | 132,9 | 126,8 | 117,0 | 104,4 | - | - | - | 146,1 | 142,7 | 136,1 | 125,4 | 112,0 | 104,4 | - | - |
| Pe | 24,1 | 26,4 | 31,2 | 37,5 | 46,3 | - | - | - | 24,6 | 27,0 | 31,8 | 38,1 | 46,8 | 52,1 | - | - |
| EER | 5,66 | 5,03 | 4,06 | 3,11 | 2,26 | - | - | - | 5,93 | 5,29 | 4,28 | 3,29 | 2,39 | 2,00 | - | - |
| Qu | 26309 | 25679 | 24504 | 22589 | 20148 | - | - | - | 28012 | 27352 | 26068 | 24013 | 21434 | 19970 | - | - |
| ΔP | 48 | 46 | 42 | 36 | 28 | - | - | - | 53 | 51 | 46 | 39 | 31 | 27 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 156,7 | 153,2 | 145,9 | 134,4 | 120,1 | 112,0 | - | - | 167,4 | 164,3 | 156,1 | 143,7 | 128,6 | 120,1 | 111,0 | - |
| Pe | 25,3 | 27,6 | 32,4 | 38,7 | 47,5 | 52,8 | - | - | 26,0 | 28,3 | 33,0 | 39,4 | 48,2 | 53,5 | 59,4 | - |
| EER | 6,20 | 5,55 | 4,50 | 3,47 | 2,53 | 2,12 | - | - | 6,44 | 5,81 | 4,72 | 3,65 | 2,67 | 2,25 | 1,87 | - |
| Qu | 29794 | 29030 | 27625 | 25435 | 22721 | 21190 | - | - | 31808 | 30786 | 29248 | 26918 | 24067 | 22468 | 20767 | - |
| ΔP | 59 | 55 | 50 | 42 | 34 | 29 | - | - | 66 | 60 | 54 | 46 | 37 | 32 | 27 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 178,5 | 175,8 | 166,8 | 153,5 | 137,5 | 128,5 | 119,0 | - | 190,0 | 187,8 | 177,9 | 163,7 | 146,7 | 137,3 | 127,3 | 114,3 |
| Pe | 26,7 | 29,0 | 33,8 | 40,1 | 48,9 | 54,2 | 60,1 | - | 27,6 | 29,9 | 34,6 | 40,9 | 49,8 | 55,1 | 61,0 | 70,7 |
| EER | 6,67 | 6,05 | 4,94 | 3,82 | 2,81 | 2,37 | 1,98 | - | 6,89 | 6,29 | 5,15 | 4,00 | 2,95 | 2,49 | 2,09 | 1,62 |
| Qu | 33905 | 32619 | 30938 | 28466 | 25472 | 23803 | 22031 | - | 36081 | 34528 | 32695 | 30077 | 26937 | 25195 | 23351 | 20952 |
| ΔP | 75 | 66 | 59 | 50 | 40 | 35 | 30 | - | 84 | 72 | 65 | 55 | 44 | 38 | 33 | 27 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 201,9 | 200,4 | 189,6 | 174,5 | 156,5 | 146,6 | 136,1 | 122,6 | 214,2 | 213,3 | 201,5 | 185,5 | 166,5 | 156,1 | 145,1 | 131,2 |
| Pe | 28,5 | 30,7 | 35,4 | 41,8 | 50,6 | 56,0 | 61,9 | 71,5 | 29,5 | 31,7 | 36,4 | 42,7 | 51,6 | 56,9 | 62,9 | 72,2 |
| EER | 7,09 | 6,52 | 5,35 | 4,18 | 3,09 | 2,62 | 2,20 | 1,72 | 7,27 | 6,74 | 5,54 | 4,34 | 3,23 | 2,74 | 2,31 | 1,82 |
| Qu | 38333 | 36456 | 34466 | 31702 | 28418 | 26604 | 24688 | 22235 | 40659 | 38519 | 36362 | 33445 | 30007 | 28115 | 26121 | 23615 |
| ΔP | 94 | 78 | 70 | 59 | 48 | 42 | 36 | 29 | 106 | 86 | 77 | 65 | 52 | 46 | 40 | 32 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 226,8 | 225,9 | 215,5 | 198,3 | 178,2 | 167,2 | 155,5 | 141,2 | 233,3 | 232,3 | 221,5 | 203,9 | 183,3 | **172,5** | 160,1 | 145,7 |
| Pe | 30,5 | 32,7 | 37,3 | 43,8 | 52,6 | 58,0 | 64,0 | 73,1 | 31,1 | 33,2 | 37,9 | 44,3 | 53,1 | **58,5** | 64,5 | 73,5 |
| EER | 7,43 | 6,91 | 5,77 | 4,53 | 3,39 | 2,88 | 2,43 | 1,93 | 7,50 | 7,00 | 5,85 | 4,61 | 3,45 | **2,95** | 2,48 | 1,98 |
| Qu | 43054 | 40805 | 37226 | 34239 | 30746 | 28831 | 26818 | 24340 | 44277 | 41972 | 38288 | 35216 | 31636 | **29691** | 27621 | 25119 |
| ΔP | 118 | 96 | 77 | 65 | 53 | 46 | 40 | 33 | 124 | 102 | 81 | 69 | 56 | **49** | 42 | 35 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 238,8 | 227,5 | 209,5 | 188,4 | 176,9 | 164,8 | - | - | - | 239,9 | 220,9 | 198,9 | 186,9 | 174,2 | - |
| Pe | - | 33,8 | 38,4 | 44,8 | 53,6 | 59,0 | 65,0 | - | - | - | 39,5 | 45,9 | 54,7 | 60,1 | 66,1 | - |
| EER | - | 7,07 | 5,93 | 4,68 | 3,51 | 3,00 | 2,53 | - | - | - | 6,07 | 4,81 | 3,63 | 3,11 | 2,64 | - |
| Qu | - | 43155 | 39366 | 36207 | 32541 | 30539 | 28436 | - | - | - | 41566 | 38234 | 34389 | 32298 | 30105 | - |
| ΔP | - | 107 | 86 | 73 | 59 | 52 | 45 | - | - | - | 96 | 81 | 66 | 58 | 50 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 252,6 | 232,6 | 209,6 | 197,1 | 184,0 | - | - | - | - | 244,6 | 220,6 | 207,6 | 194,0 | - |
| Pe | - | - | 40,7 | 47,1 | 55,9 | 61,2 | 67,2 | - | - | - | - | 48,4 | 57,1 | 62,4 | 68,4 | - |
| EER | - | - | 6,20 | 4,94 | 3,75 | 3,22 | 2,74 | - | - | - | - | 5,06 | 3,86 | 3,32 | 2,84 | - |
| Qu | - | - | 43827 | 40316 | 36290 | 34107 | 31821 | - | - | - | - | 42452 | 38242 | 35965 | 33585 | - |
| ΔP | - | - | 107 | 90 | 73 | 65 | 56 | - | - | - | - | 100 | 81 | 72 | 63 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 231,9 | 218,3 | 204,2 | - | - | - | - | - | 243,4 | 229,3 | 214,6 | - |
| Pe | - | - | - | - | 58,4 | 63,7 | 69,7 | - | - | - | - | - | 59,8 | 65,1 | 71,0 | - |
| EER | - | - | - | - | 3,97 | 3,43 | 2,93 | - | - | - | - | - | 4,07 | 3,52 | 3,02 | - |
| Qu | - | - | - | - | 40243 | 37871 | 35395 | - | - | - | - | - | 42293 | 39823 | 37249 | - |
| ΔP | - | - | - | - | 90 | 80 | 70 | - | - | - | - | - | 99 | 88 | 77 | - |

**Data 14511:2018**

| | |
|---|---|
| **TA b.s.** | External air temperature with dry bulb (°C) |
| **TWu** | Temperature of System side Water Produced (°C) |
| **Glycol** | Suggested ethylene glycol percentage (%) |
| **Pc** | Cooling capacity [kW] |
| **Pe** | Input power (kW) |
| **Qu** | System side Water flow rate [l/h] |
| **ΔP** | Pressure drop to the exchanger (kPa) |
| - | Conditions outside the operating range |

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve o | valve X
double valve Y

TWu -10 °C | TWu 4 °C | TWu 18 °C

## OPERATION IN COOLING MODE - VERSION E

■ = DCPX standard

**0752 E**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 155,3 | 150,9 | 143,5 | 132,1 | 117,8 | - | - | - | 166,6 | 162,0 | 153,8 | 141,5 | 126,2 | - | - | - |
| Pe | 27,1 | 30,0 | 35,7 | 43,2 | 53,6 | - | - | - | 27,9 | 30,7 | 36,3 | 43,9 | 54,4 | - | - | - |
| EER | 5,72 | 5,04 | 4,02 | 3,06 | 2,20 | - | - | - | 5,98 | 5,28 | 4,23 | 3,22 | 2,32 | - | - | - |
| Qu | 30021 | 29167 | 27726 | 25515 | 22748 | - | - | - | 31944 | 31049 | 29475 | 27095 | 24161 | - | - | - |
| ΔP | 53 | 50 | 46 | 39 | 31 | - | - | - | 59 | 56 | 50 | 42 | 34 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 178,5 | 173,8 | 164,8 | 151,4 | 135,2 | 126,0 | - | - | 190,6 | 186,2 | 176,2 | 161,8 | 144,5 | 134,8 | 124,4 | - |
| Pe | 28,7 | 31,5 | 37,1 | 44,7 | 55,2 | 61,6 | - | - | 29,5 | 32,3 | 37,9 | 45,6 | 56,1 | 62,5 | 69,6 | - |
| EER | 6,23 | 5,52 | 4,44 | 3,39 | 2,45 | 2,05 | - | - | 6,45 | 5,76 | 4,65 | 3,55 | 2,57 | 2,16 | 1,79 | - |
| Qu | 33957 | 32936 | 31212 | 28669 | 25571 | 23829 | - | - | 36227 | 34906 | 33018 | 30308 | 27045 | 25220 | 23274 | - |
| ΔP | 65 | 60 | 54 | 46 | 36 | 32 | - | - | 73 | 66 | 59 | 50 | 40 | 34 | 29 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 203,0 | 199,1 | 188,1 | 172,6 | 154,2 | 144,0 | 133,1 | - | 215,9 | 212,5 | 200,3 | 183,9 | 164,4 | 153,6 | 142,1 | 134,3 |
| Pe | 30,5 | 33,3 | 38,8 | 46,5 | 57,2 | 63,6 | 70,7 | - | 31,5 | 34,3 | 39,9 | 47,6 | 58,2 | 64,7 | 71,8 | 77,3 |
| EER | 6,66 | 5,98 | 4,84 | 3,71 | 2,70 | 2,27 | 1,88 | - | 6,85 | 6,20 | 5,02 | 3,87 | 2,82 | 2,37 | 1,98 | 1,74 |
| Qu | 38583 | 36957 | 34891 | 32011 | 28580 | 26672 | 24641 | - | 41021 | 39087 | 36833 | 33780 | 30177 | 28182 | 26065 | 24634 |
| ΔP | 82 | 72 | 64 | 54 | 43 | 38 | 32 | - | 92 | 79 | 70 | 59 | 47 | 41 | 35 | 31 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 229,2 | 226,6 | 213,3 | 195,7 | 175,1 | 163,7 | 151,6 | 143,8 | 242,8 | 240,9 | 226,4 | 207,7 | 185,9 | 174,0 | 161,3 | 153,5 |
| Pe | 32,6 | 35,4 | 41,0 | 48,7 | 59,4 | 65,9 | 73,1 | 78,4 | 33,8 | 36,5 | 42,2 | 50,0 | 60,7 | 67,2 | 74,4 | 79,6 |
| EER | 7,02 | 6,41 | 5,20 | 4,02 | 2,95 | 2,48 | 2,07 | 1,83 | 7,18 | 6,60 | 5,37 | 4,16 | 3,07 | 2,59 | 2,17 | 1,93 |
| Qu | 43534 | 41229 | 38782 | 35558 | 31785 | 29705 | 27504 | 26087 | 46119 | 43514 | 40863 | 37460 | 33505 | 31336 | 29044 | 27639 |
| ΔP | 104 | 85 | 76 | 64 | 51 | 44 | 38 | 34 | 116 | 93 | 82 | 69 | 55 | 48 | 42 | 38 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | - | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 256,8 | 254,8 | 241,7 | 221,7 | 198,7 | 186,0 | 172,6 | 164,8 | - | 261,8 | 248,3 | 227,8 | 204,1 | **191,7** | 177,5 | 169,7 |
| Pe | 35,1 | 37,8 | 43,4 | 51,3 | 62,1 | 68,6 | 75,9 | 81,2 | - | 38,4 | 44,1 | 52,0 | 62,8 | **69,3** | 76,6 | 81,8 |
| EER | 7,31 | 6,75 | 5,57 | 4,32 | 3,20 | 2,71 | 2,27 | 2,03 | - | 6,81 | 5,63 | 4,38 | 3,25 | **2,77** | 2,32 | 2,07 |
| Qu | 48771 | 46041 | 41775 | 38291 | 34272 | 32075 | 29759 | 28408 | - | 47327 | 42936 | 39353 | 35234 | **33000** | 30619 | 29276 |
| ΔP | 129 | 104 | 83 | 69 | 56 | 49 | 42 | 38 | - | 110 | 87 | 73 | 59 | **51** | 44 | 41 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 269,0 | 254,9 | 233,8 | 209,6 | 196,4 | 182,5 | - | - | - | 268,4 | 246,2 | 220,9 | 207,1 | 192,6 | - |
| Pe | - | 39,1 | 44,8 | 52,7 | 63,5 | 70,0 | 77,3 | - | - | - | 46,3 | 54,1 | 64,9 | 71,5 | 78,8 | - |
| EER | - | 6,87 | 5,69 | 4,44 | 3,30 | 2,81 | 2,36 | - | - | - | 5,80 | 4,55 | 3,40 | 2,90 | 2,45 | - |
| Qu | - | 48625 | 44111 | 40429 | 36208 | 33909 | 31491 | - | - | - | 46502 | 42619 | 38194 | 35792 | 33270 | - |
| ΔP | - | 116 | 92 | 77 | 62 | 54 | 47 | - | - | - | 102 | 86 | 69 | 61 | 52 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 282,1 | 258,8 | 232,3 | 218,0 | 202,9 | - | - | - | - | 271,6 | 244,0 | 229,1 | 213,4 | - |
| Pe | - | - | 47,8 | 55,7 | 66,5 | 73,0 | 80,3 | - | - | - | - | 57,3 | 68,1 | 74,7 | 81,9 | - |
| EER | - | - | 5,90 | 4,65 | 3,49 | 2,99 | 2,53 | - | - | - | - | 4,74 | 3,58 | 3,07 | 2,60 | - |
| Qu | - | - | 48948 | 44860 | 40228 | 37720 | 35092 | - | - | - | - | 47150 | 42306 | 39692 | 36956 | - |
| ΔP | - | - | 113 | 95 | 77 | 67 | 58 | - | - | - | - | 105 | 85 | 74 | 65 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 284,7 | 255,9 | 240,4 | 224,2 | - | - | - | - | - | 268,0 | 251,9 | 235,1 | - |
| Pe | - | - | - | 59,1 | 69,9 | 76,4 | 83,7 | - | - | - | - | - | 71,7 | 78,2 | 85,5 | - |
| EER | - | - | - | 4,82 | 3,66 | 3,15 | 2,68 | - | - | - | - | - | 3,74 | 3,22 | 2,75 | - |
| Qu | - | - | - | 49486 | 44427 | 41704 | 38859 | - | - | - | - | - | 46589 | 43755 | 40799 | - |
| ΔP | - | - | - | 116 | 93 | 82 | 71 | - | - | - | - | - | 103 | 91 | 79 | - |

**Data 14511:2018**

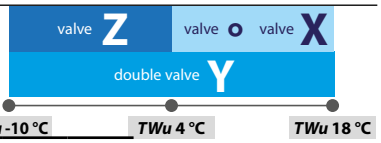
**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
**-** Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN COOLING MODE - VERSION E

■ = DCPX standard




**0604 E**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 97,2 | 93,5 | 86,9 | 77,9 | 67,4 | - | - | - | 104,6 | 100,8 | 93,8 | 84,3 | 73,1 | - | - | - |
| Pe | 16,8 | 18,8 | 23,1 | 28,4 | 34,9 | - | - | - | 17,3 | 19,3 | 23,5 | 28,8 | 35,5 | - | - | - |
| EER | 5,78 | 4,97 | 3,76 | 2,75 | 1,93 | - | - | - | 6,06 | 5,24 | 3,99 | 2,92 | 2,06 | - | - | - |
| Qu | 18777 | 18063 | 16785 | 15036 | 12996 | - | - | - | 20038 | 19311 | 17970 | 16128 | 13984 | - | - | - |
| ΔP | 37 | 34 | 30 | 24 | 18 | - | - | - | 41 | 38 | 33 | 26 | 20 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 112,4 | 108,6 | 101,2 | 91,0 | 79,2 | 72,8 | - | - | 120,3 | 116,8 | 108,9 | 98,1 | 85,6 | 78,8 | 71,6 | - |
| Pe | 17,7 | 19,7 | 24,0 | 29,3 | 36,1 | 40,1 | - | - | 18,2 | 20,2 | 24,5 | 29,8 | 36,6 | 40,7 | 45,3 | - |
| EER | 6,34 | 5,51 | 4,22 | 3,11 | 2,20 | 1,81 | - | - | 6,60 | 5,78 | 4,45 | 3,29 | 2,34 | 1,93 | 1,58 | - |
| Qu | 21362 | 20566 | 19155 | 17222 | 14978 | 13750 | - | - | 22855 | 21881 | 20386 | 18360 | 16013 | 14730 | 13379 | - |
| ΔP | 45 | 42 | 36 | 29 | 22 | 19 | - | - | 51 | 46 | 40 | 32 | 25 | 21 | 17 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 128,6 | 125,4 | 116,9 | 105,5 | 92,3 | 85,1 | 77,5 | - | 137,2 | 134,3 | 125,2 | 113,1 | 99,2 | 91,6 | 83,7 | 77,4 |
| Pe | 18,8 | 20,8 | 25,0 | 30,4 | 37,3 | 41,4 | 46,0 | - | 19,4 | 21,4 | 25,5 | 30,9 | 37,9 | 42,1 | 46,8 | 52,2 |
| EER | 6,84 | 6,04 | 4,68 | 3,47 | 2,48 | 2,06 | 1,68 | - | 7,07 | 6,28 | 4,91 | 3,66 | 2,62 | 2,18 | 1,79 | 1,48 |
| Qu | 24412 | 23252 | 21666 | 19542 | 17089 | 15750 | 14339 | - | 26028 | 24680 | 22993 | 20769 | 18207 | 16808 | 15337 | 14183 |
| ΔP | 58 | 50 | 44 | 36 | 27 | 23 | 19 | - | 66 | 56 | 48 | 39 | 30 | 26 | 21 | 18 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 146,1 | 143,7 | 133,9 | 121,2 | 106,6 | 98,6 | 90,2 | 83,7 | 155,2 | 153,3 | 142,8 | 129,4 | 114,0 | 105,6 | 96,8 | 90,3 |
| Pe | 20,1 | 22,0 | 26,1 | 31,5 | 38,6 | 42,8 | 47,5 | 52,8 | 20,8 | 22,7 | 26,7 | 32,2 | 39,3 | 43,5 | 48,3 | 53,5 |
| EER | 7,28 | 6,53 | 5,13 | 3,84 | 2,76 | 2,30 | 1,90 | 1,58 | 7,45 | 6,76 | 5,34 | 4,02 | 2,91 | 2,43 | 2,00 | 1,69 |
| Qu | 27701 | 26122 | 24330 | 22006 | 19335 | 17879 | 16347 | 15179 | 29428 | 27662 | 25755 | 23324 | 20536 | 19017 | 17422 | 16244 |
| ΔP | 74 | 61 | 53 | 43 | 33 | 28 | 24 | 20 | 83 | 67 | 58 | 47 | 37 | 32 | 26 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 164,6 | 162,7 | 153,2 | 139,0 | 122,7 | 113,8 | 104,5 | 97,8 | 169,4 | 167,5 | 157,7 | 143,1 | 126,5 | **117,6** | 107,9 | 101,2 |
| Pe | 21,6 | 23,5 | 27,4 | 32,9 | 40,1 | 44,4 | 49,3 | 54,2 | 22,1 | 23,9 | 27,8 | 33,3 | 40,4 | **44,7** | 49,7 | 54,5 |
| EER | 7,61 | 6,93 | 5,58 | 4,22 | 3,06 | 2,56 | 2,12 | 1,80 | 7,67 | 7,01 | 5,67 | 4,30 | 3,13 | **2,63** | 2,17 | 1,86 |
| Qu | 31206 | 29361 | 26445 | 23978 | 21153 | 19616 | 18001 | 16855 | 32113 | 30227 | 27237 | 24709 | 21818 | **20254** | 18594 | 17449 |
| ΔP | 93 | 75 | 58 | 48 | 37 | 32 | 27 | 24 | 98 | 79 | 62 | 51 | 40 | **34** | 29 | 25 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 172,4 | 162,2 | 147,3 | 130,3 | 121,0 | 111,3 | - | - | - | 171,5 | 155,9 | 138,1 | 128,5 | 118,3 | - |
| Pe | - | 24,3 | 28,2 | 33,6 | 40,8 | 45,1 | 50,1 | - | - | - | 29,0 | 34,4 | 41,6 | 46,0 | 50,9 | - |
| EER | - | 7,09 | 5,76 | 4,38 | 3,19 | 2,68 | 2,22 | - | - | - | 5,92 | 4,53 | 3,32 | 2,79 | 2,32 | - |
| Qu | - | 31106 | 28039 | 25450 | 22492 | 20884 | 19196 | - | - | - | 29675 | 26961 | 23868 | 22188 | 20424 | - |
| ΔP | - | 84 | 66 | 54 | 42 | 36 | 31 | - | - | - | 74 | 61 | 48 | 41 | 35 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 181,0 | 164,7 | 146,1 | 136,0 | 125,5 | - | - | - | - | 173,6 | 154,3 | 143,8 | 132,8 | - |
| Pe | - | - | 29,9 | 35,2 | 42,4 | 46,8 | 51,8 | - | - | - | - | 36,2 | 43,4 | 47,8 | 52,8 | - |
| EER | - | - | 6,05 | 4,67 | 3,44 | 2,90 | 2,42 | - | - | - | - | 4,80 | 3,56 | 3,01 | 2,52 | - |
| Qu | - | - | 31351 | 28510 | 25278 | 23524 | 21683 | - | - | - | - | 30096 | 26721 | 24892 | 22974 | - |
| ΔP | - | - | 82 | 68 | 53 | 46 | 39 | - | - | - | - | 76 | 60 | 52 | 44 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | 182,8 | 162,7 | 151,7 | 140,3 | - | - | - | - | - | 171,2 | 159,8 | 147,9 | - |
| Pe | - | - | - | 37,2 | 44,3 | 48,8 | 53,8 | - | - | - | - | - | 45,4 | 49,8 | 54,9 | - |
| EER | - | - | - | 4,91 | 3,67 | 3,11 | 2,61 | - | - | - | - | - | 3,77 | 3,21 | 2,70 | - |
| Qu | - | - | - | 31716 | 28197 | 26291 | 24293 | - | - | - | - | - | 29703 | 27719 | 25639 | - |
| ΔP | - | - | - | 84 | 66 | 58 | 49 | - | - | - | - | - | 74 | 64 | 55 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
**-** Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve O | valve X | double valve Y

TWu -10 °C | TWu 4 °C | TWu 18 °C

## OPERATION IN COOLING MODE - VERSION E

■ = DCPX standard

**0654 E**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | 29 | - | - |
| Pc | 105,6 | 102,8 | 97,4 | 88,7 | 77,9 | - | - | - | 114,2 | 111,3 | 105,4 | 96,0 | 84,5 | 78,0 | - | - |
| Pe | 20,5 | 22,0 | 26,2 | 31,8 | 38,9 | - | - | - | 21,0 | 22,4 | 26,6 | 32,2 | 39,4 | 43,6 | - | - |
| EER | 5,15 | 4,66 | 3,71 | 2,79 | 2,00 | - | - | - | 5,45 | 4,96 | 3,96 | 2,98 | 2,15 | 1,79 | - | - |
| Qu | 20420 | 19871 | 18818 | 17136 | 15027 | - | - | - | 21899 | 21336 | 20187 | 18395 | 16176 | 14933 | - | - |
| ΔP | 44 | 41 | 37 | 31 | 24 | - | - | - | 49 | 47 | 42 | 35 | 27 | 23 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 123,3 | 120,4 | 113,9 | 103,9 | 91,6 | 84,8 | - | - | 132,6 | 130,0 | 122,8 | 112,1 | 99,1 | 91,9 | 84,3 | - |
| Pe | 21,4 | 22,9 | 26,9 | 32,6 | 39,8 | 44,1 | - | - | 22,0 | 23,4 | 27,3 | 32,9 | 40,3 | 44,6 | 49,6 | - |
| EER | 5,75 | 5,26 | 4,23 | 3,19 | 2,30 | 1,92 | - | - | 6,03 | 5,55 | 4,49 | 3,40 | 2,46 | 2,06 | 1,70 | - |
| Qu | 23451 | 22812 | 21565 | 19662 | 17333 | 16036 | - | - | 25198 | 24360 | 23005 | 20987 | 18544 | 17190 | 15761 | - |
| ΔP | 55 | 51 | 46 | 38 | 30 | 25 | - | - | 63 | 57 | 51 | 42 | 33 | 28 | 24 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 142,3 | 140,0 | 132,1 | 120,7 | 106,9 | 99,3 | 91,3 | - | 152,3 | 150,4 | 141,9 | 129,6 | 115,1 | 107,1 | 98,7 | 86,5 |
| Pe | 22,6 | 24,0 | 27,7 | 33,3 | 40,7 | 45,1 | 50,1 | - | 23,2 | 24,6 | 28,2 | 33,8 | 41,2 | 45,7 | 50,7 | 59,8 |
| EER | 6,31 | 5,84 | 4,76 | 3,62 | 2,63 | 2,20 | 1,82 | - | 6,55 | 6,13 | 5,03 | 3,84 | 2,80 | 2,34 | 1,95 | 1,45 |
| Qu | 27024 | 25977 | 24510 | 22372 | 19809 | 18396 | 16906 | - | 28929 | 27666 | 26081 | 23818 | 21130 | 19653 | 18101 | 15869 |
| ΔP | 72 | 63 | 56 | 47 | 37 | 32 | 27 | - | 82 | 70 | 62 | 52 | 41 | 35 | 30 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 162,8 | 161,5 | 152,2 | 139,2 | 123,7 | 115,3 | 106,5 | 93,9 | 173,7 | 172,9 | 162,8 | 148,9 | 132,7 | 123,8 | 114,5 | 101,4 |
| Pe | 24,0 | 25,3 | 28,7 | 34,2 | 41,7 | 46,2 | 51,3 | 60,4 | 24,9 | 26,0 | 29,3 | 34,7 | 42,2 | 46,7 | 51,9 | 60,9 |
| EER | 6,78 | 6,40 | 5,30 | 4,07 | 2,97 | 2,50 | 2,07 | 1,55 | 6,99 | 6,64 | 5,56 | 4,29 | 3,15 | 2,65 | 2,20 | 1,66 |
| Qu | 30914 | 29385 | 27678 | 25287 | 22473 | 20932 | 19317 | 17021 | 32977 | 31229 | 29389 | 26861 | 23910 | 22301 | 20616 | 18258 |
| ΔP | 93 | 77 | 68 | 57 | 45 | 39 | 33 | 26 | 105 | 85 | 76 | 63 | 50 | 44 | 37 | 29 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 184,9 | 184,1 | 175,2 | 160,3 | 143,0 | 133,6 | 123,7 | 110,2 | 190,7 | 189,9 | 180,6 | 165,3 | 147,6 | **138,3** | 127,9 | 114,1 |
| Pe | 25,8 | 26,9 | 29,9 | 35,3 | 42,8 | 47,4 | 52,6 | 61,6 | 26,3 | 27,3 | 30,3 | 35,6 | 43,0 | **47,7** | 52,9 | 61,8 |
| EER | 7,17 | 6,85 | 5,85 | 4,54 | 3,34 | 2,82 | 2,35 | 1,79 | 7,25 | 6,95 | 5,96 | 4,65 | 3,43 | **2,90** | 2,42 | 1,85 |
| Qu | 35118 | 33271 | 30274 | 27681 | 24676 | 23044 | 21338 | 18990 | 36217 | 34320 | 31233 | 28563 | 25480 | **23818** | 22062 | 19682 |
| ΔP | 118 | 97 | 77 | 64 | 51 | 45 | 38 | 30 | 126 | 103 | 82 | 68 | 54 | **48** | 41 | 33 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 195,8 | 186,1 | 170,4 | 152,2 | 142,4 | 132,1 | - | - | - | 197,4 | 180,8 | 161,8 | 151,4 | 140,7 | - |
| Pe | - | 27,8 | 30,7 | 35,9 | 43,3 | 47,9 | 53,2 | - | - | - | 31,5 | 36,5 | 43,9 | 48,5 | 53,8 | - |
| EER | - | 7,04 | 6,07 | 4,75 | 3,51 | 2,97 | 2,48 | - | - | - | 6,27 | 4,95 | 3,69 | 3,12 | 2,61 | - |
| Qu | - | 35386 | 32208 | 29460 | 26297 | 24585 | 22799 | - | - | - | 34208 | 31300 | 27975 | 26180 | 24311 | - |
| ΔP | - | 109 | 87 | 73 | 58 | 51 | 44 | - | - | - | 98 | 82 | 66 | 58 | 50 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 209,0 | 191,5 | 171,6 | 160,8 | 149,6 | - | - | - | - | 202,5 | 181,7 | 170,4 | 158,7 | - |
| Pe | - | - | 32,4 | 37,3 | 44,5 | 49,1 | 54,5 | - | - | - | - | 38,1 | 45,3 | 49,8 | 55,1 | - |
| EER | - | - | 6,45 | 5,14 | 3,85 | 3,27 | 2,75 | - | - | - | - | 5,31 | 4,01 | 3,42 | 2,88 | - |
| Qu | - | - | 36276 | 33202 | 29708 | 27829 | 25874 | - | - | - | - | 35165 | 31498 | 29531 | 27488 | - |
| ΔP | - | - | 110 | 92 | 74 | 65 | 56 | - | - | - | - | 104 | 83 | 73 | 63 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 192,0 | 180,3 | 168,1 | - | - | - | - | - | 202,7 | 190,5 | 177,8 | - |
| Pe | - | - | - | - | 46,1 | 50,6 | 55,9 | - | - | - | - | - | 46,9 | 51,4 | 56,7 | - |
| EER | - | - | - | - | 4,17 | 3,56 | 3,01 | - | - | - | - | - | 4,32 | 3,70 | 3,14 | - |
| Qu | - | - | - | - | 33344 | 31286 | 29152 | - | - | - | - | - | 35245 | 33095 | 30867 | - |
| ΔP | - | - | - | - | 93 | 82 | 71 | - | - | - | - | - | 104 | 92 | 80 | - |

**Data 14511:2018**

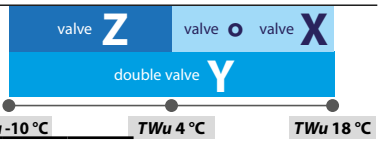
**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
**-** Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN COOLING MODE - VERSION E

■ = DCPX standard




**0704 E**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | 29 | - | - |
| Pc | 128,4 | 124,3 | 117,5 | 106,6 | 92,7 | - | - | - | 138,6 | 134,4 | 126,9 | 115,3 | 100,7 | 92,4 | - | - |
| Pe | 23,1 | 25,8 | 30,9 | 37,2 | 45,6 | - | - | - | 23,5 | 26,2 | 31,3 | 37,6 | 46,1 | 51,1 | - | - |
| EER | 5,56 | 4,81 | 3,80 | 2,87 | 2,03 | - | - | - | 5,91 | 5,12 | 4,06 | 3,07 | 2,19 | 1,81 | - | - |
| Qu | 24811 | 24024 | 22693 | 20585 | 17893 | - | - | - | 26562 | 25751 | 24304 | 22069 | 19263 | 17669 | - | - |
| ΔP | 46 | 43 | 39 | 32 | 24 | - | - | - | 52 | 49 | 43 | 36 | 27 | 23 | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 149,4 | 145,1 | 136,9 | 124,4 | 109,1 | 100,4 | - | - | 160,4 | 156,4 | 147,3 | 134,0 | 117,8 | 108,8 | 99,2 | - |
| Pe | 23,8 | 26,6 | 31,7 | 38,1 | 46,6 | 51,7 | - | - | 24,2 | 27,1 | 32,1 | 38,6 | 47,2 | 52,3 | 58,0 | - |
| EER | 6,27 | 5,45 | 4,32 | 3,27 | 2,34 | 1,94 | - | - | 6,61 | 5,78 | 4,58 | 3,47 | 2,50 | 2,08 | 1,71 | - |
| Qu | 28401 | 27492 | 25917 | 23553 | 20630 | 18985 | - | - | 30473 | 29316 | 27595 | 25095 | 22050 | 20348 | 18540 | - |
| ΔP | 58 | 53 | 48 | 39 | 30 | 26 | - | - | 66 | 59 | 52 | 43 | 33 | 28 | 24 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 171,8 | 168,3 | 158,2 | 144,0 | 127,0 | 117,5 | 107,5 | - | 183,7 | 180,6 | 169,5 | 154,4 | 136,4 | 126,5 | 116,1 | 102,2 |
| Pe | 24,7 | 27,5 | 32,6 | 39,2 | 47,8 | 53,0 | 58,7 | - | 25,3 | 28,0 | 33,2 | 39,8 | 48,5 | 53,7 | 59,5 | 69,2 |
| EER | 6,95 | 6,11 | 4,85 | 3,68 | 2,65 | 2,22 | 1,83 | - | 7,27 | 6,44 | 5,11 | 3,88 | 2,81 | 2,36 | 1,95 | 1,48 |
| Qu | 32636 | 31221 | 29340 | 26697 | 23522 | 21760 | 19892 | - | 34887 | 33207 | 31155 | 28361 | 25047 | 23219 | 21290 | 18734 |
| ΔP | 75 | 65 | 58 | 48 | 37 | 32 | 27 | - | 85 | 72 | 64 | 53 | 41 | 35 | 30 | 23 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 196,0 | 193,6 | 181,5 | 165,4 | 146,4 | 136,1 | 125,1 | 110,8 | 208,8 | 206,9 | 193,7 | 176,6 | 156,6 | 145,8 | 134,4 | 119,7 |
| Pe | 25,8 | 28,6 | 33,8 | 40,4 | 49,3 | 54,5 | 60,3 | 69,8 | 26,5 | 29,2 | 34,5 | 41,1 | 50,0 | 55,3 | 61,1 | 70,5 |
| EER | 7,58 | 6,77 | 5,37 | 4,09 | 2,97 | 2,50 | 2,08 | 1,59 | 7,88 | 7,08 | 5,62 | 4,29 | 3,13 | 2,64 | 2,20 | 1,70 |
| Qu | 37224 | 35220 | 32988 | 30041 | 26585 | 24690 | 22698 | 20096 | 39643 | 37371 | 34950 | 31834 | 28223 | 26255 | 24191 | 21539 |
| ΔP | 96 | 79 | 69 | 58 | 45 | 39 | 33 | 26 | 109 | 87 | 77 | 63 | 50 | 43 | 37 | 29 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | - | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 221,9 | 220,0 | 207,9 | 189,6 | 168,4 | 157,0 | 145,0 | 129,8 | - | 226,7 | 214,1 | 195,2 | 173,6 | **162,3** | 149,7 | 134,4 |
| Pe | 27,2 | 29,9 | 35,2 | 41,9 | 50,9 | 56,2 | 62,1 | 71,4 | - | 30,3 | 35,5 | 42,3 | 51,3 | **56,7** | 62,6 | 71,7 |
| EER | 8,16 | 7,36 | 5,91 | 4,52 | 3,31 | 2,79 | 2,33 | 1,82 | - | 7,49 | 6,02 | 4,61 | 3,38 | **2,87** | 2,39 | 1,87 |
| Qu | 42142 | 39749 | 35920 | 32725 | 29057 | 27070 | 24992 | 22370 | - | 40965 | 37014 | 33724 | 29966 | **27946** | 25814 | 23165 |
| ΔP | 122 | 99 | 78 | 64 | 51 | 44 | 38 | 30 | - | 105 | 82 | 68 | 54 | **47** | 40 | 32 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | 10 | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | 233,5 | 220,3 | 201,0 | 178,8 | 166,9 | 154,4 | - | - | - | 233,1 | 212,7 | 189,5 | 177,1 | 164,1 | - |
| Pe | - | 30,6 | 35,9 | 42,7 | 51,7 | 57,1 | 63,0 | - | - | - | 36,8 | 43,6 | 52,6 | 58,0 | 63,9 | - |
| EER | - | 7,62 | 6,13 | 4,70 | 3,46 | 2,92 | 2,45 | - | - | - | 6,34 | 4,88 | 3,60 | 3,05 | 2,57 | - |
| Qu | - | 42198 | 38125 | 34738 | 30887 | 28811 | 26646 | - | - | - | 40397 | 36811 | 32769 | 30600 | 28345 | - |
| ΔP | - | 111 | 87 | 72 | 57 | 50 | 43 | - | - | - | 98 | 81 | 65 | 56 | 48 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | - | 224,7 | 200,5 | 187,5 | 174,0 | - | - | - | - | 237,0 | 211,6 | 198,1 | 184,1 | - |
| Pe | - | - | - | 44,5 | 53,5 | 58,9 | 64,8 | - | - | - | - | 45,5 | 54,5 | 59,9 | 65,8 | - |
| EER | - | - | - | 5,05 | 3,74 | 3,18 | 2,68 | - | - | - | - | 5,21 | 3,88 | 3,31 | 2,80 | - |
| Qu | - | - | - | 38943 | 34702 | 32437 | 30088 | - | - | - | - | 41134 | 36687 | 34322 | 31874 | - |
| ΔP | - | - | - | 91 | 72 | 63 | 54 | - | - | - | - | 102 | 81 | 71 | 61 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | 0 |
| Pc | - | - | - | - | 223,1 | 209,0 | 194,4 | - | - | - | - | - | 234,8 | 220,1 | 205,0 | 0,0 |
| Pe | - | - | - | - | 55,6 | 61,0 | 66,9 | - | - | - | - | - | 56,7 | 62,1 | 68,0 | 0,0 |
| EER | - | - | - | - | 4,01 | 3,43 | 2,91 | - | - | - | - | - | 4,14 | 3,55 | 3,01 | 0,00 |
| Qu | - | - | - | - | 38722 | 36252 | 33703 | - | - | - | - | - | 40806 | 38229 | 35574 | 0 |
| ΔP | - | - | - | - | 90 | 79 | 68 | - | - | - | - | - | 100 | 88 | 76 | 0 |

**Data 14511:2018**

| | |
|---|---|
| **TA b.s.** | External air temperature with dry bulb (°C) |
| **TWu** | Temperature of System side Water Produced (°C) |
| **Glycol** | Suggested ethylene glycol percentage (%) |
| **Pc** | Cooling capacity [kW] |
| **Pe** | Input power (kW) |
| **Qu** | System side Water flow rate [l/h] |
| **ΔP** | Pressure drop to the exchanger (kPa) |
| - | Conditions outside the operating range |

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

valve Z | valve o | valve X | double valve Y

TWu -10 °C | TWu 4 °C | TWu 18 °C

## OPERATION IN COOLING MODE - VERSION E

■ = DCPX standard

**0754 E**

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -10 | | | | | | | | -8 | | | | | | | |
| Glycol | 31 | 31 | 31 | 31 | 31 | - | - | - | 29 | 29 | 29 | 29 | 29 | - | - | - |
| Pc | 144,1 | 139,7 | 132,0 | 120,0 | 105,1 | - | - | - | 155,3 | 150,8 | 142,5 | 129,6 | 113,9 | - | - | - |
| Pe | 25,1 | 28,3 | 34,4 | 41,4 | 50,6 | - | - | - | 25,7 | 28,9 | 34,9 | 42,0 | 51,4 | - | - | - |
| EER | 5,74 | 4,93 | 3,84 | 2,90 | 2,08 | - | - | - | 6,05 | 5,21 | 4,08 | 3,08 | 2,22 | - | - | - |
| Qu | 27853 | 27008 | 25507 | 23165 | 20287 | - | - | - | 29775 | 28903 | 27297 | 24812 | 21788 | - | - | - |
| ΔP | 49 | 46 | 41 | 34 | 26 | - | - | - | 55 | 51 | 46 | 38 | 29 | - | - | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -6 | | | | | | | | -4 | | | | | | | |
| Glycol | 27 | 26 | 26 | 26 | 26 | 26 | - | - | 27 | 23 | 23 | 23 | 23 | 23 | 23 | - |
| Pc | 167,3 | 162,7 | 153,6 | 139,8 | 123,2 | 113,9 | - | - | 179,4 | 175,2 | 165,3 | 150,5 | 132,9 | 123,2 | 113,0 | - |
| Pe | 26,3 | 29,6 | 35,6 | 42,8 | 52,2 | 57,7 | - | - | 27,0 | 30,3 | 36,3 | 43,5 | 53,1 | 58,7 | 64,8 | - |
| EER | 6,36 | 5,50 | 4,32 | 3,27 | 2,36 | 1,97 | - | - | 6,64 | 5,79 | 4,56 | 3,46 | 2,50 | 2,10 | 1,74 | - |
| Qu | 31802 | 30822 | 29092 | 26464 | 23295 | 21547 | - | - | 34094 | 32840 | 30962 | 28184 | 24865 | 23041 | 21126 | - |
| ΔP | 61 | 57 | 50 | 42 | 32 | 28 | - | - | 69 | 62 | 56 | 46 | 36 | 31 | 26 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | -2 | | | | | | | | 0 | | | | | | | |
| Glycol | 27 | 20 | 20 | 20 | 20 | 20 | 20 | - | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| Pc | 192,0 | 188,3 | 177,4 | 161,7 | 143,0 | 132,8 | 122,1 | - | 205,2 | 202,0 | 190,0 | 173,3 | 153,6 | 142,8 | 131,5 | 122,4 |
| Pe | 27,8 | 31,0 | 37,0 | 44,4 | 54,0 | 59,6 | 65,9 | - | 28,6 | 31,8 | 37,9 | 45,3 | 55,0 | 60,7 | 66,9 | 73,9 |
| EER | 6,92 | 6,07 | 4,79 | 3,64 | 2,65 | 2,23 | 1,85 | - | 7,18 | 6,35 | 5,02 | 3,83 | 2,79 | 2,35 | 1,96 | 1,66 |
| Qu | 36489 | 34951 | 32907 | 29974 | 26498 | 24594 | 22599 | - | 38983 | 37154 | 34929 | 31832 | 28193 | 26206 | 24128 | 22443 |
| ΔP | 79 | 69 | 61 | 51 | 40 | 34 | 29 | - | 89 | 76 | 67 | 56 | 44 | 38 | 32 | 28 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 2 | | | | | | | | 4 | | | | | | | |
| Glycol | 27 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 27 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Pc | 218,9 | 216,5 | 203,3 | 185,5 | 164,7 | 153,4 | 141,5 | 132,1 | 233,0 | 231,2 | 216,9 | 198,0 | 176,1 | 164,1 | 151,7 | 142,1 |
| Pe | 29,5 | 32,7 | 38,8 | 46,2 | 56,0 | 61,8 | 68,1 | 74,8 | 30,5 | 33,6 | 39,8 | 47,3 | 57,1 | 62,9 | 69,3 | 75,8 |
| EER | 7,42 | 6,62 | 5,24 | 4,01 | 2,94 | 2,48 | 2,08 | 1,77 | 7,64 | 6,87 | 5,46 | 4,19 | 3,08 | 2,61 | 2,19 | 1,88 |
| Qu | 41570 | 39385 | 36968 | 33708 | 29904 | 27833 | 25670 | 23964 | 44246 | 41766 | 39145 | 35709 | 31726 | 29565 | 27311 | 25587 |
| ΔP | 101 | 83 | 73 | 61 | 48 | 42 | 35 | 31 | 114 | 92 | 81 | 67 | 53 | 46 | 39 | 35 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 6 | | | | | | | | 7 | | | | | | | |
| Glycol | 27 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | - | 10 | 0 | 0 | 0 | **0** | 0 | 0 |
| Pc | 247,5 | 245,7 | 232,7 | 212,5 | 189,2 | 176,6 | 163,4 | 153,7 | - | 253,0 | 239,5 | 218,8 | 195,0 | **182,6** | 168,6 | 158,9 |
| Pe | 31,5 | 34,7 | 40,8 | 48,4 | 58,4 | 64,3 | 70,7 | 77,0 | - | 35,2 | 41,3 | 49,0 | 59,0 | **64,9** | 71,3 | 77,5 |
| EER | 7,85 | 7,09 | 5,71 | 4,39 | 3,24 | 2,75 | 2,31 | 2,00 | - | 7,19 | 5,80 | 4,47 | 3,31 | **2,81** | 2,36 | 2,05 |
| Qu | 47002 | 44394 | 40209 | 36694 | 32644 | 30453 | 28171 | 26492 | - | 45736 | 41420 | 37806 | 33654 | **31424** | 29076 | 27395 |
| ΔP | 128 | 104 | 82 | 68 | 54 | 47 | 40 | 36 | - | 110 | 87 | 72 | 57 | **50** | 43 | 38 |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 8 | | | | | | | | 10 | | | | | | | |
| Glycol | - | - | 0 | 0 | 0 | 0 | 0 | - | - | - | 0 | 0 | 0 | 0 | 0 | - |
| Pc | - | - | 246,4 | 225,2 | 200,8 | 187,6 | 173,8 | - | - | - | 260,5 | 238,2 | 212,6 | 198,8 | 184,4 | - |
| Pe | - | - | 41,9 | 49,6 | 59,6 | 65,5 | 71,9 | - | - | - | 43,1 | 50,8 | 60,9 | 66,7 | 73,3 | - |
| EER | - | - | 5,88 | 4,54 | 3,37 | 2,86 | 2,42 | - | - | - | 6,05 | 4,69 | 3,49 | 2,98 | 2,52 | - |
| Qu | - | - | 42648 | 38933 | 34677 | 32382 | 29993 | - | - | - | 45155 | 41233 | 36765 | 34361 | 31863 | - |
| ΔP | - | - | 92 | 77 | 61 | 53 | 46 | - | - | - | 103 | 86 | 68 | 60 | 51 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 12 | | | | | | | | 14 | | | | | | | |
| Glycol | - | - | - | 0 | 0 | 0 | 0 | - | - | - | - | 0 | 0 | 0 | 0 | - |
| Pc | - | - | - | 251,5 | 224,7 | 210,3 | 195,3 | - | - | - | - | 265,0 | 237,0 | 222,0 | 206,4 | - |
| Pe | - | - | - | 52,1 | 62,2 | 68,1 | 74,6 | - | - | - | - | 53,5 | 63,6 | 69,5 | 76,1 | - |
| EER | - | - | - | 4,82 | 3,61 | 3,09 | 2,62 | - | - | - | - | 4,95 | 3,73 | 3,19 | 2,71 | - |
| Qu | - | - | - | 43592 | 38905 | 36390 | 33778 | - | - | - | - | 46007 | 41095 | 38465 | 35737 | - |
| ΔP | - | - | - | 96 | 77 | 67 | 58 | - | - | - | - | 107 | 85 | 75 | 65 | - |

| TA b.s. | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 | -10 | 0 | 10 | 20 | 30 | 35 | 40 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | 16 | | | | | | | | 18 | | | | | | | |
| Glycol | - | - | - | - | 0 | 0 | 0 | - | - | - | - | - | 0 | 0 | 0 | - |
| Pc | - | - | - | - | 249,6 | 233,9 | 217,7 | - | - | - | - | - | 262,4 | 246,1 | 229,2 | - |
| Pe | - | - | - | - | 65,1 | 71,0 | 77,6 | - | - | - | - | - | 66,7 | 72,6 | 79,2 | - |
| EER | - | - | - | - | 3,83 | 3,29 | 2,81 | - | - | - | - | - | 3,94 | 3,39 | 2,89 | - |
| Qu | - | - | - | - | 43333 | 40584 | 37738 | - | - | - | - | - | 45616 | 42746 | 39777 | - |
| ΔP | - | - | - | - | 95 | 83 | 72 | - | - | - | - | - | 105 | 92 | 80 | - |

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Pc** Cooling capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
**-** Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C

***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## YIELDS AND ABSORPTION DIFFERENT THAN NOMINAL

### OPERATION IN HEATING MODE - VERSIONS ° / L

**version °** = DCPX accessory
**version L** = DCPX accessory from 0282 to 0352 and DCPX standard from 0502 to 0754

***ATTENTION: DCPX, if provided, starts operating at 30 °C external air temperature.***

**0282 L**

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 42,8 | 54,7 | 60,0 | 70,3 | 78,0 | 82,1 | 82,9 | 35,4 | 41,8 | 53,6 | 59,0 | 69,6 | 77,4 | 81,7 | 82,6 |
| Pe | - | 10,8 | 10,9 | 11,0 | 11,3 | 11,5 | 11,7 | 11,9 | 13,7 | 13,7 | 13,8 | 13,9 | 14,1 | 14,2 | 14,3 | 14,4 |
| COP | - | 3,95 | 5,01 | 5,44 | 6,24 | 6,79 | 7,01 | 6,99 | 2,58 | 3,05 | 3,89 | 4,25 | 4,95 | 5,46 | 5,72 | 5,75 |
| Qu | - | 7354 | 9385 | 10298 | 12061 | 13362 | 14062 | 14195 | 6116 | 7220 | 9232 | 10169 | 11983 | 13314 | 14042 | 14193 |
| ΔP | - | 18 | 29 | 35 | 48 | 60 | 66 | 67 | 12 | 17 | 28 | 34 | 48 | 59 | 66 | 67 |
| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 41,2 | 52,2 | **57,5** | 68,5 | 76,5 | 80,9 | 81,9 | - | - | 51,5 | 56,9 | 67,8 | 75,9 | 80,3 | 81,4 |
| Pe | - | 17,5 | 17,5 | **17,6** | 17,7 | 17,7 | 17,7 | 17,7 | - | - | 19,7 | 19,8 | 19,9 | 19,8 | 19,8 | 19,7 |
| COP | - | 2,35 | 2,98 | **3,27** | 3,87 | 4,32 | 4,56 | 4,62 | - | - | 2,61 | 2,87 | 3,42 | 3,83 | 4,06 | 4,12 |
| Qu | - | 7126 | 9032 | **9972** | 11838 | 13200 | 13956 | 14125 | - | - | 8922 | 9861 | 11741 | 13118 | 13888 | 14066 |
| ΔP | - | 17 | 27 | **41** | 47 | 58 | 65 | 67 | - | - | 27 | 32 | 46 | 57 | 64 | 66 |

**0302 L**

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 49,0 | 61,6 | 67,5 | 79,3 | 88,1 | 93,1 | 94,4 | 41,4 | 48,3 | 60,8 | 66,9 | 78,7 | 87,5 | 92,5 | 93,8 |
| Pe | - | 13,0 | 13,0 | 13,2 | 13,4 | 13,6 | 13,9 | 14,1 | 16,1 | 16,2 | 16,3 | 16,5 | 16,5 | 16,6 | 16,7 | 16,8 |
| COP | - | 3,77 | 4,72 | 5,13 | 5,92 | 6,46 | 6,71 | 6,72 | 2,57 | 2,98 | 3,73 | 4,07 | 4,76 | 5,26 | 5,52 | 5,57 |
| Qu | - | 8415 | 10567 | 11582 | 13577 | 15083 | 15937 | 16148 | 7142 | 8329 | 10480 | 11518 | 13526 | 15035 | 15890 | 16100 |
| ΔP | - | 24 | 37 | 45 | 61 | 76 | 85 | 87 | 17 | 23 | 37 | 44 | 61 | 75 | 84 | 86 |
| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 47,7 | 59,8 | **65,7** | 77,7 | 86,6 | 91,6 | 92,8 | - | - | 59,1 | 65,2 | 77,2 | 86,0 | 91,0 | 92,2 |
| Pe | - | 20,4 | 20,6 | **20,7** | 20,7 | 20,7 | 20,7 | 20,6 | - | - | 23,0 | 23,2 | 23,2 | 23,1 | 23,0 | 23,0 |
| COP | - | 2,33 | 2,91 | **3,17** | 3,75 | 4,18 | 4,43 | 4,50 | - | - | 2,57 | 2,81 | 3,33 | 3,72 | 3,95 | 4,02 |
| Qu | - | 8249 | 10331 | **11376** | 13418 | 14930 | 15786 | 15995 | - | - | 10240 | 11286 | 13342 | 14856 | 15712 | 15921 |
| ΔP | - | 23 | 36 | **53** | 60 | 74 | 83 | 85 | - | - | 35 | 42 | 59 | 73 | 82 | 84 |

**0332 L**

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 55,6 | 71,4 | 78,9 | 93,3 | 103,5 | 108,7 | 109,8 | 46,8 | 54,9 | 70,0 | 77,3 | 91,9 | 102,4 | 107,9 | 109,3 |
| Pe | - | 14,6 | 14,6 | 14,7 | 15,0 | 15,3 | 15,6 | 15,6 | 18,0 | 18,1 | 18,3 | 18,4 | 18,3 | 18,4 | 18,6 | 18,3 |
| COP | - | 3,80 | 4,88 | 5,35 | 6,23 | 6,76 | 6,95 | 7,05 | 2,60 | 3,03 | 3,83 | 4,20 | 5,01 | 5,55 | 5,81 | 5,96 |
| Qu | - | 9563 | 12261 | 13538 | 15999 | 17737 | 18626 | 15711 | 8081 | 9480 | 12062 | 13318 | 15821 | 17619 | 18565 | 15690 |
| ΔP | - | 18 | 30 | 36 | 51 | 62 | 69 | 49 | 13 | 18 | 29 | 35 | 50 | 62 | 68 | 49 |
| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 54,0 | 68,3 | **75,3** | 90,2 | 101,0 | 106,9 | 108,0 | - | - | 67,4 | 74,5 | 89,2 | 100,2 | 106,2 | 107,4 |
| Pe | - | 22,7 | 22,9 | **23,1** | 23,0 | 22,8 | 22,7 | 22,7 | - | - | 25,7 | 25,8 | 25,7 | 25,5 | 25,3 | 25,2 |
| COP | - | 2,38 | 2,98 | **3,26** | 3,93 | 4,42 | 4,70 | 4,76 | - | - | 2,63 | 2,89 | 3,47 | 3,93 | 4,20 | 4,27 |
| Qu | - | 9358 | 11823 | **13056** | 15587 | 17444 | 18446 | 18639 | - | - | 11688 | 12913 | 15447 | 17335 | 18365 | 18577 |
| ΔP | - | 17 | 28 | **42** | 48 | 60 | 68 | 69 | - | - | 27 | 33 | 47 | 60 | 67 | 68 |

**0352 L**

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 63,7 | 80,4 | 88,5 | 104,3 | 115,5 | 121,4 | 122,5 | 53,6 | 62,8 | 78,9 | 87,0 | 103,0 | 114,5 | 120,7 | 121,9 |
| Pe | - | 17,2 | 17,3 | 17,5 | 17,6 | 17,7 | 17,7 | 17,7 | 21,4 | 21,3 | 21,3 | 21,5 | 21,7 | 21,7 | 21,6 | 21,6 |
| COP | - | 3,71 | 4,66 | 5,07 | 5,92 | 6,54 | 6,88 | 6,94 | 2,50 | 2,95 | 3,70 | 4,04 | 4,75 | 5,28 | 5,58 | 5,65 |
| Qu | - | 10944 | 13795 | 15180 | 17865 | 19774 | 20787 | 20963 | 9252 | 10824 | 13600 | 14973 | 17709 | 19673 | 20736 | 20945 |
| ΔP | - | 25 | 40 | 49 | 67 | 83 | 91 | 93 | 18 | 25 | 39 | 47 | 66 | 82 | 91 | 93 |
| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 61,5 | 77,2 | **84,9** | 101,2 | 112,9 | 119,4 | 120,9 | - | - | 76,2 | 84,1 | 100,1 | 112,0 | 118,6 | 120,1 |
| Pe | - | 26,7 | 26,7 | **26,9** | 27,0 | 27,0 | 26,9 | 26,8 | - | - | 29,9 | 30,1 | 30,1 | 30,1 | 29,9 | 29,9 |
| COP | - | 2,30 | 2,89 | **3,16** | 3,75 | 4,19 | 4,45 | 4,51 | - | - | 2,55 | 2,80 | 3,32 | 3,73 | 3,96 | 4,02 |
| Qu | - | 10651 | 13352 | **14710** | 17465 | 19482 | 20597 | 20839 | - | - | 13208 | 14563 | 17309 | 19354 | 20493 | 20753 |
| ΔP | - | 24 | 38 | **54** | 64 | 80 | 90 | 92 | - | - | 37 | 45 | 63 | 79 | 89 | 91 |

***Sizes 0282-0302-0332-0352 are only available in the silenced versions (L)***

* Simulation made with ΔT>5 (source side) for respect of "maximum water flow rate" condition

**Data 14511:2018**
**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Ph** Heating capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C
***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN HEATING MODE - VERSIONS ° / L

**version °** = DCPX accessory
**version L** = DCPX accessory from 0282 to 0352 and DCPX standard from 0502 to 0754

***ATTENTION: DCPX, if provided, starts operating at 30 °C external air temperature.***

### 0502 °/L

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 72,1 | 91,3 | 100,6 | 118,8 | 132,0 | 139,0 | 140,8 | 61,0 | 71,3 | 89,8 | 99,0 | 117,6 | 130,9 | 138,2 | 140,2 |
| Pe | - | 20,6 | 20,8 | 21,0 | 21,3 | 21,5 | 21,6 | 21,3 | 24,8 | 24,9 | 25,2 | 25,4 | 25,6 | 25,8 | 25,9 | 25,5 |
| COP | - | 3,51 | 4,39 | 4,79 | 5,58 | 6,14 | 6,43 | 6,62 | 2,46 | 2,86 | 3,57 | 3,90 | 4,58 | 5,08 | 5,34 | 5,50 |
| Qu | - | 12408 | 15690 | 17282 | 20396 | 22632 | 23825 | 20148 | 10542 | 12306 | 15485 | 17061 | 20248 | 22537 | 23779 | 20138 |
| ΔP | - | 19 | 30 | 36 | 50 | 62 | 68 | 49 | 13 | 18 | 29 | 35 | 49 | 61 | 68 | 49 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 70,1 | 87,9 | **96,8** | 115,5 | 129,2 | 136,7 | 138,3 | - | - | 86,8 | 95,8 | 114,2 | 128,0 | 135,7 | 137,4 |
| Pe | - | 30,6 | 30,8 | **31,0** | 31,3 | 31,4 | 31,4 | 31,4 | - | - | 34,1 | 34,4 | 34,6 | 34,6 | 34,6 | 34,6 |
| COP | - | 2,29 | 2,85 | **3,12** | 3,69 | 4,12 | 4,35 | 4,41 | - | - | 2,54 | 2,79 | 3,30 | 3,70 | 3,92 | 3,97 |
| Qu | - | 12141 | 15218 | **16773** | 19972 | 22315 | 23607 | 23885 | - | - | 15060 | 16609 | 19785 | 22155 | 23472 | 23767 |
| ΔP | - | 18 | 28 | **40** | 48 | 60 | 67 | 69 | - | - | 27 | 33 | 47 | 59 | 66 | 68 |

### 0552 °/L

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 78,7 | 98,6 | 108,5 | 128,6 | 143,4 | 151,6 | 154,1 | 67,4 | 78,2 | 97,6 | 107,4 | 127,6 | 142,4 | 150,6 | 153,1 |
| Pe | - | 22,2 | 22,6 | 22,9 | 23,2 | 23,5 | 23,8 | 23,5 | 26,5 | 26,9 | 27,4 | 27,7 | 27,9 | 28,3 | 28,8 | 28,6 |
| COP | - | 3,55 | 4,36 | 4,75 | 5,54 | 6,10 | 6,37 | 6,56 | 2,55 | 2,91 | 3,56 | 3,88 | 4,57 | 5,02 | 5,23 | 5,36 |
| Qu | - | 13538 | 16938 | 18629 | 22054 | 24575 | 25983 | 22050 | 11638 | 13500 | 16829 | 18511 | 21972 | 24497 | 25904 | 21981 |
| ΔP | - | 22 | 35 | 42 | 58 | 73 | 81 | 58 | 16 | 22 | 34 | 41 | 58 | 72 | 81 | 58 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 77,4 | 96,3 | **105,8** | 126,0 | 140,7 | 148,9 | 150,7 | - | - | 95,5 | 105,2 | 124,8 | 139,6 | 147,7 | 149,6 |
| Pe | - | 32,8 | 33,4 | **33,8** | 34,1 | 34,7 | 35,3 | 35,7 | - | - | 36,9 | 37,2 | 37,8 | 38,5 | 39,1 | 39,5 |
| COP | - | 2,36 | 2,88 | **3,13** | 3,69 | 4,05 | 4,22 | 4,23 | - | - | 2,59 | 2,82 | 3,30 | 3,63 | 3,78 | 3,78 |
| Qu | - | 13407 | 16666 | **18334** | 21765 | 24293 | 25699 | 26017 | - | - | 16564 | 18229 | 21613 | 24143 | 25549 | 25865 |
| ΔP | - | 22 | 33 | **47** | 57 | 71 | 79 | 81 | - | - | 33 | 40 | 56 | 70 | 79 | 80 |

### 0602 °/L

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 91,3 | 118,4 | 131,1 | 155,2 | 171,3 | 179,5 | 179,7 | 77,0 | 90,0 | 115,3 | 127,6 | 152,9 | 170,1 | 179,3 | 180,1 |
| Pe | - | 25,5 | 26,0 | 26,3 | 26,7 | 27,1 | 26,8 | 26,9 | 30,3 | 30,9 | 31,4 | 31,7 | 32,2 | 32,4 | 32,1 | 32,1 |
| COP | - | 3,59 | 4,56 | 4,99 | 5,80 | 6,32 | 6,69 | 6,67 | 2,54 | 2,92 | 3,67 | 4,02 | 4,76 | 5,24 | 5,59 | 5,61 |
| Qu | - | 15712 | 20344 | 22513 | 26639 | 29387 | 25700 | 25718 | 13297 | 15545 | 19885 | 22001 | 26335 | 29274 | 25758 | 25879 |
| ΔP | - | 20 | 33 | 41 | 57 | 69 | 53 | 53 | 14 | 19 | 32 | 39 | 56 | 69 | 53 | 54 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 88,5 | 112,0 | **123,7** | 149,4 | 167,7 | 177,3 | 179,5 | - | - | 110,2 | 122,0 | 147,3 | 166,1 | 176,2 | 178,8 |
| Pe | - | 37,7 | 38,3 | **38,7** | 39,0 | 39,2 | 39,3 | 38,7 | - | - | 42,3 | 42,7 | 43,0 | 43,2 | 43,3 | 42,6 |
| COP | - | 2,35 | 2,92 | **3,20** | 3,83 | 4,27 | 4,51 | 4,64 | - | - | 2,60 | 2,86 | 3,42 | 3,85 | 4,07 | 4,20 |
| Qu | - | 15339 | 19385 | **21442** | 25838 | 28971 | 30613 | 25883 | - | - | 19119 | 21153 | 25518 | 28748 | 30482 | 25826 |
| ΔP | - | 19 | 30 | **43** | 54 | 68 | 75 | 54 | - | - | 29 | 36 | 52 | 66 | 75 | 54 |

### 0652 °/L

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 101,2 | 129,8 | 143,5 | 169,3 | 186,6 | 194,7 | 194,9 | 86,5 | 100,0 | 126,7 | 140,0 | 167,0 | 185,4 | 194,6 | 195,6 |
| Pe | - | 28,4 | 29,0 | 29,3 | 29,8 | 30,2 | 30,4 | 30,5 | 33,9 | 34,5 | 35,1 | 35,4 | 35,9 | 36,2 | 36,3 | 36,4 |
| COP | - | 3,56 | 4,48 | 4,89 | 5,68 | 6,19 | 6,41 | 6,40 | 2,55 | 2,90 | 3,61 | 3,95 | 4,66 | 5,13 | 5,36 | 5,38 |
| Qu | - | 17401 | 22297 | 24639 | 29039 | 31971 | 33343 | 33381 | 14938 | 17253 | 21836 | 24122 | 28759 | 31893 | 33457 | 33624 |
| ΔP | - | 24 | 40 | 49 | 68 | 82 | 89 | 90 | 18 | 24 | 38 | 47 | 67 | 82 | 90 | 91 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 98,7 | 123,5 | **136,1** | 163,7 | 183,2 | 193,5 | 195,2 | - | - | 121,9 | 134,6 | 161,6 | 181,7 | 192,5 | 194,7 |
| Pe | - | 42,3 | 42,8 | **43,3** | 43,6 | 43,8 | 43,9 | 43,9 | - | - | 47,4 | 47,7 | 48,1 | 48,2 | 48,3 | 48,3 |
| COP | - | 2,34 | 2,88 | **3,15** | 3,76 | 4,18 | 4,41 | 4,45 | - | - | 2,57 | 2,82 | 3,36 | 3,77 | 3,99 | 4,03 |
| Qu | - | 17101 | 21371 | **23594** | 28290 | 31629 | 33387 | 33683 | - | - | 21136 | 23334 | 27985 | 31426 | 33282 | 33643 |
| ΔP | - | 24 | 37 | **52** | 64 | 80 | 90 | 91 | - | - | 36 | 44 | 63 | 79 | 89 | 91 |

* Simulation made with ΔT>5 (source side) for respect of "maximum water flow rate" condition

**Data 14511:2018**

**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Ph** Heating capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C
***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN HEATING MODE - VERSIONS ° / L

**version °** = DCPX accessory
**version L** = DCPX accessory from 0282 to 0352 and DCPX standard from 0502 to 0754

***ATTENTION: DCPX, if provided, starts operating at 30 °C external air temperature.***

**0682 °/L**

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 117,9 | 152,2 | 168,3 | 198,4 | 219,4 | 230,9 | 232,5 | 100,1 | 116,3 | 148,2 | 164,0 | 195,3 | 217,2 | 228,7 | 231,4 |
| Pe | - | 33,7 | 34,4 | 34,8 | 35,8 | 36,6 | 36,5 | 36,9 | 40,6 | 40,9 | 41,5 | 41,9 | 42,6 | 43,3 | 43,9 | 43,2 |
| COP | - | 3,50 | 4,42 | 4,83 | 5,55 | 5,99 | 6,32 | 6,29 | 2,46 | 2,84 | 3,58 | 3,91 | 4,58 | 5,01 | 5,21 | 5,36 |
| Qu | - | 20272 | 26138 | 28899 | 34016 | 37573 | 33024 | 33256 | 17276 | 20064 | 25559 | 28252 | 33613 | 37334 | 39293 | 33226 |
| ΔP | - | 27 | 44 | 54 | 75 | 91 | 71 | 72 | 19 | 26 | 42 | 52 | 73 | 90 | 100 | 71 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 114,2 | 143,9 | **158,7** | 190,9 | 213,7 | 226,1 | 229,3 | - | - | 141,6 | 156,6 | 188,3 | 211,6 | 224,3 | 227,1 |
| Pe | - | 50,4 | 50,8 | **51,2** | 51,7 | 52,2 | 52,5 | 51,6 | - | - | 56,2 | 56,6 | 57,1 | 57,4 | 57,6 | 57,7 |
| COP | - | 2,27 | 2,84 | **3,10** | 3,69 | 4,10 | 4,31 | 4,44 | - | - | 2,52 | 2,77 | 3,30 | 3,68 | 3,89 | 3,94 |
| Qu | - | 19786 | 24908 | **27527** | 32988 | 36886 | 38989 | 33039 | - | - | 24555 | 27144 | 32591 | 36583 | 38761 | 39233 |
| ΔP | - | 25 | 40 | **56** | 70 | 88 | 98 | 71 | - | - | 39 | 48 | 69 | 87 | 97 | 100 |

**0702 °/L**

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 132,1 | 169,9 | 187,2 | 220,4 | 244,3 | 257,5 | 261,5 | 113,7 | 130,7 | 166,6 | 183,6 | 217,6 | 241,9 | 255,0 | 258,6 |
| Pe | - | 37,7 | 38,5 | 39,0 | 41,5 | 43,6 | 44,2 | 42,7 | 45,9 | 46,1 | 46,7 | 47,2 | 49,6 | 51,6 | 52,2 | 50,7 |
| COP | - | 3,51 | 4,42 | 4,80 | 5,31 | 5,61 | 5,82 | 6,13 | 2,48 | 2,84 | 3,57 | 3,89 | 4,39 | 4,69 | 4,88 | 5,10 |
| Qu | - | 22698 | 29165 | 32122 | 37760 | 41789 | 44023 | 37365 | 19618 | 22542 | 28711 | 31620 | 37416 | 41532 | 43761 | 37097 |
| ΔP | - | 33 | 55 | 66 | 91 | 112 | 124 | 89 | 25 | 33 | 53 | 64 | 90 | 111 | 123 | 88 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 129,0 | 162,5 | **178,4** | 213,5 | 238,4 | 251,8 | 254,6 | - | - | 160,2 | 176,4 | 210,9 | 236,3 | 249,9 | 252,7 |
| Pe | - | 57,3 | 57,6 | **58,2** | 60,5 | 62,5 | 63,2 | 62,8 | - | - | 64,2 | 64,6 | 67,0 | 69,0 | 69,7 | 69,3 |
| COP | - | 2,25 | 2,82 | **3,07** | 3,53 | 3,82 | 3,99 | 4,06 | - | - | 2,50 | 2,73 | 3,15 | 3,42 | 3,59 | 3,65 |
| Qu | - | 22327 | 28110 | **30948** | 36847 | 41099 | 43373 | 43847 | - | - | 27754 | 30558 | 36471 | 40811 | 43125 | 43601 |
| ΔP | - | 32 | 51 | **69** | 87 | 108 | 121 | 123 | - | - | 49 | 60 | 85 | 107 | 119 | 122 |

**0752 °/L**

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 147,7 | 186,3 | 204,5 | 241,0 | 269,3 | 285,9 | 291,0 | 129,0 | 146,8 | 184,4 | 202,6 | 239,1 | 267,1 | 283,3 | 288,2 |
| Pe | - | 42,0 | 42,9 | 43,6 | 45,5 | 47,3 | 48,8 | 47,9 | 51,6 | 51,7 | 52,4 | 53,1 | 54,9 | 56,4 | 57,4 | 56,2 |
| COP | - | 3,52 | 4,34 | 4,69 | 5,30 | 5,69 | 5,86 | 6,07 | 2,50 | 2,84 | 3,52 | 3,82 | 4,36 | 4,74 | 4,94 | 5,12 |
| Qu | - | 25371 | 31961 | 35058 | 41245 | 46014 | 48795 | 41538 | 22246 | 25310 | 31750 | 34856 | 41056 | 45794 | 48537 | 41296 |
| ΔP | - | 41 | 65 | 79 | 109 | 136 | 153 | 111 | 32 | 41 | 65 | 78 | 108 | 134 | 151 | 109 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 145,9 | 181,6 | **198,7** | 236,1 | 263,8 | 279,7 | 283,9 | - | - | 179,9 | 197,8 | 234,2 | 261,8 | 277,6 | 281,6 |
| Pe | - | 64,8 | 65,3 | **66,0** | 67,3 | 68,4 | 69,0 | 69,1 | - | - | 72,9 | 73,4 | 74,6 | 75,5 | 75,9 | 75,9 |
| COP | - | 2,25 | 2,78 | **3,01** | 3,51 | 3,86 | 4,05 | 4,11 | - | - | 2,47 | 2,69 | 3,14 | 3,47 | 3,66 | 3,71 |
| Qu | - | 25256 | 31383 | **34459** | 40694 | 45402 | 48106 | 48806 | - | - | 31161 | 34219 | 40448 | 45140 | 47825 | 48509 |
| ΔP | - | 41 | 63 | **84** | 106 | 132 | 148 | 153 | - | - | 62 | 75 | 105 | 131 | 147 | 151 |

**0604 °/L**

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 95,2 | 123,6 | 136,8 | 160,8 | 177,7 | 188,2 | ,191,2 | 79,3 | 93,6 | 120,3 | 133,2 | 158,2 | 176,2 | 187,7 | 191,4 |
| Pe | - | 27,5 | 27,6 | 27,8 | 28,2 | 28,9 | 28,9 | 29,6 | 33,7 | 33,8 | 34,0 | 34,2 | 34,3 | 34,6 | 34,3 | 34,6 |
| COP | - | 3,47 | 4,48 | 4,92 | 5,69 | 6,15 | 6,50 | 6,47 | 2,35 | 2,77 | 3,54 | 3,89 | 4,61 | 5,09 | 5,48 | 5,53 |
| Qu | - | 16368 | 21217 | 23473 | 27558 | 30423 | 26918 | 27331 | 13682 | 16154 | 20732 | 22938 | 27222 | 30274 | 26944 | 27459 |
| ΔP | - | 27 | 46 | 57 | 78 | 95 | 74 | 77 | 19 | 27 | 44 | 54 | 76 | 94 | 74 | 77 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 91,9 | 116,9 | **129,0** | 154,8 | 173,8 | 186,4 | 190,7 | - | - | 115,1 | 127,5 | 152,8 | 172,3 | 184,9 | 190,1 |
| Pe | - | 42,2 | 42,3 | **42,6** | 42,5 | 42,4 | 41,6 | 41,7 | - | - | 47,2 | 47,5 | 47,3 | 47,0 | 46,9 | 46,1 |
| COP | - | 2,18 | 2,76 | **3,03** | 3,65 | 4,10 | 4,48 | 4,57 | - | - | 2,44 | 2,68 | 3,23 | 3,66 | 3,94 | 4,12 |
| Qu | - | 15913 | 20218 | **22371** | 26741 | 29980 | 26849 | 27467 | - | - | 19950 | 22082 | 26446 | 29779 | 31922 | 27425 |
| ΔP | - | 26 | 42 | **55** | 73 | 92 | 74 | 77 | - | - | 41 | 50 | 72 | 91 | 105 | 77 |

* Simulation made with ΔT>5 (source side) for respect of "maximum water flow rate" condition

**Data 14511:2018**
**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Ph** Heating capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C
***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN HEATING MODE - VERSIONS ° / L

**version °** = DCPX accessory
**version L** = DCPX accessory from 0282 to 0352 and DCPX standard from 0502 to 0754

***ATTENTION: DCPX, if provided, starts operating at 30 °C external air temperature.***

### 0654 °/L

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 105,6 | 135,8 | 150,1 | 177,9 | 197,5 | 208,3 | 209,8 | 88,5 | 104,3 | 133,2 | 147,2 | 175,2 | 195,3 | 205,9 | 208,4 |
| Pe | - | 31,0 | 30,9 | 31,2 | 31,6 | 32,4 | 32,4 | 32,9 | 37,7 | 37,9 | 38,1 | 38,4 | 38,3 | 38,5 | 38,8 | 38,3 |
| COP | - | 3,41 | 4,39 | 4,82 | 5,62 | 6,10 | 6,43 | 6,37 | 2,35 | 2,75 | 3,49 | 3,84 | 4,58 | 5,07 | 5,31 | 5,45 |
| Qu | - | 18148 | 23329 | 25766 | 30503 | 33824 | 29794 | 30013 | 15282 | 17997 | 22962 | 25361 | 30156 | 33577 | 35388 | 29926 |
| ΔP | - | 26 | 42 | 52 | 72 | 89 | 69 | 70 | 18 | 25 | 41 | 50 | 71 | 88 | 97 | 70 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 102,5 | 130,1 | **143,4** | 171,9 | 192,5 | 203,7 | 205,9 | - | - | 128,3 | 141,9 | 170,0 | 190,9 | 202,3 | 204,7 |
| Pe | - | 46,9 | 47,3 | **47,7** | 47,4 | 47,1 | 47,0 | 46,9 | - | - | 52,7 | 53,0 | 52,8 | 52,4 | 52,0 | 51,7 |
| COP | - | 2,19 | 2,75 | **3,01** | 3,63 | 4,09 | 4,34 | 4,39 | - | - | 2,43 | 2,68 | 3,22 | 3,65 | 3,89 | 3,96 |
| Qu | - | 17758 | 22506 | **24862** | 29702 | 33227 | 35127 | 35499 | - | - | 22245 | 24586 | 29435 | 33012 | 34959 | 35360 |
| ΔP | - | 24 | 39 | **52** | 69 | 86 | 96 | 98 | - | - | 38 | 47 | 67 | 85 | 95 | 97 |

### 0704 °/L

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 128,6 | 164,8 | 181,9 | 214,3 | 236,1 | 247,7 | 251,2 | 106,7 | 126,1 | 160,8 | 177,5 | 211,3 | 234,0 | 245,7 | 248,3 |
| Pe | - | 37,7 | 37,9 | 38,3 | 38,7 | 38,9 | 38,9 | 37,7 | 46,4 | 46,0 | 46,0 | 46,4 | 46,9 | 46,9 | 46,9 | 46,8 |
| COP | - | 3,41 | 4,35 | 4,75 | 5,53 | 6,07 | 6,36 | 6,66 | 2,30 | 2,74 | 3,49 | 3,82 | 4,51 | 4,99 | 5,24 | 5,30 |
| Qu | - | 22087 | 28268 | 31176 | 36676 | 40343 | 42293 | 35878 | 18404 | 21746 | 27689 | 30555 | 36301 | 40147 | 42121 | 42557 |
| ΔP | - | 38 | 62 | 76 | 105 | 127 | 140 | 101 | 26 | 37 | 60 | 73 | 103 | 126 | 139 | 141 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 122,9 | 156,1 | **171,8** | 207,1 | 231,2 | 243,3 | 245,7 | - | - | 153,4 | 169,7 | 204,6 | 229,4 | 241,9 | 244,3 |
| Pe | - | 57,0 | 56,9 | **57,3** | 57,5 | 57,5 | 57,4 | 57,2 | - | - | 63,3 | 63,6 | 63,8 | 63,8 | 63,6 | 63,4 |
| COP | - | 2,16 | 2,75 | **3,00** | 3,60 | 4,02 | 4,24 | 4,29 | - | - | 2,43 | 2,67 | 3,20 | 3,60 | 3,80 | 3,85 |
| Qu | - | 21276 | 26978 | **29796** | 35717 | 39803 | 41861 | 42264 | - | - | 26572 | 29375 | 35341 | 39570 | 41694 | 42096 |
| ΔP | - | 35 | 57 | **75** | 100 | 124 | 137 | 140 | - | - | 55 | 67 | 98 | 122 | 136 | 138 |

### 0754 °/L

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 140,1 | 176,8 | 194,9 | 231,2 | 256,8 | 270,9 | 274,6 | 115,8 | 138,0 | 175,0 | 193,2 | 228,7 | 254,7 | 269,2 | 273,2 |
| Pe | - | 40,5 | 41,0 | 41,4 | 42,2 | 42,7 | 43,0 | 42,0 | 49,1 | 49,3 | 49,9 | 50,3 | 51,0 | 51,4 | 51,6 | 50,4 |
| COP | - | 3,46 | 4,32 | 4,71 | 5,48 | 6,02 | 6,29 | 6,54 | 2,36 | 2,80 | 3,51 | 3,84 | 4,49 | 4,96 | 5,21 | 5,42 |
| Qu | - | 24085 | 30360 | 33448 | 39600 | 43930 | 46308 | 39240 | 19985 | 23814 | 30160 | 33265 | 39325 | 43741 | 46194 | 39183 |
| ΔP | - | 34 | 54 | 65 | 91 | 112 | 125 | 90 | 23 | 33 | 53 | 64 | 90 | 111 | 124 | 89 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 50 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 135,8 | 171,4 | **188,6** | 224,8 | 251,2 | 266,1 | 269,6 | - | - | 168,9 | 186,5 | 222,3 | 249,0 | 264,0 | 267,7 |
| Pe | - | 60,8 | 61,3 | **61,8** | 62,3 | 62,6 | 62,8 | 62,7 | - | - | 68,0 | 68,5 | 69,0 | 69,2 | 69,3 | 69,2 |
| COP | - | 2,23 | 2,80 | **3,05** | 3,61 | 4,01 | 4,24 | 4,30 | - | - | 2,48 | 2,72 | 3,22 | 3,60 | 3,81 | 3,87 |
| Qu | - | 23505 | 29648 | **32710** | 38802 | 43305 | 45833 | 46432 | - | - | 29274 | 32302 | 38446 | 42993 | 45559 | 46181 |
| ΔP | - | 32 | 51 | **65** | 88 | 109 | 122 | 125 | - | - | 50 | 61 | 86 | 108 | 121 | 124 |

* Simulation made with ΔT>5 (source side) for respect of "maximum water flow rate" condition

**Data 14511:2018**
**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Ph** Heating capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C
***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## YIELDS AND ABSORPTION DIFFERENT THAN NOMINAL

### OPERATION IN HEATING MODE - VERSIONS A / E

**version °** = DCPX accessory
**version L** = DCPX accessory from 0282 to 0352 and DCPX standard from 0502 to 0754

***ATTENTION: DCPX, if provided, starts operating at 30 °C external air temperature.***

**0282 E**

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 43,9 | 56,1 | 61,7 | 72,3 | 80,0 | 83,9 | 84,5 | 36,3 | 42,9 | 55,0 | 60,6 | 71,6 | 79,5 | 83,8 | 84,5 |
| Pe | - | 10,9 | 11,0 | 11,1 | 11,3 | 11,5 | 11,7 | 11,8 | 13,7 | 13,7 | 13,8 | 13,9 | 14,0 | 14,1 | 14,2 | 14,3 |
| COP | - | 4,04 | 5,13 | 5,58 | 6,41 | 6,97 | 7,20 | 7,17 | 2,65 | 3,12 | 3,99 | 4,37 | 5,11 | 5,63 | 5,90 | 5,92 |
| Qu | - | 7553 | 9653 | 10602 | 12424 | 13733 | 14405 | 14496 | 6270 | 7406 | 9487 | 10457 | 12339 | 13703 | 14427 | 14554 |
| ΔP | - | 11 | 19 | 22 | 31 | 37 | 41 | 42 | 8 | 11 | 18 | 22 | 30 | 37 | 41 | 42 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 42,0 | 53,4 | **59,0** | 70,3 | 78,6 | 83,1 | 84,0 | - | - | 51,7 | 57,2 | 68,6 | 77,2 | 82,0 | 83,1 |
| Pe | - | 17,5 | 17,4 | **17,5** | 17,6 | 17,6 | 17,6 | 17,6 | - | - | 22,0 | 22,1 | 22,0 | 21,9 | 21,8 | 21,7 |
| COP | - | 2,41 | 3,06 | **3,37** | 4,00 | 4,46 | 4,72 | 4,78 | - | - | 2,35 | 2,59 | 3,12 | 3,52 | 3,76 | 3,82 |
| Qu | - | 7287 | 9256 | **10226** | 12171 | 13589 | 14367 | 14529 | - | - | 8986 | 9943 | 11918 | 13392 | 14223 | 14421 |
| ΔP | - | 11 | 17 | **26** | 29 | 37 | 41 | 42 | - | - | 16 | 20 | 28 | 36 | 40 | 41 |

**0302 E**

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 50,3 | 65,3 | 72,3 | 85,7 | 94,3 | 98,9 | 99,8 | 41,7 | 49,4 | 63,5 | 70,3 | 84,3 | 93,5 | 98,0 | 99,2 |
| Pe | - | 12,7 | 12,8 | 12,9 | 13,2 | 13,5 | 13,5 | 13,8 | 15,8 | 15,9 | 16,0 | 16,1 | 16,2 | 16,3 | 16,4 | 16,3 |
| COP | - | 3,95 | 5,10 | 5,60 | 6,50 | 6,99 | 7,31 | 7,25 | 2,64 | 3,10 | 3,97 | 4,36 | 5,21 | 5,73 | 5,96 | 6,10 |
| Qu | - | 8652 | 11222 | 12413 | 14701 | 16172 | 14156 | 14278 | 7200 | 8528 | 10961 | 12127 | 14525 | 16102 | 16864 | 14256 |
| ΔP | - | 15 | 25 | 31 | 43 | 52 | 40 | 41 | 10 | 14 | 24 | 29 | 42 | 52 | 57 | 40 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 48,4 | 61,7 | **68,2** | 82,6 | 92,4 | 97,1 | 98,4 | - | - | 59,7 | 66,1 | 80,5 | 91,0 | 96,0 | 96,9 |
| Pe | - | 20,1 | 20,2 | **20,3** | 20,3 | 20,2 | 20,2 | 19,8 | - | - | 25,3 | 25,4 | 25,4 | 25,2 | 24,9 | 24,8 |
| COP | - | 2,41 | 3,06 | **3,36** | 4,07 | 4,57 | 4,82 | 4,96 | - | - | 2,36 | 2,60 | 3,17 | 3,62 | 3,85 | 3,91 |
| Qu | - | 8384 | 10677 | **11816** | 14277 | 15965 | 16778 | 14184 | - | - | 10372 | 11487 | 13975 | 15779 | 16648 | 16796 |
| ΔP | - | 14 | 23 | **35** | 41 | 51 | 56 | 40 | - | - | 21 | 26 | 39 | 50 | 55 | 56 |

**0332 E**

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 56,6 | 73,4 | 81,2 | 96,3 | 106,0 | 111,2 | 112,2 | 46,9 | 55,5 | 71,4 | 79,1 | 94,8 | 105,1 | 110,2 | 111,6 |
| Pe | - | 14,4 | 14,4 | 14,6 | 14,9 | 15,2 | 15,3 | 15,5 | 17,9 | 18,0 | 18,1 | 18,2 | 18,3 | 18,4 | 18,5 | 18,4 |
| COP | - | 3,93 | 5,08 | 5,58 | 6,48 | 6,97 | 7,28 | 7,23 | 2,62 | 3,09 | 3,95 | 4,34 | 5,19 | 5,71 | 5,94 | 6,08 |
| Qu | - | 9730 | 12620 | 13960 | 16533 | 18188 | 15920 | 16058 | 8097 | 9591 | 12327 | 13638 | 16335 | 18109 | 18966 | 16032 |
| ΔP | - | 14 | 24 | 29 | 40 | 49 | 37 | 38 | 10 | 14 | 22 | 27 | 39 | 48 | 53 | 38 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 54,4 | 69,3 | **76,6** | 92,8 | 103,9 | 109,2 | 110,6 | - | - | 67,1 | 74,3 | 90,5 | 102,3 | 107,9 | 108,9 |
| Pe | - | 22,7 | 22,8 | **22,9** | 22,9 | 22,8 | 22,7 | 22,4 | - | - | 28,6 | 28,7 | 28,7 | 28,4 | 28,1 | 28,0 |
| COP | - | 2,40 | 3,04 | **3,35** | 4,06 | 4,55 | 4,80 | 4,94 | - | - | 2,35 | 2,59 | 3,16 | 3,60 | 3,84 | 3,90 |
| Qu | - | 9429 | 12008 | **13288** | 16057 | 17955 | 18869 | 15951 | - | - | 11665 | 12918 | 15717 | 17746 | 18723 | 18890 |
| ΔP | - | 13 | 21 | **31** | 38 | 48 | 53 | 38 | - | - | 20 | 25 | 36 | 47 | 52 | 53 |

**0352 E**

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 64,6 | 84,6 | 93,7 | 111,3 | 122,6 | 128,7 | 130,0 | 52,9 | 63,1 | 81,8 | 90,6 | 109,0 | 121,1 | 127,5 | 128,7 |
| Pe | - | 16,9 | 17,0 | 17,2 | 17,3 | 17,2 | 16,8 | 16,7 | 21,1 | 21,0 | 21,0 | 21,1 | 21,2 | 21,1 | 20,7 | 20,6 |
| COP | - | 3,82 | 4,98 | 5,46 | 6,44 | 7,12 | 7,67 | 7,76 | 2,50 | 3,01 | 3,90 | 4,29 | 5,13 | 5,73 | 6,17 | 6,25 |
| Qu | - | 11103 | 14525 | 16082 | 19081 | 21008 | 18410 | 18595 | 9141 | 10888 | 14100 | 15619 | 18763 | 20829 | 18303 | 18473 |
| ΔP | - | 19 | 33 | 41 | 57 | 69 | 53 | 54 | 13 | 19 | 31 | 38 | 55 | 68 | 52 | 53 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 61,3 | 78,7 | **87,1** | 106,1 | 119,1 | 125,8 | 126,9 | - | - | 75,4 | 83,7 | 102,7 | 116,6 | 123,3 | 124,5 |
| Pe | - | 26,3 | 26,3 | **26,4** | 26,5 | 26,3 | 25,8 | 25,6 | - | - | 32,9 | 33,0 | 32,9 | 32,7 | 32,5 | 32,4 |
| COP | - | 2,33 | 3,00 | **3,30** | 4,01 | 4,52 | 4,88 | 4,95 | - | - | 2,29 | 2,54 | 3,12 | 3,56 | 3,79 | 3,84 |
| Qu | - | 10621 | 13623 | **15099** | 18337 | 20559 | 18131 | 18295 | - | - | 13091 | 14531 | 17817 | 20212 | 21367 | 21567 |
| ΔP | - | 18 | 29 | **41** | 53 | 66 | 51 | 52 | - | - | 27 | 33 | 50 | 64 | 72 | 73 |

***Sizes 0282-0302-0332-0352 are only available in the silenced versions (E)***

* Simulation made with ΔT>5 (source side) for respect of "maximum water flow rate" condition

**Data 14511:2018**
**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Ph** Heating capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C
***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN HEATING MODE - VERSIONS A / E

**version °** = DCPX accessory
**version L** = DCPX accessory from 0282 to 0352 and DCPX standard from 0502 to 0754

***ATTENTION: DCPX, if provided, starts operating at 30 °C external air temperature.***

### 0502 A/E

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 73,8 | 97,2 | 107,8 | 128,1 | 141,7 | 148,8 | 149,0 | 60,8 | 72,3 | 94,1 | 104,3 | 125,5 | 140,1 | 148,1 | 149,0 |
| Pe | - | 20,4 | 20,7 | 20,9 | 21,2 | 21,4 | 21,1 | 21,1 | 24,6 | 24,7 | 25,0 | 25,2 | 25,4 | 25,5 | 25,2 | 25,2 |
| COP | - | 3,61 | 4,70 | 5,16 | 6,05 | 6,63 | 7,05 | 7,05 | 2,47 | 2,93 | 3,76 | 4,14 | 4,94 | 5,49 | 5,87 | 5,91 |
| Qu | - | 12706 | 16712 | 18530 | 22001 | 24329 | 21310 | 21343 | 10507 | 12495 | 16237 | 18006 | 21646 | 24145 | 21293 | 21418 |
| ΔP | - | 13 | 22 | 28 | 39 | 48 | 37 | 37 | 9 | 13 | 21 | 26 | 38 | 47 | 36 | 37 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 70,4 | 90,5 | **100,3** | 122,0 | 137,5 | 146,4 | 147,9 | - | - | 86,6 | 96,3 | 117,4 | 133,9 | 143,1 | 145,8 |
| Pe | - | 30,3 | 30,5 | **30,7** | 30,9 | 31,0 | 30,6 | 30,5 | - | - | 37,3 | 37,6 | 37,7 | 37,7 | 37,7 | 37,1 |
| COP | - | 2,33 | 2,96 | **3,27** | 3,94 | 4,44 | 4,79 | 4,85 | - | - | 2,32 | 2,56 | 3,11 | 3,55 | 3,80 | 3,93 |
| Qu | - | 12213 | 15689 | **17405** | 21110 | 23783 | 21127 | 21345 | - | - | 15067 | 16736 | 20393 | 23239 | 24829 | 21122 |
| ΔP | - | 12 | 20 | **28** | 36 | 46 | 36 | 37 | - | - | 18 | 23 | 33 | 43 | 50 | 36 |

### 0552 A/E

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 81,2 | 106,5 | 118,1 | 140,4 | 155,4 | 163,1 | 163,3 | 67,4 | 79,9 | 103,5 | 114,8 | 138,0 | 154,0 | 162,6 | 163,5 |
| Pe | - | 22,1 | 22,6 | 22,8 | 23,3 | 23,7 | 23,6 | 23,7 | 26,2 | 26,7 | 27,3 | 27,6 | 27,9 | 28,3 | 28,0 | 28,1 |
| COP | - | 3,68 | 4,72 | 5,17 | 6,02 | 6,55 | 6,92 | 6,89 | 2,57 | 2,99 | 3,80 | 4,17 | 4,94 | 5,45 | 5,80 | 5,82 |
| Qu | - | 13976 | 18304 | 20288 | 24106 | 26670 | 23360 | 23389 | 11645 | 13802 | 17863 | 19797 | 23780 | 26517 | 23370 | 23492 |
| ΔP | - | 16 | 27 | 33 | 47 | 57 | 44 | 44 | 11 | 15 | 26 | 32 | 46 | 57 | 44 | 44 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 78,2 | 100,2 | **110,9** | 134,5 | 151,5 | 161,0 | 162,5 | - | - | 96,4 | 107,0 | 130,0 | 147,9 | 157,8 | 160,6 |
| Pe | - | 32,5 | 33,2 | **33,5** | 33,9 | 34,1 | 33,8 | 33,8 | - | - | 40,3 | 40,7 | 41,1 | 41,3 | 41,4 | 40,8 |
| COP | - | 2,40 | 3,02 | **3,31** | 3,97 | 4,44 | 4,77 | 4,81 | - | - | 2,39 | 2,63 | 3,16 | 3,58 | 3,81 | 3,94 |
| Qu | - | 13558 | 17348 | **19229** | 23272 | 26184 | 23231 | 23446 | - | - | 16760 | 18594 | 22581 | 25668 | 27368 | 23249 |
| ΔP | - | 15 | 24 | **34** | 44 | 55 | 43 | 44 | - | - | 23 | 28 | 41 | 53 | 60 | 43 |

### 0602 A/E

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 91,4 | 119,0 | 131,8 | 156,0 | 172,5 | 181,2 | 181,8 | 76,5 | 90,1 | 115,8 | 128,3 | 153,6 | 171,0 | 180,7 | 181,8 |
| Pe | - | 24,8 | 25,3 | 25,6 | 26,0 | 26,3 | 26,1 | 26,2 | 29,6 | 30,1 | 30,6 | 30,9 | 31,2 | 31,4 | 31,1 | 31,1 |
| COP | - | 3,68 | 4,71 | 5,15 | 6,00 | 6,56 | 6,95 | 6,95 | 2,58 | 2,99 | 3,79 | 4,16 | 4,92 | 5,44 | 5,81 | 5,84 |
| Qu | - | 15737 | 20456 | 22646 | 26786 | 29605 | 25957 | 26038 | 13226 | 15558 | 19992 | 22131 | 26477 | 29464 | 25969 | 26135 |
| ΔP | - | 16 | 27 | 33 | 46 | 56 | 43 | 43 | 11 | 15 | 25 | 31 | 44 | 55 | 43 | 43 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 88,4 | 112,4 | **124,3** | 150,1 | 168,4 | 178,9 | 180,7 | - | - | 108,6 | 120,4 | 145,4 | 164,7 | 175,3 | 178,4 |
| Pe | - | 36,8 | 37,3 | **37,6** | 37,9 | 38,0 | 37,6 | 37,5 | - | - | 45,4 | 45,7 | 46,0 | 46,0 | 46,0 | 45,3 |
| COP | - | 2,41 | 3,02 | **3,31** | 3,96 | 4,43 | 4,76 | 4,81 | - | - | 2,39 | 2,64 | 3,16 | 3,58 | 3,81 | 3,94 |
| Qu | - | 15324 | 19471 | **21553** | 25968 | 29125 | 25817 | 26069 | - | - | 18891 | 20924 | 25255 | 28585 | 30422 | 25840 |
| ΔP | - | 15 | 24 | **33** | 43 | 54 | 42 | 43 | - | - | 23 | 28 | 40 | 52 | 59 | 42 |

### 0652 A/E

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 102,4 | 131,6 | 145,5 | 171,8 | 189,9 | 199,1 | 201,1 | 86,9 | 101,1 | 128,5 | 142,0 | 169,5 | 188,4 | 198,4 | 200,8 |
| Pe | - | 27,7 | 28,2 | 28,5 | 28,9 | 29,2 | 29,4 | 28,9 | 33,1 | 33,6 | 34,1 | 34,4 | 34,8 | 35,0 | 35,1 | 34,6 |
| COP | - | 3,70 | 4,68 | 5,11 | 5,94 | 6,50 | 6,77 | 6,95 | 2,63 | 3,01 | 3,77 | 4,13 | 4,87 | 5,38 | 5,64 | 5,81 |
| Qu | - | 17616 | 22626 | 25005 | 29486 | 32578 | 34144 | 28788 | 15018 | 17453 | 22170 | 24495 | 29206 | 32446 | 34141 | 28851 |
| ΔP | - | 19 | 32 | 39 | 55 | 67 | 73 | 52 | 14 | 19 | 31 | 38 | 54 | 66 | 73 | 52 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 99,6 | 125,2 | **138,2** | 166,1 | 185,8 | 196,5 | 199,4 | - | - | 121,8 | 134,6 | 161,4 | 182,0 | 193,4 | 196,1 |
| Pe | - | 41,1 | 41,6 | **42,0** | 42,2 | 42,4 | 42,4 | 41,7 | - | - | 50,7 | 51,1 | 51,3 | 51,3 | 51,3 | 51,2 |
| COP | - | 2,42 | 3,01 | **3,29** | 3,93 | 4,39 | 4,63 | 4,78 | - | - | 2,40 | 2,64 | 3,15 | 3,55 | 3,77 | 3,83 |
| Qu | - | 17265 | 21686 | **23952** | 28719 | 32111 | 33941 | 28753 | - | - | 21173 | 23390 | 28021 | 31572 | 33541 | 33992 |
| ΔP | - | 19 | 30 | **41** | 52 | 65 | 72 | 52 | - | - | 28 | 34 | 49 | 63 | 71 | 73 |

* Simulation made with ΔT>5 (source side) for respect of "maximum water flow rate" condition

**Data 14511:2018**
**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Ph** Heating capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C
***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN HEATING MODE - VERSIONS A / E

**version °** = DCPX accessory
**version L** = DCPX accessory from 0282 to 0352 and DCPX standard from 0502 to 0754

***ATTENTION: DCPX, if provided, starts operating at 30 °C external air temperature.***

### 0682 A/E

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 121,3 | 157,1 | 173,9 | 205,6 | 227,7 | 239,9 | 241,5 | 102,7 | 119,7 | 153,1 | 169,4 | 202,4 | 225,4 | 238,3 | 240,4 |
| Pe | - | 33,2 | 33,8 | 34,2 | 35,0 | 35,9 | 35,8 | 36,2 | 39,9 | 40,2 | 40,7 | 41,1 | 41,8 | 42,4 | 42,0 | 42,3 |
| COP | - | 3,65 | 4,65 | 5,08 | 5,87 | 6,35 | 6,70 | 6,67 | 2,57 | 2,97 | 3,76 | 4,12 | 4,85 | 5,32 | 5,67 | 5,69 |
| Qu | - | 20859 | 26997 | 29871 | 35291 | 39048 | 34340 | 34568 | 17749 | 20664 | 26409 | 29210 | 34866 | 38791 | 34243 | 34541 |
| ΔP | - | 22 | 36 | 44 | 62 | 76 | 59 | 59 | 16 | 21 | 35 | 42 | 60 | 75 | 58 | 59 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 117,7 | 148,7 | **164,1** | 197,8 | 221,7 | 234,6 | 238,1 | - | - | 143,9 | 159,2 | 191,8 | 216,7 | 230,5 | 233,6 |
| Pe | - | 49,5 | 49,8 | **50,2** | 50,6 | 51,0 | 51,2 | 50,4 | - | - | 61,1 | 61,4 | 61,6 | 61,7 | 61,7 | 61,7 |
| COP | - | 2,38 | 2,99 | **3,27** | 3,91 | 4,35 | 4,58 | 4,72 | - | - | 2,36 | 2,59 | 3,11 | 3,51 | 3,73 | 3,79 |
| Qu | - | 20397 | 25746 | **28469** | 34202 | 38303 | 40516 | 34332 | - | - | 25006 | 27660 | 33296 | 37581 | 39951 | 40491 |
| ΔP | - | 21 | 33 | **45** | 58 | 73 | 81 | 58 | - | - | 31 | 38 | 55 | 70 | 79 | 81 |

### 0702 A/E

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 133,0 | 170,4 | 188,3 | 223,0 | 248,0 | 262,2 | 264,5 | 113,9 | 131,9 | 167,1 | 184,5 | 220,0 | 245,5 | 260,1 | 262,8 |
| Pe | - | 36,6 | 37,3 | 37,8 | 39,0 | 40,4 | 40,8 | 41,7 | 44,6 | 44,8 | 45,3 | 45,7 | 46,8 | 47,9 | 48,0 | 48,7 |
| COP | - | 3,63 | 4,56 | 4,98 | 5,71 | 6,14 | 6,42 | 6,34 | 2,55 | 2,95 | 3,69 | 4,04 | 4,70 | 5,12 | 5,42 | 5,39 |
| Qu | - | 22877 | 29278 | 32331 | 38248 | 42488 | 37505 | 37840 | 19670 | 22759 | 28814 | 31806 | 37869 | 42208 | 37346 | 37731 |
| ΔP | - | 26 | 43 | 53 | 74 | 91 | 71 | 72 | 19 | 26 | 42 | 51 | 72 | 90 | 70 | 72 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 130,1 | 163,2 | **179,7** | 215,6 | 241,5 | 255,8 | 259,7 | - | - | 158,7 | 175,3 | 209,8 | 236,3 | 251,0 | 254,4 |
| Pe | - | 55,6 | 55,9 | **56,3** | 57,1 | 57,9 | 58,8 | 58,3 | - | - | 69,1 | 69,5 | 69,8 | 70,4 | 71,0 | 71,4 |
| COP | - | 2,34 | 2,92 | **3,19** | 3,78 | 4,17 | 4,35 | 4,46 | - | - | 2,30 | 2,52 | 3,01 | 3,36 | 3,54 | 3,57 |
| Qu | - | 22541 | 28248 | **31171** | 37253 | 41691 | 44131 | 37425 | - | - | 27580 | 30444 | 36397 | 40935 | 43467 | 44046 |
| ΔP | - | 26 | 40 | **54** | 70 | 88 | 98 | 71 | - | - | 38 | 47 | 67 | 84 | 95 | 98 |

### 0752 A/E

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 148,1 | 186,3 | 205,2 | 243,8 | 272,9 | 289,5 | 294,5 | 128,9 | 147,5 | 185,2 | 204,1 | 241,7 | 270,3 | 286,5 | 291,2 |
| Pe | - | 40,3 | 41,1 | 41,6 | 42,1 | 44,6 | 47,7 | 47,4 | 49,5 | 49,6 | 50,2 | 50,7 | 50,9 | 53,5 | 57,0 | 57,2 |
| COP | - | 3,68 | 4,53 | 4,93 | 5,79 | 6,11 | 6,07 | 6,21 | 2,60 | 2,97 | 3,69 | 4,03 | 4,75 | 5,05 | 5,03 | 5,10 |
| Qu | - | 25470 | 32004 | 35245 | 41812 | 46734 | 49540 | 42115 | 22259 | 25450 | 31924 | 35178 | 41601 | 46471 | 49217 | 41805 |
| ΔP | - | 29 | 45 | 55 | 78 | 97 | 109 | 79 | 22 | 29 | 45 | 55 | 77 | 96 | 107 | 77 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 146,9 | 182,6 | **200,6** | 238,5 | 266,7 | 282,5 | 286,0 | - | - | 178,5 | 196,5 | 234,2 | 262,0 | 277,3 | 280,6 |
| Pe | - | 62,1 | 62,4 | **62,9** | 62,6 | 65,3 | 69,1 | 70,9 | - | - | 77,7 | 78,1 | 77,8 | 80,4 | 84,4 | 86,6 |
| COP | - | 2,37 | 2,93 | **3,19** | 3,81 | 4,09 | 4,09 | 4,04 | - | - | 2,30 | 2,52 | 3,01 | 3,26 | 3,28 | 3,24 |
| Qu | - | 25449 | 31594 | **34799** | 41203 | 46019 | 48705 | 49317 | - | - | 31006 | 34122 | 40616 | 45379 | 48003 | 48567 |
| ΔP | - | 29 | 44 | **57** | 75 | 94 | 105 | 108 | - | - | 43 | 52 | 73 | 91 | 102 | 105 |

### 0604 A/E

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 95,4 | 124,2 | 137,5 | 162,8 | 180,3 | 189,8 | 190,8 | 78,8 | 93,7 | 120,9 | 133,9 | 160,1 | 178,4 | 188,7 | 190,2 |
| Pe | - | 26,2 | 26,2 | 26,5 | 27,0 | 27,6 | 27,7 | 28,2 | 32,1 | 32,2 | 32,3 | 32,6 | 32,7 | 32,9 | 32,6 | 32,8 |
| COP | - | 3,65 | 4,73 | 5,20 | 6,04 | 6,53 | 6,85 | 6,77 | 2,46 | 2,91 | 3,74 | 4,11 | 4,90 | 5,42 | 5,78 | 5,79 |
| Qu | - | 16408 | 21345 | 23620 | 27933 | 30910 | 27160 | 27304 | 13605 | 16176 | 20852 | 23080 | 27570 | 30699 | 27099 | 27318 |
| ΔP | - | 21 | 35 | 43 | 61 | 74 | 57 | 58 | 14 | 20 | 34 | 41 | 59 | 73 | 57 | 58 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 91,7 | 117,3 | **129,7** | 156,5 | 175,6 | 186,0 | 188,7 | - | - | 113,5 | 125,8 | 152,0 | 172,0 | 183,1 | 186,4 |
| Pe | - | 40,1 | 40,3 | **40,5** | 40,4 | 40,3 | 40,2 | 39,5 | - | - | 50,0 | 50,2 | 50,1 | 49,6 | 49,2 | 48,2 |
| COP | - | 2,29 | 2,91 | **3,20** | 3,87 | 4,36 | 4,62 | 4,77 | - | - | 2,27 | 2,50 | 3,03 | 3,46 | 3,72 | 3,86 |
| Qu | - | 15897 | 20312 | **22488** | 27051 | 30335 | 32109 | 27209 | - | - | 19723 | 21855 | 26375 | 29817 | 31736 | 26974 |
| ΔP | - | 20 | 32 | **42** | 57 | 71 | 80 | 58 | - | - | 30 | 37 | 54 | 69 | 78 | 57 |

* Simulation made with ΔT>5 (source side) for respect of "maximum water flow rate" condition

**Data 14511:2018**
**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Ph** Heating capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C
***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## OPERATION IN HEATING MODE - VERSIONS A / E

**version °** = DCPX accessory
**version L** = DCPX accessory from 0282 to 0352 and DCPX standard from 0502 to 0754

***ATTENTION: DCPX, if provided, starts operating at 30 °C external air temperature.***

### 0654 A/E

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 110,1 | 143,8 | 159,3 | 188,4 | 208,8 | 219,7 | 220,7 | 91,4 | 108,2 | 139,8 | 154,9 | 184,7 | 206,1 | 217,7 | 219,3 |
| Pe | - | 30,9 | 30,9 | 31,1 | 31,9 | 32,8 | 33,0 | 33,7 | 37,4 | 37,5 | 37,6 | 37,9 | 38,0 | 38,4 | 38,0 | 38,3 |
| COP | - | 3,57 | 4,66 | 5,12 | 5,91 | 6,36 | 6,66 | 6,56 | 2,45 | 2,89 | 3,71 | 4,08 | 4,87 | 5,37 | 5,73 | 5,73 |
| Qu | - | 18927 | 24698 | 27345 | 32281 | 35752 | 31408 | 31554 | 15786 | 18666 | 24094 | 26677 | 31773 | 35412 | 31251 | 31479 |
| ΔP | - | 28 | 47 | 58 | 81 | 99 | 77 | 77 | 19 | 27 | 45 | 55 | 78 | 97 | 76 | 77 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 105,8 | 135,2 | **149,4** | 180,3 | 202,6 | 214,5 | 217,3 | - | - | 130,2 | 144,4 | 175,1 | 198,3 | 211,1 | 213,8 |
| Pe | - | 46,1 | 46,4 | **46,7** | 46,5 | 46,4 | 46,3 | 45,3 | - | - | 57,2 | 57,5 | 57,4 | 56,8 | 56,2 | 55,8 |
| COP | - | 2,29 | 2,91 | **3,20** | 3,88 | 4,37 | 4,63 | 4,79 | - | - | 2,28 | 2,51 | 3,05 | 3,49 | 3,76 | 3,83 |
| Qu | - | 18316 | 23399 | **25913** | 31130 | 34939 | 36967 | 31296 | - | - | 22611 | 25067 | 30349 | 34332 | 36519 | 36993 |
| ΔP | - | 26 | 42 | **56** | 75 | 95 | 106 | 76 | - | - | 40 | 49 | 71 | 91 | 104 | 106 |

### 0704 A/E

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 128,2 | 165,0 | 182,2 | 215,2 | 237,3 | 249,1 | 253,0 | 106,0 | 125,8 | 161,0 | 177,9 | 212,2 | 235,2 | 247,1 | 250,4 |
| Pe | - | 35,8 | 36,0 | 36,3 | 36,6 | 36,7 | 36,7 | 35,7 | 44,1 | 43,7 | 43,7 | 44,0 | 44,3 | 44,3 | 44,2 | 43,1 |
| COP | - | 3,58 | 4,59 | 5,01 | 5,87 | 6,47 | 6,80 | 7,09 | 2,40 | 2,88 | 3,68 | 4,04 | 4,79 | 5,31 | 5,59 | 5,81 |
| Qu | - | 22044 | 28336 | 31275 | 36891 | 40650 | 42647 | 36180 | 18307 | 21715 | 27758 | 30653 | 36514 | 40442 | 42452 | 35946 |
| ΔP | - | 28 | 45 | 55 | 77 | 94 | 103 | 74 | 19 | 27 | 44 | 53 | 75 | 93 | 102 | 73 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 122,7 | 156,3 | **172,3** | 207,9 | 232,3 | 244,5 | 246,8 | - | - | 150,8 | 167,0 | 202,4 | 228,4 | 241,4 | 243,7 |
| Pe | - | 54,1 | 53,9 | **54,3** | 54,4 | 54,3 | 54,1 | 54,0 | - | - | 66,7 | 67,0 | 66,9 | 66,7 | 66,5 | 66,2 |
| COP | - | 2,27 | 2,90 | **3,17** | 3,82 | 4,28 | 4,52 | 4,57 | - | - | 2,26 | 2,49 | 3,03 | 3,42 | 3,63 | 3,68 |
| Qu | - | 21250 | 27043 | **29888** | 35922 | 40084 | 42169 | 42561 | - | - | 26189 | 28995 | 35096 | 39557 | 41781 | 42178 |
| ΔP | - | 26 | 41 | **54** | 73 | 91 | 101 | 103 | - | - | 39 | 48 | 70 | 89 | 99 | 101 |

### 0754 A/E

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 * | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 25 | | | | | | | | 35 | | | | |
| Glycol | - | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 141,0 | 178,6 | 197,1 | 234,6 | 260,9 | 276,1 | 278,9 | 118,0 | 139,4 | 176,0 | 194,2 | 231,9 | 258,7 | 273,4 | 277,3 |
| Pe | - | 39,1 | 39,5 | 40,0 | 40,6 | 41,1 | 40,4 | 40,5 | 47,4 | 47,6 | 48,1 | 48,5 | 49,1 | 49,5 | 49,7 | 48,6 |
| COP | - | 3,61 | 4,52 | 4,93 | 5,77 | 6,35 | 6,84 | 6,89 | 2,49 | 2,93 | 3,66 | 4,00 | 4,72 | 5,23 | 5,50 | 5,71 |
| Qu | - | 24242 | 30686 | 33839 | 40214 | 44684 | 39481 | 39884 | 20370 | 24052 | 30352 | 33474 | 39914 | 44471 | 46967 | 39808 |
| ΔP | - | 29 | 46 | 56 | 79 | 98 | 76 | 78 | 20 | 28 | 45 | 55 | 78 | 97 | 108 | 78 |

| TA b.s. | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 * | -15 | -5 | 5 | 7 | 15 | 25 | 35 | 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWu | | | | 45 | | | | | | | | 55 | | | | |
| Glycol | - | 0 | 0 | **0** | 0 | 0 | 0 | 0 | - | - | 0 | 0 | 0 | 0 | 0 | 0 |
| Ph | - | 136,9 | 172,6 | **190,0** | 227,8 | 255,0 | 270,1 | 274,3 | - | - | 168,4 | 186,1 | 222,2 | 249,8 | 265,3 | 268,9 |
| Pe | - | 58,6 | 59,1 | **59,5** | 60,0 | 60,3 | 60,4 | 59,1 | - | - | 72,6 | 73,0 | 73,4 | 73,6 | 73,5 | 73,4 |
| COP | - | 2,34 | 2,92 | **3,19** | 3,80 | 4,23 | 4,47 | 4,64 | - | - | 2,32 | 2,55 | 3,03 | 3,40 | 3,61 | 3,66 |
| Qu | - | 23717 | 29871 | **32956** | 39353 | 43998 | 46570 | 39514 | - | - | 29243 | 32302 | 38528 | 43262 | 45911 | 46531 |
| ΔP | - | 28 | 44 | **55** | 76 | 95 | 106 | 77 | - | - | 42 | 51 | 73 | 92 | 103 | 106 |

* Simulation made with ΔT>5 (source side) for respect of "maximum water flow rate" condition

**Data 14511:2018**
**TA b.s.** External air temperature with dry bulb (°C)
**TWu** Temperature of System side Water Produced (°C)
**Glycol** Suggested ethylene glycol percentage (%)
**Ph** Heating capacity [kW]
**Pe** Input power (kW)
**Qu** System side Water flow rate [l/h]
**ΔP** Pressure drop to the exchanger (kPa)
- Conditions outside the operating range

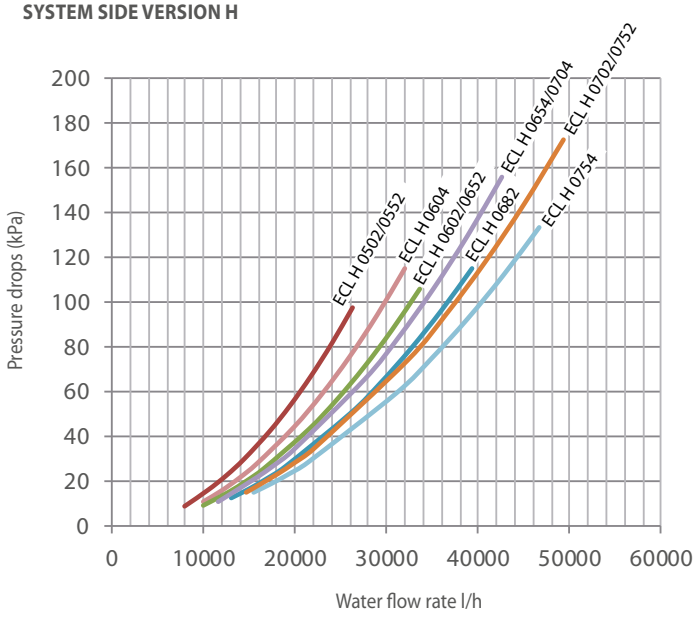
Capacities and pressure drops in the heat exchangers, calculated with ΔT 5 °C
***Note: For operating conditions different to those declared refer to the selection program Magellano, available on www.Airedale.com***

## PRESSURE DROPS - VERSIONS H - HL

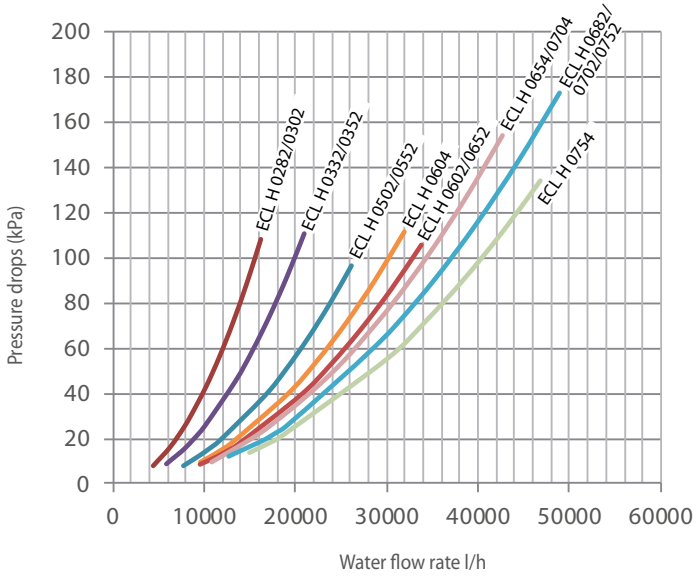
| | |
|---|---|
| Evaporator outlet water temperature | 7°C |
| Evaporator inlet water temperature | 12°C |
| External air temperature | 35 °C |
| Average water temperature | 10° C |

**For temperatures different than 10° C refer to the chapter "corrective factors"**

**SYSTEM SIDE VERSION H**




**SYSTEM SIDE VERSION HL**




**ECL H - HEAT EXCHANGER SYSTEM SIDE**

| Sizes | | Vers. | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q.min | [l/h] | ° | - | - | - | - | 7853 | 8588 | 9986 | 10742 | 12999 | 14623 | 16118 | 9938 | 11494 | 13767 | 15558 |
| Q.max | [l/h] | | - | - | - | - | 23962 | 26192 | 30633 | 33706 | 39324 | 44212 | 49228 | 31959 | 35518 | 42567 | 46729 |
| Q.min | [l/h] | L | 4487 | 5099 | 5792 | 6727 | 7617 | 8315 | 9600 | 10270 | 12656 | 14162 | 15534 | 9510 | 10888 | 13339 | 14979 |
| Q.max | [l/h] | | 14247 | 16252 | 18652 | 21015 | 23962 | 26192 | 30633 | 33706 | 39324 | 44212 | 49228 | 31959 | 35518 | 42567 | 46729 |

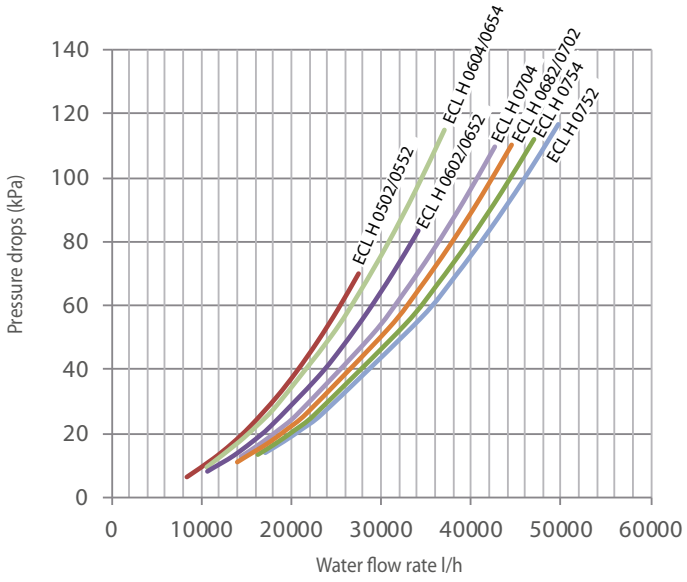
***Key:***
**Q.min** Minimum water flow to the heat exchanger
**Q.max** Maximum water flow to the heat exchanger

## PRESSURE DROPS - VERSIONS HA - HE

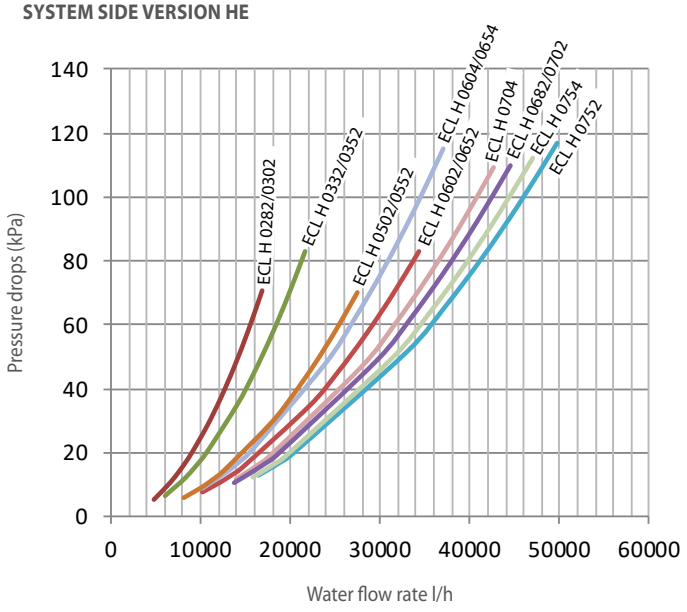
| | |
|---|---|
| Evaporator outlet water temperature | 7°C |
| Evaporator inlet water temperature | 12°C |
| External air temperature | 35 °C |
| Average water temperature | 10° C |

**For temperatures different than 10° C refer to the chapter "corrective factors"**

**SYSTEM SIDE VERSION HA**




**SYSTEM SIDE VERSION HE**




**ECL H - HEAT EXCHANGER SYSTEM SIDE**

| Sizes | | Vers. | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q.min | [l/h] | A | - | - | - | - | 8342 | 9165 | 10638 | 11503 | 14108 | 15363 | 17203 | 10603 | 12231 | 14462 | 16349 |
| Q.max | [l/h] | | - | - | - | - | 24865 | 27471 | 30790 | 34218 | 40670 | 44531 | 49714 | 32127 | 37020 | 42699 | 47081 |
| Q.min | [l/h] | E | 4765 | 5348 | 6026 | 6992 | 8090 | 8861 | 10249 | 11018 | 13715 | 14846 | 16500 | 10127 | 11909 | 13973 | 15712 |
| Q.max | [l/h] | | 14610 | 16881 | 18984 | 21571 | 24865 | 27471 | 30790 | 34218 | 40670 | 44531 | 49714 | 32127 | 37020 | 42699 | 47081 |

***Key:***
**Q.min** Minimum water flow to the heat exchanger
**Q.max** Maximum water flow to the heat exchanger

## PRESSURE DROPS DESUPERHEATER - VERSIONS H - HL

**DESUPERHEATER**

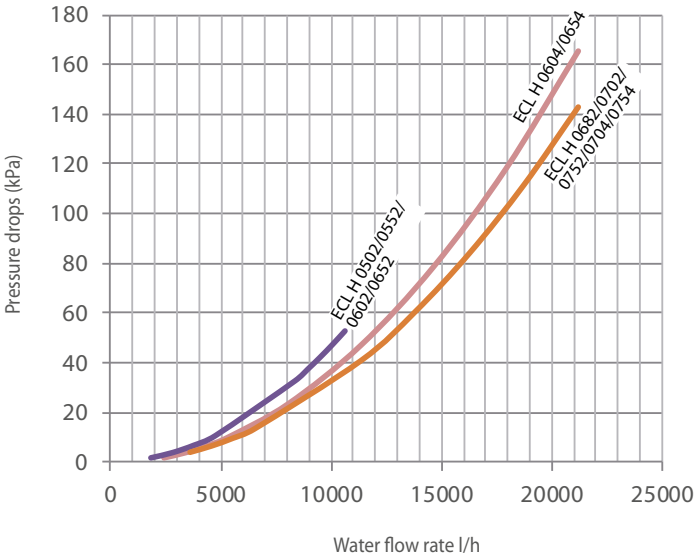
| | |
|---|---|
| Water temperature inlet | 40 °C |
| Water temperature outlet | 45 °C |
| Average water temperature | 43° C |

**SYSTEM SIDE**

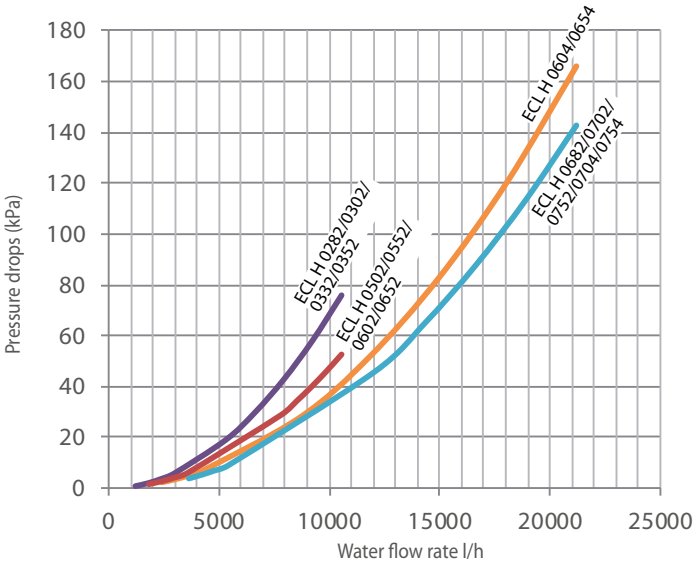
| | |
|---|---|
| Evaporator outlet water temperature | 7°C |
| Evaporator inlet water temperature | 12°C |
| External air temperature | 35 °C |

**For temperatures different than 43° C refer to the chapter "corrective factors"**

**DESUPERHEATER - VERSION H**




**DESUPERHEATER - VERSION HL**




**ECL H - DESUPERHEATER**

| Sizes | | Vers. | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q.min | [l/h] | ° | - | - | - | - | 1800 | 1800 | 1800 | 1800 | 5000 | 5000 | 5000 | 2400 | 2400 | 3600 | 3600 |
| Q.max | [l/h] | | - | - | - | - | 10600 | 10600 | 10600 | 10600 | 18000 | 18000 | 18000 | 21200 | 21200 | 21200 | 21200 |
| Q.min | [l/h] | L | 1200 | 1200 | 1200 | 1200 | 1800 | 1800 | 1800 | 1800 | 5000 | 5000 | 5000 | 2400 | 2400 | 3600 | 3600 |
| Q.max | [l/h] | | 10600 | 10600 | 10600 | 10600 | 10600 | 10600 | 10600 | 10600 | 18000 | 18000 | 18000 | 21200 | 21200 | 21200 | 21200 |

***Key:***

**Q.min** Minimum water flow to the heat exchanger

**Q.max** Maximum water flow to the heat exchanger

## PRESSURE DROPS DESUPERHEATER - VERSIONS HA - HE

**DESUPERHEATER**

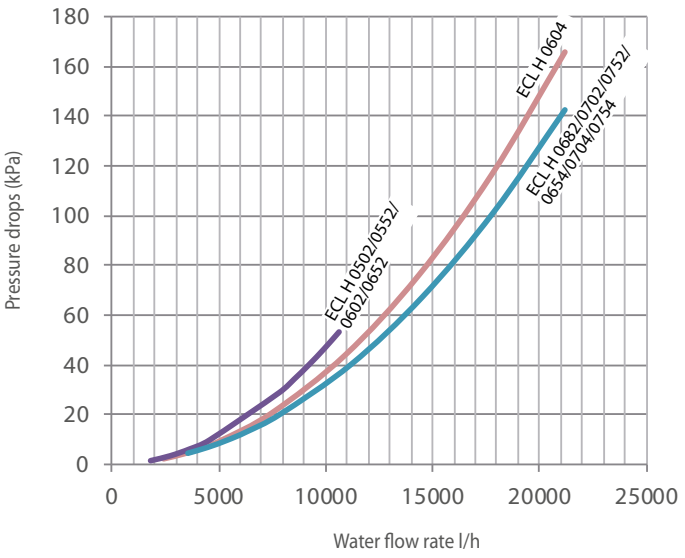
| | |
|---|---|
| Water temperature inlet | 40 °C |
| Water temperature outlet | 45 °C |
| Average water temperature | 43° C |

**SYSTEM SIDE**

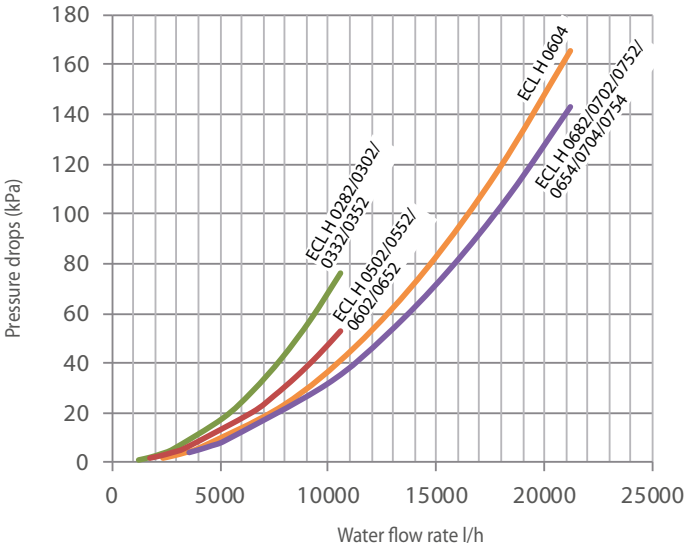
| | |
|---|---|
| Evaporator outlet water temperature | 7°C |
| Evaporator inlet water temperature | 12°C |
| External air temperature | 35 °C |

**For temperatures different than 43° C refer to the chapter "corrective factors"**

**DESUPERHEATER - VERSION HA**




**DESUPERHEATER - VERSION HE**




**ECL H - DESUPERHEATER**

| Sizes | | Vers. | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q.min | [l/h] | A | - | - | - | - | 1800 | 1800 | 1800 | 1800 | 5000 | 5000 | 5000 | 2400 | 3600 | 3600 | 3600 |
| Q.max | [l/h] | | - | - | - | - | 10600 | 10600 | 10600 | 10600 | 18000 | 18000 | 18000 | 21200 | 21200 | 21200 | 21200 |
| Q.min | [l/h] | E | 1200 | 1200 | 1200 | 1200 | 1800 | 1800 | 1800 | 1800 | 5000 | 5000 | 5000 | 2400 | 3600 | 3600 | 3600 |
| Q.max | [l/h] | | 10600 | 10600 | 10600 | 10600 | 10600 | 10600 | 10600 | 10600 | 18000 | 18000 | 18000 | 21200 | 21200 | 21200 | 21200 |

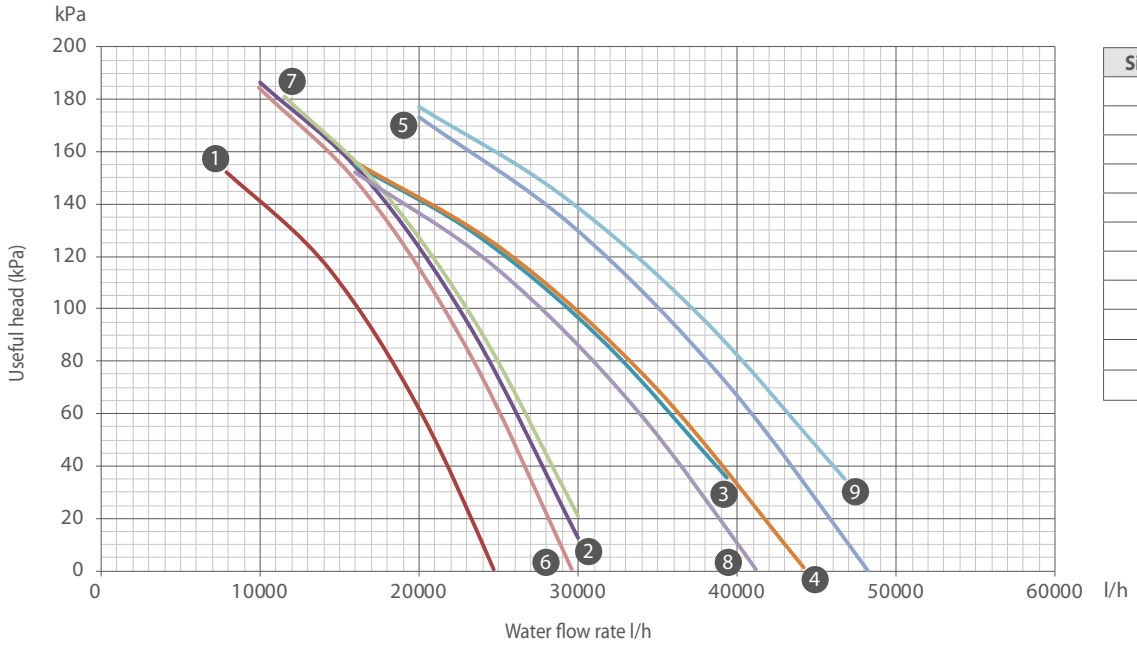
***Key:***

**Q.min** Minimum water flow to the heat exchanger

**Q.max** Maximum water flow to the heat exchanger

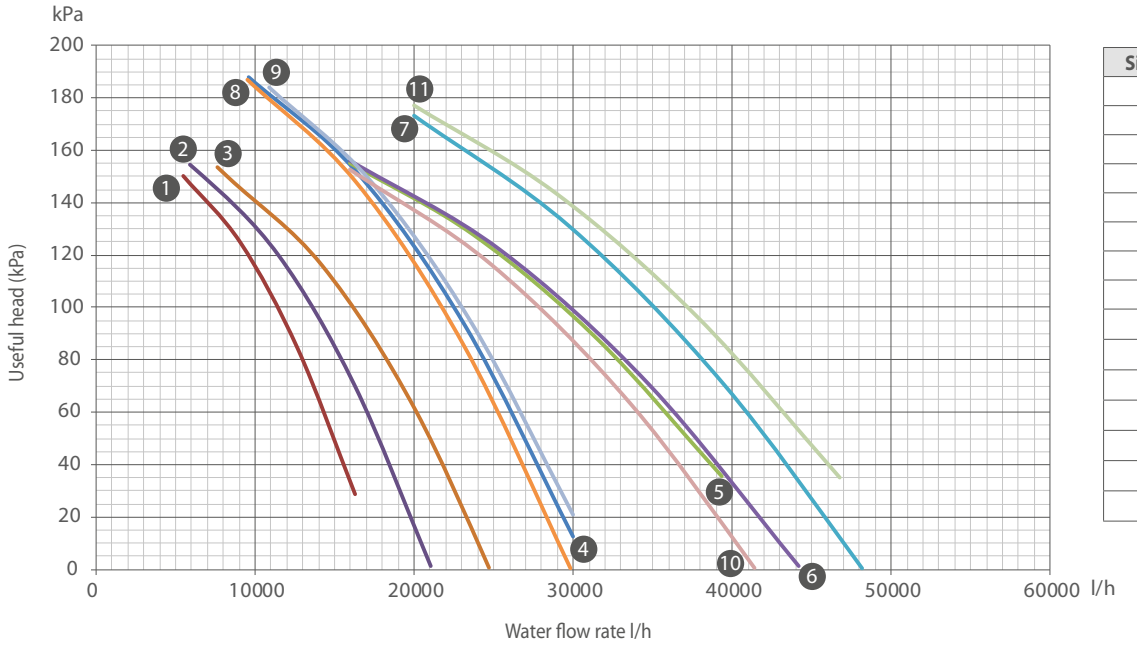
## USEFUL HEAD

### HYDRONIC KIT - LOW HEAD P1-P2-01-02-05-06-I1-I2-K1-K2-W1-W2 - VERSION °




| Size ECL | n. |
|---|---|
| 0502 | 1 |
| 0552 | |
| 0602 | 2 |
| 0652 | |
| 0682 | 3 |
| 0702 | 4 |
| 0752 | 5 |
| 0604 | 6 |
| 0654 | 7 |
| 0704 | 8 |
| 0754 | 9 |

### HYDRONIC KIT - LOW HEAD P1-P2-01-02-05-06-I1-I2-K1-K2-W1-W2 - VERSION L



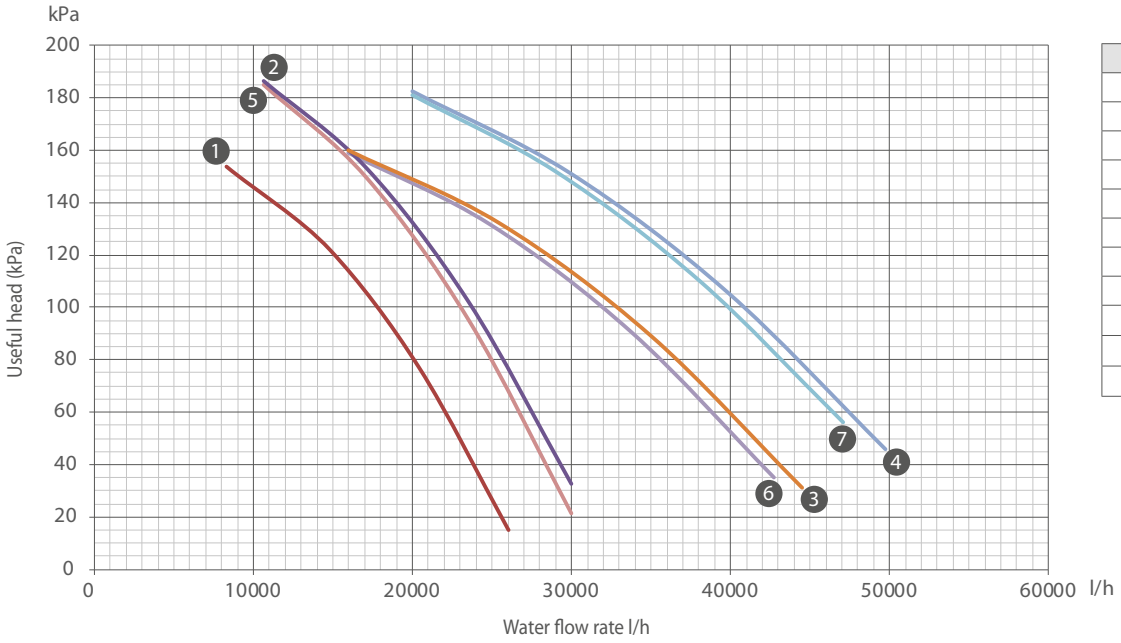

| Size ECL | n. |
|---|---|
| 0282 | 1 |
| 0302 | |
| 0332 | 2 |
| 0352 | |
| 0502 | 3 |
| 0552 | |
| 0602 | 4 |
| 0652 | |
| 0682 | 5 |
| 0702 | 6 |
| 0752 | 7 |
| 0604 | 8 |
| 0654 | 9 |
| 0704 | 10 |
| 0754 | 11 |

**ECL H - HEAT EXCHANGER SYSTEM SIDE**

| Sizes | | Vers. | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q.min | [l/h] | ° | - | - | - | - | 7853 | 8588 | 9986 | 10742 | 12999 | 14623 | 16118 | 9938 | 11494 | 13767 | 15558 |
| Q.max | [l/h] | | - | - | - | - | 23962 | 26192 | 30633 | 33706 | 39324 | 44212 | 49228 | 31959 | 35518 | 42567 | 46729 |
| Q.min | [l/h] | L | 4487 | 5099 | 5792 | 6727 | 7617 | 8315 | 9600 | 10270 | 12656 | 14162 | 15534 | 9510 | 10888 | 13339 | 14979 |
| Q.max | [l/h] | | 14247 | 16252 | 18652 | 21015 | 23962 | 26192 | 30633 | 33706 | 39324 | 44212 | 49228 | 31959 | 35518 | 42567 | 46729 |

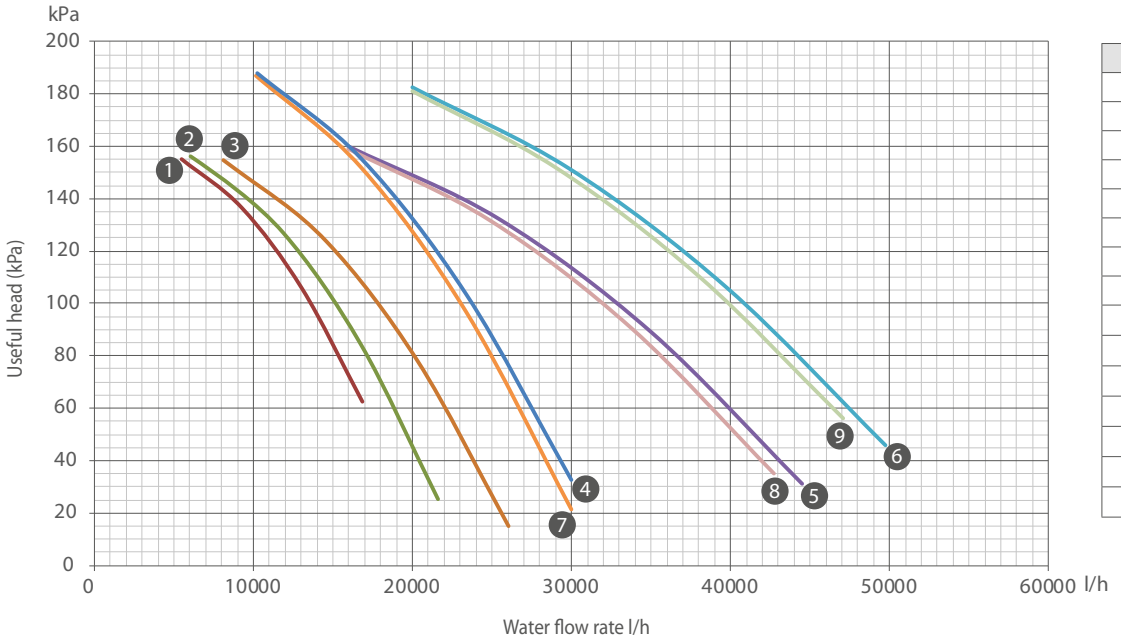
***Key:***
**Q.min** Minimum water flow to the heat exchanger
**Q.max** Maximum water flow to the heat exchanger

## HYDRONIC KIT - LOW HEAD P1-P2-01-02-05-06-I1-I2-K1-K2-W1-W2 - VERSION A




| Size ECL | n. |
|---|---|
| 0502 | 1 |
| 0552 | |
| 0602 | 2 |
| 0652 | |
| 0682 | 3 |
| 0702 | |
| 0752 | 4 |
| 0604 | 5 |
| 0654 | |
| 0704 | 6 |
| 0754 | 7 |

## HYDRONIC KIT - LOW HEAD P1-P2-01-02-05-06-I1-I2-K1-K2-W1-W2 - VERSION E



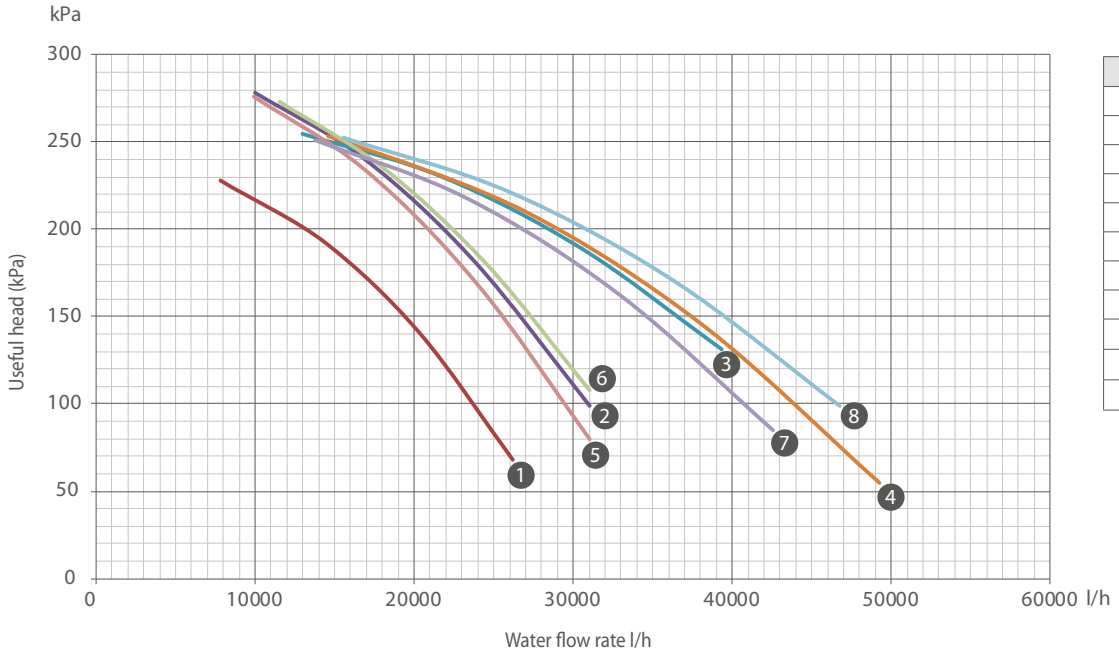

| Size ECL | n. |
|---|---|
| 0282 | 1 |
| 0302 | |
| 0332 | 2 |
| 0352 | |
| 0502 | 3 |
| 0552 | |
| 0602 | 4 |
| 0652 | |
| 0682 | 5 |
| 0702 | |
| 0752 | 6 |
| 0604 | 7 |
| 0654 | |
| 0704 | 8 |
| 0754 | 9 |

**ECL H - HEAT EXCHANGER SYSTEM SIDE**

| Sizes | | Vers. | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q.min | [l/h] | A | - | - | - | - | 8342 | 9165 | 10638 | 11503 | 14108 | 15363 | 17203 | 10603 | 12231 | 14462 | 16349 |
| Q.max | [l/h] | | - | - | - | - | 24865 | 27471 | 30790 | 34218 | 40670 | 44531 | 49714 | 32127 | 37020 | 42699 | 47081 |
| Q.min | [l/h] | E | 4765 | 5348 | 6026 | 6992 | 8090 | 8861 | 10249 | 11018 | 13715 | 14846 | 16500 | 10127 | 11909 | 13973 | 15712 |
| Q.max | [l/h] | | 14610 | 16881 | 18984 | 21571 | 24865 | 27471 | 30790 | 34218 | 40670 | 44531 | 49714 | 32127 | 37020 | 42699 | 47081 |

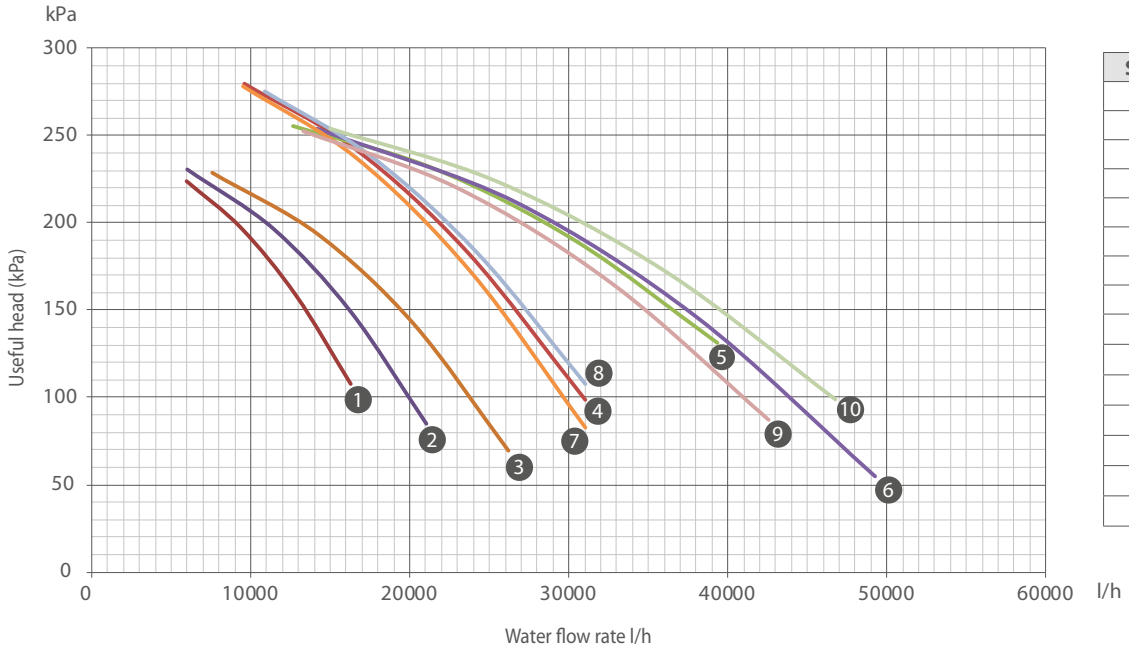
***Key:***
**Q.min** Minimum water flow to the heat exchanger
**Q.max** Maximum water flow to the heat exchanger

## HYDRONIC KIT- HIGH HEAD P3-P4-03-04-07-08-I3-I4-K3-K4-W3-W4 - VERSION °




| Size ECL | n. |
|---|---|
| 0502 | 1 |
| 0552 | |
| 0602 | 2 |
| 0652 | |
| 0682 | 3 |
| 0702 | 4 |
| 0752 | |
| 0604 | 5 |
| 0654 | 6 |
| 0704 | 7 |
| 0754 | 8 |

## HYDRONIC KIT- HIGH HEAD P3-P4-03-04-07-08-I3-I4-K3-K4-W3-W4 - VERSION L



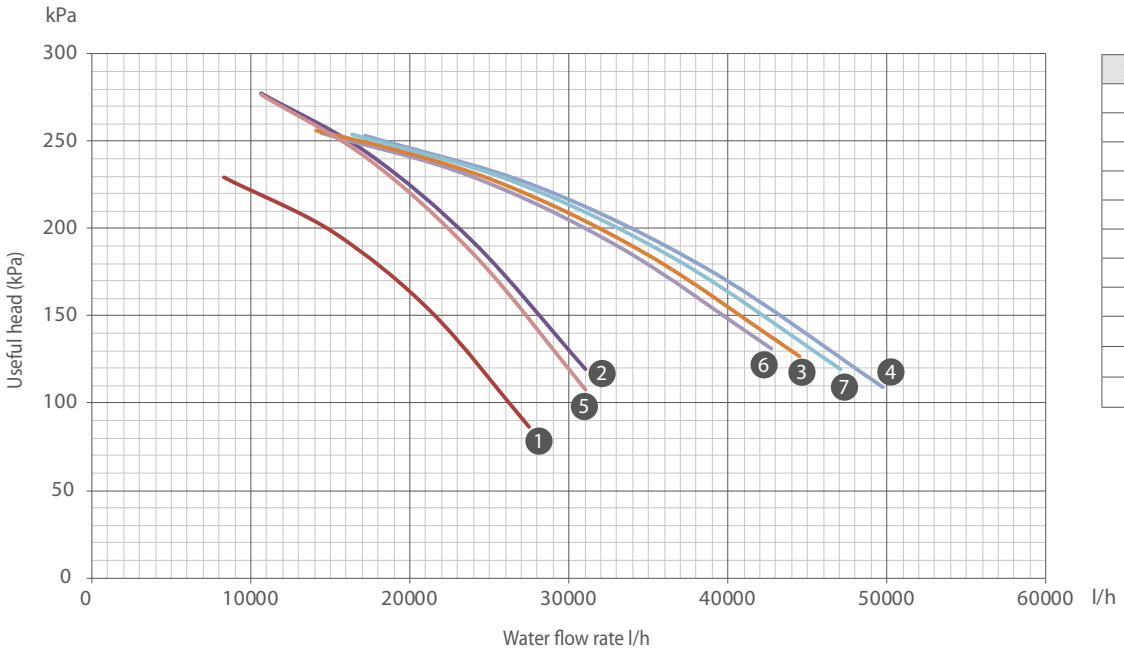

| Size ECL | n. |
|---|---|
| 0282 | 1 |
| 0302 | |
| 0332 | 2 |
| 0352 | |
| 0502 | 3 |
| 0552 | |
| 0602 | 4 |
| 0652 | |
| 0682 | 5 |
| 0702 | 6 |
| 0752 | |
| 0604 | 7 |
| 0654 | 8 |
| 0704 | 9 |
| 0754 | 10 |

**ECL H - HEAT EXCHANGER SYSTEM SIDE**

| Sizes | | Vers. | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q.min | [l/h] | ° | - | - | - | - | 7853 | 8588 | 9986 | 10742 | 12999 | 14623 | 16118 | 9938 | 11494 | 13767 | 15558 |
| Q.max | [l/h] | | - | - | - | - | 23962 | 26192 | 30633 | 33706 | 39324 | 44212 | 49228 | 31959 | 35518 | 42567 | 46729 |
| Q.min | [l/h] | L | 4487 | 5099 | 5792 | 6727 | 7617 | 8315 | 9600 | 10270 | 12656 | 14162 | 15534 | 9510 | 10888 | 13339 | 14979 |
| Q.max | [l/h] | | 14247 | 16252 | 18652 | 21015 | 23962 | 26192 | 30633 | 33706 | 39324 | 44212 | 49228 | 31959 | 35518 | 42567 | 46729 |

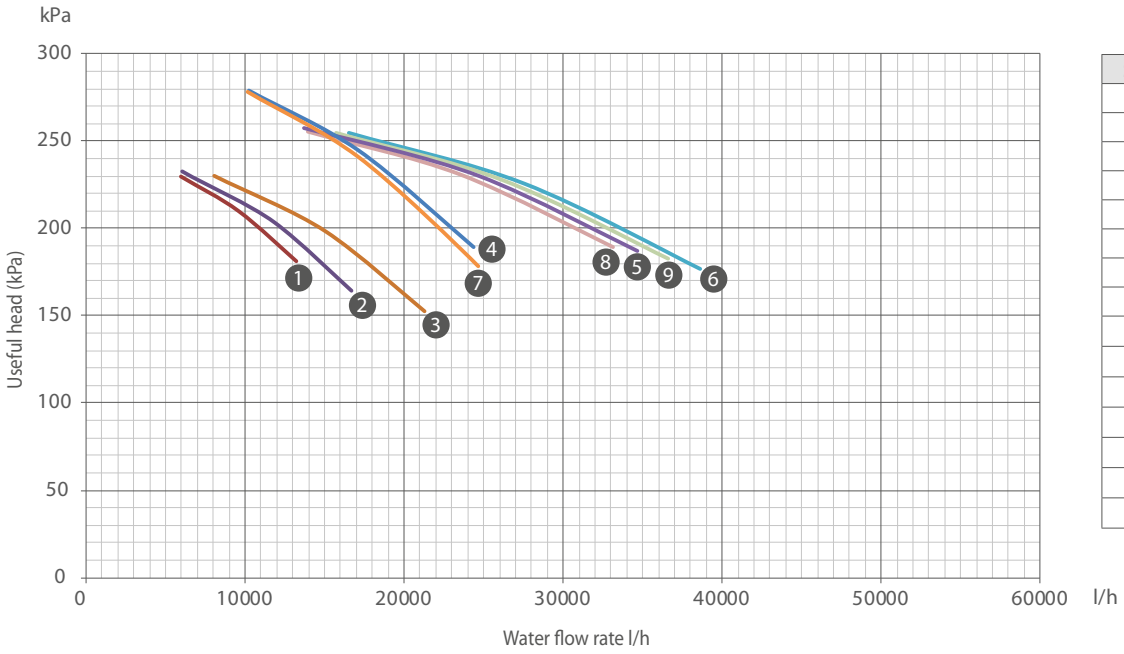
***Key:***
**Q.min** Minimum water flow to the heat exchanger
**Q.max** Maximum water flow to the heat exchanger

## HYDRONIC KIT- HIGH HEAD P3-P4-03-04-07-08-I3-I4-K3-K4-W3-W4 - VERSION A




| Size ECL | n. |
|---|---|
| 0502 | 1 |
| 0552 | |
| 0602 | 2 |
| 0652 | |
| 0682 | 3 |
| 0702 | |
| 0752 | 4 |
| 0604 | 5 |
| 0654 | |
| 0704 | 6 |
| 0754 | 7 |

## HYDRONIC KIT- HIGH HEAD P3-P4-03-04-07-08-I3-I4-K3-K4-W3-W4 - VERSION E




| Size ECL | n. |
|---|---|
| 0282 | 1 |
| 0302 | |
| 0332 | 2 |
| 0352 | |
| 0502 | 3 |
| 0552 | |
| 0602 | 4 |
| 0652 | |
| 0682 | 5 |
| 0702 | |
| 0752 | 6 |
| 0604 | 7 |
| 0654 | |
| 0704 | 8 |
| 0754 | 9 |

**ECL H - HEAT EXCHANGER SYSTEM SIDE**

| Sizes | | Vers. | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q.min | [l/h] | A | - | - | - | - | 8342 | 9165 | 10638 | 11503 | 14108 | 15363 | 17203 | 10603 | 12231 | 14462 | 16349 |
| Q.max | [l/h] | | - | - | - | - | 24865 | 27471 | 30790 | 34218 | 40670 | 44531 | 49714 | 32127 | 37020 | 42699 | 47081 |
| Q.min | [l/h] | E | 4765 | 5348 | 6026 | 6992 | 8090 | 8861 | 10249 | 11018 | 13715 | 14846 | 16500 | 10127 | 11909 | 13973 | 15712 |
| Q.max | [l/h] | | 14610 | 16881 | 18984 | 21571 | 24865 | 27471 | 30790 | 34218 | 40670 | 44531 | 49714 | 32127 | 37020 | 42699 | 47081 |

***Key:***
**Q.min** Minimum water flow to the heat exchanger
**Q.max** Maximum water flow to the heat exchanger

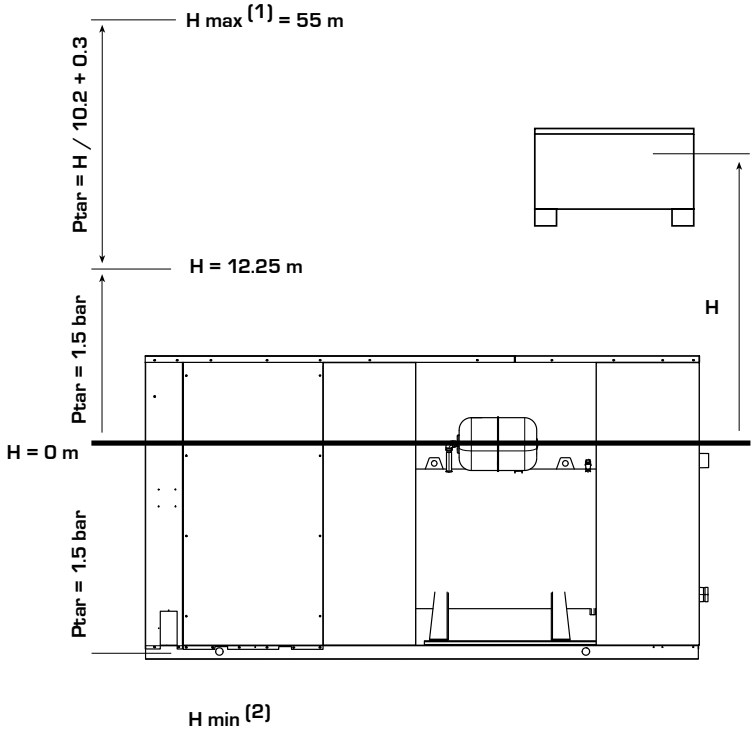
## WATER SYSTEM CONTENT

The minimum water content of the system allows you to limit the switch-ons and offs of the compressor.
To calculate it use the formula Pc (kW) X l.

| Minimum system water content | ver | u.m. | 0282 | 0302 | 0332 | 0352 | 0502 | 0552 | 0602 | 0652 | 0682 | 0702 | 0752 | 0604 | 0654 | 0704 | 0754 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| For air conditioning systems | | l/kW | | | | | | | | 4 | | | | | | | |
| For systems with process water | | l/kW | | | | | | | | 8 | | | | | | | |
| Minimum water content on the total recovery circuit (option T) | | l/kW | | | | | | | | 10 | | | | | | | |

## EXPANSION VESSEL CALIBRATION

Standard pre-load pressure value of the expansion vessel is 1.5 bar, whereas volume is 24 litres. Maximum pressure 6 bar.
Calibration of the vessel must be regulated using the maximum level difference (H) of the user (see diagram) by using the following formula:
p (calibration) [bar] = H [m] / 10.2 + 0.3.
For example: if the level difference H is equal to 20 m, the calibration value of the vessel will be 2.3 bar.
If the calibration value obtained from the formula is less than 1.5 bar (i.e. for H < 12.25), use the standard calibration.




KEY
(1) Check that highest installation is not higher than 55 metres.

(2) Ensure that lowest user can withstand global pressure in that position.

| System water temperature max/min | °C | | | 40/4 | | |
|---|---|---|---|---|---|---|
| **Hydraulic height** | **m** | **30** | **25** | **20** | **15** | **>12.25** |
| Expansion vessel pre-load | bar | 3.2 | 2.8 | 2.3 | 1.8 | 1.5 |
| Maximum water content | l | 2174 | 2646 | 3118 | 3590 | 3852 |
| **System water temperature max/min** | **°C** | | | **60/4** | | |
| Expansion vessel pre-load | bar | 3.2 | 2.8 | 2.3 | 1.8 | 1.5 |
| Maximum water content | l | 978 | 1190 | 1404 | 1616 | 1732 |
| **System water temperature max/min** | **°C** | | | **85/4** | | |
| Expansion vessel pre-load | bar | 3.2 | 2.8 | 2.3 | 1.8 | 1.5 |
| Maximum water content | l | 510 | 622 | 732 | 844 | 904 |

The data in the table refer to units with a 24l expansion vessel and a water temperature (in/out) of 12°C/7°C.

## CORRECTIVE FACTORS

| Corrective factors for Average water temperatures different from the nominal | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **System side heat exchanger** | | **Operation in cooling mode** | | | | | | | **Heating or recovery mode** | | | | | | | | |
| **Average water temperatures** | **(°C)** | **5** | **10** | **15** | **20** | **30** | **40** | **50** | **23** | **28** | **33** | **38** | **43** | **48** | **53** | **58** |
| **Corrective factor** | | 1.02 | **1** | 0.98 | 0.97 | 0.95 | 0.93 | 0.91 | 1.04 | 1.03 | 1.02 | 1.01 | **1** | 0.99 | 0.98 | 0.97 |

## DIRT

| | Deposit corrective factors [K*m²]/[kW] | | | |
|---|---|---|---|---|
| | **0,0** | **0,00005** | **0,0001** | **0,0002** |
| **Cooling capacity correction factors** | **1,0** | **1,00** | 0,98 | 0,94 |
| **Input power correction factors** | **1,0** | **1,00** | 0,98 | 0,95 |

## GLYCOL

### ETHYLENE GLYCOL

**COOLING MODE**

| CORRECTION FACTOR WITH ETHYLENE GLYCOL - COOLING MODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Freezing Point | °C | 0 | -3.63 | -6.10 | -8.93 | -12.11 | -15.74 | -19.94 | -24.79 | -30.44 | -37.10 |
| Percent ethylene glycol | % | 0 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| Qwc | - | 1.000 | 1.033 | 1.040 | 1.049 | 1.060 | 1.072 | 1.086 | 1.102 | 1.120 | 1.141 |
| Pc | - | 1.000 | 0.990 | 0.985 | 0.980 | 0.975 | 0.970 | 0.965 | 0.960 | 0.955 | 0.950 |
| Pa | - | 1.000 | 0.996 | 0.994 | 0.992 | 0.990 | 0.988 | 0.986 | 0.984 | 0.982 | 0.980 |
| Dp | - | 1.000 | 1.109 | 1.157 | 1.209 | 1.268 | 1.336 | 1.414 | 1.505 | 1.609 | 1.728 |

Average water temperature = 9.5 °C

**HEATING MODE**

| CORRECTION FACTOR WITH ETHYLENE GLYCOL - HEATING MODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Freezing Point | °C | 0 | -3.63 | -6.10 | -8.93 | -12.11 | -15.74 | -19.94 | -24.79 | -30.44 | -37.10 |
| Percent ethylene glycol | % | 0 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| Qwh | - | 1.000 | 1.027 | 1.038 | 1.050 | 1.063 | 1.078 | 1.095 | 1.114 | 1.135 | 1.158 |
| Ph | - | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Pa | - | 1.000 | 1.002 | 1.003 | 1.004 | 1.005 | 1.007 | 1.008 | 1.010 | 1.012 | 1.015 |
| Dp | - | 1.000 | 1.087 | 1.128 | 1.175 | 1.227 | 1.286 | 1.353 | 1.428 | 1.514 | 1.610 |

Average water temperature = 42.5 °C

**Qwc**: Corrective factor of flow rates (middle water temperatur 9.5°C)
**Qwh:** Corrective factor of flow rates (middle water temperatur 42.5°C)
**Pc**: Corrective factor of cooling capacity
**Ph**: Corrective factor of heating capacity
**Pa**: Corrective factor of imput power
**Dp**: Corrective factor of pressure drop

### PROPYLENE GLYCOL

**COOLING MODE**

| CORRECTION FACTOR WITH PROPILENE GLYCOL - COOLING MODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Freezing Point | °C | 0 | -3.43 | -5.30 | -7.44 | -9.98 | -13.08 | -16.86 | -21.47 | -27.04 | -33.72 |
| Percent PROPILENE glycol | % | 0 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| Qwc | - | 1.000 | 1.007 | 1.006 | 1.007 | 1.010 | 1.015 | 1.022 | 1.032 | 1.044 | 1.058 |
| Pc | - | 1.000 | 0.985 | 0.978 | 0.970 | 0.963 | 0.955 | 0.947 | 0.939 | 0.932 | 0.924 |
| Pa | - | 1.000 | 0.996 | 0.994 | 0.992 | 0.990 | 0.988 | 0.986 | 0.984 | 0.982 | 0.980 |
| Dp | - | 1.000 | 1.082 | 1.102 | 1.143 | 1.201 | 1.271 | 1.351 | 1.435 | 1.520 | 1.602 |

Average water temperature = 9.5 °C

**HEATING MODE**

| CORRECTION FACTOR WITH PROPILENE GLYCOL - HEATING MODE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Freezing Point | °C | 0 | -3.43 | -5.30 | -7.44 | -9.98 | -13.08 | -16.86 | -21.47 | -27.04 | -33.72 |
| Percent PROPILENE glycol | % | 0 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| Qwh | - | 1.000 | 1.008 | 1.014 | 1.021 | 1.030 | 1.042 | 1.055 | 1.071 | 1.090 | 1.112 |
| Ph | - | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Pa | - | 1.000 | 1.003 | 1.004 | 1.005 | 1.007 | 1.009 | 1.011 | 1.014 | 1.018 | 1.023 |
| Dp | - | 1.000 | 1.050 | 1.077 | 1.111 | 1.153 | 1.202 | 1.258 | 1.321 | 1.390 | 1.467 |

Average water temperature =42.5 °C

**Qwc**: Corrective factor of flow rates (middle water temperatur 9.5°C)
**Qwh:** Corrective factor of flow rates (middle water temperatur 42.5°C)
**Pc**: Corrective factor of cooling capacity
**Ph**: Corrective factor of heating capacity
**Pa**: Corrective factor of imput power
**Dp**: Corrective factor of pressure drop

***Do not fill up the hydraulic system by glycol near the suction of the pump. High concentration of glycol could stuck the pump. Do not use the pump to mix water and glycol***

## SOUND DATA

Sound power levels on the basis of measurements taken in accordance with ISO 9614 in compliance with EUROVENT certification (Eurovent 8/1 sound tests). This certification refers to the Sound Power in dB(A) which is therefore the only acoustic data to be considered binding.

| Unit ECL H | Vers. | Notes | Total sound levels | | | Octave band (Hz) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pow. dB(A) | Pres. 10m dB(A) | Pres. 1m dB(A) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| | | | | | | Sound power for central band [dB] (A) frequency | | | | | | |
| *Sound data - COOLING MODE* | | | | | | | | | | | | |
| 0282 | ° | | - | - | - | - | - | - | - | - | - | - |
| 0302 | ° | | - | - | - | - | - | - | - | - | - | - |
| 0332 | ° | | - | - | - | - | - | - | - | - | - | - |
| 0352 | ° | | - | - | - | - | - | - | - | - | - | - |
| 0502 | ° | | 86,6 | 54,8 | 68,6 | 76,4 | 77,7 | 80,3 | 82,6 | 77,7 | 70,4 | 59,8 |
| 0552 | ° | | 86,9 | 55,0 | 68,8 | 76,9 | 78,4 | 80,5 | 82,8 | 77,8 | 70,4 | 59,8 |
| 0602 | ° | | 87,1 | 55,2 | 69,0 | 76,6 | 78,4 | 80,6 | 83,2 | 78,0 | 70,4 | 59,9 |
| 0652 | ° | | 87,3 | 55,4 | 69,2 | 76,1 | 78,5 | 80,6 | 83,7 | 78,1 | 70,5 | 60,0 |
| 0682 | ° | | 88,8 | 56,8 | 70,3 | 77,7 | 79,7 | 82,2 | 85,2 | 79,6 | 72,2 | 61,7 |
| 0702 | ° | | 88,9 | 56,9 | 70,3 | 77,7 | 79,7 | 82,4 | 85,3 | 79,6 | 72,2 | 61,6 |
| 0752 | ° | | 89,4 | 57,4 | 70,8 | 77,6 | 79,9 | 82,5 | 86,2 | 79,9 | 72,2 | 61,7 |
| 0604 | ° | | 86,5 | 54,6 | 68,4 | 75,9 | 76,9 | 80,2 | 82,6 | 77,5 | 70,4 | 59,9 |
| 0654 | ° | | 86,5 | 54,6 | 68,4 | 76,1 | 76,9 | 80,3 | 82,6 | 77,5 | 70,4 | 59,9 |
| 0704 | ° | | 88,2 | 56,2 | 69,6 | 77,6 | 78,6 | 81,8 | 84,3 | 79,3 | 72,1 | 61,6 |
| 0754 | ° | | 89,5 | 57,5 | 70,9 | 79,3 | 80,6 | 83,1 | 85,4 | 80,4 | 73,0 | 62,5 |
| 0282 | L | | 72,4 | 40,7 | 55,1 | 58,4 | 60,0 | 68,5 | 68,8 | 59,8 | 51,3 | 40,8 |
| 0302 | L | | 73,5 | 41,7 | 56,1 | 61,9 | 60,9 | 69,2 | 69,8 | 61,5 | 53,0 | 42,4 |
| 0332 | L | | 73,9 | 42,1 | 56,2 | 63,6 | 61,0 | 69,3 | 70,3 | 62,1 | 53,3 | 43,0 |
| 0352 | L | | 74,5 | 42,7 | 56,8 | 61,6 | 61,9 | 69,6 | 71,3 | 63,5 | 54,4 | 44,1 |
| 0502 | L | | 82,2 | 50,3 | 64,1 | 70,8 | 75,7 | 76,2 | 77,6 | 71,6 | 63,5 | 54,7 |
| 0552 | L | | 82,9 | 51,0 | 64,8 | 72,4 | 76,7 | 76,8 | 77,9 | 72,2 | 63,6 | 54,7 |
| 0602 | L | | 83,3 | 51,4 | 65,2 | 71,4 | 76,8 | 76,9 | 79,2 | 72,7 | 63,7 | 54,9 |
| 0652 | L | | 83,7 | 51,8 | 65,6 | 69,9 | 76,9 | 77,0 | 80,1 | 73,1 | 63,9 | 55,2 |
| 0682 | L | | 84,9 | 52,9 | 66,3 | 70,9 | 77,9 | 78,4 | 81,3 | 74,0 | 65,5 | 56,7 |
| 0702 | L | | 85,0 | 53,1 | 66,5 | 70,8 | 77,8 | 78,7 | 81,6 | 73,9 | 65,5 | 56,6 |
| 0752 | L | | 86,1 | 54,1 | 67,5 | 70,6 | 78,2 | 79,0 | 83,3 | 74,9 | 65,6 | 56,7 |
| 0604 | L | | 76,7 | 44,8 | 58,7 | 65,2 | 65,3 | 72,3 | 73,0 | 64,8 | 57,0 | 47,2 |
| 0654 | L | | 77,1 | 45,3 | 59,1 | 66,9 | 65,3 | 72,5 | 73,4 | 65,3 | 57,2 | 47,6 |
| 0704 | L | | 78,0 | 46,0 | 59,4 | 65,3 | 66,7 | 73,0 | 74,6 | 67,0 | 58,7 | 49,0 |
| 0754 | L | | 84,0 | 52,0 | 65,4 | 74,7 | 76,9 | 78,3 | 79,1 | 72,8 | 62,2 | 51,8 |
| 0282 | A | | - | - | - | - | - | - | - | - | - | - |
| 0302 | A | | - | - | - | - | - | - | - | - | - | - |
| 0332 | A | | - | - | - | - | - | - | - | - | - | - |
| 0352 | A | | - | - | - | - | - | - | - | - | - | - |
| 0502 | A | | 86,6 | 54,8 | 68,6 | 76,4 | 77,7 | 80,3 | 82,6 | 77,7 | 70,4 | 59,8 |
| 0552 | A | | 86,9 | 55,0 | 68,8 | 76,9 | 78,4 | 80,5 | 82,8 | 77,8 | 70,4 | 59,8 |
| 0602 | A | | 87,1 | 55,2 | 69,0 | 76,6 | 78,4 | 80,6 | 83,2 | 78,0 | 70,4 | 59,9 |
| 0652 | A | | 87,3 | 55,4 | 69,2 | 76,1 | 78,5 | 80,6 | 83,7 | 78,1 | 70,5 | 60,0 |
| 0682 | A | | 88,8 | 56,8 | 70,3 | 77,7 | 79,7 | 82,2 | 85,2 | 79,6 | 72,2 | 61,7 |
| 0702 | A | | 88,9 | 56,9 | 70,3 | 77,7 | 79,7 | 82,4 | 85,3 | 79,6 | 72,2 | 61,6 |
| 0752 | A | | 89,4 | 57,4 | 70,8 | 77,6 | 79,9 | 82,5 | 86,2 | 79,9 | 72,2 | 61,7 |
| 0604 | A | | 86,5 | 54,6 | 68,4 | 75,9 | 76,9 | 80,2 | 82,6 | 77,5 | 70,4 | 59,9 |
| 0654 | A | | 88,2 | 56,2 | 69,6 | 77,7 | 78,6 | 81,9 | 84,3 | 79,3 | 72,1 | 61,6 |
| 0704 | A | | 88,2 | 56,2 | 69,6 | 77,6 | 78,6 | 81,8 | 84,3 | 79,3 | 72,1 | 61,6 |
| 0754 | A | | 89,5 | 57,5 | 70,9 | 79,3 | 80,6 | 83,1 | 85,4 | 80,4 | 73,0 | 62,5 |
| 0282 | E | | 73,0 | 41,3 | 55,6 | 58,9 | 60,9 | 69,0 | 69,3 | 60,8 | 52,7 | 41,8 |
| 0302 | E | | 73,5 | 41,7 | 55,8 | 61,9 | 60,9 | 69,2 | 69,8 | 61,5 | 53,0 | 42,4 |
| 0332 | E | | 74,3 | 42,5 | 56,6 | 63,8 | 61,7 | 69,8 | 70,6 | 62,7 | 54,2 | 43,6 |
| 0352 | E | | 74,5 | 42,7 | 56,8 | 61,6 | 61,9 | 69,6 | 71,3 | 63,5 | 54,4 | 44,1 |
| 0502 | E | | 82,2 | 50,3 | 64,1 | 70,8 | 75,7 | 76,2 | 77,6 | 71,6 | 63,5 | 54,7 |
| 0552 | E | | 82,9 | 51,0 | 64,8 | 72,4 | 76,7 | 76,8 | 77,9 | 72,2 | 63,6 | 54,7 |
| 0602 | E | | 83,3 | 51,4 | 65,2 | 71,4 | 76,8 | 76,9 | 79,2 | 72,7 | 63,7 | 54,9 |
| 0652 | E | | 83,7 | 51,8 | 65,6 | 69,9 | 76,9 | 77,0 | 80,1 | 73,1 | 63,9 | 55,2 |
| 0682 | E | | 84,9 | 52,9 | 66,3 | 70,9 | 77,9 | 78,4 | 81,3 | 74,0 | 65,5 | 56,7 |
| 0702 | E | | 85,0 | 53,1 | 66,5 | 70,8 | 77,8 | 78,7 | 81,6 | 73,9 | 65,5 | 56,6 |
| 0752 | E | | 86,1 | 54,1 | 67,5 | 70,6 | 78,2 | 79,0 | 83,3 | 74,9 | 65,6 | 56,7 |
| 0604 | E | | 76,7 | 44,8 | 58,7 | 65,2 | 65,3 | 72,3 | 73,0 | 64,8 | 57,0 | 47,2 |
| 0654 | E | | 77,8 | 45,8 | 59,3 | 67,2 | 66,6 | 73,2 | 73,9 | 66,3 | 58,6 | 48,8 |
| 0704 | E | | 78,0 | 46,0 | 59,4 | 65,3 | 66,7 | 73,0 | 74,6 | 67,0 | 58,7 | 49,0 |
| 0754 | E | | 84,0 | 52,0 | 65,4 | 74,7 | 76,9 | 78,3 | 79,1 | 72,8 | 62,2 | 51,8 |

Water temperature system side (in/out) 12°C/7°C
External air temperature 35°C
With standard fans (°)

***NB: Sizes 0282-0302-0332-0352 are only available in the silenced versions "HL/HE"***

## SOUND DATA

Sound power levels on the basis of measurements taken in accordance with ISO 9614 in compliance with EUROVENT certification (Eurovent 8/1 sound tests). This certification refers to the Sound Power in dB(A) which is therefore the only acoustic data to be considered binding.

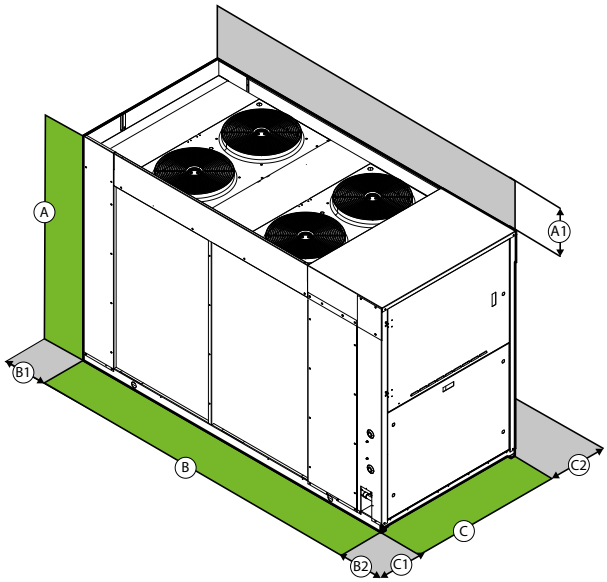
| Unit ECL H | Vers. | Notes | Total sound levels | | | Octave band (Hz) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Pow. dB(A) | Pres. 10m dB(A) | Pres. 1m dB(A) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| | | | | | | Sound power for central band [dB] (A) frequency | | | | | | |
| ***Sound data - HEATING MODE*** | | | | | | | | | | | | |
| **0282** | ° | | - | - | - | - | - | - | - | - | - | - |
| **0302** | ° | | - | - | - | - | - | - | - | - | - | - |
| **0332** | ° | | - | - | - | - | - | - | - | - | - | - |
| **0352** | ° | | - | - | - | - | - | - | - | - | - | - |
| **0502** | ° | | **86,6** | **54,8** | **68,6** | 76,4 | 77,7 | 80,3 | 82,6 | 77,7 | 70,4 | 59,8 |
| **0552** | ° | | **86,9** | **55,0** | **68,8** | 76,9 | 78,4 | 80,5 | 82,8 | 77,8 | 70,4 | 59,8 |
| **0602** | ° | | **87,1** | **55,2** | **69,0** | 76,6 | 78,4 | 80,6 | 83,2 | 78,0 | 70,4 | 59,9 |
| **0652** | ° | | **87,3** | **55,4** | **69,2** | 76,1 | 78,5 | 80,6 | 83,7 | 78,1 | 70,5 | 60,0 |
| **0682** | ° | | **88,8** | **56,8** | **70,3** | 77,7 | 79,7 | 82,2 | 85,2 | 79,6 | 72,2 | 61,7 |
| **0702** | ° | | **88,9** | **56,9** | **70,3** | 77,7 | 79,7 | 82,4 | 85,3 | 79,6 | 72,2 | 61,6 |
| **0752** | ° | | **89,4** | **57,4** | **70,8** | 77,6 | 79,9 | 82,5 | 86,2 | 79,9 | 72,2 | 61,7 |
| **0604** | ° | | **86,5** | **54,6** | **68,4** | 75,9 | 76,9 | 80,2 | 82,6 | 77,5 | 70,4 | 59,9 |
| **0654** | ° | | **86,5** | **54,6** | **68,4** | 76,1 | 76,9 | 80,3 | 82,6 | 77,5 | 70,4 | 59,9 |
| **0704** | ° | | **88,2** | **56,2** | **69,6** | 77,6 | 78,6 | 81,8 | 84,3 | 79,3 | 72,1 | 61,6 |
| **0754** | ° | | **89,5** | **57,5** | **70,9** | 79,3 | 80,6 | 83,1 | 85,4 | 80,4 | 73,0 | 62,5 |
| **0282** | **L** | | **72,4** | **40,7** | **55,1** | 58,4 | 60,0 | 68,5 | 68,8 | 59,8 | 51,3 | 40,8 |
| **0302** | **L** | | **73,5** | **41,7** | **56,1** | 61,9 | 60,9 | 69,2 | 69,8 | 61,5 | 53,0 | 42,4 |
| **0332** | **L** | | **73,9** | **42,1** | **56,2** | 63,6 | 61,0 | 69,3 | 70,3 | 62,1 | 53,3 | 43,0 |
| **0352** | **L** | | **74,5** | **42,7** | **56,8** | 61,6 | 61,9 | 69,6 | 71,3 | 63,5 | 54,4 | 44,1 |
| **0502** | **L** | | **86,6** | **54,8** | **68,6** | 70,8 | 75,7 | 76,2 | 77,6 | 71,6 | 63,5 | 54,7 |
| **0552** | **L** | | **86,9** | **55,0** | **68,8** | 76,9 | 78,4 | 80,5 | 82,8 | 77,8 | 70,4 | 59,8 |
| **0602** | **L** | | **87,1** | **55,2** | **69,0** | 76,6 | 78,4 | 80,6 | 83,2 | 78,0 | 70,4 | 59,9 |
| **0652** | **L** | | **87,3** | **55,4** | **69,2** | 76,1 | 78,5 | 80,6 | 83,7 | 78,1 | 70,5 | 60,0 |
| **0682** | **L** | | **88,8** | **56,8** | **70,3** | 77,7 | 79,7 | 82,2 | 85,2 | 79,6 | 72,2 | 61,7 |
| **0702** | **L** | | **88,9** | **56,9** | **70,3** | 77,7 | 79,7 | 82,4 | 85,3 | 79,6 | 72,2 | 61,6 |
| **0752** | **L** | | **89,4** | **57,4** | **70,8** | 77,6 | 79,9 | 82,5 | 86,2 | 79,9 | 72,2 | 61,7 |
| **0604** | **L** | | **86,5** | **54,6** | **68,4** | 75,9 | 76,9 | 80,2 | 82,6 | 77,5 | 70,4 | 59,9 |
| **0654** | **L** | | **86,5** | **54,6** | **68,4** | 76,1 | 76,9 | 80,3 | 82,6 | 77,5 | 70,4 | 59,9 |
| **0704** | **L** | | **88,2** | **56,2** | **69,6** | 77,6 | 78,6 | 81,8 | 84,3 | 79,3 | 72,1 | 61,6 |
| **0754** | **L** | | **89,5** | **57,5** | **70,9** | 79,3 | 80,6 | 83,1 | 85,4 | 80,4 | 73,0 | 62,5 |
| **0282** | **A** | | - | - | - | - | - | - | - | - | - | - |
| **0302** | **A** | | - | - | - | - | - | - | - | - | - | - |
| **0332** | **A** | | - | - | - | - | - | - | - | - | - | - |
| **0352** | **A** | | - | - | - | - | - | - | - | - | - | - |
| **0502** | **A** | | **86,6** | **54,8** | **68,6** | 76,4 | 77,7 | 80,3 | 82,6 | 77,7 | 70,4 | 59,8 |
| **0552** | **A** | | **86,9** | **55,0** | **68,8** | 76,9 | 78,4 | 80,5 | 82,8 | 77,8 | 70,4 | 59,8 |
| **0602** | **A** | | **87,1** | **55,2** | **69,0** | 76,6 | 78,4 | 80,6 | 83,2 | 78,0 | 70,4 | 59,9 |
| **0652** | **A** | | **87,3** | **55,4** | **69,2** | 76,1 | 78,5 | 80,6 | 83,7 | 78,1 | 70,5 | 60,0 |
| **0682** | **A** | | **88,8** | **56,8** | **70,3** | 77,7 | 79,7 | 82,2 | 85,2 | 79,6 | 72,2 | 61,7 |
| **0702** | **A** | | **88,9** | **56,9** | **70,3** | 77,7 | 79,7 | 82,4 | 85,3 | 79,6 | 72,2 | 61,6 |
| **0752** | **A** | | **89,4** | **57,4** | **70,8** | 77,6 | 79,9 | 82,5 | 86,2 | 79,9 | 72,2 | 61,7 |
| **0604** | **A** | | **86,5** | **54,6** | **68,4** | 75,9 | 76,9 | 80,2 | 82,6 | 77,5 | 70,4 | 59,9 |
| **0654** | **A** | | **88,2** | **56,2** | **69,6** | 77,7 | 78,6 | 81,9 | 84,3 | 79,3 | 72,1 | 61,6 |
| **0704** | **A** | | **88,2** | **56,2** | **69,6** | 77,6 | 78,6 | 81,8 | 84,3 | 79,3 | 72,1 | 61,6 |
| **0754** | **A** | | **89,5** | **57,5** | **70,9** | 79,3 | 80,6 | 83,1 | 85,4 | 80,4 | 73,0 | 62,5 |
| **0282** | **E** | | **73,0** | **41,3** | **55,6** | 58,9 | 60,9 | 69,0 | 69,3 | 60,8 | 52,7 | 41,8 |
| **0302** | **E** | | **73,5** | **41,7** | **55,8** | 61,9 | 60,9 | 69,2 | 69,8 | 61,5 | 53,0 | 42,4 |
| **0332** | **E** | | **74,3** | **42,5** | **56,6** | 63,8 | 61,7 | 69,8 | 70,6 | 62,7 | 54,2 | 43,6 |
| **0352** | **E** | | **74,5** | **42,7** | **56,8** | 61,6 | 61,9 | 69,6 | 71,3 | 63,5 | 54,4 | 44,1 |
| **0502** | **E** | | **86,6** | **54,8** | **68,6** | 70,8 | 75,7 | 76,2 | 77,6 | 71,6 | 63,5 | 54,7 |
| **0552** | **E** | | **86,9** | **55,0** | **68,8** | 76,9 | 78,4 | 80,5 | 82,8 | 77,8 | 70,4 | 59,8 |
| **0602** | **E** | | **87,1** | **55,2** | **69,0** | 76,6 | 78,4 | 80,6 | 83,2 | 78,0 | 70,4 | 59,9 |
| **0652** | **E** | | **87,3** | **55,4** | **69,2** | 76,1 | 78,5 | 80,6 | 83,7 | 78,1 | 70,5 | 60,0 |
| **0682** | **E** | | **88,8** | **56,8** | **70,3** | 77,7 | 79,7 | 82,2 | 85,2 | 79,6 | 72,2 | 61,7 |
| **0702** | **E** | | **88,9** | **56,9** | **70,3** | 77,7 | 79,7 | 82,4 | 85,3 | 79,6 | 72,2 | 61,6 |
| **0752** | **E** | | **89,4** | **57,4** | **70,8** | 77,6 | 79,9 | 82,5 | 86,2 | 79,9 | 72,2 | 61,7 |
| **0604** | **E** | | **86,5** | **54,6** | **68,4** | 75,9 | 76,9 | 80,2 | 82,6 | 77,5 | 70,4 | 59,9 |
| **0654** | **E** | | **88,2** | **56,2** | **69,6** | 77,7 | 78,6 | 81,9 | 84,3 | 79,3 | 72,1 | 61,6 |
| **0704** | **E** | | **88,2** | **56,2** | **69,6** | 77,6 | 78,6 | 81,8 | 84,3 | 79,3 | 72,1 | 61,6 |
| **0754** | **E** | | **89,5** | **57,5** | **70,9** | 79,3 | 80,6 | 83,1 | 85,4 | 80,4 | 73,0 | 62,5 |

Water temperature system side (in/out) 40°C/45°C;
External air temperature 7°C b.s/6°C b.u.
With standard fans (°)

***NB: Sizes 0282-0302-0332-0352 are only available in the silenced versions "HL/HE"***

## MINIMUM TECHNICAL SPACES

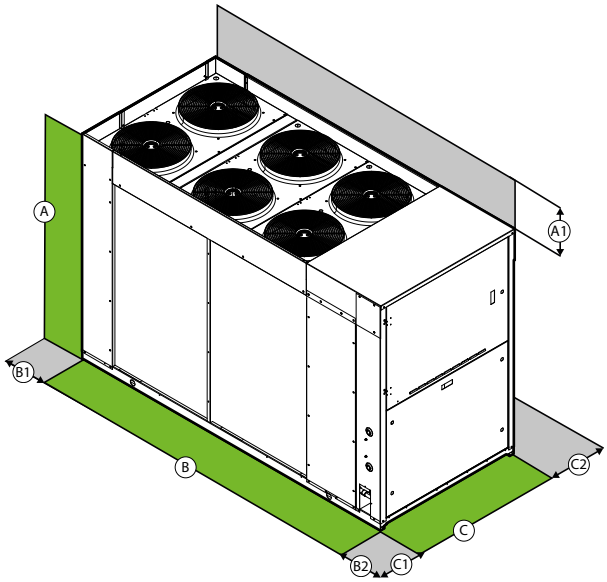
ECL 0282 (HL)




**Minimum technical spaces**

| ECL | | |
|---|---|---|
| A1 | mm | 3000 |
| B1 | mm | 800 |
| B2 | mm | 1100 |
| C1 | mm | 800 |
| C2 | mm | 800 |

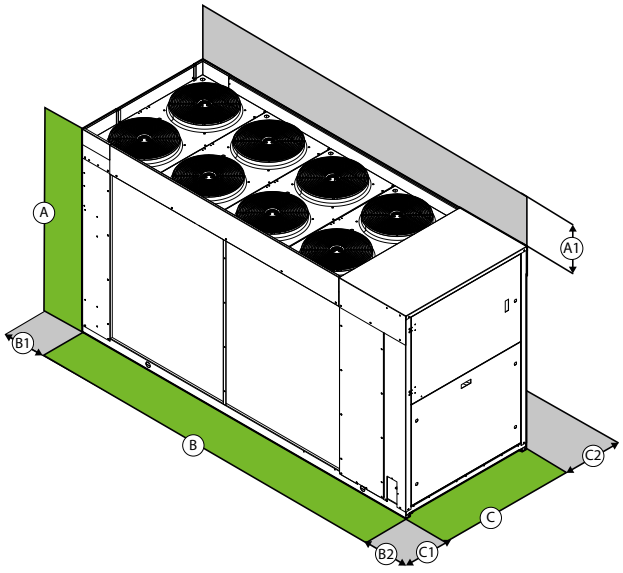
ECL 0282 (HE)
ECL 0302 (HL-HE)
ECL 0332 (HL)




**Minimum technical spaces**

| ECL | | |
|---|---|---|
| A1 | mm | 3000 |
| B1 | mm | 800 |
| B2 | mm | 1100 |
| C1 | mm | 800 |
| C2 | mm | 800 |

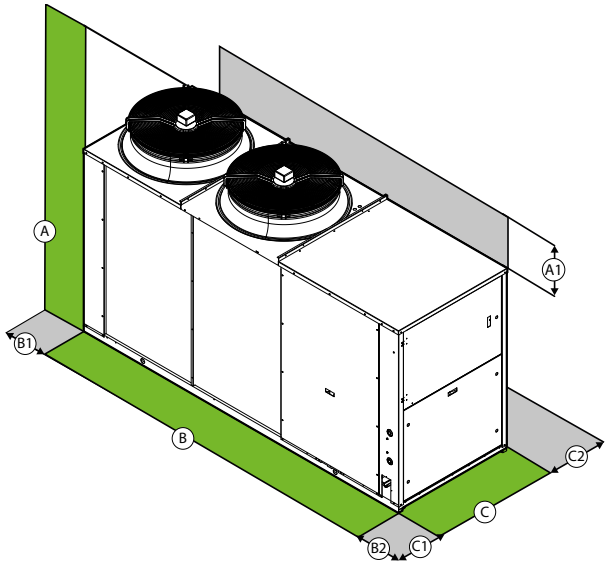
ECL 0332 (HA-HE)
ECL 0352 (HL-HE)




**Minimum technical spaces**

| ECL | | |
|---|---|---|
| A1 | mm | 3000 |
| B1 | mm | 800 |
| B2 | mm | 1100 |
| C1 | mm | 800 |
| C2 | mm | 800 |

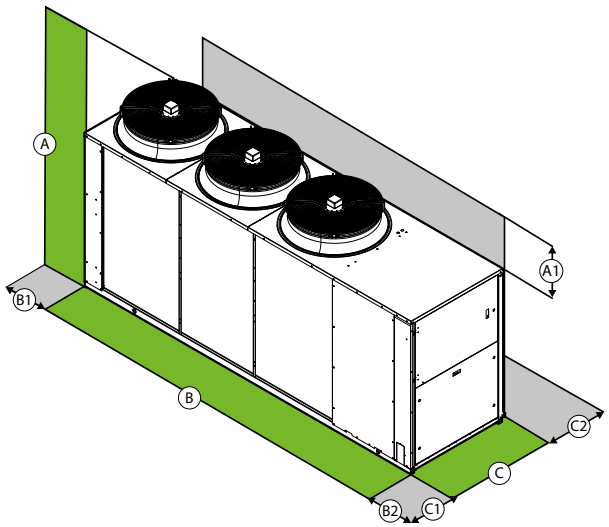
ECL 0502 (H-HL-HA-HE)
ECL 0552 (H-HL-HA-HE)
ECL 0602 (H-HL-HA-HE)
ECL 0652 (H-HL-HA-HE)
ECL 0604 (H-HL-HA-HE)
ECL 0654 (H-HL)




**Minimum technical spaces**

| ECL | | |
|---|---|---|
| A1 | mm | 3000 |
| B1 | mm | 800 |
| B2 | mm | 1100 |
| C1 | mm | 800 |
| C2 | mm | 800 |

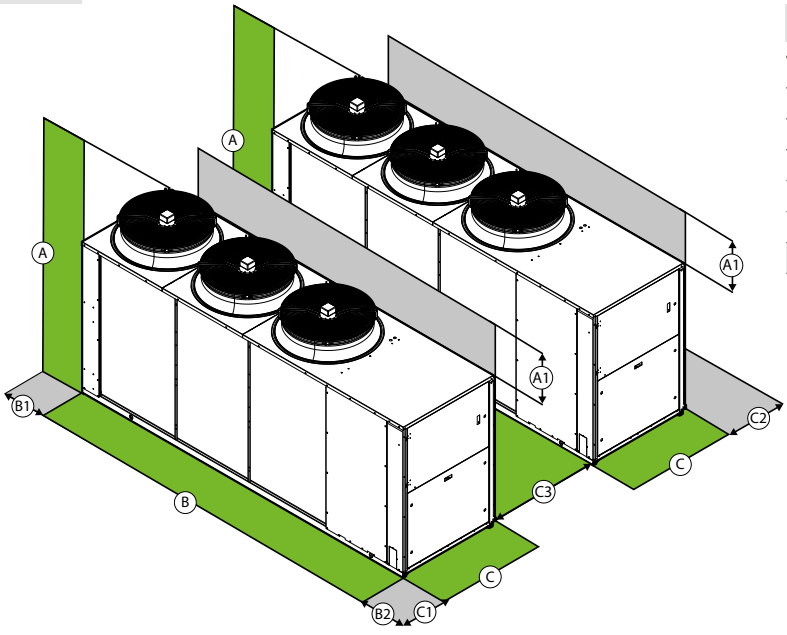
ECL 0682 (H-HL-HA-HE)
ECL 0702 (H-HL-HA-HE)
ECL 0752 (H-HL-HA-HE)
ECL 0654 (HA-HE)
ECL 0704 (H-HL-HA-HE)
ECL 0754 (H-HL-HA-HE)




**Minimum technical spaces**

| ECL | | |
|---|---|---|
| A1 | mm | 3000 |
| B1 | mm | 800 |
| B2 | mm | 1100 |
| C1 | mm | 800 |
| C2 | mm | 800 |

**Example units in parallel**




**Minimum technical spaces**

| ECL | | |
|---|---|---|
| A1 | mm | 3000 |
| B1 | mm | 800 |
| B2 | mm | 1100 |
| C1 | mm | 800 |
| C2 | mm | 800 |
| **C3** | **mm** | **1600** |

## After Sales

### Warranty

All Airedale products or parts (non consumable) supplied for installation within the UK mainland and commissioned by an Airedale engineer, carry a full Parts & Labour warranty for a period of 12 months from the date of commissioning or 18 months from the date of despatch, whichever is the sooner.

Parts or Equipment supplied by Airedale for installation within the UK or for Export that are properly commissioned in accordance with Airedale standards and specification, not commissioned by an Airedale engineer; carry a 12 month warranty on non consumable Parts only from the date of commissioning or 18 months from the date of despatch, whichever is the sooner.

Parts or equipment installed or commissioned not to acceptable Airedale standards or specification invalidate all warranty.

### Warranty is only valid in the event that

In the period between delivery and commissioning the equipment:

- is properly protected & serviced as per the Airedale installation & maintenance manual provided
- where applicable the glycol content is maintained to the correct level.

In the event of a problem being reported and once warranty is confirmed* as valid under the given installation and operating conditions, the Company will provide the appropriate warranty coverage (as detailed above) attributable to the rectification of any affected Airedale equipment supplied (excluding costs for any specialist access or lifting equipment that must be ordered by the customer).

*Once warranty is confirmed, maintenance must be continued to validate the warranty period.

Any spare part supplied by Airedale under warranty shall be warranted for the unexpired period of the warranty or 3 months from delivery, whichever period is the longer. To be read in conjunction with the Airedale Conditions of Sale - Warranty and Warranty Procedure, available upon request.

### Procedure

When a component part fails, a replacement part should be obtained through our Spares department. If the part is considered to be under warranty, the following details are required to process this requirement. Full description of part required, including Airedale's part number, if known. The original equipment serial number. An appropriate purchase order number.

A spares order will be raised under our warranty system and the replacement part will be despatched, usually within 24 hours should they be in stock. When replaced, the faulty part must be returned to Airedale with a suitably completed and securely attached "Faulty Component Return" (FCR) tag. FCR tags are available from Airedale and supplied with each Warranty order.

On receipt of the faulty part, suitably tagged, Airedale will pass to its Warranty department, where it will be fully inspected and tested in order to identify the reason for failure, identifying at the same time whether warranty is justified or not.

On completion of the investigation of the returned part, a full "Report on Goods Returned" will be issued. On occasion the release of this complete report may be delayed as component manufacturers become involved in the investigation. When warranty is allowed, a credit against the Warranty invoice will be raised. Should warranty be refused the Warranty invoice becomes payable on normal terms.

### Exclusions

Warranty may be refused for the following reasons.

- Misapplication of product or component
- Incorrect site installation
- Incomplete commissioning documentation
- Inadequate site installation
- Inadequate site maintenance
- Damage caused by mishandling
- Replaced part being returned damaged without explanation
- Unnecessary delays incurred in return of defective component

### Returns analysis

All faulty components returned under warranty are analysed on a monthly basis as a means of verifying component and product reliability as well as supplier performance. It is important that all component failures are reported correctly.


Head Office
Airedale International Air Conditioning Ltd
Leeds Road
Rawdon
Leeds LS19 6JY
Tel: +44 (0) 113 2391000
Fax:+44 (0) 113 2507219
E-mail enquiries@airedale.com
Web www.airedale.com