DeltaChill

Air Cooled and FreeCooling Chiller
105-1110kW
R32

Technical Manual
Original Instructions

ecoDesign COMPLIANT

CE

bsi. ISO 9001 Quality Management FM00542 ISO 14001 Environmental Management EMS52086

Special Precautions

The guidance in this manual must be followed to provide safe, efficient and trouble-free operation. In addition, particular care must be exercised regarding the special precautions listed below. Failure to properly address these critical areas could result in property damage or loss, personal injury or death. These instructions are subject to any additional restrictive local or national codes.

Hazard Intensity Levels

1. **DANGER:** Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.
2. **WARNING:** Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.
3. **CAUTION:** Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.
4. **IMPORTANT:** Indicates a situation which, if not avoided, MAY result in a potential safety concern.
5. **NOTE:** Indicates information that is not a safety concern but may invalidate warranty if not adhered to.

⚠CAUTION
Full details will be forwarded on acceptance of the maintenance agreement. 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
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. Also ensure that there are no other power feeds to the unit such as fire alarm circuits, BMS circuits etc.
This refrigerant is classified as lower flammability according to the international standard for refrigerant designation and safety classification, ISO 817:2014.
No smoking or NAKED FLAME
Site risk assessments, including fire protocol, must be in place and must include clear safety instructions describing what to do in the event of a fire. Such risk assessments must be maintained by the site operator and be available in the location where the equipment is installed. R32 can produce toxic and corrosive gasses when burnt such as hydrogen fluoride. Any burning refrigerant should not be approached and the appropriate steps, as outlined in the site risk assessment, should be followed.
It is important that the ATEX rated panel ventilation fan is not facing any potential sources of ignition and is kept free from obstruction at all times. In the event of a leak, the ventilation fan's purpose is to reduce a potentially flammable concentration of refrigerant in the air from the compressor enclosure to atmosphere. Provision must be taken to ensure that any leaked refrigerant is not allowed to become stagnant within containment systems or drains.
When adding to an existing controls scheme, please consult Airedale Controls to ensure strategy compatibility.
Password Protection The control system integrity shall be maintained by restricting access with a password PIN number.
Only use the SHC data when calculating fluid volume. The figure for 0% should be used for 100% water.
The waterside temperature should not go above the TS of +40°C. The PRV will release at water temperatures >= 42.2°C.
The sound pressure data quoted is only valid in free field conditions, where the unit is installed on a reflective base. If the equipment is placed adjacent to a reflective wall, values may vary to those stated, typically increasing by 3dB for each side added.
The unit water connections are NOT designed to support external pipework, pipework should be supported during installation.
Constant water flow MUST be maintained. Variable water volume is NOT recommended and may invalidate warranty. The correct operation of the flow switch is critical if the chiller warranty is to be vaild.
The unit should be lifted from the base and where possible, with all packing and protection in position. If any other type of slinging is used, due care should be taken to ensure that the slings do not crush the casework or coil.
Prior to connecting services, ensure that the equipment is installed and completely level.
Do not connect any services until all anti vibration mounts have been fully adjusted.
Mountings must be adjusted incrementally in turn. Do not fully adjust 1 mount at a time as this may overload and damage springs. Do not connect any services until all anti vibration mounts have been fully adjusted.
Avoid large voltage drops on cable runs, particularly low voltage wiring. The Emergency Stop MUST NOT be used to stop the chiller other than in the event of an emergency.

ALL work must be carried out by technically trained competent personnel. The equipment contains live electrical and moving parts, isolate prior to maintenance or repair work.
If the unit is operated without water flow the unit will be damaged.
The L4 permanent supply also provides power to the leak detector. Check phase rotation of electrical supply prior to running the compressor as it's direction sensitive.
The plugged pLAN termination ensures that the connections are made simultaneously. Failure to attach the cables this way may cause damage to the controller.

⚠IMPORTANT
EC fans and Inverter loads cannot be corrected by the PFC capacitors. The overall system power factor may vary based on operating conditions.
To change the PIN number; please contact Airedale at time of order with the preferred 4 digit number.
The water flow switch or pump interlock must be fitted in addition to the flow proving device to validate warranty.
The equipment and system should be kept clean and free of solid, scale, corrosion and biological fouling. Failure to do so may invalidate the warranty.
The Water Treatment Guidelines do not give exhaustive list of all the substances found in plant items produced by Airedale and specific advice should be sought for individual items of equipment or specific applications, if required.
The installation information is for general guidance; please refer to the certified drawings provided for installation.
The equipment contains live electrical and moving parts, ISOLATE prior to maintenance or repair work. The unit isolators DO NOT isolate the incoming mains supply, but isolate the individual electrical panels. Isolate REMOTELY the mains incoming supply to the BUSBAR chamber prior to maintenance or repair work.

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.

⚠CAUTION	Full details will be forwarded on acceptance of the maintenance agreement. 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, as with any mechanical or 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. Also ensure that there are no other power feeds to the unit such as fire alarm circuits, BMS circuits etc.

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 product range within this document utilises R32 refrigerant, which requires careful attention to proper storage and handling procedures. Use only manifold gauge sets designed for use with R32 refrigerant. Use only refrigerant recovery units and cylinders designed for use with A2L refrigerants. 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

Allowable Temperature Range (TS) = Min -20°C* to Max 135°C**

Maximum Allowable Pressure (PS) = High Side 40.5 Barg, Low side 24.5 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.

***Please refer to Mechanical Data for unit specific PS values.

Waterside

Allowable Temperature Range (TS) = Min -20°C* to Max 40°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.

The waterside temperature must not exceed the TS of +40°C.

The PRV will release at water temperatures >= 42.2°C.

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 R32 refrigerant has a GWP of 675 (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 compliance metrics. Products sold outside of the EU are exempt from this directive.

Dangerous Substances and Explosive Atmospheres Regulations

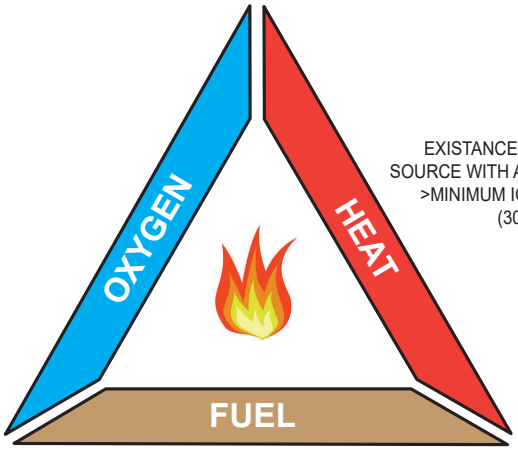
The completion of a DSEAR (Dangerous Substances and Explosive Atmospheres Regulations) risk assessment must be completed as a legal requirement by the employer of the business where this equipment will be installed. This is not the responsibility of Airedale International Air Conditioning Ltd to undertake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

Safe Operating Limits

The chillers in this range have operating limits set to ensure that the R32 refrigerant does not become unstable. The unit is designed exclusively for open air use and access should be limited to supervised or authorised personnel only. The installation of the unit is subject to various design aspects which must be adhered to, as these ensure the safety and efficiency of operation.

Flammability

In the event of a leak the combination of the following 3 operating conditions detailed in the fire triangle MUST be avoided at all times. Failure to do this could cause a fire.



EXISTANCE OF AN IGNITION SOURCE WITH AN IGNITION ENERGY >MINIMUM IGNITION ENERGY (30-100mJ)

A CONCENTRATION OF THE REFRIGERANT IN AIR > LFL (LOWER FLAMMABILITY LEVEL) AND < UFL (UPPER FLAMMABILITY LEVEL) 14 Vol.% TO 31 Vol.%

⚠CAUTION	This refrigerant is classified as lower flammability according to the international standard for refrigerant designation and safety classification, ISO 817:2014.

No smoking or NAKED FLAME

⚠CAUTION	Site risk assessments, including fire protocol, must be in place and must include clear safety instructions describing what to do in the event of a fire. Such risk assessments must be maintained by the site operator and be available in the location where the equipment is installed. R32 can produce toxic and corrosive gasses when burnt such as hydrogen fluoride. Any burning refrigerant should not be approached and the appropriate steps, as outlined in the site risk assessment, should be followed.

⚠CAUTION	It is important that the ATEX rated panel ventilation fan is not facing any potential sources of ignition and is kept free from obstruction at all times. In the event of a leak, the ventilation fan's purpose is to reduce a potentially flammable concentration of refrigerant in the air from the compressor enclosure to atmosphere. Provision must be taken to ensure that any leaked refrigerant is not allowed to become stagnant within containment systems or drains.

Environmental Considerations

Freeze Protection

The instructions below must be followed to protect the unit during low temperature operation in both the ON and OFF state.

An appropriate concentration of glycol(1) is required when the unit is operating with a supply water temperature set point of <=+5°C or if the evaporating temperature is <=+3°C.

Units subject to ambient temperatures lower than 0°C, a minimum of 2 of the following are required:

1. Glycol of an appropriate concentration(1) is used within the system to ensure adequate freeze protection. Please ensure that the concentration is capable of protection to at least 3K lower than the minimum ambient the chiller can be subjected to.

2. The water/glycol solution should be continuously circulated through all waterside pipework and coils to prevent static water from freezing 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).

3. Trace heating should be adequately sized and provided by others for all interconnecting water pipework between the chiller and the process.

Trace Heating

Water pipework trace heating is included as standard within the chiller. It is imperative that as soon as the chiller is filled with water/glycol that a separately fused, permanent, single phase and neutral supply is fitted to the trace heating, evaporator immersion heater and controls circuits. This circuit should be backed up in the event of a power failure to prevent a potential freeze scenario. Please reference the interconnecting wiring diagram for further information.

The chiller must be filled with water/glycol before power is applied to the trace heating circuit. Failure to do so will damage any immersion heaters present.

Maintenance

It is important that the glycol concentration is not diluted, if a pressurisation unit is present to maintain system pressure then Airedale advises that a premixed solution of glycol to the required concentration is used and not water. Airedale recommends that during prolonged cold periods or during winter months that the frequency of glycol concentration checks are increased to ensure the glycol meets the required concentration.

During any reclamation of refrigerant from the evaporator during the off state, ensure the water/glycol solution is continuously circulated to prevent static water from freezing.

If maintenance work is being carried out on the chiller preventing fluid flow whilst the ambient temperature is within 3K of the fluid freezing point, then the fluid circuit must be fully drained and the evaporator immersion heaters should be turned off.

Free Cooling Chillers

For free cooling chillers it is mandatory that glycol of an appropriate concentration(1) is used within the coil volume. The concentration should be capable of protection to at least 3K lower than the minimum ambient.

(1) Refer to your glycol supplier for specific details. Airedale insists that the glycol freeze point (the temperature at which ice crystals begin to form) is used rather than the burst point (the temperature the fluid freezes and becomes expansive) for all pumped systems. Failure to follow these instructions can damage pumps if slush is present and the pumps start to run.

Flow Control

For fixed flow applications, when the chiller is in operation the design water flow MUST be maintained at all times within acceptable tolerances (±5%). For variable flow systems, flow variation must not exceed 10% of the design flow per minute and both the evaporator minimum/maximum flow rates should always be respected. 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/EU 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.

Occupancy Note

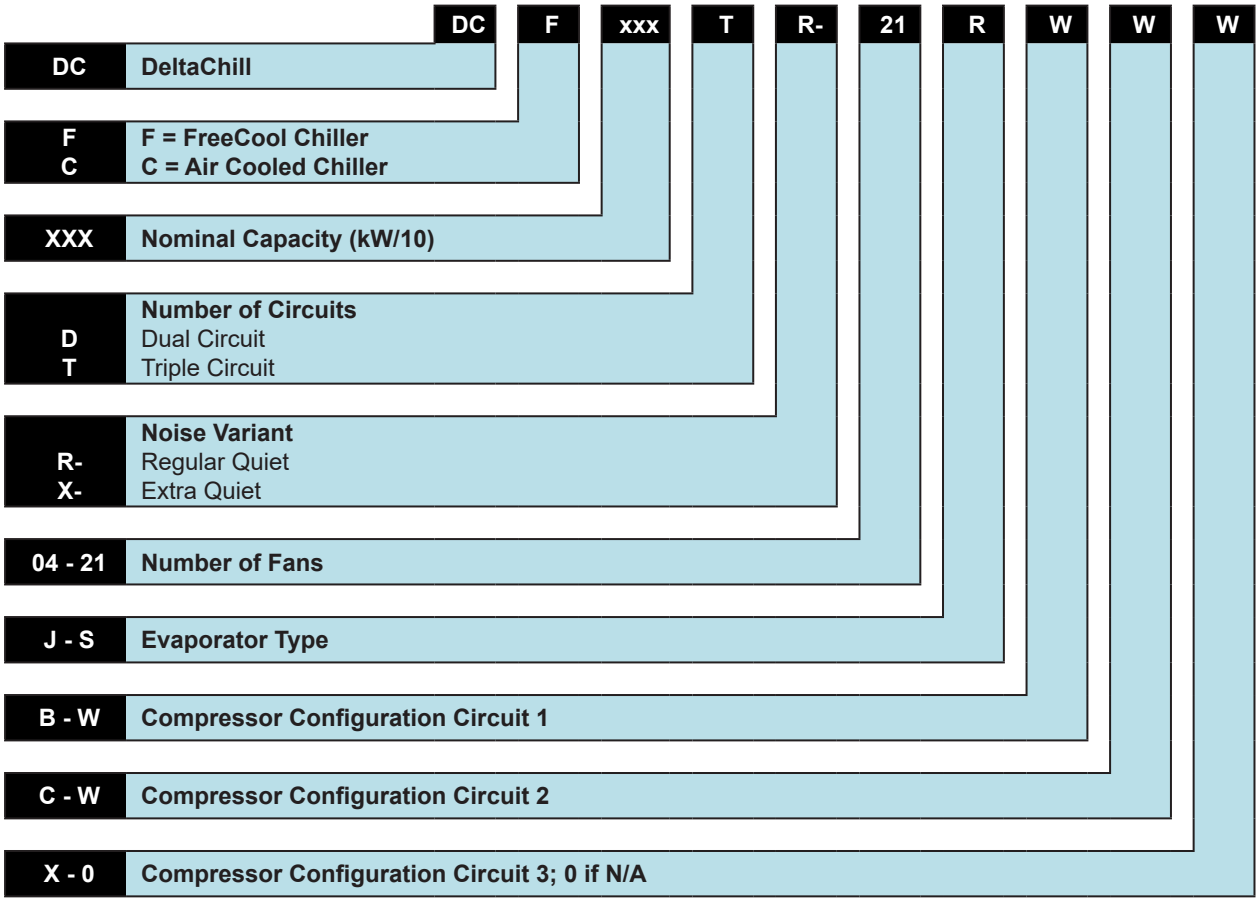
When placing a chiller the access category for the surrounding area needs to be classified in accordance with EN 378-1:2016 section 5.1.1.

Access to the chiller should be limited to supervised or authorised access only (access categories B and C) as described in EN378-1:2016 Table 4. This access level needs to be confirmed by the end user, and the location within which the product is to be installed needs to be defined. EN 378-1:2016 section 5.3 describes the four main types of location and the hazards associated with each. This range has been designed to be installed in an open air environment (location class III) and shall not be applied in alternative locations.

As an air cooled Chiller typically in an ‘Authorized Access’ installation, located in open air, ‘Class III’ location, EN378-1:2016 Table C.2 states that there is ‘No charge restriction’ for these systems using R32 (A2L) refrigerant.

Contents

Nomenclature



Introduction

The Airedale range of DeltaChill air cooled and free cooling liquid chillers covers the nominal capacity range 105 - 1110kW. The range is available with many optional variations, including Quiet and Extra Quiet sound level variants. Attention has been placed on maximising the unit's performance while keeping footprint to an absolute minimum. The DeltaChill range has been expertly engineered and managed using the best available technology and components, to optimise performance and minimise environmental impact. DeltaChill is ideal for cooling a wide range of applications involving medium and diverse cooling loads. Configuration flexibility enables selection of the optimum model in terms of capacity, number of fans, energy efficiency and sound.

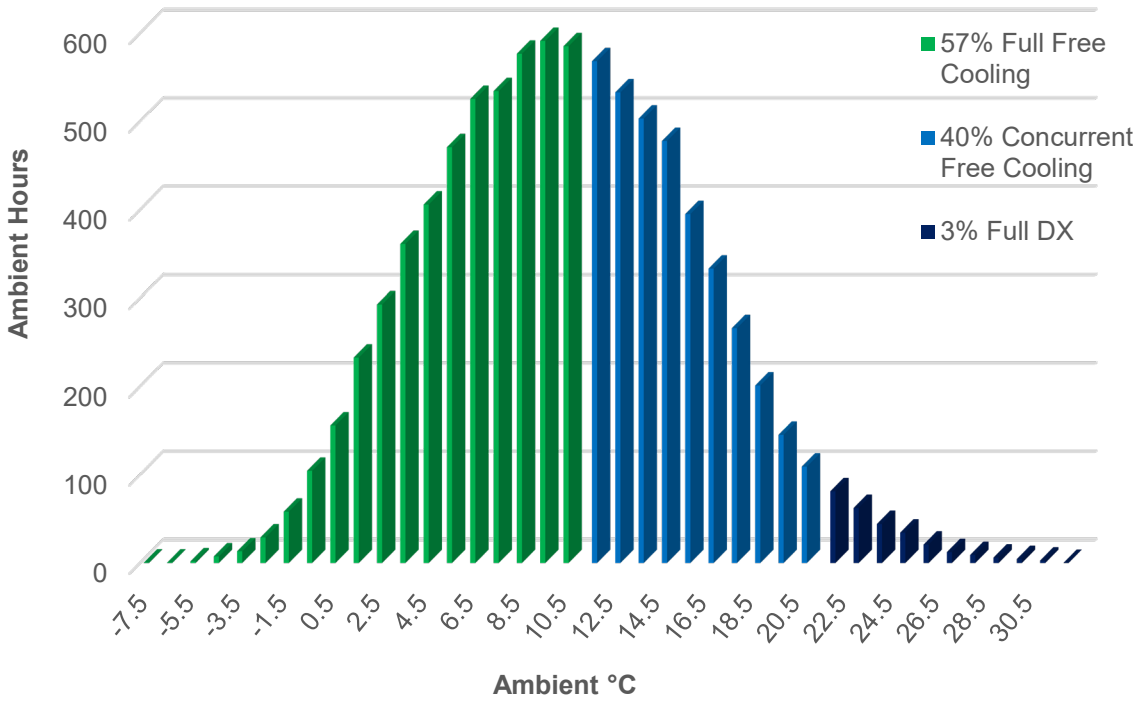
Free Cooling Operation

The DeltaChill chiller has been designed to provide the cooling load required whilst optimising energy efficiency at all times and as such will take advantage of free cooling whenever available. If the free cooling available cannot satisfy the required full cooling load, direct expansion cooling is used to supplement the output.

In high ambients where free cooling is not available the fan speed modulates in the conventional manner to maintain an optimised head pressure. Free cooling is initiated wherever the outdoor ambient is 2K less than the return water temperature. During concurent cooling mode the condensing temperature is constantly monitored and intelligently kept within the compressor envelope to allow the fans to run as fast as possible and therefore achieve the most free-cooling without having a negative impact on compressor integrity.

In ambients where the free cooling coil is capable of meeting the full cooling demand, the condenser fans are modulated to provide the desired duty. The condenser fans are capable of being modulated between 15-100% of airflow to maintain the supply water temperature. During periods where the condenser fan speed has been reduced to a minimum, the supply water temperature will then be controlled by the 3 way valve.

Free Cooling vs. Mechanical Cooling



Unit Overview

Airflow

- EC Condenser Fans
- AC Condenser Fans
- Optional High Airflow EC Condenser Fans
- No Discharge Plenum
- 300mm Fan Discharge Plenum
- 800mm Extended Height Fan Discharge Plenum

Electrical Panel

- Single Point 3 Phase Isolation
- UltraCap Power Backup
- Optional Control Panel Heater
- Optional Panel Ventilation
- Optional Power Monitoring
- Optional Weatherproof Rain Hood

Controls

- Helix™ Microprocessor
- Leak Detection
- Intelligent Head Pressure Control

Coils

- Epoxy Coated Microchannel Condenser Coils
- RTPF FreeCooling Coils

Waterside

- Differential Pressure Sensor
- Flow Switch
- Pump Interlock
- Water Filter
- Various Pump Options
- Pad or Immersion Heater
- Grooved and Clamped Type Connections

Refrigeration

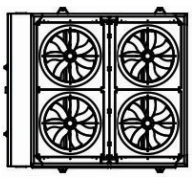
- Scroll Compressors
- R32 Optimised Brazed Plate or Shell and Tube Evaporator
- Liquid and Discharge Shut Off Valves
- Liquid Line Sight Glass
- Dual Pressure Relief Valves

Range Layout

4 Fan Units

DCC 105-260kW

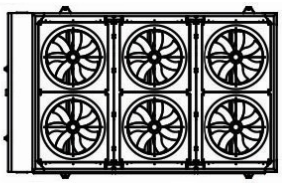
DCF 115-170kW



6 Fan Units

DCC 110-355kW

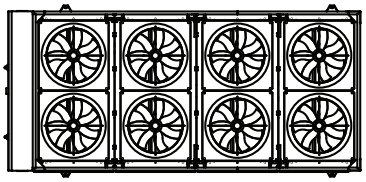
DCF 120-290kW



8 Fan Units

DCC 210-455kW

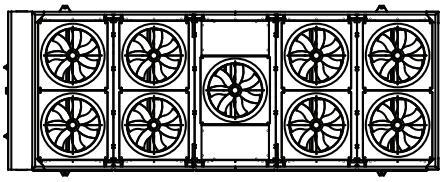
DCF 230-455kW



9 Fan Units

DCC 485kW

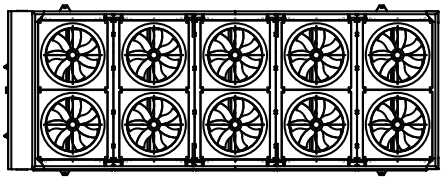
DCF 535kW



10 Fan Units

DCC 330-575kW

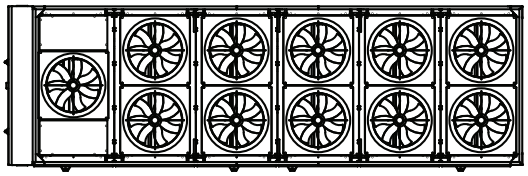
DCF 360-630kW



11 Fan Units

DCC 480-625kW

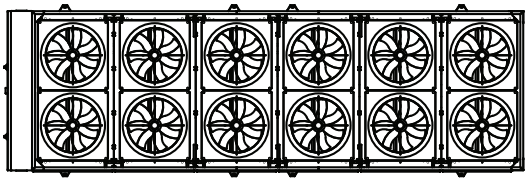
DCF 530-675kW



12 Fan Units

DCC 435-625kW

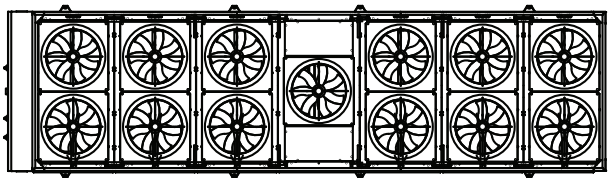
DCF 465-695kW



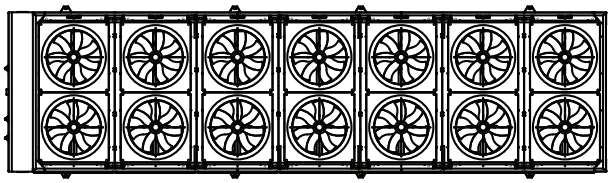
13 Fan Units

DCC 490-685kW

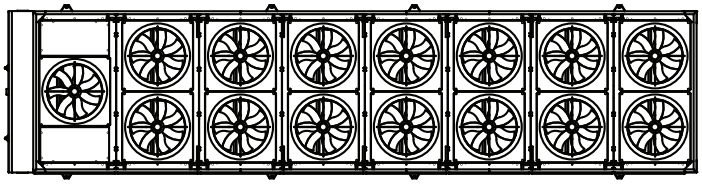
DCF 540-770kW



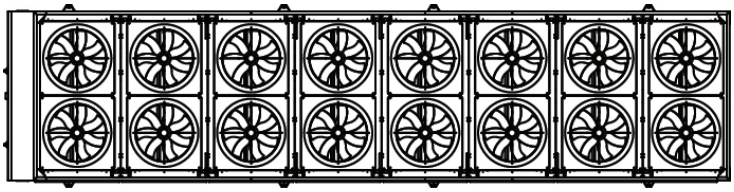
14 Fan Units
DCC 565-765kW
DCF 610-835kW



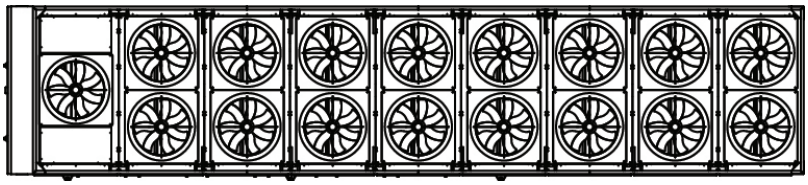
15 Fan Units
DCC 625-975kW
DCF 690-1070kW



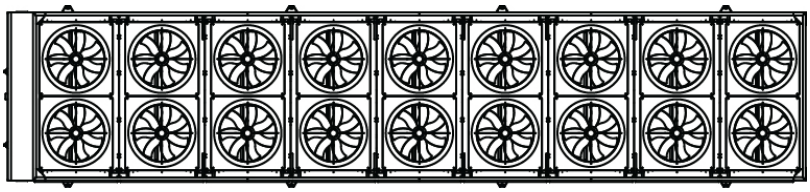
16 Fan Units
DCC 680-690kW
DCF 760-780kW



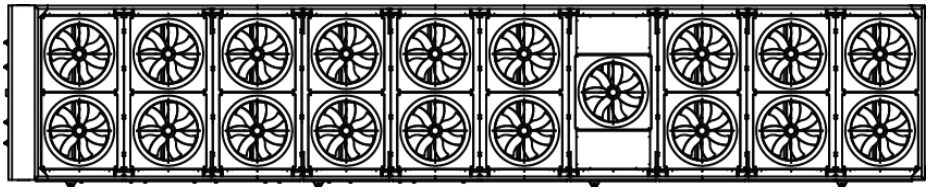
17 Fan Units
DCC 630-765kW
DCF 695-845kW



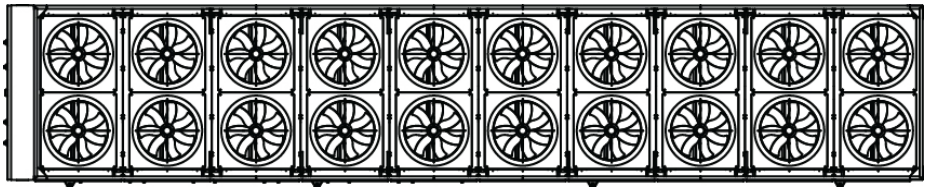
18 Fan Units
DCC 640-1000kW
DCF 710-1100kW



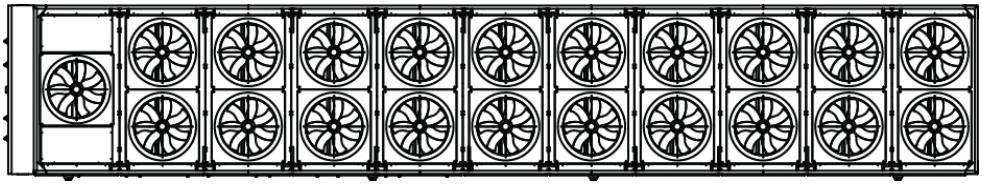
19 Fan Units
DCC 700kW
DCF 780-790kW



20 Fan Units
DCC 770kW
DCF 845-855kW



21 Fan Units
DCC 845-1010kW
DCF 915-1110kW



Condenser fan layout may vary with unit configuration.

Refrigeration

	Features	DCCxxxDR	DCCxxxDX	DCFxxxDR	DCFxxxDX	DCCxxxTR	DCCxxxTX	DCFxxxTR	DCFxxxTX
Refrigeration	Full Operating Charge of R32	●	●	●	●	●	●	●	●
	Scroll Compressor Arrangement	●	●	●	●	●	●	●	●
	Dual Refrigeration Circuits	●	●	●	●	—	—	—	—
	Triple Refrigeration Circuits	—	—	—	—	●	●	●	●
	R32 Optimised Evaporator	●	●	●	●	●	●	●	●
	Microchannel Condenser Coils with e-coat	●	●	●	●	●	●	●	●
	Ventilated Compressor Enclosure	○	●	○	●	○	●	○	●
	Electronic Expansion Valves	●	●	●	●	●	●	●	●
	Liquid Line Sight Glass	●	●	●	●	●	●	●	●
	Liquid and Discharge Line Ball Valve	●	●	●	●	●	●	●	●
	Large Capacity Filter Drier	●	●	●	●	●	●	●	●
	Manual Reset High Pressure Switch	●	●	●	●	●	●	●	●
	Auto Reset Low Pressure Switch (LP Via Microprocessor)	●	●	●	●	●	●	●	●
	Suction and Liquid Pressure Transducers	●	●	●	●	●	●	●	●
	Compressor Minimum Differential Protection	●	●	●	●	●	●	●	●
	Dual Maintainable Pressure Relief Valve	●	●	●	●	●	●	●	●
	Refrigerant Leak Detection	●	●	●	●	●	●	●	●
	FreeCooling Capability	—	—	●	●	—	—	●	●

● Standard Features ○ Optional Features — Features Not Available

Compressor

Scroll compressors comprising:

- Internal motor protection
- Internal pressure relief
- Non return valve
- External discharge temperature protection
- Oil sight glass

A liquid line sight glass is fitted to give an indication of the state of the refrigerant within the system. If the sight glass becomes yellow it's an indication that the filter drier requires changing. Each Tandem / Trio set has an oil equalisation line. The compressors are mounted to the rigid galvanised heavy duty sub-frame with the use of vibration reducing isolation.

Compressor Staging

The sequence of the compressor staging has been engineered to optimise the units ESEER performance.

R32 Optimised Evaporator

The R32 optimised evaporator allows for effective heat transfer between media. Each heat exchanger is insulated with closed cell polyurethane foam to Class 1 fire rating. A heater is fitted to each evaporator and will protect against freezing in ambient temperatures as low as -30°C, subject to the freeze protection policy. Internal water pipework is trace heated and connections for external trace heating are available.

Brazed plate evaporators use a pad heater and the shell and tube evaporators utilise immersion heaters.

Condenser Coils

Large surface area coils utilise micro channel coil technology and are ideally positioned to optimise airflow and heat transfer.

Evaporator Variable Water Flow

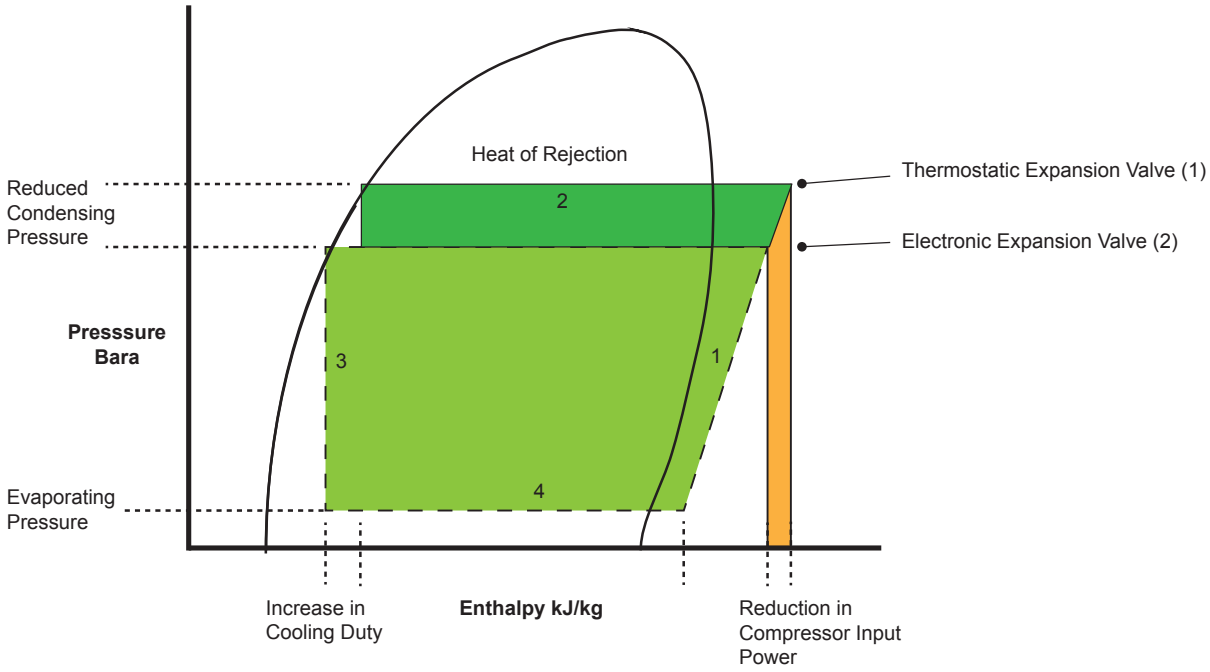
This range allows the flow to be modulated through the chiller within acceptable limits for the purposes of primary pump energy savings when aligned with an appropriate building management system. As cooling demand reduces the primary flow through the chiller/s can be reduced to maintain a fixed temperature differential across the evaporator. This flow can reduce until the minimum flow limit of the heat exchanger is reached. Below this flow velocity the efficiency of the heat exchanger and fouling factor will be compromised. When operating the system in this way a maximum rate of change of no more than 10% of the design flow per minute is acceptable. Varying the flow at higher rates than this may result in unstable unit operation and loss of cooling control. Particular attention must also be paid to the unloading and loading of chillers when previously isolated on the network to avoid large transient flows as a result of the system flow rate being 'shared' between active chillers.

Electronic Expansion Valves (EEV)

Electronic expansion valves differ to the normal thermostatic expansion valves in their ability to maintain control of the suction superheat at reduced head pressures. This can lead to significant energy savings particularly at reduced loading and low ambient temperatures.

Using an EEV allows for good refrigeration control whilst operating at part load and lower ambient conditions with a reduced condensing pressure. By fitting an EEV and adjusting the head pressure control setting an increase in the system EER (Energy Efficiency Ratio) can typically be seen at lower ambient conditions.

The Mollier diagram shown below helps to illustrate how this increase in efficiency is achieved.



Key

Cooling Cycle @ 22°C ambient with a conventional TEV fitted.

Cooling cycle @ 22°C ambient, demonstrating a typical EEV condensing temperature taking full advantage of lower ambient air temperatures (below 30°C).

Filter Driers
Maintainable filter driers are fitted with replaceable cores, to protect the system from moisture, acids and solid contaminants. They help to maintain system efficiency and prevent premature compressor failure.

HP / LP Transducers and Switches
HP / LP Transducers and switches are fitted to the unit to protect against high or low pressures.
High pressure switches are manual reset.

Dual Pressure Relief Valve
A 3-way dual shut-off valve that incorporates 2 relief valve assemblies per circuit. The valve allows the maintenance of individual pressure relief valves without the need for refrigerant evacuation. The pressure relief valve protects the evaporator.

Head Pressure Control
Electronic head pressure controllers are fitted which modulate the fan speed to maintain a constant condensing pressure, allowing the system to operate satisfactorily in ambient temperatures as low as -30°C.
Head pressure can be set, monitored and values viewed at the microprocessor display.

Refrigerant Leak Detection
A factory calibrated leak detection system shall be fitted as standard. If the unit includes a compressor enclosure, a refrigerant sensor shall be fitted within this enclosure and will raise an alarm on detection of refrigerant gas. The alarm state will activate an ATEX certified ventilation fan within the enclosure and the unit will immediately shut down, closing the EEV and actuating the isolation contactor to disable all non-essential electrical circuits. The unit will remain turned off (not pumped down) until it is manually reset; the unit can only be reset when the refrigerant level is below the trip setting.

Electrical

General Information

A weatherproof electrical power and controls panel is situated at the end of the unit and contains:

- Individual mains power isolation for each circuit's compressors.
- Separate electrical isolation for fans (shell and tube evaporator units only).
- Dedicated bus-bar chamber for connection of incoming 3 phase and earth mains power supply.
- Separate, fully accessible controls compartment, allowing adjustment of set points while the unit is operational.
- Circuit breaker for protection of all major unit components.
- Phase rotation relay incorporating phase loss protection.
- Electrical power and control panels wired to the latest European standards and codes of practice.

Mains power supply is three phase no neutral for standard units with a separate 230V 1ph 50Hz permanent supply, required for the controls and safety features; refer to interconnecting wiring for more information.

For units with dual power ATS option a three phase and neutral supply is required, powering the entire unit including controls; refer to interconnecting wiring for more information.

Electrical terminals for external evaporator pipe work trace heating (230V / 500 Watt) are provided, the external trace heating is fitted by others.

Control Panel Light

A control panel light can be fitted as an option to shell and tube evaporator units to enable maintenance to be carried out during poor light conditions.

Mains Cable Entry

Brazed plate evaporator units have a dedicated bus bar chamber, with entry from either left or right. Shell and tube evaporator units allow main cable entry from either side of the electrical control panel.

Maximum cable gland sizes

Single 1 x M75S
Twin 2 x M63S

	Features	DCCxxxDR	DCCxxxDX	DCFxxxDR	DCFxxxDX	DCCxxxTR	DCCxxxTX	DCFxxxTR	DCFxxxTX
Electrical	Phase Rotation Protection*	○	○	○	○	○	○	○	○
	Electronic Soft Start	○	○	○	○	○	○	○	○
	Power Monitoring	○	○	○	○	○	○	○	○
	Single Point Isolation	○	○	○	○	○	○	○	○
	Power Factor Correction*	○	○	○	○	○	○	○	○
	Maintenance Socket*	○	○	○	○	○	○	○	○
	Low Ambient Kit*	○	○	○	○	○	○	○	○

● Standard Features ○ Optional Features — Features Not Available

* Model dependant, please contact Airedale.

Phase Rotation Protection

A phase sequence relay shall be fitted for units containing 3 phase scroll compressors to prevent possible damage by running the compressor in the wrong direction.

Electronic Soft Start

The electronic soft start enables the chiller compressor motor to be ramped to speed with the minimum full load current. Further benefits include removal of nuisance tripping, supply voltage dips and motor overheating.

Power Monitoring

A power meter shall be fitted to the unit. Voltages, currents and power inputs can be monitored and recorded giving power usage of the chiller. Current transformers are fitted to the unit's incoming supply.

Single Point Isolation

Single point isolation shall be fitted as a standard feature. The feature is however available to be removed upon request, subject to your own 3 phase unit mains isolator.

Distribution System

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

Power Factor Correction

Compressor Power Factor Correction - Brazed Plate Evaporator Units

When applied to the motors of each compressor, the compressor power factor is controlled to a minimum operating value of 0.95 at the full operating capacity. This satisfies many supply authorities that may impose surcharges on equipment with power factor less than 0.95.

Automatic Power Factor Correction - Shell and Tube Evaporator Units

The automatic power factor correction shall be fitted to the Chillers electrical distribution system. This feature will provide automatic regulation of unit power factor, taking into account all AC inductive load types in the form of compressors, AC fans and AC pumps.

The power factor correction system consists of a PFC regulator and a number of dissimilar sized capacitors that are switched in by means of contactors. The regulator type used has 6 staged outputs that switch in a binary fashion resulting in a total number of 64 unique capacitor step values.

During operation the PFC regulator measures the reactive power drawn by the unit and then dependant on the instantaneous unit load and user configurable target PF value, automatically switches in the necessary capacitor stages to achieve the desired unit target PFC. Factory set to a 0.98PF.

⚠**IMPORTANT**	EC fans and Inverter loads cannot be corrected by the PFC capacitors. The overall system power factor may vary based on operating conditions.

Maintenance Socket

A 10 A single phase maintenance socket is available located within the control panel. This socket enables UK plugs to be connected.

Control Panel Low Ambient Protection

Supplementary heating can be offered to the control panel to ensure components such as LCD displays operate in low ambient conditions.

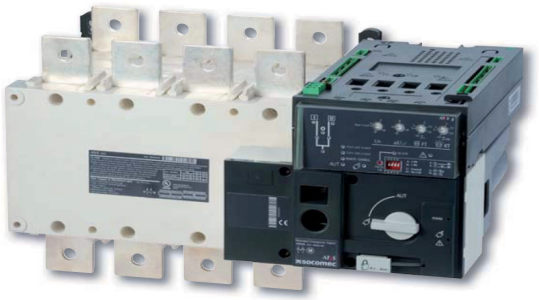
Ultracap Uninterrupted Power Supply

The Ultracap module is an external backup device for the EVD Evolution used to close the expansion valve. The module guarantees temporary power to the EVD Evolution in the event of power failures, for enough time to immediately close the connected electronic valve. It avoids the need to install a solenoid valve in the refrigerant circuit or use the battery backup module.

Ultracap storage capacitors (EDLC = Electric Double Layer Capacitor) are recharged independently by the module. Ultracap capacitors ensure reliability in terms of much longer component life than a module made with lead batteries; the life of the Ultracap module is at least 10 years. In addition, the special safety and environmental precautions required when using lead batteries are not necessary for the Ultracap module.

Dual Power - Automatic Transfer Switch (ATS)

The DeltaChill range has been designed with optional dual power supply capability, so that in the event of a power failure the supply switches from primary utility to an alternative power supply (such as second utility or generator) automatically. A dual power supply changeover switch shall be provided to enable continuous power to the DeltaChill in order to reduce unit downtime and therefore loss of cooling to a minimum. For the dual power supply feature to operate effectively, the two incoming power supplies must have the same voltage and frequency. During changeover of power there is an short interval with no power, an Ultracap module is employed to temporary power the controller through the power supply changeover, allowing for fast reinstatement of cooling following successful power supply changeover. Supply priority settings can be adjusted via unit's control terminal rail. Switch position status indication is available, via volt free contact, to give the end user visibility of which position the switch is currently in i.e. A or B.



Mechanical

	Features	DCCxxxDR	DCCxxxDX	DCFxxxDR	DCFxxxDX	DCCxxxTR	DCCxxxTX	DCFxxxTR	DCFxxxTX
General	No Plenum	●	●	●	●	●	●	●	●
	300mm Fan Discharge Plenum	○	○	○	○	○	○	○	○
	800mm Extended Height Fan Discharge Plenum	○	○	○	○	○	○	○	○
	Lifting Lugs/Eye Bolts	●	●	●	●	●	●	●	●
	Compressor Enclosure - Standard Insulation	○	●	○	●	○	●	○	●
	Compressor Enclosure - Profiled Insulation	○	○	○	○	○	○	○	○
	Compressor Acoustic Jackets*	○	○	○	○	—	—	—	—
	Anti-vibration Pad Mounts	○	○	○	○	○	○	○	○
	Anti-vibration Spring Mounts	○	○	○	○	○	○	○	○
	Rain hood*	○	○	○	○	○	○	○	○

● Standard Features ○ Optional Features — Features Not Available

* Model dependant, please contact Airedale.

Construction

The base is fabricated from galvanised steel to ensure a rigid, durable weatherproof construction. The superstructure is manufactured from galvanised sheet steel coated with epoxy baked powder paint to provide a durable and weatherproof finish. The standard unit colour is Light Grey (RAL 7035). Compressors and evaporators are mounted on a rigid galvanised heavy-duty sub frame and the fully weatherproof electrical panels are situated at one end of the unit.

Extended Discharge Air Plenum - Condenser Fan

Constructed from galvanised sheet steel coated with epoxy baked powder paint, this plenum directs discharge air vertically, thus limiting air re-circulation and provides a degree of acoustic reduction in the horizontal plane. For details please contact Airedale. Standard unit colour is Light Grey (RAL 7035). For further details refer to Dimensional Data.

Compressor Enclosure

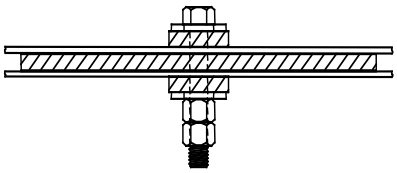
Optional compressor enclosure offers improved resistance to dust over the standard compressor's IP54 housing. The weatherproof compressor enclosure is recommended for installations with particularly adverse dusty environments. Compressor enclosures are fitted with forced ventilation as standard, which activates if a leak of refrigerant is detected.

Lifting Eye Bolts/Lifting Lugs

Lifting eye bolts/lifting lugs shall be fitted for use with either slings or shackles.

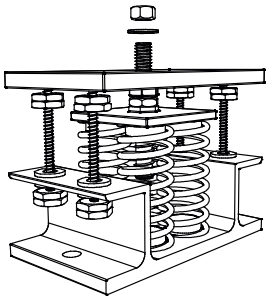
Anti Vibration Mounts - Pad Type

Pad vibration isolators can be supplied loose for on-site fitting to the base frame of each unit. The isolators are suitable for fitting to structural steelwork providing the surface is level and of sufficient strength where a moderate degree of vibration elimination is required.



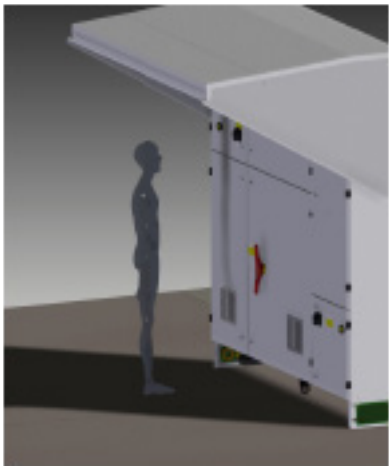
Anti Vibration Mounts - Spring Type

Specially selected spring vibration isolators shall be supplied loose for on-site fitting to the base frame of each unit. The isolators shall be suitable for fitting to structural steelwork providing the surface is level and of sufficient strength where a high level of vibration elimination is required.

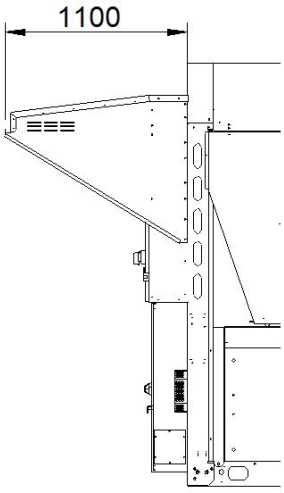


Weatherproof Rain Hood

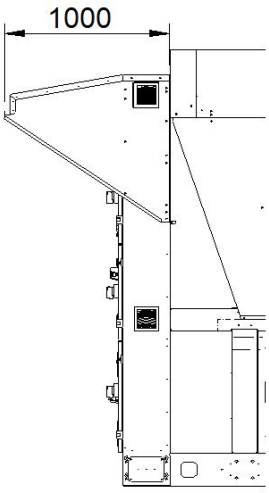
The waterproof rain hood provides shelter for those working at the control panel whatever the weather and reduces the risk of sensitive electrical components getting wet. The electrical panels are fully weatherproof when closed.



Brazed Plate Evaporator units



Shell and Tube Evaporator units



Controls

	Features	DCCxxxDR	DCCxxxDX	DCFxxxDR	DCFxxxDX	DCCxxxTR	DCCxxxTX	DCFxxxTR	DCFxxxTX
Controls	Helix™ Microprocessor Controller	●	●	●	●	●	●	●	●
	Optimised Head Pressure Control	●	●	●	●	●	●	●	●
	Emergency Stop	●	●	●	●	●	●	●	●
	Remote Setpoint Adjust	○	○	○	○	○	○	○	○
	Sequence Controller	○	○	○	○	○	○	○	○
	BMS Interface Card	○	○	○	○	○	○	○	○

● Standard Features ○ Optional Features — Features Not Available

Helix™ Microprocessor Controller

As standard, the Helix™ microprocessor controller can provide 2, 3 or 4 stages of capacity control, dependent upon model type.

Optionally, the controller is designed to provide capabilities for:

- Building Management Systems.
- Networking.
- Sequencing (Master/Slave and Run/Standby) to meet all your system requirements, please confirm at time of order. Please contact Airedale for further details.

Optimised Head Pressure Control

The fan's speed is modulated to maintain an optimised condensing pressure, ensuring the unit is always operating in the most efficient way and down to temperatures as low as -20°C. Head pressure can be monitored and values viewed at the microprocessor display.

Remote Setpoint Adjust

Allows the chilled water setpoint to be adjusted via an external 0-10V signal.

Sequence Controller

For the efficient temperature and capacity operation of multiple units on a single site, the sequence controller will permit interlinked operation of the complete system thereby providing optimum temperature control and minimum power consumption. Included within this package is a site visit by Airedale Controls Specialists to set up multiple unit sequence control.

BMS Interface Card

It is possible to integrate the unit control system into a BMS. Communication protocols must be specified at the time of order. Serial protocols options include Modbus RTU and BACnet MSTP. Ethernet IP protocols include BACnet/IP and Modbus TCP. Configuration for all protocols should occur as part of the installation.

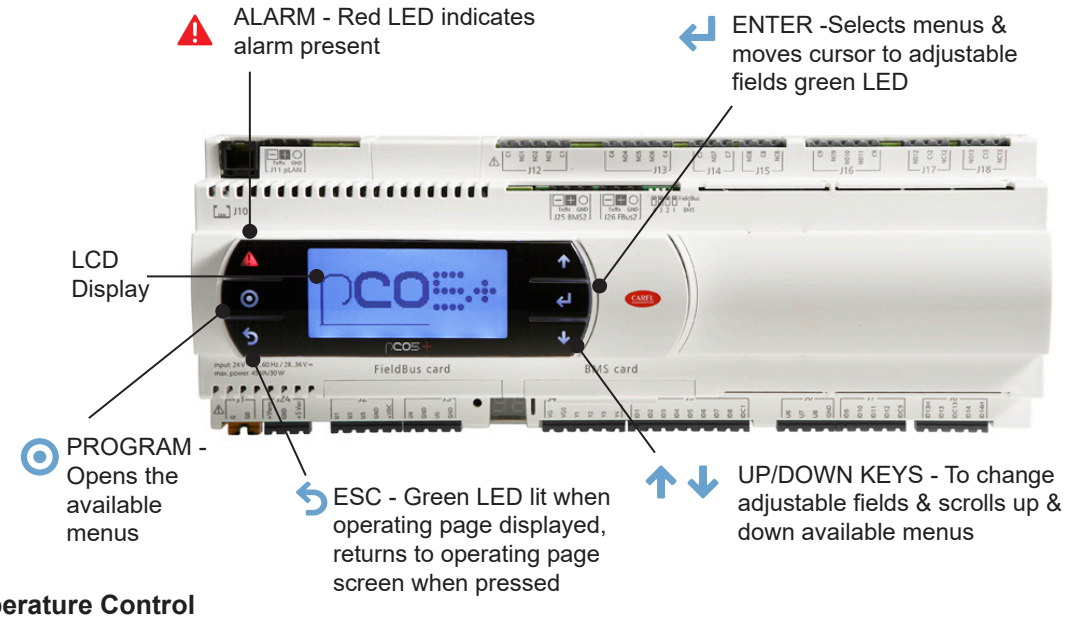
⚠CAUTION	When adding to an existing controls scheme, please consult Airedale Controls to ensure strategy compatibility.

Controls

General Description

The Helix™ microprocessor controller offers powerful analogue and digital control to meet a wide range of monitoring and control features including a real time clock, industry standard communication ports and network connections.

The controller's inbuilt display is used for viewing the unit operating status and making adjustments to control parameters by allowing the operator access to a series of display pages. It features a visual alarm and the facility to adjust and display control settings by a local operator for information and control.



Temperature Control

The microprocessor controller shall monitor the return and supply temperatures. The return temperature is used to generate cooling demand based on the supply temperature setpoint, and the specified unit TD. Using the return gives smoother control by leveraging the volume of water in the system as a temperature buffer (supply temp tends to jump up and down quickly when compressors are enabled or disabled). Further calculations are then made to determine the optimum compressors to be selected and their individual cooling demands. These calculations ensure the unit efficiency is maximised under all load conditions. As standard, the microprocessor controller can provide up to 4 cooling stages between between minimum unloading capacity and 100%, depending upon component selection and operating conditions. Refer to mechanical data tables for unit specific control ranges.

Monitoring

The microprocessor shall also monitor and display the following measured parameters:

- Supply water temperature.
- Return water temperature.
- Liquid pressure.
- Suction pressure.
- Evaporator differential water pressure.

Alarm Handling

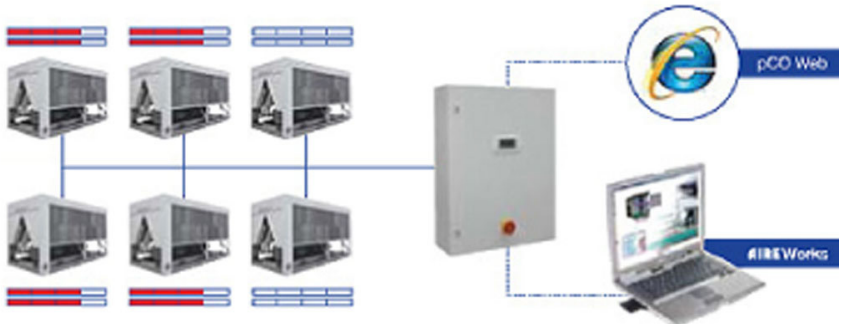
The controller shall log and allow viewing of the last 150 conditions recorded in descending chronological order through the keypad display.

The following conditions shall be detected, triggering a visual display:

- High compressor discharge temperature (per compressor).
- Low supply temperature.
- Phase rotation.
- Emergency stop.
- Evaporator flow failure.
- Low pressure safety switch.
- Low suction pressure (per compressor).
- High liquid pressure.
- Refrigerant leak detection.
- Compressor 1 contactor status.
- Compressor 2 contactor status. (dependant on model).
- Compressor 3 contactor status (dependant on model).
- Compressor 4 contactor status (dependant on model).
- Volt free contact non-critical alarm indication.
- Volt free contact critical alarm indication.

Building Management Systems (BMS)
BMS systems allow remote interrogation of parameters from within the unit, including but not limited to; probe readings, alarms and unit status.

Chiller Sequence Manager
For the efficient temperature and capacity operation of multiple units on a single site, the sequence manager will permit interlinked operation of the complete system thereby providing optimum temperature control and minimum power consumption. Up to 6 units can be sequenced. Included within this package is a site visit by an Airedale control specialist to set up multiple unit sequence control. The chiller sequence manager is supplied as a separate control panel to be mounted remotely in an indoor location, such as a plant room.



Unit Remote ON/OFF
Disables / Enables the unit remotely.

Compressor Anti Cycle Control
Automatic via the Microprocessor.

Compressor Load Limit
This feature limits the condensing pressure to 37 Barg by unloading the compressor.

Low Suction Trip
The relevant circuit turns off when the suction pressure gets too low, to prevent hitting the LP switch.

Supply Temperature Limiting
Based upon the freezing point of the water/ glycol solution, the unit operation is limited to a 3K differential. Cooling is reduced as the temperature approaches the freezing point (below this differential). The differential is the difference between actual temperature and the freezing point of the solution.

Pump(s) Remote ON/OFF
Disables / Enables the pump(s) remotely.

Evaporator Differential Pressure Sensor
Shall facilitate low flow limiting and pressure drop monitoring via the microprocessor.

Remote Setback Temperature Set-point Switch
A setback set-point for supply water temperature shall be selected to suit summer / winter conditions or night setback.

Remote Set-point Adjust
Shall allow the chilled water set-point to be adjusted via an external 0-10V signal.

Compressor Hours Run
Displays hours run of each compressor.

Optimised Head Pressure Setpoint Management
The combination of variable speed compressor, EC fan and interactive control logic allows fans to be slowed down to give the optimum head pressure setpoint in relation to combined power draw of compressor and fans. The fan speed shall automatically modulate to achieve the best energy balance for all normal operating conditions. Reducing the head pressure setpoint decreases the compressor input power at the expense of the fan input power.

⚠CAUTION	Password Protection The control system integrity shall be maintained by restricting access with a password PIN number.

⚠IMPORTANT	To change the PIN number; please contact Airedale at time of order with the preferred 4 digit number.

Condenser Fans

	Features	DCCxxxDR	DCCxxxDX	DCFxxxDR	DCFxxxDX	DCCxxxTR	DCCxxxTX	DCFxxxTR	DCFxxxTX
Airflow	EC Fans	●	●	●	●	●	●	●	●
	AC Fans	○	○	○	○	○	○	○	○
	High Airflow EC Fans	—	—	○	—	—	—	○	—

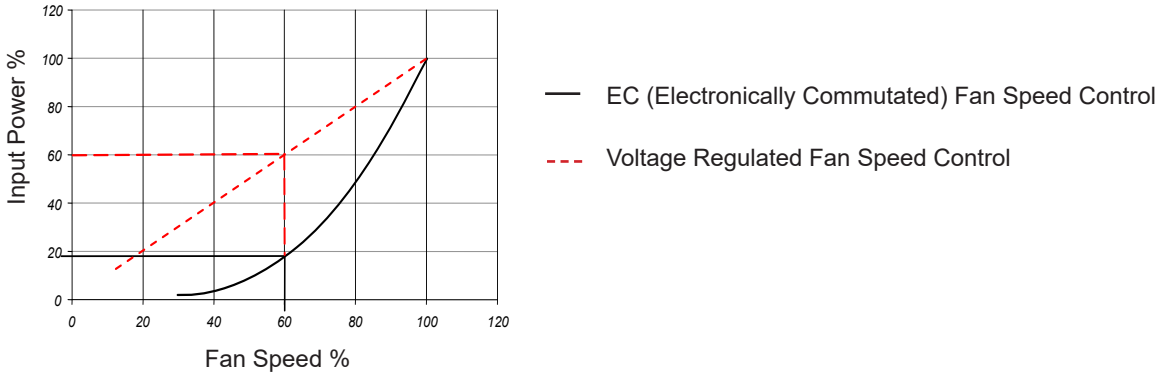
● Standard Features ○ Optional Features — Features Not Available

Energy saving Electronically Commutated (EC) Fan Motor

Each 800 mm diameter fan incorporates on board electronics with AC / DC conversion and inverter driven DC motor control to offer unparalleled high efficiency levels combined with smooth step-less speed control and quiet operation. Sickle blades reduce air turbulence to minimise sound levels and power consumption whilst maximising performance. The long bell mouth design provides improved aerodynamics, up to 10% more air movement, and an extended vertical throw of air to reduce the chance of air re-circulation. As standard the enclosure is complete with an integral finger proof grille. The fans offer maximum airflow performance while keeping sound levels to a minimum.

A mains EMC filter is fitted when the EC fan option is selected with the unit. The filter is designed for convenient mains connection within the bus bar chamber. The in-built EC fan control module allows for fan speed modulation from 15-100%; a standard AC fans modulating range is typically 40-100% of full fan speed.

The EC fan presents superior energy efficiency at full and reduced fan speed compared to the equivalent AC fan motor, offering efficiency savings anywhere between 30 to 100% compared with an AC fan. Fan speeds are factory set depending on sound level variant. Standard voltage regulated (VR) fan speed controllers offer a linear response whereas the EC fan is adjusted on demand via the unit microprocessor with precision, offering substantial energy savings. The following illustration shows a comparison of the typical power input required by each method.



Fan speed of 60%
Voltage regulated input power required 60%
EC input power required 18%

Condenser Fan and Motor - AC

Axial fan assemblies with finger proof grille incorporate external rotor AC motor technology and are capable of highly accurate discreet speed control. The fans discharge air vertically and offer maximum performance whilst keeping sound levels to a minimum.

High Airflow EC Fans

Additional free cooling is available when a high air volume EC Fan is selected. This option is only available with the FreeCool chiller.

Waterside

	Features	DCCxxxDR	DCCxxxDX	DCFxxxDR	DCFxxxDX	DCCxxxTR	DCCxxxTX	DCFxxxTR	DCFxxxTX
Waterside *	Water Filter	○	○	●	●	○	○	●	●
	Flow Proving Device	●	●	●	●	●	●	●	●
	RTPF Aluminium fin Water Coils	-	-	●	●	-	-	●	●
	RTPF Epoxy Coated Alumininium fin Water Coils	-	-	○	○	-	-	○	○
	Upgraded RTPF Aluminium fin Water Coils	-	-	○	○	-	-	○	○
	Upgraded RTPF Epoxy Coated Alumininium fin Water Coils	-	-	○	○	-	-	○	○
	Water Flow Switch (supplied loose)	○	○	○	○	○	○	○	○
	Pump Interlock	○	○	○	○	○	○	○	○
	Standard Flushing Bypass Kit	○	○	○	○	○	○	○	○
	Regulating Flushing Bypass kit	○	○	○	○	○	○	○	○
	Single Pump, A/C Motor, Standard Head	○	○	○	○	○	○	○	○
	Single Pump, A/C Motor, Larger Head	○	○	○	○	○	○	○	○
	Single Pump, Inverter, Standard Head	○	○	○	○	○	○	○	○
	Single Pump, Inverter, Larger Head	○	○	○	○	○	○	○	○
	Run & Standby, A/C Motor, Standard Head	○	○	○	○	○	○	○	○
	Run & Standby, A/C Motor, Larger Head	○	○	○	○	○	○	○	○
	Run & Standby, Inverter, Standard Head	○	○	○	○	○	○	○	○
	Run & Standby, Inverter, Larger Head	○	○	○	○	○	○	○	○
	Expansion Vessel	○	○	○	○	○	○	○	○
	Dosing Pot (15Litre)**	○	○	○	○	○	○	○	○

● Standard Features ○ Optional Features – Features Not Available

* Note that some units do not have all hydronic options due to space limitations, please contact Airedale for unit specific available options.

** Model dependant, please contact Airedale.

Water Filter

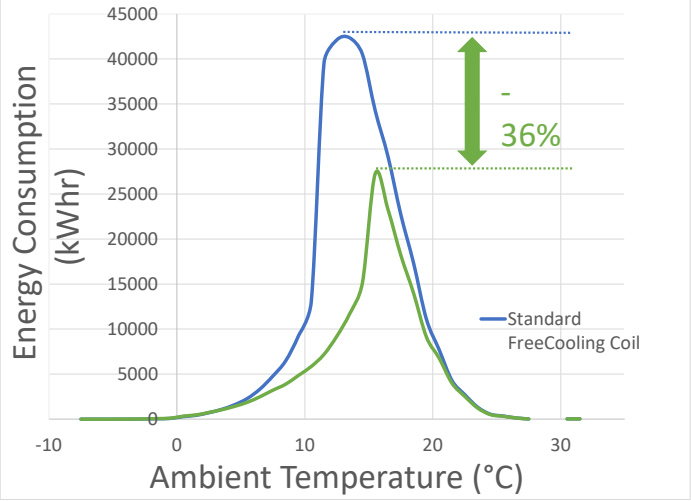
Water filters are fitted to protect the evaporator from clogging by sediment. This is a standard feature with the DeltaChill FreeCool. For standard Air Cooled DeltaChill the water filter is an optional extra.

Free Cooling Coil

A free cooling coil is manufactured from copper tube and aluminium fin and constructed in a “V” frame arrangement, allowing for efficient heat transfer from the ambient air temperature to the cooling process. Free cooling is initiated whenever the outdoor ambient temperature is 2°C less than the return water temperature. The “V” frame arrangement enables efficient concurrent cooling. The DeltaChill FreeCool chiller’s pipe work has been designed to optimise pressure drop so that it is more efficient in delivering a cooling solution.

Optimised Free Cooling

Additional free cooling is available with an upgraded freecooling coil and fan combination. Whereby the coil design is optimised for high ΔTs and high water temperature applications as is typical in data centres. This has been shown to provide up to 40% total annual energy savings and a 36% reduction in peak energy consumption when applied to a typical load profile compared to the standard freecooling unit design. Please contact Airedale for more details on this optional feature.



Flow Proving Device
An evaporator differential pressure sensor shall be fitted to ensure a correct unit water flow. This facilitates monitoring of low flow limits and pressure drop via the microprocessor.

Water Flow Switch
A water flow switch is fitted ensuring integrity of the cooling solution flow.

Pump Interlock
Provision for a pump interlock is available within the control panel.

⚠**IMPORTANT**	The water flow switch or pump interlock must be fitted in addition to the flow proving device to validate warranty.

Water Connections
Water inlet and outlet connections are of a grooved and clamped type construction. The unit is supplied with a counter pipe and coupling assembly for quick connection. Optional flanged connections available on request, please consult Airedale.

Standard Flushing Bypass Kit
Comprises:
- Shut off valves

Regulating Flushing Bypass Kit
Comprises:
- Shut off valves
- Double regulating valve

Factory fitted to protect the evaporator from clogging by sediment and to enable the water system to be purged before running.

Single Pump + Filter + Flushing Bypass
Comprises:
- Single pump with valve isolation
- Shut off valves
- Filters

Single Pump + Filter + Regulating Bypass
Comprises:
- Single pump with valve isolation
- Shut off valves
- Filters
- Double regulating valves

Run & Standby Pumps + Filter + Flushing Bypass
Comprises:
- Run and standby pumps with valve isolation
- Shut off valves
- Filters
- Non return valves

Run & Standby Pumps + Filter + Regulating Bypass
Comprises:
- Run and standby pumps with valve isolation
- Shut off valves
- Filters
- Double regulating valves
- Non return valves

Pump Options
The pumps can be offered with two options for external static pressure: standard or larger head pressure to overcome systems with a higher pressure drop. The factory fitted run/standby pumps have a shut of valve to the inlet and a non-return valve to the outlet, which enables one pump to be maintained without interrupting the chiller flow. Run/standby pumps are rotated automatically to ensure even pump usage and prolong component life. Electrical switchgear and isolating valves are supplied as standard.

Pump - AC Motor - Fixed Speed
A factory fitted in line single or run/standby pump package is available in a standard or larger external head; please specify at order. Flow can be proved via the microprocessor display. Factory fitted and supplied as standard complete with:
- Differential pressure sensor
- Isolating valves
- Inlet strainer
- Electrical switch gear

Pump - Inverter Driven - Variable Speed
A factory fitted in line single or run/standby pump is available in a standard or larger external head; please specify at order.

Flow is varied via an electronic flow meter, depending on system requirements. Adjustment and monitoring is via the microprocessor display. Factory fitted and supplied as standard complete with:
- Differential pressure sensor
- Isolating valves
- Inlet strainer
- Electrical switch gear
- Inverter panel with ventilation fan and panel heater (High/Low ambient operation)

Design Features & Information

Specific Heat Capacity (SHC)

% Ethylene Glycol Concentration		0%	10%	20%	30%	40%
Specific Heat Capacity (kJ/kgK)	(1)	4.190	4.115	3.901	3.686	3.474

% Propylene Glycol Concentration		0%	10%	20%	30%	40%
Specific Heat Capacity (kJ/kgK)	(1)	4.190	4.139	4.033	3.903	3.749

(1) Data quoted for water/glycol solutions at a nominal temperature of 10°C.

⚠CAUTION Only use the SHC data when calculating fluid volume. The figure for 0% should be used for 100% water.

Minimum System Water Volume Calculations

METHOD 1

(Preferred Method)

Where the system permanent heat load is known, the minimum water volume in litres $\mathbf{V_{min}}$ is:

$\mathbf{V_{min}}$ **=** Water Flow Rate (litres/min) x Minimum Compressor Run Time (min) x Chiller Loading Factor (CLF)

Where

$\mathbf{V_{min}}$ is the minimum water volume in litres

Minimum Compressor Run Time is 2 minutes

$$CLF = \frac{\text{Minimum Turndown x Cooling Duty x 1.2}}{\text{Permanent Heat Load}}$$

Example: 150kW Cooling Duty at 35°C Ambient and 7/12°C Water

Permanent Heat Load: 75kW

Minimum Turndown = 0.25 (4 Compressors = 25%)

$$\mathbf{V_{min}} = \frac{150 \times 60}{4.19 \times 5} \times 6 \times \frac{0.25 \times 150 \times 1.2}{75} = 1546.5 \text{ Litres}$$

METHOD 2

Where the system permanent heat load is unknown:

$$\mathbf{V_{min}} = \frac{\text{Water Flow Rate (litres/hour) x Min. Turndown x 1.2}}{\text{Maximum number of Compressor starts(per hour)}}$$

$$\mathbf{V_{min}} = \frac{\frac{\text{Cooling Duty x 3600}}{\text{Cp x } \Delta t} \times \text{Min Turndown} \times 1.2}{\text{Maximum number of Compressor starts(per hour)}}$$

Please refer to Mechanical Data for information for Minimum Turndown for each model.

Example: 150kW Cooling Duty at 35°C Ambient and 7/12°C Water

Minimum Turndown = 0.25 (25% : 4 Compressors)

$$\frac{\frac{150 \times 3600}{4.19 \times 5} \times 0.25 \times 1.2}{10} = 773.3 \text{ Litres}$$

Design Features & Information

Operating Limits

Standard Unit	
Minimum ambient air DB(1)	-20°C
Maximum ambient air DB at full load operation (3)	40°C
Minimum supply water temperature (2)	5°C
Maximum return water temperature (4)	28°C
Maximum supply water temperature (2)	20°C
Minimum / maximum ΔT	4K / 8K

(1) Temperatures lower than those stated can be obtained with the addition of glycol.
(2) Please refer to Airedale for conditions outside those quoted.
(3) Dependant on unit configuration performance may be reduced.
(4) With an 8K ΔT

ESEER Calculations

The quoted EER figures cover the performance of the unit ONLY at the standard rating conditions of 7/12°C water, 35°C ambient. The ESEER (European Seasonal Energy Efficiency Ratio) calculation method has been developed by Eurovent to give a single value that is a realistic indication of the efficiency of the chiller across the year round range of operation. The ESEER value is calculated from the unit's performance at 20, 25, 30 and 35°C ambient temperatures for 25, 50, 75 and 100% loading stages respectively, and with a fixed 7°C supply temperature.

The calculation below uses the Eurovent weighting coefficients and the part load EERs are determined in accordance with EN14825:2018 Clause 4.4.

$$ESEER = A \bullet EER_{100\%} + B \bullet EER_{75\%} + C \bullet EER_{50\%} + D \bullet EER_{25\%}$$

A, B, C and D are weighting factors 0.03, 0.33, 0.41 and 0.23.

	A	B	C	D
Temperature	35°C	30°C	25°C	20°C
Capacity Requirement	100%	73.7%	47.4%	21.1%
Weighting (Eurovent)	0.03	0.33	0.41	0.23

⚠CAUTION The waterside temperature should not go above the TS of +40°C. The PRV will release at water temperatures >= 42.2°C.

Design Features and Information

Sound Data

Measurement of Sound Data

All sound data quoted has been measured in the third-octave band limited values, using a Real Time Analyser calibrated sound pressure meter in accordance with BS EN ISO9614:2009. **The Global sound data quoted is valid for noise emitted in the horizontal plane in all directions.**

All Sound Power Levels quoted are calculated from measured sound pressure according to BS EN ISO9614:2009.

Sound Pressure Levels are calculated from sound power using the expanded parallel piped method according to BS EN ISO9614:2009.

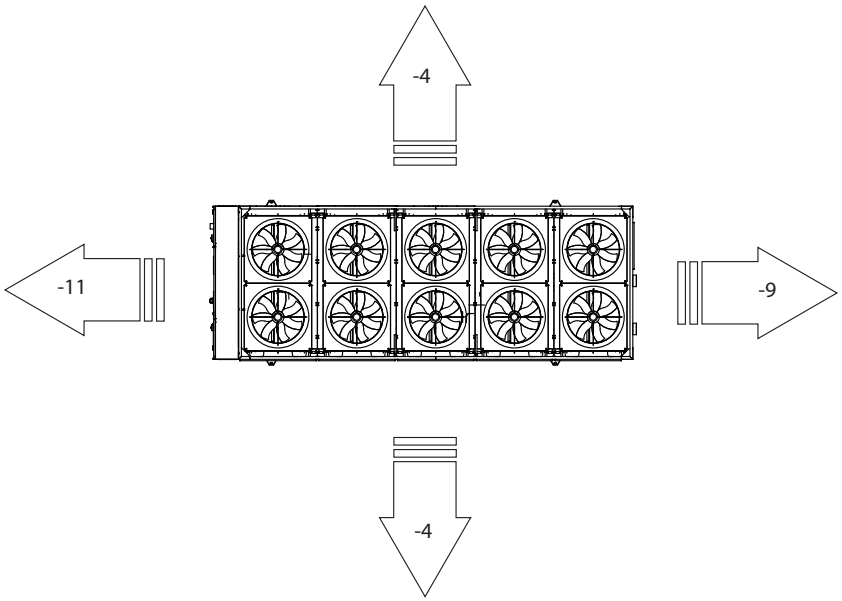
Resultant performance figures obtained from test will be proven to not differ from the claimed figures by more than the allowable deviations specified in table 7 of section VII of Eurovent RS 6/C/003-2016 (A-weighted sound power; +3dBA).

Sound Directivity

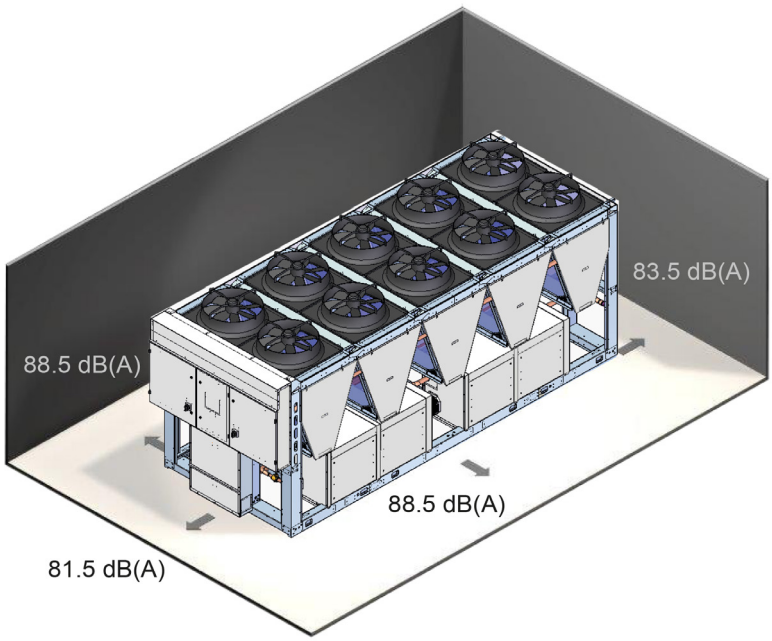
The global sound measurements quoted in the following tables **do not** incorporate any directivity or denote any sound level heard at any given position surrounding the chiller, rather they represent the total sound level radiating from the chiller in **all directions in the horizontal plane** from source.

Using the adjustment factors from the map below, specific directional sound power levels can be derived from the global sound power data.

Base Correction Values - Global dB



EXAMPLE (dB(A)): 330 kW Output - Regular Model - DCC033DR-10KLR0 - Overall Sound Power of 92.5 dB(A) =



Design Features & Information

Pressure Relief Valve Discharge Piping

Considerations must be made when designing pipework for PRV venting. This must be designed in accordance to EN378-3 Section 5.8 Piping and ducting.

- Caution must be taken to ensure excessive pressure drop in the pipework is avoided.
- All piping and ventilation ducting which passes through walls, ceilings and floors of machinery rooms, shall be sealed where it passes through the walls or floors. The sealing shall have fire resisting properties at least equivalent to the wall, ceiling or floor.
- Discharge pipes from relief valves, safety valves and fusible plugs may diffuse the charge into the air by adequate means but away from any air intake to the building or discharge into an adequate quantity of a suitable absorbing material.
- Compression fittings must not be used for the discharge piping.

Technical Data
DCC Regular Quiet

Mechanical Data	Notes	Units	DCC021DR-04JJK0	DCC026DR-04KKL0	DCC032DR-06KLR0	DCC036DR-06KRR0	DCC043DR-08KSS0	DCC045DR-08KSQ0	DCC011DR-04JBC0	DCC016DR-04JGG0	DCC021DR-06JJK0	DCC027DR-06KKL0	DCC033DR-08KLR0
Capacity													
Number of Refrigeration Circuits			2	2	2	2	2	2	2	2	2	2	2
Cooling Duty - EC Fans	(1)	kW	204.5	259.1	322.4	355.7	432.3	445.9	106.7	153.4	209.6	267.4	328.2
Nominal Input - Mechanical		kW	66.5	87.5	103.7	117.6	138.1	143.2	29.9	48.9	62.3	81.6	98.9
EER	(2)		3.08	2.96	3.11	3.02	3.13	3.12	3.57	3.13	3.37	3.28	3.32
ESEER (Gross)			4.63	4.40	4.68	4.73	4.85	4.78	4.85	4.64	4.97	4.77	4.93
ESEER (Net)			4.50	4.26	4.52	4.54	4.65	4.57	4.77	4.53	4.83	4.61	4.75
Nominal Output - Free Cooling		kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)	°C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	25-55-75-100	25-55-75-100	25-45-65-85-100	20-40-55-70-85-100	20-40-55-70-85-100	20-45-60-85-100	45-100	25-55-75-100	25-55-75-100	25-55-75-100	25-45-65-85-100
Minimum Turndown Ratio			0.23	0.25	0.25	0.19	0.19	0.18	0.43	0.27	0.23	0.25	0.24
Dimensions (HxW)		mm	2612 x 2200										
Length		mm	2554	2554	3690	3690	4820	4820	2554	2554	3690	3690	4820
Machine Weight	(3)	kg	1805	1905	2495	2640	3105	3105	1510	1650	2230	2335	2905
Operating Weight		kg	1840	1965	2575	2725	3210	3210	1535	1680	2275	2410	2995
Evaporator			Brazed Plate										
Water Volume (Total Internal)		l	17.8	28.8	33.3	37.8	45.9	45.9	9.1	12.5	17.8	28.8	33.3
Maximum Waterflow		l/s	17.7	21.6	27.3	29.9	31.9	31.4	9.4	13.4	18.4	22.9	28.1
Minimum Waterflow		l/s	4.9	5.3	6.0	6.5	7.2	7.2	3.2	4.0	4.9	5.3	6.0
Condenser													
Face Area (Total)		m²	9.5	9.5	14.3	14.3	19.0	19.0	9.5	9.5	14.3	14.3	19.0
Nominal Airflow		m³/s	25.9	25.9	38.8	38.8	51.8	51.8	25.9	25.9	38.8	38.8	51.8
Condenser Fan & Motor													
Quantity			4	4	6	6	8	8	4	4	6	6	8
Diameter		mm	800	800	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Compressor			Tandem + Tandem	Tandem + Tandem	Tandem + Trio	Trio + Trio	Trio + Trio	Trio + Tandem	Single + Single	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Trio
Quantity of Compressors			4	4	5	6	6	5	2	4	4	4	5
Oil Charge Volume (Total)		l	2 x 3.6 + 2 x 6.1	2 x 6.1 + 2 x 6.1	2 x 6.1 + 3 x 6.1	3 x 6.1 + 3 x 6.1	3 x 6.1 + 3 x 6.1	3 x 6.1 + 2 x 6.1	1 x 3.6 + 1 x 6.1	2 x 3.3 + 2 x 3.3	2 x 3.6 + 2 x 6.1	2 x 6.1 + 2 x 6.1	2 x 6.1 + 3 x 6.1
Oil Type			Polyol Ester										
Refrigeration													
Refrigerant Precharged / GWP			R32 / 675										
Charge (Total)		kg	15 + 16	18 + 19	26 + 27	27 + 27	34 + 34	34 + 35	13 + 14	14 + 14	20 + 21	24 + 24	30 + 31
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	29	29	29	29	29	29	29	29	29	29	29
Connections													
Water Inlet / Outlet - Unit			DN80	DN100	DN100	DN100	DN100	DN100	DN80	DN80	DN80	DN100	DN100
Water System													
Minimum System Water Volume	(4)	l	814.0	1111.0	1356.8	1147.4	1391.3	1391.2	780.8	713.8	825.4	1133.4	1371.4
Nominal Water Flow		l/s	9.7	12.3	15.3	16.9	20.6	21.2	5.1	7.3	10.0	12.7	15.6
Pressure drop		kPa	18.2	24.8	30.9	31.0	34.7	36.8	12.4	15.6	19.4	26.7	31.5
Electrical Data													
Nominal Run Amps	(6)	A	135.0	162.8	204.3	223.1	273.9	282.2	76.1	107.8	143.6	171.4	212.9
Maximum Start Amps		A	293	354	395	381	465	561	234	243	302	362	404
Recommended Mains Fuse Size		A	160	200	250	250	315	315	100	125	160	200	250
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	80	100	100	100	100	100	80	80	80	100	100
Condenser Fan - Per Fan (EC)													
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56		2.56	2.56	2.56	2.56
Compressor - Per Compressor													
Nominal Run Amps	(7)	A	26.0 / 32.9	32.9 / 39.9	39.9 / 32.9	32.9 / 32.9	39.9 / 39.9	39.9 / 64.0	26.0 / 32.9	22.6 / 22.6	26.0 / 32.9	32.9 / 39.9	39.9 / 32.9
Motor Rating		kW	14.7 / 19.8	19.8 / 23.8	23.8 / 19.8	19.8 / 19.8	23.8 / 23.8	23.8 / 37.7	14.7 / 19.8	13.4 / 13.4	14.7 / 19.8	19.8 / 23.8	23.8 / 19.8
Start Amps	(8)	A	197 / 191	191 / 231	231 / 191	191 / 191	231 / 231	231 / 343	197 / 191	158 / 158	197 / 191	191 / 231	231 / 191

(1) Based on AC units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water. All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design flow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data
DCC Regular Quiet

Mechanical Data	Notes	Units	DCC036DR-08KRR0	DCC044DR-10KSS0	DCC045DR-10KSQ0	DCC011DR-06JBC0	DCC016DR-06JGG0	DCC022DR-08JJK0	DCC027DR-08KKL0	DCC033DR-10KLR0	DCC037DR-10KRR0	DCC044DR-12KSS0	DCC046DR-12KSQ0
Capacity													
Number of Refrigeration Circuits			2	2	2	2	2	2	2	2	2	2	2
Cooling Duty - EC Fans	(1)	kW	362.3	438.4	452.2	108.4	156.5	212.5	272.0	332.1	366.9	442.9	456.8
Nominal Input - Mechanical		kW	111.9	133.1	137.9	28.6	46.1	59.9	78.2	95.8	108.3	129.5	134.1
EER	(2)		3.24	3.29	3.28	3.79	3.39	3.54	3.48	3.47	3.39	3.42	3.41
ESEER (Gross)			4.97	5.03	4.97	5.17	4.95	5.18	5.00	5.10	5.15	5.17	5.11
ESEER (Net)			4.76	4.81	4.74	5.08	4.83	5.01	4.82	4.90	4.92	4.93	4.87
Nominal Output - Free Cooling		kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)	°C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	20-35-55-70-85-100	20-35-55-70-85-100	20-45-60-85-100	45-100	25-55-75-100	25-55-75-100	25-55-75-100	25-45-65-85-100	20-35-55-70-85-100	20-35-55-70-85-100	20-45-60-85-100
Minimum Turndown Ratio			0.19	0.19	0.18	0.43	0.27	0.23	0.25	0.24	0.19	0.19	0.18
Dimensions (HxW)		mm	2612 x 2200										
Length		mm	4820	5956	5956	3690	3690	4820	4820	5956	5956	7090	7090
Machine Weight	(3)	kg	3050	3500	3505	1935	2075	2635	2745	3300	3445	3880	3885
Operating Weight		kg	3145	3620	3625	1970	2115	2685	2830	3405	3555	4015	4020
Evaporator			Brazed Plate										
Water Volume (Total Internal)		l	37.8	45.9	45.9	9.1	12.5	17.8	28.8	33.3	37.8	45.9	45.9
Maximum Waterflow		l/s	31.0	31.1	31.0	9.6	13.8	18.7	23.3	28.5	31.5	30.8	30.7
Minimum Waterflow		l/s	6.5	7.2	7.2	3.2	4.0	4.9	5.3	6.0	6.5	7.2	7.2
Condenser													
Face Area (Total)		m²	19.0	23.8	23.8	14.3	14.3	19.0	19.0	23.8	23.8	28.5	28.5
Nominal Airflow		m³/s	51.8	64.7	64.7	38.8	38.8	51.8	51.8	64.7	64.7	77.7	77.7
Condenser Fan & Motor													
Quantity			8	10	10	6	6	8	8	10	10	12	12
Diameter		mm	800	800	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Compressor			Trio + Trio	Trio + Trio	Trio + Tandem	Single + Single	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Trio	Trio + Trio	Trio + Trio	Trio + Tandem
Quantity of Compressors			6	6	5	2	4	4	4	5	6	6	5
Oil Charge Volume (Total)		l	3 x 6.1 + 3 x 6.1	3 x 6.1 + 3 x 6.1	3 x 6.1 + 2 x 6.1	1 x 3.6 + 1 x 6.1	2 x 3.3 + 2 x 3.3	2 x 3.6 + 2 x 6.1	2 x 6.1 + 2 x 6.1	2 x 6.1 + 3 x 6.1	3 x 6.1 + 3 x 6.1	3 x 6.1 + 3 x 6.1	3 x 6.1 + 2 x 6.1
Oil Type			Polyol Ester										
Refrigeration													
Refrigerant Precharged / GWP			R32 / 675										
Charge (Total)		kg	32 + 32	39 + 39	39 + 40	19 + 19	19 + 19	26 + 27	29 + 30	36 + 37	37 + 38	44 + 45	44 + 46
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	29	29	29	29	29	29	29	29	29	29	29
Connections													
Water Inlet / Outlet - Unit			DN100	DN100	DN100	DN80	DN80	DN80	DN100	DN100	DN100	DN100	DN100
Water System													
Minimum System Water Volume	(4)	l	1158.6	1400.6	1400.6	792.3	723.5	832.5	1145.5	1382.2	1166.8	1408.6	1408.6
Nominal Water Flow		l/s	17.2	20.8	21.5	5.2	7.4	10.1	12.9	15.8	17.4	21.0	21.7
Pressure drop		kPa	32.2	35.3	37.4	12.9	16.4	19.9	27.6	32.6	32.8	37.1	39.3
Electrical Data													
Nominal Run Amps	(6)	A	231.7	282.5	290.8	84.7	116.4	152.2	180.0	221.5	240.3	291.1	299.4
Maximum Start Amps		A	390	474	570	243	252	310	371	413	398	482	578
Recommended Mains Fuse Size		A	250	315	315	100	125	200	200	250	315	315	355
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	100	100	100	80	80	80	100	100	100	100	100
Condenser Fan - Per Fan (EC)													
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor													
Nominal Run Amps	(7)	A	32.9 / 32.9	39.9 / 39.9	39.9 / 64.0	26.0 / 32.9	22.6 / 22.6	26.0 / 32.9	32.9 / 39.9	39.9 / 32.9	32.9 / 32.9	39.9 / 39.9	39.9 / 64.0
Motor Rating		kW	19.8 / 19.8	23.8 / 23.8	23.8 / 37.7	14.7 / 19.8	13.4 / 13.4	14.7 / 19.8	19.8 / 23.8	23.8 / 19.8	19.8 / 19.8	23.8 / 23.8	23.8 / 37.7
Start Amps	(8)	A	191 / 191	231 / 231	231 / 343	197 / 191	158 / 158	197 / 191	191 / 231	231 / 191	191 / 191	231 /231	231 / 343

(1) Based on AC units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water. All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design flow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data

DCC Regular Quiet

Mechanical Data	Notes	Units	DCC043DR-08LXX0	DCC048DR-09NXY0	DCC056DR-10NYY0	DCC057DR-10NYV0	DCC062TR-11PNXX	DCC063TR-12PXXX	DCC068TR-13PXXY	DCC076TR-14SXYY	DCC083TR-15SYYY	DCC086TR-15SYVV	DCC088TR-15SVVV
Capacity													
Number of Refrigeration Circuits			2	2	2	2	3	3	3	3	3	3	3
Cooling Duty - EC Fans	(1)	kW	427.8	484.7	557.6	575.7	618.8	626.4	685.0	756.9	834.4	862.3	881.2
Nominal Input - Mechanical		kW	137.2	158.7	181.6	192.5	205.8	204.7	226.3	248.9	272.3	293.6	304.6
EER	(2)		3.12	3.05	3.07	2.99	3.01	3.06	3.03	3.04	3.06	2.94	2.89
ESEER (Gross)			4.64	4.54	4.53	4.47	4.34	4.54	4.50	4.51	4.52	4.40	4.33
ESEER (Net)			4.39	4.39	4.35	4.26	4.23	4.43	4.38	4.38	4.36	4.29	4.22
Nominal Output - Free Cooling		kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)	°C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	15-35-50-70-85-100	15-35-50-70-80-100	15-35-50-70-85-100	15-35-50-70-85-100	15-30-40-55-65-80-90-100	10-25-35-45-55-70-80-90-100	10-20-35-45-55-70-80-85-100	10-20-35-45-55-70-75-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100
Minimum Turndown Ratio			0.17	0.15	0.17	0.17	0.17	0.12	0.11	0.10	0.12	0.11	0.12
Dimensions (HxW)		mm	2682 x 2200										
Length		mm	4846	5978	5978	5978	7110	7110	8242	8242	9374	9374	9374
Machine Weight	(3)	kg	3845	4370	4450	4455	5345	5560	6030	6260	6630	6620	6620
Operating Weight		kg	3915	4475	4555	4560	5510	5725	6270	6505	6930	6925	6920
Evaporator			Shell and Tube										
Water Volume (Total Internal)		l	127.8	159.8	154.9	149.9	217.5	132.1	132.1	383.9	370.1	370.1	370.1
Maximum Waterflow		l/s	29.0	38.3	38.3	38.3	42.9	57.2	57.2	56.3	56.3	74.9	74.9
Minimum Waterflow		l/s	6.8	8.9	9.2	9.3	11.1	14.8	14.8	13.9	14.1	18.8	18.8
Condenser													
Face Area (Total)		m²	19.0	21.4	23.8	23.8	26.1	28.5	30.9	33.3	35.6	35.6	35.6
Nominal Airflow		m³/s	51.8	58.2	64.7	64.7	71.2	77.7	84.1	90.6	97.1	97.1	97.1
Condenser Fan & Motor													
Quantity			8	9	10	10	11	12	13	14	15	15	15
Diameter		mm	800	800	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Compressor			Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Tandem + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio
Quantity of Compressors			6	6	6	6	8	9	9	9	9	9	9
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	2 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3
Oil Type			Polyvinyl Ether										
Refrigeration													
Refrigerant Precharged / GWP			R32 / 675										
Charge (Total)		kg	23 + 25	24 + 30	29 + 30	30 + 31	20 + 25 + 25	23 + 25 + 25	23 + 25 + 30	25 + 31 + 32	31 + 33 + 34	31 + 33 + 34	31 + 33 + 34
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
Connections													
Water Inlet / Outlet - Unit			DN125	DN125	DN125	DN125	DN125	DN125	DN150	DN150	DN150	DN150	DN150
Water System													
Minimum System Water Volume	(4)	l	1267.0	1256.6	1650.5	1646.6	1748.2	1235.5	1235.6	1255.7	1646.5	1625.1	1739.6
Nominal Water Flow		l/s	20.3	23.0	26.5	27.3	29.4	29.8	32.5	36.0	39.6	40.9	41.8
Pressure drop		kPa	49.3	27.3	37.4	45.9	20.3	19.2	21.4	23.5	32.4	21.2	21.7
Electrical Data													
Nominal Run Amps	(6)	A	275.3	318.1	361.0	380.7	407.2	413.0	455.7	498.6	541.4	581.0	601.2
Maximum Start Amps		A	445	590	633	646	673	582	728	771	814	847	867
Recommended Mains Fuse Size		A	315	355	400	400	450	450	500	560	560	630	630
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	170.0	170.0	170.0	170.0	170.0	170.0	170.0	250.0	250.0	250.0	250.0
Condenser Fan - Per Fan (EC)													
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor													
Nominal Run Amps	(7)	A	40.7 / 40.7	40.7 / 53.7	53.7 / 53.7	53.7 / 60.4	60.4 / 40.7 / 40.7	40.7 / 40.7 / 40.7	40.7 / 40.7 / 53.7	40.7 / 53.7 / 53.7	53.7 / 53.7 / 53.7	53.7 / 60.4 / 60.4	60.4 / 60.4 / 60.4
Motor Rating		kW	25.9 / 25.9	25.9 / 33.6	33.6 / 33.6	33.6 / 36.5	36.5 / 25.9 / 25.9	25.9 / 25.9 / 25.9	25.9 / 25.9 / 33.6	25.9 / 33.6 / 33.6	33.6 / 33.6 / 33.6	33.6 / 36.5 / 36.5	36.5 / 36.5 / 36.5
Start Amps	(8)	A	210 / 210	210 / 326	326 / 326	326 / 326	326 / 210 / 210	210 / 210 / 210	210 / 210 / 326	210 / 326 / 326	326 / 326 / 326	326 / 326 / 326	326 / 326 / 326

(1) Based on AC units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water. All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design flow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data

DCC Regular Quiet

Mechanical Data	Notes	Units	DCC092TR-15SVVW	DCC095TR-15SVWW	DCC098TR-15SWWW	DCC043DR-10LXX0	DCC049DR-11NXY0	DCC056DR-12NYY0	DCC058DR-12NYV0	DCC063TR-14PNXX	DCC063TR-15PXXX	DCC069TR-16PXXY	DCC076TR-17SXYY
Capacity													
Number of Refrigeration Circuits			3	3	3	2	2	2	2	3	3	3	3
Cooling Duty - EC Fans	(1)	kW	923.0	951.3	979.7	433.6	490.6	564.1	582.5	630.4	634.7	693.0	765.5
Nominal Input - Mechanical		kW	318.8	332.1	345.4	132.0	153.3	175.7	186.1	197.1	197.0	218.6	240.8
EER	(2)		2.89	2.86	2.84	3.29	3.20	3.21	3.13	3.20	3.22	3.17	3.18
ESEER (Gross)			4.37	4.35	4.31	4.80	4.68	4.66	4.60	4.55	4.69	4.64	4.64
ESEER (Net)			4.25	4.23	4.19	4.53	4.53	4.46	4.38	4.43	4.57	4.51	4.51
Nominal Output - Free Cooling		kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)	°C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	10-20-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	15-35-50-70-85-100	15-35-50-70-80-100	15-35-50-70-85-100	15-35-50-70-85-100	15-30-40-55-65-80-90-100	10-25-35-45-55-70-80-90-100	10-20-35-45-55-70-75-85-100	10-20-35-45-55-70-75-90-100
Minimum Turndown Ratio			0.11	0.11	0.12	0.17	0.15	0.17	0.17	0.16	0.11	0.11	0.10
Dimensions (HxW)		mm	2682 x 2200										
Length		mm	9374	9374	9374	5978	7110	7110	7110	8242	9374	9374	10506
Machine Weight	(3)	kg	6695	6750	6805	4325	4895	4975	4980	5865	6295	6465	6985
Operating Weight		kg	6995	7050	7105	4430	5060	5145	5150	6065	6500	6755	7280
Evaporator			Shell and Tube										
Water Volume (Total Internal)		l	357.0	357.0	357.0	127.8	159.8	154.9	149.9	217.5	132.1	132.1	383.9
Maximum Waterflow		l/s	74.9	74.9	74.9	29.0	38.3	38.3	38.3	42.9	57.2	57.2	56.3
Minimum Waterflow		l/s	19.0	19.0	19.0	6.8	8.9	9.2	9.3	11.1	14.8	14.8	13.9
Condenser													
Face Area (Total)		m²	35.6	35.6	35.6	23.8	26.1	28.5	28.5	33.3	35.6	38.0	40.4
Nominal Airflow		m³/s	97.1	97.1	97.1	64.7	71.2	77.7	77.7	90.6	97.1	103.5	110.0
Condenser Fan & Motor													
Quantity			15	15	15	10	11	12	12	14	15	16	17
Diameter		mm	800	800	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Compressor			Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Tandem + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio
Quantity of Compressors			9	9	9	6	6	6	6	8	9	9	9
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	2 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3
Oil Type			Polyvinyl Ether										
Refrigeration													
Refrigerant Precharged / GWP			R32 / 675										
Charge (Total)		kg	32 + 34 + 35	32 + 34 + 35	32 + 34 + 35	27 + 27	28 + 32	32 + 33	33 + 34	22 + 28 + 28	27 + 28 + 28	27 + 28 + 32	28 + 34 + 35
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
Connections													
Water Inlet / Outlet - Unit			DN150	DN150	DN150	DN125	DN125	DN125	DN125	DN125	DN125	DN150	DN150
Water System													
Minimum System Water Volume	(4)	l	1768.8	1768.6	1958.2	1276.5	1266.0	1660.8	1658.1	1774.0	1244.5	1244.5	1264.9
Nominal Water Flow		l/s	43.8	45.1	46.5	20.6	23.3	26.8	27.7	29.9	30.1	32.9	36.4
Pressure drop		kPa	23.9	25.2	26.5	50.8	28.5	39.1	47.9	21.6	20.3	22.3	24.5
Electrical Data													
Nominal Run Amps	(6)	A	621.9	642.7	663.5	283.1	325.9	368.7	388.4	418.8	424.6	467.4	510.2
Maximum Start Amps		A	881	901	891	452	598	641	654	684	594	740	783
Recommended Mains Fuse Size		A	670	670	710	315	355	400	450	450	450	500	560
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	250.0	250.0	250.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	250.0
Condenser Fan - Per Fan (EC)													
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor													
Nominal Run Amps	(7)	A	60.4 / 60.4 / 67.3	60.4 / 67.3 / 67.3	67.3 / 67.3 / 67.3	40.7 / 40.7	40.7 / 53.7	53.7 / 53.7	53.7 / 60.4	60.4 / 40.7 / 40.7	40.7 / 40.7 / 40.7	40.7 / 40.7 / 53.7	40.7 / 53.7 / 53.7
Motor Rating		kW	36.5 / 36.5 / 41.3	36.5 / 41.3 / 41.3	41.3 / 41.3 / 41.3	25.9 / 25.9	25.9 / 33.6	33.6 / 33.6	33.6 / 36.5	36.5 / 25.9 / 25.9	25.9 / 25.9 / 25.9	25.9 / 25.9 / 33.6	25.9 / 33.6 / 33.6
Start Amps	(8)	A	326 / 326 / 295	326 / 295 / 295	295 / 295 / 295	210 / 210	210 / 326	326 / 326	326 / 326	326 / 210 / 210	210 / 210 / 210	210 / 210 / 326	210 / 326 / 326

(1) Based on AC units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water. All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design flow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data
DCC Regular Quiet

Mechanical Data	Notes	Units	DCC084TR-18SYYY	DCC087TR-18SYVV	DCC089TR-18SVVV	DCC094TR-18SVVW	DCC097TR-18SVWW	DCC100TR-18SWWW	DCC044DR-12LXX0	DCC049DR-13NXY0	DCC057DR-14NYY0	DCC059DR-14NYV0	DCC064TR-17PNXX
Capacity													
Number of Refrigeration Circuits			3	3	3	3	3	3	2	2	2	2	3
Cooling Duty - EC Fans	(1)	kW	844.2	872.2	891.3	937.0	968.4	999.9	438.1	495.4	569.2	587.9	637.2
Nominal Input - Mechanical		kW	263.5	283.6	294.0	308.4	321.7	335.0	128.2	149.2	171.4	181.4	191.1
EER	(2)		3.20	3.08	3.03	3.04	3.01	2.98	3.42	3.32	3.32	3.24	3.33
ESEER (Gross)			4.65	4.53	4.46	4.51	4.49	4.45	4.92	4.80	4.76	4.71	4.69
ESEER (Net)			4.48	4.41	4.35	4.38	4.36	4.32	4.64	4.63	4.55	4.47	4.57
Nominal Output - Free Cooling		kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)	°C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-20-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	15-35-50-65-85-100	15-35-50-65-80-100	15-35-50-65-85-100	15-35-50-65-85-100	15-30-40-55-65-80-90-100
Minimum Turndown Ratio			0.11	0.11	0.12	0.11	0.11	0.12	0.17	0.15	0.17	0.17	0.16
Dimensions (HxW)		mm	2682 x 2200										
Length		mm	10506	10506	10506	10506	10506	10506	7110	8242	8242	8242	10506
Machine Weight	(3)	kg	7085	7075	7075	7150	7205	7260	4850	5355	5440	5445	6630
Operating Weight		kg	7375	7365	7365	7440	7495	7550	5015	5560	5645	5650	6920
Evaporator			Shell and Tube										
Water Volume (Total Internal)		l	370.1	370.1	370.1	357.0	357.0	357.0	127.8	159.8	154.9	149.9	217.5
Maximum Waterflow		l/s	56.3	74.9	74.9	74.9	74.9	74.9	29.0	38.3	38.3	38.3	42.9
Minimum Waterflow		l/s	14.1	18.8	18.8	19.0	19.0	19.0	6.8	8.9	9.2	9.3	11.1
Condenser													
Face Area (Total)		m²	42.8	42.8	42.8	42.8	42.8	42.8	28.5	30.9	33.3	33.3	40.4
Nominal Airflow		m³/s	116.5	116.5	116.5	116.5	116.5	116.5	77.7	84.1	90.6	90.6	110.0
Condenser Fan & Motor													
Quantity			18	18	18	18	18	18	12	13	14	14	17
Diameter		mm	800	800	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Compressor			Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Tandem + Trio + Trio
Quantity of Compressors			9	9	9	9	9	9	6	6	6	6	8
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	2 x 5.3 + 3 x 5.3 + 3 x 5.3
Oil Type			Polyvinyl Ether										
Refrigeration													
Refrigerant Precharged / GWP			R32 / 675										
Charge (Total)		kg	34 + 35 + 37	34 + 35 + 37	34 + 35 + 37	35 + 37 + 38	35 + 37 + 38	35 + 37 + 38	29 + 30	30 + 35	36 + 35	37 + 36	26 + 31 + 31
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
Connections													
Water Inlet / Outlet - Unit			DN150	DN150	DN150	DN150	DN150	DN150	DN125	DN125	DN125	DN125	DN150
Water System													
Minimum System Water Volume	(4)	l	1656.7	1636.8	1753.3	1783.2	1783.2	1975.9	1283.4	1273.0	1668.8	1666.0	1790.2
Nominal Water Flow		l/s	40.1	41.4	42.3	44.5	46.0	47.5	20.8	23.5	27.0	27.9	30.3
Pressure drop		kPa	32.9	21.3	21.9	24.5	25.9	27.4	52.2	29.4	40.3	49.3	20.7
Electrical Data													
Nominal Run Amps	(6)	A	553.1	592.6	612.7	633.5	654.3	675.1	290.9	333.6	376.5	396.2	430.5
Maximum Start Amps		A	825	858	878	892	913	903	460	606	649	662	696
Recommended Mains Fuse Size		A	630	630	630	670	710	710	315	355	400	450	450
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	250.0	250.0	250.0	250.0	250.0	250.0	170.0	170.0	170.0	170.0	170.0
Condenser Fan - Per Fan (EC)													
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor													
Nominal Run Amps	(7)	A	53.7 / 53.7 / 53.7	53.7 / 60.4 / 60.4	60.4 / 60.4 / 60.4	60.4 / 60.4 / 67.3	60.4 / 67.3 / 67.3	67.3 / 67.3 / 67.3	40.7 / 40.7	40.7 / 53.7	53.7 / 53.7	53.7 / 60.4	60.4 / 40.7 / 40.7
Motor Rating		kW	33.6 / 33.6 / 33.6	33.6 / 36.5 / 36.5	36.5 / 36.5 / 36.5	36.5 / 36.5 / 41.3	36.5 / 41.3 / 41.3	41.3 / 41.3 / 41.3	25.9 / 25.9	25.9 / 33.6	33.6 / 33.6	33.6 / 36.5	36.5 / 25.9 / 25.9
Start Amps	(8)	A	326 / 326 / 326	326 / 326 / 326	326 / 326 / 326	326 / 326 / 295	326 / 295 / 295	295 / 295 / 295	210 / 210	210 / 326	326 / 326	326 / 326	326 / 210 / 210

(1) Based on AC units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water. All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design flow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data

DCC Regular Quiet

Mechanical Data	Notes	Units	DCC064TR-18PXXX	DCC070TR-19PXXY	DCC077TR-20SXYY	DCC085TR-21SYYY	DCC088TR-21SYVV	DCC090TR-21SVVV	DCC094TR-21SVVW	DCC098TR-21SVWW	DCC101TR-21SWWW
Capacity											
Number of Refrigeration Circuits			3	3	3	3	3	3	3	3	3
Cooling Duty - EC Fans	(1)	kW	641.3	700.2	773.1	851.8	880.4	899.8	946.0	977.4	1008.9
Nominal Input - Mechanical		kW	191.5	212.5	234.4	256.9	276.4	286.4	300.0	312.7	325.4
EER	(2)		3.35	3.29	3.30	3.31	3.19	3.14	3.15	3.13	3.10
ESEER (Gross)			4.81	4.75	4.75	4.75	4.63	4.56	4.61	4.60	4.56
ESEER (Net)			4.69	4.62	4.61	4.57	4.50	4.44	4.48	4.45	4.42
Nominal Output - Free Cooling		kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)	°C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	10-25-35-45-55-65-80-90-100	10-20-35-45-55-65-75-85-100	10-20-35-45-55-65-75-90-100	10-25-35-45-55-65-80-90-100	10-25-35-45-55-65-80-90-100	10-25-35-45-55-70-80-90-100	10-20-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100
Minimum Turndown Ratio			0.11	0.10	0.10	0.11	0.11	0.11	0.11	0.11	0.12
Dimensions (HxW)		mm	2682 x 2200								
Length		mm	10506	11638	11638	12770	12770	12770	12770	12770	12770
Machine Weight	(3)	kg	6850	7170	7400	7800	7790	7790	7865	7920	7975
Operating Weight		kg	7140	7510	7740	8180	8175	8175	8250	8305	8355
Evaporator			Shell and Tube								
Water Volume (Total Internal)		l	132.1	132.1	383.9	370.1	370.1	370.1	357.0	357.0	357.0
Maximum Waterflow		l/s	57.2	57.2	56.3	56.3	74.9	74.9	74.9	74.9	74.9
Minimum Waterflow		l/s	14.8	14.8	13.9	14.1	18.8	18.8	19.0	19.0	19.0
Condenser											
Face Area (Total)		m²	42.8	45.1	47.5	49.9	49.9	49.9	49.9	49.9	49.9
Nominal Airflow		m³/s	116.5	123.0	129.4	135.9	135.9	135.9	135.9	135.9	135.9
Condenser Fan & Motor											
Quantity			18	19	20	21	21	21	21	21	21
Diameter		mm	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1050	1050	1050	1050	1050	1050	1050	1050	1050
Compressor			Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio
Quantity of Compressors			9	9	9	9	9	9	9	9	9
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3
Oil Type			Polyvinyl Ether								
Refrigeration											
Refrigerant Precharged / GWP			R32 / 675								
Charge (Total)		kg	29 + 31 + 31	29 + 31 + 37	31 + 37 + 39	37 + 38 + 41	37 + 38 + 41	37 + 38 + 41	39 + 39 + 42	39 + 39 + 42	39 + 39 + 42
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
Connections											
Water Inlet / Outlet - Unit			DN150	DN150	DN150	DN150	DN150	DN150	DN150	DN150	DN150
Water System											
Minimum System Water Volume	(4)	l	1251.2	1251.3	1272.0	1664.4	1644.4	1761.8	1792.7	1793.2	1988.5
Nominal Water Flow		l/s	30.5	33.3	36.7	40.5	41.8	42.7	44.9	46.5	48.0
Pressure drop		kPa	19.3	23.1	25.4	34.6	22.8	23.4	26.3	27.9	29.5
Electrical Data											
Nominal Run Amps	(6)	A	436.3	479.0	521.9	564.7	604.2	624.3	645.1	665.9	686.7
Maximum Start Amps		A	606	751	794	837	870	890	904	925	914
Recommended Mains Fuse Size		A	450	500	560	630	630	670	670	710	710
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	170.0	170.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0
Condenser Fan - Per Fan (EC)											
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor											
Nominal Run Amps	(7)	A	40.7 / 40.7 / 40.7	40.7 / 40.7 / 53.7	40.7 / 53.7 / 53.7	53.7 / 53.7 / 53.7	53.7 / 60.4 / 60.4	60.4 / 60.4 / 60.4	60.4 / 67.3 / 67.3	60.4 / 67.3 / 67.3	67.3 / 67.3 / 67.3
Motor Rating		kW	25.9 / 25.9 / 25.9	25.9 / 25.9 / 33.6	25.9 / 33.6 / 33.6	33.6 / 33.6 / 33.6	33.6 / 36.5 / 36.5	36.5 / 36.5 / 36.5	36.5 / 36.5 / 41.3	36.5 / 41.3 / 41.3	41.3 / 41.3 / 41.3
Start Amps	(8)	A	210 / 210 / 210	210 / 210 / 326	210 / 326 / 326	326 / 326 / 326	326 / 326 / 326	326 / 326 / 326	326 / 295 / 295	326 / 295 / 295	295 / 295 / 295

(1) Based on AC units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water. All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design flow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data
DCC Extra Quiet

Mechanical Data	Notes	Units	DCC021DX-06JK0	DCC026DX-06KKL0	DCC032DX-08KLR0	DCC035DX-08KRR0	DCC043DX-10KSS0	DCC044DX-10KSQ0	DCC011DX-06JBC0	DCC016DX-06JGG0	DCC022DX-08JJK0	DCC027DX-08KKL0	DCC033DX-10KLR0
Capacity													
Number of Refrigeration Circuits			2	2	2	2	2	2	2	2	2	2	2
Cooling Duty - EC Fans	(1)	kW	208.6	260.5	324.7	356.3	432.3	445.1	108.4	156.5	212.5	271.4	331.5
Nominal Input - Mechanical		kW	62.1	81.9	98.6	111.5	132.5	137.4	28.6	46.1	59.9	78.1	95.7
EER	(2)		3.36	3.18	3.29	3.20	3.26	3.24	3.79	3.39	3.54	3.47	3.46
ESEER (Gross)			4.98	4.76	4.93	4.98	5.04	4.97	5.17	4.95	5.18	5.00	5.10
ESEER (Net)			4.83	4.60	4.75	4.78	4.83	4.75	5.08	4.83	5.01	4.82	4.90
Nominal Output - Free Cooling		kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)	°C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	25-55-75-100	25-55-75-100	25-45-65-85-100	20-40-55-70-85-100	20-40-55-70-85-100	20-45-65-85-100	45-100	25-55-75-100	25-55-75-100	25-55-75-100	25-45-65-85-100
Minimum Turndown Ratio			0.23	0.25	0.25	0.19	0.19	0.18	0.43	0.27	0.23	0.25	0.24
Dimensions (HxW)		mm	2612 x 2200										
Length		mm	3690	3690	4820	4820	5956	5956	3690	3690	4820	4820	5956
Machine Weight	(3)	kg	2400	2505	3100	3245	3730	3730	2110	2250	2835	2945	3525
Operating Weight		kg	2445	2580	3195	3345	3850	3850	2140	2285	2885	3030	3630
Evaporator			Brazed Plate										
Water Volume (Total Internal)		l	17.8	28.8	33.3	37.8	45.9	45.9	9.1	12.5	17.8	28.8	33.3
Maximum Waterflow		l/s	17.9	21.8	27.0	29.5	31.1	30.7	9.6	13.7	18.6	22.9	28.0
Minimum Waterflow		l/s	4.9	5.3	6.0	6.5	7.2	7.2	3.2	4.0	4.9	5.3	6.0
Condenser													
Face Area (Total)		m²	14.3	14.3	19.0	19.0	23.8	23.8	14.3	14.3	19.0	19.0	23.8
Nominal Airflow		m³/s	24.0	24.0	32.0	32.0	40.1	40.1	24.0	24.0	32.0	32.0	40.1
Condenser Fan & Motor													
Quantity			6	6	8	8	10	10	6	6	8	8	10
Diameter		mm	800	800	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	725	725	725	725	725	725	725	725	725	725	725
Compressor			Tandem + Tandem	Tandem + Tandem	Tandem + Trio	Trio + Trio	Trio + Trio	Trio + Tandem	Single + Single	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Trio
Quantity of Compressors			4	4	5	6	6	5	2	4	4	4	5
Oil Charge Volume (Total)		l	2 x 3.6 + 2 x 6.1	2 x 6.1 + 2 x 6.1	2 x 6.1 + 3 x 6.1	3 x 6.1 + 3 x 6.1	3 x 6.1 + 3 x 6.1	3 x 6.1 + 2 x 6.1	1 x 3.6 + 1 x 6.1	2 x 3.3 + 2 x 3.3	2 x 3.6 + 2 x 6.1	2 x 6.1 + 2 x 6.1	2 x 6.1 + 3 x 6.1
Oil Type			Polyol Ester										
Refrigeration													
Refrigerant Precharged / GWP			R32 / 675										
Charge (Total)		kg	20 + 21	24 + 24	30 + 31	32 + 32	39 + 39	39 + 40	19 + 19	19 + 19	26 + 27	29 + 30	36 + 37
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	29	29	29	29	29	29	29	29	29	29	29
Connections													
Water Inlet / Outlet - Unit			DN80	DN100	DN100	DN100	DN100	DN100	DN80	DN80	DN80	DN100	DN100
Water System													
Minimum System Water Volume	(4)	l	821.2	1134.4	1360.3	1147.8	1388.1	1387.9	792.3	723.7	831.9	1140.4	1377.1
Nominal Water Flow		l/s	9.9	12.4	15.3	16.8	20.3	21.0	5.2	7.4	10.1	12.8	15.7
Pressure drop		kPa	19.0	25.5	30.5	30.7	33.8	35.7	12.9	16.4	19.9	27.2	32.3
Electrical Data													
Nominal Run Amps	(6)	A	132.8	160.6	198.5	217.3	264.5	272.8	73.9	105.6	137.8	165.6	203.5
Maximum Start Amps		A	291	352	390	375	456	552	232	241	296	357	395
Recommended Mains Fuse Size		A	160	200	250	250	315	315	100	125	200	200	250
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	80	100	100	100	100	100	80	80	80	100	100
Condenser Fan - Per Fan (EC)													
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor													
Nominal Run Amps	(7)	A	26.0 / 32.9	32.9 / 39.9	39.9 / 32.9	32.9 / 32.9	39.9 / 39.9	39.9 / 64.0	26.0 / 32.9	22.6 / 22.6	26.0 / 32.9	32.9 / 39.9	39.9 / 32.9
Motor Rating		kW	14.7 / 19.8	19.8 / 23.8	23.8 / 19.8	19.8 / 19.8	23.8 / 23.8	23.8 / 37.7	14.7 / 19.8	13.4 / 13.4	14.7 / 19.8	19.8 / 23.8	23.8 / 19.8
Start Amps	(8)	A	197 / 191	191 231	231 / 191	191 / 191	231 / 231	231 343	197 / 191	158 / 158	197 / 191	191 / 231	231 / 191

(1) Based on AC units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water. All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design flow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data
DCC Extra Quiet

Mechanical Data	Notes	Units	DCC036DX-10KRR0	DCC044DX-12KSS0	DCC045DX-12KSQ0
Capacity					
Number of Refrigeration Circuits			2	2	2
Cooling Duty - EC Fans	(1)	kW	365.5	441.2	454.5
Nominal Input - Mechanical		kW	108.0	129.1	133.7
EER	(2)		3.39	3.42	3.40
ESEER (Gross)			5.15	5.17	5.11
ESEER (Net)			4.93	4.94	4.87
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)	°C	N/A	N/A	N/A
Capacity Steps		%	20-35-55-70-85-100	20-35-55-70-85-100	20-45-60-85-100
Minimum Turndown Ratio			0.19	0.19	0.18
Dimensions (HxW)		mm	2612 x 2200		
Length		mm	5956	7090	7090
Machine Weight	(3)	kg	3670	4110	4110
Operating Weight		kg	3780	4240	4245
Evaporator			Brazed Plate		
Water Volume (Total Internal)		l	37.8	45.9	45.9
Maximum Waterflow		l/s	30.6	30.6	30.5
Minimum Waterflow		l/s	6.5	7.2	7.2
Condenser					
Face Area (Total)		m²	23.8	28.5	28.5
Nominal Airflow		m³/s	40.1	48.1	48.1
Condenser Fan & Motor					
Quantity			10	12	12
Diameter		mm	800	800	800
Maximum Speed		rpm	725	725	725
Compressor			Trio + Trio	Trio + Trio	Trio + Tandem
Quantity of Compressors			6	6	5
Oil Charge Volume (Total)		l	3 x 6.1 + 3 x 6.1	3 x 6.1 + 3 x 6.1	3 x 6.1 + 2 x 6.1
Oil Type			Polyol Ester		
Refrigeration					
Refrigerant Precharged / GWP			R32 / 675		
Charge (Total)		kg	37 + 38	44 + 45	44 + 46
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	29	29	29
Connections					
Water Inlet / Outlet - Unit			DN100	DN100	DN100
Water System					
Minimum System Water Volume	(4)	l	1158.9	1396.0	1397.4
Nominal Water Flow		l/s	17.2	20.8	21.4
Pressure drop		kPa	32.1	36.2	38.4
Electrical Data					
Nominal Run Amps	(6)	A	222.3	269.5	277.8
Maximum Start Amps		A	380	461	557
Recommended Mains Fuse Size		A	315	315	355
Recommended Permanent Fuse Size		A	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4
Evaporator Heater Rating		**W**	100	100	100
Condenser Fan - Per Fan (EC)					
Full Load Amps		A	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps	(7)	A	32.9 / 32.9	39.9 / 39.9	39.9 / 64.0
Motor Rating		kW	19.8 / 19.8	23.8 / 23.8	23.8 / 37.7
Start Amps	(8)	A	191 / 191	231 / 231	231 / 343

(1) Based on AC units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water. All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design flow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data

DCC Extra Quiet

Mechanical Data	Notes	Units	DCC043DX-10LXX0	DCC048DX-11NXY0	DCC055DX-12NYY0	DCC057DX-12NYV0	DCC062TX-14PNXX	DCC063TX-15PXXX	DCC068TX-16PXXY	DCC075TX-17SXYY	DCC083TX-18SYYY	DCC085TX-18SYVV	DCC087TX-18SVVV
Capacity													
Number of Refrigeration Circuits			2	2	2	2	3	3	3	3	3	3	3
Cooling Duty - EC Fans	(1)	kW	426.8	481.8	552.3	567.7	617.8	625.3	681.7	751.3	826.4	849.6	865.8
Nominal Input - Mechanical		kW	131.5	152.9	175.4	186.2	196.8	196.3	218.0	240.2	262.9	284.1	294.9
EER	(2)		3.25	3.15	3.15	3.05	3.14	3.19	3.13	3.13	3.14	2.99	2.94
ESEER (Gross)			4.80	4.69	4.67	4.61	4.53	4.70	4.64	4.65	4.66	4.54	4.47
ESEER (Net)			4.54	4.53	4.48	4.39	4.42	4.58	4.51	4.51	4.49	4.42	4.36
Nominal Output - Free Cooling		kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)	°C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	15-35-50-70-85-100	15-35-50-70-85-100	20-35-50-70-85-100	15-35-50-70-85-100	15-30-40-55-65-80-90-100	10-25-35-45-55-70-80-90-100	10-20-35-45-55-70-80-90-100	10-20-35-45-55-70-80-90-100	10-25-35-45-60-70-80-90-100	10-25-35-45-60-70-80-90-100	10-25-35-45-60-70-80-90-100
Minimum Turndown Ratio			0.17	0.15	0.18	0.17	0.17	0.12	0.11	0.10	0.12	0.11	0.12
Dimensions (HxW)		mm	2682 x 2200										
Length		mm	5978	7110	7110	7110	8242	9374	9374	10506	10506	10506	10506
Machine Weight	(3)	kg	4485	5050	5135	5140	6125	6555	6640	7250	7345	7335	7335
Operating Weight		kg	4590	5220	5300	5305	6330	6760	6840	7540	7635	7630	7625
Evaporator			Shell and Tube										
Water Volume (Total Internal)		l	127.8	159.8	154.9	149.9	217.5	132.1	132.1	383.9	370.1	370.1	370.1
Maximum Waterflow		l/s	29.0	38.3	38.3	38.3	42.9	57.2	57.2	56.3	56.3	74.9	74.9
Minimum Waterflow		l/s	6.8	8.9	9.2	9.3	11.1	14.8	14.8	13.9	14.1	18.8	18.8
Condenser													
Face Area (Total)		m²	23.8	26.1	28.5	28.5	33.3	35.6	38.0	40.4	42.8	42.8	42.8
Nominal Airflow		m³/s	44.5	48.9	53.4	53.4	62.3	66.7	71.2	75.6	80.1	80.1	80.1
Condenser Fan & Motor													
Quantity			10	11	12	12	14	15	16	17	18	18	18
Diameter		mm	800	800	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	725	725	725	725	725	725	725	725	725	725	725
Compressor			Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Tandem + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio
Quantity of Compressors			6	6	6	6	8	9	9	9	9	9	9
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	2 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3
Oil Type			Polyvinyl Ether										
Refrigeration													
Refrigerant Precharged / GWP			R32 / 675										
Charge (Total)		kg	27 + 27	28 + 32	32 + 33	33 + 34	22 + 28 + 28	27 + 28 + 28	27 + 28 + 32	28 + 34 + 35	34 + 35 + 37	34 + 35 + 37	34 + 35 + 37
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
Connections													
Water Inlet / Outlet - Unit			DN125	DN125	DN125	DN125	DN125	DN125	DN125	DN150	DN150	DN150	DN150
Water System													
Minimum System Water Volume	(4)	l	1278.5	1268.1	1663.4	1660.5	1776.3	1246.6	1246.5	1266.9	1659.3	1639.2	1755.8
Nominal Water Flow		l/s	20.3	22.9	26.3	27.0	29.4	29.7	32.4	35.7	39.3	40.4	41.2
Pressure drop		kPa	49.5	27.7	37.7	45.9	21.0	19.8	23.2	23.7	31.9	20.8	21.2
Electrical Data													
Nominal Run Amps	(6)	A	283.1	325.9	368.7	388.4	418.8	424.6	467.4	510.2	553.1	592.6	612.7
Maximum Start Amps		A	452	598	641	654	684	594	740	783	825	858	878
Recommended Mains Fuse Size		A	315	355	400	450	450	450	500	560	630	630	630
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	170.0	170.0	170.0	170.0	170.0	170.0	170.0	250.0	250.0	250.0	250.0
Condenser Fan - Per Fan (EC)													
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor													
Nominal Run Amps	(7)	A	40.7 / 40.7	40.7 / 53.7	53.7 / 53.7	53.7 / 60.4	60.4 / 40.7 / 40.7	40.7 / 40.7 / 40.7	40.7 / 40.7 / 53.7	40.7 / 53.7 / 53.7	53.7 / 53.7 / 53.7	53.7 / 60.4 / 60.4	60.4 / 60.4 / 60.4
Motor Rating		kW	25.9 / 25.9	25.9 / 33.6	33.6 / 33.6	33.6 / 36.5	36.5 / 25.9 / 25.9	25.9 / 25.9 / 25.9	25.9 / 25.9 / 33.6	25.9 / 33.6 / 33.6	33.6 / 33.6 / 33.6	33.6 / 36.5 / 36.5	36.5 / 36.5 / 36.5
Start Amps	(8)	A	210 / 210	210 / 326	326 / 326	326 / 326	326 / 210 / 210	210 / 210 / 210	210 / 210 / 326	210 / 326 / 326	326 / 326 / 326	326 / 326 / 326	326 / 326 / 326

(1) Based on AC units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water. All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design flow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data
DCC Extra Quiet

Mechanical Data	Notes	Units	DCC093TX-18SVWW	DCC096TX-18SWWW	DCC044DX-12LXX0	DCC049DX-13NXY0	DCC056DX-14NYY0	DCC058DX-14NYV0	DCC063TX-17PNXX	DCC064TX-18PXXX	DCC070TX-19PXXY	DCC077TX-20SXYY	DCC084TX-21SYYY
Capacity													
Number of Refrigeration Circuits			3	3	3	2	2	2	2	3	3	3	3
Cooling Duty - EC Fans	(1)	kW	905.8	933.0	960.3	436.0	491.7	563.3	579.8	632.6	638.6	695.9	766.7
Nominal Input - Mechanical		kW	310.1	324.1	338.2	127.8	148.6	170.6	180.7	190.4	190.9	211.8	233.5
EER	(2)		2.92	2.88	2.84	3.41	3.31	3.30	3.21	3.32	3.35	3.29	3.28
ESEER (Gross)			4.52	4.50	4.47	4.92	4.80	4.77	4.71	4.69	4.81	4.76	4.76
ESEER (Net)			4.40	4.37	4.34	4.64	4.63	4.56	4.48	4.57	4.69	4.62	4.61
Nominal Output - Free Cooling		kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)	°C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	10-25-35-45-60-70-80-90-100	10-25-35-45-60-70-80-90-100	10-25-35-45-60-70-80-90-100	15-35-50-70-85-100	15-35-50-70-80-100	15-35-50-70-85-100	15-35-50-70-85-100	15-30-40-55-65-80-90-100	10-25-35-45-55-70-80-90-100	10-20-35-45-55-70-80-90-100	10-20-35-45-55-70-75-90-100
Minimum Turndown Ratio			0.12	0.11	0.12	0.17	0.15	0.17	0.17	0.17	0.11	0.11	0.10
Dimensions (HxW)		mm	2682 x 2200										
Length		mm	10506	10506	10506	7110	8242	8242	8242	10506	10506	11638	11638
Machine Weight	(3)	kg	7410	7465	7520	5005	5510	5595	5600	6890	7110	7430	7660
Operating Weight		kg	7700	7755	7810	5175	5720	5805	5810	7180	7400	7770	8000
Evaporator			Shell and Tube										
Water Volume (Total Internal)		l	357.0	357.0	357.0	127.8	159.8	154.9	149.9	217.5	132.1	132.1	383.9
Maximum Waterflow		l/s	74.9	74.9	74.9	29.0	38.3	38.3	38.3	42.9	57.2	57.2	56.3
Minimum Waterflow		l/s	19.0	19.0	19.0	6.8	8.9	9.2	9.3	11.1	14.8	14.8	13.9
Condenser													
Face Area (Total)		m²	42.8	42.8	42.8	28.5	30.9	33.3	33.3	40.4	42.8	45.1	47.5
Nominal Airflow		m³/s	80.1	80.1	80.1	53.4	57.8	62.3	62.3	75.6	80.1	84.5	89.0
Condenser Fan & Motor													
Quantity			18	18	18	12	13	14	14	17	18	19	20
Diameter		mm	800	800	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	725	725	725	725	725	725	725	725	725	725	725
Compressor			Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Tandem + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio
Quantity of Compressors			9	9	9	6	6	6	6	8	9	9	9
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	2 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3
Oil Type			Polyvinyl Ether										
Refrigeration													
Refrigerant Precharged / GWP			R32 / 675										
Charge (Total)		kg	35 + 37 + 38	35 + 37 + 38	35 + 37 + 38	29 + 30	30 + 35	36 + 35	37 + 36	24 + 31 + 31	26 + 31 + 31	26 + 31 + 37	28 + 37 + 39
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
Connections													
Water Inlet / Outlet - Unit			DN150	DN150	DN150	DN125	DN125	DN125	DN125	DN150	DN150	DN150	DN150
Water System													
Minimum System Water Volume	(4)	l	1785.7	1785.7	1978.6	1285.6	1275.1	1671.6	1668.8	1793.4	1253.5	1253.5	1274.2
Nominal Water Flow		l/s	43.1	44.4	45.7	20.7	23.4	26.8	27.6	30.1	30.4	33.1	36.5
Pressure drop		kPa	23.1	24.3	25.6	52.0	29.1	39.6	48.2	20.5	19.2	22.9	25.1
Electrical Data													
Nominal Run Amps	(6)	A	654.3	675.1	290.9	333.6	376.5	396.2	430.5	436.3	479.0	521.9	564.7
Maximum Start Amps		A	913	903	460	606	649	662	696	606	751	794	837
Recommended Mains Fuse Size		A	710	710	315	355	400	450	450	450	500	560	630
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	250.0	250.0	170.0	170.0	170.0	170.0	170.0	170.0	170.0	250.0	250.0
Condenser Fan - Per Fan (EC)													
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor													
Nominal Run Amps	(7)	A	60.4 / 67.3 / 67.3	67.3 / 67.3 / 67.3	40.7 / 40.7	40.7 / 53.7	53.7 / 53.7	53.7 / 60.4	60.4 / 40.7 / 40.7	40.7 / 40.7 / 40.7	40.7 / 53.7 / 53.7	53.7 / 53.7 / 53.7	
Motor Rating		kW	36.5 / 41.3 / 41.3	41.3 / 41.3 / 41.3	25.9 / 25.9	25.9 / 33.6	33.6 / 33.6	33.6 / 36.5	36.5 / 25.9 / 25.9	25.9 / 25.9 / 25.9	25.9 / 33.6 / 33.6	33.6 / 33.6 / 33.6	
Start Amps	(8)	A	326 / 295 / 295	295 / 295 / 295	210 / 210	210 / 326	326 / 326	326 / 326	326 / 210 / 210	210 / 210 / 210	210 / 326 / 326	326 / 326 / 326	

(1) Based on AC units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water. All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design flow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data
DCC Extra Quiet

Mechanical Data	Notes	Units	DCC087TX-21SYVV	DCC088TX-21SVVV	DCC093TX-21SVVW	DCC096TX-21SVWW	DCC098TX-21SWWW
Capacity							
Number of Refrigeration Circuits			3	3	3	3	3
Cooling Duty - EC Fans	(1)	kW	842.9	867.7	885.0	927.4	956.1
Nominal Input - Mechanical		kW	255.8	275.4	285.5	299.4	312.6
EER	(2)		3.29	3.15	3.10	3.10	3.06
ESEER (Gross)			4.75	4.63	4.56	4.62	4.60
ESEER (Net)			4.57	4.51	4.44	4.48	4.46
Nominal Output - Free Cooling		kW	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)	°C	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100
Minimum Turndown Ratio			0.12	0.11	0.12	0.11	0.11
Dimensions (HxW)		mm	2682 x 2200				
Length		mm	12770	12770	12770	12770	12770
Machine Weight	(3)	kg	8060	8055	8050	8125	8180
Operating Weight		kg	8445	8435	8435	8510	8565
Evaporator			Shell and Tube				
Water Volume (Total Internal)		l	370.1	370.1	370.1	357.0	357.0
Maximum Waterflow		l/s	56.3	74.9	74.9	74.9	74.9
Minimum Waterflow		l/s	14.1	18.8	18.8	19.0	19.0
Condenser							
Face Area (Total)		m²	49.9	49.9	49.9	49.9	49.9
Nominal Airflow		m³/s	93.4	93.4	93.4	93.4	93.4
Condenser Fan & Motor							
Quantity			21	21	21	21	21
Diameter		mm	800	800	800	800	800
Maximum Speed		rpm	725	725	725	725	725
Compressor			Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio
Quantity of Compressors			9	9	9	9	9
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3
Oil Type			Polyvinyl Ether				
Refrigeration							
Refrigerant Precharged / GWP			R32 / 675				
Charge (Total)		kg	34 + 38 + 41	34 + 38 + 41	34 + 38 + 41	36 + 39 + 42	36 + 39 + 42
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	24.5	24.5	24.5	24.5	24.5
Connections							
Water Inlet / Outlet - Unit			DN150	DN150	DN150	DN150	DN150
Water System							
Minimum System Water Volume	(4)	l	1667.4	1647.0	1764.6	1794.9	1794.9
Nominal Water Flow		l/s	40.1	41.3	42.1	44.1	45.5
Pressure drop		kPa	34.1	22.5	23.0	25.5	26.9
Electrical Data							
Nominal Run Amps	(6)	A	604.2	624.3	645.1	665.9	686.7
Maximum Start Amps		A	870	890	904	925	914
Recommended Mains Fuse Size		A	630	670	670	710	710
Recommended Permanent Fuse Size		A	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4
Evaporator Heater Rating		**W**	250.0	250.0	250.0	250.0	250.0
Condenser Fan - Per Fan (EC)							
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor							
Nominal Run Amps	(7)	A	53.7 / 60.4 / 60.4	60.4 / 60.4 / 60.4	60.4 / 60.4 / 67.3	60.4 / 67.3 / 67.3	67.3 / 67.3 / 67.3
Motor Rating		kW	33.6 / 36.5 / 36.5	36.5 / 36.5 / 36.5	36.5 / 36.5 / 41.3	36.5 / 41.3 / 41.3	41.3 / 41.3 / 41.3
Start Amps	(8)	A	326 / 326 / 326	326 / 326 / 326	326 / 326 / 295	326 / 295 / 295	295 / 295 / 295

(1) Based on AC units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water. All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design flow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data
DCF Regular Quiet

Mechanical Data	Notes	Units	DCF012DR-04JBC0	DCF017DR-04JGG0	DCF023DR-06JJK0	DCF029DR-06KKL0	DCF036DR-08KLR0	DCF039DR-08KRR0	DCF047DR-10KSS0	DCF049DR-10KSQ0	DCF012DR-06JBC0	DCF018DR-06JGG0	DCF024DR-08JJK0
Capacity													
Number of Refrigeration Circuits			2	2	2	2	2	2	2	2	2	2	2
Cooling Duty - EC Fans	(1)	kW	116.7	168.0	229.0	291.8	357.5	390.2	472.8	487.5	118.9	171.9	232.6
Nominal Input - Mechanical		kW	30.7	50.6	64.3	84.9	102.6	115.9	138.1	143.1	29.2	47.4	61.7
EER	(2)		3.80	3.32	3.56	3.44	3.48	3.37	3.42	3.41	4.07	3.63	3.77
ESEER (Gross)			4.78	4.57	4.90	4.69	4.84	4.85	4.92	4.85	5.12	4.89	5.11
ESEER (Net)			4.59	4.29	4.56	4.34	4.49	4.41	4.43	4.35	4.93	4.60	4.77
Nominal Output - Free Cooling		kW	137.03	163.84	236.03	258.87	335.42	345.49	427.56	431.77	159.63	203.34	273.46
Ambient temperature for 100% Free Cooling	(5)	°C	4.70	2.60	3.30	1.40	2.20	1.40	1.70	1.40	6.00	4.80	4.70
Capacity Steps		%	45-100	25-55-75-100	25-55-75-100	25-55-75-100	25-45-65-85-100	20-40-55-70-85-100	20-40-55-70-85-100	20-45-60-85-100	45-100	25-55-75-100	25-55-75-100
Minimum Turndown Ratio			0.43	0.27	0.23	0.25	0.25	0.19	0.19	0.18	0.43	0.27	0.23
Dimensions (HxW)		mm	2612 x 2200										
Length		mm	2554	2554	3690	3690	4820	4820	5956	5956	3690	3690	4820
Machine Weight	(3)	kg	1955	2105	2845	3010	3755	3880	4500	4505	2535	2685	3405
Operating Weight		kg	2115	2270	3085	3310	4145	4270	4985	4990	2760	2915	3715
Evaporator			Brazed Plate										
Water Volume (Total Internal)		l	10.6	14.9	20.6	33.3	37.8	37.8	45.9	45.9	10.6	14.9	20.6
Maximum Waterflow		l/s	9.9	14.1	19.3	24.1	29.6	32.3	31.2	30.9	10.1	14.5	19.7
Minimum Waterflow		l/s	2.5	4.4	5.0	5.5	6.1	6.1	10.3	10.3	2.5	4.4	5.0
Condenser													
Face Area (Total)		m²	9.5	9.5	14.3	14.3	19.0	19.0	23.8	23.8	14.3	14.3	19.0
Nominal Airflow		m³/s	23.7	23.7	35.5	35.5	47.3	47.3	59.2	59.2	35.5	35.5	47.3
Condenser Fan & Motor													
Quantity			4	4	6	6	8	8	10	10	6	6	8
Diameter		mm	800	800	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Compressor			Single + Single	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Trio	Trio + Trio	Trio + Trio	Trio + Tandem	Single + Single	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			2	4	4	4	5	6	6	5	2	4	4
Oil Charge Volume (Total)		l	1 x 3.6 + 1 x 6.1	2 x 3.3 + 2 x 3.3	2 x 3.6 + 2 x 6.1	2 x 6.1 + 2 x 6.1	2 x 6.1 + 3 x 6.1	3 x 6.1 + 3 x 6.1	3 x 6.1 + 3 x 6.1	3 x 6.1 + 2 x 6.1	1 x 3.6 + 1 x 6.1	2 x 3.3 + 2 x 3.3	2 x 3.6 + 2 x 6.1
Oil Type			Polyol Ester										
Refrigeration													
Refrigerant Precharged / GWP			R32 / 675										
Charge (Total)		kg	14 + 14	15 + 15	21 + 22	24 + 25	31 + 32	32 + 32	39 + 39	39 + 40	19 + 19	20 + 20	26 + 27
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	29	29	29	29	29	29	29	29	29	29	29
Connections													
Water Inlet / Outlet - Unit			DN80	DN80	DN80	DN100	DN100	DN100	DN100	DN100	DN80	DN80	DN80
Water System													
Minimum System Water Volume	(4)	l	906.5	831.9	961.7	1313.0	1588.8	1338.1	1614.6	1615.7	921.4	844.5	970.7
Nominal Water Flow		l/s	5.9	8.5	11.5	14.7	18.0	19.7	23.8	24.5	6.0	8.6	11.7
Pressure drop		kPa	50.0	83.8	91.4	113.8	110.6	129.1	150.4	158.9	43.1	72.0	83.9
Electrical Data													
Nominal Run Amps	(6)	A	76.1	107.8	143.6	171.4	212.9	231.7	282.5	290.8	84.7	116.4	152.2
Maximum Start Amps		A	234	243	302	362	371	390	474	570	243	252	310
Recommended Mains Fuse Size		A	100	125	160	200	250	250	315	315	100	125	200
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	80	80	80	100	100	100	100	100	80	80	100
Condenser Fan - Per Fan (EC)													
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor													
Nominal Run Amps	(7)	A	26.0 / 32.9	22.6 / 22.6	26.0 / 32.9	32.9 / 39.9	39.9 / 32.9	32.9 / 32.9	39.9 / 39.9	39.9 / 64.0	26.0 / 32.9	22.6 / 22.6	26.0 / 32.9
Motor Rating		kW	14.7 / 19.8	13.4 / 13.4	14.7 / 19.8	19.8 / 23.8	23.8 / 19.8	19.8 / 19.8	23.8 / 23.8	23.8 / 37.7	14.7 / 19.8	13.4 / 13.4	14.7 / 19.8
Start Amps	(8)	A	197 / 191	158 / 158	197 / 191	191 / 231	231 / 191	191 /191	231 / 231	231 / 343	197 / 191	158 / 158	197 / 191

(1) Based on FC units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% ethylene glycol.
All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fi tted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design fl ow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data
DCF Regular Quiet

Mechanical Data	Notes	Units	DCF030DR-08KKL0	DCF036DR-10KLR0	DCF040DR-10KRR0	DCF048DR-12KSS0	DCF049DR-12KSQ0
Capacity							
Number of Refrigeration Circuits			2	2	2	2	2
Cooling Duty - EC Fans	(1)	kW	297.2	362.5	396.3	478.1	493.3
Nominal Input - Mechanical		kW	81.0	99.1	111.9	134.1	138.9
EER	(2)		3.67	3.66	3.54	3.57	3.55
ESEER (Gross)			4.92	5.01	5.03	5.05	4.99
ESEER (Net)			4.57	4.66	4.58	4.55	4.48
Nominal Output - Free Cooling		kW	310.83	384.12	399.89	480.97	487.26
Ambient temperature for 100% Free Cooling	(5)	°C	3.50	3.60	3.10	3.00	2.80
Capacity Steps		%	25-55-75-100	25-45-65-85-100	20-40-55-70-85-100	20-40-55-70-85-100	20-45-60-85-100
Minimum Turndown Ratio			0.25	0.24	0.19	0.19	0.18
Dimensions (HxW)		mm	2612 x 2200				
Length		mm	4820	5956	5956	7090	7090
Machine Weight	(3)	kg	3595	4320	4445	4865	4870
Operating Weight		kg	3975	4795	4920	5435	5440
Evaporator			Brazed Plate				
Water Volume (Total Internal)		l	33.3	37.8	37.8	45.9	45.9
Maximum Waterflow		l/s	24.6	30.0	32.8	30.9	30.8
Minimum Waterflow		l/s	5.5	6.1	6.1	10.3	10.3
Condenser							
Face Area (Total)		m²	19.0	23.8	23.8	28.5	28.5
Nominal Airflow		m³/s	47.3	59.2	59.2	71.0	71.0
Condenser Fan & Motor							
Quantity			8	10	10	12	12
Diameter		mm	800	800	800	800	800
Maximum Speed		rpm	1050	1050	1050	1050	1050
Compressor			Tandem + Tandem	Tandem + Trio	Trio + Trio	Trio + Trio	Trio + Tandem
Quantity of Compressors			4	5	6	6	5
Oil Charge Volume (Total)		l	2 x 6.1 + 2 x 6.1	2 x 6.1 + 3 x 6.1	3 x 6.1 + 3 x 6.1	3 x 6.1 + 3 x 6.1	3 x 6.1 + 2 x 6.1
Oil Type			Polyol Ester				
Refrigeration							
Refrigerant Precharged / GWP			R32 / 675				
Charge (Total)		kg	30 + 31	37 + 38	37 + 38	44 + 45	44 + 46
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	29	29	29	29	29
Connections							
Water Inlet / Outlet - Unit			DN100	DN100	DN100	DN100	DN100
Water System							
Minimum System Water Volume	(4)	l	1328.6	1601.2	1346.6	1624.6	1624.5
Nominal Water Flow		l/s	14.9	18.2	19.9	24.1	24.8
Pressure drop		kPa	104.1	103.2	120.7	145.2	153.5
Electrical Data							
Nominal Run Amps	(6)	A	180.0	221.5	240.3	291.1	299.4
Maximum Start Amps		A	371	413	398	482	578
Recommended Mains Fuse Size		A	200	250	315	315	355
Recommended Permanent Fuse Size		A	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4
Evaporator Heater Rating		**W**	100	100	100	100	100
Condenser Fan - Per Fan (EC)							
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor							
Nominal Run Amps	(7)	A	32.9 / 39.9	39.9 / 32.9	32.9 / 32.9	39.9 / 39.9	39.9 / 64.0
Motor Rating		kW	19.8 / 23.8	23.8 / 19.8	19.8 / 19.8	23.8 / 23.8	23.8 / 37.7
Start Amps	(8)	A	191 / 231	231 / 191	191 / 191	231 / 231	231 / 343

(1) Based on FC units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% ethylene glycol.
All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fi tted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design fl ow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data

DCF Regular Quiet

Mechanical Data	Notes	Units	DCF045DR-08LXX0	DCF053DR-09MXY0	DCF061DR-10MYY0	DCF063DR-10MYV0	DCF068TR-11RNXX	DCF070TR-12RXXX	DCF077TR-13RXXY	DCF084TR-14RXYY	DCF091TR-15RYYY	DCF095TR-15RYVV	DCF098TR-15RVVV
Capacity													
Number of Refrigeration Circuits			2	2	2	2	3	3	3	3	3	3	3
Cooling Duty - EC Fans	(1)	kW	455.5	536.6	607.2	631.9	679.4	697.5	771.8	838.5	911.1	957.4	980.8
Nominal Input - Mechanical		kW	142.5	166.4	189.8	201.2	215.5	214.8	238.3	261.1	284.7	307.3	318.6
EER	(2)		3.20	3.22	3.20	3.14	3.15	3.25	3.24	3.21	3.20	3.12	3.08
ESEER (Gross)			4.49	4.56	4.49	4.47	4.32	4.58	4.59	4.53	4.41	4.45	4.45
ESEER (Net)			4.12	4.14	4.15	4.11	3.97	4.19	4.20	4.14	4.07	4.05	4.08
Nominal Output - Free Cooling		kW	360.40	409.72	457.06	460.89	504.58	543.19	591.26	637.99	685.63	692.76	696.15
Ambient temperature for 100% Free Cooling	(5)	°C	-0.20	-0.80	-1.00	-1.50	-1.20	-0.50	-0.70	-0.80	-1.00	-1.60	-2.00
Capacity Steps		%	15-35-50-70-85-100	15-35-50-70-80-100	15-35-50-70-85-100	15-35-50-70-85-100	15-30-40-55-65-80-90-100	10-25-35-45-55-70-80-90-100	10-20-35-45-55-70-80-85-100	10-20-35-45-55-70-75-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100
Minimum Turndown Ratio			0.17	0.15	0.17	0.17	0.17	0.12	0.11	0.10	0.12	0.11	0.12
Dimensions (HxW)		mm	2682 x 2200										
Length		mm	4846	5978	5978	5978	7110	7110	8242	8242	9374	9374	9374
Machine Weight	(3)	kg	4745	5640	5820	5830	6830	7215	7780	7930	8435	8425	8450
Operating Weight		kg	4950	5930	6110	6120	7165	7660	8305	8450	9055	9050	9075
Evaporator			Shell and Tube										
Water Volume (Total Internal)		l	127.8	331.0	323.0	316.0	538.0	538.0	523.0	523.0	508.0	508.0	492.5
Maximum Waterflow		l/s	36.1	40.0	49.8	49.8	52.1	52.1	65.0	65.0	85.9	65.0	85.9
Minimum Waterflow		l/s	8.5	9.3	11.9	11.9	12.0	12.0	14.9	14.9	19.9	14.9	19.9
Condenser													
Face Area (Total)		m²	19.0	21.4	23.8	23.8	26.1	28.5	30.9	33.3	35.6	35.6	35.6
Nominal Airflow		m³/s	47.3	53.2	59.2	59.2	65.1	71.0	76.9	82.8	88.7	88.7	88.7
Condenser Fan & Motor													
Quantity			8	9	10	10	11	12	13	14	15	15	15
Diameter		mm	800	800	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Compressor			Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Tandem + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio
Quantity of Compressors			6	6	6	6	8	9	9	9	9	9	9
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	2 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3
Oil Type			Polyvinyl Ether										
Refrigeration													
Refrigerant Precharged / GWP			R32 / 675										
Charge (Total)		kg	20 + 25	24 + 33	30 + 34	31 + 36	20 + 27 + 28	23 + 27 + 28	25 + 29 + 34	25 + 34 + 34	31 + 36 + 37	31 + 36 + 37	32 + 37 + 38
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	24.5	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
Connections													
Water Inlet / Outlet - Unit			DN125	DN125	DN125	DN125	DN125	DN150	DN150	DN150	DN150	DN150	DN150
Water System													
Minimum System Water Volume	(4)	l	1435.0	1482.6	1914.6	1931.9	2040.5	1466.3	1483.3	1483.3	1915.3	1931.8	2078.7
Nominal Water Flow		l/s	22.9	27.0	30.5	31.8	34.2	35.1	38.8	42.2	45.8	48.1	49.3
Pressure drop		kPa	128.1	144.4	118.3	130.2	132.4	124.6	125.6	137.9	122.9	146.9	131.0
Electrical Data													
Nominal Run Amps	(6)	A	275.3	318.1	361.0	380.7	407.2	413.0	455.7	498.6	541.4	581.0	601.2
Maximum Start Amps		A	445	590	633	646	673	582	728	771	814	847	867
Recommended Mains Fuse Size		A	315	355	400	400	450	450	500	560	560	630	630
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	170.0	170.0	170.0	170.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0
Condenser Fan - Per Fan (EC)													
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor													
Nominal Run Amps	(7)	A	40.7 / 40.7	40.7 / 53.7	53.7 / 53.7	53.7 / 60.4	60.4 / 40.7 / 40.7	40.7 / 40.7 / 40.7	40.7 / 40.7 / 53.7	40.7 / 53.7 / 53.7	53.7 / 53.7 / 53.7	53.7 / 60.4 / 60.4	60.4 / 60.4 / 60.4
Motor Rating		kW	25.9 / 25.9	25.9 / 33.6	33.6 / 33.6	33.6 / 36.5	36.5 / 25.9 / 25.9	25.9 / 25.9 / 25.9	25.9 / 25.9 / 33.6	25.9 / 33.6 / 33.6	33.6 / 33.6 / 33.6	33.6 / 36.5 / 36.5	36.5 / 36.5 / 36.5
Start Amps	(8)	A	210 / 210	210 / 326	326 / 326	326 / 326	326 / 210 / 210	210 / 210 / 210	210 / 210 / 326	210 / 326 / 326	326 / 326 / 326	326 / 326 / 326	326 / 326 / 326

(1) Based on FC units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% ethylene glycol.
All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fi tted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design fl ow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data
DCF Regular Quiet

Mechanical Data	Notes	Units	DCF101TR-15RVVW	DCF104TR-15RVWW	DCF107TR-15RWWW	DCF046DR-10LXX0	DCF054DR-11MXY0	DCF061DR-12MYY0	DCF064DR-12MYV0	DCF069TR-14RNXX	DCF071TR-15RXXX	DCF078TR-16RXXY	DCF085TR-17RXYY
Capacity													
Number of Refrigeration Circuits			3	3	3	2	2	2	2	3	3	3	3
Cooling Duty - EC Fans	(1)	kW	1011.4	1042.1	1072.9	462.2	543.6	614.6	642.1	694.9	707.8	781.9	848.7
Nominal Input - Mechanical		kW	333.2	347.7	362.2	136.7	160.1	183.0	194.4	205.6	205.9	229.2	251.6
EER	(2)		3.04	3.00	2.96	3.38	3.40	3.36	3.30	3.38	3.44	3.41	3.37
ESEER (Gross)			4.43	4.41	4.37	4.65	4.71	4.62	4.61	4.54	4.74	4.74	4.68
ESEER (Net)			4.05	4.01	3.96	4.28	4.30	4.30	4.26	4.19	4.37	4.37	4.29
Nominal Output - Free Cooling		kW	700.46	704.74	709.05	424.30	476.97	525.85	532.24	607.85	640.91	691.36	739.41
Ambient temperature for 100% Free Cooling	(5)	°C	-2.40	-2.80	-3.20	1.90	1.30	0.90	0.50	1.20	1.70	1.40	1.20
Capacity Steps		%	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-60-70-80-90-100	15-35-50-70-85-100	15-35-50-70-80-100	15-35-50-70-85-100	15-35-50-70-85-100	15-30-40-55-65-80-90-100	10-25-35-45-55-70-80-90-100	10-20-35-45-55-70-80-85-100	10-20-35-45-55-70-75-90-100
Minimum Turndown Ratio			0.11	0.11	0.12	0.17	0.15	0.17	0.17	0.16	0.12	0.11	0.10
Dimensions (HxW)		mm	2682 x 2200										
Length		mm	9374	9374	9374	5978	7110	7110	7110	8242	9374	9374	10506
Machine Weight	(3)	kg	8505	8560	8615	5425	6280	6460	6470	7595	8290	8465	9010
Operating Weight		kg	9130	9185	9240	5720	6610	6790	6800	8000	8905	9080	9720
Evaporator			Shell and Tube										
Water Volume (Total Internal)		l	492.5	492.5	492.5	127.8	331.0	323.0	316.0	538.0	538.0	523.0	523.0
Maximum Waterflow		l/s	85.9	85.9	85.9	36.1	40.0	49.8	49.8	52.1	52.1	65.0	65.0
Minimum Waterflow		l/s	19.9	19.9	19.9	8.5	9.3	11.9	11.9	12.0	12.0	14.9	14.9
Condenser													
Face Area (Total)		m²	35.6	35.6	35.6	23.8	26.1	28.5	28.5	33.3	35.6	38.0	40.4
Nominal Airflow		m³/s	88.7	88.7	88.7	59.2	65.1	71.0	71.0	82.8	88.7	94.6	100.6
Condenser Fan & Motor													
Quantity			15	15	15	10	11	12	12	14	15	16	17
Diameter		mm	800	800	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Compressor			Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Tandem + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio
Quantity of Compressors			9	9	9	6	6	6	6	8	9	9	9
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	2 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3
Oil Type			Polyvinyl Ether										
Refrigeration													
Refrigerant Precharged / GWP			R32 / 675										
Charge (Total)		kg	32 + 37 + 38	32 + 37 + 38	32 + 37 + 38	24 + 27	28 + 35	33 + 36	34 + 38	23 + 31 + 30	26 + 31 + 31	28 + 32 + 37	28 + 37 + 38
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	25.9	25.9	25.9	24.5	25.9	25.9	25.9	25.9	25.9	25.9	25.9
Connections													
Water Inlet / Outlet - Unit			DN150	DN150	DN150	DN125	DN125	DN125	DN125	DN125	DN150	DN150	DN150
Water System													
Minimum System Water Volume	(4)	l	2078.4	2078.2	2300.9	1446.7	1495.5	1928.0	1946.3	2074.0	1478.6	1495.8	1495.8
Nominal Water Flow		l/s	50.8	52.3	53.9	23.2	27.3	30.9	32.3	35.0	35.6	39.3	42.7
Pressure drop		kPa	138.2	145.6	153.3	116.0	132.0	106.0	117.8	118.8	112.0	113.0	126.8
Electrical Data													
Nominal Run Amps	(6)	A	621.9	642.7	663.5	283.1	325.9	368.7	388.4	418.8	424.6	467.4	510.2
Maximum Start Amps		A	881	901	891	452	598	641	654	684	594	740	783
Recommended Mains Fuse Size		A	670	670	710	315	355	400	450	450	450	500	560
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	250.0	250.0	250.0	170.0	170.0	170.0	170.0	250.0	250.0	250.0	250.0
Condenser Fan - Per Fan (EC)													
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor													
Nominal Run Amps	(7)	A	60.4 / 60.4 / 67.3	60.4 / 67.3 / 67.3	67.3 / 67.3 / 67.3	40.7 / 40.7	40.7 / 53.7	53.7 / 53.7	53.7 / 60.4	60.4 / 40.7 / 40.7	40.7 / 40.7 / 40.7	40.7 / 40.7 / 53.7	40.7 / 53.7 / 53.7
Motor Rating		kW	36.5 / 36.5 / 41.3	36.5 / 41.3 / 41.3	41.3 / 41.3 / 41.3	25.9 / 25.9	25.9 / 33.6	33.6 / 33.6	33.6 / 36.5	36.5 / 25.9 / 25.9	25.9 / 25.9 / 25.9	25.9 / 25.9 / 33.6	25.9 / 33.6 / 33.6
Start Amps	(8)	A	326 / 326 / 295	326 / 295 / 295	295 / 295 / 295	210 / 210	210 / 326	326 / 326	326 / 326	326 / 210 / 210	210 / 210 / 210	210 / 210 / 326	210 / 326 / 326

(1) Based on FC units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% ethylene glycol.
All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fi tted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design fl ow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data

DCF Regular Quiet

Mechanical Data	Notes	Units	DCF092TR-18RYYY	DCF097TR-18RYVV	DCF100TR-18RVVV	DCF103TR-18RVVW	DCF107TR-18RVWW	DCF110TR-18RWWW	DCF047DR-12LXX0	DCF055DR-13MXY0	DCF062DR-14MYY0	DCF065DR-14MYV0	DCF070TR-17RNXX
Capacity													
Number of Refrigeration Circuits			3	3	3	3	3	3	2	2	2	2	3
Cooling Duty - EC Fans	(1)	kW	922.1	973.7	999.8	1034.1	1068.6	1103.1	467.5	549.8	621.2	648.7	703.2
Nominal Input - Mechanical		kW	274.5	296.9	308.1	322.5	336.7	351.0	132.5	155.6	178.2	189.0	198.8
EER	(2)		3.36	3.28	3.25	3.21	3.17	3.14	3.53	3.53	3.49	3.43	3.54
ESEER (Gross)			4.54	4.59	4.60	4.58	4.55	4.51	4.77	4.83	4.73	4.72	4.69
ESEER (Net)			4.22	4.20	4.23	4.20	4.17	4.11	4.41	4.42	4.41	4.38	4.36
Nominal Output - Free Cooling		kW	788.84	800.65	806.02	812.59	818.67	824.33	476.31	533.89	585.51	594.54	692.05
Ambient temperature for 100% Free Cooling	(5)	°C	0.90	0.40	0.10	-0.30	-0.70	-1.10	3.20	2.60	2.20	1.90	2.80
Capacity Steps		%	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-20-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	15-35-50-70-85-100	15-35-50-70-80-100	15-35-50-70-85-100	15-35-50-70-85-100	15-30-40-55-65-80-90-100
Minimum Turndown Ratio			0.12	0.11	0.12	0.11	0.11	0.12	0.17	0.15	0.17	0.17	0.16
Dimensions (HxW)		mm	2682 x 2200										
Length		mm	10506	10506	10506	10506	10506	10506	7110	8242	8242	8242	10506
Machine Weight	(3)	kg	9200	9195	9215	9270	9325	9380	6065	6920	7100	7110	8770
Operating Weight		kg	9920	9915	9940	9995	10050	10105	6395	7325	7510	7520	9485
Evaporator			Shell and Tube										
Water Volume (Total Internal)		l	508.0	508.0	492.5	492.5	492.5	492.5	127.8	331.0	323.0	316.0	538.0
Maximum Waterflow		l/s	85.9	65.0	85.9	85.9	85.9	85.9	36.1	40.0	49.8	49.8	52.1
Minimum Waterflow		l/s	19.9	14.9	19.9	19.9	19.9	19.9	8.5	9.3	11.9	11.9	12.0
Condenser													
Face Area (Total)		m²	42.8	42.8	42.8	42.8	42.8	42.8	28.5	30.9	33.3	33.3	40.4
Nominal Airflow		m³/s	106.5	106.5	106.5	106.5	106.5	106.5	71.0	76.9	82.8	82.8	100.6
Condenser Fan & Motor													
Quantity			18	18	18	18	18	18	12	13	14	14	17
Diameter		mm	800	800	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050	1050
Compressor			Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Tandem + Trio + Trio
Quantity of Compressors			9	9	9	9	9	9	6	6	6	6	8
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	2 x 5.3 + 3 x 5.3 + 3 x 5.3
Oil Type			Polyvinyl Ether										
Refrigeration													
Refrigerant Precharged / GWP			R32 / 675										
Charge (Total)		kg	34 + 38 + 40	34 + 38 + 40	35 + 40 + 41	35 + 40 + 41	35 + 40 + 41	35 + 40 + 41	26 + 30	30 + 38	36 + 39	38 + 40	26 + 33 + 34
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	25.9	25.9	25.9	25.9	25.9	25.9	24.5	25.9	25.9	25.9	25.9
Connections													
Water Inlet / Outlet - Unit			DN150	DN150	DN150	DN150	DN150	DN150	DN125	DN125	DN125	DN125	DN150
Water System													
Minimum System Water Volume	(4)	l	1928.6	1946.4	2096.8	2096.8	2096.8	2323.2	1455.3	1504.6	1938.4	1957.3	2095.4
Nominal Water Flow		l/s	46.4	49.0	50.3	52.0	53.8	55.5	23.5	27.7	31.2	32.6	35.4
Pressure drop		kPa	111.3	135.9	119.4	126.7	134.3	142.1	108.9	125.4	99.1	110.5	104.5
Electrical Data													
Nominal Run Amps	(6)	A	553.1	592.6	612.7	633.5	654.3	675.1	290.9	333.6	376.5	396.2	430.5
Maximum Start Amps		A	825	858	878	892	913	903	460	606	649	662	696
Recommended Mains Fuse Size		A	630	630	630	670	710	710	315	355	400	450	450
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	250.0	250.0	250.0	250.0	250.0	250.0	170.0	170.0	170.0	170.0	250.0
Condenser Fan - Per Fan (EC)													
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor													
Nominal Run Amps	(7)	A	53.7 / 53.7 / 53.7	53.7 / 60.4 / 60.4	60.4 / 60.4 / 60.4	60.4 / 60.4 / 67.3	60.4 / 67.3 / 67.3	67.3 / 67.3 / 67.3	40.7 / 40.7	40.7 / 53.7	53.7 / 53.7	53.7 / 60.4	60.4 / 40.7 / 40.7
Motor Rating		kW	33.6 / 33.6 / 33.6	33.6 / 36.5 / 36.5	36.5 / 36.5 / 36.5	36.5 / 36.5 / 41.3	36.5 / 41.3 / 41.3	41.3 / 41.3 / 41.3	25.9 / 25.9	25.9 / 33.6	33.6 / 33.6	33.6 / 36.5	36.5 / 25.9 / 25.9
Start Amps	(8)	A	326 / 326 / 326	326 / 326 / 326	326 / 326 / 326	326 / 326 / 295	326 / 295 / 295	295 / 295 / 295	210 / 210	210 / 326	326 / 326	326 / 326	326 / 210 / 210

(1) Based on FC units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% ethylene glycol.
All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fi tted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design fl ow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data

DCF Regular Quiet

Mechanical Data	Notes	Units	DCF071TR-18RXXX	DCF079TR-19RXXY	DCF086TR-20RXYY	DCF093TR-21RYYY	DCF098TR-21RYVV	DCF101TR-21RVVV	DCF104TR-21RVVW	DCF108TR-21RVWW	DCF111TR-21RWWW
Capacity											
Number of Refrigeration Circuits			3	3	3	3	3	3	3	3	3
Cooling Duty - EC Fans	(1)	kW	716.1	791.4	858.6	932.1	983.8	1010.4	1045.1	1079.9	1114.7
Nominal Input - Mechanical		kW	199.5	222.2	244.5	267.3	288.6	299.2	312.9	326.6	340.2
EER	(2)		3.59	3.56	3.51	3.49	3.41	3.38	3.34	3.31	3.28
ESEER (Gross)			4.87	4.87	4.80	4.64	4.70	4.71	4.69	4.67	4.64
ESEER (Net)			4.50	4.50	4.41	4.32	4.31	4.35	4.32	4.29	4.24
Nominal Output - Free Cooling		kW	720.97	775.60	826.17	878.35	895.11	902.97	912.52	921.32	929.43
Ambient temperature for 100% Free Cooling	(5)	°C	3.00	2.70	2.50	2.20	1.80	1.50	1.20	0.90	0.60
Capacity Steps		%	10-25-35-45-55-70-80-90-100	10-20-35-45-55-70-75-85-100	10-20-35-45-55-70-75-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-20-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100
Minimum Turndown Ratio			0.11	0.11	0.10	0.11	0.11	0.12	0.11	0.11	0.12
Dimensions (HxW)		mm	2682 x 2200								
Length		mm	10506	11638	11638	12770	12770	12770	12770	12770	12770
Machine Weight	(3)	kg	9055	9525	9670	10215	10205	10230	10285	10340	10395
Operating Weight		kg	9770	10330	10475	11120	11115	11140	11195	11245	11300
Evaporator			Shell and Tube								
Water Volume (Total Internal)		l	538.0	523.0	523.0	508.0	508.0	492.5	492.5	492.5	492.5
Maximum Waterflow		l/s	52.1	65.0	65.0	85.9	65.0	85.9	85.9	85.9	85.9
Minimum Waterflow		l/s	12.0	14.9	14.9	19.9	14.9	19.9	19.9	19.9	19.9
Condenser											
Face Area (Total)		m²	42.8	45.1	47.5	49.9	49.9	49.9	49.9	49.9	49.9
Nominal Airflow		m³/s	106.5	112.4	118.3	124.2	124.2	124.2	124.2	124.2	124.2
Condenser Fan & Motor											
Quantity			18	19	20	21	21	21	21	21	21
Diameter		mm	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1050	1050	1050	1050	1050	1050	1050	1050	1050
Compressor			Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio
Quantity of Compressors			9	9	9	9	9	9	9	9	9
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3
Oil Type			Polyvinyl Ether								
Refrigeration											
Refrigerant Precharged / GWP			R32 / 675								
Charge (Total)		kg	29 + 33 + 34	31 + 35 + 41	31 + 39 + 41	37 + 41 + 44	37 + 41 + 44	39 + 42 + 45	39 + 42 + 45	39 + 42 + 45	39 + 42 + 45
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
Connections											
Water Inlet / Outlet - Unit			DN150	DN150	DN150	DN150	DN150	DN150	DN150	DN150	DN150
Water System											
Minimum System Water Volume	(4)	l	1487.5	1505.0	1505.1	1939.1	1955.5	2108.5	2108.6	2108.6	2337.3
Nominal Water Flow		l/s	36.0	39.8	43.2	46.9	49.4	50.8	52.6	54.3	56.1
Pressure drop		kPa	105.0	106.8	120.4	105.4	129.5	112.6	119.5	126.6	134.0
Electrical Data											
Nominal Run Amps	(6)	A	436.3	479.0	521.9	564.7	604.2	624.3	645.1	665.9	686.7
Maximum Start Amps		A	606	751	794	837	870	890	904	925	914
Recommended Mains Fuse Size		A	450	500	560	630	630	670	670	710	710
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0
Condenser Fan - Per Fan (EC)											
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor											
Nominal Run Amps	(7)	A	40.7 / 40.7 / 40.7	40.7 / 40.7 / 53.7	40.7 / 53.7 / 53.7	53.7 / 53.7 / 53.7	53.7 / 60.4 / 60.4	60.4 / 60.4 / 60.4	60.4 / 67.3 / 67.3	60.4 / 67.3 / 67.3	67.3 / 67.3 / 67.3
Motor Rating		kW	25.9 / 25.9 / 25.9	25.9 / 25.9 / 33.6	25.9 / 33.6 / 33.6	33.6 / 33.6 / 33.6	33.6 / 36.5 / 36.5	36.5 / 36.5 / 36.5	36.5 / 41.3 / 41.3	36.5 / 41.3 / 41.3	41.3 / 41.3 / 41.3
Start Amps	(8)	A	210 / 210 / 210	210 / 210 / 326	210 / 326 / 326	326 / 326 / 326	326 / 326 / 326	326 / 326 / 326	326 / 295 / 295	326 / 295 / 295	295 / 295 / 295

(1) Based on FC units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% ethylene glycol.
All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fi tted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design fl ow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data
DCF Extra Quiet

Mechanical Data	Notes	Units	DCF045DX-10LXX0	DCF053DX-11MXY0	DCF060DX-12MYY0	DCF062DX-12MYV0	DCF067TX-14RNXX	DCF069TX-15RXXX	DCF076TX-16RXXY	DCF082TX-17RXYY	DCF089TX-18RYYY	DCF094TX-18RYVV	DCF096TX-18RVVV
Capacity													
Number of Refrigeration Circuits			2	2	2	2	3	3	3	3	3	3	3
Cooling Duty - EC Fans	(1)	kW	452.2	529.6	597.2	619.4	675.1	691.9	762.3	826.3	895.9	937.8	958.8
Nominal Input - Mechanical		kW	136.3	160.1	183.3	195.3	205.9	205.5	229.0	251.7	274.9	298.7	310.6
EER	(2)		3.32	3.31	3.26	3.17	3.28	3.37	3.33	3.28	3.26	3.14	3.09
ESEER (Gross)			4.65	4.72	4.63	4.63	4.52	4.75	4.75	4.69	4.55	4.60	4.61
ESEER (Net)			4.30	4.32	4.32	4.29	4.19	4.38	4.38	4.30	4.23	4.22	4.26
Nominal Output - Free Cooling		kW	344.52	384.87	422.89	425.93	490.01	519.44	558.47	596.07	634.35	639.99	642.48
Ambient temperature for 100% Free Cooling	(5)	°C	-0.80	-1.60	-2.00	-2.50	-1.60	-1.00	-1.40	-1.70	-2.00	-2.60	-3.00
Capacity Steps		%	20-35-50-70-85-100	15-35-50-70-85-100	20-35-55-70-85-100	15-35-50-70-85-100	15-30-40-55-65-80-90-100	10-25-35-45-60-70-80-90-100	10-20-35-45-55-70-80-90-100	10-25-35-45-55-70-80-90-100	10-25-35-45-60-70-80-90-100	10-25-35-45-60-70-80-90-100	10-25-35-50-60-70-80-90-100
Minimum Turndown Ratio			0.18	0.16	0.18	0.17	0.17	0.12	0.11	0.10	0.12	0.11	0.12
Dimensions (HxW)		mm	2682 x 2200										
Length		mm	5978	7110	7110	7110	8242	9374	9374	10506	10506	10506	10506
Machine Weight	(3)	kg	5585	6440	6615	6630	7855	8550	8725	9270	9460	9455	9480
Operating Weight		kg	5875	6770	6950	6960	8260	9165	9345	9980	10180	10175	10200
Evaporator			Shell and Tube										
Water Volume (Total Internal)		l	127.8	331.0	323.0	316.0	538.0	538.0	523.0	523.0	508.0	508.0	492.5
Maximum Waterflow		l/s	36.1	40.0	49.8	49.8	52.1	52.1	65.0	65.0	85.9	65.0	85.9
Minimum Waterflow		l/s	8.5	9.3	11.9	11.9	12.0	12.0	14.9	14.9	19.9	14.9	19.9
Condenser													
Face Area (Total)		m²	23.8	26.1	28.5	28.5	33.3	35.6	38.0	40.4	42.8	42.8	42.8
Nominal Airflow		m³/s	40.0	44.0	48.0	48.0	56.0	60.0	64.0	68.0	72.0	72.0	72.0
Condenser Fan & Motor													
Quantity			10	11	12	12	14	15	16	17	18	18	18
Diameter		mm	800	800	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	725	725	725	725	725	725	725	725	725	725	725
Compressor			Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Tandem + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio
Quantity of Compressors			6	6	6	6	8	9	9	9	9	9	9
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	2 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3
Oil Type			Polyvinyl Ether										
Refrigeration													
Refrigerant Precharged / GWP			R32 / 675										
Charge (Total)		kg	24 + 27	28 + 35	33 + 36	34 + 38	23 + 31 + 30	26 + 31 + 31	28 + 32 + 37	28 + 37 + 38	34 + 38 + 40	34 + 38 + 40	35 + 40 + 41
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	24.5	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9	25.9
Connections													
Water Inlet / Outlet - Unit			DN125	DN125	DN125	DN125	DN125	DN150	DN150	DN150	DN150	DN150	DN150
Water System													
Minimum System Water Volume	(4)	l	1448.1	1496.7	1929.5	1948.1	2075.4	1479.9	1497.1	1497.1	1930.1	1947.9	2097.5
Nominal Water Flow		l/s	22.8	26.7	30.1	31.2	34.0	34.8	38.4	41.6	45.1	47.2	48.2
Pressure drop		kPa	112.1	126.7	101.2	111.2	113.5	108.1	108.5	121.4	106.2	127.7	111.4
Electrical Data													
Nominal Run Amps	(6)	A	283.1	325.9	368.7	388.4	418.8	424.6	467.4	510.2	553.1	592.6	612.7
Maximum Start Amps		A	452	598	641	654	684	594	740	783	825	858	878
Recommended Mains Fuse Size		A	315	355	400	450	450	450	500	560	630	630	630
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	170.0	170.0	170.0	170.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0
Condenser Fan - Per Fan (EC)													
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor													
Nominal Run Amps	(7)	A	40.7 / 40.7	40.7 / 53.7	53.7 / 53.7	53.7 / 60.4	60.4 / 40.7 / 40.7	40.7 / 40.7 / 40.7	40.7 / 40.7 / 53.7	40.7 / 53.7 / 53.7	53.7 / 53.7 / 53.7	53.7 / 60.4 / 60.4	60.4 / 60.4 / 60.4
Motor Rating		kW	25.9 / 25.9	25.9 / 33.6	33.6 / 33.6	33.6 / 36.5	36.5 / 25.9 / 25.9	25.9 / 25.9 / 25.9	25.9 / 25.9 / 33.6	25.9 / 33.6 / 33.6	33.6 / 33.6 / 33.6	33.6 / 36.5 / 36.5	36.5 / 36.5 / 36.5
Start Amps	(8)	A	210 / 210	210 / 326	326 / 326	326 / 326	326 / 210 / 210	210 / 210 / 210	210 / 210 / 326	210 / 326 / 326	326 / 326 / 326	326 / 326 / 326	326 / 326 / 326

(1) Based on FC units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% ethylene glycol.
All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fi tted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design fl ow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data
DCF Extra Quiet

Mechanical Data	Notes	Units	DCF099TX-18RVVW	DCF101TX-18RVWW	DCF104TX-18RWWW	DCF046DX-12LXX0	DCF054DX-13MXY0	DCF061DX-14MYY0	DCF063DX-14MYV0	DCF069TX-17RNXX	DCF071TX-18RXXX	DCF078TX-19RXXY	DCF084TX-20RXYY
Capacity													
Number of Refrigeration Circuits			3	3	3	2	2	2	2	3	3	3	3
Cooling Duty - EC Fans	(1)	kW	988.1	1017.5	1047.0	463.4	542.5	611.1	635.1	694.4	709.4	781.7	846.4
Nominal Input - Mechanical		kW	326.2	341.7	357.2	131.8	154.9	177.4	188.4	197.9	198.6	221.2	243.4
EER	(2)		3.03	2.98	2.93	3.51	3.50	3.44	3.37	3.51	3.57	3.53	3.48
ESEER (Gross)			4.59	4.57	4.53	4.77	4.83	4.74	4.73	4.69	4.87	4.87	4.80
ESEER (Net)			4.23	4.19	4.15	4.41	4.43	4.42	4.39	4.36	4.50	4.50	4.42
Nominal Output - Free Cooling		kW	645.59	648.38	650.87	393.23	437.47	477.60	482.73	568.12	594.18	636.45	676.00
Ambient temperature for 100% Free Cooling	(5)	°C	-3.40	-3.90	-4.30	0.80	0.10	-0.40	-0.80	0.30	0.60	0.20	-0.10
Capacity Steps		%	10-25-35-45-60-70-80-90-100	10-25-35-45-60-70-80-90-100	10-25-35-50-60-70-80-90-100	15-35-50-70-85-100	15-35-50-70-80-100	20-35-50-70-85-100	15-35-50-70-85-100	15-30-40-55-65-80-90-100	10-25-35-45-55-70-80-90-100	10-20-35-45-55-70-80-90-100	10-20-35-45-55-70-80-90-100
Minimum Turndown Ratio			0.12	0.11	0.12	0.17	0.15	0.18	0.17	0.17	0.12	0.11	0.10
Dimensions (HxW)		mm	2682 x 2200										
Length		mm	10506	10506	10506	7110	8242	8242	8242	10506	10506	11638	11638
Machine Weight	(3)	kg	9535	9590	9645	6225	7080	7260	7270	9035	9315	9785	9930
Operating Weight		kg	10255	10310	10365	6555	7485	7665	7675	9745	10030	10590	10735
Evaporator			Shell and Tube										
Water Volume (Total Internal)		l	492.5	492.5	492.5	127.8	331.0	323.0	316.0	538.0	538.0	523.0	523.0
Maximum Waterflow		l/s	85.9	85.9	85.9	36.1	40.0	49.8	49.8	52.1	52.1	65.0	65.0
Minimum Waterflow		l/s	19.9	19.9	19.9	8.5	9.3	11.9	11.9	12.0	12.0	14.9	14.9
Condenser													
Face Area (Total)		m²	42.8	42.8	42.8	28.5	30.9	33.3	33.3	40.4	42.8	45.1	47.5
Nominal Airflow		m³/s	72.0	72.0	72.0	48.0	52.0	56.0	56.0	68.0	72.0	76.0	80.0
Condenser Fan & Motor													
Quantity			18	18	18	12	13	14	14	17	18	19	20
Diameter		mm	800	800	800	800	800	800	800	800	800	800	800
Maximum Speed		rpm	725	725	725	725	725	725	725	725	725	725	725
Compressor			Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Tandem + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio
Quantity of Compressors			9	9	9	6	6	6	6	8	9	9	9
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3	2 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3
Oil Type			Polyvinyl Ether										
Refrigeration													
Refrigerant Precharged / GWP			R32 / 675										
Charge (Total)		kg	35 + 40 + 41	35 + 40 + 41	35 + 40 + 41	26 + 30	30 + 38	36 + 39	38 + 40	26 + 33 + 34	29 + 33 + 34	31 + 35 + 41	31 + 39 + 41
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	25.9	25.9	25.9	24.5	25.9	25.9	25.9	25.9	25.9	25.9	25.9
Connections													
Water Inlet / Outlet - Unit			DN150	DN150	DN150	DN125	DN125	DN125	DN125	DN150	DN150	DN150	DN150
Water System													
Minimum System Water Volume	(4)	l	2097.3	2097.1	2323.3	1457.4	1506.6	1940.6	1959.4	2098.0	1489.5	1507.1	1507.0
Nominal Water Flow		l/s	49.7	51.2	52.7	23.3	27.3	30.8	32.0	35.0	35.7	39.4	42.6
Pressure drop		kPa	117.4	123.6	129.9	107.8	123.1	96.7	106.9	102.7	103.8	105.0	117.9
Electrical Data													
Nominal Run Amps	(6)	A	633.5	654.3	675.1	290.9	333.6	376.5	396.2	430.5	436.3	479.0	521.9
Maximum Start Amps		A	892	913	903	460	606	649	662	696	606	751	794
Recommended Mains Fuse Size		A	670	710	710	315	355	400	450	450	450	500	560
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4	4	4	4	4	4
Evaporator Heater Rating		**W**	250.0	250.0	250.0	170.0	170.0	170.0	170.0	250.0	250.0	250.0	250.0
Condenser Fan - Per Fan (EC)													
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor													
Nominal Run Amps	(7)	A	60.4 / 60.4 / 67.3	60.4 / 67.3 / 67.3	67.3 / 67.3 / 67.3	40.7 / 40.7	40.7 / 53.7	53.7 / 53.7	53.7 / 60.4	60.4 / 40.7 / 40.7	40.7 / 40.7 / 40.7	40.7 / 40.7 / 53.7	40.7 / 53.7 / 53.7
Motor Rating		kW	36.5 / 36.5 / 41.3	36.5 / 41.3 / 41.3	41.3 / 41.3 / 41.3	25.9 / 25.9	25.9 / 33.6	33.6 / 33.6	33.6 / 36.5	36.5 / 25.9 / 25.9	25.9 / 25.9 / 25.9	25.9 / 25.9 / 33.6	25.9 / 33.6 / 33.6
Start Amps	(8)	A	326 / 326 / 295	326 / 295 / 295	295 / 295 / 295	210 / 210	210 / 326	326 / 326	326 / 326	326 / 210 / 210	210 / 210 / 210	210 / 210 / 326	210 / 326 / 326

(1) Based on FC units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% ethylene glycol.
All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fi tted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design fl ow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data
DCF Extra Quiet

Mechanical Data	Notes	Units	DCF091TX-21RYYY	DCF096TX-21RYVV	DCF098TX-21RVVV	DCF101TX-21RVVW	DCF104TX-21RVWW	DCF108TX-21RWWW
Capacity								
Number of Refrigeration Circuits			3	3	3	3	3	3
Cooling Duty - EC Fans	(1)	kW	916.9	962.0	985.0	1016.0	1047.0	1078.0
Nominal Input - Mechanical		kW	266.2	287.9	298.8	313.2	327.5	341.8
EER	(2)		3.44	3.34	3.30	3.24	3.20	3.15
ESEER (Gross)			4.65	4.70	4.72	4.70	4.68	4.65
ESEER (Net)			4.33	4.32	4.37	4.34	4.31	4.26
Nominal Output - Free Cooling		kW	716.45	725.95	730.25	735.56	740.33	744.61
Ambient temperature for 100% Free Cooling	(5)	°C	-0.40	-0.90	-1.20	-1.60	-2.00	-2.40
Capacity Steps		%	10-25-35-45-55-70-80-90-100	10-25-35-45-60-70-80-90-100	10-25-35-45-60-70-80-90-100	10-25-35-45-60-70-80-90-100	10-25-35-45-60-70-80-90-100	10-25-35-45-60-70-80-90-100
Minimum Turndown Ratio			0.12	0.11	0.12	0.11	0.11	0.12
Dimensions (HxW)		mm	2682 x 2200					
Length		mm	12770	12770	12770	12770	12770	12770
Machine Weight	(3)	kg	10475	10470	10490	10545	10600	10655
Operating Weight		kg	11380	11375	11400	11455	11510	11565
Evaporator			Shell and Tube					
Water Volume (Total Internal)		l	508.0	508.0	492.5	492.5	492.5	492.5
Maximum Waterflow		l/s	85.9	65.0	85.9	85.9	85.9	85.9
Minimum Waterflow		l/s	19.9	14.9	19.9	19.9	19.9	19.9
Condenser								
Face Area (Total)		m²	49.9	49.9	49.9	49.9	49.9	49.9
Nominal Airflow		m³/s	83.9	83.9	83.9	83.9	83.9	83.9
Condenser Fan & Motor								
Quantity			21	21	21	21	21	21
Diameter		mm	800	800	800	800	800	800
Maximum Speed		rpm	725	725	725	725	725	725
Compressor			Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio	Trio + Trio + Trio
Quantity of Compressors			9	9	9	9	9	9
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3	3 x 5.3 + 3 x 5.3 + 3 x 5.3
Oil Type			Polyvinyl Ether					
Refrigeration								
Refrigerant Precharged / GWP			R32 / 675					
Charge (Total)		kg	37 + 41 + 44	37 + 41 + 44	39 + 42 + 45	39 + 42 + 45	39 + 42 + 45	39 + 42 + 45
Maximum Allowable Pressure High Side (PS)		barg	40.2	40.2	40.2	40.2	40.2	40.2
Maximum Allowable Pressure Low Side (PS)		barg	25.9	25.9	25.9	25.9	25.9	25.9
Connections								
Water Inlet / Outlet - Unit			DN150	DN150	DN150	DN150	DN150	DN150
Water System								
Minimum System Water Volume	(4)	l	1941.3	1959.4	2110.4	2110.3	2110.1	2338.7
Nominal Water Flow		l/s	46.2	48.4	49.6	51.1	52.7	54.3
Pressure drop		kPa	102.8	125.2	108.0	114.1	120.3	126.7
Electrical Data								
Nominal Run Amps	(6)	A	564.7	604.2	624.3	645.1	665.9	686.7
Maximum Start Amps		A	837	870	890	904	925	914
Recommended Mains Fuse Size		A	630	630	670	670	710	710
Recommended Permanent Fuse Size		A	16	16	16	16	16	16
Maximum Permanent Incoming Cable Size		mm²	4	4	4	4	4	4
Evaporator Heater Rating		**W**	250.0	250.0	250.0	250.0	250.0	250.0
Condenser Fan - Per Fan (EC)								
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor								
Nominal Run Amps	(7)	A	53.7 / 53.7 / 53.7	53.7 / 60.4 / 60.4	60.4 / 60.4 / 60.4	60.4 / 60.4 / 67.3	60.4 / 67.3 / 67.3	67.3 / 67.3 / 67.3
Motor Rating		kW	33.6 / 33.6 / 33.6	33.6 / 36.5 / 36.5	36.5 / 36.5 / 36.5	36.5 / 36.5 / 41.3	36.5 / 41.3 / 41.3	41.3 / 41.3 / 41.3
Start Amps	(8)	A	326 / 326 / 326	326 / 326 / 326	326 / 326 / 326	326 / 326 / 295	326 / 295 / 295	295 / 295 / 295

(1) Based on FC units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% ethylene glycol.
All performance data is supplied in accordance with BS EN 14511-1:2018.
(2) EER = DX Cooling Output / (Compressor input power + Fan Input Power).
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fi tted please refer to Airedale.
(4) For minimum system volume, refer to Design Features & Information - Minimum System Water Volume Calculations.
(5) Ambient temperature that full Freecool capacity can be achieved.
(6) EC fans and no pumps.
(7) Data quoted at design fl ow-rate, 7°C supply temperature and 35°C ambient, 100% water.
(8) Starting amps refers to the direct on line connections.
Pump electrical data is available from Airedale upon request.

Technical Data

Sound Data

EC Fans

	Sound Measurement	Frequency (Hz) 63	125	250	500	1000	2000	4000	8000	Overall [dB(A)]
DCC011DR-04JBC0	Power dB	86.1	78.2	75.1	84.4	83.4	75.4	71.6	62.2	86.3
	Pressure @ 10m	54.0	46.0	43.0	52.3	51.2	43.2	39.5	30.1	54.2
DCC016DR-04JGG0	Power	83.1	81.8	80.2	78.8	82.1	76.5	74.8	65.9	85.0
	Pressure @ 10m	51.5	49.7	48.1	46.7	49.9	44.3	42.7	33.8	52.8
DCC021DR-04JJK0	Power	80.8	85.9	83.7	87.9	87.2	79.4	75.2	66.2	90.1
	Pressure @ 10m	57.6	53.8	51.5	55.8	55.0	47.3	43.1	34.0	58.0
DCC026DR-04KKL0	Power	77.9	87.6	85.1	90.5	89.3	81.1	76.4	67.0	92.3
	Pressure @ 10m	60.1	55.5	53.0	58.4	57.2	48.9	44.3	34.8	60.2
DCC011DR-06JBC0	Power	88.9	76.6	71.9	84.3	83.3	75.3	71.6	62.1	86.2
	Pressure @ 10m	56.7	44.3	39.7	52.0	51.0	43.0	39.3	29.9	53.9
DCC016DR-06JGG0	Power	87.7	80.1	76.8	77.3	81.5	76.1	74.7	65.7	84.3
	Pressure @ 10m	55.4	47.8	44.6	45.0	49.2	43.9	42.4	33.4	52.0
DCC021DR-06JJK0	Power	86.2	82.4	80.5	87.5	86.5	78.5	74.7	65.4	89.5
	Pressure @ 10m	54.2	50.1	48.2	55.3	54.3	46.3	42.4	33.1	57.2
DCC027DR-06KKL0	Power	83.8	84.6	83.3	90.3	88.9	80.3	75.9	66.1	91.8
	Pressure @ 10m	53.3	52.4	51.0	58.0	56.6	48.0	43.6	33.8	59.6
DCC032DR-06KLR0	Power	81.2	88.0	85.8	91.5	90.1	81.8	77.3	68.0	93.1
	Pressure @ 10m	59.6	55.7	53.5	59.2	57.8	49.5	45.0	35.8	60.9
DCC036DR-06KRR0	Power	79.0	89.3	86.8	92.3	90.7	82.7	78.4	70.0	93.9
	Pressure @ 10m	61.5	57.0	54.5	60.1	58.4	50.4	46.1	37.7	61.6
DCC022DR-08JJK0	Power	89.1	81.1	78.1	87.4	86.4	78.4	74.6	65.2	89.3
	Pressure @ 10m	56.7	48.7	45.7	55.0	54.0	46.0	42.2	32.8	56.9
DCC027DR-08KKL0	Power	87.6	83.1	81.1	90.2	88.6	80.0	75.7	65.7	91.6
	Pressure @ 10m	55.3	50.7	48.7	57.8	56.2	47.6	43.3	33.3	59.2
DCC033DR-08KLR0	Power	85.9	85.0	83.5	91.2	89.7	81.1	76.8	67.3	92.7
	Pressure @ 10m	54.4	52.6	51.1	58.8	57.3	48.7	44.4	34.9	60.3
DCC036DR-08KRR0	Power	84.5	86.0	84.7	92.1	90.2	81.8	77.9	69.3	93.4
	Pressure @ 10m	54.0	53.6	52.3	59.7	57.8	49.4	45.5	36.9	61.0
DCC043DR-08LXX0	Power	96.2	96.8	91.6	85.7	85.1	80.7	78.9	66.6	90.3
	Pressure @ 10m	64.9	64.4	59.1	53.3	52.7	48.3	46.5	34.2	57.9
DCC043DR-08KSS0	Power	82.4	88.7	87.0	92.2	91.4	82.7	77.7	66.7	94.2
	Pressure @ 10m	58.5	56.3	54.6	59.8	59.0	50.3	45.3	34.3	61.8
DCC045DR-08KSQ0	Power	82.3	89.5	87.2	95.3	91.5	86.9	80.0	70.4	96.0
	Pressure @ 10m	59.9	57.1	54.8	62.9	59.1	54.5	47.6	38.0	63.6
DCC033DR-10KLR0	Power	88.7	83.9	81.8	91.1	89.5	80.9	76.7	67.0	92.5
	Pressure @ 10m	56.3	51.4	49.3	58.6	57.0	48.4	44.2	34.5	60.0
DCC037DR-10KRR0	Power	87.8	84.8	83.0	92.0	90.0	81.6	77.8	69.1	93.2
	Pressure @ 10m	55.5	52.3	50.5	59.5	57.4	49.0	45.2	36.6	60.7
DCC043DR-10LXX0	Power	96.2	96.4	90.9	84.6	83.4	79.2	78.5	65.5	89.2
	Pressure @ 10m	64.1	63.9	58.4	52.1	50.9	46.7	46.0	32.9	56.7
DCC044DR-10KSS0	Power	86.2	86.5	85.2	92.0	91.0	82.2	77.3	65.5	93.8
	Pressure @ 10m	54.9	54.0	52.7	59.5	58.5	49.6	44.8	32.9	61.3
DCC045DR-10KSQ0	Power	86.0	87.4	85.5	95.2	91.1	86.7	79.7	69.8	95.7
	Pressure @ 10m	55.2	54.9	53.0	62.6	58.6	54.1	47.1	37.3	63.2
DCC048DR-09NXY0	Power	93.9	95.7	91.5	87.1	86.2	81.5	80.3	68.7	91.0
	Pressure @ 10m	64.9	63.1	59.0	54.6	53.6	49.0	47.8	36.2	58.5
DCC056DR-10NYY0	Power	88.7	94.2	91.6	88.2	87.1	82.3	81.4	70.2	91.7
	Pressure @ 10m	65.2	61.7	59.0	55.7	54.5	49.7	48.9	37.6	59.2
DCC057DR-10NYV0	Power	92.9	94.7	93.1	88.6	87.3	82.7	80.9	79.1	92.3
	Pressure @ 10m	65.6	62.1	60.6	56.0	54.8	50.2	48.3	46.5	59.8

(1) dB(A) is the overall sound level, measured on the A scale.
(2) All sound data measured at nominal conditions: Water in/out 12/7°C at 35°C ambient.
(3) Based on a unit with a 300mm plenum, for other configurations please see Airedale.

⚠CAUTION	The sound pressure data quoted is only valid in free field conditions, where the unit is installed on a reflective base. If the equipment is placed adjacent to a reflective wall, values may vary to those stated, typically increasing by 3dB for each side added.

Technical Data

Sound Data

EC Fans

	Sound Measurement	Frequency (Hz) 63	125	250	500	1000	2000	4000	8000	Overall [dB(A)]
DCC044DR-12LXX0	Power	96.2	96.2	90.5	84.0	82.3	78.6	78.4	64.9	88.7
	Pressure @ 10m	63.8	63.6	57.8	51.3	49.6	45.9	45.7	32.2	56.0
DCC044DR-12KSS0	Power	88.7	85.6	83.8	91.9	90.9	82.0	77.2	65.0	93.6
	Pressure @ 10m	56.3	52.9	51.1	59.3	58.2	49.3	44.5	32.3	61.0
DCC046DR-12KSQ0	Power	88.5	86.5	84.1	95.1	90.9	86.6	79.6	69.6	95.6
	Pressure @ 10m	56.3	53.9	51.5	62.4	58.3	53.9	46.9	37.0	62.9
DCC049DR-11NXY0	Power	93.8	95.1	90.8	86.3	84.8	80.1	80.1	68.0	90.1
	Pressure @ 10m	64.1	62.4	58.2	53.6	52.1	47.4	47.4	35.4	57.4
DCC056DR-12NYY0	Power	88.3	93.3	90.8	87.5	85.9	80.8	81.2	69.6	90.8
	Pressure @ 10m	64.2	60.6	58.1	54.8	53.2	48.2	48.5	37.0	58.2
DCC058DR-12NYV0	Power	92.7	93.6	92.5	87.8	86.1	80.8	80.5	79.0	91.3
	Pressure @ 10m	64.4	60.9	59.8	55.1	53.4	48.1	47.8	46.3	58.7
DCC062TR-11PNXX	Power	97.2	97.6	93.6	87.9	87.0	82.6	80.5	77.4	92.2
	Pressure @ 10m	66.1	64.9	60.9	55.2	54.3	49.9	47.8	44.7	59.5
DCC063TR-12PXXX	Power	98.0	98.5	93.3	87.4	86.8	82.4	80.6	68.3	92.0
	Pressure @ 10m	66.3	65.9	60.6	54.7	54.1	49.7	47.9	35.6	59.3
DCC049DR-13NXY0	Power	93.8	94.8	90.3	85.8	83.9	79.4	79.9	67.7	89.5
	Pressure @ 10m	63.7	62.0	57.5	53.0	51.1	46.6	47.1	34.9	56.7
DCC057DR-14NYY0	Power	88.2	92.8	90.2	87.1	85.0	80.2	81.1	69.3	90.2
	Pressure @ 10m	63.8	60.0	57.4	54.3	52.2	47.4	48.3	36.5	57.5
DCC059DR-14NYV0	Power	92.6	92.9	92.1	87.3	85.1	79.8	80.3	78.9	90.7
	Pressure @ 10m	63.8	60.1	59.3	54.5	52.3	47.0	47.5	46.1	57.9
DCC063TR-14PNXX	Power	97.1	97.1	93.0	87.0	85.6	80.9	80.1	77.3	91.3
	Pressure @ 10m	65.2	64.3	60.2	54.2	52.8	48.1	47.3	44.5	58.5
DCC068TR-13PXXY	Power	96.6	97.8	93.3	88.4	87.5	82.9	81.6	69.8	92.5
	Pressure @ 10m	66.3	65.0	60.4	55.6	54.7	50.1	48.8	37.0	59.7
DCC076TR-14SXYY	Power	94.5	97.0	93.3	89.3	88.2	83.5	82.5	71.0	93.0
	Pressure @ 10m	66.5	64.2	60.5	56.5	55.4	50.7	49.7	38.2	60.3
DCC063TR-15PXXX	Power	98.0	98.2	92.6	86.4	85.1	80.9	80.3	67.2	91.0
	Pressure @ 10m	65.5	65.2	59.7	53.4	52.2	48.0	47.4	34.3	58.0
DCC069TR-16PXXY	Power	96.5	97.3	92.6	87.5	86.1	81.5	81.4	69.1	91.5
	Pressure @ 10m	65.5	64.4	59.6	54.6	53.1	48.6	48.4	36.1	58.6
DCC083TR-15SYYY	Power	90.5	96.1	93.4	90.0	88.9	84.1	83.2	72.0	93.5
	Pressure @ 10m	66.6	63.1	60.4	57.1	56.0	51.2	50.3	39.0	60.6
DCC086TR-15SYVV	Power	95.4	96.5	95.3	90.4	89.1	84.6	82.4	81.9	94.2
	Pressure @ 10m	67.0	63.6	62.3	57.5	56.2	51.7	49.5	49.0	61.3
DCC088TR-15SVVV	Power	96.7	96.8	96.0	90.7	89.3	84.9	81.9	83.5	94.5
	Pressure @ 10m	67.3	63.9	63.1	57.7	56.4	51.9	49.0	50.6	61.6
DCC092TR-15SVVW	Power	95.8	97.8	96.4	91.7	89.8	84.9	82.4	81.9	95.0
	Pressure @ 10m	66.7	64.9	63.4	58.8	56.9	52.0	49.5	49.0	62.1
DCC095TR-15SVWW	Power	94.6	98.7	96.7	92.6	90.2	84.9	82.9	79.2	95.4
	Pressure @ 10m	66.0	65.8	63.8	59.7	57.3	52.0	50.0	46.3	62.5
DCC098TR-15SWWW	Power	93.1	99.4	97.0	93.3	90.7	85.0	83.3	70.9	95.8
	Pressure @ 10m	65.3	66.5	64.1	60.4	57.7	52.1	50.4	38.0	62.9
DCC064TR-17PNXX	Power	97.1	96.8	92.6	86.4	84.3	80.0	79.9	77.2	90.6
	Pressure @ 10m	64.6	63.8	59.5	53.3	51.2	46.9	46.9	44.1	57.5
DCC064TR-18PXXX	Power	97.9	98.0	92.2	85.7	84.0	80.3	80.2	66.7	90.4
	Pressure @ 10m	65.2	64.9	59.2	52.7	51.0	47.3	47.1	33.6	57.4
DCC076TR-17SXYY	Power	94.4	96.3	92.6	88.5	87.0	82.1	82.2	70.4	92.1
	Pressure @ 10m	65.5	63.3	59.5	55.4	53.9	49.0	49.2	37.3	59.1

(1) dB(A) is the overall sound level, measured on the A scale.
(2) All sound data measured at nominal conditions: Water in/out 12/7°C at 35°C ambient.
(3) Based on a unit with a 300mm plenum, for other configurations please see Airedale.

⚠CAUTION	The sound pressure data quoted is only valid in free field conditions, where the unit is installed on a reflective base. If the equipment is placed adjacent to a reflective wall, values may vary to those stated, typically increasing by 3dB for each side added.

Technical Data

Sound Data

EC Fans

	Sound Measurement	Frequency (Hz) 63	125	250	500	1000	2000	4000	8000	Overall [dB(A)]
DCC084TR-18SYYY	Power	90.1	95.1	92.6	89.3	87.7	82.6	83.0	71.4	92.6
	Pressure @ 10m	65.7	62.0	59.5	56.3	54.7	49.6	49.9	38.4	59.6
DCC087TR-18SYVV	Power	95.3	95.4	94.7	89.6	87.9	82.4	82.0	81.9	93.2
	Pressure @ 10m	65.8	62.3	61.6	56.6	54.8	49.4	49.0	48.8	60.1
DCC089TR-18SVVV	Power	96.6	95.5	95.4	89.8	87.9	82.4	81.4	83.5	93.4
	Pressure @ 10m	65.8	62.5	62.4	56.7	54.9	49.3	48.4	50.4	60.4
DCC094TR-18SVVW	Power	95.7	97.2	96.0	91.3	89.0	83.2	82.1	81.8	94.3
	Pressure @ 10m	65.5	64.1	63.0	58.2	56.0	50.1	49.1	48.8	61.3
DCC097TR-18SVWW	Power	94.5	98.3	96.5	92.4	89.9	83.7	82.7	79.2	95.0
	Pressure @ 10m	65.0	65.3	63.5	59.3	56.8	50.7	49.6	46.1	62.0
DCC100TR-18SWWW	Power	93.0	99.2	97.0	93.2	90.5	84.3	83.2	70.8	95.6
	Pressure @ 10m	64.5	66.2	63.9	60.2	57.5	51.2	50.1	37.7	62.6
DCC070TR-19PXXY	Power	96.5	97.1	92.1	87.0	85.1	80.9	81.2	68.7	91.0
	Pressure @ 10m	65.1	63.9	59.0	53.9	51.9	47.7	48.1	35.5	57.8
DCC077TR-20SXYY	Power	94.4	96.0	92.1	88.0	86.0	81.4	82.1	70.0	91.5
	Pressure @ 10m	65.1	62.8	58.9	54.9	52.9	48.3	49.0	36.9	58.4
DCC085TR-21SYYY	Power	89.9	94.5	92.0	88.9	86.8	82.0	82.9	71.1	92.0
	Pressure @ 10m	65.1	61.3	58.8	55.6	53.6	48.7	49.6	37.8	58.8
DCC088TR-21SYVV	Power	95.2	94.7	94.3	89.1	86.8	81.4	81.8	81.8	92.5
	Pressure @ 10m	65.1	61.4	61.0	55.9	53.6	48.2	48.6	48.6	59.3
DCC090TR-21SVVV	Power	96.5	94.8	95.1	89.3	86.8	81.2	81.2	83.5	92.8
	Pressure @ 10m	65.1	61.5	61.8	56.0	53.6	47.9	47.9	50.2	59.5
DCC094TR-21SVVW	Power	95.6	96.5	95.6	90.8	88.0	81.6	81.8	81.8	93.6
	Pressure @ 10m	64.3	63.3	62.4	57.5	54.7	48.3	48.6	48.5	60.4
DCC098TR-21SVWW	Power	94.4	97.7	96.1	91.9	88.9	81.9	82.4	79.1	94.3
	Pressure @ 10m	63.4	64.5	62.9	58.7	55.6	48.7	49.1	45.8	61.1
DCC101TR-21SWWW	Power	92.7	98.7	96.6	92.8	89.6	82.3	82.9	69.9	94.9
	Pressure @ 10m	62.2	65.4	63.3	59.5	56.3	49.0	49.6	36.6	61.6
DCC011DX-06JBC0	Power	89.4	77.0	72.2	73.3	77.4	64.9	65.8	54.8	79.1
	Pressure @ 10m	57.2	44.8	40.0	41.1	45.2	32.7	33.5	22.5	46.8
DCC016DX-06JGG0	Power	88.2	80.5	77.3	74.3	76.4	67.8	69.1	58.5	79.4
	Pressure @ 10m	55.9	48.3	45.1	42.0	44.2	35.5	36.8	26.3	47.1
DCC021DX-06JJK0	Power	87.8	81.2	78.5	77.7	80.8	68.9	68.9	58.2	82.6
	Pressure @ 10m	55.6	49.0	46.2	45.5	48.5	36.7	36.7	25.9	50.4
DCC026DX-06KKL0	Power	87.7	81.2	78.6	79.4	83.0	69.5	69.6	58.5	84.5
	Pressure @ 10m	55.5	48.9	46.3	47.2	50.7	37.3	37.4	26.2	52.2
DCC022DX-08JJK0	Power	89.7	81.5	78.3	77.7	80.7	68.8	68.9	58.1	82.6
	Pressure @ 10m	57.3	49.1	45.9	45.3	48.3	36.4	36.5	25.7	50.2
DCC027DX-08KKL0	Power	89.0	82.4	79.8	79.9	83.1	69.9	69.7	58.7	84.7
	Pressure @ 10m	56.6	50.0	47.4	47.5	50.7	37.5	37.3	26.3	52.3
DCC032DX-08KLR0	Power	89.0	82.4	79.8	80.5	83.8	70.6	70.7	59.9	85.4
	Pressure @ 10m	56.6	50.0	47.4	48.1	51.4	38.2	38.3	27.5	53.0
DCC035DX-08KRR0	Power	88.9	82.4	79.9	80.9	83.9	71.1	71.8	61.8	85.6
	Pressure @ 10m	56.6	50.0	47.5	48.5	51.5	38.7	39.4	29.4	53.2
DCC033DX-10KLR0	Power	89.9	83.4	80.7	80.8	83.9	70.9	70.7	60.0	85.6
	Pressure @ 10m	57.4	50.9	48.2	48.3	51.4	38.3	38.2	27.5	53.0
DCC036DX-10KRR0	Power	89.9	83.4	80.8	81.2	83.9	71.3	71.8	61.8	85.7
	Pressure @ 10m	57.4	50.9	48.2	48.7	51.4	38.8	39.3	29.3	53.2
DCC043DX-10LXX0	Power	96.2	95.8	90.7	79.1	79.6	72.2	70.8	64.4	86.2
	Pressure @ 10m	63.8	63.2	58.1	46.5	47.0	39.7	38.3	31.9	53.7

(1) dB(A) is the overall sound level, measured on the A scale.
(2) All sound data measured at nominal conditions: Water in/out 12/7°C at 35°C ambient.
(3) Based on a unit with a 300mm plenum, for other configurations please see Airedale.

⚠CAUTION	The sound pressure data quoted is only valid in free field conditions, where the unit is installed on a reflective base. If the equipment is placed adjacent to a reflective wall, values may vary to those stated, typically increasing by 3dB for each side added.

Technical Data

Sound Data

EC Fans

	Sound Measurement	Frequency (Hz) 63	125	250	500	1000	2000	4000	8000	Overall [dB(A)]
DCC043DX-10KSS0	Power	90.0	83.4	80.8	81.5	85.5	71.5	70.9	58.0	86.8
	Pressure @ 10m	57.5	50.8	48.3	48.9	53.0	39.0	38.4	25.4	54.3
DCC044DX-10KSQ0	Power	90.0	84.6	80.8	83.6	85.3	75.2	73.6	62.3	87.4
	Pressure @ 10m	57.6	52.0	48.2	51.0	52.7	42.6	41.1	29.8	54.8
DCC044DX-12LXX0	Power	96.2	95.8	90.8	79.5	79.9	72.6	71.0	64.5	86.4
	Pressure @ 10m	63.7	63.1	58.1	46.9	47.2	39.9	38.3	31.8	53.8
DCC044DX-12KSS0	Power	90.8	84.2	81.5	81.8	85.5	71.8	71.0	58.2	87.0
	Pressure @ 10m	58.1	51.5	48.9	49.1	52.9	39.1	38.3	25.5	54.3
DCC045DX-12KSQ0	Power	90.8	85.2	81.5	83.8	85.3	75.3	73.7	62.4	87.5
	Pressure @ 10m	58.3	52.5	48.9	51.1	52.6	42.6	41.0	29.7	54.8
DCC048DX-11NXY0	Power	93.8	94.2	90.3	80.3	80.5	72.8	72.1	66.8	86.2
	Pressure @ 10m	63.5	61.5	57.6	47.7	47.8	40.1	39.4	34.1	53.6
DCC055DX-12NYY0	Power	88.0	91.7	89.9	81.3	81.2	73.3	73.1	68.3	86.2
	Pressure @ 10m	63.4	59.0	57.2	48.6	48.5	40.7	40.4	35.6	53.6
DCC057DX-12NYV0	Power	92.5	91.5	91.9	81.3	81.0	72.9	72.3	78.8	87.3
	Pressure @ 10m	63.3	58.8	59.2	48.6	48.3	40.2	39.6	46.2	54.6
DCC049DX-13NXY0	Power	93.8	94.3	90.4	80.7	80.7	73.2	72.2	66.8	86.4
	Pressure @ 10m	63.5	61.5	57.6	47.9	47.9	40.4	39.4	34.0	53.7
DCC056DX-14NYY0	Power	88.1	91.8	90.0	81.6	81.4	73.7	73.1	68.3	86.4
	Pressure @ 10m	63.3	59.0	57.2	48.8	48.6	40.8	40.3	35.5	53.7
DCC058DX-14NYV0	Power	92.5	91.6	91.9	81.6	81.2	73.2	72.3	78.9	87.4
	Pressure @ 10m	63.2	58.8	59.1	48.8	48.4	40.4	39.5	46.0	54.7
DCC062TX-14PNXX	Power	97.1	96.2	92.7	81.0	81.2	73.5	72.2	77.1	88.0
	Pressure @ 10m	64.7	63.4	59.9	48.2	48.4	40.7	39.4	44.3	55.2
DCC063TX-15PXXX	Power	97.9	97.5	92.4	80.8	81.3	74.0	72.6	66.2	88.0
	Pressure @ 10m	65.2	64.6	59.5	47.9	48.4	41.1	39.7	33.3	55.1
DCC068TX-16PXXY	Power	96.5	96.5	92.2	81.7	82.0	74.4	73.5	67.9	88.0
	Pressure @ 10m	65.1	63.6	59.2	48.8	49.0	41.5	40.6	35.0	55.1
DCC063TX-17PNXX	Power	97.1	96.3	92.8	81.4	81.5	73.9	72.3	77.1	88.2
	Pressure @ 10m	64.5	63.3	59.8	48.4	48.4	40.9	39.3	44.1	55.2
DCC064TX-18PXXX	Power	97.9	97.6	92.5	81.3	81.7	74.4	72.7	66.3	88.2
	Pressure @ 10m	65.1	64.5	59.5	48.3	48.6	41.3	39.7	33.2	55.2
DCC075TX-17SXYY	Power	94.3	95.3	91.9	82.4	82.5	74.8	74.2	69.1	88.0
	Pressure @ 10m	64.9	62.2	58.9	49.4	49.5	41.7	41.2	36.1	55.0
DCC083TX-18SYYY	Power	89.8	93.5	91.6	83.1	83.0	75.1	74.8	70.1	88.0
	Pressure @ 10m	64.8	60.4	58.6	50.0	49.9	42.1	41.8	37.0	55.0
DCC085TX-18SYVV	Power	95.1	93.1	94.1	83.0	82.7	74.5	73.7	81.8	89.3
	Pressure @ 10m	64.7	60.1	61.1	50.0	49.6	41.4	40.7	48.7	56.3
DCC087TX-18SVVV	Power	96.4	93.0	95.0	83.0	82.5	74.1	73.0	83.4	89.9
	Pressure @ 10m	64.7	59.9	61.9	50.0	49.5	41.1	40.0	50.4	56.8
DCC091TX-18SVVW	Power	95.5	95.1	95.5	84.1	83.5	74.2	73.4	81.7	90.3
	Pressure @ 10m	63.6	62.1	62.5	51.1	50.5	41.1	40.4	48.7	57.3
DCC093TX-18SVWW	Power	94.2	96.5	95.9	85.0	84.4	74.2	73.8	78.9	90.7
	Pressure @ 10m	62.2	63.5	62.9	51.9	51.3	41.2	40.7	45.9	57.6
DCC096TX-18SWWW	Power	92.5	97.6	96.4	85.7	85.1	74.3	74.1	68.0	91.0
	Pressure @ 10m	60.2	64.6	63.3	52.6	52.0	41.2	41.1	34.9	58.0
DCC070TX-19PXXY	Power	96.5	96.6	92.3	82.1	82.2	74.8	73.6	67.9	88.2
	Pressure @ 10m	64.9	63.4	59.1	48.9	49.1	41.6	40.4	34.8	55.1
DCC077TX-20SXYY	Power	94.3	95.3	92.0	82.8	82.7	75.1	74.3	69.2	88.2
	Pressure @ 10m	64.8	62.2	58.9	49.6	49.6	41.9	41.1	36.0	55.1

(1) dB(A) is the overall sound level, measured on the A scale.
(2) All sound data measured at nominal conditions: Water in/out 12/7°C at 35°C ambient.
(3) Based on a unit with a 300mm plenum, for other configurations please see Airedale.

⚠CAUTION The sound pressure data quoted is only valid in free field conditions, where the unit is installed on a reflective base. If the equipment is placed adjacent to a reflective wall, values may vary to those stated, typically increasing by 3dB for each side added.

Technical Data

Sound Data

EC Fans

	Sound Measurement	Frequency (Hz) 63	125	250	500	1000	2000	4000	8000	Overall [dB(A)]
DCC084TX-21SYYY	Power	89.8	93.6	91.8	83.3	83.2	75.4	74.9	70.1	88.2
	Pressure @ 10m	64.6	60.3	58.5	50.1	49.9	42.1	41.6	36.8	55.0
DCC087TX-21SYVV	Power	95.1	93.3	94.2	83.3	82.9	74.8	73.8	81.8	89.5
	Pressure @ 10m	64.5	60.0	60.9	50.1	49.6	41.6	40.5	48.5	56.2
DCC088TX-21SVVV	Power	96.5	93.1	95.0	83.3	82.8	74.5	73.1	83.4	90.0
	Pressure @ 10m	64.5	59.8	61.8	50.0	49.5	41.2	39.8	50.2	56.7
DCC093TX-21SVVW	Power	95.5	95.2	95.5	84.3	83.7	74.5	73.5	81.7	90.4
	Pressure @ 10m	63.4	61.9	62.3	51.1	50.5	41.3	40.2	48.5	57.1
DCC096TX-21SVWW	Power	94.2	96.6	96.0	85.1	84.5	74.6	73.9	78.9	90.8
	Pressure @ 10m	62.1	63.3	62.7	51.9	51.3	41.3	40.6	45.6	57.5
DCC098TX-21SWWW	Power	92.5	97.6	96.4	85.8	85.2	74.6	74.2	68.0	91.1
	Pressure @ 10m	60.1	64.4	63.1	52.6	51.9	41.4	40.9	34.8	57.9
DCF012DR-04JBC0	Power	85.9	78.4	75.5	84.4	83.4	75.4	71.6	62.2	86.3
	Pressure @ 10m	53.8	46.3	43.4	52.3	51.2	43.3	39.5	30.1	54.2
DCF017DR-04JGG0	Power	82.8	82.1	80.5	79.0	82.1	76.5	74.8	65.9	85.1
	Pressure @ 10m	51.4	50.0	48.4	46.9	50.0	44.4	42.7	33.8	52.9
DCF012DR-06JBC0	Power	88.9	76.8	72.3	84.3	83.3	75.3	71.6	62.1	86.2
	Pressure @ 10m	56.6	44.5	40.0	52.0	51.0	43.0	39.3	29.9	53.9
DCF018DR-06JGG0	Power	87.5	80.3	77.2	77.5	81.5	76.1	74.7	65.7	84.3
	Pressure @ 10m	55.3	48.1	45.0	45.2	49.2	43.9	42.4	33.4	52.1
DCF023DR-06JJK0	Power	86.0	82.6	80.8	87.6	86.5	78.6	74.7	65.4	89.5
	Pressure @ 10m	54.0	50.4	48.5	55.3	54.3	46.3	42.4	33.1	57.2
DCF029DR-06KKL0	Power	83.6	84.7	83.4	90.3	88.9	80.3	75.9	66.1	91.9
	Pressure @ 10m	53.3	52.5	51.1	58.1	56.6	48.0	43.6	33.9	59.6
DCF024DR-08JJK0	Power	89.0	81.4	78.5	87.4	86.4	78.4	74.6	65.2	89.3
	Pressure @ 10m	56.6	49.0	46.1	55.0	54.0	46.0	42.2	32.8	56.9
DCF030DR-08KKL0	Power	87.4	83.3	81.4	90.2	88.7	80.0	75.7	65.7	91.6
	Pressure @ 10m	55.2	50.9	49.0	57.8	56.3	47.6	43.3	33.3	59.2
DCF036DR-08KLR0	Power	85.7	85.2	83.8	91.3	89.7	81.1	76.9	67.3	92.7
	Pressure @ 10m	54.3	52.8	51.4	58.9	57.3	48.7	44.5	34.9	60.3
DCF039DR-08KRR0	Power	84.3	86.1	84.9	92.1	90.2	81.8	77.9	69.4	93.4
	Pressure @ 10m	54.1	53.7	52.5	59.7	57.8	49.4	45.5	37.0	61.0
DCF045DR-08LXX0	Power	96.2	96.9	91.7	85.8	85.3	80.9	78.9	66.7	90.4
	Pressure @ 10m	65.0	64.4	59.2	53.4	52.9	48.5	46.5	34.3	58.0
DCF036DR-10KLR0	Power	88.5	84.1	82.1	91.2	89.5	80.9	76.7	67.1	92.5
	Pressure @ 10m	56.1	51.6	49.6	58.6	57.0	48.4	44.2	34.5	60.0
DCF040DR-10KRR0	Power	87.6	85.0	83.2	92.0	90.0	81.6	77.8	69.1	93.2
	Pressure @ 10m	55.4	52.4	50.7	59.5	57.5	49.1	45.2	36.6	60.7
DCF046DR-10LXX0	Power	96.2	96.4	91.0	84.8	83.6	79.3	78.6	65.6	89.4
	Pressure @ 10m	64.2	63.9	58.4	52.2	51.1	46.8	46.0	33.0	56.8
DCF047DR-10KSS0	Power	86.0	86.7	85.4	92.1	91.0	82.2	77.3	65.6	93.8
	Pressure @ 10m	54.9	54.2	52.9	59.5	58.5	49.7	44.8	33.0	61.3
DCF049DR-10KSQ0	Power	85.8	87.5	85.7	95.2	91.1	86.7	79.7	69.9	95.7
	Pressure @ 10m	55.3	55.0	53.2	62.6	58.6	54.1	47.2	37.3	63.2
DCF053DR-09MXY0	Power	94.0	95.9	91.7	87.3	86.5	81.9	80.4	68.9	91.3
	Pressure @ 10m	65.2	63.3	59.2	54.8	53.9	49.4	47.9	36.3	58.8
DCF061DR-10MYY0	Power	88.8	94.5	91.8	88.4	87.3	82.6	81.5	70.3	92.0
	Pressure @ 10m	65.4	61.9	59.2	55.9	54.8	50.1	48.9	37.8	59.4
DCF063DR-10MYV0	Power	92.9	94.8	93.2	88.7	87.5	82.9	80.9	79.1	92.4
	Pressure @ 10m	65.7	62.2	60.6	56.1	54.9	50.4	48.3	46.5	59.9

(1) dB(A) is the overall sound level, measured on the A scale.
(2) All sound data measured at nominal conditions: Water in/out 12/7°C at 35°C ambient.
(3) Based on a unit with a 300mm plenum, for other configurations please see Airedale.

⚠CAUTION	The sound pressure data quoted is only valid in free field conditions, where the unit is installed on a reflective base. If the equipment is placed adjacent to a reflective wall, values may vary to those stated, typically increasing by 3dB for each side added.

Technical Data

Sound Data

EC Fans

	Sound Measurement	Frequency (Hz) 63	125	250	500	1000	2000	4000	8000	Overall [dB(A)]
DCF047DR-12LXX0	Power	96.2	96.3	90.5	84.1	82.5	78.7	78.4	65.0	88.7
	Pressure @ 10m	63.8	63.6	57.9	51.4	49.8	46.0	45.7	32.3	56.1
DCF048DR-12KSS0	Power	88.5	85.8	84.0	91.9	90.9	82.0	77.2	65.0	93.7
	Pressure @ 10m	56.1	53.1	51.4	59.3	58.2	49.3	44.5	32.4	61.0
DCF049DR-12KSQ0	Power	88.3	86.7	84.3	95.1	91.0	86.6	79.6	69.7	95.6
	Pressure @ 10m	56.2	54.0	51.7	62.5	58.3	53.9	46.9	37.0	62.9
DCF054DR-11MXY0	Power	93.9	95.2	91.0	86.5	85.1	80.3	80.1	68.2	90.3
	Pressure @ 10m	64.2	62.5	58.3	53.8	52.4	47.6	47.4	35.5	57.6
DCF061DR-12MYY0	Power	88.3	93.4	90.9	87.6	86.0	80.9	81.2	69.7	90.9
	Pressure @ 10m	64.3	60.7	58.2	54.9	53.3	48.2	48.5	37.0	58.2
DCF064DR-12MYV0	Power	92.7	93.7	92.6	87.9	86.3	81.1	80.6	79.0	91.5
	Pressure @ 10m	64.5	61.1	59.9	55.3	53.7	48.4	47.9	46.3	58.8
DCF068TR-11RNXX	Power	97.2	97.7	93.7	88.0	87.2	82.8	80.5	77.4	92.4
	Pressure @ 10m	66.2	65.0	61.0	55.4	54.5	50.1	47.8	44.7	59.7
DCF070TR-12RXXX	Power	98.0	98.7	93.5	87.7	87.1	82.8	80.7	68.5	92.3
	Pressure @ 10m	66.5	66.0	60.8	55.0	54.5	50.1	48.0	35.9	59.6
DCF055DR-13MXY0	Power	93.8	94.9	90.5	85.9	84.1	79.6	80.0	67.7	89.7
	Pressure @ 10m	63.8	62.1	57.7	53.1	51.3	46.8	47.2	34.9	56.9
DCF062DR-14MYY0	Power	88.2	92.9	90.4	87.2	85.3	80.3	81.1	69.4	90.4
	Pressure @ 10m	63.9	60.1	57.6	54.4	52.5	47.5	48.3	36.6	57.6
DCF065DR-14MYV0	Power	92.6	93.1	92.2	87.4	85.4	80.0	80.4	78.9	90.8
	Pressure @ 10m	63.9	60.3	59.4	54.6	52.6	47.2	47.6	46.1	58.1
DCF069TR-14RNXX	Power	97.1	97.2	93.2	87.2	85.9	81.2	80.2	77.3	91.4
	Pressure @ 10m	65.4	64.4	60.4	54.4	53.1	48.4	47.4	44.5	58.7
DCF077TR-13RXXY	Power	96.6	98.0	93.5	88.7	87.9	83.4	81.7	70.1	92.8
	Pressure @ 10m	66.6	65.2	60.7	55.9	55.1	50.6	48.9	37.3	60.0
DCF084TR-14RXYY	Power	94.6	97.2	93.5	89.5	88.5	83.9	82.6	71.2	93.3
	Pressure @ 10m	66.7	64.4	60.7	56.7	55.7	51.1	49.8	38.4	60.5
DCF071TR-15RXXX	Power	98.0	98.2	92.8	86.6	85.5	81.2	80.3	67.4	91.2
	Pressure @ 10m	65.6	65.3	59.9	53.6	52.5	48.2	47.4	34.5	58.2
DCF078TR-16RXXY	Power	96.5	97.4	92.8	87.7	86.5	81.8	81.4	69.2	91.8
	Pressure @ 10m	65.7	64.5	59.9	54.8	53.6	48.9	48.5	36.3	58.9
DCF091TR-15RYYY	Power	90.5	96.3	93.5	90.2	89.1	84.4	83.3	72.1	93.7
	Pressure @ 10m	66.8	63.3	60.6	57.2	56.2	51.5	50.3	39.1	60.8
DCF095TR-15RYVV	Power	95.4	96.6	95.3	90.5	89.2	84.7	82.4	81.9	94.3
	Pressure @ 10m	67.1	63.7	62.4	57.6	56.3	51.8	49.5	49.0	61.4
DCF098TR-15RVVV	Power	96.7	96.8	96.0	90.7	89.3	84.9	81.9	83.5	94.5
	Pressure @ 10m	67.3	63.9	63.1	57.7	56.4	51.9	49.0	50.6	61.6
DCF101TR-15RVVW	Power	95.8	97.8	96.4	91.7	89.8	84.9	82.4	81.9	95.0
	Pressure @ 10m	66.7	64.9	63.4	58.8	56.9	52.0	49.5	49.0	62.1
DCF104TR-15RVWW	Power	94.6	98.7	96.7	92.6	90.2	84.9	82.9	79.2	95.4
	Pressure @ 10m	66.0	65.8	63.8	59.7	57.3	52.0	50.0	46.3	62.5
DCF107TR-15RWWW	Power	93.1	99.4	97.0	93.3	90.7	85.0	83.3	70.9	95.8
	Pressure @ 10m	65.3	66.5	64.1	60.4	57.7	52.1	50.4	38.0	62.9
DCF070TR-17RNXX	Power	97.1	96.9	92.7	86.5	84.5	80.1	79.9	77.2	90.7
	Pressure @ 10m	64.7	63.9	59.6	53.4	51.5	47.1	46.9	44.2	57.7
DCF071TR-18RXXX	Power	97.9	98.0	92.3	85.9	84.3	80.5	80.2	66.8	90.5
	Pressure @ 10m	65.2	65.0	59.3	52.9	51.2	47.4	47.1	33.7	57.5
DCF085TR-17RXYY	Power	94.4	96.5	92.7	88.7	87.3	82.3	82.3	70.5	92.3
	Pressure @ 10m	65.7	63.4	59.7	55.6	54.2	49.3	49.2	37.5	59.3

(1) dB(A) is the overall sound level, measured on the A scale.
(2) All sound data measured at nominal conditions: Water in/out 12/7°C at 35°C ambient.
(3) Based on a unit with a 300mm plenum, for other configurations please see Airedale.

⚠CAUTION	The sound pressure data quoted is only valid in free field conditions, where the unit is installed on a reflective base. If the equipment is placed adjacent to a reflective wall, values may vary to those stated, typically increasing by 3dB for each side added.

Technical Data

Sound Data

EC Fans

	Sound Measurement	Frequency (Hz) 63	125	250	500	1000	2000	4000	8000	Overall [dB(A)]
DCF092TR-18RYYY	Power	90.1	95.1	92.6	89.3	87.8	82.7	83.0	71.4	92.6
	Pressure @ 10m	65.7	62.1	59.6	56.3	54.7	49.6	49.9	38.4	59.6
DCF097TR-18RYVV	Power	95.3	95.6	94.8	89.8	88.2	82.8	82.1	81.9	93.4
	Pressure @ 10m	66.0	62.6	61.8	56.8	55.1	49.8	49.0	48.8	60.4
DCF100TR-18RVVV	Power	96.6	95.8	95.6	90.0	88.4	83.0	81.6	83.5	93.7
	Pressure @ 10m	66.1	62.8	62.5	57.0	55.3	49.9	48.5	50.5	60.7
DCF103TR-18RVVW	Power	95.7	97.4	96.1	91.4	89.3	83.6	82.2	81.9	94.5
	Pressure @ 10m	65.7	64.3	63.1	58.4	56.3	50.6	49.2	48.8	61.5
DCF107TR-18RVWW	Power	94.6	98.5	96.6	92.5	90.1	84.2	82.8	79.2	95.2
	Pressure @ 10m	65.4	65.5	63.6	59.4	57.1	51.2	49.7	46.1	62.2
DCF110TR-18RWWW	Power	93.1	99.4	97.1	93.3	90.8	84.8	83.3	71.0	95.8
	Pressure @ 10m	64.9	66.4	64.0	60.3	57.7	51.7	50.2	37.9	62.8
DCF079TR-19RXXY	Power	96.5	97.2	92.3	87.2	85.4	81.1	81.3	68.8	91.1
	Pressure @ 10m	65.1	64.0	59.1	54.0	52.3	47.9	48.1	35.6	58.0
DCF086TR-20RXYY	Power	94.4	96.1	92.2	88.2	86.3	81.6	82.1	70.1	91.7
	Pressure @ 10m	65.2	62.9	59.1	55.0	53.1	48.4	49.0	37.0	58.5
DCF093TR-21RYYY	Power	90.0	94.7	92.2	89.0	87.0	82.1	82.9	71.2	92.2
	Pressure @ 10m	65.2	61.4	58.9	55.7	53.8	48.8	49.6	37.9	58.9
DCF098TR-21RYVV	Power	95.2	94.9	94.4	89.3	87.2	81.7	81.9	81.8	92.7
	Pressure @ 10m	65.2	61.6	61.1	56.0	53.9	48.4	48.6	48.6	59.5
DCF101TR-21RVVV	Power	96.5	95.1	95.2	89.4	87.3	81.5	81.3	83.5	93.0
	Pressure @ 10m	65.2	61.8	61.9	56.2	54.0	48.3	48.0	50.2	59.8
DCF104TR-21RVVW	Power	95.6	96.7	95.8	90.9	88.3	81.9	81.9	81.8	93.8
	Pressure @ 10m	64.5	63.4	62.5	57.7	55.0	48.7	48.6	48.5	60.6
DCF108TR-21RVWW	Power	94.4	97.9	96.2	92.0	89.1	82.3	82.5	79.1	94.5
	Pressure @ 10m	63.7	64.6	63.0	58.8	55.9	49.1	49.2	45.8	61.2
DCF111TR-21RWWW	Power	92.8	98.8	96.7	92.9	89.8	82.7	82.9	70.1	95.1
	Pressure @ 10m	62.6	65.5	63.4	59.6	56.6	49.4	49.7	36.8	61.8
DCF012DX-06JBC0	Power	89.4	77.3	72.6	73.5	77.5	65.0	65.8	54.8	79.1
	Pressure @ 10m	57.1	45.0	40.3	41.2	45.2	32.7	33.5	22.5	46.9
DCF018DX-06JGG0	Power	88.0	80.8	77.7	74.6	76.5	67.9	69.1	58.6	79.6
	Pressure @ 10m	55.8	48.5	45.4	42.4	44.3	35.6	36.8	26.3	47.3
DCF024DX-08JJK0	Power	89.6	81.6	78.5	77.7	80.7	68.9	68.9	58.1	82.6
	Pressure @ 10m	57.2	49.2	46.1	45.3	48.3	36.5	36.5	25.7	50.2
DCF029DX-08KKL0	Power	89.0	82.4	79.8	79.9	83.1	69.9	69.7	58.7	84.7
	Pressure @ 10m	56.6	50.0	47.4	47.5	50.7	37.5	37.3	26.3	52.3
DCF036DX-10KLR0	Power	89.9	83.4	80.7	80.8	83.9	70.9	70.7	60.0	85.6
	Pressure @ 10m	57.4	50.8	48.2	48.3	51.4	38.3	38.2	27.5	53.0
DCF039DX-10KRR0	Power	89.9	83.4	80.8	81.2	83.9	71.3	71.8	61.8	85.7
	Pressure @ 10m	57.4	50.9	48.2	48.7	51.4	38.8	39.3	29.3	53.2
DCF045DX-10LXX0	Power	96.2	95.8	90.7	79.1	79.6	72.2	70.8	64.4	86.2
	Pressure @ 10m	63.8	63.2	58.1	46.5	47.0	39.7	38.3	31.9	53.7
DCF046DX-12LXX0	Power	96.2	95.8	90.8	79.5	79.9	72.6	71.0	64.5	86.4
	Pressure @ 10m	63.7	63.1	58.1	46.9	47.2	39.9	38.3	31.8	53.8
DCF047DX-12KSS0	Power	90.8	84.2	81.5	81.8	85.5	71.8	71.0	58.2	87.0
	Pressure @ 10m	58.1	51.5	48.9	49.1	52.9	39.1	38.3	25.5	54.3
DCF049DX-12KSQ0	Power	90.8	85.2	81.5	83.8	85.3	75.3	73.7	62.4	87.5
	Pressure @ 10m	58.3	52.5	48.9	51.1	52.6	42.6	41.0	29.7	54.8
DCF053DX-11MXY0	Power	93.8	94.2	90.3	80.3	80.5	72.8	72.1	66.8	86.2
	Pressure @ 10m	63.5	61.5	57.6	47.7	47.8	40.1	39.4	34.1	53.6

(1) dB(A) is the overall sound level, measured on the A scale.
(2) All sound data measured at nominal conditions: Water in/out 12/7°C at 35°C ambient.
(3) Based on a unit with a 300mm plenum, for other configurations please see Airedale.

⚠CAUTION	The sound pressure data quoted is only valid in free field conditions, where the unit is installed on a reflective base. If the equipment is placed adjacent to a reflective wall, values may vary to those stated, typically increasing by 3dB for each side added.

Technical Data

Sound Data

EC Fans

	Sound Measurement	Frequency (Hz) 63	125	250	500	1000	2000	4000	8000	Overall [dB(A)]
DCF060DX-12MYY0	Power	88.0	91.7	89.9	81.3	81.2	73.3	73.1	68.3	86.2
	Pressure @ 10m	63.4	59.0	57.2	48.6	48.5	40.7	40.4	35.6	53.6
DCF062DX-12MYV0	Power	92.5	91.5	91.9	81.3	81.0	72.9	72.3	78.8	87.3
	Pressure @ 10m	63.3	58.8	59.2	48.6	48.3	40.2	39.6	46.2	54.6
DCF054DX-13MXY0	Power	93.8	94.3	90.4	80.7	80.7	73.2	72.2	66.8	86.4
	Pressure @ 10m	63.5	61.5	57.6	47.9	47.9	40.4	39.4	34.0	53.7
DCF061DX-14MYY0	Power	88.1	91.8	90.0	81.6	81.4	73.7	73.1	68.3	86.4
	Pressure @ 10m	63.3	59.0	57.2	48.8	48.6	40.8	40.3	35.5	53.7
DCF067TX-14RNXX	Power	97.1	96.2	92.7	81.0	81.2	73.5	72.2	77.1	88.0
	Pressure @ 10m	64.7	63.4	59.9	48.2	48.4	40.7	39.4	44.3	55.2
DCF063DX-14MYV0	Power	92.5	91.6	91.9	81.6	81.2	73.2	72.3	78.9	87.4
	Pressure @ 10m	63.2	58.8	59.1	48.8	48.4	40.4	39.5	46.0	54.7
DCF069TX-15RXXX	Power	97.9	97.5	92.4	80.8	81.3	74.0	72.6	66.2	88.0
	Pressure @ 10m	65.2	64.6	59.5	47.9	48.4	41.1	39.7	33.3	55.1
DCF076TX-16RXXY	Power	96.5	96.5	92.2	81.7	82.0	74.4	73.5	67.9	88.0
	Pressure @ 10m	65.1	63.6	59.2	48.8	49.0	41.5	40.6	35.0	55.1
DCF069TX-17RNXX	Power	97.1	96.3	92.8	81.4	81.5	73.9	72.3	77.1	88.2
	Pressure @ 10m	64.5	63.3	59.8	48.4	48.4	40.9	39.3	44.1	55.2
DCF071TX-18RXXX	Power	97.9	97.6	92.5	81.3	81.7	74.4	72.7	66.3	88.2
	Pressure @ 10m	65.1	64.5	59.5	48.3	48.6	41.3	39.7	33.2	55.2
DCF082TX-17RXYY	Power	94.3	95.3	91.9	82.4	82.5	74.8	74.2	69.1	88.0
	Pressure @ 10m	64.9	62.2	58.9	49.4	49.5	41.7	41.2	36.1	55.0
DCF089TX-18RYYY	Power	89.8	93.5	91.6	83.1	83.0	75.1	74.8	70.1	88.0
	Pressure @ 10m	64.8	60.4	58.6	50.0	49.9	42.1	41.8	37.0	55.0
DCF094TX-18RYVV	Power	95.1	93.1	94.1	82.9	82.5	74.3	73.7	81.8	89.3
	Pressure @ 10m	64.7	60.0	61.1	49.9	49.5	41.2	40.6	48.7	56.3
DCF096TX-18RVVV	Power	96.4	93.0	95.0	83.0	82.5	74.1	73.0	83.4	89.9
	Pressure @ 10m	64.7	59.9	61.9	50.0	49.5	41.1	40.0	50.4	56.8
DCF099TX-18RVVW	Power	95.5	95.1	95.5	84.1	83.5	74.2	73.4	81.7	90.3
	Pressure @ 10m	63.6	62.1	62.5	51.1	50.5	41.1	40.4	48.7	57.3
DCF101TX-18RVWW	Power	94.2	96.5	95.9	85.0	84.4	74.2	73.8	78.9	90.7
	Pressure @ 10m	62.2	63.5	62.9	51.9	51.3	41.2	40.7	45.9	57.6
DCF104TX-18RWWW	Power	92.5	97.6	96.4	85.7	85.1	74.3	74.1	68.0	91.0
	Pressure @ 10m	60.2	64.6	63.3	52.6	52.0	41.2	41.1	34.9	58.0
DCF078TX-19RXXY	Power	96.5	96.6	92.3	82.1	82.2	74.8	73.6	67.9	88.2
	Pressure @ 10m	64.9	63.4	59.1	48.9	49.1	41.6	40.4	34.8	55.1
DCF084TX-20RXYY	Power	94.3	95.3	92.0	82.8	82.7	75.1	74.3	69.2	88.2
	Pressure @ 10m	64.8	62.2	58.9	49.6	49.6	41.9	41.1	36.0	55.1
DCF091TX-21RYYY	Power	89.8	93.6	91.8	83.3	83.2	75.4	74.9	70.1	88.2
	Pressure @ 10m	64.6	60.3	58.5	50.1	49.9	42.1	41.6	36.8	55.0
DCF096TX-21RYVV	Power	95.1	93.3	94.2	83.3	82.9	74.8	73.8	81.8	89.5
	Pressure @ 10m	64.5	60.0	60.9	50.1	49.6	41.6	40.5	48.5	56.2
DCF098TX-21RVVV	Power	96.5	93.1	95.0	83.3	82.8	74.5	73.1	83.4	90.0
	Pressure @ 10m	64.5	59.8	61.8	50.0	49.5	41.2	39.8	50.2	56.7
DCF101TX-21RVVW	Power	95.5	95.2	95.5	84.3	83.7	74.5	73.5	81.7	90.4
	Pressure @ 10m	63.4	61.9	62.3	51.1	50.5	41.3	40.2	48.5	57.1
DCF104TX-21RVWW	Power	94.2	96.6	96.0	85.1	84.5	74.6	73.9	78.9	90.8
	Pressure @ 10m	62.1	63.3	62.7	51.9	51.3	41.3	40.6	45.6	57.5
DCF108TX-21RWWW	Power	92.5	97.6	96.4	85.8	85.2	74.6	74.2	68.0	91.1
	Pressure @ 10m	60.1	64.4	63.1	52.6	51.9	41.4	40.9	34.8	57.9

(1) dB(A) is the overall sound level, measured on the A scale.
(2) All sound data measured at nominal conditions: Water in/out 12/7°C at 35°C ambient.
(3) Based on a unit with a 300mm plenum, for other configurations please see Airedale.

⚠CAUTION The sound pressure data quoted is only valid in free field conditions, where the unit is installed on a reflective base. If the equipment is placed adjacent to a reflective wall, values may vary to those stated, typically increasing by 3dB for each side added.

Technical Data

Hydronic Data

Evaporator Pressure Drop References

Use the following tables to determine the correct Evaporator Pressure Drop Curve for selected units.

Units	Evap No.
DCC011DR-04JBC0	1
DCC016DR-04JGG0	3
DCC021DR-04JJK0	5
DCC026DR-04KKL0	7
DCC011DR-06JBC0	1
DCC016DR-06JGG0	3
DCC021DR-06JJK0	5
DCC027DR-06KKL0	7
DCC032DR-06KLR0	8
DCC036DR-06KRR0	9
DCC022DR-08JJK0	5
DCC027DR-08KKL0	7
DCC033DR-08KLR0	8
DCC036DR-08KRR0	9
DCC043DR-08LXX0	11
DCC043DR-08KSS0	10
DCC045DR-08KSQ0	10
DCC033DR-10KLR0	8
DCC037DR-10KRR0	9
DCC043DR-10LXX0	11
DCC044DR-10KSS0	10
DCC045DR-10KSQ0	10
DCC048DR-09NXY0	13
DCC056DR-10NYY0	12
DCC057DR-10NYV0	14
DCC044DR-12LXX0	11
DCC044DR-12KSS0	10
DCC046DR-12KSQ0	10
DCC049DR-11NXY0	13
DCC056DR-12NYY0	12
DCC058DR-12NYV0	14
DCC062TR-11PNXX	19
DCC063TR-12PXXX	20
DCC049DR-13NXY0	13
DCC057DR-14NYY0	12
DCC059DR-14NYV0	14
DCC063TR-14PNXX	19
DCC068TR-13PXXY	20
DCC076TR-14SXYY	24
DCC063TR-15PXXX	20
DCC069TR-16PXXY	20
DCC083TR-15SYYY	25
DCC086TR-15SYVV	27
DCC088TR-15SVVV	27
DCC092TR-15SVVW	28
DCC095TR-15SVWW	28
DCC098TR-15SWWW	28
DCC064TR-17PNXX	19
DCC064TR-18PXXX	20
DCC076TR-17SXYY	24

Units	Evap No.
DCC084TR-18SYYY	25
DCC087TR-18SYVV	27
DCC089TR-18SVVV	27
DCC094TR-18SVVW	28
DCC097TR-18SVWW	28
DCC100TR-18SWWW	28
DCC070TR-19PXXY	20
DCC077TR-20SXYY	24
DCC085TR-21SYYY	25
DCC088TR-21SYVV	27
DCC090TR-21SVVV	27
DCC094TR-21SVVW	28
DCC098TR-21SVWW	28
DCC101TR-21SWWW	28
DCC011DX-06JBC0	1
DCC016DX-06JGG0	3
DCC021DX-06JJK0	5
DCC026DX-06KKL0	7
DCC022DX-08JJK0	5
DCC027DX-08KKL0	7
DCC032DX-08KLR0	8
DCC035DX-08KRR0	9
DCC033DX-10KLR0	8
DCC036DX-10KRR0	9
DCC043DX-10LXX0	11
DCC043DX-10KSS0	10
DCC044DX-10KSQ0	10
DCC044DX-12LXX0	11
DCC044DX-12KSS0	10
DCC045DX-12KSQ0	10
DCC048DX-11NXY0	13
DCC055DX-12NYY0	12
DCC057DX-12NYV0	14
DCC049DX-13NXY0	13
DCC056DX-14NYY0	12
DCC058DX-14NYV0	14
DCC062TX-14PNXX	19
DCC063TX-15PXXX	20
DCC068TX-16PXXY	20
DCC063TX-17PNXX	19
DCC064TX-18PXXX	20
DCC075TX-17SXYY	24
DCC083TX-18SYYY	25
DCC085TX-18SYVV	27
DCC087TX-18SVVV	27
DCC091TX-18SVVW	28
DCC093TX-18SVWW	28
DCC096TX-18SWWW	28
DCC070TX-19PXXY	20
DCC077TX-20SXYY	24

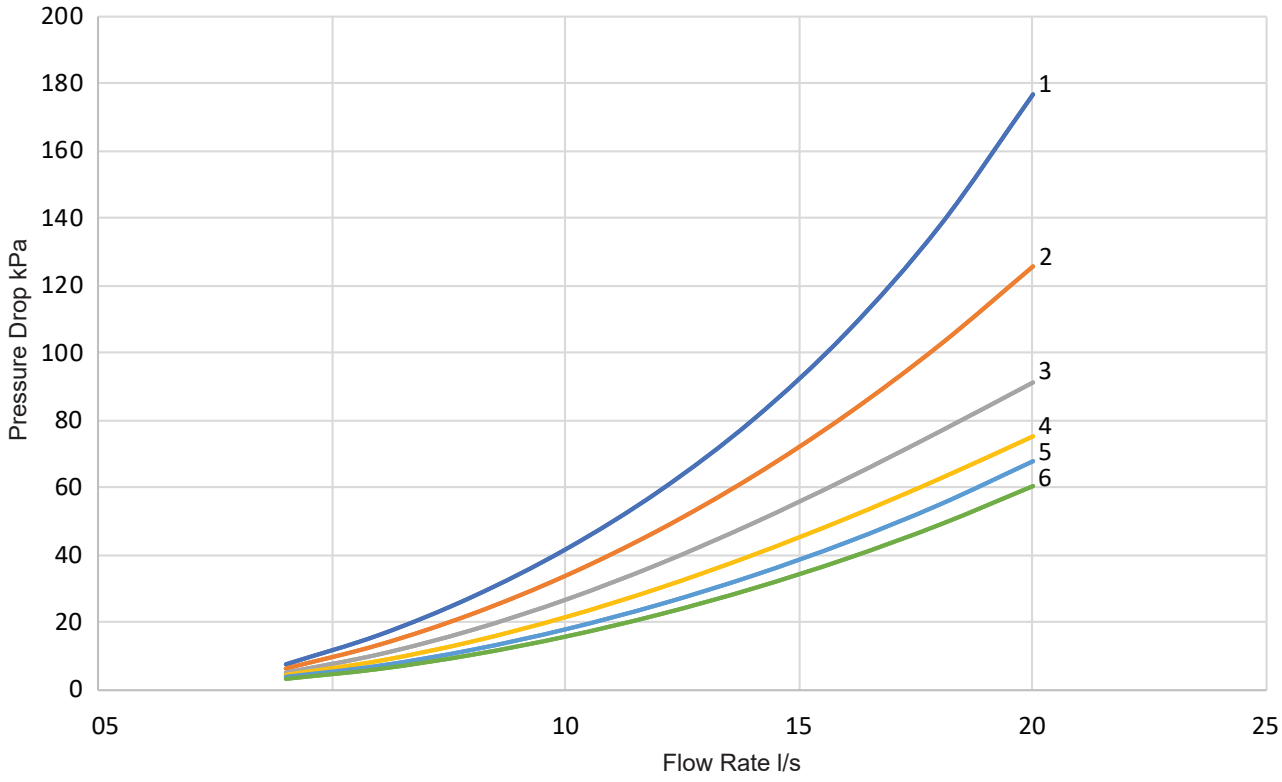
Units	Evap No.
DCC084TX-21SYYY	25
DCC087TX-21SYVV	27
DCC088TX-21SVVV	27
DCC093TX-21SVVW	28
DCC096TX-21SVWW	28
DCC098TX-21SWWW	28
DCF012DR-04JBC0	2
DCF017DR-04JGG0	4
DCF012DR-06JBC0	2
DCF018DR-06JGG0	4
DCF023DR-06JJK0	6
DCF029DR-06KKL0	8
DCF024DR-08JJK0	6
DCF030DR-08KKL0	8
DCF036DR-08KLR0	9
DCF039DR-08KRR0	9
DCF045DR-08LXX0	15
DCF036DR-10KLR0	9
DCF040DR-10KRR0	9
DCF046DR-10LXX0	15
DCF047DR-10KSS0	10
DCF049DR-10KSQ0	10
DCF053DR-09MXY0	16
DCF061DR-10MYY0	17
DCF063DR-10MYV0	18
DCF047DR-12LXX0	15
DCF048DR-12KSS0	10
DCF049DR-12KSQ0	10
DCF054DR-11MXY0	16
DCF061DR-12MYY0	17
DCF064DR-12MYV0	18
DCF068TR-11RNXX	23
DCF070TR-12RXXX	23
DCF055DR-13MXY0	16
DCF062DR-14MYY0	17
DCF065DR-14MYV0	18
DCF069TR-14RNXX	23
DCF077TR-13RXXY	26
DCF084TR-14RXYY	26
DCF071TR-15RXXX	23
DCF078TR-16RXXY	26
DCF091TR-15RYYY	29
DCF095TR-15RYVV	21
DCF098TR-15RVVV	22
DCF101TR-15RVVW	22
DCF104TR-15RVWW	22
DCF107TR-15RWWW	22
DCF070TR-17RNXX	23
DCF071TR-18RXXX	23
DCF085TR-17RXYY	26

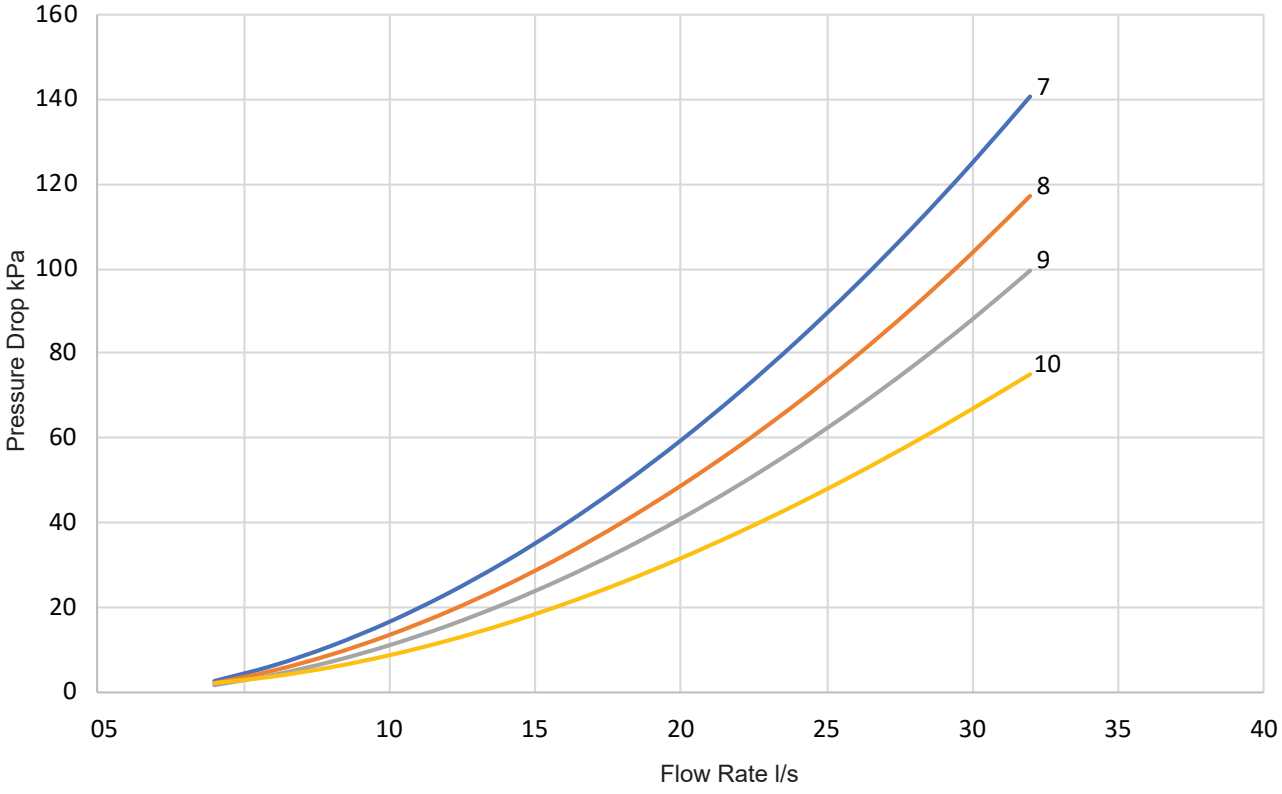
Units	Evap No.
DCF092TR-18RYYY	29
DCF097TR-18RYVV	21
DCF100TR-18RVVV	22
DCF103TR-18RVVW	22
DCF107TR-18RVWW	22
DCF110TR-18RWWW	22
DCF079TR-19RXXY	26
DCF086TR-20RXYY	26
DCF093TR-21RYYY	29
DCF098TR-21RYVV	21
DCF101TR-21RVVV	22
DCF104TR-21RVVW	22
DCF108TR-21RVWW	22
DCF111TR-21RWWW	22
DCF012DX-06JBC0	2
DCF018DX-06JGG0	4
DCF024DX-08JJK0	6
DCF029DX-08KKL0	8
DCF036DX-10KLR0	9
DCF039DX-10KRR0	9
DCF045DX-10LXX0	15
DCF046DX-12LXX0	15
DCF047DX-12KSS0	10
DCF049DX-12KSQ0	10
DCF053DX-11MXY0	16
DCF060DX-12MYY0	17
DCF062DX-12MYV0	18
DCF054DX-13MXY0	16
DCF061DX-14MYY0	17
DCF067TX-14RNXX	23
DCF063DX-14MYV0	18
DCF069TX-15RXXX	23
DCF076TX-16RXXY	26
DCF069TX-17RNXX	23
DCF071TX-18RXXX	23
DCF082TX-17RXYY	26
DCF089TX-18RYYY	29
DCF094TX-18RYVV	21
DCF096TX-18RVVV	22
DCF099TX-18RVVW	22
DCF101TX-18RVWW	22
DCF104TX-18RWWW	22
DCF078TX-19RXXY	26
DCF084TX-20RXYY	26
DCF091TX-21RYYY	29
DCF096TX-21RYVV	21
DCF098TX-21RVVV	22
DCF101TX-21RVVW	22
DCF104TX-21RVWW	22
DCF108TX-21RWWW	22

Technical Data

Hydronic Data

Evaporator Pressure Drop - 100% Water

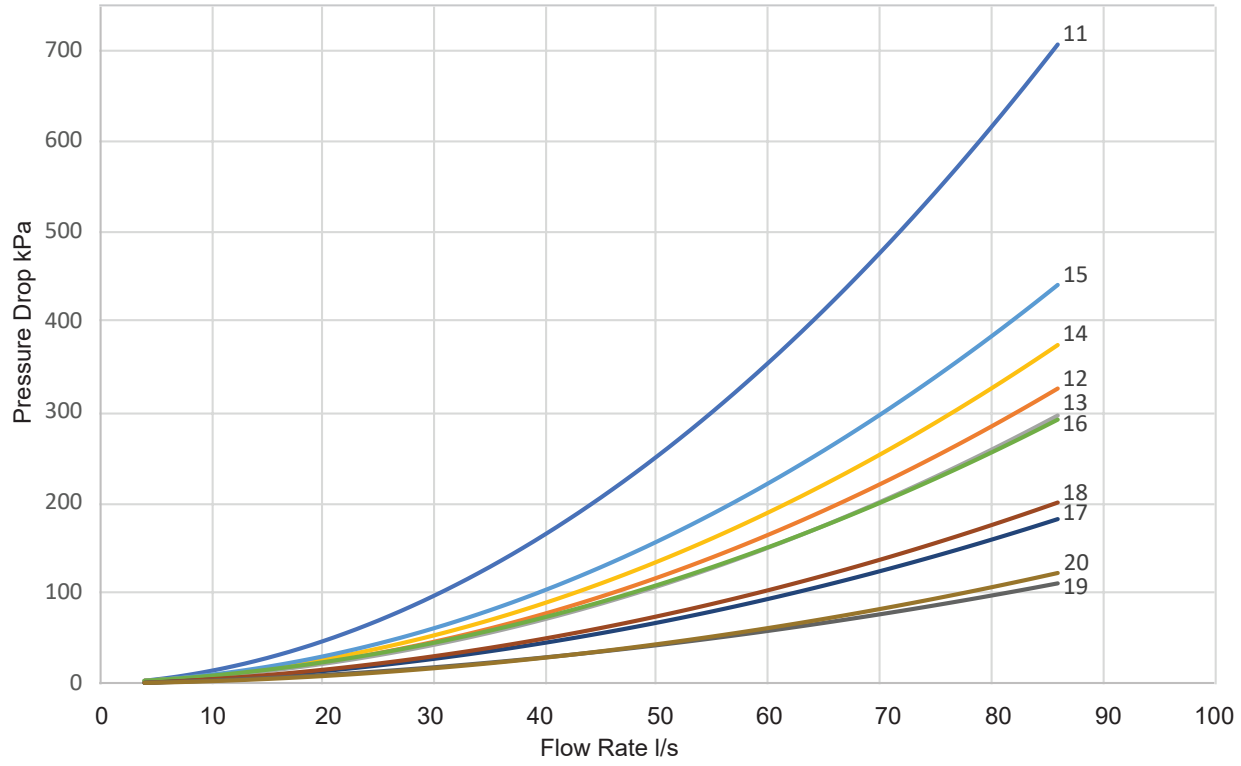


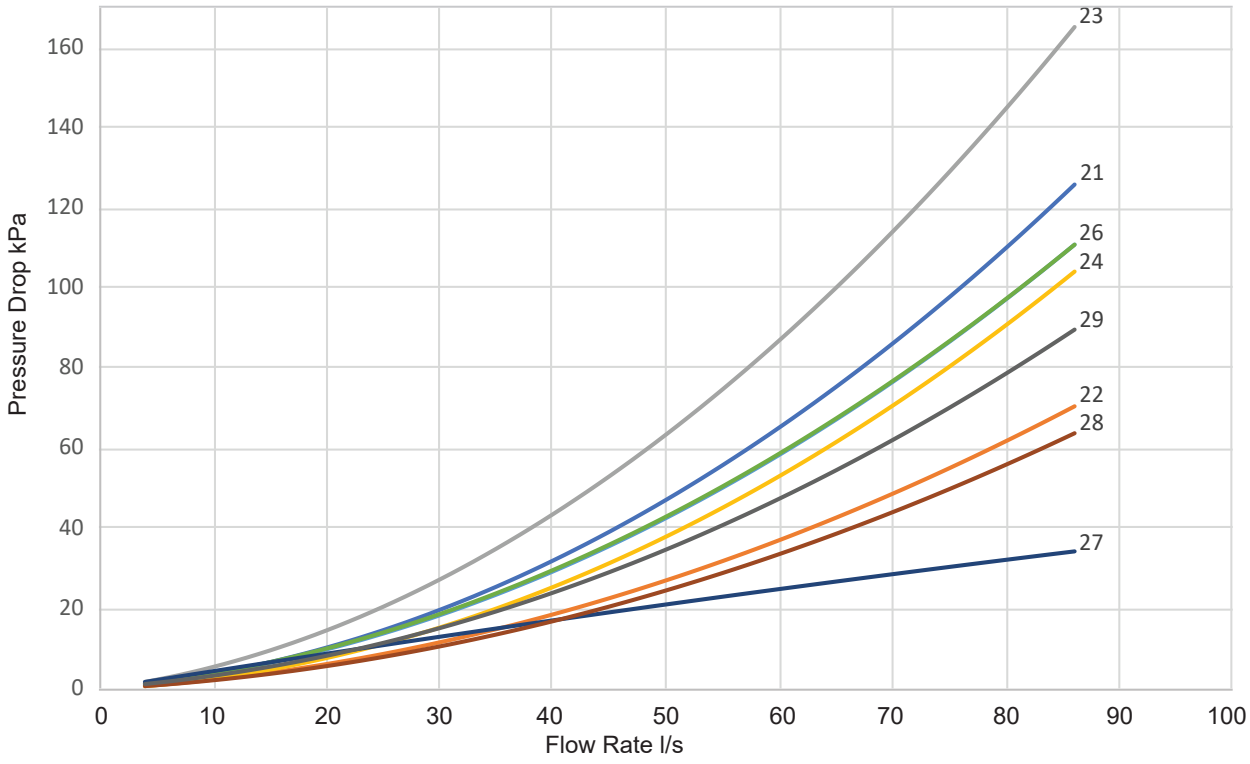


Technical Data

Hydronic Data

Evaporator Pressure Drop - 100% Water

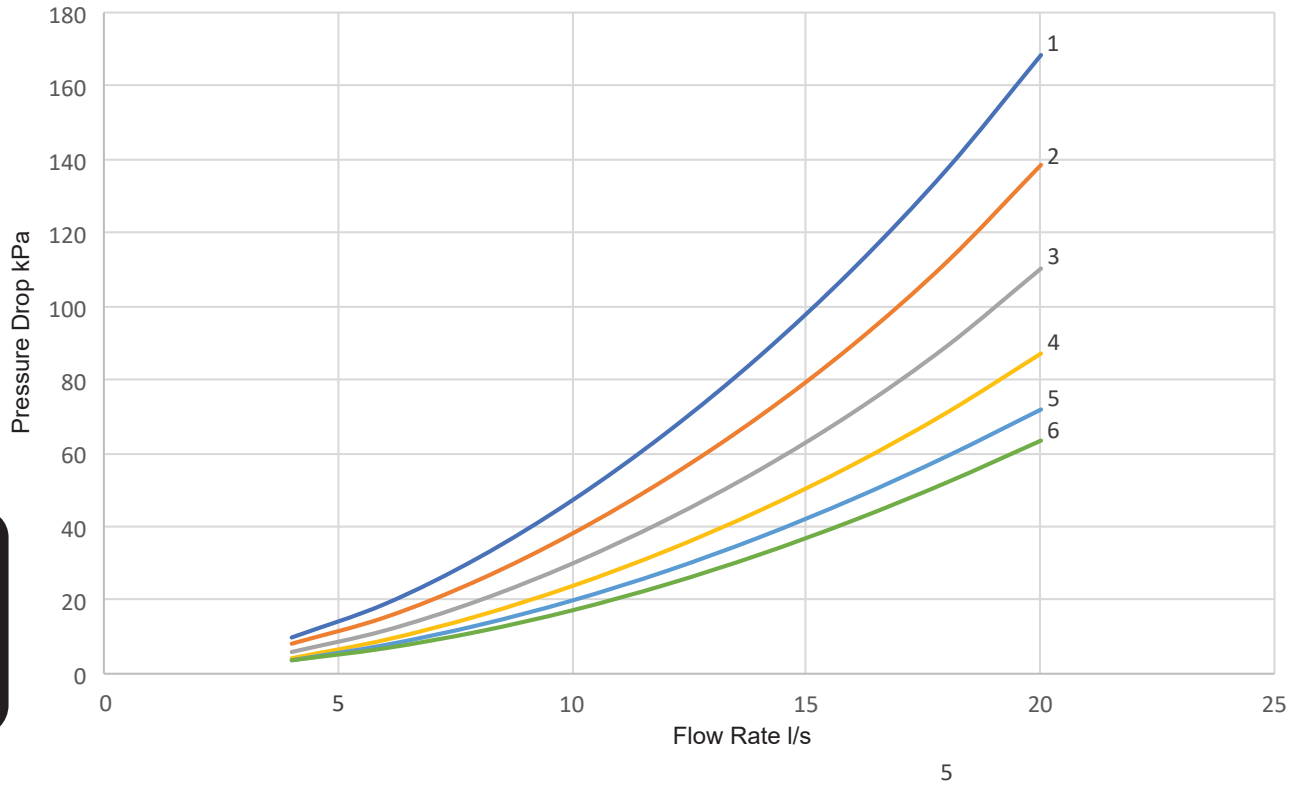




Technical Data

Hydronic Data

Evaporator Pressure Drop - 20% Ethylene Glycol



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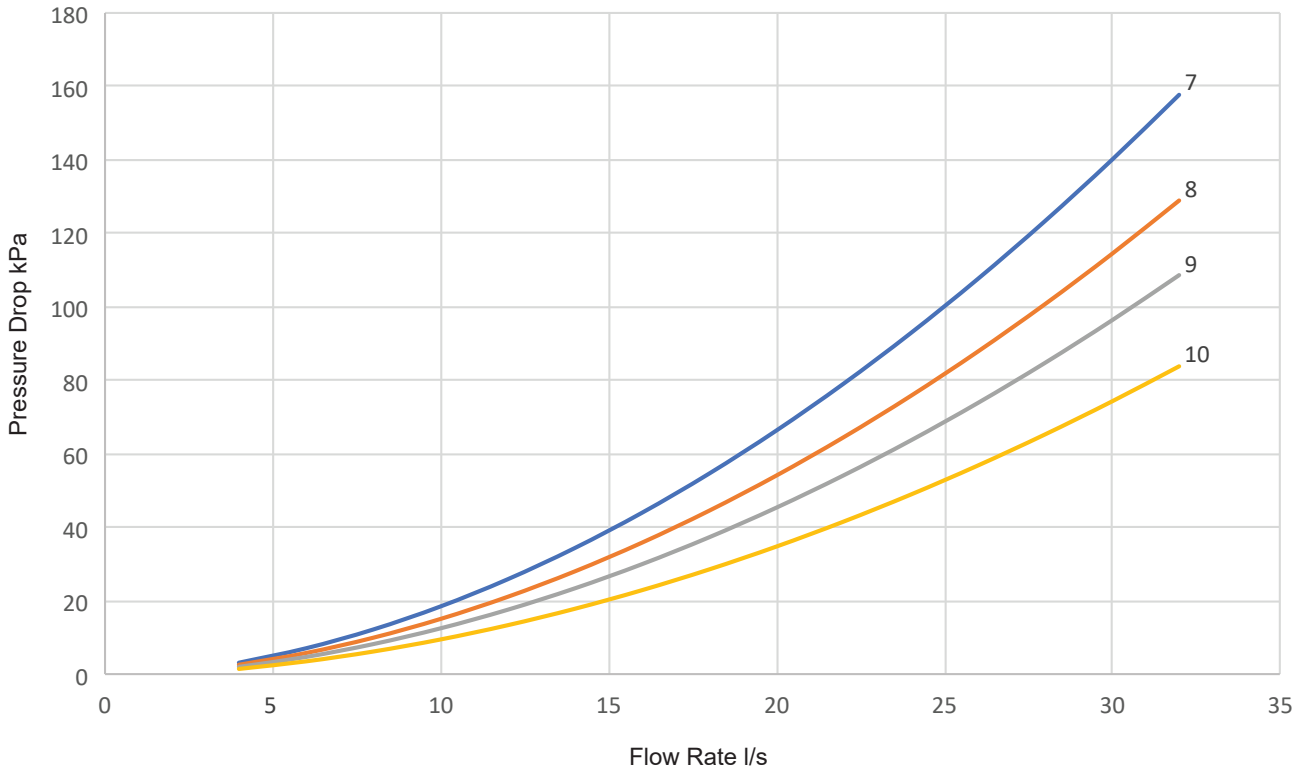
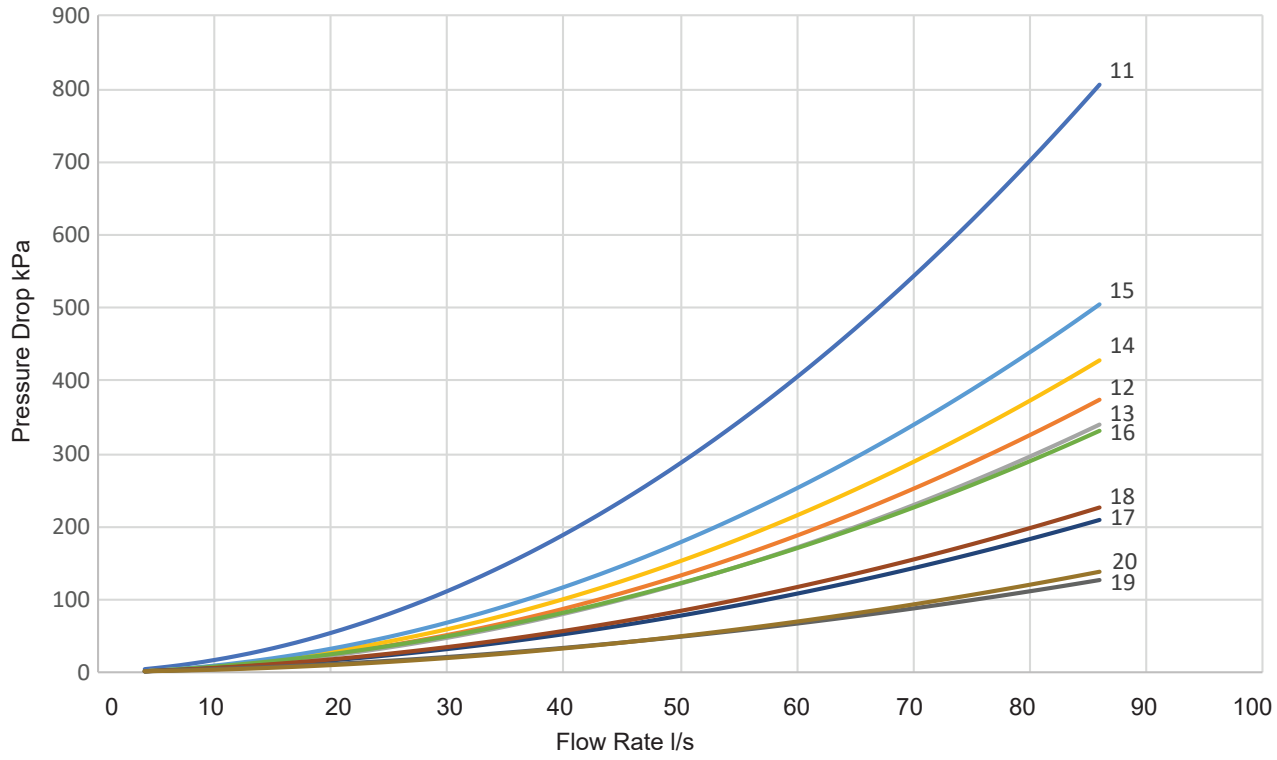
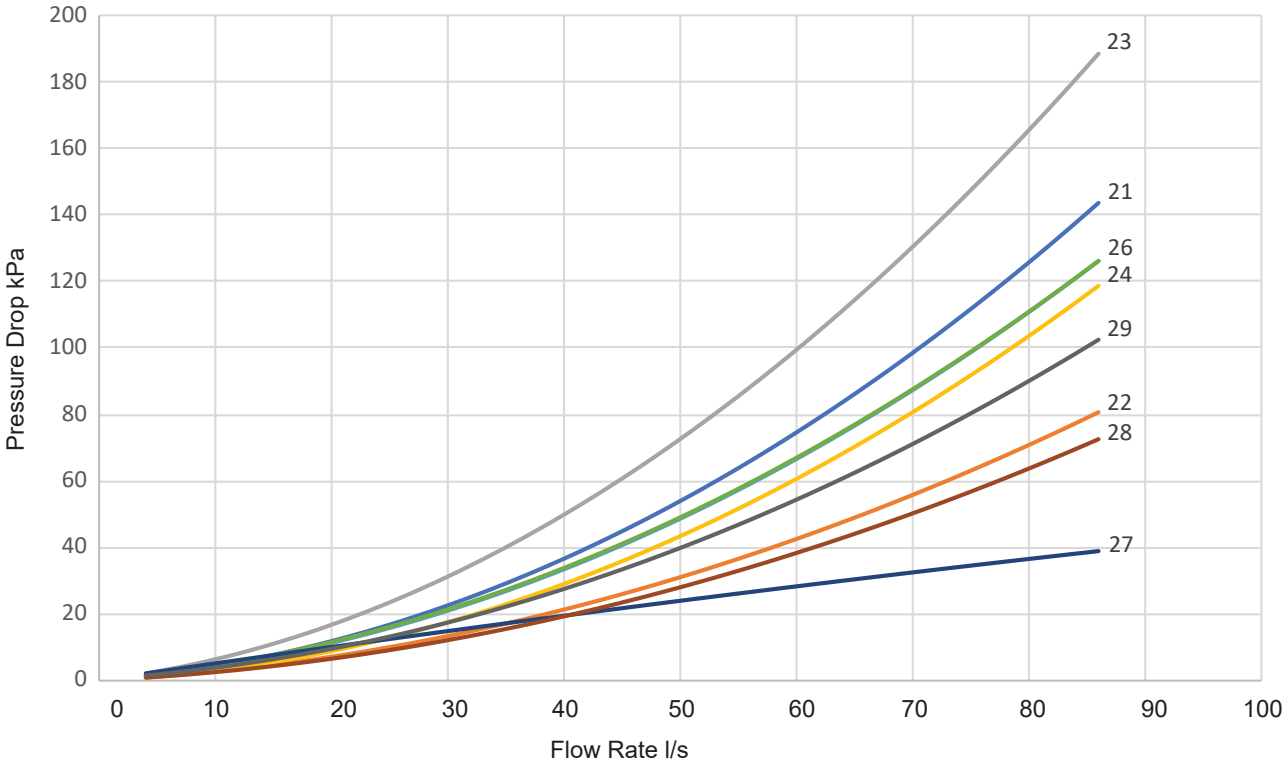


Technical Data

Hydronic Data

Evaporator Pressure Drop - 20% Ethylene Glycol





Pump Performance Curves

Use the following tables to determine the correct Pump Performance Curve for selected units.

Unit	Standard SH	Standard HH	Inverter SH	Inverter HH
DCC011DR-04JBC0	4	1	11	12
DCC016DR-04JGG0	4	1	11	12
DCC021DR-04JJK0	5	6	11	12
DCC026DR-04KKL0	5	6	18	16
DCC011DR-06JBC0	4	1	11	12
DCC016DR-06JGG0	4	1	11	12
DCC021DR-06JJK0	5	6	11	12
DCC027DR-06KKL0	5	6	18	16
DCC032DR-06KLR0	5	6	19	16
DCC036DR-06KRR0	8	9	19	16
DCC022DR-08JJK0	5	6	11	12
DCC027DR-08KKL0	5	6	18	16
DCC033DR-08KLR0	6	8	19	16
DCC036DR-08KRR0	8	9	19	16
DCC043DR-08LXX0	26	19	26	19
DCC043DR-08KSS0	8	9	19	20
DCC045DR-08KSQ0	8	9	19	20
DCC033DR-10KLR0	6	8	19	16
DCC037DR-10KRR0	8	9	19	16
DCC043DR-10LXX0	26	19	26	19
DCC044DR-10KSS0	8	9	19	20
DCC045DR-10KSQ0	8	9	19	20
DCC048DR-09NXY0	26	19	26	19
DCC056DR-10NYY0	26	19	26	19
DCC057DR-10NYV0	26	19	26	19
DCC044DR-12LXX0	26	19	26	19
DCC044DR-12KSS0	8	9	19	20
DCC046DR-12KSQ0	8	9	19	20
DCC049DR-11NXY0	26	19	26	19
DCC056DR-12NYY0	26	19	26	19
DCC058DR-12NYV0	27	19	27	19
DCC062TR-11PNXX	27	22	27	22
DCC063TR-12PXXX	27	22	27	22
DCC049DR-13NXY0	26	19	26	19
DCC057DR-14NYY0	26	19	26	19
DCC059DR-14NYV0	27	19	27	19
DCC063TR-14PNXX	27	22	27	22
DCC068TR-13PXXY	27	22	27	22
DCC076TR-14SXYY	27	22	27	22
DCC063TR-15PXXX	27	22	27	22
DCC069TR-16PXXY	27	22	27	22
DCC083TR-15SYYY	27	22	27	22
DCC086TR-15SYVV	27	22	27	22
DCC088TR-15SVVV	27	22	27	22
DCC092TR-15SVVW	28	22	28	22
DCC095TR-15SVWW	28	22	28	22
DCC098TR-15SWWW	28	22	28	22
DCC064TR-17PNXX	27	22	27	22
DCC064TR-18PXXX	27	22	27	22
DCC076TR-17SXYY	27	22	27	22
DCC084TR-18SYYY	27	22	27	22
DCC087TR-18SYVV	27	22	27	22

Unit	Standard SH	Standard HH	Inverter SH	Inverter HH
DCC089TR-18SVVV	28	22	28	22
DCC094TR-18SVVW	28	22	28	22
DCC097TR-18SVWW	28	22	28	22
DCC100TR-18SWWW	28	22	28	22
DCC070TR-19PXXY	27	22	27	22
DCC077TR-20SXYY	27	22	27	22
DCC085TR-21SYYY	27	22	27	22
DCC088TR-21SYVV	28	22	28	22
DCC090TR-21SVVV	28	22	28	22
DCC094TR-21SVVW	28	22	28	22
DCC098TR-21SVWW	28	22	28	22
DCC101TR-21SWWW	28	22	28	22
DCC011DX-06JBC0	4	1	11	12
DCC016DX-06JGG0	4	1	11	12
DCC021DX-06JJK0	5	6	11	12
DCC026DX-06KKL0	5	6	18	16
DCC022DX-08JJK0	5	6	11	12
DCC027DX-08KKL0	5	6	18	16
DCC032DX-08KLR0	6	8	19	16
DCC035DX-08KRR0	8	9	19	16
DCC033DX-10KLR0	6	8	19	16
DCC036DX-10KRR0	8	9	19	16
DCC043DX-10LXX0	26	19	26	19
DCC043DX-10KSS0	8	9	19	20
DCC044DX-10KSQ0	8	9	19	20
DCC044DX-12LXX0	26	19	26	19
DCC044DX-12KSS0	8	9	19	20
DCC045DX-12KSQ0	8	9	19	20
DCC048DX-11NXY0	26	19	26	19
DCC055DX-12NYY0	26	19	26	19
DCC057DX-12NYV0	27	19	27	19
DCC049DX-13NXY0	26	19	26	19
DCC056DX-14NYY0	26	19	26	19
DCC058DX-14NYV0	26	19	26	19
DCC062TX-14PNXX	27	22	27	22
DCC063TX-15PXXX	27	22	27	22
DCC068TX-16PXXY	27	22	27	22
DCC063TX-17PNXX	27	22	27	22
DCC064TX-18PXXX	27	22	27	22
DCC075TX-17SXYY	27	22	27	22
DCC083TX-18SYYY	27	22	27	22
DCC085TX-18SYVV	27	22	27	22
DCC087TX-18SVVV	27	22	27	22
DCC091TX-18SVVW	28	22	28	22
DCC093TX-18SVWW	28	22	28	22
DCC096TX-18SWWW	28	22	28	22
DCC070TX-19PXXY	27	22	27	22
DCC077TX-20SXYY	27	22	27	22
DCC084TX-21SYYY	27	22	27	22
DCC087TX-21SYVV	27	22	27	22
DCC088TX-21SVVV	28	22	28	22
DCC093TX-21SVVW	28	22	28	22

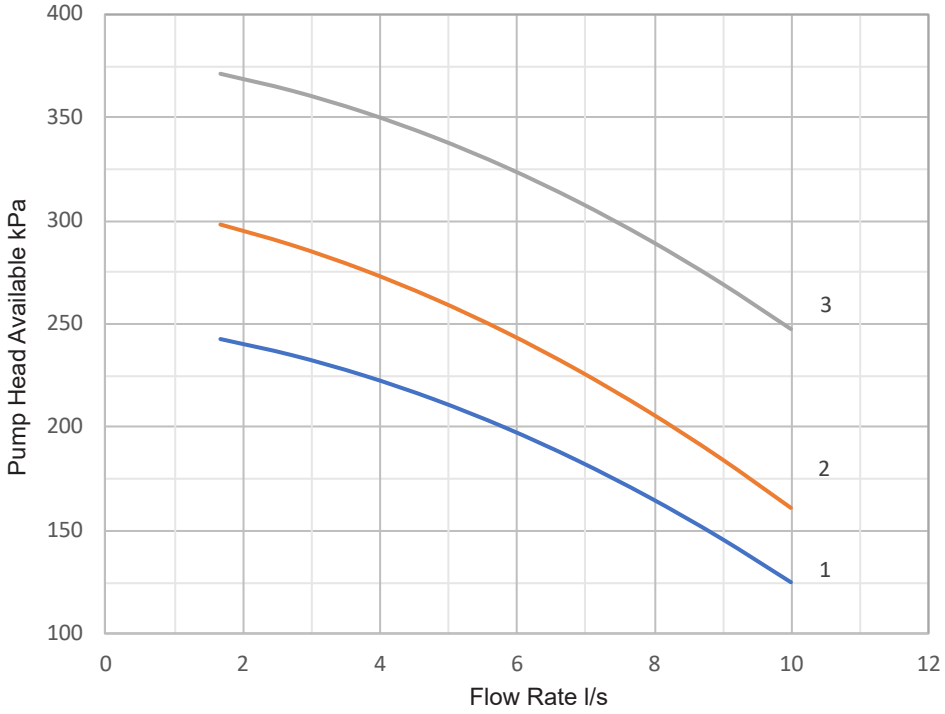
Pump Performance Curves

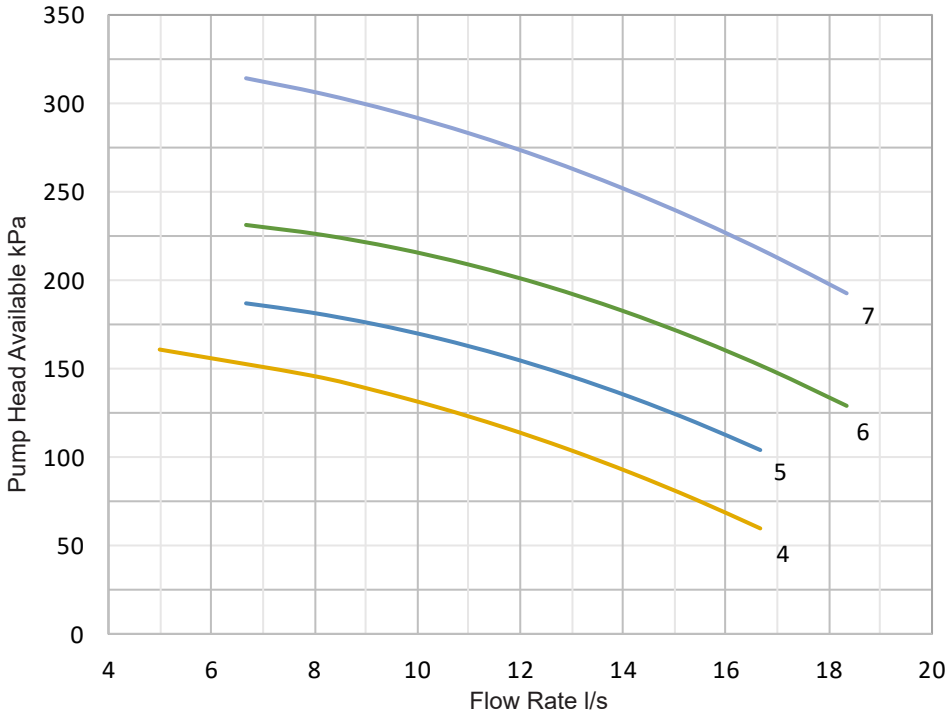
Use the following tables to determine the correct Pump Performance Curve for selected units.

Unit	Standard SH	Standard HH	Inverter SH	Inverter HH
DCC096TX-21SVWW	28	22	28	22
DCC098TX-21SWWW	28	22	28	22
DCF012DR-04JBC0	2	3	12	13
DCF017DR-04JGG0	6	7	12	13
DCF012DR-06JBC0	2	3	12	13
DCF018DR-06JGG0	6	7	12	13
DCF023DR-06JJK0	6	7	13	14
DCF029DR-06KKL0	8	7	16	17
DCF024DR-08JJK0	6	7	13	14
DCF030DR-08KKL0	8	7	16	17
DCF036DR-08KLR0	8	9	16	17
DCF039DR-08KRR0	9	10	20	21
DCF045DR-08LXX0	20	23	20	23
DCF036DR-10KLR0	8	9	16	17
DCF040DR-10KRR0	9	10	20	21
DCF046DR-10LXX0	20	21	20	21
DCF047DR-10KSS0	9	10	20	21
DCF049DR-10KSQ0	9	10	20	21
DCF053DR-09MXY0	22	23	22	23
DCF061DR-10MYY0	22	23	22	23
DCF063DR-10MYV0	22	23	22	23
DCF047DR-12LXX0	20	21	20	21
DCF048DR-12KSS0	9	10	20	21
DCF049DR-12KSQ0	9	10	20	21
DCF054DR-11MXY0	20	21	20	21
DCF061DR-12MYY0	22	23	22	23
DCF064DR-12MYV0	22	23	22	23
DCF068TR-11RNXX	22	23	22	23
DCF070TR-12RXXX	22	23	22	23
DCF055DR-13MXY0	20	21	20	21
DCF062DR-14MYY0	22	23	22	23
DCF065DR-14MYV0	22	23	22	23
DCF069TR-14RNXX	22	23	22	23
DCF077TR-13RXXY	23	24	23	24
DCF084TR-14RXYY	23	24	23	24
DCF071TR-15RXXX	22	23	22	23
DCF078TR-16RXXY	22	23	22	23
DCF091TR-15RYYY	23	24	23	24
DCF095TR-15RYVV	23	24	23	24
DCF098TR-15RVVV	24	25	24	25
DCF101TR-15RVVW	24	25	24	25
DCF104TR-15RVWW	24	25	24	25
DCF107TR-15RWWW	24	25	24	25
DCF070TR-17RNXX	22	23	22	23
DCF071TR-18RXXX	22	23	22	23
DCF085TR-17RXYY	23	24	23	24
DCF092TR-18RYYY	23	24	23	24
DCF097TR-18RYVV	23	24	23	24

Unit	Standard SH	Standard HH	Inverter SH	Inverter HH
DCF100TR-18RVVV	24	25	24	25
DCF103TR-18RVVW	24	25	24	25
DCF107TR-18RVWW	24	25	24	25
DCF110TR-18RWWW	24	25	24	25
DCF079TR-19RXXY	22	23	22	23
DCF086TR-20RXYY	23	24	23	24
DCF093TR-21RYYY	23	24	23	24
DCF098TR-21RYVV	24	25	24	25
DCF101TR-21RVVV	24	25	24	25
DCF104TR-21RVVW	24	25	24	25
DCF108TR-21RVWW	24	25	24	25
DCF111TR-21RWWW	24	25	24	25
DCF012DX-06JBC0	2	3	12	13
DCF018DX-06JGG0	6	7	12	13
DCF024DX-08JJK0	6	7	13	14
DCF029DX-08KKL0	8	7	16	17
DCF036DX-10KLR0	8	9	16	17
DCF039DX-10KRR0	9	10	20	21
DCF045DX-10LXX0	20	21	20	21
DCF046DX-12LXX0	20	21	20	21
DCF047DX-12KSS0	9	10	20	21
DCF049DX-12KSQ0	9	10	20	21
DCF053DX-11MXY0	22	23	22	23
DCF060DX-12MYY0	22	23	22	23
DCF062DX-12MYV0	22	23	22	23
DCF054DX-13MXY0	20	21	20	21
DCF061DX-14MYY0	22	23	22	23
DCF067TX-14RNXX	22	23	22	23
DCF063DX-14MYV0	22	23	22	23
DCF069TX-15RXXX	22	23	22	23
DCF076TX-16RXXY	22	23	22	23
DCF069TX-17RNXX	22	23	22	23
DCF071TX-18RXXX	22	23	22	23
DCF082TX-17RXYY	23	24	23	24
DCF089TX-18RYYY	23	24	23	24
DCF094TX-18RYVV	23	24	23	24
DCF096TX-18RVVV	23	24	23	24
DCF099TX-18RVVW	23	24	23	24
DCF101TX-18RVWW	24	25	24	25
DCF104TX-18RWWW	24	25	24	25
DCF078TX-19RXXY	23	24	23	24
DCF084TX-20RXYY	23	24	23	24
DCF091TX-21RYYY	23	24	23	24
DCF096TX-21RYVV	23	24	23	24
DCF098TX-21RVVV	24	25	24	25
DCF101TX-21RVVW	24	25	24	25
DCF104TX-21RVWW	24	25	24	25
DCF108TX-21RWWW	24	25	24	25

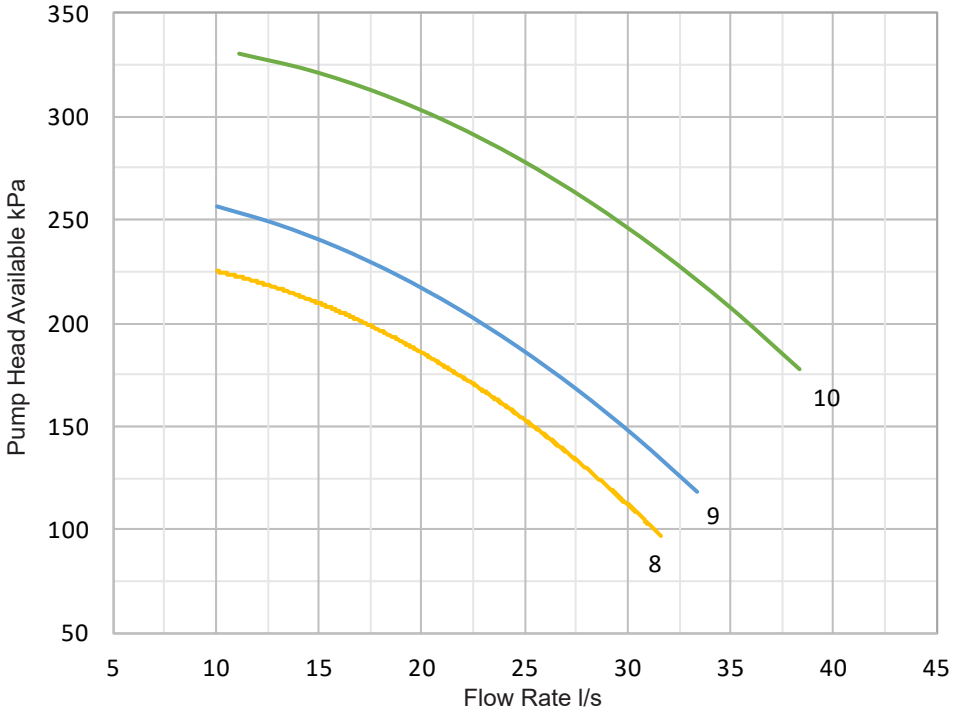
Pump Performance Curves

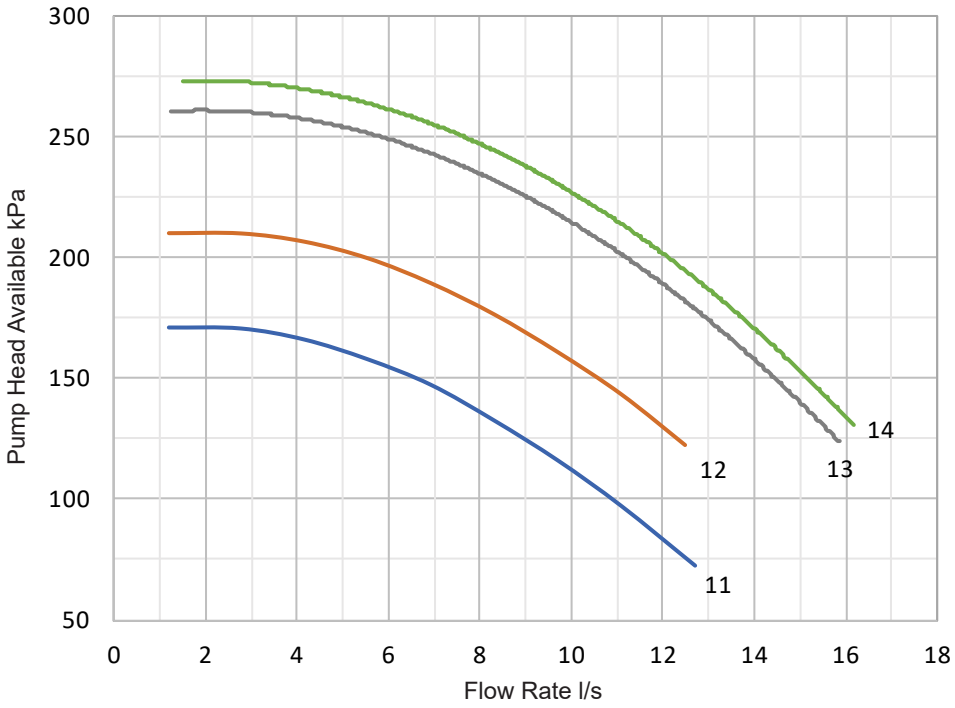




Pump curves based upon water.

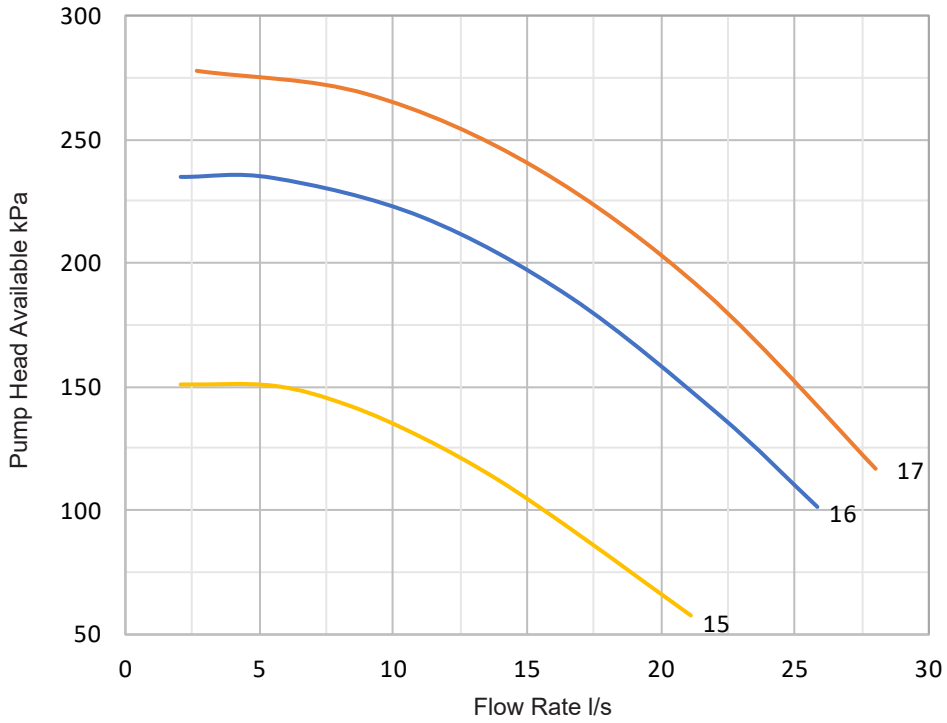
Pump Performance Curves

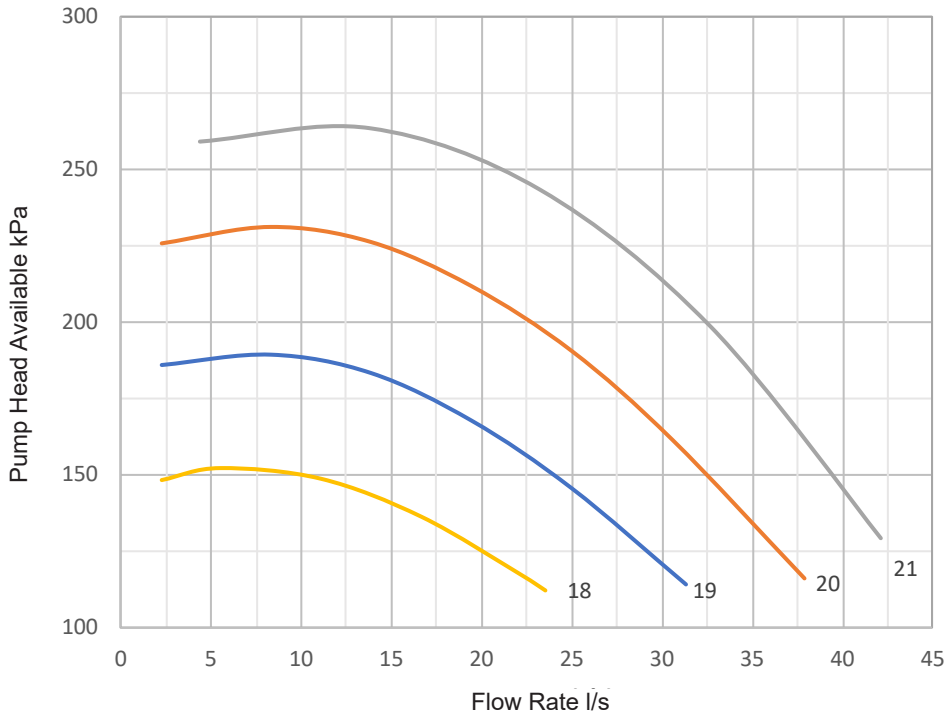




Pump curves based upon water.

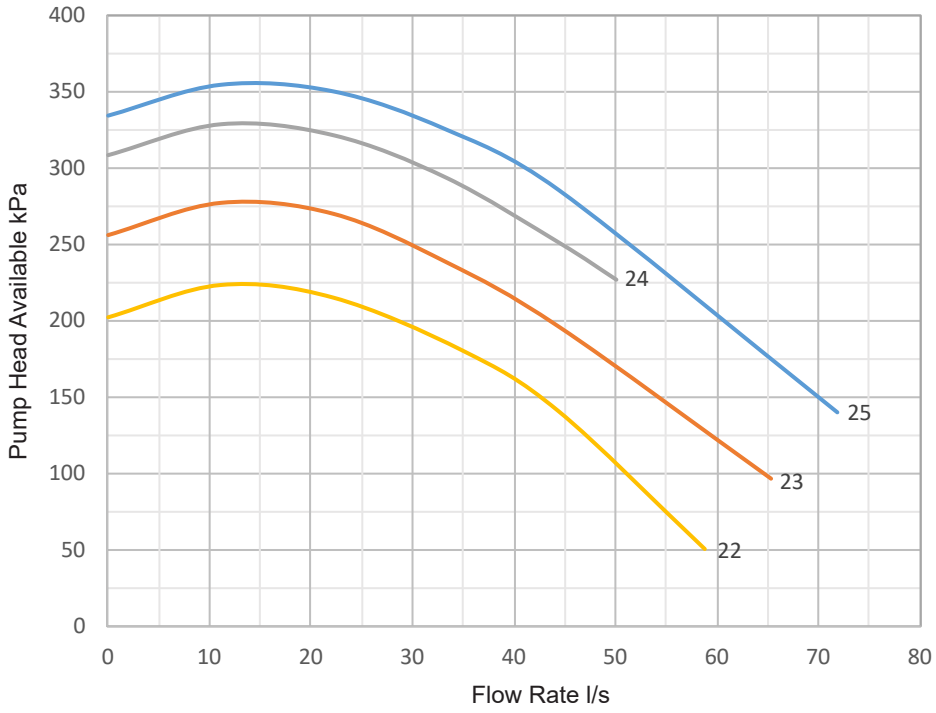
Pump Performance Curves

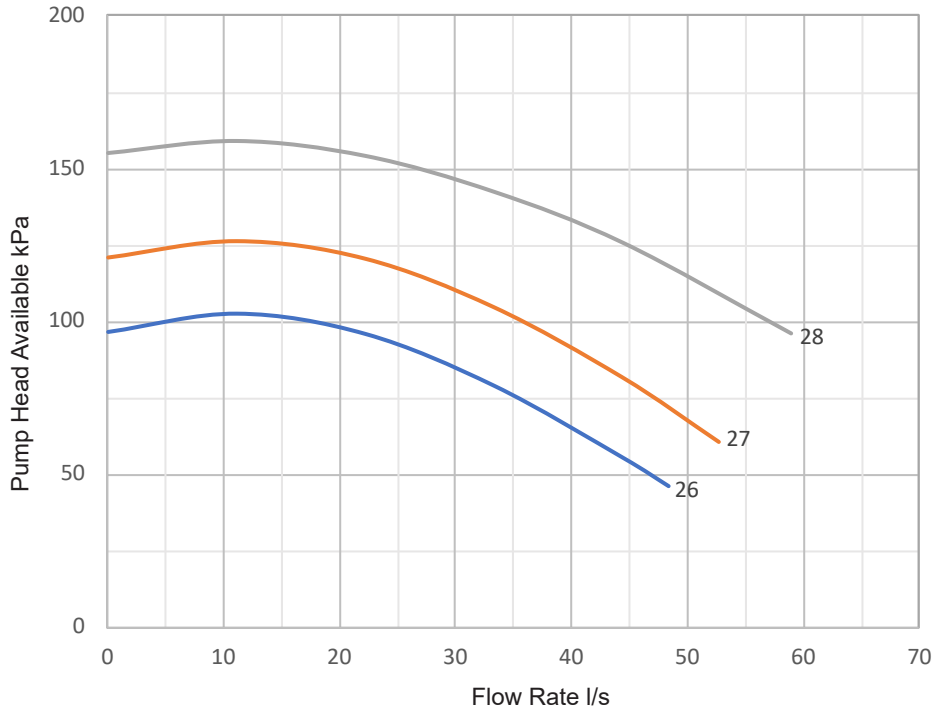




Pump curves based upon water.

Pump Performance Curves





Pump curves based upon water.

Installation Data

Water System

Chilled water pipework and ancillary components must be installed in accordance with:

- National and local water supply company standards.
- The manufacturer's instructions when fitting ancillary components.

It is also required:

- That the system water is treated to prevent corrosion and algae forming.
- In ambients of 0°C and below, where static water can be expected, or when water supply temperatures of +5°C or below is required, the necessary concentration of Glycol or use of an electrical trace heater must be included.

⚠CAUTION	The unit water connections are NOT designed to support external pipework, pipework should be supported during installation.

The water flow commissioning valve set is not shown in the diagram, as the valve can be fitted elsewhere within the chilled water circuit.

- The schematic is referred to as a guide to ancillary recommendations.

Component Recommended Requirements

The recommended requirements to allow commissioning to be carried out correctly are:

- The inclusion of Binder Points adjacent to the flow and return connections, to allow temperature and pressure readings.

⚠CAUTION	Constant water flow MUST be maintained. Variable water volume is NOT recommended and may invalidate warranty. The correct operation of the flow switch is critical if the chiller warranty is to be vaild.

- A flow switch or equivalent, fitted adjacent to the water outlet side of the chiller.
- A 20 mesh strainer fitted prior to the evaporator inlet.
- A water-flow commissioning valve set fitted to the system.
- In multiple chiller installations, 1 commissioning valve set is required per chiller.
- Air vents are to be installed at all high points and where air is likely to be trapped at intermediate points.
- Drain points are to be installed at all low points in the system and in particular adjacent to the unit for maintenance to be carried out.
- Isolating valves should be installed adjacent to all major items of equipment for ease of maintenance.
- Balancing valves can be installed if required to aid correct system balancing.
- All chilled water pipe work must be insulated and vapour sealed to avoid condensation.
- If several units are installed in parallel adjacent to each other, reverse return should be applied to avoid unnecessary balancing valves.

Pump Statement

When installing circulating water pumps or equipment containing them, the following rules should be applied:

- Ensure the system is filled with water then vented and the pump primed with water before running the pump, this is required because the pumped liquid cools the pump bearings and mechanical seal faces.
- To avoid cavitation the NPSH (Net Positive Suction Head) incorporating a safety margin of 0.5m head must be available at the pump inlet during operation.

Interlocks & Protection

Always electrically interlock the operation of the chiller with the pump controls and water flow switch for safety reasons. Failure to do this will invalidate the chiller warranty. Do not rely solely on the BMS to protect the chiller against low flow conditions. An evaporator pump interlock and flow switch MUST be directly wired to the chiller, refer to Interconnecting Wiring diagram.

System Flushing

Flushing of the water system must occur before the commissioning to protect the unit components from damage. As a good practise, the recommended minimum flushing flow rate should be the design flow rate plus 10%.

Water Treatment Guidelines

Protecting Plant

It is important that the Airedale plant and equipment is properly protected and maintained to ensure optimal system performance.

IMPORTANT ⚠	The equipment and system should be kept clean and free of solid, scale, corrosion and biological fouling. Failure to do so may invalidate the warranty.

Properly maintaining the system can improve energy efficiency and life expectancy. Acceptable water treatment levels for the system should be determined by the water treatment specialist on a project by project, system by system basis. The table below provides a guide to the acceptable range required for Airedale plant, although hardness of water may vary depending on the location of the site.

PH (5oC – 40oC)	7.0 – 8.5	Total Hardness (mg CaCO3/L)	<200
Electrical Conductivity (µs/cm)	<800	Total Iron (mg Fe/l)	<3.0
Chloride (mg Cl/l)	<200	Soluble Iron (mg Fe/l)	<1.0
Alkalinity (mg CaCO3/l)	<100	Ammonium (mg NH4+/l)	<1.0
Sulphate ion (mg S02 4-/l)	<200	Sulphide (mg S2-/l)	<5

When completing a chemical clean or a dynamic flush and dose on the secondary system from the low loss header or buffer vessel, primary units such as chillers, condensers and air conditioning units should have a full-bore bypass installed as close to the plant as possible. The plant should be placed in bypass when carrying out the chemical clean in order to protect sensitive plant items and smaller bore pipes from blockage.

Installers should refer to BG29 2020, Pre-Commissioning cleaning of Pipework Systems for the most up to date guidelines of pre-commissioning cleaning of pipework systems and BSRIA BG50 2013, Water Treatment for Closed Heating and Cooling Systems for ongoing water quality maintenance and systems in operation. The manufacturer is not responsible for damage to or malfunctioning of equipment caused by failure to treat water or by improperly treated system water - this applies to both before and after commissioning. .

Choice of Chemicals

Below is a table of metallic and non-metallic substances found in plant items produced by Airedale.

All chemicals to be used during the water treatment process should be carefully selected by the water treatment specialist so that they do not have a detrimental effect on these items, any component within the plant and equipment or the system as a whole. Frost protection and the dosing of chemicals such as monoethylene and polypropylene should be carefully considered in terms of dosing levels and blended chemical compatibility. Thermal efficiency should also be considered, on a project-by-project basis.

IMPORTANT ⚠	This is not an exhaustive list and specific advice should be sought for individual items of equipment or specific applications, if required.

Copper	Stainless Steel (AISI 302)	Silicon	PA66
Brass	Stainless Steel (AISI 316)	PVC	Neoprene
Cast Bronze	Nickel Plated Brass	PTFE	Nitrile-Butylene Elastomer
Cast Iron	Galvanized Iron	PPS	Ethylene Propylene Rubber
Mild Steel	VITON (Rubber/Silicone mix)	PPE	EPDM
TPE	Synthetic Fibre	PPA 40-GF	Diaphragm

Filling Stage

- Before filling plant items, a visual inspection of valves should take place to ensure that there are no open ends such as drain cocks opened during installation.
- The plant items should be filled with clean water, dosed with corrosion inhibitor and biocides as required in order to prevent corrosion and biological growth. Refer to BSRIA recommendations regarding pre-filling.
- Manual or automatic air vents should be opened to release displaced air from the system during the filling process until pressurised.

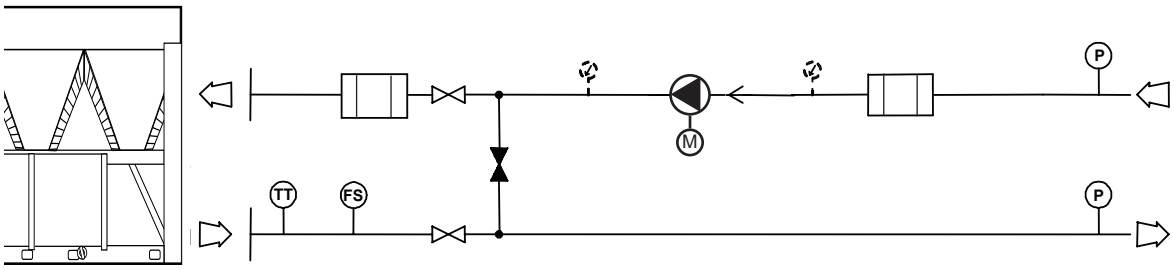
Installation

Water System

Key

	Water In		Shut Off Valve	FS	Flow Switch		Pressure Gauge
	Water Out		Isolation Valve		Bypass Valve	P	Pressure Sensor
	Filter		Check Valve		Bleed Valve	TT	Temperature Sensor
M	Pump	M	Mixing Valve		Double Regulating Valve		Drain Valve

Standard Recommended Installation (Parts Supplied By Others)

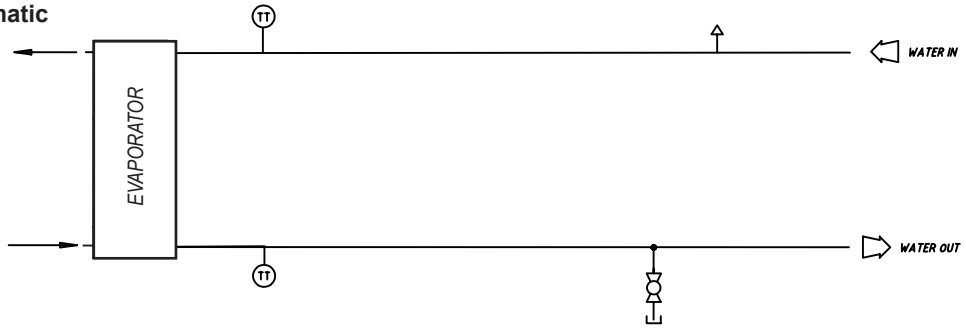


Flow Schemes

Basic Supplied Water Schematic

Optional Extras:

- Flow Switch (supplied loose).



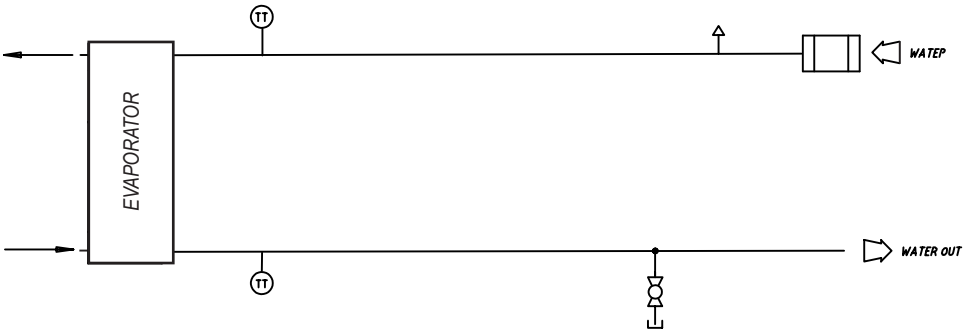
Optional Flow Schemes

Filter Only Scheme - Comprises:

Standard Circuit plus:

Optional Extras:

- Flow Switch (supplied loose).
- 20 Mesh Water Filter.

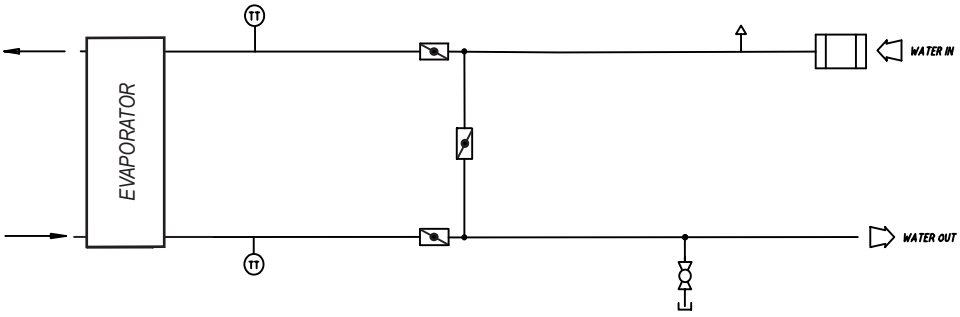


Filter - Flushing Bypass Scheme - Comprises:

Standard Circuit plus:

Optional Extras:

- Flow Switch (supplied loose).
- 20 Mesh Water Filter.
- Flushing Bypass Circuit.



Installation

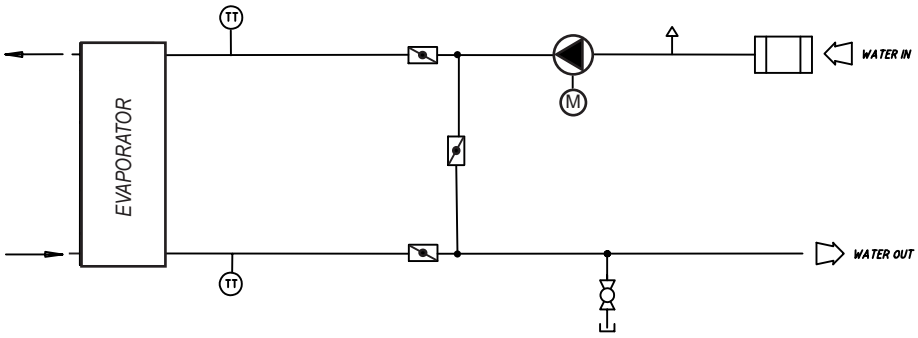
Water System
Pump Options - Flow Schemes

Single Head Pump Scheme - Comprises:

Standard Circuit plus:

Optional Extras:

- Flow Switch (supplied loose).
- 20 Mesh Water Filter.
- Flushing Bypass Circuit.
- Single Head Pump.

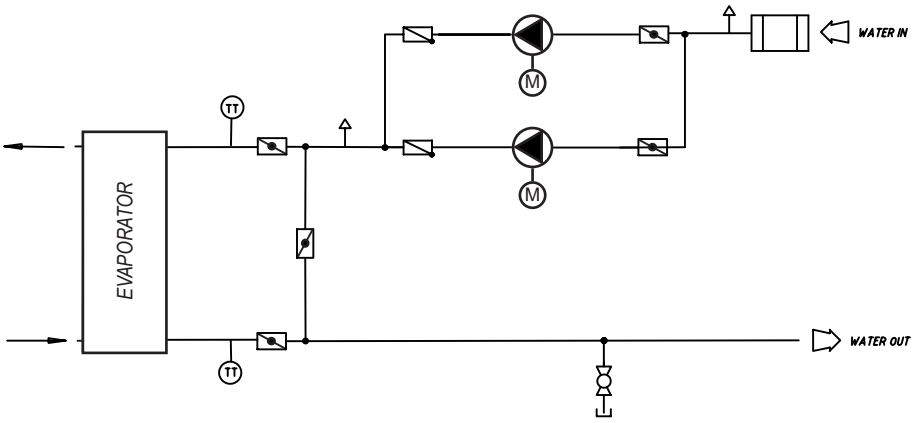


Single Head Run/Standby Pump Scheme - Comprises:

Standard Circuit plus:

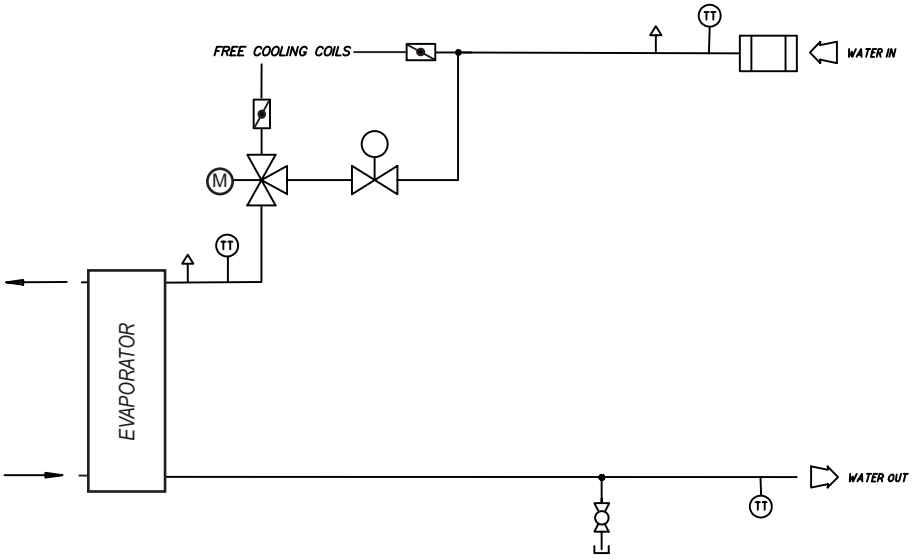
Optional Extras:

- Flow Switch (supplied loose).
- 20 Mesh Water Filter.
- Flushing Bypass Circuit.
- Single Head Run/Standby Pump.



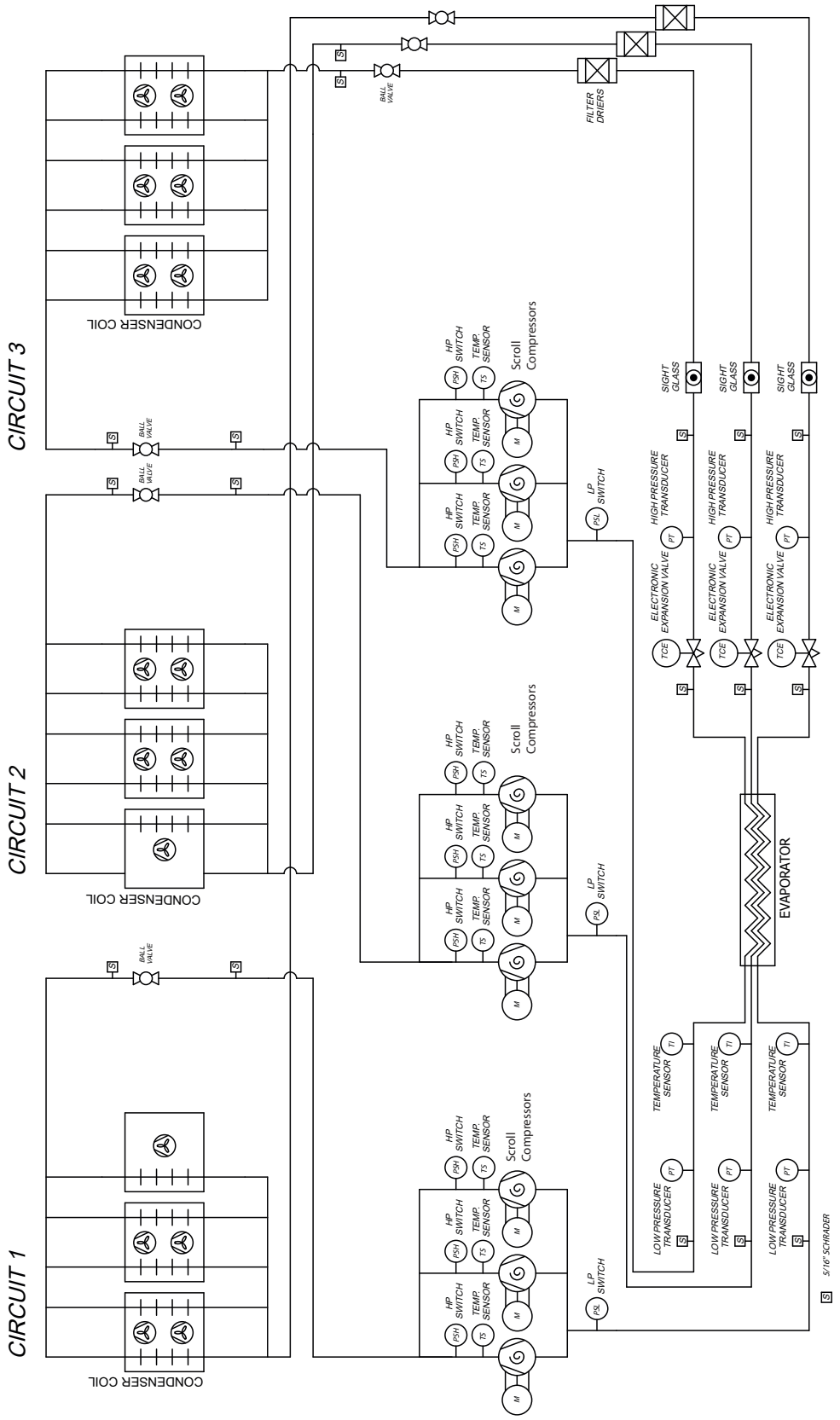
Standard Free Cool Circuit Incorporating:

- Double Regulating Valve
- Mixing Valve
- 20 Mesh Water Filter



Installation Data

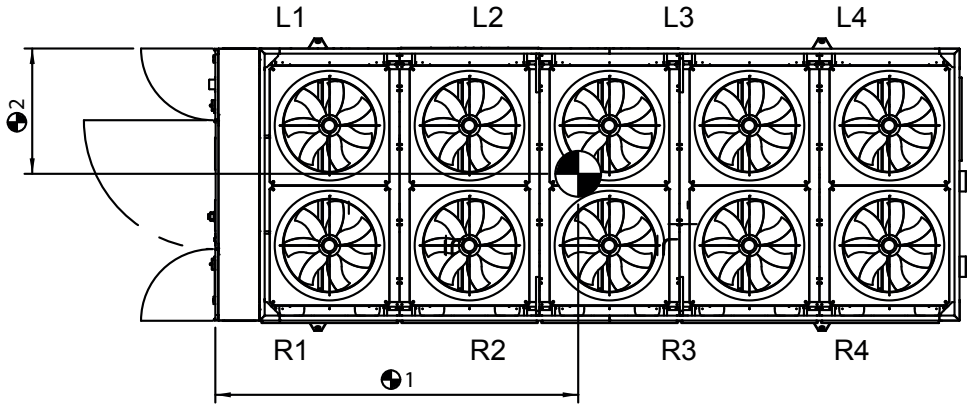
Refrigeration Schematic



Schematic shows a triple Circuit machine

Installation Data

Masses & Centre of Gravity (C of G ⊕)



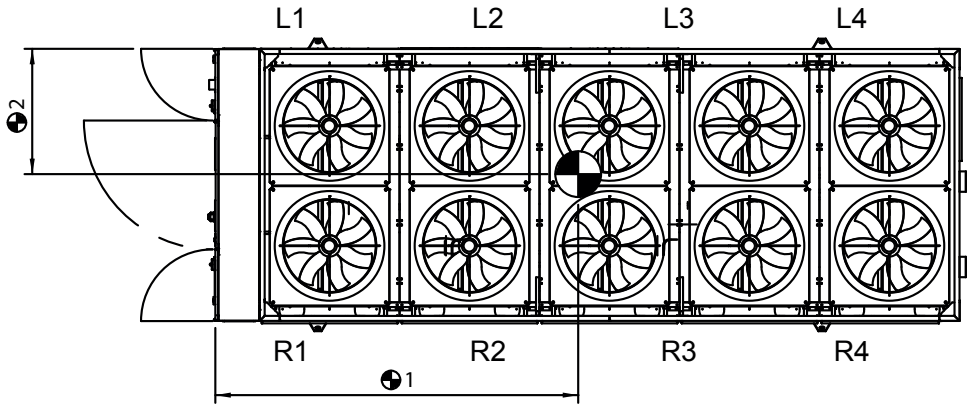
Model	Machine	Operating	L1	L2	L3	L4	L5	L6	L7	L8	R1	R2	R3	R4	R5	R6	R7	R8	C of G 1	C of G 2
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm	mm
DCC011DR-04JBC0	1505	1535	415	275							505	335							1205	965
DCC016DR-04JGG0	1645	1675	445	285							580	370							1240	950
DCC021DR-04JJK0	1800	1840	465	305							645	425							1275	965
DCC026DR-04KKL0	1900	1965	485	310							715	455							1305	950
DCC011DR-06JBC0	1930	1965	495	400							590	480							1195	1600
DCC016DR-06JGG0	2075	2110	560	375							705	470							1225	1505
DCC021DR-06JJK0	2225	2270	575	400							760	535							1250	1530
DCC027DR-06KKL0	2330	2405	600	405							835	565							1275	1510
DCC032DR-06KLR0	2490	2570	605	440							885	645							1300	1550
DCC036DR-06KRR0	2640	2725	645	435							980	665							1325	1510
DCC022DR-08JJK0	2630	2680	435	395	360						545	495	450						1220	2090
DCC027DR-08KKL0	2740	2825	450	410	370						585	535	480						1240	2085
DCC033DR-08KLR0	2900	2990	455	420	385						625	575	530						1265	2115
DCC036DR-08KRR0	3045	3140	475	435	390						675	615	555						1285	2085
DCC043DR-08LXX0	3845	4050	525	560	585						750	795	840						915	2370
DCC043DR-08KSS0	3100	3210	490	440	395						695	630	560						1285	2070
DCC045DR-08KSQ0	3100	3210	490	440	395						695	625	560						1285	2065
DCC033DR-10KLR0	3295	3400	390	375	360	345					510	495	470	455					1245	2690
DCC037DR-10KRR0	3440	3550	405	385	365	345					550	530	495	475					1265	2645
DCC043DR-10LXX0	4325	4565	510	490	475	455					700	670	645	620					940	2695
DCC044DR-10KSS0	3500	3620	415	395	370	350					565	540	505	480					1265	2630
DCC045DR-10KSQ0	3500	3620	415	395	370	350					565	540	505	480					1265	2625
DCC048DR-09NXY0	4370	4645	520	500	485	465					710	680	660	630					940	2700
DCC056DR-10NYY0	4450	4720	530	510	490	470					720	690	670	640					940	2700
DCC057DR-10NYV0	4455	4725	530	510	490	475					720	690	670	640					940	2700
DCC044DR-12LXX0	4850	5155	595	570	550	520					775	745	715	680					960	3210
DCC044DR-12KSS0	3880	4010	470	445	420	395					620	590	550	520					1245	3160
DCC046DR-12KSQ0	3880	4015	470	445	420	395					620	590	550	520					1245	3155
DCC049DR-11NXY0	4895	5235	595	580	560	540					775	755	730	700					960	3255
DCC056DR-12NYY0	4975	5310	610	590	565	540					795	770	740	705					960	3220
DCC058DR-12NYV0	4980	5310	610	590	565	540					795	765	740	705					960	3220

(1) Centre of gravity is always measured from the control panel end.

(2) Above refers to standard unit water configurations of evaporator only, contact Airedale for other options.

Installation Data

Masses & Centre of Gravity (C of G ⊕)



Model	Machine	Operating	L1	L2	L3	L4	L5	L6	L7	L8	R1	R2	R3	R4	R5	R6	R7	R8	C of G 1	C of G 2
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm	mm
DCC062TR-11PNXX	5345	5745	590	600	610	615					815	825	835	850					935	3465
DCC063TR-12PXXX	5560	5865	615	610	600	590					880	870	855	845					915	3340
DCC049DR-13NXY0	5355	5730	540	520	495	520	460				680	655	630	655	580				980	3680
DCC057DR-14NYY0	5440	5810	545	525	505	525	465				690	665	635	665	585				980	3680
DCC059DR-14NYV0	5445	5815	550	525	505	525	465				690	665	635	665	585				980	3680
DCC063TR-14PNXX	5865	6300	560	550	540	550	525				735	725	710	725	690				955	3860
DCC068TR-13PXXY	6030	6415	570	550	530	550	500				785	755	730	755	685				935	3725
DCC076TR-14SXYY	6260	6920	640	620	595	620	560				820	795	765	795	715				970	3720
DCC063TR-15PXXX	6295	6640	620	585	545	585	490				840	790	735	790	660				945	4150
DCC069TR-16PXXY	6465	6900	650	610	565	610	505				875	820	765	820	680				945	4120
DCC083TR-15SYYY	6630	7330	720	670	620	670	550				915	855	790	855	695				975	4080
DCC086TR-15SYVV	6620	7320	720	670	620	670	550				910	850	785	850	695				975	4080
DCC088TR-15SVVV	6620	7320	720	670	620	670	550				910	850	785	850	695				975	4080
DCC092TR-15SVVW	6695	7380	720	670	620	670	550				920	860	795	860	705				970	4090
DCC095TR-15SVWW	6750	7435	720	675	625	675	550				930	870	805	870	710				965	4080
DCC098TR-15SWWW	6805	7490	725	675	625	675	550				945	880	815	880	715				960	4065
DCC064TR-17PNXX	6630	7155	710	670	630	670	555				860	815	765	815	675				1000	4525
DCC064TR-18PXXX	6850	7280	720	675	625	675	535				905	845	785	845	670				980	4395
DCC076TR-17SXYY	6985	7690	760	710	660	710	570				955	895	830	895	710				980	4420
DCC084TR-18SYYY	7085	7770	770	720	665	720	570				970	905	835	905	715				980	4385
DCC087TR-18SYVV	7075	7765	770	720	665	720	570				965	905	835	905	710				980	4385
DCC089TR-18SVVV	7075	7760	770	720	665	720	570				965	900	835	900	710				985	4385
DCC094TR-18SVVW	7150	7825	775	725	670	725	570				975	910	845	910	720				980	4390
DCC097TR-18SVWW	7205	7880	775	725	670	725	570				990	920	850	920	725				975	4385
DCC100TR-18SWWW	7260	7935	780	725	670	725	570				1000	935	860	935	730				970	4365
DCC070TR-19PXXY	7170	7650	525	500	470	495	500	500	370		670	635	600	635	635	635	470		975	4740
DCC077TR-20SXYY	7400	8150	570	540	505	535	540	540	395		710	675	635	675	675	675	495		980	4715
DCC085TR-21SYYY	7800	8580	600	570	540	565	570	570	410		745	710	670	710	710	710	510		985	5140
DCC088TR-21SYVV	7790	8575	600	570	540	565	570	570	410		745	710	670	710	710	710	510		985	5140
DCC090TR-21SVVV	7790	8570	600	570	540	565	570	570	410		745	710	670	710	710	710	510		985	5140
DCC094TR-21SVVW	7865	8630	600	570	540	565	570	570	410		750	715	675	715	715	715	515		980	5140
DCC098TR-21SVWW	7920	8685	600	570	540	565	570	570	410		760	725	685	725	725	725	520		975	5130

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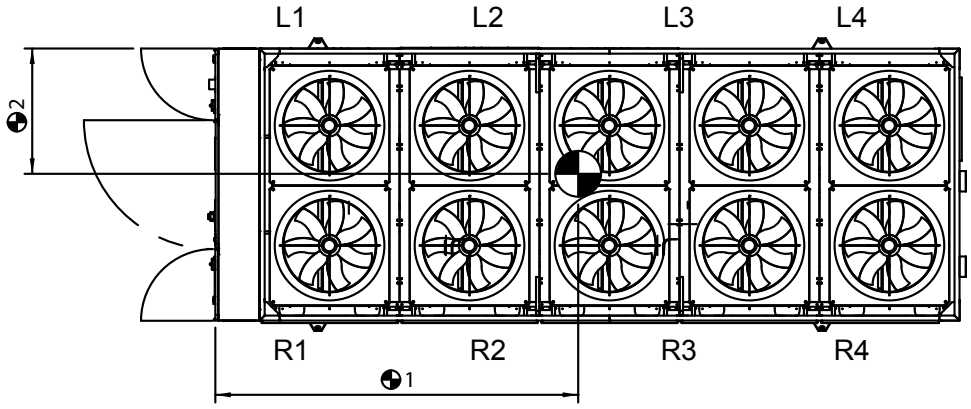
Installation Data

Masses & Centre of Gravity (C of G ⊕)



Model	Machine	Operating	L1	L2	L3	L4	L5	L6	L7	L8	R1	R2	R3	R4	R5	R6	R7	R8	C of G 1	C of G 2
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm	mm
DCC101TR-21SWWW	7975	8740	605	575	540	570	575	575	410		765	730	690	730	730	730	520		975	5120
DCC011DX-06JBC0	2105	2140	510	420							665	545							1245	1605
DCC016DX-06JGG0	2245	2285	570	390							785	535							1270	1515
DCC021DX-06JJK0	2400	2445	585	420							840	600							1290	1540
DCC026DX-06KKL0	2505	2580	610	425							910	630							1310	1525
DCC022DX-08JJK0	2830	2880	445	405	370						605	555	500						1265	2095
DCC027DX-08KKL0	2940	3025	460	420	380						645	590	535						1285	2090
DCC032DX-08KLR0	3100	3190	465	430	395						685	635	580						1305	2120
DCC035DX-08KRR0	3245	3340	485	440	400						735	670	605						1320	2090
DCC033DX-10KLR0	3525	3630	395	385	365	355					560	545	520	500					1285	2690
DCC036DX-10KRR0	3670	3780	410	395	375	355					600	575	545	520					1300	2650
DCC043DX-10LXX0	4485	4725	520	500	480	460					735	705	680	650					920	2690
DCC043DX-10KSS0	3725	3845	420	405	380	360					615	590	550	525					1300	2635
DCC044DX-10KSQ0	3730	3845	420	405	380	360					615	590	550	525					1300	2630
DCC044DX-12LXX0	5005	5310	605	580	555	525					815	780	745	705					945	3190
DCC044DX-12KSS0	4105	4240	480	455	430	405					670	635	600	565					1280	3170
DCC045DX-12KSQ0	4110	4240	480	455	430	405					670	640	600	565					1280	3165
DCC048DX-11NXY0	5050	5390	605	585	565	540					815	790	760	725					945	3230
DCC055DX-12NYY0	5135	5470	620	595	570	540					835	805	770	730					945	3200
DCC057DX-12NYV0	5140	5470	620	600	570	545					835	805	770	730					945	3200
DCC049DX-13NXY0	5510	5890	550	525	500	525	460				715	685	650	685	595				965	3650
DCC056DX-14NYY0	5595	5970	555	535	510	535	465				725	695	660	695	605				965	3650
DCC058DX-14NYV0	5600	5970	555	535	510	535	465				725	695	660	695	605				965	3650
DCC062TX-14PNXX	6125	6560	570	560	550	560	530				780	765	750	765	725				935	3835
DCC063TX-15PXXX	6555	6900	635	595	555	595	495				890	835	775	835	690				925	4120
DCC068TX-16PXXY	6640	6985	650	605	560	605	495				905	845	780	845	695				925	4090
DCC063TX-17PNXX	6890	7415	725	680	635	680	555				915	860	800	860	700				980	4480
DCC064TX-18PXXX	7110	7540	735	685	630	685	535				960	895	820	895	700				960	4360
DCC075TX-17SXYY	7250	7950	775	725	665	725	570				1005	940	865	940	740				965	4380
DCC083TX-18SYYY	7345	8030	785	735	675	735	570				1020	950	875	950	740				965	4350
DCC085TX-18SYVV	7335	8025	785	735	675	735	570				1020	950	875	950	740				965	4350

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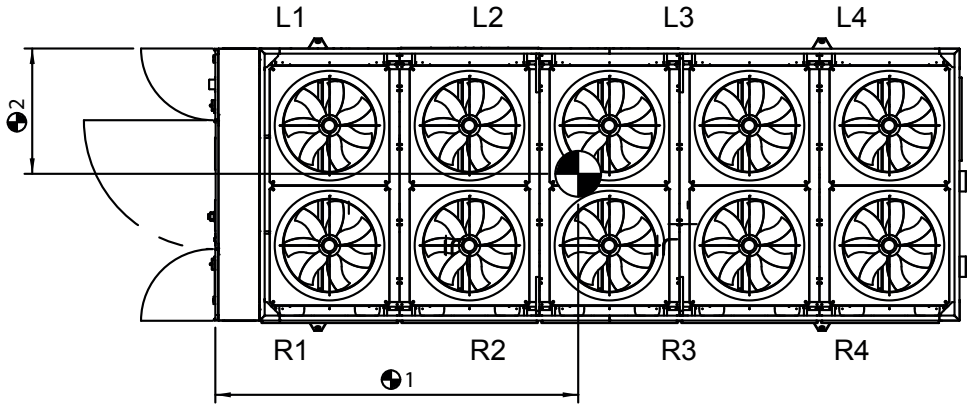
Installation Data

Masses & Centre of Gravity (C of G ⊕)



Model	Machine	Operating	L1	L2	L3	L4	L5	L6	L7	L8	R1	R2	R3	R4	R5	R6	R7	R8	C of G 1	C of G 2
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm	mm
DCC087TX-18SVVV	7335	8025	785	735	675	735	570				1020	950	870	950	740				965	4350
DCC091TX-18SVVW	7410	8085	790	735	675	735	575				1030	960	880	960	750				960	4355
DCC093TX-18SVWW	7465	8140	790	735	675	735	575				1040	970	890	970	755				955	4350
DCC096TX-18SWWW	7520	8195	795	740	680	740	570				1055	980	900	980	760				955	4330
DCC070TX-19PXXY	7430	7910	535	510	475	505	510	510	370		705	670	630	670	670	670	485		955	4695
DCC077TX-20SXYY	7660	8410	580	545	510	540	545	545	395		750	705	665	705	705	705	510		965	4670
DCC084TX-21SYYY	8060	8840	610	580	545	570	580	580	410		780	740	700	740	740	740	525		970	5100
DCC087TX-21SYVV	8055	8835	610	580	545	570	580	580	410		780	740	700	740	740	740	525		970	5100
DCC088TX-21SVVV	8050	8830	610	580	545	570	580	580	410		780	740	700	740	740	740	525		970	5100
DCC093TX-21SVVW	8125	8890	610	580	545	575	580	580	410		785	745	705	745	745	745	530		965	5100
DCC096TX-21SVWW	8180	8945	610	580	550	575	580	580	410		795	755	710	755	755	755	535		965	5090
DCC098TX-21SWWW	8235	9000	615	580	550	575	580	580	410		805	760	720	760	760	760	535		960	5070
DCF012DR-04JBC0	1955	2110	550	440							625	500							1170	1045
DCF017DR-04JGG0	2100	2265	585	445							700	535							1195	1025
DCF012DR-06JBC0	2535	2760	670	635							745	705							1155	1675
DCF018DR-06JGG0	2680	2910	745	605							865	700							1180	1600
DCF023DR-06JJK0	2840	3080	760	635							920	765							1200	1610
DCF029DR-06KKL0	3010	3310	800	670							1000	840							1220	1620
DCF024DR-08JJK0	3400	3710	595	575	550						690	665	635						1175	2195
DCF030DR-08KKL0	3590	3975	620	605	590						740	720	700						1190	2220
DCF036DR-08KLR0	3750	4145	630	620	610						775	760	750						1210	2240
DCF039DR-08KRR0	3875	4270	645	625	610						820	795	775						1230	2220
DCF045DR-08LXX0	4745	5285	730	805	870						875	965	1040						1005	2425
DCF036DR-10KLR0	4315	4790	545	545	545	545					655	650	650	650					1195	2830
DCF040DR-10KRR0	4440	4915	560	555	550	545					685	680	675	670					1210	2800
DCF046DR-10LXX0	5425	6100	730	720	710	700					825	815	805	795					1035	2790
DCF047DR-10KSS0	4500	4985	570	565	555	550					700	695	680	675					1210	2790
DCF049DR-10KSQ0	4500	4985	570	565	555	545					700	695	680	675					1210	2785
DCF053DR-09MXY0	5640	6505	780	780	775	770					855	850	850	845					1055	2825
DCF061DR-10MYY0	5820	6705	805	805	800	795					880	875	870	870					1055	2825
DCF063DR-10MYV0	5830	6705	810	805	800	800					880	875	870	870					1055	2825

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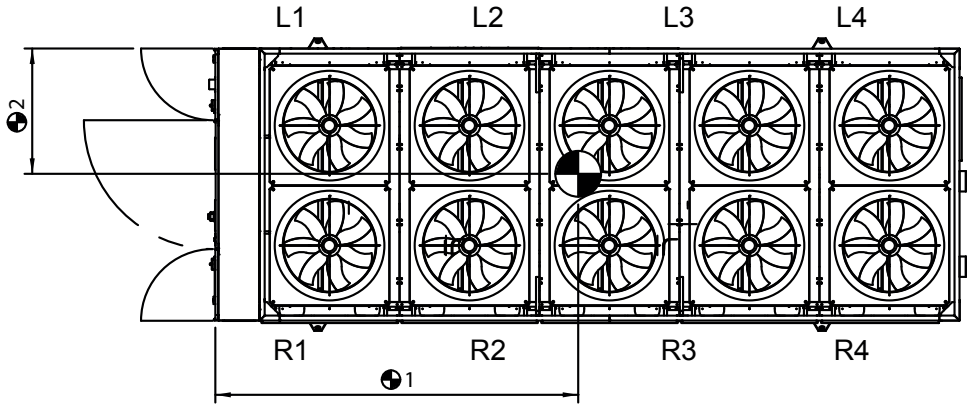
Installation Data

Masses & Centre of Gravity (C of G ⊕)



Model	Machine	Operating	L1	L2	L3	L4	L5	L6	L7	L8	R1	R2	R3	R4	R5	R6	R7	R8	C of G 1	C of G 2
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm	mm
DCF047DR-12LXX0	6065	6830	860	830	800	760					950	915	880	835					1050	3215
DCF048DR-12KSS0	4865	5430	640	625	610	595					765	750	730	715					1200	3305
DCF049DR-12KSQ0	4865	5435	640	625	610	595					770	750	730	715					1200	3300
DCF054DR-11MXY0	6280	7235	925	895	855	815					995	960	920	875					1065	3210
DCF061DR-12MYY0	6460	7430	920	905	890	870					985	970	955	935					1065	3320
DCF064DR-12MYV0	6470	7435	920	905	890	875					985	970	955	935					1065	3325
DCF068TR-11RNXX	6830	8010	905	930	965	1000					1000	1035	1070	1110					1045	3560
DCF070TR-12RXXX	7215	8525	995	1000	1010	1020					1110	1120	1130	1140					1040	3445
DCF055DR-13MXY0	6920	8000	805	790	775	790	745				845	830	810	830	780				1075	3835
DCF062DR-14MYY0	7100	8200	825	810	795	810	765				865	850	830	850	800				1075	3835
DCF065DR-14MYV0	7110	8200	825	810	795	810	765				865	850	830	850	800				1075	3835
DCF069TR-14RNXX	7595	8920	855	855	860	855	865				920	925	930	925	935				1060	3990
DCF077TR-13RXXY	7780	9180	925	905	885	905	845				975	955	935	955	895				1070	3815
DCF084TR-14RXYY	7930	9355	935	920	900	920	865				990	975	955	975	920				1070	3835
DCF071TR-15RXXX	8290	9845	1025	985	945	985	885				1065	1025	980	1025	920				1080	4340
DCF078TR-16RXXY	8465	10030	1055	1010	960	1010	890				1095	1045	995	1045	920				1080	4285
DCF091TR-15RYYY	8435	9965	1040	995	955	995	890				1085	1040	995	1040	930				1080	4330
DCF095TR-15RYVV	8425	9960	1040	995	955	995	890				1080	1040	995	1040	930				1080	4330
DCF098TR-15RVVV	8450	9965	1040	1000	955	1000	895				1080	1040	995	1040	930				1080	4330
DCF101TR-15RVVW	8505	10020	1040	1000	955	1000	895				1090	1050	1005	1050	940				1075	4335
DCF104TR-15RVWW	8560	10075	1045	1000	955	1000	895				1100	1060	1010	1060	945				1070	4330
DCF107TR-15RWWW	8615	10130	1045	1005	960	1005	895				1115	1070	1020	1070	950				1065	4315
DCF070TR-17RNXX	8770	10475	1150	1100	1045	1100	950				1100	1055	1000	1055	910				1125	4655
DCF071TR-18RXXX	9055	10780	1195	1130	1060	1130	940				1170	1105	1035	1105	915				1115	4530
DCF085TR-17RXYY	9010	10695	1175	1115	1050	1115	940				1155	1095	1035	1095	925				1110	4575
DCF092TR-18RYYY	9200	10900	1210	1140	1070	1140	945				1185	1120	1050	1120	925				1110	4520
DCF097TR-18RYVV	9195	10895	1210	1140	1070	1140	945				1185	1120	1045	1120	925				1110	4520
DCF100TR-18RVVV	9215	10905	1210	1145	1070	1145	945				1185	1120	1045	1120	925				1110	4520
DCF103TR-18RVVW	9270	10960	1210	1145	1075	1145	945				1195	1130	1055	1130	935				1110	4525
DCF107TR-18RVWW	9325	11015	1215	1145	1075	1145	945				1205	1140	1065	1140	940				1105	4520
DCF110TR-18RWWW	9380	11065	1220	1150	1075	1150	945				1220	1150	1075	1150	945				1100	4505

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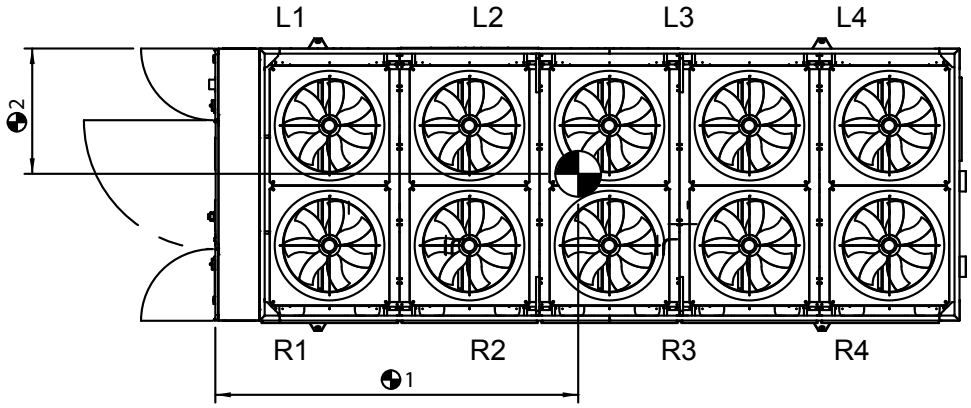
Installation Data

Masses & Centre of Gravity (C of G ⊕)



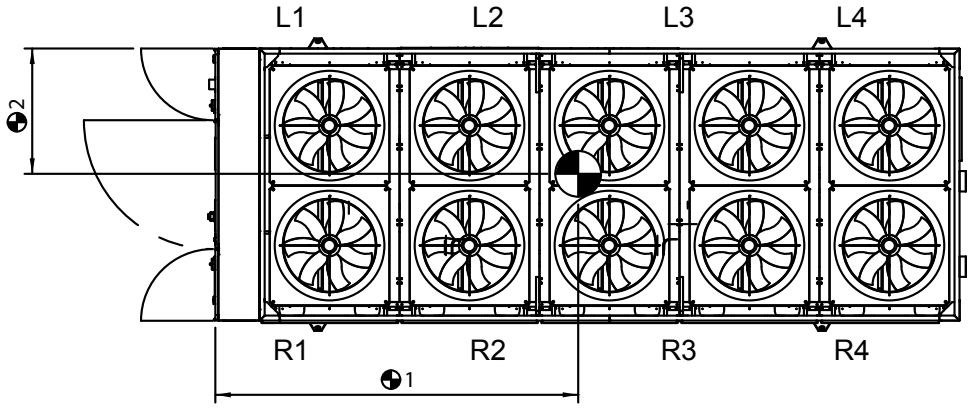
Model	Machine	Operating	L1	L2	L3	L4	L5	L6	L7	L8	R1	R2	R3	R4	R5	R6	R7	R8	C of G 1	C of G 2
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm	mm
DCF079TR-19RXXY	9525	11350	875	840	805	835	840	840	685		860	825	795	825	825	825	670		1110	5020
DCF086TR-20RXYY	9670	11520	885	850	815	845	850	850	695		870	840	805	840	840	840	690		1105	5045
DCF093TR-21RYYY	10215	12170	930	905	875	900	905	905	750		905	880	850	880	880	880	730		1115	5610
DCF098TR-21RYVV	10205	12165	930	905	875	900	905	905	750		905	880	850	880	880	880	730		1115	5610
DCF101TR-21RVVV	10230	12175	930	905	875	900	905	905	755		905	880	850	880	880	880	730		1115	5610
DCF104TR-21RVVW	10285	12230	935	905	875	900	905	905	755		915	885	855	885	885	885	735		1110	5610
DCF108TR-21RVWW	10340	12280	935	905	875	900	905	905	750		920	895	865	895	895	895	740		1110	5600
DCF111TR-21RWWW	10395	12335	940	910	875	905	910	910	750		930	900	870	900	900	900	745		1105	5580
DCF012DX-06JBC0	2705	2930	685	650							820	780							1195	1680
DCF018DX-06JGG0	2855	3085	755	620							940	770							1215	1605
DCF024DX-08JJK0	3600	3910	605	585	560						750	720	690						1210	2195
DCF029DX-08KKL0	3790	4175	630	615	600						795	775	755						1225	2220
DCF036DX-10KLR0	4545	5015	555	555	555	550					705	700	700	695					1225	2825
DCF039DX-10KRR0	4670	5145	570	565	555	550					735	730	720	715					1240	2800
DCF045DX-10LXX0	5585	6260	740	725	715	705					860	850	835	820					1020	2780
DCF046DX-12LXX0	6225	6985	875	840	805	760					985	950	910	860					1035	3195
DCF047DX-12KSS0	5090	5660	645	635	615	605					815	800	780	760					1225	3305
DCF049DX-12KSQ0	5095	5665	650	635	615	605					820	800	780	760					1225	3300
DCF053DX-11MXY0	6440	7395	895	885	875	865					985	975	965	955					1050	3360
DCF060DX-12MYY0	6615	7590	935	915	895	875					1025	1005	985	960					1050	3305
DCF062DX-12MYV0	6630	7595	935	915	900	875					1025	1005	985	960					1055	3305
DCF054DX-13MXY0	7080	8155	815	795	780	795	745				875	855	835	855	800				1060	3805
DCF061DX-14MYY0	7260	8355	835	820	800	820	765				895	875	855	875	820				1065	3810
DCF067TX-14RNXX	7855	9180	870	870	870	870	870				970	970	970	970	970				1045	3970
DCF063DX-14MYV0	7270	8360	835	820	800	820	765				895	875	855	875	820				1065	3810
DCF069TX-15RXXX	8550	10105	1045	1000	955	1000	890				1115	1070	1020	1070	950				1065	4310
DCF076TX-16RXXY	8725	10290	1075	1020	970	1020	890				1145	1090	1035	1090	950				1065	4260
DCF069TX-17RNXX	9035	10735	1170	1115	1055	1115	955				1150	1100	1040	1100	940				1105	4620
DCF071TX-18RXXX	9315	11045	1215	1145	1070	1145	940				1220	1150	1075	1150	945				1100	4500
DCF082TX-17RXYY	9270	10955	1190	1125	1060	1125	940				1205	1140	1070	1140	950				1095	4545
DCF089TX-18RYYY	9460	11160	1225	1155	1080	1155	945				1235	1165	1085	1165	950				1095	4490

(1) Centre of gravity is always measured from the control panel end.

(2) Above refers to standard unit water configurations of evaporator only, contact Airedale for other options.

Installation Data

Masses & Centre of Gravity (C of G ⊕)



Model	Machine	Operating	L1	L2	L3	L4	L5	L6	L7	L8	R1	R2	R3	R4	R5	R6	R7	R8	C of G 1	C of G 2
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	mm	mm
DCF094TX-18RYVV	9455	11155	1225	1155	1080	1155	945				1235	1165	1085	1165	950				1095	4490
DCF096TX-18RVVV	9480	11165	1225	1155	1080	1155	945				1235	1165	1085	1165	950				1095	4490
DCF099TX-18RVVW	9535	11220	1230	1155	1080	1155	950				1245	1175	1095	1175	960				1095	4495
DCF101TX-18RVWW	9590	11275	1230	1160	1080	1160	945				1255	1185	1105	1185	965				1090	4490
DCF104TX-18RWWW	9645	11330	1235	1160	1085	1160	945				1270	1195	1115	1195	970				1085	4475
DCF078TX-19RXXY	9785	11610	885	850	810	845	850	850	680		895	860	820	860	860	860	690		1095	4980
DCF084TX-20RXYY	9930	11780	895	860	825	855	860	860	695		905	870	835	870	870	870	705		1095	5005
DCF091TX-21RYYY	10475	12430	945	915	880	905	915	915	750		940	910	880	910	910	910	745		1100	5560
DCF096TX-21RYVV	10470	12425	945	910	880	905	910	910	750		940	910	880	910	910	910	745		1100	5560
DCF098TX-21RVVV	10490	12435	945	915	880	910	915	915	750		940	910	880	910	910	910	745		1100	5560
DCF101TX-21RVVW	10545	12490	945	915	880	910	915	915	750		950	920	885	920	920	920	750		1100	5560
DCF104TX-21RVWW	10600	12545	945	915	885	910	915	915	750		955	925	890	925	925	925	755		1095	5550
DCF108TX-21RWWW	10655	12600	950	920	885	910	920	920	745		965	935	900	935	935	935	760		1090	5530

(1) Centre of gravity is always measured from the control panel end.

(2) Above refers to standard unit water configurations of evaporator only, contact Airedale for other options.

Installation Data

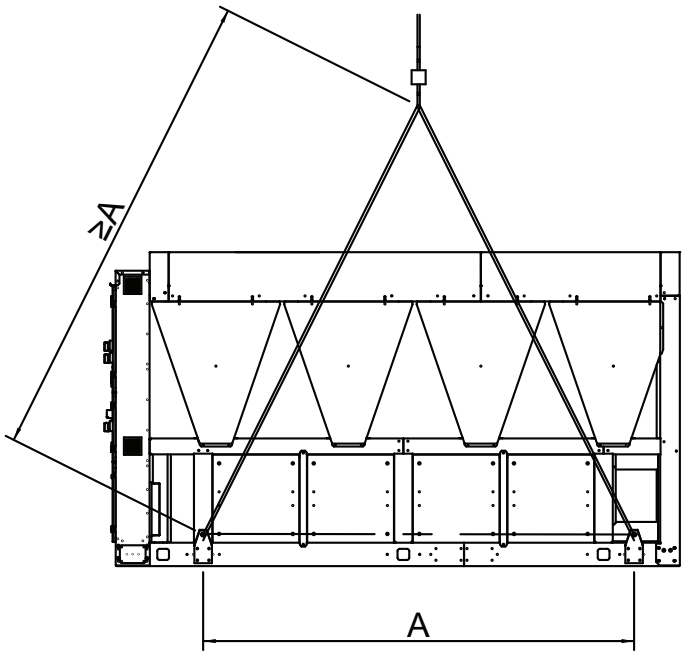
Unit Lifting

- Employ lifting specialists.
- Local codes and regulations relating to the lifting of this type of equipment should be observed.
- Use the lifting eye bolts/lifting lugs provided.
- Attach lifting chains to each of the lifting eye bolts/lifting lugs provided; each chain and eye bolt must be capable of lifting the whole chiller.
- Use the appropriate spreader bars/lifting slings with the holes/lugs provided.
- Lift the unit slowly and evenly.
- If the unit is dropped, it should immediately be checked for damage and reported to Airedale.
- Allow free space above the fans to prevent air recirculation.

⚠CAUTION	The unit should be lifted from the base and where possible, with all packing and protection in position. If any other type of slinging is used, due care should be taken to ensure that the slings do not crush the casework or coil.

Lifting Dimensions

4 Point

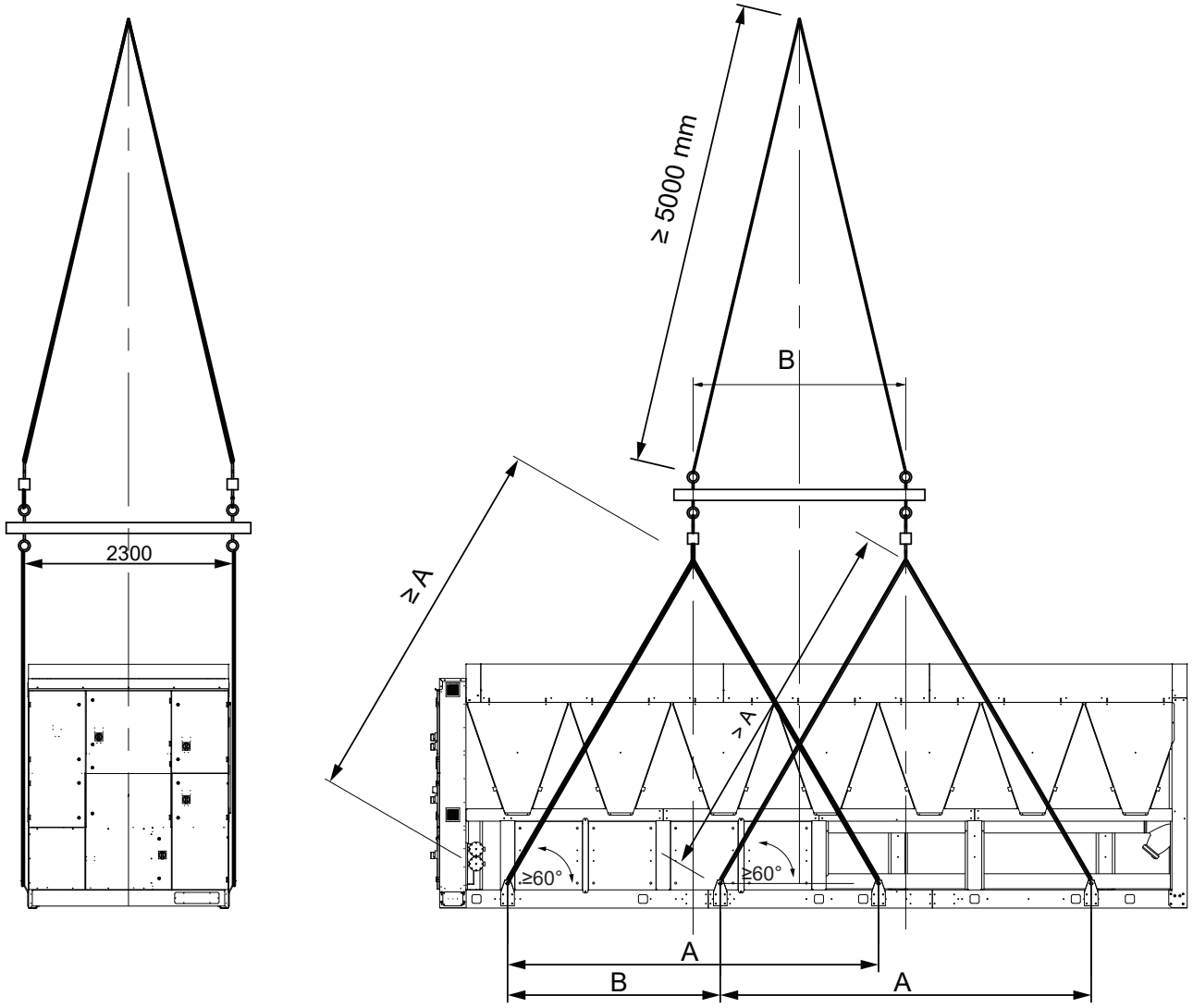


Number of Fans	Brazed Plate Evaporator			Shell and Tube Evaporator	
	Lifting Eyebolt Size	With Hydronics (A)	Without Hydronics (A)	Lifting Lug Size (mm)	A (mm)
4	M24	1854	1550	-	-
6	M30	2186	1904	-	-
7-8	M30	3502	3143	35	3680
9 - 10	M30	3340	3048	35	4415
11-12	M36	4745	4320	35	3145
13-14	-	-	-	35	4077
15-16	-	-	-	35	4750
17-18	-	-	-	35	5730
19-20	-	-	-	35	6660
21	-	-	-	35	6930

Installation Data

Lifting Dimensions

8 Point



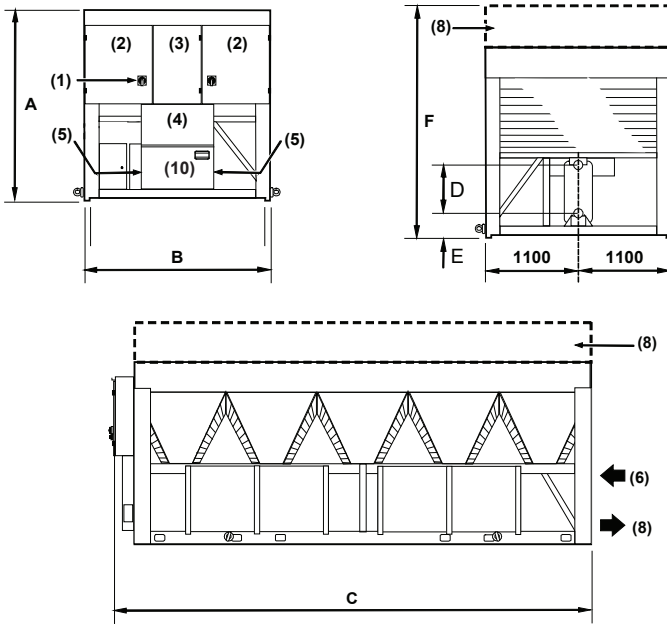
Number of Fans	Shell and Tube Evaporator		
	Lifting Lug Size (mm)	A (mm)	B (mm)
7 / 8	35	3680	N/A
9 / 10	35	4415	N/A
11 / 12	35	3145	2340
13 / 14	35	4077	2340
15 / 16	35	4750	2800
17 / 18	35	5730	2950
19 / 20	35	6660	3150
21 / 22	35	6930	4000

Installation Data

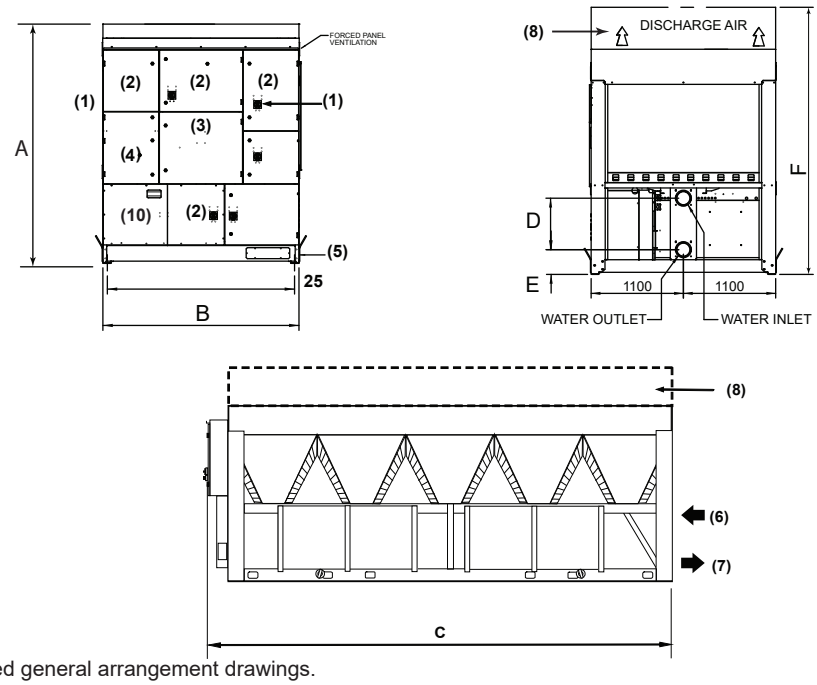
Dimensions

⚠**IMPORTANT**	The following information is for general guidance; please refer to the certified drawings provided for installation.

Brazed Plate Evaporator Units



Shell and Tube Evaporator Units



Contact Airedale for detailed general arrangement drawings.
Dimensions are listed overleaf.

(1) Mains electric isolator(s).
(2) Electric control panel - Circuit 1 and Circuit 2 and Circuit 3.
(3) Microprocessor control panel.
(4) Bus bar chamber / incoming customer mains supply.
(5) Mains cable entry and route to busbar, unit incoming mains isolation supplied by others.
(6) Water connections: water inlet
(7) Water connections water outlet.
(8) Optional discharge plenum extension

Evaporator Water Drain/Bleed: 1/2”
Please refer to the mechanical data tables for grooved water connection information.

Installation Data

Dimensions

Number of Fans	Units	Brazed Plate Evaporator						Shell and Tube Evaporator					
		A	B	C	D*	E	F	A	B	C	D	E	F
4	mm	2612	2200	2555	568	195	3112	-	-	-	-	-	-
6	mm	2620	2200	3690	568	206	3120	-	-	-	-	-	-
8	mm	2620	2200	4820	568	206	3120	2682	2200	4846	613	206	3182
9 / 10	mm	2620	2200	5957	568	206	3120	2682	2200	5978	613	206	3186
11 / 12	mm	2620	2200	7090	568	206	3120	2682	2200	7110	613	206	3186
13 / 14	mm	-	-	-	-	-	-	2682	2200	8242	613	206	3186
15 / 16	mm	-	-	-	-	-	-	2682	2200	9374	613	206	3186
17 / 18	mm	-	-	-	-	-	-	2682	2200	10506	613	206	3186
19 / 20	mm	-	-	-	-	-	-	2682	2200	11638	613	206	3186
21	mm	-	-	-	-	-	-	2682	2200	12770	613	206	3186

*This dimension is 550mm when pumps are fitted.

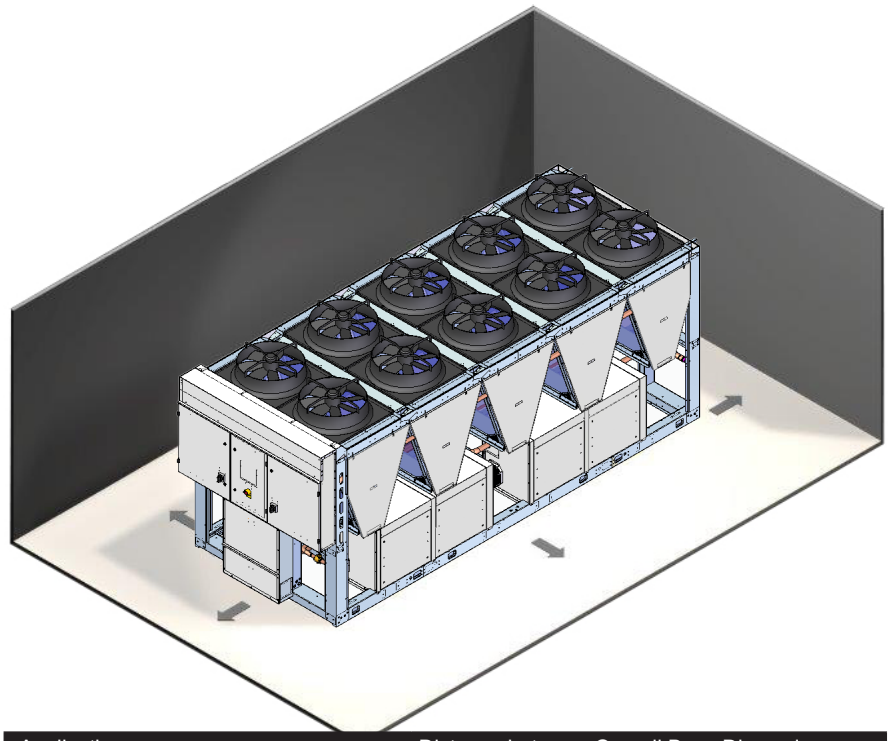
Positioning

The installation position should be selected with the following points in mind:

- Position on a stable and even base, levelled to ensure that the compressor operates correctly.
- Levelling should be to ± 1°.
- Where vibration transmission to the building structure is possible, fit spring anti-vibration mounts and flexible water connections.
- Observe airflow and maintenance clearances.
- Pipe work and electrical connections are readily accessible.
- Where multiple units are installed, due care should be taken to avoid the discharge air from each unit adversely affecting other units in the vicinity.
- Within a side enclosed installation, the fan MUST be higher than the enclosing structure.
- Increased airflow and maintenance clearances are required for side-enclosed or multiple unit applications.
- Ensure there are no obstructions directly above the fans to prevent air recirculation.
- The ventilation fan must not be obstructed and must dischard away from any sources of ignition.
- If the unit is installed in particularly windy locations, the provision of wind breaks may be required. For such applications a vertical discharge unit is recommended or where horizontal airflow could be obstructed.

⚠CAUTION Prior to connecting services, ensure that the equipment is installed and completely level.

Airflow & Maintenance Clearances



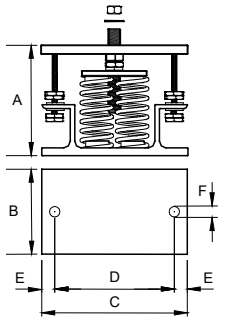
Application	Distance between Overall Base Dimension
Single unit	1300 mm
Side-enclosed or multiple units	2600 mm

Installation Data

Anti Vibration Mounting (Optional)

ISL Spring Type

Each mount is coloured to indicate the different loads, refer to instructions supplied for correct allocation.



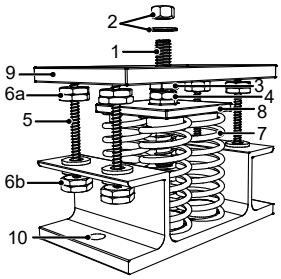
Dimensions

	A(1)	B	C	D	E	F
mm	162	130	225	186	20	16

(1) Unloaded dimension

The ISL range of AV mounts have an optimum deflection of around 38mm (product dependent) and a maximum of 50mm. Please contact Airedale for more details.

Components



1	Locating screw.	6b	Lower retaining nuts.
2	Retaining nut & washer.	7	Spring assembly.
3	Levelling screw.	8	Pressure plate.
4	Levelling lock nut.	9	Top plate.
5	Retaining studs.	10	Fixing holes.
6a	Upper retaining nuts.		

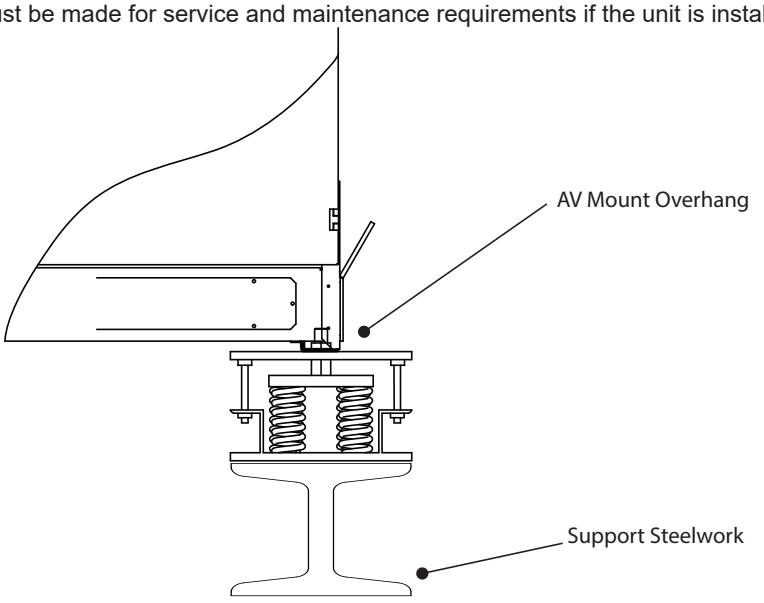
Installation

1. Locate and secure mount using fixing down holes (10) in base plate.
2. Ensure mounts are located in line with the unit base.
3. If applicable, remove compressor enclosure covers to allow access to mount fixing holes in the unit base.
4. Lock the upper retaining nuts (6a) to the underside of the top plate (9) before a load is applied.
5. Slacken levelling lock nut (4); the levelling screw will not move if this is not slackened.
6. Remove retaining nut and washer (2), lower the unit onto the mounts and replace retaining nut and washer.
7. Beginning with the mount with the largest deflection adjust the height of each mount using the levelling screw (3). Mountings must be adjusted incrementally in turn.
8. Do not fully adjust 1 mount at a time as this may overload and damage springs.
9. When all mounts are level, lock each into place using the levelling lock nut (4).
10. Lock all retaining nuts (6a and 6b) to the extreme ends of the retaining studs (5).

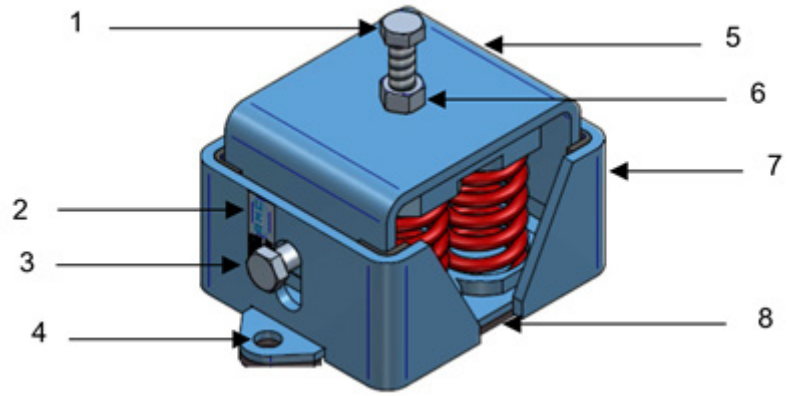
⚠**CAUTION**	Do not connect any services until all anti vibration mounts have been fully adjusted.

Anti Vibration Mount location to Unit and Plinth

The Anti Vibration mount is larger than the unit base. Consideration must be made with regard to steelwork / concrete plinth sizes. Full information is available on the approved General Arrangement drawings. The base of the unit is open. Considerations must be made for service and maintenance requirements if the unit is installed on a gantry.

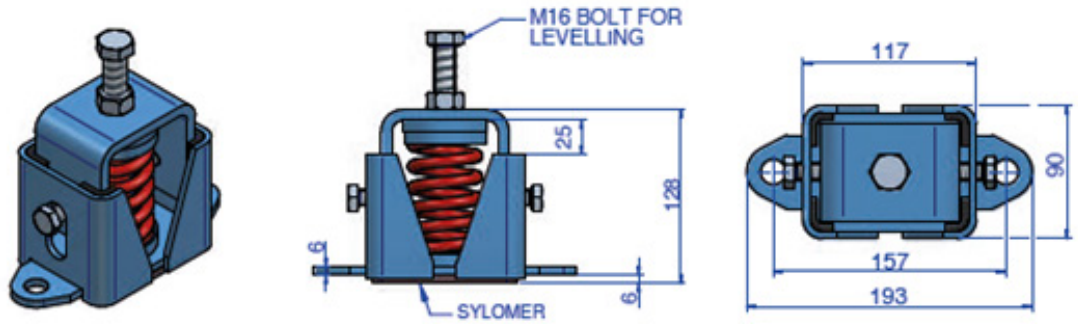


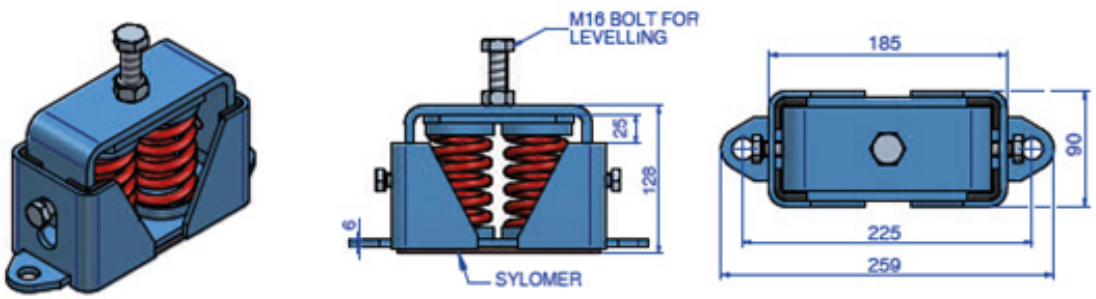
AMC AV Mount Fitting Instructions

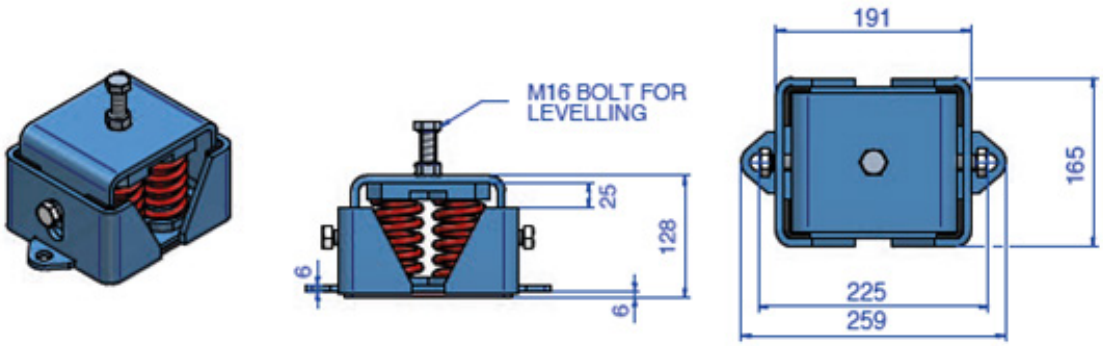


1. Levelling Screw
2. Displacement Gauge
3. Anti-traction Screw
4. Mounting Holes
5. Mount Top Hot
6. Fixing Nut
7. Mount Body
8. Sylomer Base

Mounts may be supplied in either a one, two or four spring variation.
All variations have an optimum deflection of 15mm and a maximum of 22cm.







Please contact Airedale for more details

AMC AV Mount Fitting Instructions

	1 Spring	2 Spring	4 Spring
Mounting Hole Spacing (mm)	157	225	225

Installation

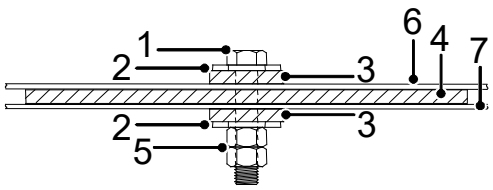
1. Position and secure mount using mounting holes, with displacement gauge facing away from the chiller.
2. Ensure mounts are located in line with the unit base.
3. If applicable, remove compressor enclosure covers to allow access to mount fixing holes in the unit base.
4. Remove the levelling screw and fixing nut from the top housing of the mount.
5. Lower the unit onto the mounts and replace the levelling screw and nut.
6. Starting with the most deflected mount, adjust the height of each mount using the levelling screw.
7. When all mounts are level, lock each into place using the levelling lock nut.

⚠CAUTION	Mountings must be adjusted incrementally in turn. Do not fully adjust 1 mount at a time as this may overload and damage springs. Do not connect any services until all anti vibration mounts have been fully adjusted.

Pad Type

Components

1. M16 Bolt (not supplied).
2. Washer (not supplied).
3. Fixing pad 6173231.
4. Anti vibration pad 6173223.
5. 2 x M16 nut (not supplied).
6. Unit base.
7. Unit mounting plinth.



Installation (steel plinth)

1. Locate the pad type anti vibration mount between the unit base and the unit steel mounting plinth.
2. Locate the M16 bolt through the hole in the unit, AV mount pad and steel mounting plinth.
3. Tighten the M16 nut to the underside of the steel mounting plinth.
4. Tighten the second M16 nut (locking nut) to the underside of the steel mounting plinth.

Installation (concrete plinth)

1. Locate the pad type anti vibration mount between the unit base and the unit concrete mounting plinth.
2. Locate the concrete fixing anchor through the AV mount pad and the hole in the unit.
3. Tighten the anchor bolt.

Installation Data

Electrical

Please refer to the electrical wiring diagrams provided for installation.
ALL work MUST be carried out by technically trained competent personnel.

⚠IMPORTANT	The equipment contains live electrical and moving parts, ISOLATE prior to maintenance or repair work. The unit isolators DO NOT isolate the incoming mains supply, but isolate the individual electrical panels. Isolate REMOTELY the mains incoming supply to the BUSBAR chamber prior to maintenance or repair work.

General

As standard the equipment is designed for 400VAC, 3 phase, 3 wire 50Hz and a separate permanent 230VAC, 1 phase, 50Hz supply, to all relevant IEE regulations, British standards and IEC requirements.
The control voltage to the interlocks is 24V AC, always size the low voltage interlock and protection cabling for a maximum voltage drop of 2V.

⚠CAUTION	Avoid large voltage drops on cable runs, particularly low voltage wiring. The Emergency Stop MUST NOT be used to stop the chiller other than in the event of an emergency.

A separately fused, locally isolated permanent single phase and neutral supply must be fitted for the evaporator trace heating, control circuits, compressor oil heater and leak detection and ventilation systems. Wires should be capable of carrying the maximum load current under non-fault conditions at the stipulated voltage. Failure to do so will invalidate warranty. To reduce down time, support the above supply with a UPS if possible. Ensure correct phase rotation.

Refrigeration

Before running the unit, all shut off valves must be opened. Any packaging must be carefully removed from coils.
Please ensure the removal of the transport bracket prior to operating the compressors. Failure to do so will invalidate warranty.

All variations have a maximum deflection of 22mm. Please contact Airedale for more details

Interconnecting Wiring

DCC / DCF

L1	○	←			Mains incoming supply 400V/3PH/50Hz
L2	○	←			
L3	○	←			
PE	○	←			
L4	○	←			Separate Permanent Supply 230V/1PH/50Hz
N1	○	←	(1)		
PE	○	←			
L4	○	→			External Trace Heating Connections
N1	○	→			240V/500W max
502	○	→			Unit Remote On/Off 24VAC
505	○	←			
500	○	→	(1)		**Evaporator Water Flow Switch 24VAC**
504	○	←			
502	○	→	(1)		**Remote Pump On / Off**
515	○	←			
502	○	→	(1)		**Remote Pump Interlock**
529	○	←			
500	○	→			Remote setpoint adjust
825	○	←			
573	○	←			Volt Free Common Alarm
574	○	→	Non-Critical Alarm		Volt Free Alarm N/O
575	○	→			Volt Free Alarm N/C
576	○	←			Volt Free Common Alarm
577	○	→	Critical Alarm		Volt Free Alarm N/O
578	○	→			Volt Free Alarm N/C
RX-/Tx-	○	←	Use Awg20/22 twisted pair (with overall shield) cable, Belden ref. 8762 (Airedale ref: 6110316), or equivalent, for network		Network Connections In
RX+/Tx+	○	←			
GND	○	←			
RX-/Tx-	○	→	Use Awg20/22 twisted pair (with overall shield) cable, Belden ref. 8762 (Airedale ref: 6110316), or equivalent, for network		Network Connections
RX+/Tx+	○	→			
GND	○	→			

CAUTION

(1) MUST be directly wired to the chiller to validate warranty.

Pre Start Checks

⚠CAUTION	ALL work must be carried out by technically trained competent personnel. The equipment contains live electrical and moving parts, isolate prior to maintenance or repair work.

Water Flow

Make sure that you have the correct water flow rate before turning the unit on (refer to commissioning documentation).

⚠CAUTION	If the unit is operated without water flow the unit will be damaged.

Shut Off Valves

All shut off valves must be opened prior to starting the unit.

Electrical Power Supply

The power supply to the unit must be correct to design. The three phase power must be of correct phase orientation. A permanent single phase supply (L4) provides power to the microprocessor and evaporator trace heater. To reduce down time, support the above supply with a UPS if possible.

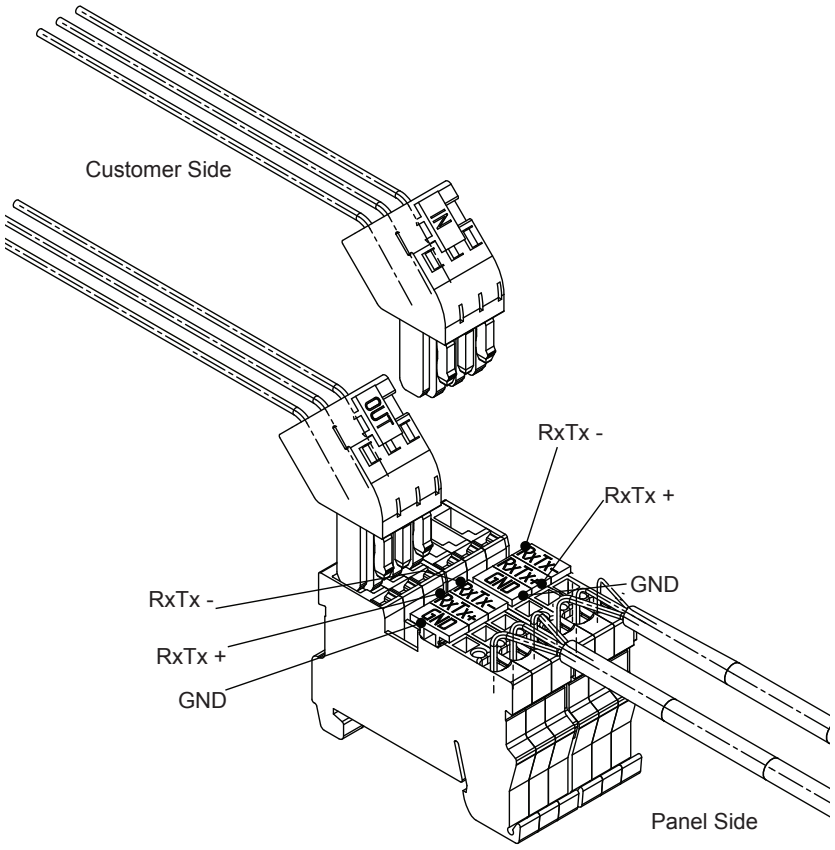
⚠CAUTION	The L4 permanent supply also provides power to the leak detector. Check phase rotation of electrical supply prior to running the compressor as it's direction sensitive.

Visual Inspection

Check that the unit is of satisfactory condition and that it has not been damaged. A damaged component could indicate a reason why the unit is not operating, for example a refrigerant leak.

pLAN Termination

⚠CAUTION	The plugged termination ensures that the connections are made simultaneously. Failure to attach the cables this way may cause damage to the controller.



Appendix - Ecodesign

SEPR (Seasonal Energy Performance Ratio)

- Type of condensing - Air cooled standard EC fans.
- Refrigerant fluid - R32
- Refrigerant GWP - 675 $kgCO_2$
- Operating temperature - +7°C (Outlet water).
- Operating control - Variable.
- Outdoor side heat exchanger - Air.
- Indoor heat exchanger - Water.
- Type driven - Vapour compression.
- Driver of compressor - Electric motor.
- Degradation coefficient - 0.9

Part load conditions for SEPR calculation for air cooled high temperature process chillers

Rating point	Part load ratio (%)	Outdoor side heat exchanger	Indoor side heat exchanger
		Inlet air temperature (°C)	Evaporator inlet/ outlet water temperatures (°C)
			Fixed outlet
A	100	35	12/7
B	93	25	(*)/7
C	87	15	(*)/7
D	80	5	(*)/7

EU 2016/2281 Table 22.

(*) With the water flow rate determined during “A” test for units with a fixed water flow rate.

SSCEE (Seasonal Space Cooling Energy Efficiency)

- Capacity control - Variable.
- Standard rating condition - Low temperature operation.
- Crankcase heater fitted

Air to water comfort chillers

Rating point	T_1 (°C)	Part load ratio (%)	Outdoor air dry bulb temperature (°C)	Fan coil application inlet/ outlet water temperature (°C)		Cooling floor application inlet/ outlet water temperatures (°C)
				Fixed outlet (*)	Variable outlet (*)	
A	35	100 %	35	12/7	12/7	23/18
B	30	74 %	30	(*)/7	(*)/8.5	(*)/18
C	25	47 %	25	(*)/7	(*)/10	(*)/18
D	20	21 %	20	(*)/7	(*)/11.5	(*)/18

EU 2016/2281 Table 21.

(*) With the water flow rate determined during “A” test for units with a fixed water flow rate.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC021DR-04JJK0	DCC026DR-04KKL0	DCC032DR-06KLR0	DCC036DR-06KRR0
SEPR	1, 3, 5		6.2	5.9	6.5	6.3
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	242543	323697	368448	419630
Rated Refrigerant Capacity P_A	1, 3, 5	kW	204.2	258.8	322.1	355.3
Rated Power Input D_A		kW	67.0	88.3	104.9	118.8
Rated $EER_{DC,A}$			3.05	2.93	3.07	2.99
Declared Refrigerant Capacity P_B	1, 3, 5	kW	224.1 / 165.0	285.6 / 214.3	353.8 / 295.7	390.5 / 331.4
Declared Power Input D_B		kW	54.9 / 37.7	73.2 / 51.6	86.3 / 68.5	98.1 / 80.3
Declared $EER_{DC,B}$			4.08 / 4.38	3.90 / 4.15	4.10 / 4.31	3.98 / 4.13
Declared Refrigerant Capacity P_C	1, 3, 5	kW	177.6 / 128.2	231.3 / 163.7	320.0 / 251.1	358.9 / 293.9
Declared Power Input D_C		kW	30.5 / 21.5	42.3 / 28.6	55.2 / 41.9	64.8 / 50.7
Declared $EER_{DC,C}$			5.83 / 5.97	5.47 / 5.72	5.80 / 6.00	5.54 / 5.80
Declared Refrigerant Capacity P_D		kW	189.7 / 136.3	248.0 / 174.4	269.7 / 178.9	315.2 / 239.9
Declared Power Input D_D		kW	23.9 / 17.2	32.9 / 22.9	31.5 / 20.9	38.4 / 28.4
Declared $EER_{DC,D}$			7.95 / 7.94	7.54 / 7.62	8.57 / 8.56	8.22 / 8.45
SSCEE	2, 3, 5	%	183	174	183	186
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	204.5	259.1	322.4	355.7
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	204.2	258.8	322.1	355.3
Declared EER_d 35°C			3.05	2.93	3.07	2.99
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	164.1 / 118.3	212.9 / 150.4	294.9 / 229.1	269.8 / 204.1
Declared EER_d 30°C			3.94 / 4.21	3.75 / 4.06	3.88 / 3.98	3.93 / 4.06
Declared Cooling Capacity 25°C Pdc		kW	129.5 / 53.5	164.7 / 73.3	167.7 / 89.2	223.9 / 153.0
Declared EER_d 25°C			5.09 / 5.00	4.87 / 4.72	5.25 / 4.92	4.91 / 5.30
Declared Cooling Capacity 20°C Pdc		kW	58.5 / 0.0	80.2 / 0.0	97.5 / 0.0	82.0 / 0.0
Declared EER_d 20°C			6.16 / 0	5.80 / 0	6.03 / 0	6.21 / 0
Sound Power Level L		dB(A)	87	89	89	90
Air flow rate		m^3/h	93186	93186	139779	139779
Off mode P_{OFF}			0.078	0.078	0.078	0.078
Thermostat-off mode P_{TO}			0.729	0.865	1.267	1.441
Standby Mode P_{SB}			0.098	0.098	0.104	0.104
Crankcase heater mode P_{CK}			0.090	0.090	0.112	0.134

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC043DR-08KSS0	DCC045DR-08KSQ0	DCC011DR-04JBC0	DCC016DR-04JGG0
SEPR	1, 3, 5		6.4	6.3	7.5	6.4
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	500971	526282	105651	176922
Rated Refrigerant Capacity P_A	1, 3, 5	kW	431.9	445.5	106.6	153.1
Rated Power Input D_A		kW	139.8	145.1	30.1	49.2
Rated $EER_{DC,A}$			3.09	3.07	3.54	3.11
Declared Refrigerant Capacity P_B	1, 3, 5	kW	474.4 / 402.5	416.1 / 299.2	116.7 / 50.0	167.3 / 128.3
Declared Power Input D_B		kW	115.0 / 94.3	98.5 / 66.0	24.2 / 9.9	39.6 / 29.1
Declared $EER_{DC,B}$			4.13 / 4.27	4.22 / 4.53	4.83 / 5.04	4.23 / 4.41
Declared Refrigerant Capacity P_C	1, 3, 5	kW	435.5 / 356.3	447.9 / 320.4	126.2 / 54.0	137.6 / 95.1
Declared Power Input D_C		kW	76.4 / 60.0	79.2 / 54.1	18.8 / 7.7	23.1 / 15.2
Declared $EER_{DC,C}$			5.70 / 5.94	5.65 / 5.92	6.70 / 7.05	5.94 / 6.25
Declared Refrigerant Capacity P_D		kW	381.9 / 290.2	477.6 / 341.0	135.2 / 57.8	146.1 / 100.4
Declared Power Input D_D		kW	46.2 / 34.4	59.6 / 41.8	13.8 / 5.8	17.9 / 12.1
Declared $EER_{DC,D}$			8.27 / 8.44	8.02 / 8.15	9.82 / 9.95	8.16 / 8.28
SSCEE	2, 3, 5	%	189	185	192	186
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	432.3	445.9	106.7	153.4
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	431.9	445.5	106.6	153.1
Declared EER_d 35°C			3.09	3.07	3.54	3.11
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	327.5 / 247.6	416.1 / 295.8	117.5 / 48.5	128.2 / 88.4
Declared EER_d 30°C			4.05 / 4.17	3.80 / 4.10	4.33 / 4.34	3.95 / 4.32
Declared Cooling Capacity 25°C Pdc		kW	271.3 / 185.2	236.6 / 90.7	53.3 / 0.0	96.6 / 47.2
Declared EER_d 25°C			5.03 / 5.38	5.14 / 5.00	5.38 / 0	5.29 / 5.06
Declared Cooling Capacity 20°C Pdc		kW	99.2 / 0.0	99.1 / 0.0	58.1 / 0.0	51.4 / 0.0
Declared EER_d 20°C			6.20 / 0	6.15 / 0	6.69 / 0	6.30 / 0
Sound Power Level L		dB(A)	90	91	80	82
Air flow rate		m^3/h	186373	186373	93186	93186
Off mode P_{OFF}			0.078	0.078	0.078	0.078
Thermostat-off mode P_{TO}			2.022	2.182	0.238	0.440
Standby Mode P_{SB}			0.110	0.110	0.098	0.098
Crankcase heater mode P_{CK}			0.134	0.112	0.045	0.090

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC021DR-06JJK0	DCC027DR-06KKL0	DCC033DR-08KLR0	DCC036DR-08KRR0
SEPR	1, 3, 5		6.9	6.6	7.0	6.8
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	224990	298040	348102	395202
Rated Refrigerant Capacity P_A	1, 3, 5	kW	209.2	267.1	327.8	361.9
Rated Power Input D_A		kW	62.8	82.4	99.9	113.1
Rated $EER_{DC,A}$			3.33	3.24	3.28	3.2
Declared Refrigerant Capacity P_B	1, 3, 5	kW	229.4 / 168.4	293.5 / 219.3	359.8 / 300.3	397.5 / 337.0
Declared Power Input D_B		kW	51.0 / 35.3	67.6 / 48.1	81.8 / 65.3	92.8 / 76.2
Declared $EER_{DC,B}$			4.50 / 4.77	4.34 / 4.56	4.40 / 4.60	4.28 / 4.42
Declared Refrigerant Capacity P_C	1, 3, 5	kW	248.5 / 181.2	236.7 / 166.6	324.8 / 254.5	364.8 / 298.1
Declared Power Input D_C		kW	40.2 / 28.1	38.7 / 26.7	52.0 / 39.6	60.7 / 47.9
Declared $EER_{DC,C}$			6.19 / 6.44	6.11 / 6.24	6.25 / 6.42	6.01 / 6.23
Declared Refrigerant Capacity P_D		kW	193.5 / 138.2	253.9 / 177.4	271.8 / 179.9	319.6 / 242.1
Declared Power Input D_D		kW	21.6 / 15.9	28.9 / 20.9	29.1 / 19.9	35.3 / 26.4
Declared $EER_{DC,D}$			8.95 / 8.68	8.78 / 8.49	9.35 / 9.05	9.06 / 9.16
SSCEE	2, 3, 5	%	196	189	193	195
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	209.6	267.4	328.2	362.3
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	209.2	267.1	327.8	361.9
Declared EER_d 35°C			3.33	3.24	3.28	3.2
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	167.6 / 120.2	218.0 / 153.3	299.7 / 232.5	274.0 / 206.9
Declared EER_d 30°C			4.28 / 4.49	4.10 / 4.37	4.13 / 4.22	4.17 / 4.28
Declared Cooling Capacity 25°C Pdc		kW	131.6 / 54.3	167.9 / 74.6	169.5 / 90.2	226.9 / 154.5
Declared EER_d 25°C			5.47 / 5.31	5.28 / 5.07	5.49 / 5.15	5.21 / 5.54
Declared Cooling Capacity 20°C Pdc		kW	59.3 / 0.0	81.6 / 0.0	98.5 / 0.0	82.8 / 0.0
Declared EER_d 20°C			6.58 / 0	6.31 / 0	6.35 / 0	6.50 / 0
Sound Power Level L		dB(A)	84	87	87	88
Air flow rate		m^3/h	139779	139779	186373	186373
Off mode P_{OFF}			0.078	0.078	0.078	0.078
Thermostat-off mode P_{TO}			0.800	0.940	1.270	1.507
Standby Mode P_{SB}			0.104	0.104	0.110	0.110
Crankcase heater mode P_{CK}			0.090	0.090	0.112	0.134

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC044DR-10KSS0	DCC045DR-10KSQ0	DCC011DR-06JBC0	DCC016DR-06JGG0
SEPR	1, 3, 5		6.8	6.6	8.0	7.0
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	480602	503665	99680	165097
Rated Refrigerant Capacity P_A	1, 3, 5	kW	438	451.7	108.3	156.3
Rated Power Input D_A		kW	134.8	139.8	28.8	46.5
Rated $EER_{DC,A}$			3.25	3.23	3.76	3.36
Declared Refrigerant Capacity P_B	1, 3, 5	kW	480.6 / 407.4	494.3 / 421.1	118.5 / 50.6	170.6 / 130.6
Declared Power Input D_B		kW	110.4 / 90.7	114.3 / 94.7	22.9 / 9.5	36.9 / 27.4
Declared $EER_{DC,B}$			4.35 / 4.49	4.33 / 4.45	5.17 / 5.36	4.63 / 4.77
Declared Refrigerant Capacity P_C	1, 3, 5	kW	440.6 / 360.0	453.0 / 323.4	128.1 / 54.7	139.9 / 96.2
Declared Power Input D_C		kW	72.9 / 57.6	75.3 / 52.0	17.6 / 7.2	21.4 / 14.4
Declared $EER_{DC,C}$			6.05 / 6.25	6.01 / 6.22	7.29 / 7.56	6.53 / 6.68
Declared Refrigerant Capacity P_D		kW	385.6 / 292.1	482.6 / 343.7	135.8 / 58.5	148.5 / 101.5
Declared Power Input D_D		kW	43.6 / 32.8	55.3 / 39.6	12.7 / 5.5	16.3 / 11.4
Declared $EER_{DC,D}$			8.84 / 8.91	8.72 / 8.67	10.66 / 10.70	9.12 / 8.91
SSCEE	2, 3, 5	%	196	193	205	198
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	438.4	452.2	108.4	156.5
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	438	451.7	108.3	156.3
Declared EER_d 35°C			3.25	3.23	3.76	3.36
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	331.3 / 250.1	421.4 / 298.9	119.5 / 49.2	130.5 / 89.5
Declared EER_d 30°C			4.23 / 4.33	4.00 / 4.27	4.63 / 4.60	4.27 / 4.57
Declared Cooling Capacity 25°C Pdc		kW	274.0 / 186.5	238.5 / 91.4	54.0 / 0.0	97.8 / 47.8
Declared EER_d 25°C			5.24 / 5.55	5.35 / 5.14	5.74 / 0	5.64 / 5.38
Declared Cooling Capacity 20°C Pdc		kW	99.9 / 0.0	99.8 / 0.0	59.0 / 0.0	52.0 / 0.0
Declared EER_d 20°C			6.41 / 0	6.35 / 0	7.20 / 0	6.73 / 0
Sound Power Level L		dB(A)	89	89	79	80
Air flow rate		m^3/h	232966	232966	139779	139779
Off mode P_{OFF}			0.078	0.078	0.078	0.078
Thermostat-off mode P_{TO}			2.006	2.164	0.257	0.490
Standby Mode P_{SB}			0.116	0.116	0.104	0.104
Crankcase heater mode P_{CK}			0.134	0.112	0.045	0.090

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC022DR-08JJK0	DCC027DR-08KKL0	DCC033DR-10KLR0	DCC037DR-10KRR0
SEPR	1, 3, 5		7.2	7.1	7.3	7.1
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	216905	284849	337329	380498
Rated Refrigerant Capacity P_A	1, 3, 5	kW	212.1	271.6	331.7	366.5
Rated Power Input D_A		kW	60.6	79.2	97.0	109.4
Rated $EER_{DC,A}$			3.5	3.43	3.42	3.35
Declared Refrigerant Capacity P_B	1, 3, 5	kW	232.4 / 170.2	298.0 / 222.2	363.8 / 303.3	402.2 / 340.7
Declared Power Input D_B		kW	48.9 / 34.0	64.4 / 46.2	78.9 / 63.2	89.4 / 73.6
Declared $EER_{DC,B}$			4.76 / 5.00	4.62 / 4.81	4.61 / 4.80	4.50 / 4.63
Declared Refrigerant Capacity P_C	1, 3, 5	kW	251.5 / 182.9	239.6 / 168.2	327.9 / 256.7	368.6 / 300.8
Declared Power Input D_C		kW	38.1 / 27.0	36.8 / 25.7	49.9 / 38.2	58.0 / 46.0
Declared $EER_{DC,C}$			6.60 / 6.77	6.51 / 6.55	6.58 / 6.73	6.35 / 6.54
Declared Refrigerant Capacity P_D		kW	195.0 / 139.0	254.8 / 178.7	271.8 / 180.2	320.2 / 242.4
Declared Power Input D_D		kW	20.6 / 15.3	27.1 / 19.9	28.0 / 19.3	33.4 / 25.3
Declared $EER_{DC,D}$			9.45 / 9.07	9.40 / 8.99	9.72 / 9.33	9.60 / 9.59
SSCEE	2, 3, 5	%	204	199	200	202
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	212.5	272	332.1	366.9
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	212.1	271.6	331.7	366.5
Declared EER_d 35°C			3.5	3.43	3.42	3.35
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	169.5 / 121.3	221.0 / 155.0	302.9 / 234.7	276.8 / 208.7
Declared EER_d 30°C			4.48 / 4.65	4.33 / 4.55	4.31 / 4.38	4.34 / 4.43
Declared Cooling Capacity 25°C Pdc		kW	132.8 / 54.7	169.6 / 75.4	170.6 / 90.9	228.9 / 155.5
Declared EER_d 25°C			5.69 / 5.49	5.53 / 5.28	5.66 / 5.30	5.42 / 5.70
Declared Cooling Capacity 20°C Pdc		kW	59.7 / 0.0	82.3 / 0.0	99.2 / 0.0	83.3 / 0.0
Declared EER_d 20°C			6.81 / 0	6.62 / 0	6.56 / 0	6.70 / 0
Sound Power Level L		dB(A)	83	86	86	87
Air flow rate		m^3/h	186373	186373	232966	232966
Off mode P_{OFF}			0.078	0.078	0.078	0.078
Thermostat-off mode P_{TO}			0.822	0.953	1.355	1.503
Standby Mode P_{SB}			0.110	0.110	0.116	0.116
Crankcase heater mode P_{CK}			0.090	0.090	0.112	0.134

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC044DR-12KSS0	DCC046DR-12KSQ0
SEPR	1, 3, 5		7.0	6.9
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	467648	488870
Rated Refrigerant Capacity P_A	1, 3, 5	kW	442.4	456.3
Rated Power Input D_A		kW	131.3	135.8
Rated $EER_{DC,A}$			3.37	3.36
Declared Refrigerant Capacity P_B	1, 3, 5	kW	485.1 / 411.0	498.9 / 424.7
Declared Power Input D_B		kW	107.1 / 88.3	110.8 / 92.0
Declared $EER_{DC,B}$			4.53 / 4.65	4.50 / 4.62
Declared Refrigerant Capacity P_C	1, 3, 5	kW	444.3 / 362.6	456.5 / 325.4
Declared Power Input D_C		kW	70.5 / 55.9	72.6 / 50.6
Declared $EER_{DC,C}$			6.30 / 6.48	6.29 / 6.44
Declared Refrigerant Capacity P_D		kW	386.6 / 292.6	484.5 / 344.8
Declared Power Input D_D		kW	41.9 / 31.8	52.4 / 38.2
Declared $EER_{DC,D}$			9.22 / 9.21	9.24 / 9.02
SSCEE	2, 3, 5	%	200	197
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	442.9	456.8
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	442.4	456.3
Declared EER_d 35°C			3.37	3.36
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	334.0 / 251.9	425.2 / 301.1
Declared EER_d 30°C			4.36 / 4.45	4.15 / 4.40
Declared Cooling Capacity 25°C Pdc		kW	275.9 / 187.5	239.9 / 91.8
Declared EER_d 25°C			5.40 / 5.67	5.49 / 5.23
Declared Cooling Capacity 20°C Pdc		kW	100.3 / 0.0	100.3 / 0.0
Declared EER_d 20°C			6.54 / 0	6.47 / 0
Sound Power Level L		dB(A)	88	89
Air flow rate		m^3/h	279559	279559
Off mode P_{OFF}			0.078	0.078
Thermostat-off mode P_{TO}			2.175	2.349
Standby Mode P_{SB}			0.122	0.122
Crankcase heater mode P_{CK}			0.134	0.112

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC043DR-08LXX0	DCC048DR-09NXY0	DCC056DR-10NYY0	DCC057DR-10NYV0
SEPR	1, 3, 5		5.9	5.8	5.7	5.6
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	540104	623634	721197	761614
Rated Refrigerant Capacity P_A	1, 3, 5	kW	427.3	484.3	557.1	575.1
Rated Power Input D_A		kW	139.2	159.8	183.9	194.9
Rated $EER_{DC,A}$			3.07	3.03	3.03	2.95
Declared Refrigerant Capacity P_B	1, 3, 5	kW	469.9 / 394.1	531.3 / 435.0	610.8 / 512.3	630.8 / 525.5
Declared Power Input D_B		kW	113.5 / 92.9	130.7 / 103.7	150.4 / 123.1	159.1 / 128.4
Declared $EER_{DC,B}$			4.14 / 4.24	4.07 / 4.20	4.06 / 4.16	3.96 / 4.09
Declared Refrigerant Capacity P_C	1, 3, 5	kW	427.5 / 345.5	470.3 / 389.0	553.9 / 447.4	565.9 / 459.5
Declared Power Input D_C		kW	77.0 / 59.9	85.6 / 68.6	102.0 / 79.3	106.1 / 83.4
Declared $EER_{DC,C}$			5.55 / 5.77	5.49 / 5.67	5.43 / 5.64	5.33 / 5.51
Declared Refrigerant Capacity P_D		kW	359.2 / 269.2	403.0 / 290.3	464.2 / 348.0	475.4 / 353.2
Declared Power Input D_D		kW	51.5 / 38.9	59.1 / 42.4	68.4 / 51.5	71.9 / 53.4
Declared $EER_{DC,D}$			6.97 / 6.92	6.81 / 6.85	6.78 / 6.76	6.62 / 6.62
SSCEE	2, 3, 5	%	178	179	177	172
SSCEE Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	427.8	484.7	557.6	575.7
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	427.3	484.3	557.1	575.1
Declared EER_d 35°C			3.07	3.03	3.03	2.95
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	317.0 / 238.8	434.4 / 358.3	412.5 / 310.9	525.2 / 425.0
Declared EER_d 30°C			3.93 / 4.01	3.75 / 3.86	3.87 / 3.95	3.66 / 3.77
Declared Cooling Capacity 25°C Pdc		kW	261.5 / 176.4	283.1 / 198.6	339.6 / 229.1	345.0 / 234.3
Declared EER_d 25°C			4.80 / 5.01	4.78 / 4.95	4.71 / 4.94	4.63 / 4.79
Declared Cooling Capacity 20°C Pdc		kW	95.6 / 0.0	216.0 / 94.4	124.0 / 0.0	121.9 / 0.0
Declared EER_d 20°C			5.58 / 0	5.86 / 5.69	5.55 / 0	5.38 / 0
Sound Power Level L		dB(A)	90	91	91	93
Air flow rate		m^3/h	186373	209669	232966	232966
Off mode P_{OFF}			0.137	0.137	0.137	0.137
Thermostat-off mode P_{TO}			1.757	1.376	2.005	2.395
Standby Mode P_{SB}			0.236	0.239	0.242	0.242
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC062TR-11PNXX	DCC063TR-12PXXX	DCC068TR-13PXXY	DCC076TR-14SXYY
SEPR	1, 3, 5		5.6	5.8	5.7	5.7
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	817902	796803	885859	978347
Rated Refrigerant Capacity P_A	1, 3, 5	kW	618.3	626	684.5	756.4
Rated Power Input D_A		kW	207.5	205.9	228.2	250.5
Rated $EER_{DC,A}$			2.98	3.04	3	3.02
Declared Refrigerant Capacity P_B	1, 3, 5	kW	606.4 / 532.0	613.9 / 539.9	656.2 / 582.2	733.0 / 636.7
Declared Power Input D_B		kW	148.6 / 128.2	147.5 / 127.0	158.9 / 138.5	177.8 / 150.7
Declared $EER_{DC,B}$			4.08 / 4.15	4.16 / 4.25	4.13 / 4.20	4.12 / 4.22
Declared Refrigerant Capacity P_C	1, 3, 5	kW	574.2 / 490.8	584.6 / 504.7	629.2 / 549.2	688.1 / 606.9
Declared Power Input D_C		kW	105.6 / 90.2	104.8 / 87.9	114.2 / 97.3	124.4 / 107.4
Declared $EER_{DC,C}$			5.44 / 5.44	5.58 / 5.74	5.51 / 5.65	5.53 / 5.65
Declared Refrigerant Capacity P_D		kW	511.8 / 423.5	523.1 / 435.8	568.3 / 458.4	628.4 / 515.7
Declared Power Input D_D		kW	77.2 / 64.6	75.6 / 63.1	83.8 / 67.2	92.6 / 75.9
Declared $EER_{DC,D}$			6.63 / 6.56	6.92 / 6.91	6.78 / 6.82	6.78 / 6.80
SSCEE	2, 3, 5	%	172	182	180	179
SSCEE Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 2 (2021)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	618.8	626.4	685	756.9
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	618.3	626	684.5	756.4
Declared EER_d 35°C			2.98	3.04	3	3.02
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	529.5 / 451.6	464.3 / 387.9	507.1 / 409.6	635.1 / 559.1
Declared EER_d 30°C			3.70 / 3.70	3.90 / 3.95	3.85 / 3.93	3.78 / 3.85
Declared Cooling Capacity 25°C Pdc		kW	294.1 / 206.4	341.6 / 258.7	365.1 / 282.3	393.9 / 309.6
Declared EER_d 25°C			4.85 / 4.70	4.85 / 5.04	4.81 / 4.97	4.81 / 4.94
Declared Cooling Capacity 20°C Pdc		kW	224.3 / 0.0	187.6 / 93.5	187.5 / 93.4	215.0 / 93.9
Declared EER_d 20°C			5.56 / 0	5.89 / 5.62	5.87 / 5.59	5.77 / 5.51
Sound Power Level L		dB(A)	92	92	92	92
Air flow rate		m³/h	256262	279559	302855	326152
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			1.272	1.238	1.495	1.793
Standby Mode P_{SB}			0.280	0.295	0.298	0.301
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
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Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC083TR-15SYYY	DCC086TR-15SYVV	DCC088TR-15SVVV	DCC092TR-15SVVW
SEPR	1, 3, 5		5.7	5.6	5.5	5.6
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 1 (2018)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	1078645	1145681	1187029	1227793
Rated Refrigerant Capacity P_A	1, 3, 5	kW	833.8	861.8	880.6	922.4
Rated Power Input D_A		kW	275.2	295.1	306.8	321.4
Rated $EER_{DC,A}$			3.03	2.92	2.87	2.87
Declared Refrigerant Capacity P_B	1, 3, 5	kW	815.8 / 717.5	841.1 / 737.1	861.5 / 757.5	900.3 / 794.6
Declared Power Input D_B		kW	197.8 / 170.5	210.0 / 179.4	218.3 / 187.8	226.8 / 196.1
Declared $EER_{DC,B}$			4.13 / 4.21	4.01 / 4.11	3.95 / 4.03	3.97 / 4.05
Declared Refrigerant Capacity P_C	1, 3, 5	kW	775.2 / 669.0	792.0 / 686.9	811.5 / 699.8	855.4 / 741.7
Declared Power Input D_C		kW	141.1 / 118.5	147.6 / 125.0	153.9 / 128.8	161.1 / 135.8
Declared $EER_{DC,C}$			5.49 / 5.65	5.37 / 5.50	5.27 / 5.43	5.31 / 5.46
Declared Refrigerant Capacity P_D		kW	693.7 / 577.9	709.5 / 589.1	721.6 / 601.2	770.8 / 630.9
Declared Power Input D_D		kW	102.1 / 85.3	107.4 / 89.0	110.5 / 92.1	115.6 / 94.7
Declared $EER_{DC,D}$			6.79 / 6.78	6.61 / 6.62	6.53 / 6.53	6.67 / 6.66
SSCEE	2, 3, 5	%	177	175	173	173
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	834.4	862.3	881.2	923
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	833.8	861.8	880.6	922.4
Declared EER_d 35°C			3.03	2.92	2.87	2.87
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	715.8 / 615.9	638.3 / 531.1	652.5 / 545.3	686.0 / 565.7
Declared EER_d 30°C			3.77 / 3.86	3.75 / 3.82	3.71 / 3.77	3.71 / 3.80
Declared Cooling Capacity 25°C Pdc		kW	450.6 / 340.3	463.2 / 354.5	478.4 / 362.3	499.2 / 381.0
Declared EER_d 25°C			4.76 / 4.93	4.71 / 4.87	4.63 / 4.83	4.66 / 4.84
Declared Cooling Capacity 20°C Pdc		kW	245.2 / 121.7	253.3 / 122.2	261.3 / 130.2	264.5 / 131.6
Declared EER_d 20°C			5.68 / 5.33	5.69 / 5.48	5.61 / 5.36	5.63 / 5.35
Sound Power Level L		dB(A)	93	95	95	95
Air flow rate		m^3/h	349449	349449	349449	349449
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			2.504	1.976	2.061	2.325
Standby Mode P_{SB}			0.304	0.304	0.304	0.304
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC095TR-15SVWW	DCC098TR-15SWWW	DCC043DR-10LXX0	DCC049DR-11NXY0
SEPR	1, 3, 5		5.6	5.5	6.0	5.9
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	1267607	1309781	532559	615490
Rated Refrigerant Capacity P_A	1, 3, 5	kW	950.7	979.1	433.1	490.2
Rated Power Input D_A		kW	334.8	348.4	134.1	154.6
Rated $EER_{DC,A}$			2.84	2.81	3.23	3.17
Declared Refrigerant Capacity P_B	1, 3, 5	kW	934.9 / 818.7	969.6 / 853.3	475.7 / 398.7	537.4 / 439.5
Declared Power Input D_B		kW	238.9 / 203.5	251.0 / 215.6	109.3 / 89.8	126.3 / 100.4
Declared $EER_{DC,B}$			3.91 / 4.02	3.86 / 3.96	4.35 / 4.44	4.26 / 4.38
Declared Refrigerant Capacity P_C	1, 3, 5	kW	884.1 / 770.5	924.4 / 799.2	432.1 / 348.8	474.9 / 392.2
Declared Power Input D_C		kW	167.2 / 141.9	177.4 / 148.0	74.5 / 58.3	83.0 / 66.9
Declared $EER_{DC,C}$			5.29 / 5.43	5.21 / 5.40	5.80 / 5.99	5.72 / 5.86
Declared Refrigerant Capacity P_D		kW	804.7 / 664.8	838.6 / 698.7	359.2 / 269.2	402.9 / 290.3
Declared Power Input D_D		kW	120.1 / 99.2	124.6 / 103.7	51.1 / 38.7	58.8 / 42.2
Declared $EER_{DC,D}$			6.70 / 6.70	6.73 / 6.74	7.02 / 6.95	6.86 / 6.88
SSCEE	2, 3, 5	%	172	170	184	184
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	951.3	979.7	433.6	490.6
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	950.7	979.1	433.1	490.2
Declared EER_d 35°C			2.84	2.81	3.23	3.17
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	709.2 / 589.0	732.4 / 612.2	320.5 / 241.1	439.3 / 361.9
Declared EER_d 30°C			3.68 / 3.75	3.64 / 3.70	4.10 / 4.15	3.92 / 4.01
Declared Cooling Capacity 25°C Pdc		kW	512.9 / 394.8	538.6 / 408.6	264.0 / 177.6	285.6 / 199.8
Declared EER_d 25°C			4.64 / 4.81	4.56 / 4.78	4.98 / 5.13	4.94 / 5.07
Declared Cooling Capacity 20°C Pdc		kW	280.1 / 131.6	295.6 / 147.2	96.2 / 0.0	217.3 / 95.0
Declared EER_d 20°C			5.59 / 5.31	5.56 / 5.28	5.70 / 0	5.99 / 5.82
Sound Power Level L		dB(A)	96	96	88	89
Air flow rate		m^3/h	349449	349449	232966	256262
Off mode P_{OFF}			0.149	0.149	0.137	0.137
Thermostat-off mode P_{TO}			2.498	2.679	1.909	1.393
Standby Mode P_{SB}			0.304	0.304	0.242	0.245
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC056DR-12NYY0	DCC058DR-12NYV0	DCC063TR-14PNXX	DCC063TR-15PXXX
SEPR	1, 3, 5		5.9	5.7	5.9	6.0
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	712042	752042	797369	785772
Rated Refrigerant Capacity P_A	1, 3, 5	kW	563.6	581.9	629.9	634.3
Rated Power Input D_A		kW	177.8	188.3	198.7	198.8
Rated $EER_{DC,A}$			3.17	3.09	3.17	3.19
Declared Refrigerant Capacity P_B	1, 3, 5	kW	617.8 / 517.6	637.8 / 530.9	615.2 / 539.0	621.0 / 545.8
Declared Power Input D_B		kW	145.6 / 119.5	153.8 / 124.6	142.2 / 122.8	142.3 / 122.9
Declared $EER_{DC,B}$			4.24 / 4.33	4.15 / 4.26	4.33 / 4.39	4.36 / 4.44
Declared Refrigerant Capacity P_C	1, 3, 5	kW	559.2 / 451.0	570.9 / 462.9	581.2 / 496.7	590.5 / 509.2
Declared Power Input D_C		kW	99.0 / 77.4	103.0 / 81.4	101.3 / 86.5	101.5 / 85.5
Declared $EER_{DC,C}$			5.65 / 5.83	5.54 / 5.69	5.74 / 5.74	5.82 / 5.96
Declared Refrigerant Capacity P_D		kW	464.2 / 348.0	475.3 / 353.2	511.7 / 423.4	523.1 / 435.8
Declared Power Input D_D		kW	67.9 / 51.3	71.3 / 53.2	75.1 / 62.8	75.1 / 62.7
Declared $EER_{DC,D}$			6.83 / 6.78	6.66 / 6.65	6.81 / 6.74	6.97 / 6.95
SSCEE	2, 3, 5	%	181	176	180	187
SSCEE Tier			Tier 2 (2021)	Tier 1 (2018)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	564.1	582.5	630.4	634.7
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	563.6	581.9	629.9	634.3
Declared EER_d 35°C			3.17	3.09	3.17	3.19
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	517.4 / 416.4	530.8 / 429.0	538.1 / 458.9	545.3 / 469.3
Declared EER_d 30°C			3.89 / 4.00	3.82 / 3.91	3.92 / 3.92	3.98 / 4.06
Declared Cooling Capacity 25°C Pdc		kW	342.3 / 230.5	347.7 / 235.7	296.8 / 208.5	344.6 / 260.5
Declared EER_d 25°C			4.86 / 5.04	4.77 / 4.90	5.03 / 4.89	5.02 / 5.17
Declared Cooling Capacity 20°C Pdc		kW	124.7 / 0.0	122.6 / 0.0	226.5 / 0.0	188.9 / 94.1
Declared EER_d 20°C			5.65 / 0	5.47 / 0	5.78 / 0	6.03 / 5.74
Sound Power Level L		dB(A)	89	90	91	90
Air flow rate		m³/h	279559	279559	326152	349449
Off mode P_{OFF}			0.137	0.137	0.149	0.149
Thermostat-off mode P_{TO}			2.032	2.436	1.587	1.589
Standby Mode P_{SB}			0.248	0.248	0.289	0.304
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC069TR-16PXXY	DCC076TR-17SXYY	DCC084TR-18SYYY	DCC087TR-18SYVV
SEPR	1, 3, 5		5.9	5.9	5.9	5.7
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	874663	966161	1064458	1129760
Rated Refrigerant Capacity P_A	1, 3, 5	kW	692.5	765	843.6	871.7
Rated Power Input D_A		kW	220.5	242.9	266.1	285.8
Rated $EER_{DC,A}$			3.14	3.15	3.17	3.05
Declared Refrigerant Capacity P_B	1, 3, 5	kW	662.7 / 587.7	740.4 / 642.6	824.7 / 724.7	849.5 / 744.0
Declared Power Input D_B		kW	153.8 / 134.4	172.3 / 146.4	191.7 / 165.6	203.1 / 174.0
Declared $EER_{DC,B}$			4.31 / 4.37	4.30 / 4.39	4.30 / 4.38	4.18 / 4.28
Declared Refrigerant Capacity P_C	1, 3, 5	kW	634.5 / 553.5	693.9 / 611.5	782.3 / 674.4	798.5 / 691.8
Declared Power Input D_C		kW	111.0 / 94.8	121.1 / 104.8	137.1 / 115.5	143.2 / 121.7
Declared $EER_{DC,C}$			5.72 / 5.84	5.73 / 5.83	5.70 / 5.84	5.57 / 5.68
Declared Refrigerant Capacity P_D		kW	568.3 / 458.4	628.3 / 515.6	693.6 / 577.9	709.4 / 589.0
Declared Power Input D_D		kW	83.3 / 66.8	92.0 / 75.5	101.4 / 84.7	106.5 / 88.4
Declared $EER_{DC,D}$			6.82 / 6.86	6.83 / 6.83	6.84 / 6.82	6.66 / 6.66
SSCEE	2, 3, 5	%	185	184	182	181
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	693	765.5	844.2	872.2
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	692.5	765	843.6	871.7
Declared EER_d 35°C			3.14	3.15	3.17	3.05
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	587.6 / 511.9	641.5 / 564.3	723.1 / 621.7	744.0 / 644.3
Declared EER_d 30°C			3.92 / 4.00	3.93 / 3.99	3.92 / 4.00	3.83 / 3.89
Declared Cooling Capacity 25°C Pdc		kW	367.9 / 284.1	396.9 / 311.4	453.9 / 342.3	466.6 / 356.5
Declared EER_d 25°C			4.96 / 5.09	4.96 / 5.05	4.90 / 5.04	4.85 / 4.98
Declared Cooling Capacity 20°C Pdc		kW	188.8 / 94.0	216.3 / 94.5	246.6 / 122.4	254.7 / 122.9
Declared EER_d 20°C			6.01 / 5.70	5.89 / 5.62	5.80 / 5.43	5.81 / 5.60
Sound Power Level L		dB(A)	90	91	91	92
Air flow rate		m^3/h	372745	396042	419338	419338
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			1.556	1.890	2.596	2.051
Standby Mode P_{SB}			0.307	0.310	0.313	0.313
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC089TR-18SVVV	DCC094TR-18SVVW	DCC097TR-18SVWW	DCC100TR-18SWWW
SEPR	1, 3, 5		5.6	5.7	5.7	5.7
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	1169963	1213112	1254699	1298593
Rated Refrigerant Capacity P_A	1, 3, 5	kW	890.7	936.4	967.8	999.2
Rated Power Input D_A		kW	295.9	311.1	324.8	337.6
Rated $EER_{DC,A}$			3.01	3.01	2.98	2.96
Declared Refrigerant Capacity P_B	1, 3, 5	kW	870.1 / 764.5	909.8 / 802.5	944.9 / 827.1	980.1 / 862.3
Declared Power Input D_B		kW	211.0 / 181.9	219.2 / 189.9	230.7 / 197.0	242.2 / 208.5
Declared $EER_{DC,B}$			4.12 / 4.20	4.15 / 4.23	4.10 / 4.20	4.05 / 4.14
Declared Refrigerant Capacity P_C	1, 3, 5	kW	817.8 / 704.5	862.9 / 747.6	892.4 / 777.2	934.2 / 806.8
Declared Power Input D_C		kW	149.2 / 125.4	156.1 / 132.1	161.9 / 137.9	171.6 / 143.8
Declared $EER_{DC,C}$			5.48 / 5.62	5.53 / 5.66	5.51 / 5.64	5.44 / 5.61
Declared Refrigerant Capacity P_D		kW	721.5 / 601.2	770.7 / 630.9	804.6 / 664.8	838.5 / 698.6
Declared Power Input D_D		kW	109.6 / 91.5	114.4 / 94.0	118.7 / 98.3	123.0 / 102.6
Declared $EER_{DC,D}$			6.58 / 6.57	6.73 / 6.71	6.78 / 6.76	6.82 / 6.81
SSCEE	2, 3, 5	%	178	178	177	176
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	891.3	937	968.4	999.9
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	890.7	936.4	967.8	999.2
Declared EER_d 35°C			3.01	3.01	2.98	2.96
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	764.8 / 658.7	801.2 / 692.8	716.4 / 594.5	740.1 / 618.2
Declared EER_d 30°C			3.76 / 3.85	3.77 / 3.86	3.82 / 3.89	3.79 / 3.84
Declared Cooling Capacity 25°C Pdc		kW	481.9 / 364.3	503.0 / 383.4	517.0 / 397.4	543.2 / 411.4
Declared EER_d 25°C			4.77 / 4.94	4.80 / 4.96	4.79 / 4.93	4.71 / 4.90
Declared Cooling Capacity 20°C Pdc		kW	262.6 / 130.9	265.9 / 132.3	281.8 / 132.3	297.6 / 148.2
Declared EER_d 20°C			5.74 / 5.47	5.75 / 5.45	5.72 / 5.40	5.70 / 5.39
Sound Power Level L		dB(A)	93	94	94	95
Air flow rate		m^3/h	419338	419338	419338	419338
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			2.142	2.450	2.651	2.861
Standby Mode P_{SB}			0.313	0.313	0.313	0.313
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC044DR-12LXX0	DCC049DR-13NXY0	DCC057DR-14NYY0	DCC059DR-14NYV0
SEPR	1, 3, 5		6.1	6.0	6.0	5.8
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	527597	609768	706046	746086
Rated Refrigerant Capacity P_A	1, 3, 5	kW	437.6	494.9	568.7	587.3
Rated Power Input D_A		kW	130.2	150.9	173.4	184.1
Rated $EER_{DC,A}$			3.36	3.28	3.28	3.19
Declared Refrigerant Capacity P_B	1, 3, 5	kW	480.4 / 402.3	542.2 / 443.1	622.9 / 521.6	642.9 / 534.8
Declared Power Input D_B		kW	106.3 / 87.5	122.9 / 98.0	142.0 / 116.8	149.9 / 121.8
Declared $EER_{DC,B}$			4.52 / 4.60	4.41 / 4.52	4.39 / 4.46	4.29 / 4.39
Declared Refrigerant Capacity P_C	1, 3, 5	kW	435.9 / 351.3	478.6 / 394.5	563.1 / 453.7	574.6 / 465.4
Declared Power Input D_C		kW	72.6 / 57.1	81.1 / 65.6	96.9 / 76.0	100.8 / 79.9
Declared $EER_{DC,C}$			6.00 / 6.16	5.90 / 6.02	5.81 / 5.97	5.70 / 5.82
Declared Refrigerant Capacity P_D		kW	359.1 / 269.2	403.0 / 290.3	464.2 / 348.0	475.3 / 353.2
Declared Power Input D_D		kW	51.0 / 38.6	58.5 / 42.1	67.7 / 51.2	71.1 / 53.1
Declared $EER_{DC,D}$			7.05 / 6.97	6.89 / 6.89	6.86 / 6.80	6.69 / 6.65
SSCEE	2, 3, 5	%	188	188	185	180
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	438.1	495.4	569.2	587.9
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	437.6	494.9	568.7	587.3
Declared EER_d 35°C			3.36	3.28	3.28	3.19
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	402.2 / 323.2	443.2 / 364.6	521.6 / 419.3	535.1 / 432.1
Declared EER_d 30°C			4.13 / 4.22	4.06 / 4.13	4.01 / 4.11	3.94 / 4.02
Declared Cooling Capacity 25°C Pdc		kW	265.9 / 178.6	287.4 / 200.7	344.4 / 231.5	349.8 / 236.7
Declared EER_d 25°C			5.11 / 5.22	5.06 / 5.15	4.97 / 5.12	4.88 / 4.97
Declared Cooling Capacity 20°C Pdc		kW	96.7 / 0.0	218.3 / 95.5	125.2 / 0.0	256.6 / 123.1
Declared EER_d 20°C			5.78 / 0	6.09 / 5.91	5.72 / 0	5.85 / 5.53
Sound Power Level L		dB(A)	87	88	88	89
Air flow rate		m^3/h	279559	302855	326152	326152
Off mode P_{OFF}			0.137	0.137	0.137	0.137
Thermostat-off mode P_{TO}			1.942	1.439	2.096	2.512
Standby Mode P_{SB}			0.248	0.251	0.254	0.254
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC064TR-17PNXX	DCC064TR-18PXXX	DCC070TR-19PXXY	DCC077TR-20SXYY
SEPR	1, 3, 5		6.0	6.1	6.0	6.0
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	784485	776281	865938	956491
Rated Refrigerant Capacity P_A	1, 3, 5	kW	636.8	640.9	699.7	772.5
Rated Power Input D_A		kW	192.4	193.0	214.0	236.2
Rated $EER_{DC,A}$			3.31	3.32	3.27	3.27
Declared Refrigerant Capacity P_B	1, 3, 5	kW	620.7 / 543.7	626.7 / 550.4	669.0 / 592.7	747.0 / 647.9
Declared Power Input D_B		kW	137.9 / 119.2	138.3 / 119.7	149.7 / 131.1	167.9 / 143.0
Declared $EER_{DC,B}$			4.50 / 4.56	4.53 / 4.60	4.47 / 4.52	4.45 / 4.53
Declared Refrigerant Capacity P_C	1, 3, 5	kW	585.1 / 500.1	594.8 / 512.2	639.5 / 556.9	699.3 / 615.3
Declared Power Input D_C		kW	98.3 / 84.0	98.8 / 83.4	108.2 / 92.8	118.2 / 102.7
Declared $EER_{DC,C}$			5.95 / 5.95	6.02 / 6.14	5.91 / 6.00	5.92 / 5.99
Declared Refrigerant Capacity P_D		kW	511.8 / 423.4	523.1 / 435.8	568.2 / 458.3	628.4 / 515.6
Declared Power Input D_D		kW	74.2 / 61.9	74.6 / 62.3	83.0 / 66.6	91.6 / 75.2
Declared $EER_{DC,D}$			6.89 / 6.84	7.02 / 7.00	6.85 / 6.88	6.86 / 6.85

SSCEE	2, 3, 5	%	186	193	189	188
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	637.2	641.3	700.2	773.1
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	636.8	640.9	699.7	772.5
Declared EER_d 35°C			3.31	3.32	3.27	3.27
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	543.2 / 463.3	550.2 / 473.1	592.9 / 516.0	647.1 / 568.5
Declared EER_d 30°C			4.08 / 4.08	4.12 / 4.20	4.06 / 4.12	4.06 / 4.11
Declared Cooling Capacity 25°C Pdc		kW	419.2 / 298.6	346.8 / 261.8	370.3 / 285.4	399.3 / 312.8
Declared EER_d 25°C			4.89 / 5.18	5.16 / 5.29	5.08 / 5.18	5.07 / 5.14
Declared Cooling Capacity 20°C Pdc		kW	227.9 / 0.0	189.8 / 94.6	189.7 / 94.5	217.3 / 95.0
Declared EER_d 20°C			5.96 / 0	6.19 / 5.91	6.12 / 5.79	5.99 / 5.70
Sound Power Level L		dB(A)	89	89	89	90
Air flow rate		m^3/h	396042	419338	442635	465931
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			1.357	1.306	1.633	1.960
Standby Mode P_{SB}			0.298	0.313	0.316	0.319
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC085TR-21SYYY	DCC088TR-21SYVV	DCC090TR-21SVVV	DCC094TR-21SVVW
SEPR	1, 3, 5		6.0	5.8	5.7	5.8
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	1055791	1120612	1160531	1201406
Rated Refrigerant Capacity P_A	1, 3, 5	kW	851.1	879.9	899.2	945.4
Rated Power Input D_A		kW	259.5	278.4	288.2	302.0
Rated $EER_{DC,A}$			3.28	3.16	3.12	3.13
Declared Refrigerant Capacity P_B	1, 3, 5	kW	831.1 / 730.0	855.9 / 749.2	876.5 / 769.8	917.1 / 808.6
Declared Power Input D_B		kW	187.3 / 162.1	198.2 / 170.2	205.8 / 177.7	213.5 / 185.4
Declared $EER_{DC,B}$			4.44 / 4.50	4.32 / 4.40	4.26 / 4.33	4.29 / 4.36
Declared Refrigerant Capacity P_C	1, 3, 5	kW	787.4 / 678.3	803.2 / 695.3	822.3 / 707.8	868.5 / 752.0
Declared Power Input D_C		kW	134.3 / 113.5	140.2 / 119.5	146.0 / 123.0	152.5 / 129.4
Declared $EER_{DC,C}$			5.86 / 5.98	5.73 / 5.82	5.63 / 5.75	5.69 / 5.81
Declared Refrigerant Capacity P_D		kW	693.6 / 577.8	709.3 / 589.0	721.5 / 601.1	770.7 / 630.9
Declared Power Input D_D		kW	101.0 / 84.5	106.1 / 88.2	109.2 / 91.2	113.9 / 93.8
Declared $EER_{DC,D}$			6.86 / 6.83	6.68 / 6.68	6.61 / 6.59	6.77 / 6.73
SSCEE	2, 3, 5	%	185	184	182	182
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	851.8	880.4	899.8	946
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	851.1	879.9	899.2	945.4
Declared EER_d 35°C			3.28	3.16	3.12	3.13
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	728.7 / 626.0	749.7 / 648.8	771.0 / 663.3	807.8 / 698.0
Declared EER_d 30°C			4.04 / 4.11	3.94 / 4.00	3.88 / 3.96	3.90 / 3.97
Declared Cooling Capacity 25°C Pdc		kW	456.4 / 343.7	469.1 / 358.0	484.5 / 365.8	505.9 / 385.1
Declared EER_d 25°C			5.00 / 5.11	4.96 / 5.07	4.88 / 5.02	4.92 / 5.04
Declared Cooling Capacity 20°C Pdc		kW	247.6 / 122.9	255.7 / 123.4	263.6 / 131.4	267.0 / 132.9
Declared EER_d 20°C			5.88 / 5.49	5.89 / 5.66	5.82 / 5.53	5.83 / 5.51
Sound Power Level L		dB(A)	90	91	92	93
Air flow rate		m^3/h	489228	489228	489228	489228
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			2.713	2.162	2.260	2.595
Standby Mode P_{SB}			0.322	0.322	0.322	0.322
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (RQ)

	Notes	Units	DCC098TR-21SVWW	DCC101TR-21SWWW
SEPR	1, 3, 5		5.8	5.8
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	1241077	1282793
Rated Refrigerant Capacity P_A	1, 3, 5	kW	976.8	1008.2
Rated Power Input D_A		kW	315.1	328.4
Rated $EER_{DC,A}$			3.1	3.07
Declared Refrigerant Capacity P_B	1, 3, 5	kW	953.2 / 833.7	989.2 / 869.7
Declared Power Input D_B		kW	224.7 / 192.3	235.8 / 203.4
Declared $EER_{DC,B}$			4.24 / 4.34	4.20 / 4.28
Declared Refrigerant Capacity P_C	1, 3, 5	kW	898.7 / 782.3	941.7 / 812.5
Declared Power Input D_C		kW	158.1 / 135.0	167.4 / 140.7
Declared $EER_{DC,C}$			5.68 / 5.79	5.63 / 5.78
Declared Refrigerant Capacity P_D		kW	804.5 / 664.7	838.3 / 698.5
Declared Power Input D_D		kW	118.1 / 97.9	122.3 / 102.1
Declared $EER_{DC,D}$			6.81 / 6.79	6.86 / 6.84
SSCEE	2, 3, 5	%	181	179
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	977.4	1008.9
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	976.8	1008.2
Declared EER_d 35°C			3.1	3.07
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	831.8 / 722.1	866.6 / 746.1
Declared EER_d 30°C			3.87 / 3.94	3.82 / 3.91
Declared Cooling Capacity 25°C Pdc		kW	520.0 / 399.3	546.8 / 413.5
Declared EER_d 25°C			4.90 / 5.02	4.83 / 4.99
Declared Cooling Capacity 20°C Pdc		kW	283.1 / 132.8	299.1 / 148.9
Declared EER_d 20°C			5.81 / 5.46	5.79 / 5.46
Sound Power Level L		dB(A)	93	93
Air flow rate		m^3/h	489228	489228
Off mode P_{OFF}			0.149	0.149
Thermostat-off mode P_{TO}			2.808	3.031
Standby Mode P_{SB}			0.322	0.322
Crankcase heater mode P_{CK}			0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (XQ)

	Notes	Units	DCC043DX-10LXX0	DCC048DX-11NXY0
SEPR	1, 3, 5		6.0	5.9
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	523490	603628
Rated Refrigerant Capacity P_A	1, 3, 5	kW	426.3	481.4
Rated Power Input D_A		kW	133.2	154.3
Rated $EER_{DC,A}$			3.2	3.12
Declared Refrigerant Capacity P_B	1, 3, 5	kW	472.2 / 396.9	532.6 / 437.8
Declared Power Input D_B		kW	108.9 / 89.5	125.8 / 100.2
Declared $EER_{DC,B}$			4.34 / 4.43	4.23 / 4.37
Declared Refrigerant Capacity P_C	1, 3, 5	kW	431.7 / 348.8	474.3 / 392.0
Declared Power Input D_C		kW	74.3 / 58.2	82.9 / 66.8
Declared $EER_{DC,C}$			5.81 / 5.99	5.72 / 5.87
Declared Refrigerant Capacity P_D		kW	359.2 / 269.3	402.9 / 290.3
Declared Power Input D_D		kW	51.1 / 38.6	58.7 / 42.2
Declared $EER_{DC,D}$			7.03 / 6.97	6.86 / 6.89
SSCEE	2, 3, 5	%	184	185
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	426.8	481.8
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	426.3	481.4
Declared EER_d 35°C			3.2	3.12
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	320.5 / 241.1	361.9 / 261.1
Declared EER_d 30°C			4.10 / 4.16	4.02 / 4.12
Declared Cooling Capacity 25°C Pdc		kW	264.0 / 177.7	285.6 / 199.9
Declared EER_d 25°C			4.98 / 5.14	4.94 / 5.08
Declared Cooling Capacity 20°C Pdc		kW	96.2 / 0.0	217.3 / 95.0
Declared EER_d 20°C			5.72 / 0	6.00 / 5.84
Sound Power Level L		dB(A)	86	87
Air flow rate		m³/h	160142	176157
Off mode P_{OFF}			0.137	0.137
Thermostat-off mode P_{TO}			1.847	1.341
Standby Mode P_{SB}			0.242	0.245
Crankcase heater mode P_{CK}			0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (XQ)

	Notes	Units	DCC055DX-12NYY0	DCC057DX-12NYV0	DCC062TX-14PNXX	DCC063TX-15PXXX
SEPR	1, 3, 5		5.9	5.7	5.8	6.0
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	696376	731674	782926	773227
Rated Refrigerant Capacity P_A	1, 3, 5	kW	551.8	567.1	617.3	624.9
Rated Power Input D_A		kW	177.4	188.4	198.5	197.8
Rated $EER_{DC,A}$			3.11	3.01	3.11	3.16
Declared Refrigerant Capacity P_B	1, 3, 5	kW	610.6 / 514.0	628.8 / 527.3	609.7 / 535.1	617.8 / 544.0
Declared Power Input D_B		kW	145.0 / 119.2	153.4 / 124.2	142.0 / 122.7	141.9 / 122.6
Declared $EER_{DC,B}$			4.21 / 4.31	4.10 / 4.25	4.30 / 4.36	4.36 / 4.44
Declared Refrigerant Capacity P_C	1, 3, 5	kW	557.4 / 451.0	569.1 / 462.7	579.4 / 494.9	590.2 / 509.2
Declared Power Input D_C		kW	98.8 / 77.3	102.7 / 81.2	101.1 / 86.3	101.4 / 85.4
Declared $EER_{DC,C}$			5.64 / 5.83	5.54 / 5.70	5.73 / 5.73	5.82 / 5.96
Declared Refrigerant Capacity P_D		kW	464.2 / 348.0	475.3 / 353.2	511.8 / 423.4	523.1 / 435.8
Declared Power Input D_D		kW	67.8 / 51.2	71.2 / 53.0	75.1 / 62.7	75.0 / 62.6
Declared $EER_{DC,D}$			6.84 / 6.80	6.68 / 6.66	6.82 / 6.75	6.97 / 6.96

SSCEE	2, 3, 5	%	182	177	179	187
SSCEE Tier			Tier 2 (2021)	Tier 1 (2018)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	552.3	567.7	617.8	625.3
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	551.8	567.1	617.3	624.9
Declared EER_d 35°C			3.11	3.01	3.11	3.16
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	416.5 / 313.5	429.2 / 318.6	532.7 / 453.6	469.3 / 391.8
Declared EER_d 30°C			4.01 / 4.08	3.91 / 4.00	3.88 / 3.87	4.07 / 4.11
Declared Cooling Capacity 25°C Pdc		kW	342.4 / 230.5	347.9 / 235.8	296.9 / 208.6	344.5 / 260.5
Declared EER_d 25°C			4.87 / 5.05	4.79 / 4.91	5.04 / 4.90	5.02 / 5.18
Declared Cooling Capacity 20°C Pdc		kW	124.7 / 0.0	122.6 / 0.0	131.1 / 0.0	188.9 / 94.1
Declared EER_d 20°C			5.67 / 0	5.51 / 0	5.42 / 0	6.05 / 5.76
Sound Power Level L		dB(A)	87	88	88	88
Air flow rate		m^3/h	192171	192171	224199	240213
Off mode P_{OFF}			0.137	0.137	0.149	0.149
Thermostat-off mode P_{TO}			1.938	2.299	1.512	1.530
Standby Mode P_{SB}			0.248	0.248	0.289	0.304
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (XQ)

	Notes	Units	DCC068TX-16PXXY	DCC075TX-17SXYY	DCC083TX-18SYYY	DCC085TX-18SYVV
SEPR	1, 3, 5		5.9	5.9	5.9	5.7
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	861346	947028	1041004	1099275
Rated Refrigerant Capacity P_A	1, 3, 5	kW	681.2	750.8	825.8	849
Rated Power Input D_A		kW	219.7	242.2	265.5	285.9
Rated $EER_{DC,A}$			3.1	3.1	3.11	2.97
Declared Refrigerant Capacity P_B	1, 3, 5	kW	659.7 / 586.0	735.5 / 640.9	817.5 / 721.1	840.9 / 740.5
Declared Power Input D_B		kW	153.6 / 134.3	171.8 / 146.1	191.1 / 165.2	202.8 / 173.7
Declared $EER_{DC,B}$			4.29 / 4.36	4.28 / 4.39	4.28 / 4.36	4.15 / 4.26
Declared Refrigerant Capacity P_C	1, 3, 5	kW	634.2 / 553.4	693.2 / 611.2	780.2 / 673.9	796.7 / 691.5
Declared Power Input D_C		kW	111.1 / 95.0	120.9 / 104.7	136.8 / 115.3	142.9 / 121.6
Declared $EER_{DC,C}$			5.71 / 5.83	5.74 / 5.84	5.70 / 5.84	5.57 / 5.69
Declared Refrigerant Capacity P_D		kW	568.2 / 458.4	628.3 / 515.6	693.6 / 577.9	709.4 / 589.1
Declared Power Input D_D		kW	83.4 / 67.0	91.9 / 75.4	101.3 / 84.6	106.4 / 88.3
Declared $EER_{DC,D}$			6.81 / 6.84	6.83 / 6.84	6.85 / 6.83	6.67 / 6.67
SSCEE	2, 3, 5	%	184	184	182	181
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	681.7	751.3	826.4	849.6
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	681.2	750.8	825.8	849
Declared EER_d 35°C			3.1	3.1	3.11	2.97
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	511.9 / 413.3	564.4 / 463.4	621.9 / 518.5	644.4 / 535.8
Declared EER_d 30°C			3.99 / 4.07	3.99 / 4.05	4.01 / 4.04	3.90 / 3.96
Declared Cooling Capacity 25°C Pdc		kW	367.8 / 284.0	396.9 / 311.5	454.1 / 342.4	466.7 / 356.6
Declared EER_d 25°C			4.95 / 5.07	4.96 / 5.06	4.91 / 5.05	4.86 / 4.99
Declared Cooling Capacity 20°C Pdc		kW	188.7 / 94.0	216.3 / 94.5	246.7 / 122.4	254.7 / 122.9
Declared EER_d 20°C			5.98 / 5.64	5.90 / 5.65	5.82 / 5.46	5.82 / 5.62
Sound Power Level L		dB(A)	88	88	88	90
Air flow rate		m^3/h	256228	272242	288256	288256
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			1.886	1.814	2.479	1.951
Standby Mode P_{SB}			0.307	0.310	0.313	0.313
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (XQ)

	Notes	Units	DCC087TX-18SVVV	DCC091TX-18SVVW	DCC093TX-18SVWW	DCC096TX-18SWWW
SEPR	1, 3, 5		5.6	5.7	5.7	5.7
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	1135822	1171411	1207260	1246088
Rated Refrigerant Capacity P_A	1, 3, 5	kW	865.2	905.2	932.5	959.7
Rated Power Input D_A		kW	297.3	312.1	326.0	340.3
Rated $EER_{DC,A}$			2.91	2.9	2.86	2.82
Declared Refrigerant Capacity P_B	1, 3, 5	kW	859.8 / 759.4	898.2 / 796.5	929.4 / 820.6	960.6 / 851.8
Declared Power Input D_B		kW	210.9 / 181.8	218.9 / 189.6	230.8 / 196.6	242.8 / 208.6
Declared $EER_{DC,B}$			4.08 / 4.18	4.10 / 4.20	4.03 / 4.17	3.96 / 4.08
Declared Refrigerant Capacity P_C	1, 3, 5	kW	815.3 / 704.3	860.2 / 747.5	889.8 / 777.2	927.4 / 806.8
Declared Power Input D_C		kW	149.0 / 125.2	155.7 / 131.9	161.6 / 137.7	171.4 / 143.5
Declared $EER_{DC,C}$			5.47 / 5.62	5.52 / 5.67	5.51 / 5.64	5.41 / 5.62
Declared Refrigerant Capacity P_D		kW	721.5 / 601.2	770.8 / 630.9	804.6 / 664.8	838.5 / 698.7
Declared Power Input D_D		kW	109.5 / 91.3	114.3 / 93.9	118.5 / 98.1	122.8 / 102.3
Declared $EER_{DC,D}$			6.59 / 6.58	6.75 / 6.72	6.79 / 6.78	6.83 / 6.83
SSCEE	2, 3, 5	%	178	179	177	176
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	865.8	905.8	933	960.3
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	865.2	905.2	932.5	959.7
Declared EER_d 35°C			2.91	2.9	2.86	2.82
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	658.6 / 550.1	691.3 / 570.8	713.7 / 593.2	736.1 / 615.6
Declared EER_d 30°C			3.86 / 3.90	3.86 / 3.94	3.82 / 3.89	3.79 / 3.85
Declared Cooling Capacity 25°C Pdc		kW	482.0 / 364.4	503.2 / 383.5	517.2 / 397.5	542.5 / 411.5
Declared EER_d 25°C			4.78 / 4.95	4.81 / 4.97	4.80 / 4.94	4.72 / 4.92
Declared Cooling Capacity 20°C Pdc		kW	262.7 / 130.9	266.0 / 132.4	281.8 / 132.3	297.7 / 148.2
Declared EER_d 20°C			5.75 / 5.50	5.78 / 5.49	5.75 / 5.45	5.72 / 5.44
Sound Power Level L		dB(A)	90	90	91	91
Air flow rate		m^3/h	288256	288256	288256	288256
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			2.027	2.268	2.434	2.606
Standby Mode P_{SB}			0.313	0.313	0.313	0.313
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
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Technical Data

Ecodesign - DCC (XQ)

	Notes	Units	DCC044DX-12LXX0	DCC049DX-13NXY0	DCC056DX-14NYY0	DCC058DX-14NYV0
SEPR	1, 3, 5		6.1	6.0	6.0	5.8
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	524781	604750	698018	734745
Rated Refrigerant Capacity P_A	1, 3, 5	kW	435.5	491.2	562.7	579.2
Rated Power Input D_A		kW	129.6	150.2	172.6	183.3
Rated $EER_{DC,A}$			3.36	3.27	3.26	3.16
Declared Refrigerant Capacity P_B	1, 3, 5	kW	480.4 / 402.3	541.3 / 443.1	620.7 / 520.2	639.4 / 533.7
Declared Power Input D_B		kW	106.3 / 87.5	122.8 / 98.0	141.6 / 116.6	149.4 / 121.5
Declared $EER_{DC,B}$			4.52 / 4.60	4.41 / 4.52	4.38 / 4.46	4.28 / 4.39
Declared Refrigerant Capacity P_C	1, 3, 5	kW	435.8 / 351.3	478.5 / 394.7	563.1 / 453.7	574.7 / 465.4
Declared Power Input D_C		kW	72.6 / 57.1	81.1 / 65.6	96.8 / 76.0	100.7 / 79.8
Declared $EER_{DC,C}$			6.00 / 6.16	5.90 / 6.02	5.81 / 5.97	5.71 / 5.83
Declared Refrigerant Capacity P_D		kW	359.1 / 269.2	403.0 / 290.3	464.2 / 348.0	475.3 / 353.2
Declared Power Input D_D		kW	50.9 / 38.6	58.5 / 42.1	67.7 / 51.1	71.0 / 53.0
Declared $EER_{DC,D}$			7.05 / 6.97	6.89 / 6.90	6.86 / 6.81	6.69 / 6.66
SSCEE	2, 3, 5	%	188	189	185	180
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	436	491.7	563.3	579.8
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	435.5	491.2	562.7	579.2
Declared EER_d 35°C			3.36	3.27	3.26	3.16
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	323.2 / 242.9	364.5 / 262.8	419.2 / 315.3	432.1 / 320.4
Declared EER_d 30°C			4.22 / 4.27	4.13 / 4.23	4.11 / 4.17	4.02 / 4.09
Declared Cooling Capacity 25°C Pdc		kW	265.9 / 178.6	287.5 / 200.8	344.2 / 231.5	349.7 / 236.7
Declared EER_d 25°C			5.11 / 5.23	5.06 / 5.16	4.98 / 5.13	4.89 / 4.98
Declared Cooling Capacity 20°C Pdc		kW	96.7 / 0.0	218.3 / 95.5	125.2 / 0.0	123.1 / 0.0
Declared EER_d 20°C			5.79 / 0	6.10 / 5.92	5.73 / 0	5.56 / 0
Sound Power Level L		dB(A)	87	87	87	88
Air flow rate		m^3/h	192171	208185	224199	224199
Off mode P_{OFF}			0.137	0.137	0.137	0.137
Thermostat-off mode P_{TO}			1.928	1.420	2.052	2.440
Standby Mode P_{SB}			0.248	0.251	0.254	0.254
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (XQ)

	Notes	Units	DCC063TX-17PNXX	DCC064TX-18PXXX	DCC070TX-19PXXY	DCC077TX-20SXYY
SEPR	1, 3, 5		6.0	6.1	6.0	6.0
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	778818	772568	860134	947887
Rated Refrigerant Capacity P_A	1, 3, 5	kW	632.2	638.2	695.5	766.2
Rated Power Input D_A		kW	191.6	192.2	213.3	235.8
Rated $EER_{DC,A}$			3.3	3.32	3.26	3.25
Declared Refrigerant Capacity P_B	1, 3, 5	kW	619.8 / 542.8	626.6 / 550.4	668.7 / 592.5	746.1 / 647.9
Declared Power Input D_B		kW	137.8 / 119.1	138.3 / 119.7	149.6 / 131.0	167.7 / 142.9
Declared $EER_{DC,B}$			4.50 / 4.56	4.53 / 4.60	4.47 / 4.52	4.45 / 4.53
Declared Refrigerant Capacity P_C	1, 3, 5	kW	585.5 / 500.3	595.1 / 512.8	639.6 / 557.3	699.3 / 615.5
Declared Power Input D_C		kW	98.4 / 84.0	98.8 / 83.4	108.2 / 92.8	118.2 / 102.7
Declared $EER_{DC,C}$			5.95 / 5.96	6.02 / 6.15	5.91 / 6.01	5.92 / 5.99
Declared Refrigerant Capacity P_D		kW	511.8 / 423.4	523.1 / 435.8	568.2 / 458.3	628.4 / 515.6
Declared Power Input D_D		kW	74.2 / 61.9	74.5 / 62.3	82.9 / 66.6	91.6 / 75.2
Declared $EER_{DC,D}$			6.90 / 6.84	7.02 / 7.00	6.85 / 6.88	6.86 / 6.86

SSCEE	2, 3, 5	%	186	193	190	188
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	632.6	638.6	695.9	766.7
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	632.2	638.2	695.5	766.2
Declared EER_d 35°C			3.3	3.32	3.26	3.25
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	541.2 / 461.3	473.2 / 394.8	515.9 / 416.5	568.4 / 466.5
Declared EER_d 30°C			4.08 / 4.07	4.20 / 4.24	4.12 / 4.19	4.11 / 4.15
Declared Cooling Capacity 25°C Pdc		kW	298.7 / 209.9	346.9 / 261.8	370.3 / 285.4	399.4 / 312.9
Declared EER_d 25°C			5.18 / 5.05	5.16 / 5.29	5.08 / 5.18	5.08 / 5.14
Declared Cooling Capacity 20°C Pdc		kW	227.9 / 0.0	189.8 / 94.6	189.7 / 94.6	217.3 / 95.0
Declared EER_d 20°C			5.96 / 0	6.19 / 5.92	6.12 / 5.80	5.99 / 5.72
Sound Power Level L		dB(A)	88	88	88	88
Air flow rate		m^3/h	272242	288256	304270	320285
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			1.341	1.298	1.616	1.929
Standby Mode P_{SB}			0.298	0.313	0.316	0.319
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (XQ)

	Notes	Units	DCC084TX-21SYYY	DCC087TX-21SYVV	DCC088TX-21SVVV	DCC093TX-21SVVW
SEPR	1, 3, 5		6.0	5.8	5.7	5.8
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	1043767	1103386	1140327	1176351
Rated Refrigerant Capacity P_A	1, 3, 5	kW	842.2	867.2	884.5	926.8
Rated Power Input D_A		kW	258.3	277.1	288.1	301.9
Rated $EER_{DC,A}$			3.26	3.13	3.07	3.07
Declared Refrigerant Capacity P_B	1, 3, 5	kW	828.7 / 728.4	852.5 / 748.0	871.9 / 767.3	912.1 / 806.0
Declared Power Input D_B		kW	186.8 / 161.8	197.7 / 169.9	205.2 / 177.4	212.9 / 185.0
Declared $EER_{DC,B}$			4.44 / 4.50	4.31 / 4.40	4.25 / 4.33	4.28 / 4.36
Declared Refrigerant Capacity P_C	1, 3, 5	kW	787.4 / 678.3	803.2 / 695.4	822.1 / 707.8	868.1 / 751.9
Declared Power Input D_C		kW	134.3 / 113.4	140.2 / 119.4	145.9 / 123.0	152.3 / 129.3
Declared $EER_{DC,C}$			5.86 / 5.98	5.73 / 5.82	5.64 / 5.76	5.70 / 5.82
Declared Refrigerant Capacity P_D		kW	693.6 / 577.8	709.4 / 589.0	721.5 / 601.1	770.7 / 630.9
Declared Power Input D_D		kW	101.0 / 84.5	106.1 / 88.1	109.1 / 91.1	113.8 / 93.6
Declared $EER_{DC,D}$			6.87 / 6.84	6.69 / 6.68	6.61 / 6.60	6.77 / 6.74
SSCEE	2, 3, 5	%	185	184	182	182
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	842.9	867.7	885	927.4
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	842.2	867.2	884.5	926.8
Declared EER_d 35°C			3.26	3.13	3.07	3.07
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	625.8 / 521.6	648.8 / 539.1	663.3 / 553.7	698.2 / 574.8
Declared EER_d 30°C			4.11 / 4.14	4.01 / 4.06	3.96 / 4.00	3.98 / 4.04
Declared Cooling Capacity 25°C Pdc		kW	456.3 / 343.8	469.0 / 358.1	484.4 / 365.8	506.0 / 385.2
Declared EER_d 25°C			5.01 / 5.12	4.96 / 5.07	4.88 / 5.03	4.92 / 5.05
Declared Cooling Capacity 20°C Pdc		kW	247.6 / 122.9	255.7 / 123.4	263.7 / 131.4	267.0 / 132.9
Declared EER_d 20°C			5.89 / 5.50	5.90 / 5.67	5.83 / 5.55	5.85 / 5.53
Sound Power Level L		dB(A)	89	90	90	91
Air flow rate		m^3/h	336299	336299	336299	336299
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			2.658	2.106	2.192	2.482
Standby Mode P_{SB}			0.322	0.322	0.322	0.322
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (XQ)

	Notes	Units	DCC096TX-21SWWW	DCC098TX-21SWWW	DCC021DX-06JJK0	DCC026DX-06KKL0
SEPR	1, 3, 5		5.8	5.8	6.9	6.6
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	1212395	1250881	223867	292223
Rated Refrigerant Capacity P_A	1, 3, 5	kW	955.5	984.1	208.2	260.2
Rated Power Input D_A		kW	315.3	328.0	62.7	82.6
Rated $EER_{DC,A}$			3.03	3	3.32	3.15
Declared Refrigerant Capacity P_B	1, 3, 5	kW	945.1 / 831.1	978.2 / 864.2	228.9 / 168.4	287.8 / 217.5
Declared Power Input D_B		kW	224.1 / 191.9	235.2 / 203.1	50.9 / 35.3	67.7 / 48.0
Declared $EER_{DC,B}$			4.22 / 4.33	4.16 / 4.26	4.50 / 4.77	4.25 / 4.53
Declared Refrigerant Capacity P_C	1, 3, 5	kW	898.3 / 782.1	938.3 / 812.2	181.2 / 130.2	235.1 / 166.6
Declared Power Input D_C		kW	157.9 / 134.9	167.0 / 140.5	28.1 / 20.2	38.7 / 26.7
Declared $EER_{DC,C}$			5.69 / 5.80	5.62 / 5.78	6.44 / 6.45	6.07 / 6.25
Declared Refrigerant Capacity P_D		kW	804.5 / 664.7	838.3 / 698.6	193.4 / 138.2	252.1 / 177.4
Declared Power Input D_D		kW	117.9 / 97.8	122.1 / 102.0	21.6 / 15.9	29.1 / 20.8
Declared $EER_{DC,D}$			6.82 / 6.80	6.87 / 6.85	8.95 / 8.68	8.67 / 8.51
SSCEE	2, 3, 5	%	181	180	196	189
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	956.1	984.8	208.6	260.5
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	955.5	984.1	208.2	260.2
Declared EER_d 35°C			3.03	3	3.32	3.15
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	722.2 / 598.9	746.3 / 623.0	167.6 / 120.3	215.8 / 153.4
Declared EER_d 30°C			3.94 / 4.00	3.91 / 3.96	4.28 / 4.49	4.07 / 4.38
Declared Cooling Capacity 25°C Pdc		kW	520.1 / 399.4	546.9 / 413.6	131.6 / 54.3	168.0 / 74.6
Declared EER_d 25°C			4.91 / 5.03	4.84 / 5.00	5.47 / 5.32	5.29 / 5.09
Declared Cooling Capacity 20°C Pdc		kW	283.1 / 132.8	299.2 / 149.0	59.3 / 0.0	81.6 / 0.0
Declared EER_d 20°C			5.83 / 5.49	5.81 / 5.49	6.59 / 0	6.33 / 0
Sound Power Level L		dB(A)	91	91	83	85
Air flow rate		m^3/h	336299	336299	86523	86523
Off mode P_{OFF}			0.149	0.149	0.078	0.078
Thermostat-off mode P_{TO}			2.669	2.865	0.785	0.896
Standby Mode P_{SB}			0.322	0.322	0.104	0.104
Crankcase heater mode P_{CK}			0.000	0.000	0.090	0.090

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (XQ)

	Notes	Units	DCC032DX-08KLR0	DCC035DX-08KRR0	DCC043DX-10KSS0	DCC044DX-10KSQ0
SEPR	1, 3, 5		7.0	6.8	6.8	6.6
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	344014	388038	473114	496008
Rated Refrigerant Capacity P_A	1, 3, 5	kW	324.3	355.9	431.8	444.7
Rated Power Input D_A		kW	99.8	112.6	134.1	139.0
Rated $EER_{DC,A}$			3.25	3.16	3.22	3.2
Declared Refrigerant Capacity P_B	1, 3, 5	kW	357.6 / 300.2	334.8 / 276.5	405.3 / 334.1	418.3 / 302.2
Declared Power Input D_B		kW	81.6 / 65.3	76.0 / 59.6	90.5 / 71.1	94.5 / 63.8
Declared $EER_{DC,B}$			4.38 / 4.60	4.40 / 4.64	4.48 / 4.70	4.43 / 4.74
Declared Refrigerant Capacity P_C	1, 3, 5	kW	324.8 / 254.5	363.0 / 298.1	439.0 / 359.9	450.9 / 323.3
Declared Power Input D_C		kW	51.9 / 39.6	60.6 / 47.8	72.7 / 57.5	75.3 / 51.9
Declared $EER_{DC,C}$			6.25 / 6.43	5.99 / 6.24	6.04 / 6.26	5.99 / 6.23
Declared Refrigerant Capacity P_D		kW	271.8 / 179.9	319.6 / 242.1	385.7 / 292.1	480.7 / 343.7
Declared Power Input D_D		kW	29.0 / 19.8	35.2 / 26.4	43.6 / 32.7	55.4 / 39.6
Declared $EER_{DC,D}$			9.36 / 9.07	9.07 / 9.18	8.85 / 8.92	8.67 / 8.68
SSCEE	2, 3, 5	%	193	196	196	193
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	324.7	356.3	432.3	445.1
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	324.3	355.9	431.8	444.7
Declared EER_d 35°C			3.25	3.16	3.22	3.2
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	299.3 / 232.1	274.2 / 207.0	331.5 / 250.2	417.6 / 299.1
Declared EER_d 30°C			4.13 / 4.22	4.18 / 4.28	4.24 / 4.34	3.97 / 4.28
Declared Cooling Capacity 25°C Pdc		kW	169.6 / 90.3	227.1 / 154.6	274.2 / 186.6	238.5 / 91.4
Declared EER_d 25°C			5.50 / 5.16	5.22 / 5.55	5.25 / 5.56	5.36 / 5.16
Declared Cooling Capacity 20°C Pdc		kW	98.6 / 0.0	82.8 / 0.0	99.9 / 0.0	99.8 / 0.0
Declared EER_d 20°C			6.36 / 0	6.53 / 0	6.43 / 0	6.38 / 0
Sound Power Level L		dB(A)	86	86	88	88
Air flow rate		m^3/h	115364	115364	144205	144205
Off mode P_{OFF}			0.078	0.078	0.078	0.078
Thermostat-off mode P_{TO}			1.214	1.416	1.896	2.038
Standby Mode P_{SB}			0.110	0.110	0.116	0.116
Crankcase heater mode P_{CK}			0.112	0.134	0.134	0.112

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (XQ)

	Notes	Units	DCC011DX-06JBC0	DCC016DX-06JGG0	DCC022DX-08JJK0	DCC027DX-08KKL0
SEPR	1, 3, 5		8.0	7.0	7.2	7.1
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	99680	165050	216902	284234
Rated Refrigerant Capacity P_A	1, 3, 5	kW	108.3	156.3	212.1	271.1
Rated Power Input D_A		kW	28.8	46.5	60.6	79.0
Rated $EER_{DC,A}$			3.76	3.36	3.5	3.43
Declared Refrigerant Capacity P_B	1, 3, 5	kW	118.5 / 50.6	170.5 / 130.5	232.4 / 170.2	297.9 / 222.2
Declared Power Input D_B		kW	22.9 / 9.5	36.8 / 27.3	48.8 / 34.0	64.4 / 46.2
Declared $EER_{DC,B}$			5.17 / 5.36	4.63 / 4.77	4.76 / 5.00	4.62 / 4.81
Declared Refrigerant Capacity P_C	1, 3, 5	kW	128.1 / 54.7	139.9 / 96.2	251.5 / 182.9	239.6 / 168.2
Declared Power Input D_C		kW	17.6 / 7.2	21.4 / 14.4	38.1 / 27.0	36.8 / 25.7
Declared $EER_{DC,C}$			7.29 / 7.56	6.53 / 6.68	6.60 / 6.77	6.52 / 6.55
Declared Refrigerant Capacity P_D		kW	135.8 / 58.5	148.5 / 101.5	195.0 / 139.0	254.8 / 178.7
Declared Power Input D_D		kW	12.7 / 5.5	16.3 / 11.4	20.6 / 15.3	27.1 / 19.9
Declared $EER_{DC,D}$			10.66 / 10.70	9.12 / 8.91	9.45 / 9.07	9.40 / 8.99
SSCEE	2, 3, 5	%	205	198	204	199
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	108.4	156.5	212.5	271.4
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	108.3	156.3	212.1	271.1
Declared EER_d 35°C			3.76	3.36	3.5	3.43
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	119.5 / 49.2	130.5 / 89.5	169.5 / 121.3	221.0 / 155.0
Declared EER_d 30°C			4.63 / 4.60	4.27 / 4.57	4.48 / 4.65	4.33 / 4.55
Declared Cooling Capacity 25°C Pdc		kW	54.0 / 0.0	97.8 / 47.8	132.8 / 54.7	169.6 / 75.4
Declared EER_d 25°C			5.74 / 0	5.64 / 5.38	5.69 / 5.49	5.53 / 5.28
Declared Cooling Capacity 20°C Pdc		kW	59.0 / 0.0	52.0 / 0.0	59.7 / 0.0	82.4 / 0.0
Declared EER_d 20°C			7.20 / 0	6.73 / 0	6.81 / 0	6.62 / 0
Sound Power Level L		dB(A)	79	80	83	85
Air flow rate		m^3/h	86523	86523	115364	115364
Off mode P_{OFF}			0.078	0.078	0.078	0.078
Thermostat-off mode P_{TO}			0.257	0.490	0.821	0.957
Standby Mode P_{SB}			0.104	0.104	0.110	0.110
Crankcase heater mode P_{CK}			0.045	0.090	0.090	0.090

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCC (XQ)

	Notes	Units	DCC033DX-10KLR0	DCC036DX-10KRR0	DCC044DX-12KSS0	DCC045DX-12KSQ0
SEPR	1, 3, 5		7.3	7.1	7.0	6.9
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	336631	378883	465614	486192
Rated Refrigerant Capacity P_A	1, 3, 5	kW	331.1	365.1	440.7	454
Rated Power Input D_A		kW	96.8	109.3	130.8	135.5
Rated $EER_{DC,A}$			3.42	3.34	3.37	3.35
Declared Refrigerant Capacity P_B	1, 3, 5	kW	363.7 / 303.3	402.0 / 340.6	485.0 / 410.9	424.0 / 304.4
Declared Power Input D_B		kW	78.9 / 63.2	89.3 / 73.5	107.1 / 88.3	91.8 / 62.4
Declared $EER_{DC,B}$			4.61 / 4.80	4.50 / 4.63	4.53 / 4.66	4.62 / 4.88
Declared Refrigerant Capacity P_C	1, 3, 5	kW	327.8 / 256.7	368.5 / 300.5	444.0 / 362.1	455.9 / 325.2
Declared Power Input D_C		kW	49.8 / 38.2	58.0 / 45.9	70.4 / 55.9	72.5 / 50.5
Declared $EER_{DC,C}$			6.58 / 6.73	6.35 / 6.54	6.30 / 6.48	6.29 / 6.44
Declared Refrigerant Capacity P_D		kW	271.8 / 180.2	320.2 / 242.4	386.6 / 292.6	484.5 / 344.8
Declared Power Input D_D		kW	28.0 / 19.3	33.3 / 25.3	41.9 / 31.8	52.4 / 38.2
Declared $EER_{DC,D}$			9.72 / 9.34	9.60 / 9.60	9.23 / 9.21	9.24 / 9.03
SSCEE	2, 3, 5	%	200	202	201	198
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	331.5	365.5	441.2	454.5
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	331.1	365.1	440.7	454
Declared EER_d 35°C			3.42	3.34	3.37	3.35
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	302.7 / 234.7	276.6 / 208.6	333.7 / 251.9	423.7 / 301.0
Declared EER_d 30°C			4.31 / 4.38	4.34 / 4.43	4.37 / 4.45	4.15 / 4.40
Declared Cooling Capacity 25°C Pdc		kW	170.6 / 90.9	228.8 / 155.5	275.9 / 187.5	240.0 / 91.8
Declared EER_d 25°C			5.66 / 5.30	5.42 / 5.70	5.41 / 5.67	5.50 / 5.24
Declared Cooling Capacity 20°C Pdc		kW	99.2 / 0.0	83.3 / 0.0	100.3 / 0.0	100.3 / 0.0
Declared EER_d 20°C			6.57 / 0	6.71 / 0	6.54 / 0	6.49 / 0
Sound Power Level L		dB(A)	86	87	88	88
Air flow rate		m^3/h	144205	144205	173046	173046
Off mode P_{OFF}			0.078	0.078	0.078	0.078
Thermostat-off mode P_{TO}			1.336	1.465	2.113	2.275
Standby Mode P_{SB}			0.116	0.116	0.122	0.122
Crankcase heater mode P_{CK}			0.112	0.134	0.134	0.112

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF012DR-04JBC0	DCF017DR-04JGG0	DCF023DR-06JJK0	DCF029DR-06KKL0
SEPR	1, 3, 5		6.8	6.7	7.1	6.9
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	116418	170619	219688	286709
Rated Refrigerant Capacity P_A	1, 3, 5	kW	107.2	154.4	210.5	268.3
Rated Power Input D_A		kW	30.9	51.0	64.8	85.2
Rated $EER_{DC,A}$			3.47	3.03	3.25	3.15
Declared Refrigerant Capacity P_B	1, 3, 5	kW	117.5 / 50.2	168.8 / 129.3	231.1 / 169.3	295.0 / 220.1
Declared Power Input D_B		kW	24.9 / 10.4	41.1 / 30.3	52.7 / 36.6	70.2 / 50.1
Declared $EER_{DC,B}$			4.71 / 4.84	4.11 / 4.27	4.39 / 4.63	4.20 / 4.39
Declared Refrigerant Capacity P_C	1, 3, 5	kW	127.2 / 54.3	138.7 / 95.6	250.6 / 182.4	237.7 / 166.9
Declared Power Input D_C		kW	19.5 / 8.1	24.3 / 16.1	41.8 / 29.4	40.7 / 28.3
Declared $EER_{DC,C}$			6.51 / 6.71	5.71 / 5.93	6.00 / 6.20	5.84 / 5.90
Declared Refrigerant Capacity P_D		kW	85.5 / 58.1	123.1 / 100.9	168.0 / 138.8	214.1 / 177.7
Declared Power Input D_D		kW	10.3 / 10.9	12.6 / 13.0	16.7 / 17.0	20.6 / 22.5
Declared $EER_{DC,D}$			8.29 / 5.35	9.81 / 7.75	10.08 / 8.18	10.37 / 7.90
SSCEE	2, 3, 5	%	183	173	184	175
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	107.4	154.7	210.9	268.8
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	107.2	154.4	210.5	268.3
Declared EER_d 35°C			3.47	3.03	3.25	3.15
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	118.3 / 48.7	129.0 / 88.6	168.4 / 120.6	218.6 / 153.4
Declared EER_d 30°C			4.24 / 4.17	3.83 / 4.15	4.16 / 4.33	3.96 / 4.18
Declared Cooling Capacity 25°C Pdc		kW	53.4 / 0.0	96.9 / 47.2	132.0 / 54.4	168.0 / 74.5
Declared EER_d 25°C			5.16 / 0	5.06 / 4.70	5.26 / 4.95	5.03 / 4.67
Declared Cooling Capacity 20°C Pdc		kW	58.4 / 0.0	51.5 / 0.0	59.4 / 0.0	81.5 / 0.0
Declared EER_d 20°C			6.39 / 0	5.79 / 0	6.08 / 0	5.75 / 0
Sound Power Level L		dB(A)	80	83	84	87
Air flow rate		m^3/h	85181	85181	127772	127772
Off mode P_{OFF}			0.078	0.078	0.078	0.078
Thermostat-off mode P_{TO}			0.481	0.938	1.367	1.856
Standby Mode P_{SB}			0.098	0.098	0.104	0.104
Crankcase heater mode P_{CK}			0.045	0.090	0.090	0.090

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF036DR-08KLR0	DCF039DR-08KRR0	DCF047DR-10KSS0	DCF049DR-10KSQ0
SEPR	1, 3, 5		7.1	6.9	6.9	6.8
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	343132	385908	469459	492317
Rated Refrigerant Capacity P_A	1, 3, 5	kW	328.9	359.4	435.1	448.7
Rated Power Input D_A		kW	103.1	116.7	139.0	144.3
Rated $EER_{DC,A}$			3.19	3.08	3.13	3.11
Declared Refrigerant Capacity P_B	1, 3, 5	kW	361.4 / 301.3	395.0 / 335.0	477.7 / 405.0	491.4 / 418.7
Declared Power Input D_B		kW	84.7 / 67.7	96.2 / 79.2	114.5 / 94.4	118.7 / 98.6
Declared $EER_{DC,B}$			4.27 / 4.45	4.11 / 4.23	4.17 / 4.29	4.14 / 4.25
Declared Refrigerant Capacity P_C	1, 3, 5	kW	326.2 / 255.4	362.8 / 296.5	438.2 / 358.1	450.8 / 321.7
Declared Power Input D_C		kW	54.3 / 41.6	63.7 / 50.4	76.5 / 60.8	79.3 / 55.2
Declared $EER_{DC,C}$			6.01 / 6.14	5.70 / 5.88	5.73 / 5.89	5.69 / 5.83
Declared Refrigerant Capacity P_D		kW	262.5 / 180.2	286.9 / 241.1	347.4 / 290.9	358.2 / 342.0
Declared Power Input D_D		kW	25.2 / 21.4	27.6 / 28.7	34.3 / 35.7	36.1 / 43.0
Declared $EER_{DC,D}$			10.42 / 8.41	10.38 / 8.40	10.13 / 8.16	9.91 / 7.96
SSCEE	2, 3, 5	%	181	179	178	174
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	329.4	360	435.8	449.4
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	328.9	359.4	435.1	448.7
Declared EER_d 35°C			3.19	3.08	3.13	3.11
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	300.5 / 232.9	272.4 / 205.7	329.4 / 248.7	418.8 / 297.2
Declared EER_d 30°C			4.01 / 4.07	3.99 / 4.07	4.04 / 4.11	3.83 / 4.06
Declared Cooling Capacity 25°C Pdc		kW	169.5 / 90.1	225.6 / 153.7	272.5 / 185.6	237.4 / 90.8
Declared EER_d 25°C			5.23 / 4.79	4.93 / 5.17	4.95 / 5.16	5.01 / 4.55
Declared Cooling Capacity 20°C Pdc		kW	98.5 / 0.0	82.3 / 0.0	99.2 / 0.0	99.1 / 0.0
Declared EER_d 20°C			5.86 / 0	5.75 / 0	5.62 / 0	5.53 / 0
Sound Power Level L		dB(A)	88	88	89	90
Air flow rate		m^3/h	170362	170362	212953	212953
Off mode P_{OFF}			0.078	0.078	0.078	0.078
Thermostat-off mode P_{TO}			2.188	2.709	3.710	4.002
Standby Mode P_{SB}			0.110	0.110	0.116	0.116
Crankcase heater mode P_{CK}			0.112	0.134	0.134	0.112

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF012DR-06JBC0	DCF018DR-06JGG0	DCF024DR-08JJK0	DCF030DR-08KKL0
SEPR	1, 3, 5		6.4	7.0	7.2	7.2
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	126426	167650	220420	279992
Rated Refrigerant Capacity P_A	1, 3, 5	kW	109.1	157.8	213.7	273
Rated Power Input D_A		kW	29.5	47.8	62.3	81.5
Rated $EER_{DC,A}$			3.7	3.3	3.43	3.35
Declared Refrigerant Capacity P_B	1, 3, 5	kW	119.5 / 50.9	172.4 / 131.7	234.3 / 171.3	299.7 / 223.2
Declared Power Input D_B		kW	23.5 / 9.8	38.1 / 28.3	50.3 / 35.2	66.7 / 47.9
Declared $EER_{DC,B}$			5.08 / 5.19	4.53 / 4.65	4.65 / 4.87	4.50 / 4.66
Declared Refrigerant Capacity P_C	1, 3, 5	kW	129.2 / 55.1	141.2 / 96.8	253.7 / 184.2	240.8 / 168.6
Declared Power Input D_C		kW	18.1 / 7.6	22.4 / 15.2	39.5 / 28.1	38.5 / 27.1
Declared $EER_{DC,C}$			7.12 / 7.26	6.31 / 6.39	6.42 / 6.56	6.25 / 6.23
Declared Refrigerant Capacity P_D		kW	87.0 / 58.8	125.9 / 102.1	170.6 / 139.7	217.9 / 179.2
Declared Power Input D_D		kW	13.7 / 12.7	13.5 / 12.1	17.9 / 16.2	21.0 / 21.3
Declared $EER_{DC,D}$			6.35 / 4.62	9.33 / 8.41	9.50 / 8.61	10.36 / 8.42
SSCEE	2, 3, 5	%	197	187	193	185
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	109.3	158.1	214.1	273.4
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	109.1	157.8	213.7	273
Declared EER_d 35°C			3.7	3.3	3.43	3.35
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	120.4 / 49.4	131.5 / 89.9	170.4 / 121.8	221.8 / 155.1
Declared EER_d 30°C			4.55 / 4.46	4.16 / 4.42	4.37 / 4.51	4.19 / 4.38
Declared Cooling Capacity 25°C Pdc		kW	54.3 / 0.0	98.3 / 47.9	133.3 / 54.9	169.9 / 75.3
Declared EER_d 25°C			5.56 / 0	5.43 / 5.05	5.50 / 5.17	5.30 / 4.91
Declared Cooling Capacity 20°C Pdc		kW	59.3 / 0.0	52.2 / 0.0	59.9 / 0.0	82.4 / 0.0
Declared EER_d 20°C			6.93 / 0	6.27 / 0	6.36 / 0	6.10 / 0
Sound Power Level L		dB(A)	79	80	83	86
Air flow rate		m^3/h	127772	127772	170362	170362
Off mode P_{OFF}			0.078	0.078	0.078	0.078
Thermostat-off mode P_{TO}			0.441	0.886	1.307	1.747
Standby Mode P_{SB}			0.104	0.104	0.110	0.110
Crankcase heater mode P_{CK}			0.045	0.090	0.090	0.090

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF036DR-10KLR0	DCF040DR-10KRR0	DCF048DR-12KSS0	DCF049DR-12KSQ0
SEPR	1, 3, 5		7.3	7.2	7.1	7.0
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	338957	376932	461989	482912
Rated Refrigerant Capacity P_A	1, 3, 5	kW	333.1	364.3	439.7	453.6
Rated Power Input D_A		kW	99.7	112.8	135.3	140.0
Rated $EER_{DC,A}$			3.34	3.23	3.25	3.24
Declared Refrigerant Capacity P_B	1, 3, 5	kW	365.7 / 304.6	400.0 / 338.9	482.5 / 408.8	496.2 / 422.5
Declared Power Input D_B		kW	81.5 / 65.3	92.4 / 76.2	111.0 / 91.7	114.9 / 95.6
Declared $EER_{DC,B}$			4.49 / 4.66	4.33 / 4.45	4.35 / 4.46	4.32 / 4.42
Declared Refrigerant Capacity P_C	1, 3, 5	kW	329.4 / 257.7	366.8 / 299.3	442.0 / 360.8	454.4 / 323.9
Declared Power Input D_C		kW	51.9 / 39.9	60.7 / 48.3	73.9 / 58.9	76.3 / 53.5
Declared $EER_{DC,C}$			6.34 / 6.46	6.04 / 6.19	5.98 / 6.12	5.95 / 6.05
Declared Refrigerant Capacity P_D		kW	266.0 / 180.8	290.8 / 242.2	351.1 / 292.2	362.1 / 343.9
Declared Power Input D_D		kW	26.0 / 20.7	27.7 / 27.3	34.5 / 34.4	36.1 / 41.4
Declared $EER_{DC,D}$			10.25 / 8.75	10.50 / 8.89	10.18 / 8.49	10.03 / 8.32
SSCEE	2, 3, 5	%	188	186	183	180
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	333.6	364.9	440.4	454.3
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	333.1	364.3	439.7	453.6
Declared EER_d 35°C			3.34	3.23	3.25	3.24
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	304.0 / 235.3	275.3 / 207.6	332.2 / 250.6	422.9 / 299.6
Declared EER_d 30°C			4.19 / 4.25	4.17 / 4.23	4.18 / 4.24	3.99 / 4.20
Declared Cooling Capacity 25°C Pdc		kW	170.7 / 90.8	227.7 / 154.7	274.5 / 186.6	238.8 / 91.3
Declared EER_d 25°C			5.42 / 4.97	5.15 / 5.35	5.11 / 5.29	5.16 / 4.67
Declared Cooling Capacity 20°C Pdc		kW	99.2 / 0.0	82.8 / 0.0	99.8 / 0.0	99.7 / 0.0
Declared EER_d 20°C			6.11 / 0	5.99 / 0	5.78 / 0	5.69 / 0
Sound Power Level L		dB(A)	87	87	88	89
Air flow rate		m^3/h	212953	212953	255544	255544
Off mode P_{OFF}			0.078	0.078	0.078	0.078
Thermostat-off mode P_{TO}			2.104	2.611	3.642	3.931
Standby Mode P_{SB}			0.116	0.116	0.122	0.122
Crankcase heater mode P_{CK}			0.112	0.134	0.134	0.112

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
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Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF045DR-08LXX0	DCF053DR-09MXY0
SEPR	1, 3, 5		6.1	6.2
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	506220	596388
Rated Refrigerant Capacity P_A	1, 3, 5	kW	419.4	496.2
Rated Power Input D_A		kW	142.7	167.1
Rated $EER_{DC,A}$			2.94	2.97
Declared Refrigerant Capacity P_B	1, 3, 5	kW	461.4 / 387.1	545.1 / 446.4
Declared Power Input D_B		kW	116.8 / 95.7	137.2 / 109.1
Declared $EER_{DC,B}$			3.95 / 4.04	3.97 / 4.09
Declared Refrigerant Capacity P_C	1, 3, 5	kW	419.4 / 339.0	483.8 / 400.5
Declared Power Input D_C		kW	79.4 / 62.0	90.9 / 73.2
Declared $EER_{DC,C}$			5.28 / 5.47	5.32 / 5.47
Declared Refrigerant Capacity P_D		kW	334.9 / 264.9	396.2 / 301.1
Declared Power Input D_D		kW	39.5 / 40.2	46.6 / 45.5
Declared $EER_{DC,D}$			8.47 / 6.59	8.50 / 6.62
SSCEE	2, 3, 5	%	164	163
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	420.1	496.9
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	419.4	496.2
Declared EER_d 35°C			2.94	2.97
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	310.6 / 233.1	445.3 / 367.1
Declared EER_d 30°C			3.74 / 3.79	3.67 / 3.76
Declared Cooling Capacity 25°C Pdc		kW	255.4 / 171.3	289.0 / 201.8
Declared EER_d 25°C			4.53 / 4.67	4.57 / 4.65
Declared Cooling Capacity 20°C Pdc		kW	91.9 / 0.0	219.0 / 94.8
Declared EER_d 20°C			5.01 / 0	5.47 / 4.91
Sound Power Level L		dB(A)	90	91
Air flow rate		m³/h	170362	191658
Off mode P_{OFF}			0.137	0.137
Thermostat-off mode P_{TO}			2.880	3.862
Standby Mode P_{SB}			0.236	0.239
Crankcase heater mode P_{CK}			0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF061DR-10MYY0	DCF063DR-10MYV0	DCF068TR-11RNXX	DCF070TR-12RXXX
SEPR	1, 3, 5		6.1	6.1	5.9	6.2
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	679061	713851	794300	771035
Rated Refrigerant Capacity P_A	1, 3, 5	kW	562.1	586	628.5	644.1
Rated Power Input D_A		kW	189.9	202.1	216.0	214.7
Rated $EER_{DC,A}$			2.96	2.9	2.91	3
Declared Refrigerant Capacity P_B	1, 3, 5	kW	617.2 / 517.9	645.1 / 537.7	618.1 / 542.2	632.6 / 556.6
Declared Power Input D_B		kW	156.2 / 127.9	165.7 / 133.8	155.9 / 134.7	154.8 / 133.6
Declared $EER_{DC,B}$			3.95 / 4.05	3.89 / 4.02	3.97 / 4.03	4.09 / 4.17
Declared Refrigerant Capacity P_C	1, 3, 5	kW	560.5 / 452.9	580.3 / 471.7	586.6 / 501.5	603.9 / 521.7
Declared Power Input D_C		kW	106.5 / 83.0	111.2 / 87.6	111.7 / 95.8	111.0 / 93.4
Declared $EER_{DC,C}$			5.26 / 5.46	5.22 / 5.38	5.25 / 5.23	5.44 / 5.59
Declared Refrigerant Capacity P_D		kW	449.0 / 354.6	468.0 / 365.3	502.0 / 434.5	514.5 / 454.5
Declared Power Input D_D		kW	53.1 / 53.7	55.5 / 55.8	64.2 / 69.0	61.5 / 66.8
Declared $EER_{DC,D}$			8.46 / 6.60	8.44 / 6.54	7.81 / 6.29	8.37 / 6.81
SSCEE	2, 3, 5	%	166	163	159	168
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Not Compliant	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	562.9	586.7	629.3	644.9
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	562.1	586	628.5	644.1
Declared EER_d 35°C			2.96	2.9	2.91	3
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	416.5 / 314.0	435.0 / 323.5	538.6 / 459.7	477.9 / 399.3
Declared EER_d 30°C			3.76 / 3.83	3.71 / 3.80	3.60 / 3.59	3.82 / 3.86
Declared Cooling Capacity 25°C Pdc		kW	342.9 / 231.7	352.9 / 239.8	301.1 / 211.9	351.1 / 266.1
Declared EER_d 25°C			4.55 / 4.74	4.52 / 4.65	4.64 / 4.42	4.69 / 4.82
Declared Cooling Capacity 20°C Pdc		kW	125.3 / 0.0	124.3 / 0.0	133.1 / 0.0	192.6 / 95.9
Declared EER_d 20°C			5.14 / 0	5.02 / 0	4.64 / 0	5.45 / 4.86
Sound Power Level L		dB(A)	92	93	93	92
Air flow rate		m^3/h	212953	212953	234248	255544
Off mode P_{OFF}			0.137	0.137	0.149	0.149
Thermostat-off mode P_{TO}			3.716	4.181	4.305	4.085
Standby Mode P_{SB}			0.242	0.242	0.280	0.295
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

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Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF077TR-13RXXY	DCF084TR-14RXYY	DCF091TR-15RYYY	DCF095TR-15RYVV
SEPR	1, 3, 5		6.2	6.1	6.0	6.0
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	852266	936412	1021476	1101186
Rated Refrigerant Capacity P_A	1, 3, 5	kW	714	776.5	825.5	889.1
Rated Power Input D_A		kW	238.8	261.4	282.7	308.7
Rated $EER_{DC,A}$			2.99	2.97	2.92	2.88
Declared Refrigerant Capacity P_B	1, 3, 5	kW	686.0 / 609.3	753.9 / 655.1	808.6 / 711.3	871.5 / 764.1
Declared Power Input D_B		kW	167.4 / 146.2	186.8 / 158.7	204.4 / 176.4	221.4 / 189.6
Declared $EER_{DC,B}$			4.10 / 4.17	4.04 / 4.13	3.95 / 4.03	3.94 / 4.03
Declared Refrigerant Capacity P_C	1, 3, 5	kW	660.8 / 577.5	709.6 / 626.3	768.7 / 663.4	823.0 / 714.4
Declared Power Input D_C		kW	121.6 / 103.9	132.1 / 114.4	146.6 / 123.3	157.3 / 133.8
Declared $EER_{DC,C}$			5.43 / 5.56	5.37 / 5.47	5.24 / 5.38	5.23 / 5.34
Declared Refrigerant Capacity P_D		kW	570.4 / 486.3	620.4 / 536.4	659.6 / 575.7	710.4 / 617.7
Declared Power Input D_D		kW	67.3 / 71.5	73.5 / 80.7	81.0 / 88.4	86.7 / 95.3
Declared $EER_{DC,D}$			8.48 / 6.80	8.44 / 6.65	8.14 / 6.51	8.19 / 6.48

SSCEE	2, 3, 5	%	166	163	164	159
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Not Compliant
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	714.9	777.4	826.4	890
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	714	776.5	825.5	889.1
Declared EER_d 35°C			2.99	2.97	2.92	2.88
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	607.0 / 528.3	652.1 / 573.3	709.4 / 610.9	761.1 / 657.7
Declared EER_d 30°C			3.73 / 3.81	3.69 / 3.76	3.61 / 3.70	3.60 / 3.67
Declared Cooling Capacity 25°C Pdc		kW	376.0 / 288.1	400.0 / 312.1	447.5 / 338.4	469.9 / 354.7
Declared EER_d 25°C			4.64 / 4.71	4.58 / 4.63	4.53 / 4.66	4.47 / 4.52
Declared Cooling Capacity 20°C Pdc		kW	188.7 / 92.3	214.7 / 92.2	244.1 / 121.3	250.5 / 118.2
Declared EER_d 20°C			5.29 / 4.60	5.17 / 4.42	5.27 / 4.73	5.04 / 4.39
Sound Power Level L		dB(A)	93	93	93	95
Air flow rate		m^3/h	276839	298134	319430	319430
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			4.663	5.460	5.126	6.558
Standby Mode P_{SB}			0.298	0.301	0.304	0.304
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

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Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF098TR-15RVVV	DCF101TR-15RVVW	DCF104TR-15RVWW	DCF107TR-15RWWW
SEPR	1, 3, 5		6.0	5.9	5.9	5.8
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	1148976	1190613	1230916	1289626
Rated Refrigerant Capacity P_A	1, 3, 5	kW	924.3	953.3	982.5	1011.6
Rated Power Input D_A		kW	320.9	335.7	349.6	363.9
Rated $EER_{DC,A}$			2.88	2.84	2.81	2.78
Declared Refrigerant Capacity P_B	1, 3, 5	kW	910.4 / 801.1	935.1 / 825.8	969.8 / 850.6	1004.6 / 885.4
Declared Power Input D_B		kW	231.1 / 199.0	239.1 / 207.1	252.0 / 215.1	264.9 / 228.0
Declared $EER_{DC,B}$			3.94 / 4.03	3.91 / 3.99	3.85 / 3.95	3.79 / 3.88
Declared Refrigerant Capacity P_C	1, 3, 5	kW	862.6 / 744.9	892.2 / 774.6	921.9 / 804.3	963.6 / 834.0
Declared Power Input D_C		kW	164.7 / 138.3	171.6 / 145.1	178.3 / 151.9	189.6 / 158.7
Declared $EER_{DC,C}$			5.24 / 5.38	5.20 / 5.34	5.17 / 5.29	5.08 / 5.26
Declared Refrigerant Capacity P_D		kW	738.6 / 647.9	761.7 / 666.2	785.0 / 702.8	808.4 / 739.5
Declared Power Input D_D		kW	91.7 / 98.9	94.5 / 101.3	96.9 / 106.5	102.6 / 111.7
Declared $EER_{DC,D}$			8.06 / 6.55	8.06 / 6.57	8.10 / 6.60	7.88 / 6.62
SSCEE	2, 3, 5	%	163	162	160	158
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Not Compliant	Not Compliant
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	925.2	954.2	983.4	1012.6
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	924.3	953.3	982.5	1011.6
Declared EER_d 35°C			2.88	2.84	2.81	2.78
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	688.7 / 575.6	712.8 / 588.3	736.9 / 612.5	761.0 / 636.6
Declared EER_d 30°C			3.70 / 3.75	3.66 / 3.73	3.62 / 3.68	3.58 / 3.63
Declared Cooling Capacity 25°C Pdc		kW	505.6 / 383.0	519.9 / 397.3	534.2 / 411.7	560.9 / 426.0
Declared EER_d 25°C			4.56 / 4.71	4.53 / 4.66	4.50 / 4.63	4.42 / 4.59
Declared Cooling Capacity 20°C Pdc		kW	276.1 / 137.2	276.0 / 137.1	292.2 / 137.1	308.3 / 153.3
Declared EER_d 20°C			5.29 / 4.70	5.24 / 4.63	5.20 / 4.55	5.16 / 4.55
Sound Power Level L		dB(A)	95	95	96	96
Air flow rate		m^3/h	319430	319430	319430	319430
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			6.385	6.876	7.394	7.936
Standby Mode P_{SB}			0.304	0.304	0.304	0.304
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF046DR-10LXX0	DCF054DR-11MXY0	DCF061DR-12MYY0	DCF064DR-12MYV0
SEPR	1, 3, 5		6.3	6.4	6.3	6.3
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	498736	585499	667192	700878
Rated Refrigerant Capacity P_A	1, 3, 5	kW	425.4	502.7	569.2	594.1
Rated Power Input D_A		kW	137.2	161.1	183.0	194.8
Rated $EER_{DC,A}$			3.1	3.12	3.11	3.05
Declared Refrigerant Capacity P_B	1, 3, 5	kW	467.4 / 391.7	552.1 / 451.7	624.8 / 523.7	652.8 / 543.7
Declared Power Input D_B		kW	112.1 / 92.2	132.2 / 105.3	150.6 / 123.7	159.6 / 129.3
Declared $EER_{DC,B}$			4.17 / 4.25	4.18 / 4.29	4.15 / 4.23	4.09 / 4.20
Declared Refrigerant Capacity P_C	1, 3, 5	kW	424.0 / 342.2	488.9 / 404.2	566.2 / 456.8	586.0 / 475.6
Declared Power Input D_C		kW	76.5 / 60.0	87.7 / 71.0	102.9 / 80.5	107.4 / 85.0
Declared $EER_{DC,C}$			5.54 / 5.70	5.57 / 5.69	5.50 / 5.67	5.46 / 5.60
Declared Refrigerant Capacity P_D		kW	339.7 / 264.9	401.5 / 301.1	454.7 / 354.6	474.5 / 365.3
Declared Power Input D_D		kW	40.0 / 39.7	46.6 / 44.8	53.1 / 53.0	55.4 / 55.1
Declared $EER_{DC,D}$			8.48 / 6.68	8.61 / 6.72	8.56 / 6.69	8.57 / 6.63
SSCEE	2, 3, 5	%	171	170	173	170
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	426	503.5	569.9	594.8
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	425.4	502.7	569.2	594.1
Declared EER_d 35°C			3.1	3.12	3.11	3.05
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	391.3 / 314.1	450.7 / 371.0	522.8 / 420.7	543.0 / 439.4
Declared EER_d 30°C			3.81 / 3.91	3.85 / 3.92	3.80 / 3.91	3.77 / 3.86
Declared Cooling Capacity 25°C Pdc		kW	257.9 / 172.5	291.6 / 203.1	345.9 / 233.2	355.9 / 241.3
Declared EER_d 25°C			4.72 / 4.82	4.75 / 4.80	4.73 / 4.88	4.69 / 4.79
Declared Cooling Capacity 20°C Pdc		kW	92.5 / 0.0	220.4 / 95.5	126.1 / 0.0	125.1 / 0.0
Declared EER_d 20°C			5.19 / 0	5.63 / 5.09	5.32 / 0	5.19 / 0
Sound Power Level L		dB(A)	88	89	90	91
Air flow rate		m^3/h	212953	234248	255544	255544
Off mode P_{OFF}			0.137	0.137	0.137	0.137
Thermostat-off mode P_{TO}			2.756	3.603	3.403	3.871
Standby Mode P_{SB}			0.242	0.245	0.248	0.248
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF069TR-14RNXX	DCF071TR-15RXXX	DCF078TR-16RXXY	DCF085TR-17RXYY
SEPR	1, 3, 5		6.2	6.4	6.4	6.3
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	768935	757046	840175	919698
Rated Refrigerant Capacity P_A	1, 3, 5	kW	641.8	653.3	723.3	786.1
Rated Power Input D_A		kW	206.4	206.1	229.6	252.8
Rated $EER_{DC,A}$			3.11	3.17	3.15	3.11
Declared Refrigerant Capacity P_B	1, 3, 5	kW	627.7 / 550.2	640.6 / 563.2	694.2 / 616.1	762.5 / 662.0
Declared Power Input D_B		kW	148.5 / 128.5	148.8 / 128.7	161.5 / 141.3	180.6 / 153.7
Declared $EER_{DC,B}$			4.23 / 4.28	4.31 / 4.38	4.30 / 4.36	4.22 / 4.31
Declared Refrigerant Capacity P_C	1, 3, 5	kW	594.4 / 508.0	610.6 / 526.8	667.2 / 582.6	716.1 / 631.5
Declared Power Input D_C		kW	106.6 / 91.4	107.0 / 90.3	117.6 / 100.8	128.0 / 111.1
Declared $EER_{DC,C}$			5.57 / 5.56	5.71 / 5.83	5.67 / 5.78	5.60 / 5.68
Declared Refrigerant Capacity P_D		kW	512.7 / 436.1	521.9 / 454.5	577.9 / 486.3	628.1 / 536.5
Declared Power Input D_D		kW	63.0 / 66.4	61.7 / 65.8	68.0 / 70.5	73.4 / 79.7
Declared $EER_{DC,D}$			8.14 / 6.57	8.45 / 6.91	8.50 / 6.90	8.56 / 6.73
SSCEE	2, 3, 5	%	168	176	173	169
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	642.6	654.1	724.1	787
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	641.8	653.3	723.3	786.1
Declared EER_d 35°C			3.11	3.17	3.15	3.11
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	548.5 / 468.2	561.6 / 483.4	614.0 / 533.8	659.2 / 579.0
Declared EER_d 30°C			3.83 / 3.82	3.92 / 4.00	3.91 / 3.97	3.86 / 3.91
Declared Cooling Capacity 25°C Pdc		kW	304.1 / 214.3	354.4 / 268.1	379.2 / 290.0	403.2 / 314.0
Declared EER_d 25°C			4.85 / 4.65	4.88 / 4.98	4.82 / 4.86	4.75 / 4.76
Declared Cooling Capacity 20°C Pdc		kW	134.8 / 0.0	194.1 / 96.7	190.0 / 93.0	216.0 / 92.8
Declared EER_d 20°C			4.93 / 0	5.65 / 5.06	5.48 / 4.79	5.33 / 4.59
Sound Power Level L		dB(A)	91	90	91	91
Air flow rate		m^3/h	298134	319430	340725	362020
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			4.209	3.875	4.324	5.152
Standby Mode P_{SB}			0.289	0.304	0.307	0.310
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF092TR-18RYYY	DCF097TR-18RYVV	DCF100TR-18RVVV	DCF103TR-18RVVW
SEPR	1, 3, 5		6.2	6.2	6.2	6.2
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	1001284	1081801	1125289	1168266
Rated Refrigerant Capacity P_A	1, 3, 5	kW	834.7	902.3	939.6	971.9
Rated Power Input D_A		kW	272.8	297.8	310.1	324.0
Rated $EER_{DC,A}$			3.06	3.03	3.03	3
Declared Refrigerant Capacity P_B	1, 3, 5	kW	817.7 / 718.7	881.2 / 772.1	920.7 / 809.6	945.9 / 834.9
Declared Power Input D_B		kW	197.6 / 170.9	213.6 / 183.4	222.5 / 192.1	230.3 / 199.8
Declared $EER_{DC,B}$			4.14 / 4.21	4.13 / 4.21	4.14 / 4.22	4.11 / 4.18
Declared Refrigerant Capacity P_C	1, 3, 5	kW	775.9 / 669.0	830.5 / 720.2	870.8 / 751.0	901.4 / 781.7
Declared Power Input D_C		kW	141.9 / 119.8	152.2 / 129.8	159.2 / 134.1	165.7 / 140.6
Declared $EER_{DC,C}$			5.47 / 5.59	5.46 / 5.55	5.47 / 5.60	5.44 / 5.56
Declared Refrigerant Capacity P_D		kW	667.0 / 575.7	721.0 / 617.7	750.8 / 648.0	776.6 / 666.3
Declared Power Input D_D		kW	80.7 / 87.3	86.5 / 94.0	90.5 / 97.3	93.5 / 99.8
Declared $EER_{DC,D}$			8.27 / 6.59	8.34 / 6.57	8.29 / 6.66	8.31 / 6.68
SSCEE	2, 3, 5	%	170	165	170	168
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	835.5	903.2	940.5	972.8
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	834.7	902.3	939.6	971.9
Declared EER_d 35°C			3.06	3.03	3.03	3
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	717.1 / 616.9	769.4 / 664.2	696.0 / 581.2	720.4 / 594.1
Declared EER_d 30°C			3.77 / 3.85	3.77 / 3.82	3.86 / 3.90	3.82 / 3.88
Declared Cooling Capacity 25°C Pdc		kW	451.1 / 340.5	473.3 / 356.7	509.8 / 385.5	524.3 / 400.1
Declared EER_d 25°C			4.69 / 4.79	4.63 / 4.64	4.73 / 4.85	4.70 / 4.81
Declared Cooling Capacity 20°C Pdc		kW	245.6 / 122.0	251.9 / 118.9	277.8 / 138.0	277.7 / 138.0
Declared EER_d 20°C			5.43 / 4.90	5.19 / 4.54	5.45 / 4.87	5.40 / 4.79
Sound Power Level L		dB(A)	91	93	94	94
Air flow rate		m^3/h	383315	383315	383315	383315
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			4.798	6.233	6.016	6.528
Standby Mode P_{SB}			0.313	0.313	0.313	0.313
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF107TR-18RVWW	DCF110TR-18RWWW	DCF047DR-12LXX0	DCF055DR-13MXY0
SEPR	1, 3, 5		6.1	6.1	6.4	6.5
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	1210475	1263679	497514	582261
Rated Refrigerant Capacity P_A	1, 3, 5	kW	1004.4	1037	430.1	508
Rated Power Input D_A		kW	338.2	352.7	133.2	156.3
Rated $EER_{DC,A}$			2.97	2.94	3.23	3.25
Declared Refrigerant Capacity P_B	1, 3, 5	kW	982.1 / 860.3	1018.4 / 896.6	472.1 / 395.4	557.5 / 455.7
Declared Power Input D_B		kW	242.7 / 207.6	255.2 / 220.0	108.7 / 89.6	128.4 / 102.6
Declared $EER_{DC,B}$			4.05 / 4.14	3.99 / 4.08	4.34 / 4.41	4.34 / 4.44
Declared Refrigerant Capacity P_C	1, 3, 5	kW	932.2 / 812.4	975.2 / 843.2	427.7 / 344.7	493.0 / 407.0
Declared Power Input D_C		kW	172.2 / 147.1	182.7 / 153.6	74.4 / 58.5	85.4 / 69.4
Declared $EER_{DC,C}$			5.41 / 5.52	5.34 / 5.49	5.75 / 5.89	5.77 / 5.87
Declared Refrigerant Capacity P_D		kW	802.6 / 702.9	828.6 / 739.5	343.5 / 264.9	405.7 / 301.2
Declared Power Input D_D		kW	96.1 / 104.6	100.5 / 109.5	41.3 / 39.4	47.7 / 44.5
Declared $EER_{DC,D}$			8.35 / 6.72	8.24 / 6.75	8.32 / 6.73	8.51 / 6.77
SSCEE	2, 3, 5	%	166	164	176	175
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	1005.4	1037.9	430.7	508.7
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	1004.4	1037	430.1	508
Declared EER_d 35°C			2.97	2.94	3.23	3.25
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	745.0 / 618.7	769.6 / 643.3	395.2 / 316.8	454.9 / 373.9
Declared EER_d 30°C			3.78 / 3.83	3.75 / 3.79	3.96 / 4.05	3.99 / 4.05
Declared Cooling Capacity 25°C Pdc		kW	538.9 / 414.7	566.2 / 429.2	259.8 / 173.4	293.7 / 204.1
Declared EER_d 25°C			4.67 / 4.77	4.59 / 4.74	4.87 / 4.93	4.89 / 4.90
Declared Cooling Capacity 20°C Pdc		kW	294.2 / 138.0	310.6 / 154.5	93.0 / 0.0	221.4 / 96.0
Declared EER_d 20°C			5.37 / 4.71	5.33 / 4.71	5.32 / 0	5.75 / 5.22
Sound Power Level L		dB(A)	95	95	87	88
Air flow rate		m^3/h	383315	383315	255544	276839
Off mode P_{OFF}			0.149	0.149	0.137	0.137
Thermostat-off mode P_{TO}			7.071	7.641	2.625	3.493
Standby Mode P_{SB}			0.313	0.313	0.248	0.251
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
(2) Nominal conditions as stated in EU 2016/2281 Table 21.
(3) Performance data (Nett) is supplied in accordance with EN14511-1:2018.
(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF062DR-14MYY0	DCF065DR-14MYV0	DCF070TR-17RNXX	DCF071TR-18RXXX
SEPR	1, 3, 5		6.4	6.4	6.3	6.5
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	662518	695537	760581	755387
Rated Refrigerant Capacity P_A	1, 3, 5	kW	574.8	600.4	649.3	660.7
Rated Power Input D_A		kW	178.5	189.4	199.2	200.2
Rated $EER_{DC,A}$			3.22	3.17	3.26	3.3
Declared Refrigerant Capacity P_B	1, 3, 5	kW	630.3 / 527.9	658.5 / 548.1	633.9 / 555.4	646.9 / 568.4
Declared Power Input D_B		kW	146.5 / 120.6	155.1 / 126.0	143.7 / 124.4	144.5 / 125.2
Declared $EER_{DC,B}$			4.30 / 4.38	4.25 / 4.35	4.41 / 4.46	4.48 / 4.54
Declared Refrigerant Capacity P_C	1, 3, 5	kW	570.4 / 459.8	590.2 / 478.4	599.2 / 512.0	615.9 / 530.9
Declared Power Input D_C		kW	100.4 / 78.8	104.7 / 83.1	103.3 / 88.5	104.1 / 88.1
Declared $EER_{DC,C}$			5.68 / 5.83	5.63 / 5.76	5.80 / 5.78	5.91 / 6.02
Declared Refrigerant Capacity P_D		kW	459.1 / 354.6	479.6 / 365.3	518.7 / 436.1	527.8 / 454.5
Declared Power Input D_D		kW	53.9 / 52.6	56.1 / 54.7	64.1 / 65.1	63.7 / 65.3
Declared $EER_{DC,D}$			8.51 / 6.74	8.55 / 6.68	8.10 / 6.70	8.28 / 6.96

SSCEE	2, 3, 5	%	178	175	177	181
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	575.4	601.2	650	661.4
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	574.8	600.4	649.3	660.7
Declared EER_d 35°C			3.22	3.17	3.26	3.3
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	527.4 / 423.9	547.8 / 442.8	554.2 / 473.1	566.9 / 487.5
Declared EER_d 30°C			3.93 / 4.03	3.90 / 3.98	4.00 / 3.99	4.07 / 4.14
Declared Cooling Capacity 25°C Pdc		kW	348.1 / 234.3	358.2 / 242.4	306.2 / 215.8	356.9 / 269.6
Declared EER_d 25°C			4.86 / 4.98	4.82 / 4.89	5.00 / 4.82	5.02 / 5.10
Declared Cooling Capacity 20°C Pdc		kW	126.8 / 0.0	262.7 / 125.7	233.9 / 0.0	195.1 / 97.2
Declared EER_d 20°C			5.44 / 0	5.73 / 5.31	5.65 / 0	5.78 / 5.20
Sound Power Level L		dB(A)	89	90	90	89
Air flow rate		m^3/h	298134	298134	362020	383315
Off mode P_{OFF}			0.137	0.137	0.149	0.149
Thermostat-off mode P_{TO}			3.263	3.713	3.640	3.711
Standby Mode P_{SB}			0.254	0.254	0.298	0.313
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF079TR-19RXXY	DCF086TR-20RXYY	DCF093TR-21RYYY	DCF098TR-21RYVV
SEPR	1, 3, 5		6.5	6.4	6.3	6.3
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	835715	915044	996636	1073500
Rated Refrigerant Capacity P_A	1, 3, 5	kW	731.6	794.5	843.7	911.4
Rated Power Input D_A		kW	223.0	245.2	266.2	290.3
Rated $EER_{DC,A}$			3.28	3.24	3.17	3.14
Declared Refrigerant Capacity P_B	1, 3, 5	kW	701.4 / 621.9	769.7 / 667.8	824.4 / 724.2	888.5 / 778.0
Declared Power Input D_B		kW	156.7 / 137.4	175.5 / 149.7	192.6 / 166.8	207.9 / 178.9
Declared $EER_{DC,B}$			4.47 / 4.53	4.38 / 4.46	4.28 / 4.34	4.27 / 4.35
Declared Refrigerant Capacity P_C	1, 3, 5	kW	673.3 / 587.2	722.2 / 636.1	781.2 / 673.0	836.0 / 724.3
Declared Power Input D_C		kW	114.4 / 98.3	124.7 / 108.6	138.6 / 117.3	148.6 / 127.0
Declared $EER_{DC,C}$			5.89 / 5.97	5.79 / 5.86	5.63 / 5.74	5.63 / 5.70
Declared Refrigerant Capacity P_D		kW	584.5 / 486.3	634.8 / 536.4	674.1 / 575.8	728.3 / 617.7
Declared Power Input D_D		kW	69.7 / 70.0	75.2 / 79.1	82.1 / 86.7	87.6 / 93.2
Declared $EER_{DC,D}$			8.38 / 6.95	8.44 / 6.78	8.21 / 6.64	8.31 / 6.62

SSCEE	2, 3, 5	%	178	174	174	169
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	732.3	795.4	844.5	912.3
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	731.6	794.5	843.7	911.4
Declared EER_d 35°C			3.28	3.24	3.17	3.14
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	620.0 / 538.4	665.3 / 583.7	722.9 / 621.4	775.8 / 669.2
Declared EER_d 30°C			4.06 / 4.11	4.00 / 4.03	3.90 / 3.96	3.90 / 3.94
Declared Cooling Capacity 25°C Pdc		kW	381.8 / 291.5	405.8 / 315.5	453.7 / 342.1	476.0 / 358.2
Declared EER_d 25°C			4.96 / 4.97	4.87 / 4.86	4.80 / 4.89	4.74 / 4.74
Declared Cooling Capacity 20°C Pdc		kW	191.0 / 93.5	217.1 / 93.3	246.7 / 122.6	252.9 / 119.4
Declared EER_d 20°C			5.62 / 4.92	5.45 / 4.72	5.54 / 5.01	5.30 / 4.64
Sound Power Level L		dB(A)	90	90	90	92
Air flow rate		m^3/h	404611	425906	447201	447201
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			4.157	4.970	4.631	6.059
Standby Mode P_{SB}			0.316	0.319	0.322	0.322
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCF (RQ)

	Notes	Units	DCF101TR-21RVVV	DCF104TR-21RVVW	DCF108TR-21RVWW	DCF111TR-21RWWW
SEPR	1, 3, 5		6.3	6.3	6.3	6.3
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	1112477	1155072	1194526	1238541
Rated Refrigerant Capacity P_A	1, 3, 5	kW	949.3	982	1014.7	1047.4
Rated Power Input D_A		kW	301.4	314.7	328.4	342.3
Rated $EER_{DC,A}$			3.15	3.12	3.09	3.06
Declared Refrigerant Capacity P_B	1, 3, 5	kW	928.5 / 816.0	954.4 / 841.9	991.5 / 867.9	1028.7 / 905.0
Declared Power Input D_B		kW	216.4 / 187.1	223.8 / 194.5	235.7 / 202.0	247.7 / 214.0
Declared $EER_{DC,B}$			4.29 / 4.36	4.26 / 4.33	4.21 / 4.30	4.15 / 4.23
Declared Refrigerant Capacity P_C	1, 3, 5	kW	876.7 / 755.5	908.2 / 787.0	939.8 / 818.6	984.2 / 850.1
Declared Power Input D_C		kW	155.2 / 131.1	161.4 / 137.3	167.6 / 143.5	177.7 / 149.7
Declared $EER_{DC,C}$			5.65 / 5.76	5.63 / 5.73	5.61 / 5.70	5.54 / 5.68
Declared Refrigerant Capacity P_D		kW	758.6 / 648.0	784.7 / 666.2	810.9 / 702.8	837.0 / 739.3
Declared Power Input D_D		kW	90.9 / 96.5	94.2 / 98.9	96.6 / 103.5	99.5 / 108.2
Declared $EER_{DC,D}$			8.34 / 6.72	8.33 / 6.74	8.39 / 6.79	8.41 / 6.83

SSCEE	2, 3, 5	%	175	173	171	170
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	950.2	982.9	1015.6	1048.3
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	949.3	982	1014.7	1047.4
Declared EER_d 35°C			3.15	3.12	3.09	3.06
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	815.0 / 701.5	839.9 / 726.5	751.4 / 623.6	776.4 / 648.6
Declared EER_d 30°C			3.91 / 3.99	3.88 / 3.95	3.91 / 3.95	3.88 / 3.91
Declared Cooling Capacity 25°C Pdc		kW	513.0 / 387.3	527.7 / 402.1	542.5 / 416.9	570.3 / 431.8
Declared EER_d 25°C			4.86 / 4.96	4.83 / 4.92	4.81 / 4.89	4.73 / 4.85
Declared Cooling Capacity 20°C Pdc		kW	279.0 / 138.7	278.9 / 138.6	295.7 / 138.6	312.5 / 155.4
Declared EER_d 20°C			5.58 / 4.99	5.52 / 4.91	5.49 / 4.83	5.47 / 4.85
Sound Power Level L		dB(A)	92	93	93	94
Air flow rate		m^3/h	447201	447201	447201	447201
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			5.801	6.296	6.818	7.367
Standby Mode P_{SB}			0.322	0.322	0.322	0.322
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCF (XQ)

	Notes	Units	DCF012DX-06JBC0	DCF018DX-06JGG0	DCF024DX-08JJK0	DCF029DX-08KKL0
SEPR	1, 3, 5		8.4	7.9	8.1	7.9
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	96241	148391	194698	254015
Rated Refrigerant Capacity P_A	1, 3, 5	kW	109.1	157.7	213.6	272.1
Rated Power Input D_A		kW	29.5	47.8	62.3	81.2
Rated $EER_{DC,A}$			3.7	3.3	3.43	3.35
Declared Refrigerant Capacity P_B	1, 3, 5	kW	119.5 / 50.9	172.3 / 131.7	234.3 / 171.3	299.4 / 223.2
Declared Power Input D_B		kW	23.5 / 9.8	38.1 / 28.3	50.3 / 35.2	66.6 / 47.9
Declared $EER_{DC,B}$			5.08 / 5.19	4.52 / 4.65	4.65 / 4.87	4.50 / 4.66
Declared Refrigerant Capacity P_C	1, 3, 5	kW	129.2 / 55.1	141.2 / 96.8	253.7 / 184.2	240.8 / 168.6
Declared Power Input D_C		kW	18.1 / 7.6	22.4 / 15.2	39.5 / 28.1	38.5 / 27.1
Declared $EER_{DC,C}$			7.12 / 7.26	6.31 / 6.39	6.42 / 6.56	6.26 / 6.23
Declared Refrigerant Capacity P_D		kW	87.0 / 58.8	125.9 / 102.1	170.5 / 139.7	217.2 / 179.2
Declared Power Input D_D		kW	6.9 / 8.2	9.7 / 12.1	12.8 / 16.2	16.1 / 21.3
Declared $EER_{DC,D}$			12.53 / 7.14	13.02 / 8.41	13.30 / 8.61	13.47 / 8.42
SSCEE	2, 3, 5	%	197	187	193	186
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	109.3	158.1	213.9	272.5
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	109.1	157.7	213.6	272.1
Declared EER_d 35°C			3.7	3.3	3.43	3.35
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	120.4 / 49.4	131.5 / 89.9	170.4 / 121.8	221.8 / 155.2
Declared EER_d 30°C			4.55 / 4.46	4.16 / 4.42	4.37 / 4.51	4.20 / 4.38
Declared Cooling Capacity 25°C Pdc		kW	54.3 / 0.0	98.3 / 47.9	133.3 / 54.9	169.9 / 75.4
Declared EER_d 25°C			5.56 / 0	5.43 / 5.05	5.50 / 5.17	5.30 / 4.92
Declared Cooling Capacity 20°C Pdc		kW	59.3 / 0.0	52.2 / 0.0	59.9 / 0.0	82.4 / 0.0
Declared EER_d 20°C			6.93 / 0	6.27 / 0	6.36 / 0	6.10 / 0
Sound Power Level L		dB(A)	79	80	83	85
Air flow rate		m^3/h	78441	78441	104588	104588
Off mode P_{OFF}			0.078	0.078	0.078	0.078
Thermostat-off mode P_{TO}			0.440	0.886	1.302	1.711
Standby Mode P_{SB}			0.104	0.104	0.110	0.110
Crankcase heater mode P_{CK}			0.045	0.090	0.090	0.090

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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Technical Data

Ecodesign - DCF (XQ)

	Notes	Units	DCF036DX-10KLR0	DCF039DX-10KRR0	DCF047DX-12KSS0	DCF049DX-12KSQ0
SEPR	1, 3, 5		8.0	7.8	7.7	7.5
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	306765	344200	423380	444029
Rated Refrigerant Capacity P_A	1, 3, 5	kW	332.1	362.3	437.2	450.4
Rated Power Input D_A		kW	99.4	112.2	134.5	139.4
Rated $EER_{DC,A}$			3.34	3.23	3.25	3.23
Declared Refrigerant Capacity P_B	1, 3, 5	kW	365.3 / 304.4	338.3 / 277.4	408.4 / 335.1	421.5 / 302.9
Declared Power Input D_B		kW	81.4 / 65.3	76.1 / 60.0	91.6 / 72.3	95.4 / 65.3
Declared $EER_{DC,B}$			4.49 / 4.66	4.45 / 4.62	4.46 / 4.63	4.42 / 4.64
Declared Refrigerant Capacity P_C	1, 3, 5	kW	329.2 / 257.6	366.4 / 299.0	441.7 / 360.3	453.5 / 323.7
Declared Power Input D_C		kW	51.9 / 39.9	60.6 / 48.2	73.8 / 58.8	76.2 / 53.4
Declared $EER_{DC,C}$			6.34 / 6.46	6.04 / 6.20	5.99 / 6.13	5.96 / 6.06
Declared Refrigerant Capacity P_D		kW	265.2 / 180.8	289.2 / 242.2	349.1 / 292.2	359.6 / 343.9
Declared Power Input D_D		kW	19.8 / 20.6	21.7 / 27.2	27.4 / 34.4	29.0 / 41.3
Declared $EER_{DC,D}$			13.40 / 8.76	13.34 / 8.90	12.76 / 8.50	12.41 / 8.33
SSCEE	2, 3, 5	%	188	187	184	180
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	332.6	362.9	437.9	451.1
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	332.1	362.3	437.2	450.4
Declared EER_d 35°C			3.34	3.23	3.25	3.23
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	304.0 / 235.4	275.2 / 207.6	332.0 / 250.5	421.0 / 299.5
Declared EER_d 30°C			4.19 / 4.25	4.17 / 4.23	4.18 / 4.24	3.98 / 4.20
Declared Cooling Capacity 25°C Pdc		kW	170.7 / 90.8	227.7 / 154.8	274.4 / 186.6	238.9 / 91.3
Declared EER_d 25°C			5.42 / 4.98	5.15 / 5.36	5.12 / 5.30	5.17 / 4.68
Declared Cooling Capacity 20°C Pdc		kW	99.2 / 0.0	82.8 / 0.0	99.8 / 0.0	99.7 / 0.0
Declared EER_d 20°C			6.12 / 0	6.00 / 0	5.80 / 0	5.71 / 0
Sound Power Level L		dB(A)	86	87	88	88
Air flow rate		m^3/h	130735	130735	156882	156882
Off mode P_{OFF}			0.078	0.078	0.078	0.078
Thermostat-off mode P_{TO}			2.065	2.532	3.528	3.795
Standby Mode P_{SB}			0.116	0.116	0.122	0.122
Crankcase heater mode P_{CK}			0.112	0.134	0.134	0.112

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Technical Data

Ecodesign - DCF (XQ)

	Notes	Units	DCF045DX-10LXX0	DCF053DX-11MXY0	DCF060DX-12MYY0	DCF062DX-12MYV0
SEPR	1, 3, 5		6.7	6.7	6.6	6.6
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	463340	540944	620012	648784
Rated Refrigerant Capacity P_A	1, 3, 5	kW	417.5	491.2	554.6	575.7
Rated Power Input D_A		kW	136.4	160.5	183.0	195.2
Rated $EER_{DC,A}$			3.06	3.06	3.03	2.95
Declared Refrigerant Capacity P_B	1, 3, 5	kW	463.1 / 389.5	545.0 / 449.1	518.9 / 422.6	538.7 / 441.6
Declared Power Input D_B		kW	111.5 / 91.8	131.5 / 104.9	123.3 / 96.5	128.8 / 102.0
Declared $EER_{DC,B}$			4.15 / 4.24	4.14 / 4.28	4.21 / 4.38	4.18 / 4.33
Declared Refrigerant Capacity P_C	1, 3, 5	kW	423.2 / 342.2	487.7 / 404.1	563.3 / 456.7	583.0 / 475.4
Declared Power Input D_C		kW	76.3 / 59.9	87.4 / 70.8	102.5 / 80.3	106.9 / 84.7
Declared $EER_{DC,C}$			5.55 / 5.71	5.58 / 5.71	5.50 / 5.69	5.45 / 5.61
Declared Refrigerant Capacity P_D		kW	333.4 / 265.0	392.3 / 301.2	443.0 / 354.6	459.8 / 365.3
Declared Power Input D_D		kW	34.1 / 39.6	39.4 / 44.7	45.7 / 52.8	47.7 / 54.8
Declared $EER_{DC,D}$			9.78 / 6.70	9.95 / 6.74	9.69 / 6.71	9.65 / 6.66
SSCEE	2, 3, 5	%	171	171	173	170
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	418.1	491.9	555.3	576.4
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	417.5	491.2	554.6	575.7
Declared EER_d 35°C			3.06	3.06	3.03	2.95
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	314.3 / 235.6	371.2 / 267.1	420.9 / 316.9	439.1 / 326.6
Declared EER_d 30°C			3.92 / 3.96	3.93 / 4.00	3.92 / 3.98	3.87 / 3.96
Declared Cooling Capacity 25°C Pdc		kW	258.0 / 172.6	291.8 / 203.2	346.0 / 233.2	356.2 / 241.5
Declared EER_d 25°C			4.74 / 4.84	4.77 / 4.82	4.74 / 4.90	4.71 / 4.82
Declared Cooling Capacity 20°C Pdc		kW	92.5 / 0.0	220.5 / 95.5	126.2 / 0.0	125.2 / 0.0
Declared EER_d 20°C			5.23 / 0	5.66 / 5.14	5.36 / 0	5.25 / 0
Sound Power Level L		dB(A)	86	87	87	88
Air flow rate		m^3/h	143912	158303	172694	172694
Off mode P_{OFF}			0.137	0.137	0.137	0.137
Thermostat-off mode P_{TO}			2.644	3.426	3.217	3.596
Standby Mode P_{SB}			0.242	0.245	0.248	0.248
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

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(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCF (XQ)

	Notes	Units	DCF067TX-14RNXX	DCF069TX-15RXXX	DCF076TX-16RXXY	DCF082TX-17RXYY
SEPR	1, 3, 5		6.5	6.9	6.7	6.6
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	710156	692574	777400	863794
Rated Refrigerant Capacity P_A	1, 3, 5	kW	625.8	640.7	707.4	767.5
Rated Power Input D_A		kW	205.9	205.4	228.9	251.6
Rated $EER_{DC,A}$			3.04	3.12	3.09	3.05
Declared Refrigerant Capacity P_B	1, 3, 5	kW	620.3 / 545.2	635.7 / 560.7	689.1 / 613.5	755.2 / 659.4
Declared Power Input D_B		kW	148.2 / 128.4	148.1 / 128.3	160.8 / 140.8	179.8 / 153.2
Declared $EER_{DC,B}$			4.19 / 4.25	4.29 / 4.37	4.28 / 4.36	4.20 / 4.31
Declared Refrigerant Capacity P_C	1, 3, 5	kW	591.3 / 505.1	609.2 / 526.3	666.0 / 582.5	714.8 / 631.3
Declared Power Input D_C		kW	106.3 / 91.0	106.6 / 90.1	117.2 / 100.5	127.5 / 110.8
Declared $EER_{DC,C}$			5.56 / 5.55	5.71 / 5.84	5.68 / 5.79	5.61 / 5.70
Declared Refrigerant Capacity P_D		kW	499.9 / 436.1	511.8 / 454.6	565.1 / 486.4	613.2 / 536.5
Declared Power Input D_D		kW	52.8 / 66.2	50.5 / 65.6	57.7 / 70.3	64.9 / 79.4
Declared $EER_{DC,D}$			9.46 / 6.59	10.13 / 6.93	9.80 / 6.92	9.44 / 6.76
SSCEE	2, 3, 5	%	168	176	174	170
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	626.5	641.4	708.1	768.3
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	625.8	640.7	707.4	767.5
Declared EER_d 35°C			3.04	3.12	3.09	3.05
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	541.9 / 461.6	483.5 / 403.7	534.2 / 428.9	579.5 / 474.1
Declared EER_d 30°C			3.78 / 3.77	4.01 / 4.04	3.98 / 4.03	3.92 / 3.95
Declared Cooling Capacity 25°C Pdc		kW	304.1 / 214.2	354.4 / 268.1	379.5 / 290.3	403.6 / 314.4
Declared EER_d 25°C			4.86 / 4.67	4.89 / 5.00	4.84 / 4.88	4.77 / 4.79
Declared Cooling Capacity 20°C Pdc		kW	134.7 / 0.0	194.1 / 96.7	190.1 / 93.1	216.2 / 92.9
Declared EER_d 20°C			4.97 / 0	5.68 / 5.11	5.52 / 4.85	5.37 / 4.66
Sound Power Level L		dB(A)	88	88	88	88
Air flow rate		m^3/h	201476	215867	230259	244650
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			3.974	3.710	4.115	4.884
Standby Mode P_{SB}			0.289	0.304	0.307	0.310
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2018.
(5) All performance data based upon standard waterside configuration.
(6) Please contact Airedale regarding Non Compliant selections.

Technical Data

Ecodesign - DCF (XQ)

	Notes	Units	DCF089TX-18RYYY	DCF094TX-18RYVV	DCF096TX-18RVVV	DCF099TX-18RVVW
SEPR	1, 3, 5		6.5	6.5	6.5	6.4
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	926205	1001557	1034867	1080274
Rated Refrigerant Capacity P_A	1, 3, 5	kW	815.2	872.6	904.9	932.7
Rated Power Input D_A		kW	272.6	298.8	311.0	327.3
Rated $EER_{DC,A}$			2.99	2.92	2.91	2.85
Declared Refrigerant Capacity P_B	1, 3, 5	kW	808.9 / 714.3	869.1 / 767.2	905.1 / 801.8	929.1 / 825.8
Declared Power Input D_B		kW	196.9 / 170.4	213.1 / 182.7	222.4 / 191.8	229.9 / 199.2
Declared $EER_{DC,B}$			4.11 / 4.19	4.08 / 4.20	4.07 / 4.18	4.04 / 4.15
Declared Refrigerant Capacity P_C	1, 3, 5	kW	773.3 / 668.6	827.6 / 720.0	866.2 / 750.9	896.8 / 781.6
Declared Power Input D_C		kW	141.4 / 119.4	151.5 / 129.3	158.5 / 133.6	165.0 / 140.0
Declared $EER_{DC,C}$			5.47 / 5.60	5.46 / 5.57	5.46 / 5.62	5.44 / 5.58
Declared Refrigerant Capacity P_D		kW	651.4 / 575.7	697.2 / 617.7	723.1 / 648.0	745.2 / 666.3
Declared Power Input D_D		kW	68.4 / 87.1	74.8 / 93.5	77.3 / 96.8	81.6 / 99.2
Declared $EER_{DC,D}$			9.53 / 6.61	9.32 / 6.61	9.35 / 6.69	9.13 / 6.72
SSCEE	2, 3, 5	%	170	165	171	169
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	816	873.4	905.8	933.5
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	815.2	872.6	904.9	932.7
Declared EER_d 35°C			2.99	2.92	2.91	2.85
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	617.1 / 514.8	663.9 / 549.1	694.0 / 580.0	716.9 / 592.9
Declared EER_d 30°C			3.86 / 3.89	3.83 / 3.86	3.87 / 3.91	3.83 / 3.90
Declared Cooling Capacity 25°C Pdc		kW	451.2 / 340.6	474.2 / 357.4	509.8 / 385.6	524.4 / 400.2
Declared EER_d 25°C			4.70 / 4.81	4.66 / 4.68	4.75 / 4.88	4.73 / 4.85
Declared Cooling Capacity 20°C Pdc		kW	245.7 / 122.0	252.2 / 119.0	277.9 / 138.1	277.8 / 138.0
Declared EER_d 20°C			5.46 / 4.95	5.25 / 4.62	5.51 / 4.96	5.47 / 4.89
Sound Power Level L		dB(A)	88	90	90	90
Air flow rate		m^3/h	259041	259041	259041	259041
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			4.531	5.756	5.501	5.914
Standby Mode P_{SB}			0.313	0.313	0.313	0.313
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

(1) Nominal conditions as stated in EU 2016/2281 Table 22.
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Technical Data

Ecodesign - DCF (XQ)

	Notes	Units	DCF101TX-18RWWW	DCF104TX-18RWWW	DCF046DX-12LXX0	DCF054DX-13MXY0
SEPR	1, 3, 5		6.4	6.3	6.9	6.9
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	1118491	1167793	461824	538470
Rated Refrigerant Capacity P_A	1, 3, 5	kW	960.6	988.5	427.3	502.5
Rated Power Input D_A		kW	341.9	356.9	132.3	155.6
Rated $EER_{DC,A}$			2.81	2.77	3.23	3.23
Declared Refrigerant Capacity P_B	1, 3, 5	kW	960.4 / 849.9	991.7 / 881.2	472.1 / 395.4	555.5 / 455.4
Declared Power Input D_B		kW	242.8 / 206.7	255.8 / 219.6	108.7 / 89.5	128.0 / 102.4
Declared $EER_{DC,B}$			3.95 / 4.11	3.88 / 4.01	4.34 / 4.42	4.34 / 4.45
Declared Refrigerant Capacity P_C	1, 3, 5	kW	927.6 / 812.4	965.1 / 843.2	427.6 / 344.7	493.0 / 407.0
Declared Power Input D_C		kW	171.4 / 146.4	182.1 / 152.8	74.4 / 58.5	85.4 / 69.3
Declared $EER_{DC,C}$			5.41 / 5.55	5.30 / 5.52	5.75 / 5.89	5.78 / 5.87
Declared Refrigerant Capacity P_D		kW	767.6 / 702.9	789.9 / 739.5	341.2 / 264.9	401.3 / 301.2
Declared Power Input D_D		kW	84.2 / 103.9	88.4 / 108.7	34.4 / 39.4	39.6 / 44.4
Declared $EER_{DC,D}$			9.12 / 6.76	8.93 / 6.80	9.92 / 6.73	10.14 / 6.78
SSCEE	2, 3, 5	%	167	165	176	175
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	961.5	989.4	427.9	503.2
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	960.6	988.5	427.3	502.5
Declared EER_d 35°C			2.81	2.77	3.23	3.23
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	739.9 / 615.9	762.9 / 638.9	316.8 / 237.2	374.0 / 269.0
Declared EER_d 30°C			3.78 / 3.84	3.74 / 3.79	4.05 / 4.07	4.05 / 4.11
Declared Cooling Capacity 25°C Pdc		kW	538.9 / 414.8	564.5 / 429.4	259.8 / 173.4	293.8 / 204.2
Declared EER_d 25°C			4.70 / 4.81	4.62 / 4.78	4.87 / 4.94	4.90 / 4.91
Declared Cooling Capacity 20°C Pdc		kW	294.3 / 138.0	310.7 / 154.5	93.0 / 0.0	221.5 / 96.0
Declared EER_d 20°C			5.43 / 4.82	5.40 / 4.83	5.33 / 0	5.77 / 5.24
Sound Power Level L		dB(A)	91	91	87	87
Air flow rate		m^3/h	259041	259041	172694	187085
Off mode P_{OFF}			0.149	0.149	0.137	0.137
Thermostat-off mode P_{TO}			6.350	6.804	2.593	3.415
Standby Mode P_{SB}			0.313	0.313	0.248	0.251
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

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Technical Data

Ecodesign - DCF (XQ)

	Notes	Units	DCF061DX-14MYY0	DCF063DX-14MYV0	DCF069TX-17RNXX	DCF071TX-18RXXX
SEPR	1, 3, 5		6.8	6.8	6.9	7.1
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	616925	646300	695096	686652
Rated Refrigerant Capacity P_A	1, 3, 5	kW	566.8	589.5	642.7	655.9
Rated Power Input D_A		kW	177.7	188.9	198.4	199.4
Rated $EER_{DC,A}$			3.19	3.12	3.24	3.29
Declared Refrigerant Capacity P_B	1, 3, 5	kW	626.5 / 526.0	652.9 / 546.0	632.2 / 553.8	646.7 / 568.3
Declared Power Input D_B		kW	145.9 / 120.2	154.4 / 125.6	143.4 / 124.1	144.3 / 125.1
Declared $EER_{DC,B}$			4.29 / 4.38	4.23 / 4.35	4.41 / 4.46	4.48 / 4.54
Declared Refrigerant Capacity P_C	1, 3, 5	kW	570.3 / 459.8	589.9 / 478.4	599.1 / 512.0	615.9 / 530.9
Declared Power Input D_C		kW	100.2 / 78.7	104.5 / 83.0	103.2 / 88.4	104.1 / 88.1
Declared $EER_{DC,C}$			5.69 / 5.84	5.64 / 5.77	5.80 / 5.79	5.92 / 6.03
Declared Refrigerant Capacity P_D		kW	452.8 / 354.6	470.9 / 365.3	513.4 / 436.1	524.0 / 454.5
Declared Power Input D_D		kW	45.8 / 52.5	47.8 / 54.5	51.5 / 65.0	50.3 / 65.2
Declared $EER_{DC,D}$			9.88 / 6.75	9.86 / 6.70	9.97 / 6.71	10.41 / 6.97
SSCEE	2, 3, 5	%	178	175	176	181
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	567.5	590.2	643.4	656.6
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	566.8	589.5	642.7	655.9
Declared EER_d 35°C			3.19	3.12	3.24	3.29
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	423.9 / 318.9	442.9 / 328.6	551.1 / 470.2	487.1 / 406.5
Declared EER_d 30°C			4.04 / 4.09	3.99 / 4.06	3.99 / 3.98	4.14 / 4.17
Declared Cooling Capacity 25°C Pdc		kW	348.1 / 234.3	358.2 / 242.5	306.2 / 215.8	356.9 / 269.6
Declared EER_d 25°C			4.86 / 4.99	4.83 / 4.91	5.01 / 4.83	5.02 / 5.11
Declared Cooling Capacity 20°C Pdc		kW	126.8 / 0.0	125.8 / 0.0	136.0 / 0.0	195.1 / 97.2
Declared EER_d 20°C			5.47 / 0	5.34 / 0	5.17 / 0	5.80 / 5.21
Sound Power Level L		dB(A)	87	88	88	88
Air flow rate		m^3/h	201476	201476	244650	259041
Off mode P_{OFF}			0.137	0.137	0.149	0.149
Thermostat-off mode P_{TO}			3.168	3.565	3.565	3.661
Standby Mode P_{SB}			0.254	0.254	0.298	0.313
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

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Technical Data

Ecodesign - DCF (XQ)

	Notes	Units	DCF078TX-19RXXY	DCF084TX-20RXYY	DCF091TX-21RYYY	DCF096TX-21RYVV
SEPR	1, 3, 5		6.9	6.8	6.7	6.6
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	773319	859439	915872	997247
Rated Refrigerant Capacity P_A	1, 3, 5	kW	724.3	785.1	832.8	893.9
Rated Power Input D_A		kW	221.5	244.6	265.2	289.3
Rated $EER_{DC,A}$			3.27	3.21	3.14	3.09
Declared Refrigerant Capacity P_B	1, 3, 5	kW	700.9 / 621.6	767.6 / 667.3	820.9 / 722.2	882.8 / 776.0
Declared Power Input D_B		kW	156.6 / 137.3	175.1 / 149.5	192.0 / 166.4	207.1 / 178.3
Declared $EER_{DC,B}$			4.48 / 4.53	4.38 / 4.47	4.28 / 4.34	4.26 / 4.35
Declared Refrigerant Capacity P_C	1, 3, 5	kW	673.3 / 587.2	722.2 / 636.1	781.2 / 673.0	835.8 / 724.3
Declared Power Input D_C		kW	114.3 / 98.3	124.5 / 108.5	138.5 / 117.2	148.3 / 126.7
Declared $EER_{DC,C}$			5.89 / 5.98	5.80 / 5.86	5.64 / 5.74	5.64 / 5.71
Declared Refrigerant Capacity P_D		kW	578.7 / 486.3	627.3 / 536.4	665.4 / 575.8	714.2 / 617.7
Declared Power Input D_D		kW	58.0 / 69.9	65.2 / 78.9	67.3 / 86.6	74.8 / 93.0
Declared $EER_{DC,D}$			9.98 / 6.96	9.62 / 6.80	9.88 / 6.65	9.55 / 6.64
SSCEE	2, 3, 5	%	179	174	174	170
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	725.1	786	833.5	894.7
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	724.3	785.1	832.8	893.9
Declared EER_d 35°C			3.27	3.21	3.14	3.09
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	538.5 / 431.8	583.8 / 477.3	621.3 / 518.1	669.6 / 552.9
Declared EER_d 30°C			4.11 / 4.15	4.04 / 4.06	3.97 / 3.99	3.95 / 3.96
Declared Cooling Capacity 25°C Pdc		kW	381.9 / 291.6	406.0 / 315.7	453.6 / 342.1	476.3 / 358.6
Declared EER_d 25°C			4.96 / 4.98	4.88 / 4.88	4.81 / 4.90	4.76 / 4.76
Declared Cooling Capacity 20°C Pdc		kW	191.1 / 93.6	217.2 / 93.4	246.8 / 122.6	253.1 / 119.5
Declared EER_d 20°C			5.63 / 4.95	5.47 / 4.75	5.56 / 5.03	5.33 / 4.69
Sound Power Level L		dB(A)	88	88	89	90
Air flow rate		m^3/h	273432	287823	302214	302214
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			4.072	4.845	4.502	5.794
Standby Mode P_{SB}			0.316	0.319	0.322	0.322
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

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Technical Data

Ecodesign - DCF (XQ)

	Notes	Units	DCF098TX-21RVVV	DCF101TX-21RVVW	DCF104TX-21RVWW	DCF108TX-21RWWW
SEPR	1, 3, 5		6.7	6.6	6.6	6.6
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	1026585	1073989	1112321	1137919
Rated Refrigerant Capacity P_A	1, 3, 5	kW	928.1	957.5	986.9	1016.2
Rated Power Input D_A		kW	300.4	315.0	329.0	343.3
Rated $EER_{DC,A}$			3.09	3.04	3	2.96
Declared Refrigerant Capacity P_B	1, 3, 5	kW	920.4 / 811.9	946.4 / 837.9	979.7 / 863.9	1013.0 / 897.2
Declared Power Input D_B		kW	215.5 / 186.5	222.9 / 193.9	234.9 / 201.3	247.0 / 213.4
Declared $EER_{DC,B}$			4.27 / 4.35	4.25 / 4.32	4.17 / 4.29	4.10 / 4.21
Declared Refrigerant Capacity P_C	1, 3, 5	kW	874.7 / 754.7	906.5 / 786.5	938.3 / 818.2	978.6 / 850.0
Declared Power Input D_C		kW	154.7 / 130.7	160.8 / 136.9	167.0 / 143.0	176.9 / 149.2
Declared $EER_{DC,C}$			5.65 / 5.77	5.64 / 5.75	5.62 / 5.72	5.53 / 5.70
Declared Refrigerant Capacity P_D		kW	741.6 / 648.0	765.1 / 666.2	788.6 / 702.8	812.1 / 739.3
Declared Power Input D_D		kW	76.6 / 96.2	81.4 / 98.5	84.1 / 103.1	83.7 / 107.7
Declared $EER_{DC,D}$			9.68 / 6.74	9.40 / 6.76	9.38 / 6.82	9.70 / 6.86
SSCEE	2, 3, 5	%	175	174	172	170
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2, 4, 5	kW	929	958.4	987.8	1017.1
Declared Cooling Capacity 35°C Pdc	2, 3, 5	kW	928.1	957.5	986.9	1016.2
Declared EER_d 35°C			3.09	3.04	3	2.96
Declared Cooling Capacity 30°C Pdc	2, 3, 5	kW	701.7 / 585.7	726.4 / 598.8	751.1 / 623.5	775.8 / 648.3
Declared EER_d 30°C			4.00 / 4.03	3.96 / 4.01	3.92 / 3.97	3.89 / 3.92
Declared Cooling Capacity 25°C Pdc		kW	513.0 / 387.4	527.8 / 402.2	542.6 / 417.0	570.4 / 431.9
Declared EER_d 25°C			4.87 / 4.98	4.85 / 4.94	4.83 / 4.91	4.75 / 4.88
Declared Cooling Capacity 20°C Pdc		kW	279.1 / 138.7	279.0 / 138.7	295.8 / 138.6	312.5 / 155.4
Declared EER_d 20°C			5.61 / 5.05	5.56 / 4.97	5.54 / 4.90	5.51 / 4.92
Sound Power Level L		dB(A)	90	91	91	91
Air flow rate		m^3/h	302214	302214	302214	302214
Off mode P_{OFF}			0.149	0.149	0.149	0.149
Thermostat-off mode P_{TO}			5.505	5.934	6.384	6.855
Standby Mode P_{SB}			0.322	0.322	0.322	0.322
Crankcase heater mode P_{CK}			0.000	0.000	0.000	0.000

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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.

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