

DeltaChill Air Cooled
& Free Cool Chiller

100-510kW
R410A



Technical Manual



FM00542

EMS52086

Customer Services

Warranty, Commissioning & Maintenance

As standard, Airedale guarantees all non consumable parts only for a period of 12 months, variations tailored to suit product and application are also available; please contact Airedale for full terms and details.

To further protect your investment in Airedale products, Airedale can provide full commissioning services, comprehensive maintenance packages and service cover 24 hours a day, 365 days a year (UK mainland).

For a free quotation contact Airedale or your local Sales Engineer.

All Airedale products are designed in accordance with EU Directives regarding prevention of build up of water, associated with the risk of contaminants such as legionella.

For effective prevention of such risk it is necessary that the equipment is maintained in accordance with Airedale recommendations.

ChillerGuard

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

Full details will be forwarded on acceptance of the maintenance agreement.

CAUTION 	Warranty cover is not a substitute for maintenance. Warranty cover is conditional to maintenance being carried out in accordance with the recommendations provided during the warranty period. Failure to have the maintenance procedures carried out will invalidate the warranty and any liabilities by Airedale International Air Conditioning Ltd.
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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: enquiries@airedale.com or telephone:

UK Sales Enquiries	+ 44 (0) 113 239 1000	enquiries@airedale.com
International Enquiries	+ 44 (0) 113 239 1000	enquiries@airedale.com
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For information, visit us at our web site: www.airedale.com

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Health and Safety

IMPORTANT

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

Safety

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

CAUTION 	When working with any air conditioning units ensure that the electrical isolator is switched off prior to servicing or repair work and that there is no power to any part of the equipment. Also ensure that there are no other power feeds to the unit such as fire alarm circuits, BMS circuits etc.
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Electrical installation commissioning and maintenance work on this equipment should be undertaken by competent and trained personnel in accordance with local relevant standards and codes of practice.

A full hazard data sheet in accordance with COSHH regulations is available should this be required.

Personal Protective Equipment

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

Manual Handling

Some operations when servicing or maintaining the unit may require additional assistance with regard to manual handling. This requirement is down to the discretion of the engineer.

Remember do not perform a lift that exceeds your ability.

Refrigerant Warning

The Airedale unit uses R410A refrigerant which requires careful attention to proper storage and handling procedures.

Use only manifold gauge sets designed for use with R410A refrigerant. Use only refrigerant recovery units and cylinders designed for high pressure refrigerants.

R410A must only be charged in the liquid state to ensure correct blend makeup.

The refrigerant must be stored in a clean, dry area away from sunlight. The refrigerant must never be stored above 50°C.

Pressure Equipment Directive (2014/68/EU)

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

Refrigeration

Allowable Temperature Range (TS) = Min -20°C* to Max 120°C**

Maximum Allowable Pressure (PS) = High Side 40.7 Barg Low side 30Barg

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

**Based on the maximum allowable super heated refrigerant temperature.

Waterside

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.

Pressure System Safety Regulations 2000

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

Global Warming Potential

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

Ecodesign Directive 2009/125/EC

The product range within this document is designed in accordance to the European Ecodesign Directive 2009/125/EC.

The appendix at the rear section of the manual gives the product compliancy metrics. Products sold outside of the EU are exempt from this directive.

Dangerous Substances and Explosive Atmospheres Regulations

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

Environmental Considerations

Units with supply water temperatures below +5°C

- Glycol is recommended when a supply water temperature of +5°C or below is required or when static water can be exposed to freezing temperatures.

Units subject to ambient temperatures lower than 0°C

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

(1) Refer to your glycol supplier for details.

Environmental Policy

It is our policy to:

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

CE Directive

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

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

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

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General Description

Nomenclature

DC	DeltaChill	F	44	D	R-	10	B	S	S	0
F	F = FreeCool Chiller C = Air Cooled Chiller									
XXX	Nominal Capacity (kW/10)									
S	Number of Circuits Single Circuit									
D	Dual Circuit									
R-	Noise Variant Regular Quiet									
X-	Extra Quiet									
4 - 12	Number of Fans									
A - B	Evaporator Type									
A - T	Compressor Configuration Circuit 1									
A - T	Compressor Configuration Circuit 2; 0 if n/a									
A - T	Compressor Configuration Circuit 3; 0 if n/a									

Introduction

The Airedale range of DeltaChill Compact air cooled and Free Cooling liquid chillers covers the nominal capacity range 100 kW to 510 kW. The range is available with many optional variations including Quiet (R) and Extra Quiet (X) sound level variants.

Attention has been placed on maximising the unit's performance while keeping footprint to an absolute minimum.

DeltaChill is a compact, high efficiency, air cooled chiller designed to bring you an energy optimised, low sound cooling solution. 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.

Optimised Efficiency

Excellent part load efficiencies increase the DeltaChill's seasonal efficiency (ESEER and SEER values), significantly enhanced by:

- Intelligent, interactive control logic.
- Integration of optional EC fan technology and interactive head pressure setpoint management (included within the EC fan option).
- Compressor sequencing.
- Distinctive, modular 'V' frame coil-fan arrangement which also facilitates easy maintenance access.

Standard Features**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. Standard unit colour is Light Grey (RAL 7035).

Compressors and evaporator are mounted on a rigid galvanised heavy-duty sub frame. Fully weatherproofed electrical panels are situated at one end of the unit.

Evaporator

Stainless steel high efficiency brazed plate heat exchanger(s) will allow optimum heat transfer between media. Each heat exchanger is insulated with closed cell polyurethane foam to Class 1 fire rating.

A pad heater is fitted to the single evaporator and will protect against freeze up in ambient temperatures as low as -20°C. Internal water pipework is trace heated. Connections for External Trace Heating (230V/500W available).

Free Cooling Coil

The DeltaChill Free Cool 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.

The Free cool coil is manufactured from copper tube and aluminium fins.

Free Cooling Operation

In high ambients where free cooling is not available the fan speed modulates in the conventional manner to maintain a constant head pressure. Free cooling is initiated wherever the outdoor ambient is 1°C less than the return water temperature.

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 satisfying the full cooling demand, the condenser fans are modulated to provide the desired duty. The condenser fans are capable of being modulated between 25-100% 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.

Condenser Fan & Motor - AC

Axial fan assemblies with finger proof grille and incorporating external rotor ac motor technology, capable of highly accurate discreet speed control, discharges air vertically. The fans offer maximum performance while keeping sound levels to a minimum.

Lifting Eye Bolts

Lifting eye bolts shall be fitted to the unit.

Refrigeration Components

Condenser

Large surface area coils ideally positioned to optimise airflow and heat transfer, manufactured from micro channel coil with aluminium fins

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 -20°C. Head pressure can be set, monitored and values viewed at the microprocessor display.

Compressor Staging

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

Compressor

Scroll compressors comprising:

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

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.

Discharge Line Ball valves

Discharge line ball valves are fitted to ensure ease of maintenance during shut down periods.

Liquid Line Ball Valves

Liquid line ball valves are fitted to ensure ease of maintenance during shut down periods.

Filter driers

Filter driers are fitted to ensure that the expansion device is protected from any potential contaminants in the system. This can be serviced with changeable inner cores.

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.

HP/LP Transducers and Switches

HP/LP Transducers and switches are fitted to the unit to protect against high or low pressures.

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.



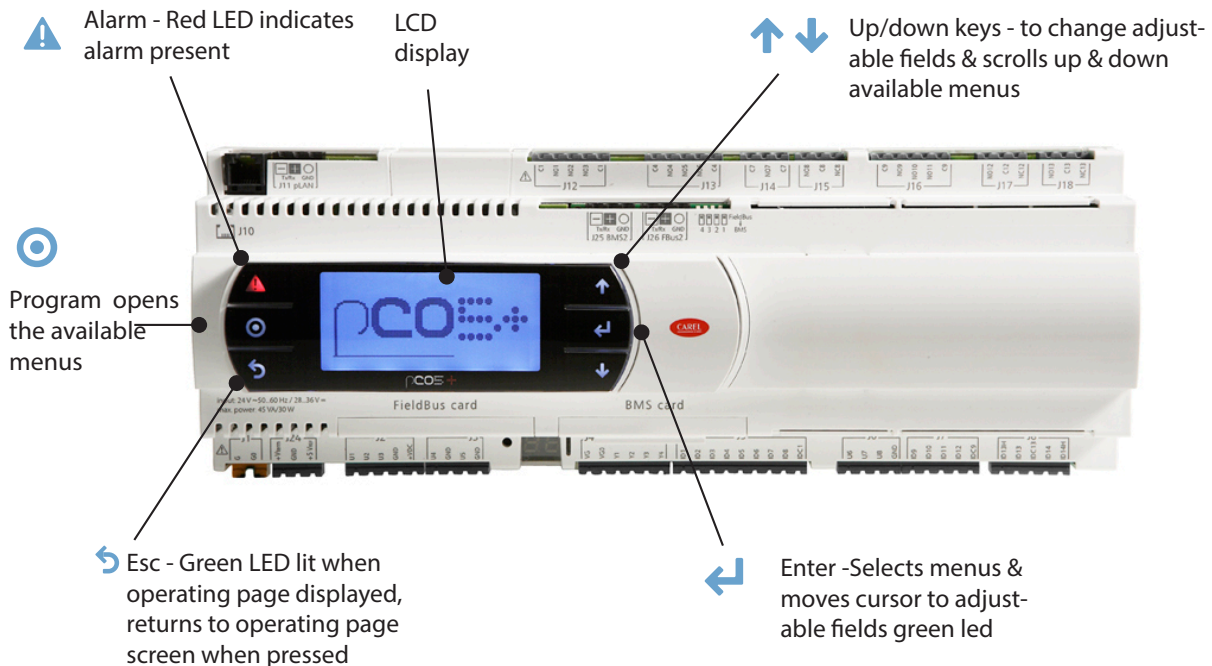
Controls

General Description

The microprocessor controller offers powerful analogue and digital control to meet a wide range of monitoring and control features including a real time clock and Industry standard communication port 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.

Also featured are a visual alarm and the facility to adjust and display control settings by local operator for information and control.



Display/Keypad

- 1 UP/DOWN KEYS - To change Adjustable Fields & Scrolls up & down available Menus
- 2 ENTER -Selects Menus & Moves Cursor to Adjustable Fields Green LED
- 3 ESC - Green LED lit when Operating Page displayed, Returns to Operating Page Screen when pressed
- 4 PROGRAM - Opens the Available Menus
- 5 ALARM - Red LED Indicates Alarm Present
- 6 4 ROW LCD DISPLAY
- 7 CURSOR (FLASHING) Top Left Position = "HOME" Indicates adjustable Fields

Controls

Monitoring

The microprocessor also monitors and displays the following measured parameters:

- Supply Water Temperature
- Return Water Temperature
- Suction Pressure of each circuit
- Liquid Pressure of each circuit
- Suction Temperature at each circuit
- Superheat for each circuit

Alarm Handling

The controller logs and allows viewing of the last 100 conditions recorded in descending chronological order through the keypad display.

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

Common for both circuits (Dual Circuit units):

- Low Supply Temperature
- Emergency Stop
- Water Flow
- Pump(s) status
- Pump(s) remote start
- Volt Free Contact Alarm Indication

Individual for each circuit:

Individual alarms will isolate the affected circuit only.

- Compressor Trip
- Low Suction Pressure for each circuit
- High Liquid Pressure for each circuit
- Low Pressure Switch
- Compressor Overload
- High Compressor Discharge Temperature

Networking

A Local Area Network can be used to connect a number of chiller controllers to offer intercommunication and sequence control. There is also the facility to allow the connection of either a computer or modem for local or remote monitoring. For further details, please contact Airedale.

CAUTION ⚠

When adding to an existing network, please consult Airedale to ensure strategy compatibility.

Standard Features

Unit Remote ON/OFF

Disables/Enables the Chiller remotely.

Compressor Anti Cycle Control

Automatic via the Microprocessor.

Compressor Load Limit

Limits the condensing pressure by unloading above 40Barg. Limits the evaporating pressure by unloading at the minimum pressure setpoint, which is, adjustable depending on system glycol content.

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

Remote Setback Temperature Setpoint Switch

A setback setpoint for supply water temperature can be selected to suit summer/winter conditions or night setback.

Compressor Hours Run

Displays hours run of each compressor.

Password Protection

The control system integrity can be maintained by restricting access with a password PIN number.

CAUTION

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

Optional Features

Pump(s) Hours Run

Displays hours run of each pump.

BMS Interface Card

Enables Controlled units to be interfaced with most BMS, factory fitted, please contact Airedale.

A wide range of protocols can be accommodated through the use of interface devices. Available as a standard option are: ModBus/Jbus, LonWorks, BACnet and Carel.

For interfaces such as SNMP and Metasys please contact Airedale.

Also available is Airedale's own supervisory plug-in BMS card pCOWEB.

Based on Ethernet TCP/IP secure technology with SNMP features.

Requires no proprietary cabling or monitoring software and supplied pre-programmed with an IP address for ease of set up. BMS system configuration by others.

Waterside**Flow Proving Device**

An evaporator differential pressure sensor facilitates low flow limiting and pressure drop monitoring via the microprocessor.

Pump Interlock

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

Water Flow Switch**CAUTION** ⚠

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

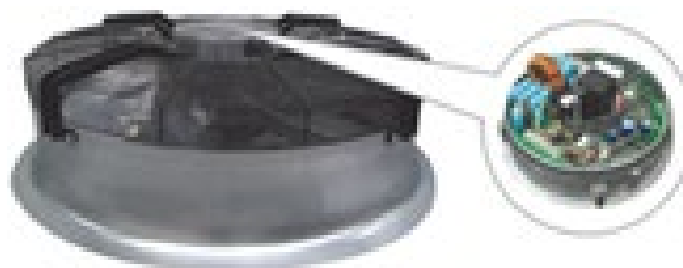
Water Filter

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

Optional features - Energy saving

Electronically Commutated (EC) Fan Motor

Each 800mm 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 design for convenient mains connection within the busbar chamber.



Power Factor Correction

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.

Extra Free Cool

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

Optional extras - energy saving

Pump - Inverter Driven - Variable Speed for Constant Water Flow

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:

- electronic flow metering system
- isolating valves
- inlet strainer
- electrical switchgear

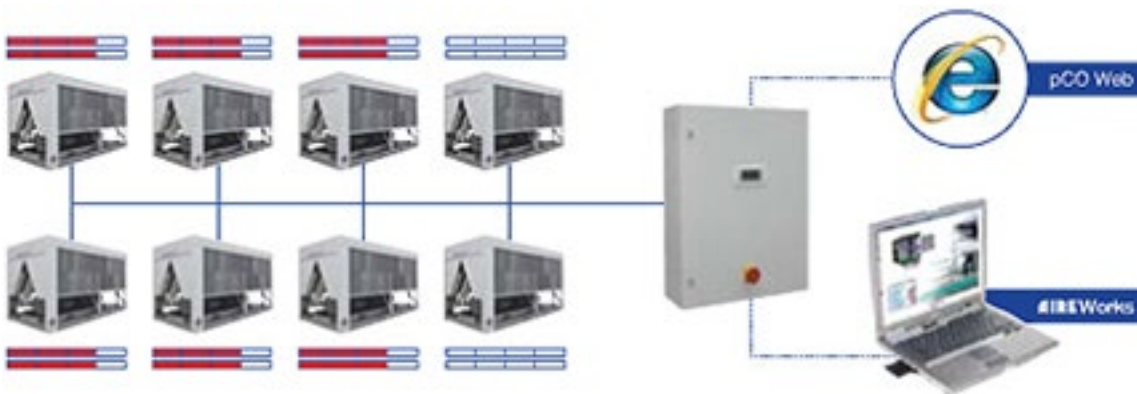
Chiller Sequence Manager

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 8 units can be sequenced.

Included within this package is a site visit by Airedale Control Specialists to set up multiple unit sequence control.

The chiller sequence manager is supplied as a separate control panel to be mounted remotely indoors, such as a plant room.



Energy Manager

Analysis of system energy consumption can be monitored via a dedicated LCD display. Unit parameters can be adjusted via the unit microprocessor control to affect energy usage in line with the system need.

Optional Extras – General

Corrosion Resistant Coated Coils

In atmospheres where high corrosion is anticipated a corrosion resistant epoxy coating is applied to the aluminium fins.

Anti Vibration Mounts (Spring Type)

Spring 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 high level of vibration elimination is required.

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.

No Discharge Plenum

No discharge plenum is fitted as standard

Discharge Air Plenum - Condenser Fan

Factory fitted and constructed from galvanised sheet steel coated with epoxy baked powder paint, this plenum shall direct discharge air vertically which reduces air re-circulation and provides a degree of acoustic reduction in the horizontal plane. Standard unit colour shall be Light Grey (RAL 7035).

The overall unit height when fitted with the standard discharge air plenum is 2800mm.

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; factory fitted. For details please contact Airedale. Standard unit colour is Light Grey (RAL 7035).

The overall unit height when fitted with the standard discharge air plenum is 3300mm.

Optional Extras - Controls**BMS Interface Card**

Enables controlled chillers to be interfaced with most BMS, including Airedale's own pCOWeb, factory fitted, please contact Airedale.

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.

R410A Leak Detection System

The refrigerant leak detection is located within the compressor enclosure. The sensor is positioned at the lowest point to ensure correct operation. Detection rate of 100 ppm ensures detection in case of refrigerant leakage. The leak detector has relay outputs allowing for alarm monitoring via the Airedale controller. This relay output can provide facilities for refrigerant pump down (Airedale chiller model dependant) for refrigerant containment.

The refrigerant leak detection assures best environment practices in accordance with the BRE Environmental assessment method (BREEAM) pollution section.

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:

- flow switch
- isolating valves
- inlet strainer
- electrical switchgear

Inverter driven variable speed pumps are also available; refer to Pump - Inverter Driven - Variable Speed for Constant Water Flow.

Phase Rotation Protection

A phase sequence relay is available for units containing 3 phase scroll compressors, to prevent possible damage by running the compressor in the wrong direction.

Mains EMC Filter

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 busbar chamber. EC fans only.

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.

Remote Setpoint Adjust

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

Waterside Options**Water Filter**

A 20 mesh water filter can be supplied fitted to protect the evaporator from clogging by sediment. Certain models the filter is fitted externally (4 Fan models).

Flushing Bypass Kit (Standard)

Comprises:

- Shut off valves

Flushing Bypass Kit (Regulating)

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

CAUTION ⚠

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

Commissioning Options**Commissioning**

Airedale Service provides a full commissioning service carried out by professionally trained, industry experienced engineers. For a competitive quotation, please contact Airedale Customer Services.

ChillerGuard® (UK Mainland)

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

Design Features & Information

Energy Saving Features

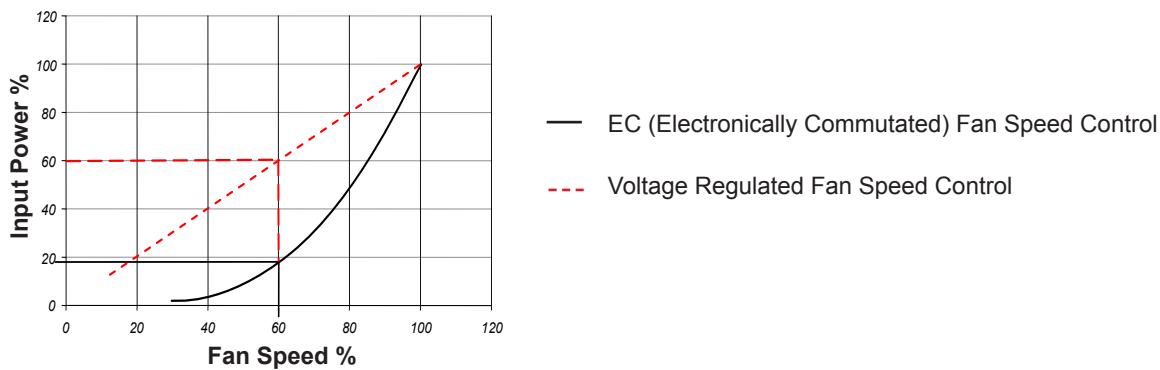
Electronically Commutated (EC) Fan Motor

EC motors are DC motors with integrated AC to DC conversion; this gives the flexibility of connecting to ac mains with the efficiency and simple speed control of a DC motor. The EC fan offers significant power reduction in comparison with equivalent AC fan at both full and modulated fan speeds. The inbuilt 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. By comparison 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.



Example:

Fan speed of 60%

Voltage regulated input power required 60%

EC input power required 18%

EMC Mains Filter

A mains EMC filter is fitted when the EC fan option is selected with the unit. The filter is design for convenient mains connection within the busbar chamber.

Energy Saving Features

Pump Options

A variety of pump options to suit a wide range of applications is available:

Factory fitted in line as a single pump or run/standby configuration and available in standard and larger nominal external head pressures.

Factory fitted run/standby pumps have a shut off valve to the inlet and a non return valve to the outlet, enabling one pump to be maintained without interrupting Chiller flow. Supplied with electrical switchgear and isolating valve as standard.

Run/standby pumps are rotated automatically to ensure even pump usage and prolong component life.

Standard - AC Motor - Fixed Speed –

Standard Head Standard fixed speed pumps (standard unit heads) are also available.

Standard - AC Motor - Fixed Speed – High head

Standard fixed speed pumps with high head are also available.

Inverter Driven Motor - Variable Speed for Constant Water Flow- Standard head

Flow is monitored by the onboard electronic flow meter to maintain the exact requirement of the application, thus saving pump input power whilst providing optimum chilled water flow control.

The option of an onboard variable speed drive combined with the electronic flow metering system offers an exceptional combination of simple commissioning and optimised efficiency.

Inverter Driven Motor - Variable Speed for Constant Water Flow- High Hea

As above but with high head capacity.

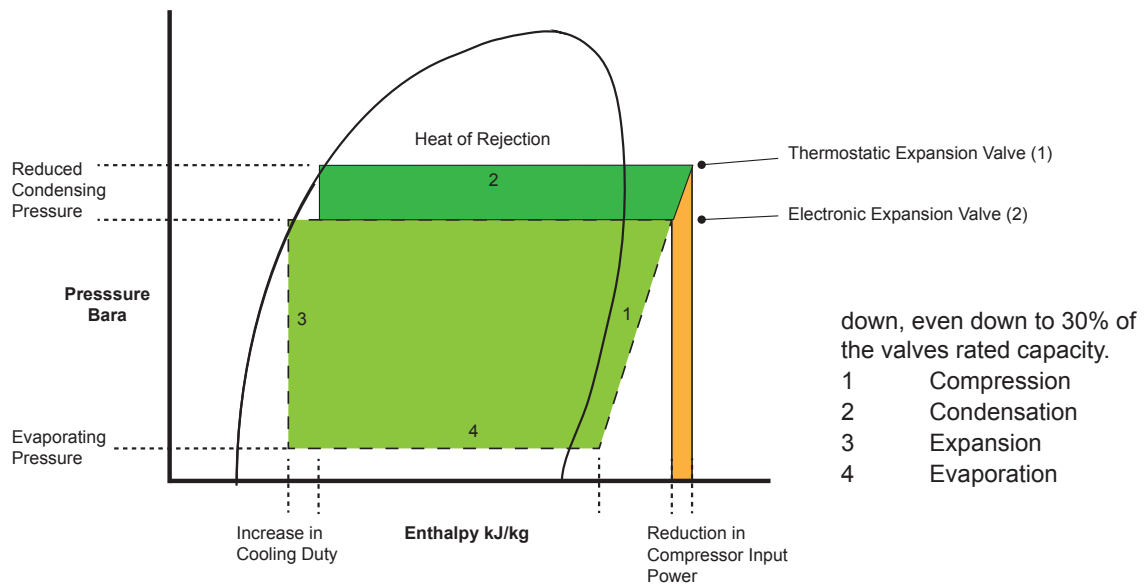
Design Features & Information

Energy saving features

Electronic Expansion Valves (EEV)

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.

Electronic expansion valves differ to normal thermostatic expansion valves in their ability to maintain control of refrigerant flow and the suction superheat at reduced head pressures. The turn-down rate of a typical EEV is superior to that of its thermostatic equivalent, such that a reduced optimum condensing pressure can be maintained at low compressor load. However low the load is on the compressor, from zero to 100%, there will not be a problem with turn



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).

Minimum System Water Volume Calculations**METHOD 1**

(Preferred Method)

Where the system permanent heat load is known, the minimum water volume in litres Vmin is:

$$V_{min} = \text{Water Flow Rate (litres/minute)} \times \text{Minimum Compressor Run Time (mins)} \times \text{Chiller Loading Factor}$$

Where Vmin is the minimum water volume in litres

Minimum Compressor Run Time is 2 minutes

$$\text{Chiller Loading Factor} = \frac{\text{Minimum Turndown (kW)} \times 1.2}{\text{Permanent Heat Load}}$$

Example:

Chiller at 35°C Ambient, 7/12°C Water, Model DCC033DR-08BMM0 with a permanent load of 129.6kW

Unit capacity at design conditions	=	326 kW
Permanent Heat Load	=	129.6kW
Minimum Turndown	=	27%

$$V_{min} = \frac{326 \times 60}{4.19 \times 5} \times 2 \times \frac{(326 \times 0.27)}{129.6} \times 1.2 = 1522 \text{ Litres}$$

METHOD 2

Where the system permanent heat load is unknown:

$$V_{min} = \frac{\text{Water Flow Rate (litres/hour)} \times \text{Minimum Turndown Ratio} \times 1.2}{\text{Maximum number of compressor starts (per hour)}}$$

Example:

Chiller at 35°C Ambient, 7/12°C Water, Model DCC033DR-08BMM0

Unit capacity at design conditions	=	326 kW
Minimum Turndown	=	27% (0.27)

$$V_{min} = \frac{326 \times 3600 \times 0.27 \times 1.2}{4.19 \times 5 \times 12} = 1512.5 \text{ Litres}$$

Temperature Control

Airedale recognises that all chiller applications are different but fall mainly into 2 application categories; Variable Supply Temperature and Constant Supply Temperature.

The onboard microprocessor has the capability of satisfying either control requirement as illustrated below. Using the Airedale Variable Supply Temperature control scheme, energy savings are available when compared with previous schemes and that of the Constant Supply Temperature application.

Variable Supply Temperature control schemes offer energy savings where the supply water temperature is not critical to its operation.

Selection of the best application control scheme can be made via a soft switch in the microprocessor during initial commissioning.

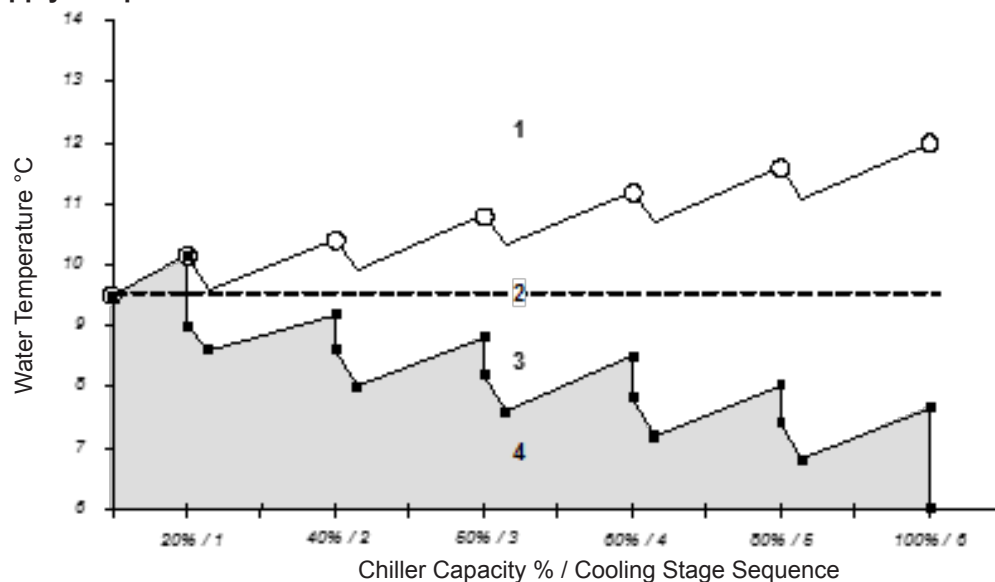
The microprocessor maintains the set supply Chilled Water temperature by sensing the return and supply water temperatures and ambient air temperature and adjusting the compressor loading as required.

Examples based on Model DCC033DR-08BMM0 having 6 Stages of Cooling

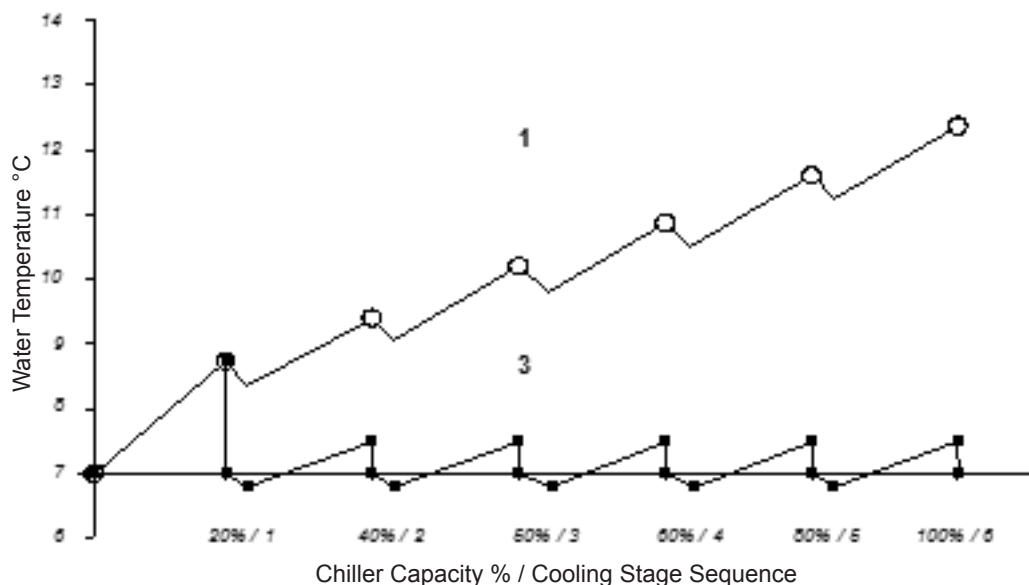
Key:

- 1 Return Water Temperature
- 2 Mean Value
- 3 Supply Water Temperature
- 4 Compressor Off

Variable Supply Temperature Control



Constant Supply Temperature Control



Operating Limits (For 100% Water)

Unit with Electronic Fan Speed HP Control (-20°C)	
Minimum Ambient Air DB °C	-20°C
Maximum Ambient Air DB °C	Refer to Performance Data – Capacity Data
Minimum Leaving Water Temperature °C	+5°C and +6°C (DCC and DCF respectively)
Maximum Return Water Temperature °C	+18°C and +20°C (DCC and DCF respectively)

- Temperatures lower than those stated can be obtained with the addition of glycol.
- For conditions outside those quoted, please refer to Airedale.

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 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 all loading stages, and with a fixed 7°C supply temperature. All calculations assume the system operates with 100% water.

$$\text{ESEER} = 0.03.\text{EER}_{100\%} + 0.33.\text{EER}_{75\%} + 0.41.\text{EER}_{50\%} + 0.23.\text{EER}_{25\%}$$

Where 0.03, 0.33, 0.41 and 0.23 are specified weighting factors for use on calculating ESEER.

Temperature	35°C	30°C	25°C	20°C
Capacity Requirement	100%	75%	50%	25%
Percentage of Total Hours	0.03	0.33	0.41	0.23

Glycol Data

Glycol is recommended when a supply water temperature of +5°C or below is required or when static water can be exposed to freezing temperatures.

For a given percentage of glycol in the system there are correction factors that need to be applied, the following tables can be used as a guide.

Ethylene Glycol Nominal Correction Factors

Glycol in System / Freezing Point °C		10% / -4°C	20% / -9°C	30% / -15°C	40% / -23°C
Cooling Duty	Catalogue Data x by:	0.98	0.97	0.95	0.93
Input Power		0.99	0.98	0.96	0.95
Water Flow		0.99	1.02	1.04	1.07
Pressure Drop		1.05	1.20	1.38	1.57

Propylene Glycol Nominal Correction Factors

Glycol in System / Freezing Point °C		10% / -2°C	20% / -6°C	30% / -12°C	40% / -20°C
Cooling Duty	Catalogue Data x by:	0.97	0.95	0.91	0.88
Input Power		0.99	0.98	0.96	0.95
Water Flow		0.98	0.97	0.95	0.95
Pressure Drop		1.08	1.17	1.31	1.45

Example

DCC033DR-08BMM0 operating at 7/12, 35°C Ambient, 20% Ethylene Glycol, with AC condenser fans.

		Catalogue Figure	Multiplier		Corrected Figure
Cooling kW	(refer to Performance Data – Capacity Data)	326	x 0.97	20% Ethylene Glycol =	316.2 kW
Input kW	(refer to Performance Data – Capacity Data)	105.6	x 0.98		103.5 kW
Flow l/s	calculated $\frac{\text{DX (Mechanical Cooling kW)}}{\Delta T \times 4.19}$	15.56 l/s	x 1.02		15.87 l/s
Pressure Drop kPa	(refer to Waterside Pressure Drops)	TBA kPa	x 1.20		TBA kPa

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 intensity meter in accordance with BS EN ISO9614 Part 1:2009. 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 intensity according to BS EN ISO9614 Part 1: 2009.

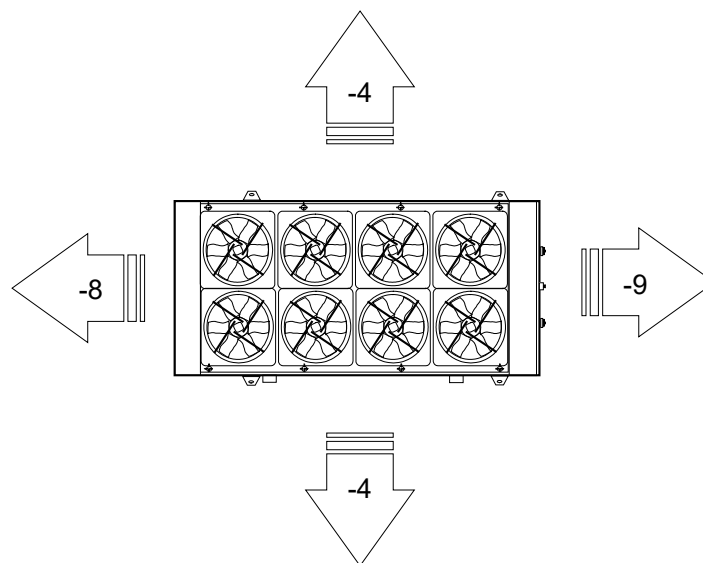
Sound Pressure Levels are calculated from sound power using the expanded parallelepiped method according to BS EN ISO 11203: 2009

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 unit, rather they represent the total sound level radiating from the unit in all directions in the horizontal plane from source.

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

Base Correction Values - Global dB

Technical Data DCC**Cooling Performance DCC R Type**

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCC011SR-04AK00	5	115.7	26.2	110.1	29.0	104.1	32.1	97.6	35.5
	6	119.4	26.2	113.7	29.1	107.4	32.3	100.7	35.6
	7	123.1	26.3	117.2	29.2	110.8	32.4	103.9	35.8
	8	126.9	26.4	120.9	29.3	114.3	32.5	107.2	36.0
	9	130.8	26.4	124.6	29.4	117.8	32.7	110.5	36.1
	10	134.8	26.4	128.4	29.5	121.5	32.8	113.9	36.3
DCC014SR-04AL00	5	139.7	32.4	132.9	35.8	125.5	39.5	117.5	43.6
	6	144.1	32.5	137.1	36.0	129.5	39.7	121.2	43.8
	7	148.6	32.7	141.4	36.2	133.6	39.9	125.1	44.1
	8	153.2	32.8	145.8	36.3	137.7	40.1	129.0	44.3
	9	157.8	32.9	150.3	36.5	142.0	40.3	133.0	44.5
	10	162.5	33.1	154.8	36.7	146.3	40.5	137.0	44.8
DCC017SR-04AM00	5	173.2	43.7	164.8	47.9	155.6	52.5	145.6	57.5
	6	178.7	44.0	170.0	48.3	160.5	52.9	150.3	57.9
	7	184.3	44.2	175.3	48.6	165.5	53.2	154.7	58.2
	8	189.9	44.5	180.8	48.9	170.7	53.6	159.9	58.7
	9	195.7	44.7	186.3	49.2	175.9	53.9	164.8	59.1
	10	201.6	44.9	191.9	49.4	181.3	54.3	169.8	59.5
DCC021SR-04BS00	5	203.7	52.2	193.5	57.4	182.6	63.2	170.8	69.7
	6	210.0	52.5	199.6	57.8	188.4	63.7	176.2	70.1
	7	216.4	52.8	205.7	58.2	194.2	64.1	181.7	70.6
	8	223.0	53.2	212.0	58.5	200.2	64.5	187.3	71.0
	9	229.3	53.4	218.4	58.9	206.2	64.9	193.0	71.5
	10	236.1	53.7	224.9	59.3	212.4	65.3	198.9	71.9
DCC023SR-04BT00	5	250.9	71.7	238.6	78.3	224.0	85.2	208.1	92.7
	6	258.7	72.3	246.1	78.9	230.7	85.8	214.4	93.4
	7	266.7	72.9	253.3	79.5	237.5	86.4	220.7	94.0
	8	274.8	73.4	260.7	80.0	244.4	87.0	227.2	94.6
	9	283.0	73.9	268.2	80.5	251.5	87.6	233.7	95.3
	10	291.4	74.5	275.8	81.0	258.6	88.2	240.4	95.9
DCC024SR-06BT00	5	259.2	66.7	246.3	73.0	232.2	80.0	217.0	87.6
	6	267.3	67.1	254.1	73.5	239.5	80.5	223.9	88.2
	7	275.7	67.5	262.0	74.0	247.0	81.1	231.0	88.8
	8	284.1	67.8	270.1	74.5	254.7	81.6	238.2	89.4
	9	292.7	68.2	278.3	74.9	262.5	82.1	245.5	90.0
	10	301.4	68.5	286.6	75.3	270.4	82.7	252.7	90.5

- 1 Output kW refers to the chilled water duty.
- 2 Input kW refers to the unit input power (compressor + fans).
- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp x ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data DCC

Cooling Performance DCC R Type

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCC011DR-04ACC0	5	116.8	26.1	111.1	28.9	105.0	32.0	98.4	35.4
	6	120.5	26.1	114.7	29.0	108.4	32.2	101.6	35.6
	7	124.3	26.2	118.3	29.1	111.9	32.3	104.8	35.7
	8	128.1	26.2	122.0	29.2	115.4	32.4	108.2	35.9
	9	132.0	26.2	125.8	29.3	118.9	32.6	111.5	36.0
	10	136.0	26.3	129.6	29.4	122.6	32.7	115.0	36.2
DCC013DR-04ACD0	5	129.6	29.1	123.3	32.3	116.5	35.7	109.1	39.4
	6	133.7	29.2	127.3	32.4	120.2	35.9	112.6	39.6
	7	137.9	29.3	131.3	32.6	124.0	36.0	116.2	39.8
	8	142.2	29.4	135.4	32.7	127.9	36.2	119.8	40.0
	9	146.5	29.5	139.5	32.8	131.8	36.4	123.5	40.2
	10	150.9	29.6	143.7	32.9	135.9	36.5	127.3	40.4
DCC014DR-04ADD0	5	140.3	32.2	133.6	35.6	126.2	39.3	118.2	43.3
	6	144.8	32.3	137.8	35.8	130.2	39.5	121.9	43.6
	7	149.3	32.5	142.1	35.9	134.3	39.7	125.8	43.8
	8	153.9	32.6	146.5	36.1	138.5	39.9	129.7	44.1
	9	158.6	32.7	151.0	36.3	142.7	40.1	133.7	44.3
	10	163.3	32.9	155.6	36.4	147.0	40.3	137.8	44.5
DCC015DR-04ADF0	5	157.6	38.1	149.9	41.9	141.5	46.0	132.4	50.5
	6	162.6	38.3	154.7	42.1	146.0	46.3	136.7	50.9
	7	167.7	38.4	159.5	42.3	150.6	46.6	141.0	51.2
	8	172.8	38.6	164.5	42.6	155.3	46.8	145.3	51.4
	9	178.1	38.8	169.5	42.8	160.1	47.1	149.9	51.8
	10	183.5	39.0	174.6	43.0	164.9	47.4	154.5	52.1
DCC016DR-04AJJ0	5	168.4	40.7	160.1	45.0	150.9	49.7	140.9	54.8
	6	173.7	40.9	165.2	45.2	155.7	50.0	145.4	55.1
	7	179.1	41.0	170.4	45.4	160.6	50.2	150.1	55.4
	8	184.7	41.2	175.7	45.6	165.7	50.5	154.8	55.7
	9	190.3	41.3	181.1	45.8	170.8	50.7	159.7	55.9
	10	196.1	41.5	186.6	46.0	176.1	50.9	164.6	56.2
DCC018DR-04BJK0	5	194.0	49.7	184.5	54.8	174.1	60.5	162.8	66.6
	6	200.0	50.0	190.3	55.2	179.6	60.8	168.0	67.0
	7	206.2	50.2	196.3	55.5	185.2	61.2	173.2	67.4
	8	212.5	50.5	202.3	55.8	190.9	61.5	178.5	67.7
	9	218.9	50.7	208.4	56.1	196.8	61.9	183.8	68.0
	10	225.4	50.9	214.7	56.4	202.7	62.2	189.3	68.4

- 1 Output kW refers to the chilled water duty.
- 2 Input kW refers to the unit input power (compressor + fans).
- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data DCC

Cooling Performance DCC R Type

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCC019DR-04AFK0	5	200.3	51.5	190.5	56.6	179.7	62.2	168.0	68.3
	6	206.7	51.8	196.6	57.0	185.4	62.6	173.2	68.7
	7	213.1	52.1	202.7	57.3	191.3	63.0	178.6	69.1
	8	219.7	52.4	209.0	57.7	197.2	63.4	184.2	69.6
	9	226.3	52.7	215.4	58.0	203.2	63.8	189.8	70.0
	10	233.1	52.9	221.9	58.4	209.4	64.2	195.4	70.3
DCC020DR-06AFK0	5	206.2	48.1	196.0	53.1	185.0	58.5	173.1	64.4
	6	212.7	48.3	202.3	53.4	191.0	58.8	178.7	64.7
	7	219.4	48.5	208.7	53.6	197.0	59.1	184.4	65.1
	8	226.2	48.6	215.2	53.8	203.2	59.4	190.3	65.4
	9	233.2	48.8	221.9	54.1	209.5	59.7	196.2	65.8
	10	240.2	48.9	228.6	54.3	215.9	60.0	202.3	66.1
DCC021DR-04AKK0	5	223.4	58.9	212.6	64.9	200.6	71.5	187.7	78.7
	6	230.4	59.3	219.3	65.3	207.0	71.9	193.6	79.1
	7	237.6	59.7	226.2	65.8	213.5	72.4	199.4	79.6
	8	244.8	60.0	233.1	66.2	220.1	72.9	205.4	80.0
	9	252.2	60.3	240.2	66.6	226.8	73.4	211.5	80.4
	10	259.7	60.6	247.4	67.0	233.6	73.8	217.6	80.8
DCC022DR-06AKK0	5	230.3	54.8	219.1	60.6	206.8	66.9	193.5	73.8
	6	237.6	55.0	226.1	60.9	213.4	67.2	199.7	74.2
	7	245.0	55.2	233.2	61.1	220.1	67.6	206.0	74.6
	8	252.5	55.4	240.4	61.4	227.0	67.9	212.5	75.0
	9	260.2	55.5	247.7	61.7	234.0	68.3	219.1	75.3
	10	268.0	55.7	255.2	61.9	241.1	68.6	225.7	75.7
DCC024DR-04BKL0	5	245.6	66.3	233.4	72.8	219.3	79.8	204.3	87.6
	6	253.2	66.8	240.5	73.3	226.0	80.4	210.5	88.1
	7	261.0	67.2	247.7	73.7	232.9	80.9	216.8	88.7
	8	268.9	67.7	255.0	74.2	239.8	81.4	223.1	89.2
	9	276.7	68.1	262.5	74.7	246.8	82.0	229.6	89.7
	10	284.7	68.4	270.0	75.1	253.9	82.5	236.1	90.2
DCC025DR-06BKL0	5	253.5	61.4	241.1	67.8	227.4	74.7	212.7	82.4
	6	261.5	61.7	248.7	68.1	234.6	75.2	219.3	82.8
	7	269.5	62.0	256.4	68.5	241.9	75.6	226.2	83.3
	8	277.7	62.3	264.3	68.9	249.4	76.0	233.3	83.8
	9	286.1	62.5	272.3	69.2	257.0	76.5	240.4	84.3
	10	294.6	62.8	280.4	69.6	264.6	76.8	247.8	84.8

- 1 Output kW refers to the chilled water duty.
- 2 Input kW refers to the unit input power (compressor + fans).
- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data DCC

Cooling Performance DCC R Type

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCC027DR-04BLL0	5	265.4	73.6	251.9	80.5	236.1	88.1	219.3	96.4
	6	273.5	74.1	259.4	81.1	243.1	88.7	225.8	97.0
	7	281.9	74.7	267.0	81.6	250.2	89.2	232.4	97.6
	8	290.3	75.2	274.6	82.1	257.4	89.8	239.1	98.3
	9	298.6	75.7	282.4	82.7	264.7	90.4	245.9	98.9
	10	307.0	76.1	290.3	83.2	272.1	91.0	252.8	99.5
DCC028DR-06BLL0	5	274.1	67.9	260.7	74.9	246.0	82.5	230.0	90.9
	6	282.6	68.3	268.9	75.3	253.7	83.0	237.1	91.4
	7	291.3	68.7	277.2	75.8	261.6	83.5	244.5	92.0
	8	300.1	69.1	285.6	76.2	269.6	84.0	252.1	92.5
	9	309.1	69.5	294.2	76.7	277.8	84.5	259.8	93.1
	10	318.2	69.8	303.0	77.1	285.8	85.0	267.7	93.7
DCC030DR-06BLM0	5	307.3	80.0	292.4	87.8	275.9	96.3	258.1	105.6
	6	316.9	80.5	301.5	88.4	284.6	97.0	266.4	106.4
	7	326.6	81.0	310.9	89.0	293.3	97.6	274.4	107.0
	8	336.6	81.6	320.4	89.6	302.3	98.3	282.8	107.7
	9	346.7	82.1	330.0	90.2	311.5	99.0	291.2	108.4
	10	357.0	82.5	339.9	90.7	321.0	99.7	299.8	109.0
DCC031DR-08BLM0	5	313.9	76.1	298.6	83.8	281.8	92.0	263.8	101.1
	6	323.8	76.5	308.0	84.2	290.8	92.6	272.2	101.8
	7	333.8	76.9	317.6	84.7	299.9	93.2	280.8	102.4
	8	344.0	77.3	327.4	85.2	309.1	93.7	289.5	103.0
	9	354.4	77.7	337.3	85.7	318.6	94.3	298.4	103.6
	10	365.0	78.0	347.5	86.1	328.2	94.8	307.5	104.3
DCC032DR-06BMM0	5	337.4	91.9	321.2	100.5	303.3	109.9	284.1	120.3
	6	347.9	92.6	331.2	101.3	312.8	110.8	293.1	121.2
	7	358.6	93.2	341.5	102.0	322.5	111.6	301.9	121.9
	8	369.6	93.9	351.9	102.8	332.4	112.4	310.8	122.7
	9	380.7	94.5	362.5	103.5	342.5	113.3	319.9	123.4
	10	392.0	95.1	373.4	104.2	352.8	114.1	329.2	124.2
DCC033DR-08BMM0	5	345.1	87.4	328.3	95.8	310.0	104.9	290.2	114.9
	6	355.9	87.9	338.7	96.4	319.8	105.6	299.5	115.7
	7	367.0	88.4	349.2	97.0	329.7	106.3	308.8	116.5
	8	378.2	88.9	359.9	97.6	339.9	107.0	318.5	117.3
	9	389.6	89.3	370.8	98.2	350.3	107.7	328.2	118.0
	10	401.2	89.8	382.0	98.8	360.8	108.4	338.2	118.8

- 1 Output kW refers to the chilled water duty.
- 2 Input kW refers to the unit input power (compressor + fans).
- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data DCC

Cooling Performance DCC R Type

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCC036DR-06BMS0	5	371.4	101.5	352.7	111.1	331.5	121.4	308.9	132.9
	6	382.9	102.3	363.5	111.8	341.7	122.3	318.3	133.7
	7	394.6	103.0	374.5	112.6	352.0	123.2	327.7	134.6
	8	406.6	103.7	385.6	113.4	362.5	124.1	337.3	135.4
	9	418.5	104.4	396.9	114.2	373.1	124.9	347.1	136.3
	10	430.5	105.0	408.3	114.9	383.8	125.7	357.0	137.2
DCC038DR-10BMS0	5	386.2	92.5	367.2	101.9	346.5	112.1	324.1	123.2
	6	398.4	93.0	378.8	102.5	357.5	112.7	334.5	124.0
	7	410.7	93.4	390.7	103.0	368.7	113.4	345.0	124.7
	8	423.3	93.9	402.7	103.6	380.1	114.1	355.8	125.5
	9	436.2	94.3	415.0	104.1	391.8	114.7	366.8	126.2
	10	449.2	94.7	427.5	104.7	403.6	115.4	377.9	126.9
DCC039DR-06BSS0	5	398.3	110.7	377.9	121.1	354.1	132.5	328.7	145.0
	6	410.6	111.5	389.1	121.9	364.6	133.3	338.5	145.9
	7	423.1	112.3	400.5	122.7	375.3	134.2	348.4	146.8
	8	435.7	113.1	412.0	123.5	386.1	135.1	358.5	147.8
	9	448.1	113.8	423.7	124.3	397.0	136.0	368.7	148.7
	10	460.7	114.5	435.6	125.1	408.1	136.9	379.1	149.7
DCC042DR-10BSS0	5	414.5	100.3	394.3	110.7	372.0	122.0	347.8	134.6
	6	427.4	100.9	406.6	111.3	383.7	122.8	358.9	135.4
	7	440.6	101.4	419.2	111.9	395.7	123.5	370.1	136.1
	8	454.0	101.9	432.0	112.5	407.8	124.2	381.6	136.9
	9	467.7	102.4	445.1	113.2	420.2	124.9	393.2	137.7
	10	481.6	102.9	458.4	113.8	432.8	125.6	405.1	138.5
DCC043DR-08BST0	5	455.4	123.9	433.0	135.8	407.3	148.5	379.5	162.4
	6	469.5	124.8	446.4	136.7	419.8	149.5	391.2	163.5
	7	483.9	125.7	459.9	137.7	432.5	150.5	403.1	164.6
	8	498.6	126.6	473.6	138.6	445.4	151.5	415.2	165.7
	9	513.5	127.4	487.6	139.5	458.5	152.6	427.6	166.8
	10	528.7	128.3	501.7	140.4	471.9	153.6	440.1	167.9
DCC045DR-10BST0	5	463.5	119.0	440.6	130.6	415.2	143.3	388.2	157.3
	6	478.0	119.7	454.2	131.4	428.4	144.3	400.6	158.4
	7	492.7	120.4	468.3	132.2	441.8	145.2	413.1	159.4
	8	507.4	121.0	482.7	133.1	455.4	146.2	426.0	160.5
	9	522.7	121.7	497.3	133.9	469.3	147.2	439.1	161.6
	10	538.3	122.4	512.2	134.7	483.4	148.1	452.5	162.6

- 1 Output kW refers to the chilled water duty.
- 2 Input kW refers to the unit input power (compressor + fans).
- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data DCC

Cooling Performance DCC R Type

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCC046DR-08BTT0	5	498.4	143.2	474.1	156.4	445.3	170.2	413.9	185.2
	6	513.9	144.4	488.9	157.6	458.7	171.4	426.3	186.5
	7	529.7	145.5	503.5	158.7	472.2	172.6	439.0	187.7
	8	545.7	146.5	518.2	159.8	485.9	173.7	451.8	189.0
	9	562.1	147.6	533.1	160.8	499.9	174.9	464.8	190.3
	10	578.7	148.7	548.2	161.9	514.1	176.1	478.1	191.5
DCC048DR-10BTT0	5	507.8	137.4	482.6	150.2	454.8	164.3	425.4	179.9
	6	523.6	138.3	497.3	151.2	469.2	165.5	438.8	181.2
	7	539.7	139.2	512.8	152.3	483.8	166.7	452.6	182.5
	8	555.4	139.9	528.5	153.4	498.7	167.9	466.7	183.8
	9	572.2	140.8	544.6	154.4	513.9	169.1	481.0	185.1
	10	589.3	141.7	560.9	155.5	529.4	170.3	495.7	186.4
DCC051DR-08BVV0	5	562.5	163.7	530.1	179.5	494.4	197.9	456.1	218.4
	6	579.1	164.9	545.7	180.8	508.9	199.1	469.5	219.7
	7	595.9	166.1	561.5	182.0	523.7	200.4	483.2	220.9
	8	613.0	167.3	577.5	183.3	538.6	201.7	497.1	222.2
	9	630.3	168.6	593.8	184.6	553.8	203.0	511.2	223.5
	10	647.8	169.9	610.3	185.9	569.3	204.4	525.6	224.8
DCC011SX-04AK00	5	115.7	26.2	110.1	29.0	104.0	32.1	97.3	35.4
	6	119.4	26.2	113.7	29.1	107.3	32.2	100.3	35.5
	7	123.1	26.3	117.2	29.2	110.6	32.3	103.5	35.7
	8	126.9	26.4	120.9	29.3	114.0	32.5	106.6	35.8
	9	130.8	26.4	124.5	29.4	117.4	32.6	109.9	36.0
	10	134.8	26.4	128.2	29.5	121.0	32.7	113.2	36.1
DCC014SX-04AL00	5	139.3	32.3	132.1	35.6	124.3	39.3	115.9	43.3
	6	143.6	32.4	136.2	35.8	128.1	39.5	119.5	43.6
	7	148.0	32.6	140.3	36.0	132.0	39.7	123.2	43.8
	8	152.4	32.7	144.5	36.2	136.0	39.9	126.9	44.0
	9	156.9	32.8	148.8	36.3	140.0	40.1	130.6	44.3
	10	161.5	33.0	153.1	36.5	144.1	40.3	134.5	44.5
DCC017SX-04AM00	5	170.8	43.6	161.6	47.8	151.7	52.3	141.2	57.2
	6	176.0	43.9	166.4	48.1	156.3	52.7	145.5	57.6
	7	181.3	44.1	171.4	48.4	160.9	53.0	149.8	58.0
	8	186.6	44.4	176.5	48.7	165.7	53.4	154.2	58.5
	9	192.0	44.7	181.6	49.1	170.5	53.8	158.7	58.9
	10	197.5	44.9	186.8	49.4	175.3	54.2	163.2	59.3

- 1 Output kW refers to the chilled water duty.
- 2 Input kW refers to the unit input power (compressor + fans).
- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data DCC**Cooling Performance DCC X type**

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCC021SX-06BS00	5	208.9	48.6	198.0	53.6	186.2	59.1	173.7	65.2
	6	215.3	48.8	204.1	53.9	192.0	59.4	179.0	65.5
	7	221.9	49.0	210.3	54.1	197.8	59.7	184.5	65.8
	8	228.5	49.2	216.6	54.4	203.7	60.0	190.0	66.2
	9	235.2	49.4	222.9	54.6	209.7	60.3	195.6	66.5
	10	242.0	49.6	229.4	54.9	215.8	60.6	201.3	66.9
DCC023SX-04BT00	5	238.3	73.0	223.6	79.7	208.0	87.1	191.7	95.2
	6	245.0	73.7	229.9	80.5	213.9	87.9	195.9	96.5
	7	251.9	74.4	236.3	81.3	219.8	88.7	202.5	96.9
	8	258.8	75.1	242.7	82.1	225.8	89.6	208.0	97.8
	9	265.8	75.9	249.2	82.9	231.8	90.4	213.6	98.7
	10	272.8	76.6	255.8	83.7	237.9	91.3	219.3	99.6
DCC024SX-06BT00	5	255.4	66.5	241.2	72.8	226.1	79.6	210.1	87.2
	6	263.1	66.9	248.5	73.3	232.9	80.2	216.4	87.8
	7	270.9	67.3	255.9	73.8	239.8	80.8	222.9	88.4
	8	278.9	67.7	263.4	74.3	246.8	81.4	229.4	89.0
	9	286.9	68.1	271.0	74.8	254.0	81.9	236.0	89.7
	10	295.1	68.5	278.7	75.3	261.2	82.5	242.8	90.3
DCC011DX-04ACC0	5	116.8	26.1	111.1	28.9	104.9	32.0	98.1	35.3
	6	120.5	26.1	114.7	29.0	108.2	32.1	101.2	35.4
	7	124.3	26.2	118.3	29.1	111.6	32.2	104.4	35.6
	8	128.1	26.2	121.9	29.2	115.0	32.4	107.6	35.7
	9	132.0	26.2	125.6	29.3	118.5	32.5	110.9	35.9
	10	136.0	26.3	129.4	29.3	122.0	32.6	114.2	36.0
DCC013DX-04ACD0	5	129.4	29.1	122.9	32.2	115.8	35.6	108.1	39.2
	6	133.5	29.2	126.8	32.4	119.4	35.7	111.5	39.4
	7	137.6	29.3	130.7	32.5	123.1	35.9	114.9	39.6
	8	141.8	29.4	134.7	32.6	126.8	36.1	118.4	39.8
	9	146.1	29.5	138.7	32.7	130.6	36.2	122.0	40.0
	10	150.4	29.5	142.8	32.8	134.5	36.4	125.6	40.2
DCC014DX-04ADD0	5	140.0	32.1	132.7	35.4	124.9	39.1	116.6	43.1
	6	144.3	32.3	136.9	35.6	128.8	39.3	120.2	43.3
	7	148.7	32.4	141.0	35.8	132.7	39.5	123.9	43.5
	8	153.2	32.5	145.3	36.0	136.7	39.7	127.6	43.8
	9	157.7	32.6	149.6	36.1	140.8	39.9	131.4	44.0
	10	162.3	32.8	153.9	36.3	144.9	40.1	135.3	44.2

- 1 Output kW refers to the chilled water duty.
- 2 Input kW refers to the unit input power (compressor + fans).
- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp x ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data DCC

Cooling Performance DCC X type

Technical

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCC015DX-04ADF0	5	156.2	37.9	147.8	41.7	138.9	45.8	129.4	50.3
	6	161.0	38.1	152.4	41.9	143.2	46.1	133.4	50.6
	7	165.8	38.4	157.0	42.2	147.5	46.4	137.4	50.9
	8	170.8	38.5	161.6	42.4	151.9	46.7	141.5	51.2
	9	175.8	38.7	166.4	42.7	156.3	47.0	145.6	51.6
	10	180.8	38.9	171.2	42.9	160.8	47.2	149.9	51.9
DCC016DX-04AJJ0	5	166.2	40.6	157.1	44.9	147.2	49.5	136.7	54.5
	6	171.3	40.8	161.9	45.1	151.8	49.8	140.9	54.8
	7	176.5	40.9	166.8	45.3	156.3	50.1	145.2	55.1
	8	181.7	41.1	171.8	45.6	161.0	50.3	149.6	55.4
	9	187.1	41.3	176.8	45.8	165.8	50.6	154.0	55.7
	10	192.5	41.5	181.9	46.0	170.6	50.9	158.5	56.0
DCC018DX-04BJK0	5	189.3	49.9	178.6	55.1	167.0	60.7	154.8	66.8
	6	194.9	50.3	183.8	55.5	172.0	61.1	159.4	67.3
	7	200.6	50.6	189.2	55.8	177.0	61.5	164.0	67.7
	8	206.4	50.9	194.6	56.2	182.1	62.0	168.7	68.2
	9	212.2	51.2	200.2	56.6	187.2	62.4	173.5	68.6
	10	218.2	51.5	205.8	57.0	192.5	62.8	178.4	69.1
DCC019DX-04AFK0	5	195.1	51.8	183.9	56.9	172.0	62.4	159.4	68.5
	6	200.9	52.1	189.4	57.3	177.1	62.9	164.1	69.0
	7	206.8	52.5	194.9	57.7	182.3	63.4	168.9	69.6
	8	212.8	52.9	200.6	58.2	187.5	63.9	173.7	70.1
	9	218.8	53.2	206.2	58.6	192.8	64.4	178.7	70.6
	10	225.0	53.6	212.0	59.0	198.2	64.8	183.7	71.1
DCC020DX-06AFK0	5	205.3	48.0	194.7	53.0	183.2	58.3	170.8	64.0
	6	211.8	48.2	200.8	53.2	188.9	58.6	176.2	64.4
	7	218.3	48.4	207.0	53.5	194.7	58.9	181.6	64.7
	8	225.0	48.5	213.3	53.7	200.6	59.2	187.1	65.1
	9	231.7	48.7	219.6	53.9	206.6	59.5	192.8	65.4
	10	238.6	48.8	226.1	54.1	212.7	59.8	198.5	65.8
DCC021DX-04AKK0	5	215.7	59.6	203.0	65.6	189.5	72.2	175.1	79.4
	6	222.0	60.1	208.9	66.1	195.0	72.8	180.2	80.0
	7	228.4	60.5	214.9	66.7	200.6	73.4	185.4	80.6
	8	234.9	61.0	221.0	67.2	206.2	73.9	190.6	81.3
	9	241.4	61.4	227.1	67.7	211.9	74.5	195.9	81.9
	10	248.0	61.9	233.3	68.3	217.7	75.1	201.2	82.5

- 1 Output kW refers to the chilled water duty.
- 2 Input kW refers to the unit input power (compressor + fans).
- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data DCC

Cooling Performance DCC X type

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCC022DX-06AKK0	5	228.6	54.6	216.5	60.3	203.4	66.5	189.5	73.3
	6	235.6	54.8	223.1	60.6	209.7	66.9	195.3	73.7
	7	242.8	55.0	229.9	60.9	216.0	67.2	201.2	74.1
	8	250.0	55.2	236.8	61.2	222.5	67.6	207.3	74.5
	9	257.4	55.4	243.7	61.5	229.1	67.9	213.4	74.9
	10	264.8	55.6	250.8	61.7	235.7	68.3	219.6	75.3
DCC024DX-06BKL0	5	250.2	61.2	236.6	67.6	221.9	74.5	206.3	82.1
	6	257.8	61.6	243.7	68.0	228.6	75.0	212.5	82.6
	7	265.4	61.9	250.9	68.4	235.4	75.4	218.8	83.1
	8	273.2	62.2	258.3	68.8	242.3	75.9	225.2	83.6
	9	281.1	62.5	265.7	69.2	249.3	76.3	231.8	84.1
	10	289.1	62.8	273.3	69.6	256.4	76.8	238.4	84.6
DCC025DX-08BKL0	5	257.8	58.5	244.8	64.8	230.5	71.5	215.1	78.8
	6	265.9	58.7	252.4	65.0	237.7	71.8	221.9	79.2
	7	274.0	58.9	260.2	65.3	245.0	72.1	228.7	79.6
	8	282.4	59.1	268.0	65.6	252.4	72.5	235.6	79.9
	9	290.8	59.3	276.0	65.8	259.9	72.8	242.7	80.3
	10	299.4	59.4	284.1	66.0	267.6	73.1	249.9	80.7
DCC027DX-06BLL0	5	269.3	67.8	254.4	74.8	238.4	82.4	221.4	90.7
	6	277.3	68.3	262.0	75.3	245.5	82.9	228.0	91.3
	7	285.5	68.7	269.7	75.8	252.7	83.5	234.7	91.9
	8	293.8	69.1	277.5	76.3	260.0	84.1	241.5	92.6
	9	302.1	69.6	285.4	76.8	267.4	84.6	248.4	93.2
	10	310.6	70.0	293.4	77.3	274.9	85.2	255.3	93.8
DCC028DX-08BLL0	5	278.7	64.6	264.2	71.3	248.5	78.6	231.8	86.7
	6	287.2	64.9	272.3	71.6	256.2	79.0	239.0	87.1
	7	295.9	65.2	280.5	72.0	264.0	79.4	246.2	87.6
	8	304.7	65.4	288.9	72.3	271.9	79.8	253.6	88.0
	9	313.7	65.7	297.4	72.7	279.9	80.2	261.1	88.5
	10	322.8	65.9	306.1	73.0	288.0	80.6	268.8	89.0
DCC030DX-06BLM0	5	298.9	80.4	281.9	88.1	263.7	96.7	244.4	106.1
	6	307.7	81.0	290.1	88.8	271.4	97.4	251.6	106.9
	7	316.6	81.6	298.5	89.6	279.2	98.2	258.8	107.7
	8	325.6	82.2	307.0	90.3	287.1	99.0	266.1	108.5
	9	334.7	82.8	315.6	91.0	295.1	99.8	273.6	109.4
	10	344.0	83.5	324.2	91.7	303.3	100.6	280.7	110.3

- 1 Output kW refers to the chilled water duty.
- 2 Input kW refers to the unit input power (compressor + fans).
- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data DCC

Cooling Performance DCC X type

Technical

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCC031DX-08BLM0	5	311.1	75.9	294.5	83.4	276.7	91.6	257.8	100.6
	6	320.6	76.3	303.5	83.9	285.1	92.2	265.6	101.2
	7	330.2	76.7	312.6	84.4	293.7	92.8	273.6	101.9
	8	339.9	77.1	321.8	84.9	302.4	93.3	281.7	102.5
	9	349.8	77.5	331.2	85.4	311.2	93.9	289.9	103.1
	10	359.9	77.9	340.7	85.9	320.1	94.5	298.3	103.8
DCC032DX-06BMM0	5	325.6	92.7	306.7	101.4	286.7	110.8	265.5	121.2
	6	335.1	93.5	315.6	102.3	294.9	111.8	273.1	122.2
	7	344.6	94.3	324.5	103.2	303.2	112.8	280.8	123.2
	8	354.3	95.1	333.6	104.1	311.7	113.8	288.7	124.3
	9	364.1	95.9	342.8	105.0	320.3	114.8	296.6	125.3
	10	374.0	96.7	352.1	105.9	328.9	115.8	303.8	126.7
DCC033DX-08BMM0	5	340.4	87.2	322.0	95.5	302.3	104.5	281.5	114.4
	6	350.6	87.7	331.7	96.1	311.4	105.2	290.0	115.2
	7	361.1	88.2	341.5	96.8	320.7	106.0	298.6	116.0
	8	371.6	88.7	351.5	97.4	330.0	106.7	307.3	116.8
	9	382.4	89.3	361.6	98.0	339.6	107.5	316.2	117.6
	10	393.2	89.8	371.9	98.7	349.2	108.2	325.2	118.5
DCC036DX-08BMS0	5	372.2	96.1	351.2	105.6	328.8	116.0	305.1	127.3
	6	383.3	96.8	361.7	106.4	338.6	116.8	314.2	128.2
	7	394.5	97.5	372.2	107.2	348.5	117.7	323.4	129.2
	8	405.9	98.1	383.0	107.9	358.6	118.6	332.7	130.1
	9	417.4	98.7	393.9	108.7	368.7	119.4	342.2	131.1
	10	429.1	99.4	404.9	109.5	379.1	120.3	351.5	132.1
DCC038DX-10BMS0	5	382.8	92.4	362.2	101.5	340.3	111.6	316.9	122.6
	6	394.4	92.8	373.3	102.1	350.7	112.3	326.6	123.3
	7	406.3	93.3	384.5	102.7	361.2	112.9	336.4	124.1
	8	418.3	93.8	395.9	103.3	371.9	113.6	346.4	124.8
	9	430.5	94.2	407.5	103.9	382.8	114.3	356.6	125.6
	10	442.9	94.7	419.2	104.5	393.9	115.0	366.6	126.4
DCC039DX-08BSS0	5	397.1	104.8	374.4	115.4	350.0	127.0	324.1	139.8
	6	408.8	105.5	385.3	116.3	360.2	128.0	333.6	140.9
	7	420.6	106.3	396.4	117.1	370.6	128.9	343.2	141.9
	8	432.5	107.1	407.7	118.0	381.1	129.9	352.9	142.9
	9	444.7	107.9	419.1	118.9	391.8	130.9	362.8	144.0
	10	456.9	108.7	430.6	119.8	402.5	131.9	372.8	145.0

- 1 Output kW refers to the chilled water duty.
- 2 Input kW refers to the unit input power (compressor + fans).
- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data DCC

Cooling Performance DCC X type

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCC042DX-12BSS0	5	418.3	97.2	396.4	107.2	372.9	118.2	347.7	130.3
	6	431.1	97.6	408.6	107.8	384.3	118.8	358.4	131.0
	7	444.2	98.0	421.0	108.3	396.0	119.5	369.3	131.7
	8	457.4	98.4	433.6	108.8	407.9	120.1	380.4	132.4
	9	470.9	98.8	446.3	109.3	419.9	120.7	391.6	133.1
	10	484.5	99.2	459.3	109.8	432.1	121.3	403.1	133.8
DCC043DX-08BST0	5	437.4	125.4	411.3	137.4	383.5	150.6	354.1	165.1
	6	450.1	126.5	423.1	138.6	394.4	151.9	364.2	166.5
	7	462.8	127.6	435.1	139.8	405.6	153.2	374.5	167.8
	8	475.8	128.7	447.2	141.1	415.3	155.1	384.9	169.2
	9	488.8	129.8	459.4	142.3	428.2	155.9	395.5	170.6
	10	502.0	130.9	471.8	143.6	439.8	157.2	406.1	172.1
DCC045DX-12BST0	5	465.2	115.0	440.0	126.4	413.0	138.7	384.3	152.3
	6	479.3	115.7	453.4	127.1	425.6	139.6	396.0	153.3
	7	493.7	116.3	467.0	127.9	438.4	140.5	407.9	154.2
	8	508.3	116.9	480.8	128.7	451.3	141.4	420.1	155.2
	9	523.1	117.5	494.8	129.4	464.5	142.3	432.4	156.2
	10	538.1	118.1	509.0	130.2	477.9	143.1	444.8	157.2
DCC046DX-10BTT0	5	494.0	137.7	465.5	150.6	435.2	164.7	403.3	180.2
	6	508.5	138.8	479.2	151.8	448.0	166.0	415.0	181.6
	7	523.3	139.8	493.0	153.0	460.9	167.4	427.0	183.0
	8	538.2	140.9	507.1	154.3	474.0	168.7	439.2	184.5
	9	553.4	142.0	521.3	155.5	487.3	170.1	451.5	186.0
	10	568.7	143.0	535.7	156.8	500.8	171.5	464.0	187.5
DCC048DX-12BTT0	5	507.4	132.7	479.4	145.3	449.5	159.0	417.8	174.1
	6	522.7	133.6	493.8	146.3	463.0	160.2	430.4	175.3
	7	538.3	134.4	508.5	147.3	476.8	161.3	443.2	176.6
	8	554.0	135.2	523.4	148.3	490.7	162.5	456.2	177.8
	9	570.0	136.0	538.5	149.3	504.9	163.6	469.3	179.1
	10	586.2	136.8	553.8	150.3	519.2	164.8	482.7	180.3
DCC051DX-10BVV0	5	551.5	158.7	517.1	175.9	480.2	195.1	440.7	216.6
	6	567.3	160.1	531.9	177.3	493.9	196.6	453.3	218.0
	7	583.3	161.5	546.9	178.7	507.8	198.1	466.0	219.5
	8	599.1	163.1	562.1	180.2	521.9	199.6	478.9	221.1
	9	616.0	164.5	577.5	181.7	535.5	201.4	492.1	222.6
	10	632.6	166.0	593.1	183.3	550.7	202.7	505.4	224.2

- 1 Output kW refers to the chilled water duty.
- 2 Input kW refers to the unit input power (compressor + fans).
- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data

Mechanical Data DCC R Type

	Notes	Units	DCC011SR-04AK00	DCC014SR-04AL00	DCC017SR-04AM00	DCC021SR-04BS00	DCC023SR-04BT00	DCC024SR-06BT00	DCC011DR-04ACC0	DCC013DR-04ACD0
Number of Refrigeration Circuits			1	1	1	1	1	1	2	2
Cooling Duty - EC Fans	(1)	kW	110.5	133.2	164.1	193.5	235.7	244.8	111.5	123.6
Nominal Input - Mechanical		kW	32.7	40.3	52.8	64.8	86.2	80.5	32.6	36.4
EER	(2)		3.38	3.30	3.11	2.99	2.74	3.04	3.42	3.40
ESEER	(3)		4.67	4.56	4.33	4.59	4.31	4.67	4.39	4.48
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	55-100	55-100	55-100	40-70-100	40-70-100	40-70-100	50-100	45-100
Minimum Turndown Ratio			0.54	0.54	0.55	0.38	0.39	0.38	0.50	0.46
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554	2645 x 2200 x 3690	2635 x 2200 x 2554	2635 x 2200 x 2554
Mass										
Machine	(6)	kg	1495	1515	1640	1690	1895	2345	1515	1530
Operating		kg	1520	1545	1670	1725	1940	2395	1540	1555
Construction - Material / Colour		kg	Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)							
Evaporator			Braze Plate							
Insulation			Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Water Volume (Total Internal)		l	8.6	11.0	13.2	20.3	25.7	25.7	9.2	11.2
Maximum Waterflow		l/s	7.3	9.2	10.7	13.1	14.2	15.9	7.4	8.4
Condenser			Epoxy Coated Aluminium Microchannel & Aluminium Fins							
Face Area (Total)		m ²	9.5	9.5	9.5	9.5	9.5	14.3	9.5	9.5
Nominal Airflow		m ³ /s	25.8	25.8	25.8	25.8	25.8	38.6	25.8	25.8
Condenser Fan & Motor			Sickle Bladed Fan							
Quantity			4	4	4	4	4	6	4	4
Diameter		mm	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1032	1032	1032	1032	1032	1032	1032	1032
Compressor			Tandem	Tandem	Tandem	Trio	Trio	Trio	Single + Single	Single + Single
Quantity of Compressors			2	2	2	3	3	3	2	2
Oil Charge Volume (Total)		l	2 x 6.7	2 x 6.7	2 x 7.2	3 x 6.7	3 x 7.2	3 x 7.2	1 x 6.7 + 1 x 6.7	1 x 6.7 + 1 x 6.7
Oil Type			Polyol Ester							
Refrigeration			Electronic Expansion Valve (EEV)							
Refrigerant Control			R410A							
Refrigerant Precharged Charge (Total)		kg	26.00	27.00	27.00	27.00	39.00	42.00	15 + 15	15 + 16
Connections			Grooved Terminations							
Water Inlet / Outlet - Unit			DN80	DN80	DN80	DN80	DN80	DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Water System										
Minimum System Water Volume		l	1035	1250	1550	1268	1571	1602	964	980
Maximum System Operating Pressure		Bar	10	10	10	10	10	10	10	10

(1) Based on units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water.

All performance data is supplied in accordance with BS EN 14511-1:2013

(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

Technical Data

Mechanical Data DCC R Type

	Notes	Units	DCC014DR-04ADD0	DCC015DR-04ADF0	DCC016DR-04AJU0	DCC018DR-04BJU0	DCC019DR-04AFK0	DCC020DR-06AFK0	DCC021DR-04AKK0	DCC022DR-06AKK0
Number of Refrigeration Circuits			2	2	2	2	2	2	2	2
Cooling Duty - EC Fans	(1)	kW	133.9	149.7	159.6	184.3	190.1	196.0	212.7	219.4
Nominal Input - Mechanical		kW	40.1	46.6	51.0	61.9	63.2	59.2	73.2	68.3
EER	(2)		3.34	3.21	3.13	2.97	3.01	3.31	2.91	3.21
ESEER	(3)		4.24	4.29	4.61	4.53	4.09	4.50	4.30	4.68
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	50-100	45-100	25-55-75-100	25-55-75-100	45-75-100	45-75-100	25-55-75-100	25-55-75-100
Minimum Turndown Ratio			0.50	0.45	0.27	0.24	0.44	0.44	0.27	0.27
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554	2645 x 2200 x 3690	2635 x 2200 x 2554	2645 x 2200 x 3690
Mass										
Machine	(6)	kg	1530	1600	1640	1740	1750	2215	1820	2285
Operating		kg	1560	1630	1670	1780	1785	2255	1855	2330
Construction - Material / Colour		kg	Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)							
Evaporator			Braze Plate							
Insulation			Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Water Volume (Total Internal)		l	11.2	13.2	13.2	18.0	18.8	18.8	18.8	18.8
Maximum Waterflow		l/s	9.2	10.0	10.4	11.9	11.6	12.9	13.0	14.4
Condenser			Epoxy Coated Aluminium Microchannel & Aluminium Fins							
Face Area (Total)		m ²	9.5	9.5	9.5	9.5	9.5	14.3	9.5	14.3
Nominal Airflow		m ³ /s	25.8	25.8	25.8	25.8	25.8	38.6	25.8	38.6
Condenser Fan & Motor			Sickle Bladed Fan							
Quantity			4	4	4	4	4	6	4	6
Diameter		mm	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1032	1032	1032	1032	1032	1032	1032	1032
Compressor			Single + Single	Single + Single	Tandem + Tandem	Tandem + Tandem	Single + Tandem	Single + Tandem	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			2	2	4	4	3	3	4	4
Oil Charge Volume (Total)		l	1 x 6.7 + 1 x 6.7	1 x 6.7 + 1 x 7.2	2 x 3.6 + 2 x 3.6	2 x 3.6 + 2 x 6.7	1 x 7.2 + 2 x 6.7	1 x 7.2 + 2 x 6.7	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7
Oil Type			Polyol Ester							
Refrigeration			Electronic Expansion Valve (EEV)							
Refrigerant Control			R410A							
Refrigerant Precharged										
Charge (Total)		kg	15 + 16	16 + 16	16 + 16	17 + 18	17 + 17	23 + 24	17 + 17	23 + 24
Connections			Grooved Terminations							
Water Inlet / Outlet - Unit			DN80	DN80	DN80	DN80	DN80	DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Water System										
Minimum System Water Volume		l	1157	1171	754	755	1448	1491	1006	1030
Maximum System Operating Pressure		Bar	10	10	10	10	10	10	10	10

(1) Based on units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water.

All performance data is supplied in accordance with BS EN 14511-1:2013

(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

Technical Data

Mechanical Data DCC R Type

	Notes	Units	DCC024DR-04BKL0	DCC025DR-06BKL0	DCC027DR-04BLL0	DCC028DR-06BLL0	DCC030DR-06BLM0	DCC031DR-08BLM0	DCC032DR-06BMM0	DCC033DR-08BMM0
Number of Refrigeration Circuits			2	2	2	2	2	2	2	2
Cooling Duty - EC Fans	(1)	kW	232.4	241.1	250.0	260.7	291.5	298.0	319.5	326.8
Nominal Input - Mechanical		kW	81.8	76.4	90.3	84.4	97.8	93.2	110.9	105.5
EER	(2)		2.84	3.16	2.77	3.09	2.98	3.20	2.88	3.10
ESEER	(3)		4.29	4.67	4.13	4.51	4.47	4.72	4.25	4.52
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		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	30-55-80-100	25-55-75-100	25-55-75-100	25-55-75-100	30-55-80-100	25-55-75-100
Minimum Turndown Ratio			0.25	0.25	0.28	0.27	0.25	0.24	0.28	0.27
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2645 x 2200 x 3690	2635 x 2200 x 2554	2645 x 2200 x 3690	2645 x 2200 x 3690	2645 x 2200 x 4820	2645 x 2200 x 3690	2645 x 2200 x 4820
Mass										
Machine	(6)	kg	1880	2350	1890	2360	2495	2900	2605	3010
Operating		kg	1935	2415	1945	2425	2565	2980	2680	3095
Construction - Material / Colour		kg	Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)							
Evaporator			Braze Plate							
Insulation			Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Water Volume (Total Internal)		l	26.1	26.1	26.1	26.1	30.6	30.6	30.6	30.6
Maximum Waterflow		l/s	14.4	16.2	15.7	17.8	18.2	19.9	19.3	21.2
Condenser			Epoxy Coated Aluminium Microchannel & Aluminium Fins							
Face Area (Total)		m ²	9.5	14.3	9.5	14.3	14.3	19.0	14.3	19.0
Nominal Airflow		m ³ /s	25.8	38.6	25.8	38.6	38.6	51.5	38.6	51.5
Condenser Fan & Motor			Sickle Bladed Fan							
Quantity			4	6	4	6	6	8	6	8
Diameter		mm	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1032	1032	1032	1032	1032	1032	1032	1032
Compressor			Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			4	4	4	4	4	4	4	4
Oil Charge Volume (Total)		l	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 7.2	2 x 6.7 + 2 x 7.2	2 x 7.2 + 2 x 7.2	2 x 7.2 + 2 x 7.2
Oil Type			Polyol Ester							
Refrigeration			Electronic Expansion Valve (EEV)							
Refrigerant Control			R410A							
Refrigerant Precharged Charge (Total)		kg	19 + 20	25 + 27	19 + 20	26 + 27	27 + 28	33 + 35	27 + 28	33 + 35
Connections			Grooved Terminations							
Water Inlet / Outlet - Unit			DN100	DN100	DN100	DN100	DN100	DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Water System										
Minimum System Water Volume		l	1011	1035	1200	1232	1239	1257	1519	1546
Maximum System Operating Pressure		Bar	10	10	10	10	10	10	10	10

(1) Based on units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water.

All performance data is supplied in accordance with BS EN 14511-1:2013

(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

Technical Data

Mechanical Data DCC R Type

	Notes	Units	DCC036DR-06BMS0	DCC038DR-10BMS0	DCC039DR-06BSS0	DCC042DR-10BSS0	DCC043DR-08BST0	DCC045DR-10BST0	DCC046DR-08BTT0	DCC048DR-10BTT0
Number of Refrigeration Circuits			2	2	2	2	2	2	2	2
Cooling Duty - EC Fans	(1)	kW	350.3	366.6	375.0	394.3	429.9	438.7	468.7	479.1
Nominal Input - Mechanical		kW	123.7	113.6	135.9	124.8	150.9	145.3	172.1	165.7
EER	(2)		2.83	3.23	2.76	3.16	2.85	3.02	2.72	2.89
ESEER	(3)		4.33	4.80	4.45	4.90	4.61	4.81	4.42	4.62
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	25-45-65-85-100	25-45-65-85-100	20-40-55-70-85-100	20-40-55-70-85-100	15-40-55-70-85-100	15-40-55-70-85-100	20-40-55-70-85-100	20-40-55-70-85-100
Minimum Turndown Ratio			0.25	0.25	0.19	0.19	0.17	0.17	0.19	0.19
Dimensions (H x W x L)		mm	2645 x 2200 x 3690	2645 x 2200 x 5956	2645 x 2200 x 3690	2645 x 2200 x 5956	2645 x 2200 x 4820	2645 x 2200 x 5956	2645 x 2200 x 4820	2645 x 2200 x 5956
Mass										
Machine	(6)	kg	2680	3520	2700	3540	3345	3780	3515	3955
Operating		kg	2765	3630	2785	3650	3455	3905	3625	4080
Construction - Material / Colour		kg	Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)							
Evaporator			Braze Plate							
Insulation			Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Water Volume (Total Internal)		l	43.2	43.2	43.2	43.2	57.6	57.6	57.6	57.6
Maximum Waterflow		l/s	21.6	24.6	23.6	27.0	26.6	29.1	28.1	30.9
Condenser			Epoxy Coated Aluminium Microchannel & Aluminium Fins							
Face Area (Total)		m ²	14.3	23.8	14.3	23.8	19.0	23.8	19.0	23.8
Nominal Airflow		m ³ /s	38.6	64.4	38.6	64.4	51.5	64.4	51.5	64.4
Condenser Fan & Motor			Sickle Bladed Fan							
Quantity			6	10	6	10	8	10	8	10
Diameter		mm	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1032	1032	1032	1032	1032	1032	1032	1032
Compressor			Tandem + Trio	Tandem + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio
Quantity of Compressors			5	5	6	6	6	6	6	6
Oil Charge Volume (Total)		l	2 x 7.2 + 3 x 6.7	2 x 7.2 + 3 x 6.7	3 x 6.7 + 3 x 6.7	3 x 6.7 + 3 x 6.7	3 x 6.7 + 3 x 7.2	3 x 6.7 + 3 x 7.2	3 x 7.2 + 3 x 7.2	3 x 7.2 + 3 x 7.2
Oil Type			Polyol Ester							
Refrigeration			Electronic Expansion Valve (EEV)							
Refrigerant Control			R410A							
Refrigerant Precharged Charge (Total)		kg	30 + 31	43 + 45	30 + 31	43 + 45	39 + 42	46 + 50	39 + 42	47 + 50
Connections			Grooved Terminations							
Water Inlet / Outlet - Unit		inch	DN100 1/2	DN100 1/2	DN100 1/2	DN100 1/2	DN100 1/2	DN100 1/2	DN100 1/2	DN100 1/2
Water Drain / Bleed - Evap										
Water System										
Minimum System Water Volume		l	1535	1581	1250	1281	1273	1285	1565	1583
Maximum System Operating Pressure		Bar	10	10	10	10	10	10	10	10

(1) Based on units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water.

All performance data is supplied in accordance with BS EN 14511-1:2013

(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

Technical Data

Mechanical Data DCC R Type, X Type

	Notes	Units	DCC051DR-08BW0	DCC011SX-04AK00	DCC014SX-04AL00	DCC017SX-04AM00	DCC021SX-06BS00	DCC023SX-04BT00	DCC024SX-06BT00	DCC011DX-04ACC0
Number of Refrigeration Circuits			2	1	1	1	1	1	1	2
Cooling Duty - EC Fans	(1)	kW	523.2	110.5	132.9	161.3	199.1	221.3	240.4	111.5
Nominal Input - Mechanical		kW	202.6	32.7	40.3	52.4	60.6	87.1	79.9	32.6
EER	(2)		2.58	3.38	3.30	3.08	3.29	2.54	3.01	3.42
ESEER	(3)		4.31	4.67	4.56	4.33	4.91	4.34	4.68	4.39
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	20-40-55-75-85-100	55-100	55-100	55-100	35-70-100	40-75-100	40-70-100	50-100
Minimum Turndown Ratio			0.20	0.54	0.54	0.56	0.37	0.41	0.39	0.50
Dimensions (H x W x L)		mm	2645 x 2200 x 4820	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554	2645 x 2200 x 3690	2635 x 2200 x 2554	2645 x 2200 x 3690	2635 x 2200 x 2554
Mass										
Machine	(6)	kg	3515	1575	1600	1725	2260	2010	2455	1640
Operating		kg	3625	1600	1630	1755	2305	2055	2510	1665
Construction - Material / Colour		kg	Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)							
Evaporator			Braze Plate							
Insulation			Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Water Volume (Total Internal)		l	57.6	8.6	11.0	13.2	20.3	25.7	25.7	9.2
Maximum Waterflow		l/s	30.1	7.2	9.2	10.4	13.5	14.2	15.5	7.3
Condenser			Epoxy Coated Aluminium Microchannel & Aluminium Fins							
Face Area (Total)		m ²	19.0	9.5	9.5	9.5	14.3	9.5	14.3	9.5
Nominal Airflow		m ³ /s	51.5	15.9	15.9	15.9	23.8	15.9	23.8	15.9
Condenser Fan & Motor			Sickle Bladed Fan							
Quantity			8	4	4	4	6	4	6	4
Diameter		mm	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1032	657	657	657	657	657	657	657
Compressor			Trio + Trio	Tandem	Tandem	Tandem	Trio	Trio	Trio	Single + Single
Quantity of Compressors			6	2	2	2	3	3	3	2
Oil Charge Volume (Total)		l	3 x 5.3 + 3 x 5.3	2 x 6.7	2 x 6.7	2 x 7.2	3 x 6.7	3 x 7.2	3 x 7.2	1 x 6.7 + 1 x 6.7
Oil Type			Polyol Ester							
Refrigeration			Electronic Expansion Valve (EEV)							
Refrigerant Control			R410A							
Refrigerant Precharged Charge (Total)		kg	40 + 43	26.00	27.00	27.00	40.00	39.00	42.00	15 + 15
Connections			Grooved Terminations							
Water Inlet / Outlet - Unit			DN100	DN80	DN80	DN80	DN80	DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Water System										
Minimum System Water Volume		l	1799	1035	1250	1550	1289	1571	1602	963
Maximum System Operating Pressure		Bar	10	10	10	10	10	10	10	10

(1) Based on units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water.

All performance data is supplied in accordance with BS EN 14511-1:2013

(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

Technical Data

Mechanical Data DCC X Type

	Notes	Units	DCC013DX-04ACD0	DCC014DX-04ADD0	DCC015DX-04ADF0	DCC016DX-04AJU0	DCC018DX-04BJK0	DCC019DX-04AFK0	DCC020DX-06AFK0	DCC021DX-04AKK0
Number of Refrigeration Circuits			2	2	2	2	2	2	2	2
Cooling Duty - EC Fans	(1)	kW	123.5	133.6	148.1	157.1	178.6	183.7	195.1	203.0
Nominal Input - Mechanical		kW	36.4	40.0	46.3	50.7	61.7	63.0	59.0	73.2
EER	(2)		3.40	3.34	3.20	3.10	2.89	2.92	3.31	2.77
ESEER	(3)		4.48	4.24	4.28	4.61	4.53	4.06	4.50	4.28
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	45-100	50-100	45-100	30-55-80-100	25-55-75-100	45-75-100	45-75-100	30-55-80-100
Minimum Turndown Ratio			0.46	0.50	0.46	0.28	0.24	0.45	0.44	0.29
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554	2645 x 2200 x 3690	2635 x 2200 x 2554
Mass										
Machine	(6)	kg	1655	1655	1725	1765	1870	1875	2375	1945
Operating		kg	1680	1685	1755	1795	1905	1910	2420	1985
Construction - Material / Colour		kg	Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)							
Evaporator			Braze Plate							
Insulation			Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Water Volume (Total Internal)		l	11.2	11.2	13.2	13.2	18.0	18.8	18.8	18.8
Maximum Waterflow		l/s	8.5	9.1	9.8	10.1	11.6	11.6	12.6	13.0
Condenser			Epoxy Coated Aluminium Microchannel & Aluminium Fins							
Face Area (Total)		m ²	9.5	9.5	9.5	9.5	9.5	9.5	14.3	9.5
Nominal Airflow		m ³ /s	15.9	15.9	15.9	15.9	15.9	15.9	23.8	15.9
Condenser Fan & Motor			Sickle Bladed Fan							
Quantity			4	4	4	4	4	4	6	4
Diameter		mm	800	800	800	800	800	800	800	800
Maximum Speed		rpm	657	657	657	657	657	657	657	657
Compressor			Single + Single	Single + Single	Single + Single	Tandem + Tandem	Tandem + Tandem	Single + Tandem	Single + Tandem	Tandem + Tandem
Quantity of Compressors			2	2	2	4	4	3	3	4
Oil Charge Volume (Total)		l	1 x 6.7 + 1 x 6.7	1 x 6.7 + 1 x 6.7	1 x 6.7 + 1 x 7.2	2 x 3.6 + 2 x 3.6	2 x 3.6 + 2 x 6.7	1 x 7.2 + 2 x 6.7	1 x 7.2 + 2 x 6.7	2 x 6.7 + 2 x 6.7
Oil Type			Polyol Ester							
Refrigeration			Electronic Expansion Valve (EEV)							
Refrigerant Control			R410A							
Refrigerant Precharged										
Charge (Total)		kg	15 + 16	15 + 16	16 + 16	16 + 16	17 + 18	17 + 17	23 + 24	17 + 17
Connections			Grooved Terminations							
Water Inlet / Outlet - Unit			DN80	DN80	DN80	DN80	DN80	DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Water System										
Minimum System Water Volume		l	980	1155	1168	754	755	1421	1491	1006
Maximum System Operating Pressure		Bar	10	10	10	10	10	10	10	10

(1) Based on units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water.

All performance data is supplied in accordance with BS EN 14511-1:2013

(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

Technical Data

Mechanical Data DCC X Type

	Notes	Units	DCC022DX-06AKK0	DCC024DX-06BKL0	DCC025DX-08BKL0	DCC027DX-06BLL0	DCC028DX-08BLL0	DCC030DX-06BLM0	DCC031DX-08BLM0	DCC032DX-06BMM0
Number of Refrigeration Circuits			2	2	2	2	2	2	2	2
Cooling Duty - EC Fans	(1)	kW	217.7	237.4	245.8	255.1	265.7	280.5	295.0	303.5
Nominal Input - Mechanical		kW	67.9	75.9	73.1	83.8	80.5	97.6	92.7	111.1
EER	(2)		3.21	3.13	3.36	3.04	3.30	2.88	3.18	2.73
ESEER	(3)		4.68	4.67	4.92	4.51	4.76	4.47	4.73	4.23
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		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	25-55-75-100	30-55-80-100	25-55-75-100	25-55-75-100	25-55-75-100	30-60-80-100
Minimum Turndown Ratio			0.27	0.25	0.25	0.28	0.27	0.26	0.25	0.29
Dimensions (H x W x L)		mm	2645 x 2200 x 3690	2645 x 2200 x 3690	2645 x 2200 x 4820	2645 x 2200 x 3690	2645 x 2200 x 4820	2645 x 2200 x 3690	2645 x 2200 x 4820	2645 x 2200 x 3690
Mass										
Machine	(6)	kg	2445	2510	2955	2520	2965	2655	3100	2770
Operating		kg	2490	2575	3030	2585	3040	2725	3180	2840
Construction - Material / Colour		kg	Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)							
Evaporator			Braze Plate							
Insulation			Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Water Volume (Total Internal)		l	18.8	26.1	26.1	26.1	26.1	30.6	30.6	30.6
Maximum Waterflow		l/s	14.1	15.3	16.3	16.8	18.0	18.2	19.5	19.3
Condenser			Epoxy Coated Aluminium Microchannel & Aluminium Fins							
Face Area (Total)		m ²	14.3	14.3	19.0	14.3	19.0	14.3	19.0	14.3
Nominal Airflow		m ³ /s	23.8	23.8	31.8	23.8	31.8	23.8	31.8	23.8
Condenser Fan & Motor			Sickle Bladed Fan							
Quantity			6	6	8	6	8	6	8	6
Diameter		mm	800	800	800	800	800	800	800	800
Maximum Speed		rpm	657	657	657	657	657	657	657	657
Compressor			Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			4	4	4	4	4	4	4	4
Oil Charge Volume (Total)		l	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 7.2	2 x 6.7 + 2 x 7.2	2 x 7.2 + 2 x 7.2
Oil Type			Polyol Ester							
Refrigeration			Electronic Expansion Valve (EEV)							
Refrigerant Control			R410A							
Refrigerant Precharged Charge (Total)		kg	23 + 24	25 + 27	31 + 34	26 + 27	32 + 34	27 + 28	33 + 35	27 + 28
Connections			Grooved Terminations							
Water Inlet / Outlet - Unit			DN80	DN100	DN100	DN100	DN100	DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Water System										
Minimum System Water Volume		l	1030	1035	1048	1232	1249	1237	1257	1519
Maximum System Operating Pressure		Bar	10	10	10	10	10	10	10	10

(1) Based on units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water.

All performance data is supplied in accordance with BS EN 14511-1:2013

(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

Technical Data

Mechanical Data DCC X Type

	Notes	Units	DCC033DX-08BMM0	DCC036DX-08BMS0	DCC038DX-10BMS0	DCC039DX-08BSS0	DCC042DX-12BSS0	DCC043DX-08BST0	DCC045DX-12BST0	DCC046DX-10BTT0
Number of Refrigeration Circuits			2	2	2	2	2	2	2	2
Cooling Duty - EC Fans	(1)	kW	321.4	351.0	363.0	374.6	398.7	409.1	440.3	462.7
Nominal Input - Mechanical		kW	104.8	117.1	113.2	129.0	121.1	151.5	140.4	164.9
EER	(2)		3.07	3.00	3.21	2.90	3.29	2.70	3.14	2.81
ESEER	(3)		4.51	4.59	4.67	4.73	5.04	4.64	4.96	4.64
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Capacity Steps		%	30-55-80-100	25-45-70-85-100	25-45-65-85-100	20-40-55-75-85-100	20-35-55-70-85-100	20-40-55-75-85-100	15-40-55-70-85-100	20-40-55-75-85-100
Minimum Turndown Ratio			0.28	0.26	0.25	0.20	0.19	0.18	0.17	0.20
Dimensions (H x W x L)		mm	2645 x 2200 x 4820	2645 x 2200 x 4820	2645 x 2200 x 5956	2645 x 2200 x 4820	2645 x 2200 x 7090	2645 x 2200 x 4820	2645 x 2200 x 7090	2645 x 2200 x 5956
Mass										
Machine	(6)	kg	3210	3285	3750	3305	4170	3545	4410	4155
Operating		kg	3295	3380	3855	3400	4295	3655	4550	4280
Construction - Material / Colour		kg	Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)							
Evaporator			Braze Plate							
Insulation			Class 1	Class 1	Class 1	Class 1	Class 1	Class 2	Class 1	Class 3
Water Volume (Total Internal)		l	30.6	43.2	43.2	43.2	43.2	57.6	57.6	57.6
Maximum Waterflow		l/s	20.7	22.6	24.1	24.8	27.0	26.6	29.1	27.5
Condenser			Epoxy Coated Aluminium Microchannel & Aluminium Fins							
Face Area (Total)		m ²	19.0	19.0	23.8	19.0	28.5	19.0	28.5	23.8
Nominal Airflow		m ³ /s	31.8	31.8	39.7	31.8	47.6	31.8	47.6	39.7
Condenser Fan & Motor			Sickle Bladed Fan							
Quantity			8	8	10	8	12	8	12	10
Diameter		mm	800	800	800	800	800	800	800	800
Maximum Speed		rpm	657	657	657	657	657	657	657	657
Compressor			Tandem + Tandem	Tandem + Trio	Tandem + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio	Trio + Trio
Quantity of Compressors			4	5	5	6	6	6	6	6
Oil Charge Volume (Total)		l	2 x 7.2 + 2 x 7.2	2 x 7.2 + 3 x 6.7	2 x 7.2 + 3 x 6.7	3 x 6.7 + 3 x 6.7	3 x 6.7 + 3 x 6.7	3 x 6.7 + 3 x 7.2	3 x 6.7 + 3 x 7.2	3 x 7.2 + 3 x 7.2
Oil Type			Polyol Ester							
Refrigeration			Electronic Expansion Valve (EEV)							
Refrigerant Control			R410A							
Refrigerant Precharged										
Charge (Total)		kg	33 + 35	36 + 38	37 + 51	36 + 38	50 + 52	39 + 42	52 + 58	47 + 50
Connections			Grooved Terminations							
Water Inlet / Outlet - Unit			DN100	DN100	DN100	DN100	DN100	DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2	1/2	1/2	1 1/2	1/2	2 1/2
Water System										
Minimum System Water Volume		l	1546	1563	1563	1269	1290	1273	1294	1583
Maximum System Operating Pressure		Bar	10	10	10	10	10	10	10	10

(1) Based on units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water.

All performance data is supplied in accordance with BS EN 14511-1:2013

(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

Technical Data

Mechanical Data DCC X Type

	Notes	Units	DCC048DX-12BTT0	DCC051DX-10BVV0
Number of Refrigeration Circuits			2	2
Cooling Duty - EC Fans	(1)	kW	477.9	514.8
Nominal Input - Mechanical		kW	159.6	196.9
EER	(2)		2.99	2.61
ESEER	(3)		4.78	4.53
Nominal Output - Free Cooling	(4)	kW	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A
Capacity Steps		%	20-40-55-70-85-100	20-40-60-75-85-100
Minimum Turndown Ratio			0.19	0.20
Dimensions (H x W x L)		mm	2645 x 2200 x 7090	2645 x 2200 x 5956
Mass				
Machine	(6)	kg	4590	4160
Operating		kg	4725	4285
Construction - Material / Colour		kg	Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)	
Evaporator			Brazen Plate	
Insulation			Class 1	Class 4
Water Volume (Total Internal)		l	57.6	57.6
Maximum Waterflow		l/s	30.8	30.3
Condenser			Epoxy Coated Aluminium Microchannel & Aluminium Fins	
Face Area (Total)		m ²	28.5	23.8
Nominal Airflow		m ³ /s	47.6	39.7
Condenser Fan & Motor			Sickle Bladed Fan	
Quantity			12	10
Diameter		mm	800	800
Maximum Speed		rpm	657	657
Compressor			Trio + Trio	Trio + Trio
Quantity of Compressors			6	6
Oil Charge Volume (Total)		l	3 x 7.2 + 3 x 7.2	3 x 5.3 + 3 x 5.3
Oil Type			Polyol Ester	
Refrigeration			Electronic Expansion Valve (EEV)	
Refrigerant Control			R410A	
Refrigerant Precharged Charge (Total)		kg	54 + 58	48 + 51
Connections			Grooved Terminations	
Water Inlet / Outlet - Unit			DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	3 1/2
Water System				
Minimum System Water Volume		l	1597	1821
Maximum System Operating Pressure		Bar	10	10

(1) Based on units performance at 12/7°C return/supply temperatures, 35°C ambient, 100% water.

All performance data is supplied in accordance with BS EN 14511-1:2013

(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

Technical Data

Electrical data DCC R Type

	Notes	Units	DCC011SR-04AK00	DCC014SR-04AL00	DCC017SR-04AM00	DCC021SR-04BS00	DCC023SR-04BT00	DCC024SR-06BT00	DCC011DR-04ACC0	DCC013DR-04ACD0
ELECTRICAL DATA										
Unit Data										
Nominal Run Amps	(1)	A	79.16	91.42	113.82	129.33	162.93	170.73	79.16	85.29
Maximum Start Amps	(2)	A	262.38	313.51	384.71	351.42	433.82	441.62	262.38	307.38
Recommended Mains Fuse Size		A	100	125	160	160	200	200	100	125
Mains Supply		VAC	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm ²				Direct to Bus Bar				
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm ²				4 mm ² terminals				
Control Circuit		VAC	24V/230VAC							
Evaporator										
External Trace Heating Available (fitted by others)		W	500	500	500	500	500	500	500	500
Condenser Fan - Per Fan (EC)										
Quantity			4	4	4	4	4	6	4	4
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor										
Nominal Run Amps		A	31.8	37.9	49.1	37.9	49.1	49.1	31.8 / 31.8	37.9 / 31.8
Quantity			2	2	2	3	3	3	1 + 1	1 + 1
Motor Rating		kW	18.8	22.4	28.8	22.4	28.8	28.8	18.8 / 18.8	22.4 / 18.8
Sump Heater Rating		W	75	75	130	75	130	130	75	75
Start Amps	(2)	A	215	260	320	260	320	320	215 / 215	260 / 260
Type Of Start						Direct on line				
OPTIONAL EXTRAS										
Power Factor Correction										
Nominal Run Amps		A	73	84	103	117.850	162.93	170.73	72.609	78.188
Maximum Start Amps		A	259	310	379	343.767	433.82	441.62	259.104	304.104
Compressor Nominal Run Amps		A	28.5	34.08	43.77	34.08	49.11	49.11	28.5 / 28.5	34.1 / 28.5
Recommended Mains Fuse Size		A	100	125	160	160	200	200	100	125
Electronic Soft-start										
Nominal Run Amps		A	79.16	91.42	113.82	129.33	162.93	170.73	79.16	85.29
Maximum Start Amps		A	176.38	209.51	256.71	247.42	305.82	313.62	176.38	203.38
Recommended Mains Fuse		A	100	125	160	160	200	200	100	125
Power Factor Correction & Electronic Soft Start										
Nominal Run Amps		A	73	84	103	117.850	162.93	170.73	72.609	78.188
Maximum Start Amps		A	173	206	251	239.767	305.82	313.62	173.104	200.104
Compressor Nominal Run Amps		A	28.5	34.08	43.77	34.08	49.11	49.11	28.5 / 28.5	34.1 / 28.5
Recommended Mains Fuse Size		A	100	125	160	160	200	200	100	125
Standard Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	5	5	5	5	6.2	6.2	5	5
Unit Nominal Run Amps		A	84.16	96.42	118.82	134.33	169.13	176.93	84.16	90.29
Recommended Mains Fuse Size		A	100	125	160	200	200	200	100	125
Motor Rating		kW	2.2	2.2	2.2	2.2	3	3	2.2	2.2
Larger Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	5	5	6.6	6.6	8.9	8.9	5	5
Unit Nominal Run Amps		A	84	96	120	135.93	171.83	179.63	84.16	90.29
Recommended Mains Fuse Size		A	100	125	160	200	200	200	100	125
Motor Rating		kW	2.2	2.2	3	3	4	4	2.2	2.2
Standard Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	4.45	4.45	4.45	4.45	6.3	8	4.45	4.45
Unit Nominal Run Amps		A	84	96	118	133.78	169.23	178.73	83.61	89.74
Recommended Mains Fuse Size		A	100	125	160	200	200	200	100	125
Motor Rating		kW	2.2	2.2	2.2	2.2	3	4	2.2	2.2
Larger Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	6.3	6.3	6.3	6.3	8	8	6.3	6.3
Unit Nominal Run Amps		A	85	98	120	135.63	170.93	178.73	85.46	91.59
Recommended Mains Fuse Size		A	100	125	160	200	200	200	100	125
Motor Rating		kW	3	3	3	3	4	4	3	3

(1) Based at 7.2°C Evap / 54.4°C Condensing, EC Fans.

(2) Starting amps refers to the direct on line connections.

Technical Data

Electrical data DCC R Type

	Notes	Units	DCC014DR-04ADD0	DCC015DR-04ADF0	DCC016DR-04AJJ0	DCC018DR-04BJK0	DCC019DR-04AFK0	DCC020DR-06AFK0	DCC021DR-04AKK0	DCC022DR-06AKK0
ELECTRICAL DATA										
Unit Data										
Nominal Run Amps	(1)	A	91.42	102.62	113.88	128.3	128.27	136.07	142.72	150.52
Maximum Start Amps	(2)	A	313.51	373.51	286.31	311.52	339.16	406.96	325.94	333.74
Recommended Mains Fuse Size		A	125	125	160	160	160	160	160	200
Mains Supply		VAC	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm²	Direct to Bus Bar							
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm²	4 mm² terminals							
Control Circuit		VAC	24V/230VAC							
Evaporator										
External Trace Heating										
Available (fitted by others)		W	500	500	500	500	500	500	500	500
Condenser Fan - Per Fan (EC)										
Quantity			4	4	4	4	4	6	4	6
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor										
Nominal Run Amps		A	37.9 / 37.9	49.1 / 37.9	24.6 / 24.6	31.8 / 24.6	31.8 / 49.1	31.8 / 49.1	31.8 / 31.8	31.8 / 31.8
Quantity			1 + 1	1 + 1	2 + 2	2 + 2	2 + 1	2 + 1	2 + 2	2 + 2
Motor Rating		kW	22.4 / 22.4	28.8 / 22.4	13.6 / 13.6	18.8 / 13.6	18.8 / 28.8	18.8 / 28.8	18.8 / 18.8	18.8 / 18.8
Sump Heater Rating		W	75	130 + 75	75	75	130 + 75	130 + 75	75	75
Start Amps	(2)	A	260 / 260	320 / 260	197 / 197	215 / 197	215 / 260	215 / 320	215 / 215	215 / 215
Type Of Start			Direct on line							
OPTIONAL EXTRAS										
Power Factor Correction										
Nominal Run Amps		A	83.767	93.456	98.222	113.920	116.381	124.181	129.618	137.418
Maximum Start Amps		A	309.683	369.683	274.566	300.415	392.609	400.409	316.113	323.913
Compressor Nominal Run Amps		A	34.1 / 34.1	43.8 / 34.1	20.7 / 20.7	28.5 / 20.7	28.5 / 43.8	28.5 / 43.8	28.5 / 28.5	28.5 / 28.5
Recommended Mains Fuse Size		A	125	125	160	160	160	160	160	200
Electronic Soft-start										
Nominal Run Amps		A	91.42	102.62	113.88	128.3	128.27	136.07	142.72	150.52
Maximum Start Amps		A	209.51	245.51	207.51	225.52	235.16	278.96	239.94	247.74
Recommended Mains Fuse		A	125	125	160	160	160	160	160	200
Power Factor Correction & Electronic Soft Start										
Nominal Run Amps		A	83.767	93.456	98.222	113.920	116.381	124.181	129.618	137.418
Maximum Start Amps		A	205.683	241.683	195.766	214.415	264.609	272.409	230.113	237.913
Compressor Nominal Run Amps		A	34.1 / 34.1	43.8 / 34.1	20.7 / 20.7	28.5 / 20.7	28.5 / 43.8	28.5 / 43.8	28.5 / 28.5	28.5 / 28.5
Recommended Mains Fuse Size		A	125	125	160	160	160	160	160	200
Standard Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	5	5	5	5	5	5	6.2	6.2
Unit Nominal Run Amps		A	96.42	107.62	118.88	133.3	133.27	141.07	148.92	156.72
Recommended Mains Fuse Size		A	125	160	160	160	160	160	160	200
Motor Rating		kW	2.2	2.2	2.2	2.2	2.2	2.2	3	3
Larger Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	5	5	6.6	6.6	6.6	6.6	8.9	8.9
Unit Nominal Run Amps		A	96.42	107.62	120.48	134.9	134.87	142.67	151.62	159.42
Recommended Mains Fuse Size		A	125	160	160	160	160	160	160	200
Motor Rating		kW	2.2	2.2	3	3	3	3	4	4
Standard Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	4.45	4.45	4.45	4.45	4.45	4.45	6.3	6.3
Unit Nominal Run Amps		A	95.87	107.07	118.33	132.75	132.72	140.52	149.02	156.82
Recommended Mains Fuse Size		A	125	160	160	160	160	160	160	200
Motor Rating		kW	2.2	2.2	2.2	2.2	2.2	2.2	3	3
Larger Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	6.3	6.3	6.3	6.3	6.3	6.3	8	8
Unit Nominal Run Amps		A	97.72	108.92	120.18	134.6	134.57	142.37	150.72	158.52
Recommended Mains Fuse Size		A	125	160	160	160	160	160	160	200
Motor Rating		kW	3	3	3	3	3	3	4	4

(1) Based at 7.2°C Evap / 54.4°C Condensing, EC Fans.

(2) Starting amps refers to the direct on line connections.

Technical Data

Electrical data DCC R Type

	Notes	Units	DCC024DR-04BKLO	DCC025DR-06BKLO	DCC027DR-04BLLO	DCC028DR-06BLLO	DCC030DR-06BLMO	DCC031DR-08BLMO	DCC032DR-06BMMO	DCC033DR-08BMMO
ELECTRICAL DATA										
Unit Data										
Nominal Run Amps	(1)	A	154.08	161.88	168	175.8	198.2	206	219.84	227.64
Maximum Start Amps	(2)	A	338.13	345.93	390.47	398.27	469.09	476.89	490.73	498.53
Recommended Mains Fuse Size		A	200	200	200	250	250	250	250	250
Mains Supply		VAC	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm²	Direct to Bus Bar							
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm²	4 mm² terminals							
Control Circuit		VAC	24V/230VAC							
Evaporator										
External Trace Heating										
Available (fitted by others)		W	500	500	500	500	500	500	500	500
Condenser Fan - Per Fan (EC)										
Quantity			4	6	4	6	6	8	6	8
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor										
Nominal Run Amps		A	31.0 / 38.3	31.0 / 38.3	37.9 / 38.3	37.9 / 38.3	49.1 / 38.3	49.1 / 38.3	49.1 / 49.1	49.1 / 49.1
Quantity			2 + 2	2 + 2	2 + 2	2 + 2	2 + 2	2 + 2	2 + 2	2 + 2
Motor Rating		kW	18.5 / 24.0	18.5 / 24.0	22.4 / 24.0	22.4 / 24.0	28.8 / 24.0	28.8 / 24.0	28.8 / 28.8	28.8 / 28.8
Sump Heater Rating		W	75	75	75	75	130 + 75	130 + 75	130	130
Start Amps	(2)	A	215 / 260	215 / 260	260 / 260	260 / 260	320 / 260	320 / 260	320 / 260	320 / 320
Type Of Start			Direct on line							
OPTIONAL EXTRAS										
Power Factor Correction										
Nominal Run Amps		A	140.776	148.576	151.934	159.734	179.111	186.911	198.489	206.289
Maximum Start Amps		A	327.271	335.071	377.850	385.650	455.339	463.139	414.717	482.517
Compressor Nominal Run Amps		A	28.5 / 34.1	28.5 / 34.1	34.1 / 34.1	34.1 / 34.1	43.8 / 34.1	43.8 / 34.1	43.8 / 43.8	43.8 / 43.8
Recommended Mains Fuse Size		A	200	200	200	250	250	250	250	250
Electronic Soft-start										
Nominal Run Amps		A	154.08	161.88	168	175.8	198.2	206	219.84	227.64
Maximum Start Amps		A	252.13	259.93	286.47	294.27	341.09	348.89	362.73	370.53
Recommended Mains Fuse		A	200	200	200	250	250	250	250	250
Power Factor Correction & Electronic Soft Start										
Nominal Run Amps		A	140.776	148.576	151.934	159.734	179.111	186.911	198.489	206.289
Maximum Start Amps		A	241.271	249.071	273.850	281.650	327.339	335.139	310.717	354.517
Compressor Nominal Run Amps		A	28.5 / 34.1	28.5 / 34.1	34.1 / 34.1	34.1 / 34.1	43.8 / 34.1	43.8 / 34.1	43.8 / 43.8	43.8 / 43.8
Recommended Mains Fuse Size		A	200	200	200	250	250	250	250	250
Standard Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	6.2	6.2	6.2	6.2	6.2	6.2	8.9	8.9
Unit Nominal Run Amps		A	160.28	168.08	174.2	182	204.4	212.2	228.74	236.54
Recommended Mains Fuse Size		A	200	200	250	250	250	250	250	250
Motor Rating		kW	3	3	3	3	3	3	4	4
Larger Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	8.9	8.9	8.9	8.9	8.9	8.9	12	12
Unit Nominal Run Amps		A	162.98	170.78	176.9	184.7	207.1	214.9	231.84	239.64
Recommended Mains Fuse Size		A	200	200	250	250	250	250	250	250
Motor Rating		kW	4	4	4	4	4	4	5.5	5.5
Standard Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	8	8	8	8	11.2	11.2	11.2	11.2
Unit Nominal Run Amps		A	162.08	169.88	176	183.8	209.4	217.2	231.04	238.84
Recommended Mains Fuse Size		A	200	200	250	250	250	250	250	250
Motor Rating		kW	4	4	4	4	5.5	5.5	5.5	5.5
Larger Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
Unit Nominal Run Amps		A	165.28	173.08	179.2	187	209.4	217.2	231.04	238.84
Recommended Mains Fuse Size		A	200	200	250	250	250	250	250	250
Motor Rating		kW	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

(1) Based at 7.2°C Evap / 54.4°C Condensing, EC Fans.

(2) Starting amps refers to the direct on line connections.

Technical Data

Electrical data DCC R Type

	Notes	Units	DCC036DR-06BMS0	DCC038DR-10BMS0	DCC039DR-06BSS0	DCC042DR-10BSS0	DCC043DR-08BST0	DCC045DR-10BST0	DCC046DR-08BTT0	DCC048DR-10BTT0
ELECTRICAL DATA										
Unit Data										
Nominal Run Amps	(1)	A	235.35	250.95	250.86	267.6	292.26	301.2	325.86	333.66
Maximum Start Amps	(2)	A	506.24	521.84	472.95	490.45	563.15	572.09	596.75	604.55
Recommended Mains Fuse Size		A	315	315	315	315	355	355	355	355
Mains Supply		VAC	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm²	Direct to Bus Bar							
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm²	4 mm² terminals							
Control Circuit		VAC	24V/230VAC							
Evaporator										
External Trace Heating										
Available (fitted by others)		W	500	500	500	500	500	500	500	500
Condenser Fan - Per Fan (EC)										
Quantity			6	10	6	10	8	10	8	10
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor										
Nominal Run Amps		A	37.9 / 49.1	37.9 / 49.1	37.9 / 37.9	37.9 / 38.3	49.1 / 37.9	49.1 / 38.3	49.1 / 49.1	49.1 / 49.1
Quantity			3 + 2	3 + 2	3 + 3	3 + 3	3 + 3	3 + 3	3 + 3	3 + 3
Motor Rating		kW	22.4 / 28.8	22.4 / 28.8	22.4 / 22.4	22.4 / 24.0	28.8 / 22.4	28.8 / 24.0	28.8 / 28.8	28.8 / 28.8
Sump Heater Rating		W	130 + 75	130 + 75	75	75	130 + 75	130 + 75	130	130
Start Amps	(2)	A	260 / 320	260 / 320	260 / 260	260 / 260	320 / 260	320 / 260	320 / 320	320 / 320
Type Of Start			Direct on line							
OPTIONAL EXTRAS										
Power Factor Correction										
Nominal Run Amps		A	213.195	228.795	227.901	243.501	264.767	272.567	293.834	301.634
Maximum Start Amps		A	489.423	505.023	453.817	469.417	540.995	548.795	570.061	577.861
Compressor Nominal Run Amps		A	34.1 / 43.8	34.1 / 43.8	34.1 / 34.1	34.1 / 34.1	43.8 / 34.1	43.8 / 34.1	43.8 / 43.8	43.8 / 43.8
Recommended Mains Fuse Size		A	315	315	315	315	355	355	355	355
Electronic Soft-start										
Nominal Run Amps		A	235.35	250.95	250.86	267.6	292.26	301.2	325.86	333.66
Maximum Start Amps		A	378.24	393.84	368.95	386.45	386.04	394.98	468.75	476.55
Recommended Mains Fuse		A	315	315	315	315	355	355	355	355
Power Factor Correction & Electronic Soft Start										
Nominal Run Amps		A	213.195	228.795	227.901	243.501	264.767	272.567	293.834	301.634
Maximum Start Amps		A	361.423	377.023	349.817	365.417	369.223	377.023	442.061	449.861
Compressor Nominal Run Amps		A	34.1 / 43.8	34.1 / 43.8	34.1 / 34.1	34.1 / 34.1	43.8 / 34.1	43.8 / 34.1	43.8 / 43.8	43.8 / 43.8
Recommended Mains Fuse Size		A	315	315	315	315	355	355	355	355
Standard Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	12	12	12	12	12	12	12	12
Unit Nominal Run Amps		A	247.35	262.95	262.86	279.6	304.26	313.2	337.86	345.66
Recommended Mains Fuse Size		A	315	315	315	355	355	355	355	355
Motor Rating		kW	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Larger Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	14	14	14	14	14	14	14	14
Unit Nominal Run Amps		A	249.35	264.95	264.86	281.6	306.26	315.2	339.86	347.66
Recommended Mains Fuse Size		A	315	315	315	355	355	355	355	355
Motor Rating		kW	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Standard Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
Unit Nominal Run Amps		A	246.55	262.15	262.06	278.8	303.46	312.4	337.06	344.86
Recommended Mains Fuse Size		A	315	315	315	355	355	355	355	355
Motor Rating		kW	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Larger Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	11.2	11.2	11.2	11.2	14.8	14.8	14.8	14.8
Unit Nominal Run Amps		A	246.55	262.15	262.06	278.8	307.06	316	340.66	348.46
Recommended Mains Fuse Size		A	315	315	315	355	355	355	355	355
Motor Rating		kW	5.5	5.5	5.5	5.5	7.5	7.5	7.5	7.5

(1) Based at 7.2°C Evap / 54.4°C Condensing, EC Fans.

(2) Starting amps refers to the direct on line connections.

Technical Data

Electrical data DCC R Type, X Type

	Notes	Units	DCC051DR-08BW0	DCC011SX-04AK00	DCC014SX-04AL00	DCC017SX-04AM00	DCC021SX-06BS00	DCC023SX-04BT00	DCC024SX-06BT00	DCC011DX-04AC00
ELECTRICAL DATA										
Unit Data										
Nominal Run Amps	(1)	A	362.4	79.16	91.42	113.82	137.13	162.93	170.73	79.16
Maximum Start Amps	(2)	A	633.2	262.38	313.51	384.71	359.22	433.82	441.62	262.38
Recommended Mains Fuse Size		A	400	100	125	160	160	200	200	100
Mains Supply		VAC	401 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm²	Direct to Bus Bar							
Recommended Permanent Fuse Size		A	17	16	16	16	16	16	16	16
Permanent Supply		VAC	231 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm²	4 mm² terminals							
Control Circuit		VAC	24V/230VAC							
Evaporator										
External Trace Heating										
Available (fitted by others)		W	500	500	500	500	500	500	500	500
Condenser Fan - Per Fan (EC)										
Quantity			8	4	4	4	6	4	6	4
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor										
Nominal Run Amps		A	55.2 / 55.2	31.8	37.9	49.1	37.9	49.1	49.1	31.8 / 31.8
Quantity			3 + 3	2	2	2	3	3	3	1 + 1
Motor Rating		kW	33.1 / 33.1	18.8	22.4	28.8	22.4	28.8	28.8	18.8 / 18.8
Sump Heater Rating		W	140	75	75	130	75	130	130	75
Start Amps	(2)	A	326 / 326	215	260	320	260	320	320	215 / 215
Type Of Start			Direct on line							
OPTIONAL EXTRAS										
Power Factor Correction										
Nominal Run Amps		A	332.941	72.609	83.767	103.145	125.650	162.93	170.73	72.609
Maximum Start Amps		A	608.651	259.104	309.683	379.372	351.567	433.82	441.62	259.104
Compressor Nominal Run Amps		A	50.3 / 50.3	28.5	34.08	43.77	34.08	49.11	49.11	28.5 / 28.5
Recommended Mains Fuse Size		A	400	100	125	160	160	200	200	100
Electronic Soft-start										
Nominal Run Amps		A	362.4	79.16	91.42	113.82	137.13	162.93	170.73	79.16
Maximum Start Amps		A	502.8	176.38	209.51	256.71	255.22	265.22	273.02	176.38
Recommended Mains Fuse		A	400	100	125	160	160	200	200	100
Power Factor Correction & Electronic Soft Start										
Nominal Run Amps		A	332.941	72.609	83.767	103.145	125.650	162.93	170.73	72.609
Maximum Start Amps		A	478.251	173.104	205.683	251.372	247.567	305.82	313.62	173.104
Compressor Nominal Run Amps		A	50.3 / 50.3	28.5	34.08	43.77	34.08	49.11	49.11	28.5 / 28.5
Recommended Mains Fuse Size		A	400	100	125	160	160	200	200	100
Standard Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	12	5	5	5	5	6.2	6.2	5
Unit Nominal Run Amps		A	374.4	84.16	96.42	118.82	142.13	169.13	176.93	84.16
Recommended Mains Fuse Size		A	400	100	125	160	200	200	200	100
Motor Rating		kW	5.5	2.2	2.2	2.2	2.2	3	3	2.2
Larger Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	14	5	5	6.6	6.6	8.9	8.9	5
Unit Nominal Run Amps		A	376.4	84.16	96.42	120.42	143.73	171.83	179.63	84.16
Recommended Mains Fuse Size		A	400	100	125	160	200	200	200	100
Motor Rating		kW	7.5	2.2	2.2	3	3	4	4	2.2
Standard Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	11.2	4.45	4.45	4.45	4.45	6.3	6.3	4.45
Unit Nominal Run Amps		A	373.6	83.61	95.87	118.27	141.58	169.23	177.03	83.61
Recommended Mains Fuse Size		A	400	100	125	160	200	200	200	100
Motor Rating		kW	5.5	2.2	2.2	2.2	2.2	3	3	2.2
Larger Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	14.8	6.3	6.3	6.3	6.3	8	8	6.3
Unit Nominal Run Amps		A	377.2	85.46	97.72	120.12	143.43	170.93	178.73	85.46
Recommended Mains Fuse Size		A	400	100	125	160	200	200	200	100
Motor Rating		kW	7.5	3	3	3	3	4	4	3

(1) Based at 7.2°C Evap / 54.4°C Condensing, EC Fans.

(2) Starting amps refers to the direct on line connections.

Technical Data

Electrical data DCC X Type

	Notes	Units	DCC013DX-04ACD0	DCC014DX-04ADD0	DCC015DX-04ADF0	DCC016DX-04AJU0	DCC018DX-04BJK0	DCC019DX-04AFK0	DCC020DX-06AFK0	DCC021DX-04AKK0
ELECTRICAL DATA										
Unit Data										
Nominal Run Amps	(1)	A	85.29	91.42	102.62	113.88	136.1	128.27	136.07	142.72
Maximum Start Amps	(2)	A	307.38	313.51	373.51	286.31	319.32	339.16	406.96	325.94
Recommended Mains Fuse Size		A	125	125	125	160	160	160	160	160
Mains Supply		VAC	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm²	Direct to Bus Bar							
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm²	4 mm² terminals							
Control Circuit		VAC	24V/230VAC							
Evaporator										
External Trace Heating										
Available (fitted by others)		W	500	500	500	500	500	500	500	500
Condenser Fan - Per Fan (EC)										
Quantity			4	4	4	4	6	4	6	4
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor										
Nominal Run Amps		A	37.9 / 31.8	37.9 / 37.9	49.1 / 37.9	24.6 / 24.6	31.8 / 24.6	31.8 / 49.1	31.8 / 49.1	31.8 / 31.8
Quantity			1 + 1	1 + 1	1 + 1	2 + 2	2 + 2	2 + 1	2 + 1	2 + 2
Motor Rating		kW	22.4 / 18.8	22.4 / 22.4	28.8 / 22.4	13.6 / 13.6	18.8 / 13.6	18.8 / 28.8	18.8 / 28.8	18.8 / 18.8
Sump Heater Rating		W	75	75	130 + 75	75	75	131 + 75	130 + 75	75
Start Amps	(2)	A	260 / 260	260 / 260	320 / 260	197 / 197	215 / 197	215 / 260	215 / 320	215 / 215
Type Of Start			Direct on line							
OPTIONAL EXTRAS										
Power Factor Correction										
Nominal Run Amps		A	78.188	83.767	93.456	98.222	121.720	116.381	124.181	129.618
Maximum Start Amps		A	304.104	309.683	369.683	274.566	308.215	392.609	400.409	316.113
Compressor Nominal Run Amps		A	34.1 / 28.5	34.1 / 34.1	43.8 / 34.1	20.7 / 20.7	28.5 / 20.7	28.5 / 43.8	28.5 / 43.8	28.5 / 28.5
Recommended Mains Fuse Size		A	125	125	125	160	160	160	160	160
Electronic Soft-start										
Nominal Run Amps		A	85.29	91.42	102.62	113.88	136.1	128.27	136.07	142.72
Maximum Start Amps		A	203.38	209.51	245.51	207.51	233.32	235.16	278.96	239.94
Recommended Mains Fuse		A	125	125	125	160	160	160	160	160
Power Factor Correction & Electronic Soft Start										
Nominal Run Amps		A	78.188	83.767	93.456	98.222	121.720	116.381	124.181	129.618
Maximum Start Amps		A	200.104	205.683	241.683	195.766	222.215	264.609	272.409	230.113
Compressor Nominal Run Amps		A	34.1 / 28.5	34.1 / 34.1	43.8 / 34.1	20.7 / 20.7	28.5 / 20.7	28.5 / 43.8	28.5 / 43.8	28.5 / 28.5
Recommended Mains Fuse Size		A	125	125	125	160	160	160	160	160
Standard Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	5	5	5	5	5	5	5	5
Unit Nominal Run Amps		A	90.29	96.42	107.62	118.88	141.1	133.27	141.07	147.72
Recommended Mains Fuse Size		A	125	125	160	160	160	160	160	160
Motor Rating		kW	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Larger Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	5	5	5	6.6	6.6	6.6	6.6	6.6
Unit Nominal Run Amps		A	90.29	96.42	107.62	120.48	142.7	134.87	142.67	149.32
Recommended Mains Fuse Size		A	125	125	160	160	160	160	160	160
Motor Rating		kW	2.2	2.2	2.2	3	3	3	3	3
Standard Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	4.45	4.45	4.45	4.45	4.45	4.45	4.45	4.45
Unit Nominal Run Amps		A	89.74	95.87	107.07	118.33	140.55	132.72	140.52	147.17
Recommended Mains Fuse Size		A	125	125	160	160	160	160	160	160
Motor Rating		kW	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Larger Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Unit Nominal Run Amps		A	91.59	97.72	108.92	120.18	142.4	134.57	142.37	149.02
Recommended Mains Fuse Size		A	125	125	160	160	160	160	160	160
Motor Rating		kW	3	3	3	3	3	3	3	3

(1) Based at 7.2°C Evap / 54.4°C Condensing, EC Fans.

(2) Starting amps refers to the direct on line connections.

Technical Data

Electrical data DCC X Type

	Notes	Units	DCC022DX-06AKK0	DCC024DX-06BKL0	DCC025DX-08BKL0	DCC027DX-06BLL0	DCC028DX-08BLL0	DCC030DX-06BLM0	DCC031DX-08BLM0	DCC032DX-06BMM0
ELECTRICAL DATA										
Unit Data										
Nominal Run Amps	(1)	A	150.52	161.88	169.68	175.8	183.6	198.2	198.2	219.84
Maximum Start Amps	(2)	A	333.74	345.93	353.73	398.27	406.07	469.09	469.09	490.73
Recommended Mains Fuse Size		A	160	200	200	200	250	250	250	250
Mains Supply		VAC	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm²	Direct to Bus Bar							
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm²	4 mm² terminals							
Control Circuit		VAC	24V/230VAC							
Evaporator										
External Trace Heating										
Available (fitted by others)		W	500	500	500	500	500	500	500	500
Condenser Fan - Per Fan (EC)										
Quantity			6	6	8	6	8	6	6	6
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor										
Nominal Run Amps		A	31.8 / 31.8	31.0 / 38.3	31.0 / 38.3	37.9 / 38.3	37.9 / 38.3	49.1 / 38.3	49.1 / 38.3	49.1 / 49.1
Quantity			2 + 2	2 + 2	2 + 2	2 + 2	2 + 2	2 + 2	2 + 2	2 + 2
Motor Rating		kW	18.8 / 18.8	18.5 / 24.0	18.5 / 24.0	22.4 / 24.0	22.4 / 24.0	28.8 / 24.0	28.8 / 24.0	28.8 / 28.8
Sump Heater Rating		W	75	75	75	75	75	130 + 75	130 + 75	130
Start Amps	(2)	A	215 / 215	215 / 260	215 / 260	260 / 260	260 / 260	320 / 260	320 / 260	320 / 260
Type Of Start			Direct on line							
OPTIONAL EXTRAS										
Power Factor Correction										
Nominal Run Amps		A	137.418	148.576	156.376	159.734	167.534	179.111	179.111	198.489
Maximum Start Amps		A	323.913	335.071	342.871	385.650	393.450	455.339	455.339	474.717
Compressor Nominal Run Amps		A	28.5 / 28.5	28.5 / 34.1	28.5 / 34.1	34.1 / 34.1	34.1 / 34.1	43.8 / 34.1	43.8 / 34.1	43.8 / 43.8
Recommended Mains Fuse Size		A	160	200	200	200	250	250	250	250
Electronic Soft-start										
Nominal Run Amps		A	150.52	161.88	169.68	175.8	183.6	198.2	198.2	219.84
Maximum Start Amps		A	247.74	259.93	267.73	294.27	302.07	341.09	341.09	362.73
Recommended Mains Fuse		A	160	200	200	200	250	250	250	250
Power Factor Correction & Electronic Soft Start										
Nominal Run Amps		A	137.418	148.576	156.376	159.734	167.534	179.111	179.111	198.489
Maximum Start Amps		A	237.913	249.071	256.871	281.650	289.450	327.339	327.339	346.717
Compressor Nominal Run Amps		A	28.5 / 28.5	28.5 / 34.1	28.5 / 34.1	34.1 / 34.1	34.1 / 34.1	43.8 / 34.1	43.8 / 34.1	43.8 / 43.8
Recommended Mains Fuse Size		A	160	200	200	200	250	250	250	250
Standard Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Unit Nominal Run Amps		A	156.72	168.08	175.88	182	189.8	204.4	204.4	226.04
Recommended Mains Fuse Size		A	200	200	250	200	250	250	250	250
Motor Rating		kW	3	3	3	3	3	3	3	3
Larger Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
Unit Nominal Run Amps		A	159.42	170.78	178.58	184.7	192.5	207.1	207.1	228.74
Recommended Mains Fuse Size		A	200	200	250	200	250	250	250	250
Motor Rating		kW	4	4	4	4	4	4	4	4
Standard Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	6.3	8	8	8	8	11.2	11.2	11.2
Unit Nominal Run Amps		A	156.82	169.88	177.68	183.8	191.6	209.4	209.4	231.04
Recommended Mains Fuse Size		A	200	200	250	200	250	250	250	250
Motor Rating		kW	3	4	4	4	4	5.5	5.5	5.5
Larger Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	8	11.2	11.2	11.2	11.2	11.2	11.2	11.2
Unit Nominal Run Amps		A	158.52	173.08	180.88	187	194.8	209.4	209.4	231.04
Recommended Mains Fuse Size		A	200	200	250	200	250	250	250	250
Motor Rating		kW	4	5.5	5.5	5.5	5.5	5.5	5.5	5.5

(1) Based at 7.2°C Evap / 54.4°C Condensing, EC Fans.

(2) Starting amps refers to the direct on line connections.

Technical Data

Electrical data DCC X Type

	Notes	Units	DCC033DX-08BMM0	DCC036DX-08BMS0	DCC038DX-10BMS0	DCC039DX-08BSS0	DCC042DX-12BSS0	DCC043DX-08BST0	DCC045DX-12BST0	DCC046DX-10BTT0
ELECTRICAL DATA										
Unit Data										
Nominal Run Amps	(1)	A	227.64	243.15	250.95	258.66	275.4	292.26	309	333.66
Maximum Start Amps	(2)	A	498.53	514.04	521.84	480.75	498.25	563.15	579.89	604.55
Recommended Mains Fuse Size		A	250	315	315	315	315	315	355	355
Mains Supply		VAC	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm²	Direct to Bus Bar							
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm²	4 mm² terminals							
Control Circuit		VAC	24V/230VAC							
Evaporator										
External Trace Heating										
Available (fitted by others)		W	500	500	500	500	500	500	500	500
Condenser Fan - Per Fan (EC)										
Quantity			8	8	10	8	12	8	12	10
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor										
Nominal Run Amps		A	49.1 / 49.1	37.9 / 49.1	37.9 / 49.1	37.9 / 37.9	37.9 / 38.3	49.1 / 37.9	49.1 / 38.3	49.1 / 49.1
Quantity			2 + 2	3 + 2	3 + 2	3 + 3	3 + 3	3 + 3	3 + 3	3 + 3
Motor Rating		kW	28.8 / 28.8	22.4 / 28.8	22.4 / 28.8	22.4 / 22.4	22.4 / 24.0	28.8 / 22.4	28.8 / 24.0	28.8 / 28.8
Sump Heater Rating		W	130	130 + 75	130 + 75	75	75	130 + 75	130 + 75	130
Start Amps	(2)	A	320 / 320	260 / 320	260 / 320	260 / 260	260 / 260	320 / 260	320 / 260	320 / 320
Type Of Start			Direct on line							
OPTIONAL EXTRAS										
Power Factor Correction										
Nominal Run Amps		A	206.289	220.995	228.795	235.701	251.301	264.767	280.367	301.634
Maximum Start Amps		A	482.517	497.223	505.023	461.617	477.217	540.995	556.595	577.861
Compressor Nominal Run Amps		A	43.8 / 43.8	34.1 / 43.8	34.1 / 43.8	34.1 / 34.1	34.1 / 34.1	43.8 / 34.1	43.8 / 34.1	43.8 / 43.8
Recommended Mains Fuse Size		A	250	315	315	315	315	315	355	355
Electronic Soft-start										
Nominal Run Amps		A	227.64	243.15	250.95	258.66	275.4	292.26	309	333.66
Maximum Start Amps		A	370.53	386.04	393.84	376.75	394.25	386.04	402.78	476.55
Recommended Mains Fuse		A	250	315	315	315	315	315	355	355
Power Factor Correction & Electronic Soft Start										
Nominal Run Amps		A	206.289	220.995	228.795	235.701	251.301	264.767	280.367	301.634
Maximum Start Amps		A	354.517	369.223	377.023	357.617	373.217	369.223	384.823	449.861
Compressor Nominal Run Amps		A	43.8 / 43.8	34.1 / 43.8	34.1 / 43.8	34.1 / 34.1	34.1 / 34.1	43.8 / 34.1	43.8 / 34.1	43.8 / 43.8
Recommended Mains Fuse Size		A	250	315	315	315	315	315	355	355
Standard Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	6.2	8.9	8.9	12	12	12	12	12
Unit Nominal Run Amps		A	233.84	252.05	259.85	270.66	287.4	304.26	321	345.66
Recommended Mains Fuse Size		A	250	315	315	315	315	355	355	355
Motor Rating		kW	3	4	4	5.5	5.5	5.5	5.5	5.5
Larger Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	8.9	12	12	14	14	14	14	14
Unit Nominal Run Amps		A	236.54	255.15	262.95	272.66	289.4	306.26	323	347.66
Recommended Mains Fuse Size		A	250	315	315	315	315	355	355	355
Motor Rating		kW	4	5.5	5.5	7.5	7.5	7.5	7.5	7.5
Standard Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
Unit Nominal Run Amps		A	238.84	254.35	262.15	269.86	286.6	303.46	320.2	344.86
Recommended Mains Fuse Size		A	250	315	315	315	315	355	355	355
Motor Rating		kW	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Larger Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	11.2	11.2	11.2	11.2	11.2	14.8	14.8	14.8
Unit Nominal Run Amps		A	238.84	254.35	262.15	269.86	286.6	307.06	323.8	348.46
Recommended Mains Fuse Size		A	250	315	315	315	315	355	355	355
Motor Rating		kW	5.5	5.5	5.5	5.5	5.5	7.5	7.5	7.5

(1) Based at 7.2°C Evap / 54.4°C Condensing, EC Fans.

(2) Starting amps refers to the direct on line connections.

Technical Data

Electrical data DCC X Type

	Notes	Units	DCC048DX-12BTT0	DCC051DX-10BVV0
ELECTRICAL DATA				
Unit Data				
Nominal Run Amps	(1)	A	341.46	370.2
Maximum Start Amps	(2)	A	612.35	641
Recommended Mains Fuse Size		A	355	400
Mains Supply		VAC	400 V 3 PH 50 Hz	400V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm ²	Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm ²	4 mm ² terminals	
Control Circuit		VAC	24V/230VAC	
Evaporator				
External Trace Heating Available (fitted by others)		W	500	500
Condenser Fan - Per Fan (EC)				
Quantity			12	10
Full Load Amps		A	3.9	3.9
Locked Rotor Amps		A	N/A	N/A
Motor Rating		kW	2.56	2.56
Compressor - Per Compressor				
Nominal Run Amps		A	49.1 / 49.1	55.2 / 55.2
Quantity			3 + 3	3 + 3
Motor Rating		kW	28.8 / 28.8	33.1 / 33.1
Sump Heater Rating		W	130	140
Start Amps	(2)	A	320 / 320	326 / 326
Type Of Start			Direct on line	
OPTIONAL EXTRAS				
Power Factor Correction				
Nominal Run Amps		A	309.434	340.741
Maximum Start Amps		A	585.661	616.451
Compressor Nominal Run Amps		A	43.8 / 43.8	50.3 / 50.3
Recommended Mains Fuse Size		A	355	400
Electronic Soft-start				
Nominal Run Amps		A	341.46	370.2
Maximum Start Amps		A	484.35	510.6
Recommended Mains Fuse		A	355	400
Power Factor Correction & Electronic Soft Start				
Nominal Run Amps		A	309.434	340.741
Maximum Start Amps		A	457.661	486.051
Compressor Nominal Run Amps		A	43.8 / 43.8	50.3 / 50.3
Recommended Mains Fuse Size		A	355	400
Standard Head Pump (Single or Run/Standby)				
Pump Full Load Amps		A	12	12
Unit Nominal Run Amps		A	353.46	382.2
Recommended Mains Fuse Size		A	355	450
Motor Rating		kW	5.5	5.5
Larger Head Pump (Single or Run/Standby)				
Pump Full Load Amps		A	14	14
Unit Nominal Run Amps		A	355.46	384.2
Recommended Mains Fuse Size		A	355	450
Motor Rating		kW	7.5	7.5
Standard Head Inverter Pump (Single or Run/Standby)				
Pump Full Load Amps		A	11.2	11.2
Unit Nominal Run Amps		A	352.66	381.4
Recommended Mains Fuse Size		A	355	450
Motor Rating		kW	5.5	5.5
Larger Head Inverter Pump (Single or Run/Standby)				
Pump Full Load Amps		A	14.8	14.8
Unit Nominal Run Amps		A	356.26	385
Recommended Mains Fuse Size		A	355	450
Motor Rating		kW	7.5	7.5

(1) Based at 7.2°C Evap / 54.4°C Condensing, EC Fans.

(2) Starting amps refers to the direct on line connections.

Technical Data

Sound Data - DCC

	Sound	Frequency								
		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	Total
		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
DCC011SR-04AK00	Power	85	79	77	87	85	77	73	64	88
	Pressure @10m	53	47	45	55	53	45	41	32	56
DCC014SR-04AL00	Power	84	81	79	87	86	77	72	60	89
	Pressure @10m	52	49	47	55	54	45	40	28	57
DCC017SR-04AM00	Power	81	83	82	94	94	79	72	60	96
	Pressure @10m	51	51	50	62	62	47	39	28	64
DCC021SR-04BS00	Power	80	85	84	89	88	80	75	63	91
	Pressure @10m	55	53	52	57	56	47	43	31	59
DCC023SR-04BT00	Power	76	88	85	96	96	82	74	64	98
	Pressure @10m	61	56	53	64	64	50	42	32	66
DCC024SR-06BT00	Power	83	85	84	96	96	81	73	62	98
	Pressure @10m	53	53	51	64	64	49	41	29	66
DCC011DR-04ACC0	Power	85	79	77	87	85	77	73	64	88
	Pressure @10m	53	47	45	55	53	45	41	32	56
DCC013DR-04ACD0	Power	84	80	78	87	86	77	73	63	89
	Pressure @10m	53	48	46	55	54	45	41	31	56
DCC014DR-04ADD0	Power	84	81	79	87	86	77	72	60	89
	Pressure @10m	52	49	47	55	54	45	40	28	57
DCC015DR-04ADF0	Power	83	82	81	92	92	78	72	60	94
	Pressure @10m	52	50	49	60	60	46	40	28	62
DCC016DR-04AJJ0	Power	83	83	81	80	84	77	73	62	86
	Pressure @10m	52	51	49	48	52	45	41	30	54
DCC018DR-04BJK0	Power	81	85	83	88	87	79	75	66	90
	Pressure @10m	56	53	51	56	55	47	43	34	58
DCC019DR-04AFK0	Power	80	86	84	93	92	80	75	66	94
	Pressure @10m	57	53	51	61	60	48	43	34	62
DCC020DR-06AFK0	Power	86	83	81	93	92	79	74	65	94
	Pressure @10m	54	50	49	60	60	47	42	33	62
DCC021DR-04AKK0	Power	78	87	85	91	89	81	77	68	92
	Pressure @10m	59	55	53	58	57	49	44	36	60
DCC022DR-06AKK0	Power	85	84	82	90	88	80	76	67	92
	Pressure @10m	53	51	50	58	56	48	44	35	59
DCC024DR-04BKL0	Power	78	88	85	91	89	81	76	67	92
	Pressure @10m	60	56	53	58	57	49	44	35	60
DCC025DR-06BKL0	Power	84	85	83	90	89	80	76	66	92
	Pressure @10m	53	52	51	58	57	48	44	34	60
DCC027DR-04BLL0	Power	78	88	85	91	90	81	76	65	93
	Pressure @10m	61	56	53	58	58	49	44	33	60
DCC028DR-06BLL0	Power	83	85	84	90	89	81	76	64	92
	Pressure @10m	54	53	52	58	57	48	43	32	60
DCC030DR-06BLM0	Power	81	87	85	95	95	82	76	64	97
	Pressure @10m	58	55	53	63	63	50	43	32	65
DCC031DR-08BLM0	Power	86	85	84	95	95	81	75	63	97
	Pressure @10m	54	53	51	63	62	49	43	31	64

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 standard unit, for units fitted with optional pump packages please contact Airedale.

Technical Data**Sound Data - DCC**

		Frequency								
	Sound	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	Total
		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
DCC032DR-06BMM0	Power	79	89	87	97	97	83	75	65	99
	Pressure @10m	60	57	54	65	65	50	43	33	67
DCC033DR-08BMM0	Power	84	86	85	97	97	82	75	63	99
	Pressure @10m	54	54	52	65	65	50	42	30	67
DCC036DR-06BMS0	Power	79	89	87	95	95	83	77	66	97
	Pressure @10m	62	57	55	63	63	51	45	34	65
DCC038DR-10BMS0	Power	87	86	84	95	95	82	76	64	97
	Pressure @10m	55	53	52	63	62	49	44	31	65
DCC039DR-06BSS0	Power	80	90	87	92	91	83	78	67	94
	Pressure @10m	63	58	55	60	59	51	46	35	62
DCC042DR-10BSS0	Power	86	87	85	92	91	82	77	65	94
	Pressure @10m	55	54	53	60	58	50	45	33	61
DCC043DR-08BST0	Power	81	90	88	97	97	84	77	67	99
	Pressure @10m	62	58	55	64	64	51	45	34	66
DCC045DR-10BST0	Power	85	88	87	97	97	83	77	66	99
	Pressure @10m	57	56	54	64	64	51	45	33	66
DCC046DR-08BTT0	Power	79	91	88	99	99	85	77	67	101
	Pressure @10m	64	59	56	67	67	52	45	34	69
DCC048DR-10BTT0	Power	83	89	88	99	99	84	77	66	101
	Pressure @10m	58	57	55	66	66	52	44	33	68
DCC051DR-08BVV0	Power	80	91	89	92	93	84	80	83	95
	Pressure @10m	64	59	57	60	60	52	47	50	63

- 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 standard unit, for units fitted with optional pump packages please contact Airedale.

Technical Data

Sound Data - DCC

	Sound	Frequency								
		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	Total
		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
DCC011SX-04AK00	Power	86	79	77	77	79	67	67	57	81
	Pressure @10m	54	47	45	45	47	35	35	25	49
DCC014SX-04AL00	Power	86	79	77	77	81	67	66	53	82
	Pressure @10m	54	47	45	45	49	35	34	21	50
DCC017SX-04AM00	Power	86	79	77	83	89	68	66	52	89
	Pressure @10m	54	47	45	51	56	36	34	20	57
DCC021SX-06BS00	Power	88	81	79	79	83	69	68	55	84
	Pressure @10m	56	49	46	46	50	36	36	23	52
DCC023SX-04BT00	Power	86	79	77	84	90	70	68	53	91
	Pressure @10m	54	47	45	52	58	37	36	21	59
DCC024SX-06BT00	Power	88	81	79	85	90	70	68	54	91
	Pressure @10m	55	49	46	52	58	38	36	21	59
DCC011DX-04ACC0	Power	86	79	77	77	79	67	67	57	81
	Pressure @10m	54	47	45	45	47	35	35	25	49
DCC013DX-04ACD0	Power	86	79	77	77	80	67	67	56	82
	Pressure @10m	54	47	45	45	48	35	35	24	50
DCC014DX-04ADD0	Power	86	79	77	77	81	67	66	53	82
	Pressure @10m	54	47	45	45	49	35	34	21	50
DCC015DX-04ADF0	Power	86	79	77	81	86	68	66	53	87
	Pressure @10m	54	47	45	49	54	36	34	21	55
DCC016DX-04AJJ0	Power	86	80	77	74	78	68	67	54	80
	Pressure @10m	54	47	45	42	46	36	35	22	48
DCC018DX-04BJK0	Power	86	80	77	77	81	68	69	58	82
	Pressure @10m	54	47	45	45	48	36	37	26	50
DCC019DX-04AFK0	Power	86	79	77	81	86	69	68	58	87
	Pressure @10m	54	47	45	49	54	37	36	25	55
DCC020DX-06AFK0	Power	88	81	79	82	86	69	69	58	87
	Pressure @10m	55	49	46	49	54	37	36	25	55
DCC021DX-04AKK0	Power	86	79	77	79	82	69	70	60	84
	Pressure @10m	54	47	45	47	50	37	38	28	52
DCC022DX-06AKK0	Power	88	81	79	79	82	69	70	60	84
	Pressure @10m	55	49	46	47	50	37	38	28	52
DCC024DX-06BKL0	Power	88	81	79	79	83	70	70	59	84
	Pressure @10m	56	49	46	47	51	37	37	26	52
DCC025DX-08BKL0	Power	89	82	80	80	83	70	70	59	85
	Pressure @10m	57	50	47	47	51	38	37	26	52
DCC027DX-06BLL0	Power	88	81	79	80	84	70	69	56	85
	Pressure @10m	56	49	46	47	51	37	37	24	53
DCC028DX-08BLL0	Power	89	82	80	80	84	70	69	56	85
	Pressure @10m	57	50	47	48	51	38	37	24	53

- 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 standard unit, for units fitted with optional pump packages please contact Airedale.

Technical Data

Sound Data - DCC

	Sound	Frequency								
		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	Total
		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
DCC030DX-06BLM0	Power	88	81	79	84	89	70	69	55	90
	Pressure @10m	55	49	46	51	57	38	37	23	58
DCC031DX-08BLM0	Power	89	82	80	84	89	71	69	56	90
	Pressure @10m	57	50	47	51	57	38	37	23	58
DCC032DX-06BMM0	Power	88	81	79	86	92	71	69	54	92
	Pressure @10m	55	49	47	53	59	39	37	22	60
DCC033DX-08BMM0	Power	89	82	80	86	92	71	69	55	92
	Pressure @10m	56	50	48	53	59	39	37	22	60
DCC036DX-08BMS0	Power	89	82	80	84	89	71	70	57	90
	Pressure @10m	57	50	48	52	57	39	38	24	58
DCC038DX-10BMS0	Power	90	83	81	84	89	71	70	57	90
	Pressure @10m	57	51	48	52	57	39	38	24	58
DCC039DX-08BSS0	Power	89	82	80	81	85	71	71	58	87
	Pressure @10m	57	50	47	49	53	39	38	25	54
DCC042DX-12BSS0	Power	91	84	82	82	86	72	71	58	87
	Pressure @10m	58	52	49	49	53	39	38	25	54
DCC043DX-08BST0	Power	89	82	80	85	91	72	71	57	92
	Pressure @10m	57	50	48	53	59	40	38	25	59
DCC045DX-12BST0	Power	91	84	82	86	91	72	71	57	92
	Pressure @10m	58	52	49	53	58	40	38	25	59
DCC046DX-10BTT0	Power	90	83	81	88	93	73	71	56	94
	Pressure @10m	57	51	48	55	61	40	38	24	61
DCC048DX-12BTT0	Power	91	84	82	88	93	73	71	57	94
	Pressure @10m	58	52	49	55	61	40	38	24	61
DCC051DX-10BVV0	Power	90	85	84	83	87	73	73	75	89
	Pressure @10m	57	52	52	50	55	40	40	43	56

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 standard unit, for units fitted with optional pump packages please contact Airedale.

DeltaChill Free Cool

Cooling Performance Free Cool

The Freecool potential of the DeltaChill can be determined by the temperature difference of the ambient air and the return water temperatures. The graphs show a temperature difference and therefore changing Freecool ability. The cooling capacity is derived by multiplying the total number of fans on the unit by the values of flowrate and capacity.

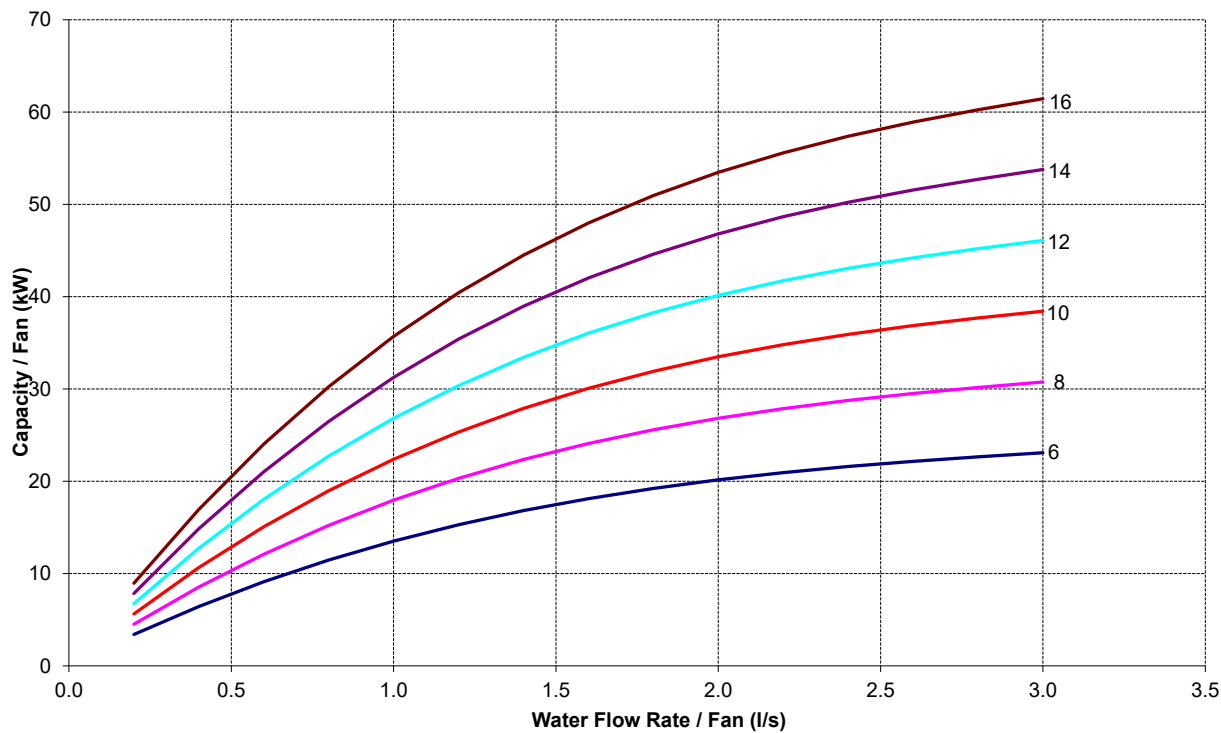
Example:
Return water temperature 15°C
Temperature difference from ambient to return water temperature 10°C
Therefore ambient 5°C

DCF014SR-04AL00 chiller having 4 fans equates to

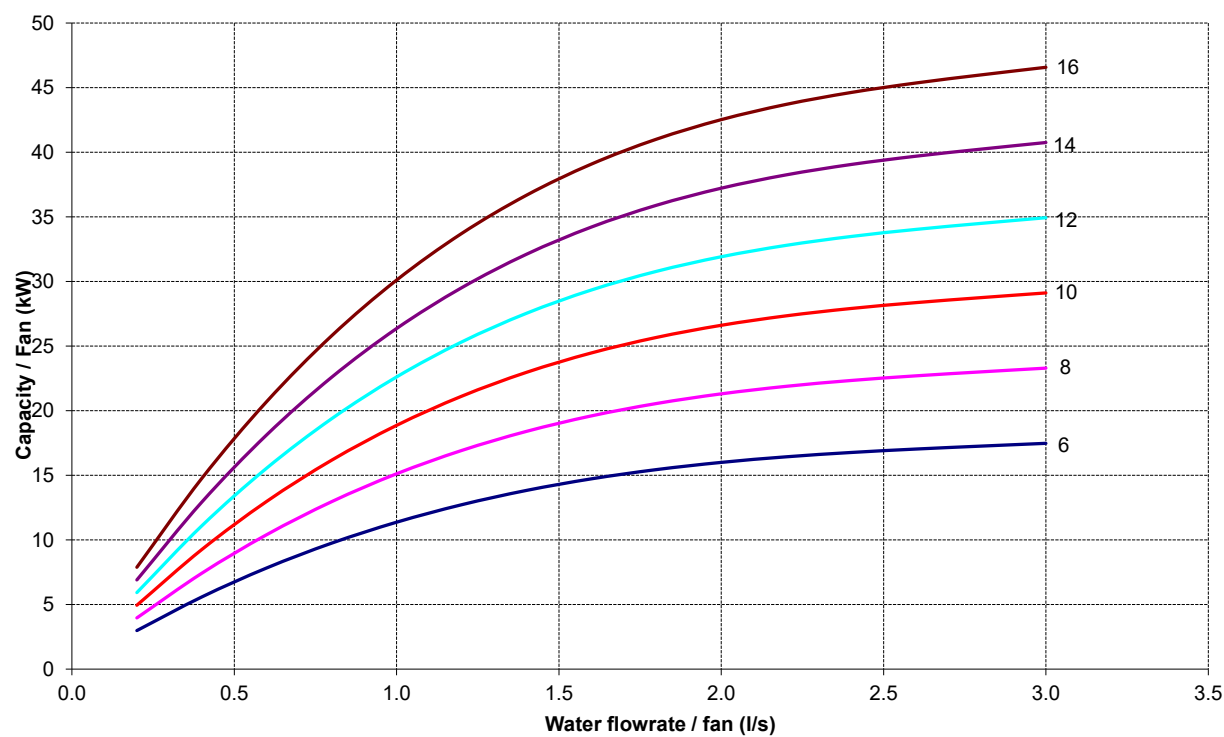
Cooling capacity	35kW x 4	=	140kW*
Flowrate	2 l/s x 4	=	8 l/s*

*Exact cooling capacity and water flowrate may change for unit given above.

EC Fans Regular Quiet (R type)



EC Fans Regular Quiet (R type)



Technical

Technical Data

Mechanical Cooling Performance DCF R Type

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCF014SR-04AL00	6	144.1	33.5	136.9	37.0	129.1	40.8	120.8	44.9
	7	148.6	33.6	141.2	37.2	133.2	41.0	124.6	45.2
	8	153.2	33.8	145.6	37.4	137.3	41.2	128.5	45.4
	10	162.6	34.1	154.6	37.8	145.8	41.7	136.5	46.0
	12	172.3	34.4	163.8	38.1	154.6	42.1	144.8	46.5
	14	182.3	34.7	173.4	38.5	163.7	42.6	153.3	47.0
DCF017SR-04AM00	6	178.6	45.3	169.6	49.6	159.9	54.3	149.5	59.4
	7	184.2	45.6	175.0	50.0	164.9	54.7	154.0	59.8
	8	189.9	45.9	180.4	50.3	170.0	55.1	158.8	60.2
	10	201.5	46.4	191.5	51.0	180.3	55.8	168.9	61.1
	12	213.6	46.9	202.7	51.5	191.5	56.6	179.1	62.0
	14	226.0	47.3	214.6	52.2	202.6	57.3	189.8	62.8
DCF021SR-04BS00	6	206.2	54.0	196.0	59.4	184.8	65.4	172.7	72.0
	7	212.5	54.4	202.1	59.9	190.5	65.9	178.0	72.5
	8	219.2	54.8	208.2	60.3	196.3	66.3	183.5	72.9
	10	232.2	55.5	220.8	61.1	208.2	67.3	194.7	73.9
	12	245.8	56.2	233.8	61.9	220.5	68.2	206.4	74.9
	14	259.9	56.9	247.2	62.7	233.3	69.1	217.9	75.7
DCF025SR-06BT00	6	263.1	68.8	249.7	75.4	235.2	82.5	219.8	90.2
	7	271.2	69.3	257.5	75.9	242.6	83.1	226.4	90.8
	8	279.5	69.7	265.4	76.4	250.0	83.7	233.4	91.4
	10	296.5	70.5	281.6	77.4	265.0	84.7	247.9	92.7
	12	314.1	71.3	298.0	78.3	281.3	86.0	263.0	94.0
	14	332.3	72.0	315.8	79.3	297.6	87.0	278.6	95.3
DCF013DR-04ACD0	6	133.5	30.1	126.8	33.3	119.7	36.8	111.9	40.6
	7	137.7	30.2	130.8	33.5	123.5	37.0	115.5	40.8
	8	141.9	30.3	134.9	33.6	127.3	37.2	119.1	41.0
	10	150.7	30.5	143.3	33.9	135.2	37.5	126.6	41.4
	12	159.7	30.7	151.9	34.2	143.4	37.9	134.3	41.8
	14	169.0	30.8	160.9	34.4	151.9	38.2	142.4	42.2

- 1 Output kW refers to the chilled water duty.
- 2 Input kW refers to the unit input power (compressor + fans).
- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data

Mechanical Cooling Performance DCF R Type

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCF014DR-04ADD0	6	144.6	33.3	137.4	36.7	129.6	40.5	121.3	44.7
	7	149.1	33.4	141.7	36.9	133.7	40.8	125.1	44.9
	8	153.7	33.6	146.1	37.1	137.9	41.0	129.0	45.2
	10	163.1	33.9	155.1	37.5	146.4	41.4	137.1	45.7
	12	172.8	34.2	164.4	37.9	155.2	41.9	145.4	46.2
	14	182.9	34.5	174.0	38.3	164.3	42.3	154.0	46.7
DCF015DR-04ADF0	6	162.6	39.4	154.4	43.3	145.5	47.5	136.0	52.2
	7	167.7	39.6	159.3	43.6	150.1	47.9	140.2	52.5
	8	172.8	39.8	164.2	43.8	154.8	48.2	144.7	52.8
	10	183.5	40.3	174.3	44.4	164.3	48.8	153.7	53.5
	12	194.4	40.6	184.6	44.8	174.2	49.4	163.1	54.2
	14	205.7	41.0	195.5	45.3	184.5	49.9	172.8	54.9
DCF016DR-04AJJ0	6	173.8	42.1	164.9	46.6	155.2	51.4	144.7	56.6
	7	179.2	42.3	170.1	46.8	160.1	51.7	149.1	56.8
	8	184.8	42.5	175.4	47.1	165.1	52.0	153.9	57.1
	10	196.2	42.9	186.3	47.5	175.5	52.5	163.7	57.8
	12	208.0	43.2	197.6	48.0	186.0	53.0	173.9	58.4
	14	220.1	43.5	208.9	48.3	197.1	53.5	184.4	59.0
DCF018DR-04BJK0	6	200.8	51.7	190.7	57.0	179.5	62.7	167.4	68.9
	7	207.0	52.0	196.6	57.3	185.1	63.1	172.5	69.3
	8	213.3	52.3	202.6	57.7	190.8	63.5	177.6	69.6
	10	226.3	52.8	215.0	58.4	202.2	64.2	188.5	70.4
	12	239.7	53.3	227.8	59.0	214.2	64.9	199.5	71.2
	14	253.5	53.8	240.7	59.6	226.3	65.6	211.0	72.0
DCF020DR-06BFK0	6	209.5	49.5	199.0	54.7	187.7	60.2	175.6	66.1
	7	216.1	49.8	205.3	55.0	193.6	60.5	181.2	66.5
	8	222.7	50.0	211.7	55.2	199.7	60.8	186.8	66.9
	10	236.4	50.3	224.7	55.8	212.1	61.5	198.5	67.7
	12	250.5	50.6	238.2	56.2	224.9	62.1	210.6	68.4
	14	265.1	50.9	252.2	56.7	238.1	62.7	223.1	69.1
DCF023DR-06BKK0	6	233.9	56.5	222.3	62.4	209.6	68.9	196.1	75.9
	7	241.1	56.8	229.2	62.8	216.2	69.3	202.2	76.3
	8	248.5	57.0	236.2	63.1	222.9	69.6	208.5	76.7
	10	263.6	57.4	250.7	63.7	236.6	70.4	221.4	77.6
	12	279.3	57.8	265.7	64.3	250.7	71.1	234.7	78.4
	14	295.4	58.1	281.1	64.8	265.4	71.8	248.6	79.3

- 1 Output kW refers to the chilled water duty.
- 2 Input kW refers to the unit input power (compressor + fans).
- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data

Mechanical Cooling Performance DCF R Type

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCF026DR-06BKL0	6	260.2	63.6	247.2	70.1	232.7	77.2	217.4	85.0
	7	268.3	63.9	254.8	70.5	240.0	77.7	224.3	85.6
	8	276.5	64.2	262.6	71.0	247.5	78.2	231.2	86.1
	10	293.2	64.9	278.5	71.7	262.6	79.1	245.5	87.2
	12	310.6	65.5	295.1	72.5	278.3	80.1	260.4	88.2
	14	328.2	66.0	312.2	73.2	294.6	80.9	275.5	89.2
DCF029DR-06BLL0	6	281.4	70.4	267.3	77.6	251.5	85.3	235.0	93.9
	7	290.0	70.9	275.5	78.1	259.3	85.9	242.4	94.5
	8	298.8	71.3	283.9	78.6	267.5	86.5	249.9	95.2
	10	316.8	72.2	300.7	79.5	283.6	87.6	265.3	96.4
	12	335.4	73.0	318.5	80.5	300.6	88.7	281.3	97.7
	14	354.2	73.7	337.0	81.5	318.0	89.9	297.8	98.9
DCF032DR-08BLM0	6	322.7	78.8	306.5	86.6	289.0	95.1	269.9	104.2
	7	332.7	79.2	316.0	87.1	298.0	95.7	278.5	104.9
	8	342.9	79.7	325.8	87.7	306.9	96.2	287.4	105.7
	10	363.8	80.5	345.8	88.7	326.1	97.5	305.0	107.0
	12	385.4	81.3	366.4	89.7	345.5	98.7	323.5	108.4
	14	407.7	82.0	387.7	90.7	365.8	99.8	342.7	109.7
DCF035DR-08BMM0	6	354.8	90.5	337.1	99.1	317.8	108.5	296.8	118.5
	7	365.9	91.1	347.6	99.8	327.7	109.3	306.1	119.4
	8	377.1	91.6	358.2	100.5	337.2	109.8	316.1	120.4
	10	400.0	92.7	380.2	101.8	358.6	111.6	335.3	122.0
	12	423.8	93.7	402.9	103.1	379.7	113.0	355.7	123.7
	14	448.3	94.5	426.3	104.3	402.1	114.4	376.9	125.4
DCF039DR-10BMS0	6	395.8	95.6	375.9	105.2	354.3	115.7	331.1	127.0
	7	408.1	96.2	387.6	105.9	365.3	116.4	341.2	127.7
	8	420.6	96.7	399.5	106.5	376.7	117.1	352.2	128.6
	10	446.3	97.6	424.1	107.7	399.9	118.6	373.8	130.2
	12	472.9	98.5	449.5	108.9	423.6	119.9	396.6	131.8
	14	500.3	99.3	475.7	110.0	448.9	121.3	420.1	133.4
DCF044DR-10BSS0	6	424.7	103.8	403.4	114.5	380.2	126.1	355.2	138.8
	7	437.8	104.4	415.9	115.2	392.0	126.9	365.6	139.4
	8	451.2	105.0	428.6	115.9	404.0	127.7	377.6	140.6
	10	478.6	106.2	454.8	117.3	428.8	129.2	400.4	142.1
	12	506.8	107.3	481.8	118.6	453.6	130.6	424.6	143.9
	14	535.9	108.4	509.6	119.9	480.8	132.3	449.7	145.7

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- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data

Mechanical Cooling Performance DCF X Type

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCF014SX-04AL00	6	143.1	33.3	135.4	36.8	127.2	40.5	118.4	44.6
	7	147.5	33.5	139.5	37.0	131.0	40.7	122.0	44.9
	8	151.9	33.7	143.7	37.2	134.9	41.0	125.6	45.1
	10	160.8	34.0	152.2	37.6	142.9	41.4	133.1	45.6
	12	170.1	34.3	160.9	38.0	151.2	41.9	140.8	46.2
	14	179.6	34.6	169.9	38.3	159.6	42.4	148.7	46.7
DCF017SX-04AM00	6	174.8	45.2	165.0	49.5	154.5	54.1	143.0	59.3
	7	180.0	45.5	169.8	49.9	159.1	54.6	147.7	59.6
	8	185.2	45.9	174.8	50.3	163.7	55.0	152.0	60.1
	10	196.0	46.5	184.9	51.0	173.2	55.8	160.8	61.0
	12	206.9	47.1	195.2	51.8	182.9	56.7	169.9	62.0
	14	218.2	47.7	205.9	52.5	192.8	57.5	179.2	62.9
DCF021SX-06BS00	6	211.5	50.0	200.2	55.2	188.1	60.8	175.2	66.9
	7	217.8	50.3	206.2	55.5	193.8	61.1	180.5	67.3
	8	224.3	50.5	212.3	55.8	199.5	61.5	185.8	67.7
	10	237.5	51.0	224.8	56.4	211.2	62.2	196.8	68.5
	12	251.0	51.4	237.7	56.9	223.4	62.8	208.1	69.2
	14	265.0	51.9	250.9	57.5	235.8	63.5	219.8	70.0
DCF025SX-06BT00	6	257.5	68.7	242.8	75.2	227.3	82.2	210.9	89.9
	7	265.0	69.2	250.0	75.7	234.0	82.8	217.1	90.5
	8	272.7	69.7	257.2	76.3	240.7	83.5	223.4	91.2
	10	288.4	70.6	272.0	77.4	254.5	84.7	236.2	92.6
	12	304.5	71.6	287.1	78.6	268.7	86.0	249.4	94.0
	14	321.0	72.5	302.6	79.7	283.3	87.3	263.0	95.5
DCF013DX-04ACD0	6	133.0	30.0	126.0	33.2	118.4	36.6	110.4	40.3
	7	137.1	30.1	129.8	33.3	122.1	36.8	113.8	40.5
	8	141.2	30.2	133.8	33.5	125.8	37.0	117.2	40.7
	10	149.6	30.4	141.8	33.7	133.3	37.3	124.3	41.1
	12	158.3	30.6	150.0	34.0	141.1	37.7	131.6	41.6
	14	167.2	30.7	158.5	34.2	149.1	38.0	139.1	42.0
DCF014DX-04ADD0	6	143.6	33.1	135.9	36.6	127.7	40.3	119.0	44.3
	7	147.9	33.3	140.0	36.8	131.6	40.5	122.6	44.6
	8	152.3	33.5	144.2	37.0	135.5	40.7	126.2	44.9
	10	161.4	33.8	152.7	37.3	143.5	41.2	133.7	45.4
	12	170.6	34.1	161.5	37.7	151.8	41.7	141.5	45.9
	14	180.1	34.3	170.5	38.1	160.3	42.1	149.4	46.4

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- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data

Mechanical Cooling Performance DCF X Type

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCF015DX-04ADF0	6	160.1	39.3	151.2	43.1	141.8	47.3	131.8	51.9
	7	164.9	39.5	155.8	43.4	146.0	47.7	135.8	52.3
	8	169.8	39.8	160.4	43.7	150.4	48.0	139.8	52.6
	10	179.7	40.2	169.7	44.3	159.2	48.6	148.0	53.3
	12	189.9	40.7	179.4	44.9	168.2	49.3	156.4	54.1
	14	200.3	41.1	189.2	45.4	177.5	50.0	165.1	54.8
DCF016DX-04AJJ0	6	170.3	42.1	160.6	46.5	150.2	51.2	139.1	56.3
	7	175.4	42.3	165.4	46.8	154.7	51.5	143.3	56.7
	8	180.6	42.5	170.3	47.0	159.3	51.9	147.6	57.0
	10	191.2	43.0	180.3	47.6	168.6	52.5	156.3	57.7
	12	202.1	43.4	190.5	48.1	178.3	53.1	165.3	58.4
	14	213.2	43.8	201.1	48.6	188.2	53.7	174.6	59.1
DCF018DX-04BJK0	6	193.8	52.2	182.3	57.5	170.0	63.2	157.1	69.5
	7	199.4	52.5	187.5	57.9	174.9	63.7	161.6	70.0
	8	205.0	52.9	192.8	58.3	179.9	64.2	166.2	70.5
	10	216.6	53.7	203.7	59.2	190.0	65.1	175.6	71.5
	12	228.4	54.4	214.8	60.1	200.4	66.1	185.2	72.5
	14	240.5	55.2	226.1	60.9	211.0	67.1	195.1	73.6
DCF020DX-06BFK0	6	208.1	49.4	197.0	54.5	185.0	59.9	172.4	65.7
	7	214.4	49.7	202.9	54.8	190.6	60.2	177.6	66.1
	8	220.8	49.9	209.0	55.0	196.3	60.6	182.9	66.5
	10	233.9	50.2	221.4	55.6	208.0	61.2	193.8	67.3
	12	247.3	50.6	234.1	56.1	220.0	61.9	205.1	68.1
	14	261.1	50.9	247.2	56.5	232.4	62.5	216.7	68.8
DCF023DX-06BKK0	6	231.1	56.3	218.5	62.2	205.0	68.5	190.7	75.4
	7	237.9	56.6	225.0	62.5	211.1	68.9	196.4	75.9
	8	244.9	56.8	231.6	62.9	217.3	69.3	202.2	76.3
	10	259.2	57.3	245.1	63.5	230.0	70.1	214.0	77.2
	12	273.9	57.8	259.0	64.2	243.1	70.9	226.2	78.1
	14	289.0	58.2	273.3	64.8	256.5	71.7	238.7	79.0
DCF026DX-08BKL0	6	264.5	60.3	250.6	66.7	235.5	73.5	219.5	80.9
	7	272.7	60.6	258.2	67.0	242.7	73.9	226.2	81.4
	8	280.8	60.8	265.9	67.3	250.0	74.2	233.0	81.8
	10	297.5	61.2	281.8	67.8	264.9	75.0	247.0	82.6
	12	314.7	61.5	298.1	68.4	280.3	75.7	261.4	83.5
	14	332.3	61.8	314.8	68.9	296.1	76.3	276.2	84.3

- 1 Output kW refers to the chilled water duty.
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- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data

Mechanical Cooling Performance DCF X Type

Model	Supply Temp °C	Ambient (°C)							
		25		30		35		40	
		Output kW	Input kW	Output kW	Input kW	Output kW	Input kW	Output kW	Input kW
DCF029DX-08BLL0	6	285.4	66.6	270.1	73.5	253.7	81.0	236.2	89.2
	7	294.0	67.0	278.2	73.9	261.3	81.4	243.3	89.7
	8	302.7	67.3	286.4	74.3	269.1	81.9	250.6	90.2
	10	320.5	67.9	303.3	75.1	284.9	82.8	265.4	91.2
	12	338.8	68.5	320.7	75.9	301.3	83.8	280.7	92.3
	14	357.6	69.1	338.5	76.6	318.0	84.7	296.4	93.3
DCF032DX-08BLM0	6	317.9	78.5	299.7	86.4	281.7	94.6	261.9	103.8
	7	327.4	79.0	309.3	86.8	290.1	95.3	269.7	104.5
	8	337.0	79.5	318.4	87.4	298.6	95.9	277.6	105.2
	10	356.6	80.4	336.9	88.5	315.9	97.2	293.8	106.6
	12	376.7	81.3	355.9	89.7	333.8	98.5	310.5	108.1
	14	397.3	82.2	375.4	90.8	352.1	99.9	327.6	109.6
DCF035DX-08BMM0	6	347.4	90.3	326.6	99.1	307.3	108.1	285.5	118.2
	7	357.6	90.9	337.6	99.6	316.3	109.0	293.9	119.1
	8	368.0	91.6	347.4	100.4	325.5	109.8	302.4	120.0
	10	389.2	92.8	367.3	101.8	344.2	111.5	319.8	121.9
	12	410.9	94.0	387.8	103.3	363.4	113.2	337.7	123.7
	14	433.1	95.2	408.8	104.8	383.1	114.9	356.1	125.6
DCF039DX-10BMS0	6	390.1	95.4	368.5	104.9	345.6	115.1	321.3	126.3
	7	401.7	96.0	379.5	105.6	355.9	115.9	330.9	127.2
	8	413.5	96.5	390.7	106.2	366.4	116.7	340.6	128.0
	10	437.7	97.6	413.5	107.6	387.8	118.2	360.6	129.7
	12	462.4	98.7	436.9	108.9	409.8	119.8	381.1	131.5
	14	487.8	99.7	460.9	110.2	432.3	121.3	402.2	133.2
DCF044DX-12BSS0	6	427.3	100.2	404.3	110.5	379.7	121.7	353.4	134.0
	7	440.2	100.7	416.5	111.1	391.1	122.4	364.1	134.8
	8	453.3	101.2	428.9	111.7	402.8	123.1	375.0	135.6
	10	480.0	102.1	454.2	112.9	426.6	124.5	397.2	137.2
	12	507.4	103.0	480.2	114.1	451.0	125.9	420.1	138.7
	14	535.6	103.9	506.9	115.2	476.2	127.3	443.6	140.3

- 1 Output kW refers to the chilled water duty.
- 2 Input kW refers to the unit input power (compressor + fans).
- 3 Duties applicable for chilled water ΔT between 4 and 8°C.
- 4 Interpolate for water temperatures between those quoted, do not extrapolate.
- 5 Water flow rate (l/s) = Output $\div$ (Cp $\times$ ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data

Mechanical Data DCF R Type

	Notes	Units	DCF014SR-04AL00	DCF017SR-04AM00	DCF021SR-04BS00	DCF025SR-06BT00	DCF013DR-04ACD0	DCF014DR-04ADD0	DCF015DR-04ADF0	DCF016DR-04AJ00
Number of Refrigeration Circuits			1	1	1	1	2	2	2	2
Cooling Duty - EC Fans	(1)	kW	145.9	179.9	208.4	264.3	135.3	146.5	164.1	174.9
Nominal Input - Mechanical		kW	41.8	54.9	67.3	83.5	37.6	41.6	48.4	52.9
EER	(2)		3.49	3.27	3.10	3.17	3.60	3.53	3.39	3.31
ESEER	(3)		4.50	4.27	4.48	4.57	4.42	4.18	4.23	4.55
Nominal Output - Free Cooling	(4)	kW	154.12	168.10	176.13	250.27	148.50	154.38	162.28	166.40
Ambient temperature for 100% Free Cooling	(5)		3.60	2.10	0.80	2.30	4.00	3.60	2.80	2.30
Capacity Steps		%	55-100	55-100	40-70-100	40-70-100	45-100	50-100	45-100	25-55-75-100
Minimum Turndown Ratio			0.54	0.55	0.38	0.38	0.46	0.50	0.45	0.27
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554	2645 x 2200 x 3690	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554
Mass										
Machine	(6)	kg	1905	2030	2105	2925	1915	1915	1990	2030
Operating		kg	2060	2190	2275	3210	2075	2075	2150	2190
Construction - Material / Colour		kg	Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)							
Evaporator			Braze Plate							
Insulation			Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Water Volume (Total Internal)		l	13.2	16.2	20.3	25.7	13.2	13.2	16.4	16.4
Maximum Waterflow		l/s	9.9	11.4	13.6	16.8	9.0	10.0	10.7	11.1
Condenser			Epoxy Coated Aluminium Microchannel & Aluminium Fins							
Face Area (Total)		m ²	9.5	9.5	9.5	14.3	9.5	9.5	9.5	9.5
Nominal Airflow		m ³ /s	23.5	23.5	23.5	35.3	23.5	23.5	23.5	23.5
Condenser Fan & Motor			Sickle Bladed Fan							
Quantity			4	4	4	6	4	4	4	4
Diameter		mm	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1032	1032	1032	1032	1032	1032	1032	1032
Compressor			Tandem	Tandem	Trio	Trio	Single + Single	Single + Single	Single + Single	Tandem + Tandem
Quantity of Compressors			2	2	3	3	2	2	2	4
Oil Charge Volume (Total)		l	2 x 6.7	2 x 7.2	3 x 6.7	3 x 7.2	1 x 6.7 + 1 x 6.7	1 x 6.7 + 1 x 6.7	1 x 6.7 + 1 x 7.2	2 x 3.6 + 2 x 3.6
Oil Type			Polyol Ester							
Refrigeration			Electronic Expansion Valve (EEV)							
Refrigerant Control			R410A							
Refrigerant Precharged Charge (Total)		kg	30.00	31.00	33.00	49.00	15 + 15	15 + 15	15 + 16	15 + 16
Connections			Grooved Terminations							
Water Inlet / Outlet - Unit			DN80	DN80	DN80	DN100	DN80	DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Water System										
Minimum System Water Volume		l	1438	1785	1450	1836	1126	1329	1347	868
Maximum System Operating Pressure		Bar	10	10	10	10	10	10	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 100% water.

All performance data is supplied in accordance with BS EN 14511-1:2013

(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

Technical Data

Mechanical Data DCF R Type

	Notes	Units	DCF018DR-04BJK0	DCF020DR-06BFFK0	DCF023DR-06BKK0	DCF026DR-06BKL0	DCF029DR-06BLL0	DCF032DR-08BLM0	DCF035DR-08BMM0	DCF039DR-10BMS0
Number of Refrigeration Circuits			2	2	2	2	2	2	2	2
Cooling Duty - EC Fans	(1)	kW	202.4	211.8	236.7	262.9	284.1	325.5	357.2	399.4
Nominal Input - Mechanical		kW	64.5	61.1	70.5	79.3	87.8	96.7	109.7	117.7
EER	(2)		3.14	3.47	3.36	3.32	3.24	3.37	3.26	3.39
ESEER	(3)		4.47	4.39	4.57	4.59	4.44	4.65	4.45	4.71
Nominal Output - Free Cooling	(4)	kW	174.68	227.53	239.48	249.78	256.65	323.49	335.34	401.23
Ambient temperature for 100% Free Cooling	(5)		1.00	3.80	3.10	2.30	1.70	2.90	2.20	3.00
Capacity Steps		%	25-55-75-100	45-75-100	25-55-75-100	25-55-75-100	25-55-75-100	25-55-75-100	25-55-75-100	25-45-65-85-100
Minimum Turndown Ratio			0.24	0.44	0.27	0.25	0.27	0.24	0.27	0.25
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2645 x 2200 x 3690	2645 x 2200 x 3690	2645 x 2200 x 3690	2645 x 2200 x 3690	2645 x 2200 x 4820	2645 x 2200 x 4820	2645 x 2200 x 5956
Mass										
Machine	(6)	kg	2150	2750	2820	2935	2945	3630	3745	4410
Operating		kg	2320	2990	3060	3225	3240	4015	4130	4895
Construction - Material / Colour		kg	Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)							
Evaporator			Braze Plate							
Insulation			Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Water Volume (Total Internal)		l	22.5	22.5	22.5	30.6	30.6	36.9	36.9	54.0
Maximum Waterflow		l/s	12.7	13.7	15.3	17.2	18.8	21.3	22.6	26.2
Condenser			Epoxy Coated Aluminium Microchannel & Aluminium Fins							
Face Area (Total)		m ²	9.5	14.3	14.3	14.3	14.3	19.0	19.0	23.8
Nominal Airflow		m ³ /s	23.5	35.3	35.3	35.3	35.3	47.0	47.0	58.8
Condenser Fan & Motor			Sickle Bladed Fan							
Quantity			4	6	6	6	6	8	8	10
Diameter		mm	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1032	1032	1032	1032	1032	1032	1032	1032
Compressor			Tandem + Tandem	Single + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Trio
Quantity of Compressors			4	3	4	4	4	4	4	5
Oil Charge Volume (Total)		l	2 x 3.6 + 2 x 6.7	1 x 7.2 + 2 x 6.7	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 7.2	2 x 7.2 + 2 x 7.2	2 x 7.2 + 3 x 6.7
Oil Type			Polyol Ester							
Refrigeration			Electronic Expansion Valve (EEV)							
Refrigerant Control			R410A							
Refrigerant Precharged Charge (Total)		kg	17 + 18	23 + 24	23 + 24	24 + 27	25 + 27	32 + 34	32 + 34	43 + 45
Connections			Grooved Terminations							
Water Inlet / Outlet - Unit			DN80	DN80	DN80	DN100	DN100	DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Water System										
Minimum System Water Volume		l	872	1695	1174	1189	1413	1444	1778	1816
Maximum System Operating Pressure		Bar	10	10	10	10	10	10	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 100% water.

All performance data is supplied in accordance with BS EN 14511-1:2013

(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

Technical Data

Mechanical Data DCF R Type, X Type

	Notes	Units	DCF044DR-10BSS0	DCF014SX-04AL00	DCF017SX-04AM00	DCF021SX-06BS00	DCF025SX-06BT00	DCF013DX-04ACD0	DCF014DX-04ADD0	DCF015DX-04ADF0
Number of Refrigeration Circuits			2	1	1	1	1	2	2	2
Cooling Duty - EC Fans	(1)	kW	429.2	144.9	175.3	214.1	257.6	134.8	145.5	161.3
Nominal Input - Mechanical		kW	129.5	41.6	54.5	62.4	82.8	37.5	41.4	48.1
EER	(2)		3.31	3.48	3.22	3.43	3.11	3.59	3.52	3.36
ESEER	(3)		4.81	4.50	4.26	4.81	4.57	4.42	4.18	4.22
Nominal Output - Free Cooling	(4)	kW	413.03	127.89	136.62	190.65	203.70	124.00	128.10	133.09
Ambient temperature for 100% Free Cooling	(5)		2.50	1.40	-0.40	1.50	-0.20	1.90	1.30	0.40
Capacity Steps		%	20-40-55-70-85-100	55-100	55-100	40-70-100	40-75-100	45-100	50-100	45-100
Minimum Turndown Ratio			0.19	0.55	0.56	0.38	0.39	0.46	0.50	0.46
Dimensions (H x W x L)		mm	2645 x 2200 x 5956	2635 x 2200 x 2554	2635 x 2200 x 2554	2645 x 2200 x 3690	2645 x 2200 x 3690	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554
Mass										
Machine	(6)	kg	4430	1985	2115	2775	3040	2040	2045	2115
Operating		kg	4915	2145	2275	3015	3325	2200	2200	2275
Construction - Material / Colour		kg	Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)							
Evaporator			Braze Plate							
Insulation			Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Water Volume (Total Internal)		l	54.0	13.2	16.2	20.3	25.7	13.2	13.2	16.4
Maximum Waterflow		l/s	28.7	9.6	11.0	14.2	16.2	8.8	9.7	10.4
Condenser			Epoxy Coated Aluminium Microchannel & Aluminium Fins							
Face Area (Total)		m ²	23.8	9.5	9.5	14.3	14.3	9.5	9.5	9.5
Nominal Airflow		m ³ /s	58.8	14.4	14.4	21.5	21.5	14.4	14.4	14.4
Condenser Fan & Motor			Sickle Bladed Fan							
Quantity			10	4	4	6	6	4	4	4
Diameter		mm	800	800	800	800	800	800	800	800
Maximum Speed		rpm	1032	657	657	657	657	657	657	657
Compressor			Trio + Trio	Tandem	Tandem	Trio	Trio	Single + Single	Single + Single	Single + Single
Quantity of Compressors			6	2	2	3	3	2	2	2
Oil Charge Volume (Total)		l	3 x 6.7 + 3 x 6.7	2 x 6.7	2 x 7.2	3 x 6.7	3 x 7.2	1 x 6.7 + 1 x 6.7	1 x 6.7 + 1 x 6.7	1 x 6.7 + 1 x 7.2
Oil Type			Polyol Ester							
Refrigeration			Electronic Expansion Valve (EEV)							
Refrigerant Control			R410A							
Refrigerant Precharged Charge (Total)		kg	43 + 45	30.00	31.00	45.00	49.00	15 + 15	15 + 15	15 + 16
Connections			Grooved Terminations							
Water Inlet / Outlet - Unit			DN100	DN80	DN80	DN80	DN100	DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Water System										
Minimum System Water Volume		l	1471	1438	1783	1476	1836	1126	1320	1337
Maximum System Operating Pressure		Bar	10	10	10	10	10	10	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 100% water.

All performance data is supplied in accordance with BS EN 14511-1:2013

(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

Technical Data

Mechanical Data DCF X Type

	Notes	Units	DCF016DX-04AJJ0	DCF018DX-04BJK0	DCF020DX-06BFFK0	DCF023DX-06BKK0	DCF026DX-08BKL0	DCF029DX-08BLL0	DCF032DX-08BLM0	DCF035DX-08BMM0
Number of Refrigeration Circuits			2	2	2	2	2	2	2	2
Cooling Duty - EC Fans	(1)	kW	170.9	193.8	210.2	233.6	267.9	288.9	320.1	348.4
Nominal Input - Mechanical		kW	52.5	64.5	60.9	70.0	75.4	83.1	96.1	108.9
EER	(2)		3.25	3.01	3.45	3.33	3.55	3.47	3.33	3.20
ESEER	(3)		4.54	4.47	4.39	4.57	4.84	4.69	4.65	4.44
Nominal Output - Free Cooling	(4)	kW	135.59	140.15	189.16	197.18	247.29	255.42	265.48	272.73
Ambient temperature for 100% Free Cooling	(5)		-0.20	-1.60	1.60	0.70	1.90	1.40	0.50	-0.40
Capacity Steps		%	30-55-80-100	25-55-75-100	45-75-100	30-55-80-100	25-55-75-100	25-55-75-100	25-55-75-100	30-55-80-100
Minimum Turndown Ratio			0.28	0.25	0.44	0.28	0.25	0.27	0.25	0.28
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2645 x 2200 x 3690	2645 x 2200 x 3690	2645 x 2200 x 4820	2645 x 2200 x 4820	2645 x 2200 x 4820	2645 x 2200 x 4820
Mass										
Machine	(6)	kg	2155	2275	2905	2980	3675	3690	3830	3945
Operating		kg	2320	2445	3145	3225	4050	4065	4215	4330
Construction - Material / Colour		kg	Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)							
Evaporator			Braze Plate							
Insulation			Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
Water Volume (Total Internal)		l	16.4	22.5	22.5	22.5	30.6	30.6	36.9	36.9
Maximum Waterflow		l/s	10.8	12.2	13.3	14.8	17.5	19.2	20.6	21.8
Condenser			Epoxy Coated Aluminium Microchannel & Aluminium Fins							
Face Area (Total)		m ²	9.5	9.5	14.3	14.3	19.0	19.0	19.0	19.0
Nominal Airflow		m ³ /s	14.4	14.4	21.5	21.5	28.7	28.7	28.7	28.7
Condenser Fan & Motor			Sickle Bladed Fan							
Quantity			4	4	6	6	8	8	8	8
Diameter		mm	800	800	800	800	800	800	800	800
Maximum Speed		rpm	657	657	657	657	657	657	657	657
Compressor			Tandem + Tandem	Tandem + Tandem	Single + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			4	4	3	4	4	4	4	4
Oil Charge Volume (Total)		l	2 x 3.6 + 2 x 3.6	2 x 3.6 + 2 x 6.7	1 x 7.2 + 2 x 6.7	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7	2 x 6.7 + 2 x 7.2	2 x 7.2 + 2 x 7.2
Oil Type			Polyol Ester							
Refrigeration			Electronic Expansion Valve (EEV)							
Refrigerant Control			R410A							
Refrigerant Precharged										
Charge (Total)		kg	15 + 16	17 + 18	23 + 24	23 + 24	30 + 33	31 + 33	32 + 34	32 + 34
Connections			Grooved Terminations							
Water Inlet / Outlet - Unit			DN80	DN80	DN80	DN80	DN100	DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Water System										
Minimum System Water Volume		l	867	870	1695	1174	1205	1436	1444	1775
Maximum System Operating Pressure		Bar	10	10	10	10	10	10	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 100% water.

All performance data is supplied in accordance with BS EN 14511-1:2013

(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

Technical Data

Mechanical Data DCF X Type

	Notes	Units	DCF039DX-10BMS0	DCF044DX-12BSS0
Number of Refrigeration Circuits			2	2
Cooling Duty - EC Fans	(1)	kW	393.0	432.5
Nominal Input - Mechanical		kW	117.1	125.0
EER	(2)		3.35	3.46
ESEER	(3)		4.58	4.96
Nominal Output - Free Cooling	(4)	kW	329.76	382.83
Ambient temperature for 100% Free Cooling	(5)		0.70	1.40
Capacity Steps		%	25-45-65-85-100	20-40-55-70-85-100
Minimum Turndown Ratio			0.25	0.19
Dimensions (H x W x L)		mm	2645 x 2200 x 5956	2645 x 2200 x 7090
Mass				
Machine	(6)	kg	4635	5020
Operating		kg	5125	5590
Construction - Material / Colour		kg	Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)	
Evaporator			Brazen Plate	
Insulation			Class 1	Class 1
Water Volume (Total Internal)		l	54.0	54.0
Maximum Waterflow		l/s	25.4	28.7
Condenser			Epoxy Coated Aluminium Microchannel & Aluminium Fins	
Face Area (Total)		m ²	23.8	28.5
Nominal Airflow		m ³ /s	35.9	43.1
Condenser Fan & Motor			Sickle Bladed Fan	
Quantity			10	12
Diameter		mm	800	800
Maximum Speed		rpm	657	657
Compressor			Tandem + Trio	Trio + Trio
Quantity of Compressors			5	6
Oil Charge Volume (Total)		l	2 x 7.2 + 3 x 6.7	3 x 6.7 + 3 x 6.7
Oil Type			Polyol Ester	
Refrigeration			Electronic Expansion Valve (EEV)	
Refrigerant Control			R410A	
Refrigerant Precharged Charge (Total)		kg	37 + 50	49 + 51
Connections			Grooved Terminations	
Water Inlet / Outlet - Unit			DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2
Water System				
Minimum System Water Volume		l	1791	1482
Maximum System Operating Pressure		Bar	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 100% water.

All performance data is supplied in accordance with BS EN 14511-1:2013

(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

Technical Data

Electrical Data DCF R Type

	Notes	Units	DCF014SR-04AL00	DCF017SR-04AM00	DCF021SR-04BS00	DCF025SR-06BT00	DCF013DR-04ACD0	DCF014DR-04ADD0	DCF015DR-04ADF0	DCF016DR-04AJ00
ELECTRICAL DATA										
Unit Data										
Nominal Run Amps	(1)	A	91	114	129	171	85	91	103	114
Maximum Start Amps	(2)	A	314	385	351	442	314	314	385	286
Recommended Mains Fuse Size		A	125	160	160	200	125	125	125	160
Mains Supply		VAC	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm ²	Direct to Bus Bar							
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm ²	4 mm ² terminals							
Control Circuit		VAC	24V/230VAC							
Evaporator										
External Trace Heating Available (fitted by others)		W	500	500	500	500	500	500	500	500
Condenser Fan - Per Fan (EC)										
Quantity			4	4	4	6	4	4	4	4
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor										
Nominal Run Amps		A	37.9	49.1	37.9	49.1	31.8 / 37.9	37.9 / 37.9	37.9 / 49.1	24.6 / 24.6
Quantity			2	2	3	3	1 + 1	1 + 1	1 + 1	4
Motor Rating		kW	22.4	28.8	22.4	28.8	18.8 / 22.4	22.4 / 22.4	22.4 / 28.8	13.6 / 13.6
Sump Heater Rating		W	75	130	75	130	75	75	75	75
Start Amps	(2)	A	260	320	260	320	215 / 260	260 / 260	260 / 320	197 / 197
Type Of Start			Direct on line							
OPTIONAL EXTRAS										
Power Factor Correction										
Nominal Run Amps		A	84	103	118	155	78	84	93	98
Maximum Start Amps		A	310	379	344	431	310	310	379	275
Compressor Nominal Run Amps		A	34.1	43.8	34.1	43.8	28.5 / 34.1	34.1 / 34.1	34.1 / 43.8	20.7 / 20.7
Recommended Mains Fuse Size		A	125	160	160	200	125	125	125	160
Electronic Soft-start										
Nominal Run Amps		A	91	114	129	171	85	91	103	114
Maximum Start Amps		A	210	257	247	314	203	210	246	208
Recommended Mains Fuse		A	125	160	160	200	125	125	125	160
Power Factor Correction & Electronic Soft Start										
Nominal Run Amps		A	84	103	118	155	78	84	93	98
Maximum Start Amps		A	206	251	240	303	200	206	242	196
Compressor Nominal Run Amps		A	34.1	43.8	34.1	43.8	28.5 / 34.1	34.1 / 34.1	34.1 / 43.8	20.7 / 20.7
Recommended Mains Fuse Size		A	125	160	160	200	125	125	125	160
Standard Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	6.1	8.7	8.7	10.4	6.1	6.1	8.7	8.7
Unit Nominal Run Amps		A	98	123	138	181	91	98	111	123
Recommended Mains Fuse Size		A	125	160	200	200	125	125	160	160
Motor Rating		kW	3	4	4	5.5	3	3	4	4
Larger Head Pump (Single or Run/ Standby)										
Pump Full Load Amps		A	8.7	10.4	10.4	10.4	8.7	8.7	10.4	10.4
Unit Nominal Run Amps		A	100	124	140	181	94	100	113	124
Recommended Mains Fuse Size		A	125	160	200	200	125	125	160	160
Motor Rating		kW	4	5.5	5.5	5.5	4	4	5.5	5.5
Standard Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	6.3	6.3	8	11.2	6.3	6.3	6.3	6.3
Unit Nominal Run Amps		A	98	120	137	182	92	98	109	120
Recommended Mains Fuse Size		A	125	160	200	200	125	125	125	160
Motor Rating		kW	3	3	4	5.5	3	3	3	3
Larger Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	8	8	11.2	14.8	8	8	8	8
Unit Nominal Run Amps		A	99	122	141	186	93	99	111	122
Recommended Mains Fuse Size		A	125	160	200	200	125	125	160	160
Motor Rating		kW	4	4	5.5	7.5	4	4	4	4

(1) Based at 7.2°C Evap / 54.4°C Condensing, EC Fans.

(2) Starting amps refers to the direct on line connections.

Technical Data

Electrical Data DCF R Type

	Notes	Units	DCF018DR-04BUK0	DCF020DR-06BFFK0	DCF023DR-06BKK0	DCF026DR-06BKL0	DCF029DR-06BLL0	DCF032DR-08BLM0	DCF035DR-08BMM0	DCF039DR-10BMS0
ELECTRICAL DATA										
Unit Data										
Nominal Run Amps	(1)	A	128	136	151	163	175	205	228	251
Maximum Start Amps	(2)	A	312	407	334	385	397	476	499	522
Recommended Mains Fuse Size		A	160	160	200	200	250	250	250	315
Mains Supply		VAC	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm²	Direct to Bus Bar							
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm²	4 mm² terminals							
Control Circuit		VAC	24V/230VAC							
Evaporator										
External Trace Heating Available (fitted by others)		W	500	500	500	500	500	500	500	500
Condenser Fan - Per Fan (EC)										
Quantity			4	6	6	6	6	6	8	10
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor										
Nominal Run Amps		A	24.6 / 31.8	49.1 / 31.8	31.8 / 31.8	31.8 / 37.9	37.9 / 37.9	37.9 / 49.1	49.1 / 49.1	49.1 / 37.9
Quantity			2 + 2	1 + 2	2 + 2	2 + 2	2 + 2	2 + 2	2 + 2	2 + 3
Motor Rating		kW	13.6 / 18.8	28.8 / 18.8	18.8 / 18.8	18.8 / 22.4	22.4 / 22.4	22.4 / 28.8	28.8 / 28.8	28.8 / 22.4
Sump Heater Rating		W	75	130 / 75	75	75	75	75 + 130	130	130 + 75
Start Amps	(2)	A	197 / 215	320 / 215	215 / 215	215 / 260	260 / 260	260 / 320	320 / 320	320 / 260
Type Of Start			Direct on line							
OPTIONAL EXTRAS										
Power Factor Correction										
Nominal Run Amps		A	114	124	137	149	160	187	206	229
Maximum Start Amps		A	300	400	324	374	386	463	483	505
Compressor Nominal Run Amps		A	20.7 / 28.5	43.8 / 28.5	28.5 / 28.5	28.5 / 34.1	34.1 / 34.1	34.1 / 43.8	43.8 / 43.8	43.8 / 34.1
Recommended Mains Fuse Size		A	160	160	200	200	250	250	250	315
Electronic Soft-start										
Nominal Run Amps		A	128	136	151	163	175	205	228	251
Maximum Start Amps		A	226	279	248	281	293	348	371	394
Recommended Mains Fuse		A	160	160	200	200	250	250	250	315
Power Factor Correction & Electronic Soft Start										
Nominal Run Amps		A	114	124	137	149	160	187	206	229
Maximum Start Amps		A	214	272	238	270	282	335	355	377
Compressor Nominal Run Amps		A	20.7 / 28.5	43.8 / 28.5	28.5 / 28.5	28.5 / 34.1	34.1 / 34.1	34.1 / 43.8	43.8 / 43.8	43.8 / 34.1
Recommended Mains Fuse Size		A	160	160	200	200	250	250	250	315
Standard Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	8.7	8.7	8.7	10.4	10.4	10.4	10.4	13.6
Unit Nominal Run Amps		A	137	145	159	173	185	216	238	265
Recommended Mains Fuse Size		A	160	200	200	200	250	250	250	315
Motor Rating		kW	4	4	4	5.5	5.5	5.5	5.5	7.5
Larger Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	10.4	10.4	10.4	10.4	13.6	13.6	13.6	21.3
Unit Nominal Run Amps		A	139	146	161	173	189	219	241	272
Recommended Mains Fuse Size		A	160	200	200	200	250	250	250	315
Motor Rating		kW	5.5	5.5	5.5	5.5	7.5	7.5	7.5	11
Standard Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	8	8	8	11.2	11.2	11.2	11.2	14.8
Unit Nominal Run Amps		A	136	144	159	174	186	216	239	266
Recommended Mains Fuse Size		A	160	160	200	200	250	250	250	315
Motor Rating		kW	4	4	4	5.5	5.5	5.5	5.5	7.5
Larger Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	11.2	11.2	11.2	14.8	14.8	14.8	14.8	21.2
Unit Nominal Run Amps		A	140	147	162	178	190	220	242	272
Recommended Mains Fuse Size		A	160	160	200	200	250	250	250	315
Motor Rating		kW	5.5	5.5	5.5	7.5	7.5	7.5	7.5	11

(1) Based at 7.2°C Evap / 54.4°C Condensing, EC Fans.

(2) Starting amps refers to the direct on line connections.

Technical Data

Electrical Data DCF R Type, X Type

	Notes	Units	DCF044DR-10BSS0	DCF014SX-04AL00	DCF017SX-04AM00	DCF021SX-06BS00	DCF025SX-06BT00	DCF013DX-04ACD0	DCF014DX-04ADD0	DCF015DX-04ADF0
ELECTRICAL DATA										
Unit Data										
Nominal Run Amps	(1)	A	266	91	114	137	171	85	91	103
Maximum Start Amps	(2)	A	489	314	385	321	393	314	314	385
Recommended Mains Fuse Size		A	315	125	125	200	200	125	125	125
Mains Supply		VAC	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm²	Direct to Bus Bar							
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm²	4 mm² terminals							
Control Circuit		VAC	24V/230VAC							
Evaporator										
External Trace Heating										
Available (fitted by others)		W	500	500	500	500	500	500	500	500
Condenser Fan - Per Fan (EC)										
Quantity			10	4	4	6	6	4	4	4
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor										
Nominal Run Amps		A	37.9 / 37.9	37.9	49.1	37.9	49.1	31.8 / 37.9	37.9 / 37.9	37.9 / 49.1
Quantity			3 + 3	2	2	3	3	1 + 1	1 + 1	1 + 1
Motor Rating		kW	22.4 / 22.4	22.4	28.8	22.4	28.8	18.8 / 22.4	22.4 / 22.4	22.4 / 28.8
Sump Heater Rating		W	75	75	130	75	130	75	75	75
Start Amps	(2)	A	260 / 260	260	320	260	320	215 / 260	260 / 260	260 / 320
Type Of Start			Direct on line							
OPTIONAL EXTRAS										
Power Factor Correction										
Nominal Run Amps		A	244	84	103	126	155	78	84	93
Maximum Start Amps		A	469	310	379	317	387	310	310	379
Compressor Nominal Run Amps		A	34.1 / 34.1	34.1	43.8	34.1	43.8	28.5 / 34.1	34.1 / 34.1	34.1 / 43.8
Recommended Mains Fuse Size		A	315	125	125	160	200	125	125	125
Electronic Soft-start										
Nominal Run Amps		A	266	91	114	137	171	85	91	103
Maximum Start Amps		A	385	210	257	255	314	203	210	246
Recommended Mains Fuse		A	315	125	125	200	200	125	125	125
Power Factor Correction & Electronic Soft Start										
Nominal Run Amps		A	244	84	103	126	155	78	84	93
Maximum Start Amps		A	365	206	251	248	303	200	206	242
Compressor Nominal Run Amps		A	34.1 / 34.1	34.1	43.8	34.1	43.8	28.5 / 34.1	34.1 / 34.1	34.1 / 43.8
Recommended Mains Fuse Size		A	315	125	125	160	200	125	125	125
Standard Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	13.6	6.1	8.7	8.7	8.7	6.1	6.1	6.1
Unit Nominal Run Amps		A	280	98	123	146	179	91	98	109
Recommended Mains Fuse Size		A	355	125	160	200	200	125	125	125
Motor Rating		kW	7.5	3	4	4	4	3	3	3
Larger Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	21.3	8.7	10.4	10.4	10.4	8.7	8.7	8.7
Unit Nominal Run Amps		A	288	100	124	148	181	94	100	111
Recommended Mains Fuse Size		A	355	125	160	200	200	125	125	125
Motor Rating		kW	11	4	5.5	5.5	5.5	4	4	4
Standard Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	14.8	6.3	6.3	8	11.2	6.3	6.3	6.3
Unit Nominal Run Amps		A	281	98	120	145	182	92	98	109
Recommended Mains Fuse Size		A	355	125	160	200	200	125	125	125
Motor Rating		kW	7.5	3	3	4	5.5	3	3	3
Larger Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	21.2	8	8	11.2	14.8	8	8	8
Unit Nominal Run Amps		A	288	99	122	148	186	93	99	111
Recommended Mains Fuse Size		A	355	125	160	200	200	125	125	125
Motor Rating		kW	11	4	4	5.5	7.5	4	4	4

(1) Based at 7.2°C Evap / 54.4°C Condensing, EC Fans.

(2) Starting amps refers to the direct on line connections.

Technical Data

Electrical Data DCF X Type

	Notes	Units	DCF016DX-04AUJ0	DCF018DX-04BUK0	DCF020DX-06BFK0	DCF023DX-06BKK0	DCF026DX-08BKL0	DCF029DX-08BLLO	DCF032DX-08BLMO	DCF035DX-08BMMO
ELECTRICAL DATA										
Unit Data										
Nominal Run Amps	(1)	A	114	128	136	151	171	183	205	228
Maximum Start Amps	(2)	A	286	312	407	334	393	405	476	499
Recommended Mains Fuse Size		A	160	160	160	160	200	250	250	250
Mains Supply		VAC	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm²	Direct to Bus Bar							
Recommended Permanent Fuse Size		A	16	16	16	16	16	16	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm²	4 mm² terminals							
Control Circuit		VAC	24V/230VAC							
Evaporator										
External Trace Heating Available (fitted by others)		W	500	500	500	500	500	500	500	500
Condenser Fan - Per Fan (EC)										
Quantity			4	4	6	6	8	8	8	8
Full Load Amps		A	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56	2.56	2.56	2.56	2.56	2.56
Compressor - Per Compressor										
Nominal Run Amps		A	24.6 / 24.6	24.6 / 31.8	49.1 / 31.8	31.8 / 31.8	31.8 / 37.9	37.9 / 37.9	37.9 / 49.1	49.1 / 49.1
Quantity			4	2 + 2	1 + 2	2 + 2	2 + 2	2 + 2	2 + 2	2 + 2
Motor Rating		kW	13.6 / 13.6	13.6 / 18.8	28.8 / 18.8	18.8 / 18.8	18.8 / 22.4	22.4 / 22.4	22.4 / 28.8	28.8 / 28.8
Sump Heater Rating		W	75	75	130 / 75	75	75	75	75 + 130	130
Start Amps	(2)	A	197 / 197	197 / 215	320 / 215	215 / 215	215 / 260	260 / 260	260 / 320	320 / 320
Type Of Start			Direct on line							
OPTIONAL EXTRAS										
Power Factor Correction										
Nominal Run Amps		A	98	114	124	137	156	168	187	206
Maximum Start Amps		A	275	300	400	324	382	393	463	483
Compressor Nominal Run Amps		A	20.7 / 20.7	20.7 / 28.5	43.8 / 28.5	28.5 / 28.5	28.5 / 34.1	34.1 / 34.1	34.1 / 43.8	43.8 / 43.8
Recommended Mains Fuse Size		A	160	160	160	160	200	250	250	250
Electronic Soft-start										
Nominal Run Amps		A	114	128	136	151	171	183	205	228
Maximum Start Amps		A	208	226	279	248	289	301	348	371
Recommended Mains Fuse		A	160	160	160	160	200	250	250	250
Power Factor Correction & Electronic Soft Start										
Nominal Run Amps		A	98	114	124	137	156	168	187	206
Maximum Start Amps		A	196	214	272	238	278	289	335	355
Compressor Nominal Run Amps		A	20.7 / 20.7	20.7 / 28.5	43.8 / 28.5	28.5 / 28.5	28.5 / 34.1	34.1 / 34.1	34.1 / 43.8	43.8 / 43.8
Recommended Mains Fuse Size		A	160	160	160	160	200	250	250	250
Standard Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	8.7	8.7	8.7	8.7	10.4	10.4	10.4	10.4
Unit Nominal Run Amps		A	123	137	145	159	181	193	216	238
Recommended Mains Fuse Size		A	160	160	160	200	200	250	250	250
Motor Rating		kW	4	4	4	4	5.5	5.5	5.5	5.5
Larger Head Pump (Single or Run/Standby)										
Pump Full Load Amps		A	10.4	10.4	10.4	10.4	10.4	13.6	13.6	13.6
Unit Nominal Run Amps		A	124	139	146	161	181	196	219	241
Recommended Mains Fuse Size		A	160	160	200	200	200	250	250	250
Motor Rating		kW	5.5	5.5	5.5	5.5	5.5	7.5	7.5	7.5
Standard Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	6.3	8	8	8	11.2	11.2	11.2	11.2
Unit Nominal Run Amps		A	120	136	144	159	182	194	216	239
Recommended Mains Fuse Size		A	160	160	160	200	200	250	250	250
Motor Rating		kW	3	4	4	4	5.5	5.5	5.5	5.5
Larger Head Inverter Pump (Single or Run/Standby)										
Pump Full Load Amps		A	8	11.2	11.2	11.2	14.8	14.8	14.8	14.8
Unit Nominal Run Amps		A	122	140	147	162	185	198	220	242
Recommended Mains Fuse Size		A	160	160	160	200	200	250	250	250
Motor Rating		kW	4	5.5	5.5	5.5	7.5	7.5	7.5	7.5

(1) Based at 7.2°C Evap / 54.4°C Condensing, EC Fans.

(2) Starting amps refers to the direct on line connections.

Technical Data

Electrical Data DCF X Type

	Notes	Units	DCF039DX-10BMS0	DCF044DX-12BSS0
ELECTRICAL DATA				
Unit Data				
Nominal Run Amps	(1)	A	251	274
Maximum Start Amps	(2)	A	522	496
Recommended Mains Fuse Size		A	315	315
Mains Supply		VAC	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm²	Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm²	4 mm² terminals	
Control Circuit		VAC	24V/230VAC	
Evaporator				
External Trace Heating Available (fitted by others)		W	500	500
Condenser Fan - Per Fan (EC)				
Quantity			10	12
Full Load Amps		A	3.9	3.9
Locked Rotor Amps		A	N/A	N/A
Motor Rating		kW	2.56	2.56
Compressor - Per Compressor				
Nominal Run Amps		A	49.1 / 37.9	37.9 / 37.9
Quantity			2 + 3	3 + 3
Motor Rating		kW	28.8 / 22.4	22.4 / 22.4
Sump Heater Rating		W	130 + 75	75
Start Amps	(2)	A	320 / 260	260 / 260
Type Of Start			Direct on line	
OPTIONAL EXTRAS				
Power Factor Correction				
Nominal Run Amps		A	229	251
Maximum Start Amps		A	505	477
Compressor Nominal Run Amps		A	43.8 / 34.1	34.1 / 34.1
Recommended Mains Fuse Size		A	315	315
Electronic Soft-start				
Nominal Run Amps		A	251	274
Maximum Start Amps		A	394	392
Recommended Mains Fuse		A	315	315
Power Factor Correction & Electronic Soft Start				
Nominal Run Amps		A	229	251
Maximum Start Amps		A	377	373
Compressor Nominal Run Amps		A	43.8 / 34.1	34.1 / 34.1
Recommended Mains Fuse Size		A	315	315
Standard Head Pump (Single or Run/Standby)				
Pump Full Load Amps		A	13.6	13.6
Unit Nominal Run Amps		A	265	288
Recommended Mains Fuse Size		A	315	355
Motor Rating		kW	7.5	7.5
Larger Head Pump (Single or Run/Standby)				
Pump Full Load Amps		A	21.3	21.3
Unit Nominal Run Amps		A	272	296
Recommended Mains Fuse Size		A	315	355
Motor Rating		kW	11	11
Standard Head Inverter Pump (Single or Run/Standby)				
Pump Full Load Amps		A	14.8	14.8
Unit Nominal Run Amps		A	266	289
Recommended Mains Fuse Size		A	315	355
Motor Rating		kW	7.5	7.5
Larger Head Inverter Pump (Single or Run/Standby)				
Pump Full Load Amps		A	21.2	21.2
Unit Nominal Run Amps		A	272	295
Recommended Mains Fuse Size		A	315	355
Motor Rating		kW	11	11

(1) Based at 7.2°C Evap / 54.4°C Condensing, EC Fans.

(2) Starting amps refers to the direct on line connections.

Technical Data

Sound Data - DCF

Model	Sound	Frequency								
		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	Total
		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
DCF014SR-04AL00	Power	83	82	80	87	86	77	72	60	89
	Pressure @10m	52	50	48	55	54	45	40	28	57
DCF017SR-04AM00	Power	80	84	82	94	94	79	72	60	96
	Pressure @10m	52	52	50	62	62	47	40	28	64
DCF021SR-04BS00	Power	79	86	84	89	88	80	75	64	91
	Pressure @10m	57	54	52	57	56	48	43	32	59
DCF025SR-06BT00	Power	82	85	84	96	96	81	73	62	98
	Pressure @10m	53	53	52	64	64	49	41	30	66
DCF013DR-04ACD0	Power	84	81	79	87	86	77	73	63	89
	Pressure @10m	52	49	47	55	54	45	41	31	57
DCF014DR-04ADD0	Power	83	82	80	87	86	77	72	60	89
	Pressure @10m	52	50	48	55	54	45	40	28	57
DCF015DR-04ADF0	Power	82	83	81	92	92	78	72	60	94
	Pressure @10m	52	51	49	60	60	46	40	28	62
DCF016DR-04AJJ0	Power	82	84	82	81	84	77	73	62	87
	Pressure @10m	53	52	50	48	52	45	41	30	54
DCF018DR-04BJK0	Power	80	86	84	88	87	80	75	66	90
	Pressure @10m	58	54	52	56	55	47	43	34	58
DCF020DR-06BFK0	Power	85	83	82	93	92	79	74	65	94
	Pressure @10m	53	51	49	60	60	47	42	33	62
DCF023DR-06BKK0	Power	84	84	83	90	88	80	76	68	92
	Pressure @10m	53	52	51	58	56	48	44	35	59
DCF026DR-06BKL0	Power	83	85	84	90	89	80	76	66	92
	Pressure @10m	54	53	52	58	57	48	44	34	60
DCF029DR-06BLL0	Power	82	86	85	90	90	81	76	65	92
	Pressure @10m	55	54	53	58	57	49	44	32	60
DCF032DR-08BLM0	Power	85	86	85	95	95	81	75	63	97
	Pressure @10m	54	54	52	63	62	49	43	31	64
DCF035DR-08BMM0	Power	83	87	86	97	97	82	75	63	99
	Pressure @10m	55	54	53	65	65	50	42	31	67
DCF039DR-10BMS0	Power	86	87	85	95	95	82	76	64	97
	Pressure @10m	55	54	53	63	62	50	44	32	65
DCF044DR-10BSS0	Power	85	87	86	92	91	82	77	66	94
	Pressure @10m	55	55	54	60	59	50	45	33	61

1 dB(A) is the overall sound level, measured on the A scale.

2 All sound data measured at nominal conditions: Water in/out 15/10°C at 35°C ambient.

3 Based on standard unit, for units fitted with optional pump packages please contact Airedale.

Technical Data

Sound Data - DCF

Model	Sound	Frequency								
		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	Total
		dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
DCF014SX-04AL00	Power	86	79	77	77	81	67	66	53	82
	Pressure @10m	54	47	45	45	49	35	34	21	50
DCF017SX-04AM00	Power	86	79	77	83	89	68	66	52	89
	Pressure @10m	54	47	45	51	56	36	34	20	57
DCF021SX-06BS00	Power	88	81	79	79	83	69	68	55	84
	Pressure @10m	56	49	46	46	50	36	36	23	52
DCF025SX-06BT00	Power	88	81	79	85	90	70	68	54	91
	Pressure @10m	55	49	46	52	58	38	36	21	59
DCF013DX-04ACD0	Power	86	79	77	77	80	67	67	56	82
	Pressure @10m	54	47	45	45	48	35	35	24	50
DCF014DX-04ADD0	Power	86	79	77	77	81	67	66	53	82
	Pressure @10m	54	47	45	45	49	35	34	21	50
DCF015DX-04ADF0	Power	86	79	77	81	86	68	66	53	87
	Pressure @10m	54	47	45	49	54	36	34	21	55
DCF016DX-04AJJ0	Power	86	80	77	74	78	68	67	54	80
	Pressure @10m	54	47	45	42	46	36	35	22	48
DCF018DX-04BJK0	Power	86	80	77	77	81	68	69	58	82
	Pressure @10m	54	47	45	45	48	36	37	26	50
DCF020DX-06BFK0	Power	88	81	79	82	86	69	69	58	87
	Pressure @10m	55	49	46	49	54	37	36	25	55
DCF023DX-06BKK0	Power	88	81	79	79	82	69	70	60	84
	Pressure @10m	55	49	46	47	50	37	38	28	52
DCF026DX-08BKL0	Power	89	82	80	80	83	70	70	59	85
	Pressure @10m	57	50	47	47	51	38	37	26	52
DCF029DX-08BLL0	Power	89	82	80	80	84	70	69	56	85
	Pressure @10m	57	50	47	48	51	38	37	24	53
DCF032DX-08BLM0	Power	89	82	80	84	89	71	69	56	90
	Pressure @10m	57	50	47	51	57	38	37	23	58
DCF035DX-08BMM0	Power	89	82	80	86	92	71	69	55	92
	Pressure @10m	56	50	48	53	59	39	37	22	60
DCF039DX-10BMS0	Power	90	83	81	84	89	71	70	57	90
	Pressure @10m	57	51	48	52	57	39	38	24	58
DCF044DX-12BSS0	Power	91	84	82	82	86	72	71	58	87
	Pressure @10m	58	52	49	49	53	39	38	25	54

1 dB(A) is the overall sound level, measured on the A scale.

2 All sound data measured at nominal conditions: Water in/out 15/10°C at 35°C ambient.

3 Based on standard unit, for units fitted with optional pump packages please contact Airedale.

Hydronic Data

CAUTION 

Waterside Pressure Drops
Full design water flow MUST be maintained at all times. Variable water volume is NOT

recommended and will invalidate warranty.
Use the formula below to calculate the External Head Available:

Total Pump Head Available - Chiller Pressure Drop = External Head Available

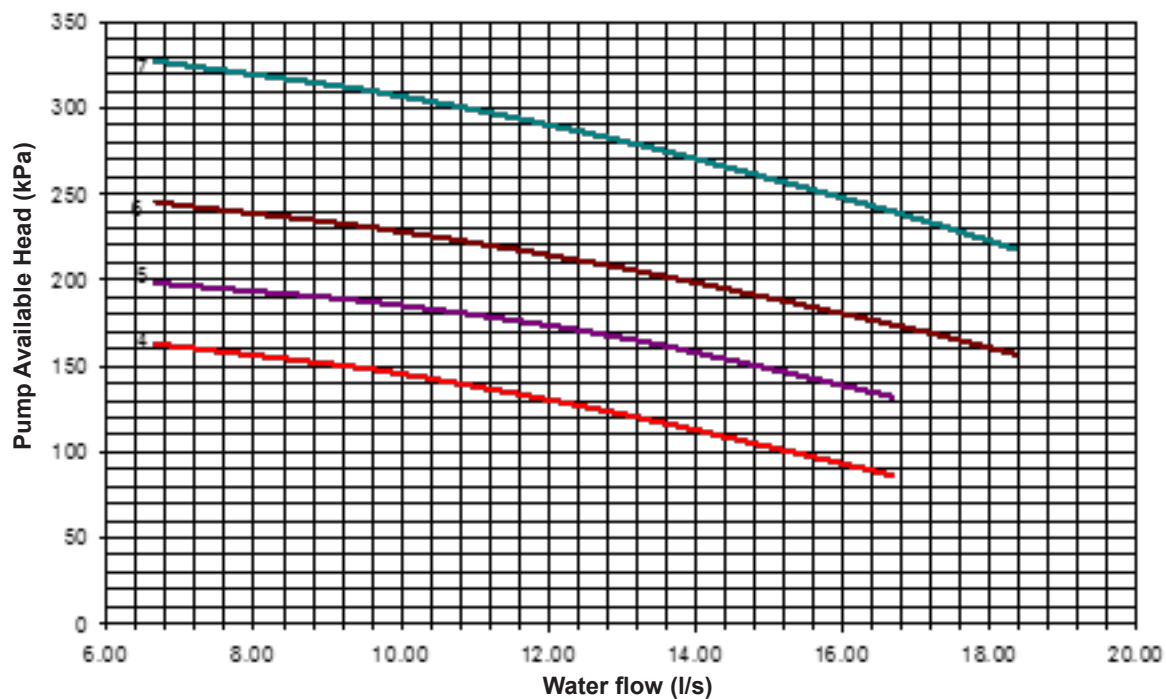
Example: DCC033DR-08BMH0

Water flow : 15.6 l/s
Pump Option : 6

Chiller Pressure Drop : 39.6 kPa

Total Pump Head Available : 182 kPa

182 kPa -39.6 kPa =142.4 kPa



- 1 Chiller pressure drop refers to standard unit only. For pump options, please contact Airedale.
- 2 For glycol solutions, please refer to Glycol Data.

Technical Data

Water Pressure Drop - DCC

Unit	Waterflow(l/s)												
	4	6	8	10	12	14	16	18	20	22	24	26	28
	Pressure Drop (kPa)												
DCC011SR-04AK00	22.3	45.5	77.3	118.3	168.9	228.6	296.4						
DCC014SR-04AL00	14.6	30.5	51.2	77.3	109.5	147.7	191.6						
DCC017SR-04AM00	10.7	23.3	39.0	58.5	82.2	110.3	142.9						
DCC021SR-04BS00	6.1	12.5	21.0	31.3	43.5	57.5	73.4						
DCC023SR-04BT00	3.5	8.1	14.1	21.4	30.0	39.8	50.9						
DCC024SR-06BT00	3.5	8.1	14.1	21.4	30.0	39.8	50.9	63.1	76.5				
DCC011DR-04ACC0	19.9	40.7	68.9	105.2	149.9	202.7	262.8						
DCC013DR-04ACD0	14.1	29.7	49.7	75.1	106.2	143.2	185.8						
DCC014DR-04ADD0	14.1	29.7	49.7	75.1	106.2	143.2	185.8						
DCC015DR-04ADF0	10.7	23.3	39.0	58.5	82.2	110.4	143.0						
DCC016DR-04AJJ0	10.7	23.3	39.0	58.5	82.2	110.4	143.0						
DCC018DR-04BJK0	7.5	15.3	25.5	38.1	53.0	70.0	89.3						
DCC019DR-04AFK0	7.0	14.6	25.0	37.9	53.1	70.7	90.6						
DCC020DR-06AFK0	7.0	14.7	25.2	38.1	53.5	71.2	91.3	113.8	139.0				
DCC021DR-04AKK0	7.0	14.6	25.0	37.9	53.1	70.7	90.6						
DCC022DR-06AKK0	7.1	14.9	25.4	38.5	54.0	71.9	92.1	114.9	140.3				
DCC024DR-04BKL0	3.2	7.4	13.0	19.8	27.7	36.8	46.9						
DCC025DR-06BKL0	3.2	7.5	13.2	20.0	28.1	37.2	47.6	59.0	71.4				
DCC027DR-04BLL0	3.2	7.4	13.0	19.8	27.7	36.8	46.9						
DCC028DR-06BLL0	3.2	7.5	13.2	20.0	28.1	37.2	47.6	59.0	71.4				
DCC030DR-06BLM0	2.3	5.8	10.2	15.7	22.0	29.3	37.4	46.3	56.1				
DCC031DR-08BLM0		5.8	10.3	15.8	22.3	29.6	37.8	46.8	56.7	67.4	78.9	91.2	104.2
DCC032DR-06BMM0	2.3	5.8	10.2	15.7	22.0	29.3	37.4	46.3	56.1				
DCC033DR-08BMM0		5.7	10.2	15.7	22.0	29.3	37.4	46.3	56.1	66.6	78.0	90.1	103.0
DCC036DR-06BMS0	2.6	4.3	6.7	10.0	13.9	18.4	23.6	29.4	35.7	42.6	49.9	57.7	65.9
DCC038DR-10BMS0		4.3	6.7	10.0	13.9	18.4	23.6	29.4	35.7	42.6	49.9	57.7	65.9
DCC039DR-06BSS0	2.6	4.3	6.7	10.0	13.9	18.4	23.6	29.4	35.7	42.6	49.9	57.7	65.9
DCC042DR-10BSS0		4.3	6.7	10.0	13.9	18.4	23.6	29.4	35.7	42.6	49.9	57.7	65.9
DCC043DR-08BST0		6.4	8.3	10.3	12.5	15.1	18.1	21.6	25.7	30.3	35.7	41.7	48.5
DCC045DR-10BST0		6.3	8.2	10.2	12.5	15.0	18.0	21.4	25.4	30.1	35.4	41.4	48.1
DCC046DR-08BTT0		6.4	8.3	10.3	12.5	15.1	18.1	21.6	25.7	30.3	35.7	41.7	48.5
DCC048DR-10BTT0		6.3	8.2	10.2	12.5	15.0	18.0	21.4	25.4	30.1	35.4	41.4	48.1
DCC051DR-08BVV0		6.4	8.3	10.3	12.5	15.1	18.1	21.6	25.7	30.3	35.7	41.7	48.5
DCC011SX-04AK00	22.3	45.5	77.3	118.3	168.9	228.6	296.4						
DCC014SX-04AL00	14.6	30.5	51.2	77.3	109.5	147.7	191.6						
DCC017SX-04AM00	10.7	23.3	39.0	58.5	82.2	110.3	142.9						
DCC021SX-06BS00	6.1	12.5	21.0	31.3	43.5	57.5	73.4	91.1	110.9				
DCC023SX-04BT00	3.5	8.1	14.1	21.4	30.0	39.8	50.9						
DCC024SX-06BT00	3.5	8.1	14.0	21.3	29.9	39.7	50.7	62.8	76.2				
DCC011DX-04ACC0	19.9	40.7	68.9	105.2	149.9	202.7	262.8						
DCC013DX-04ACD0	14.1	29.7	49.7	75.1	106.2	143.2	185.8						
DCC014DX-04ADD0	14.1	29.7	49.7	75.1	106.2	143.2	185.8						
DCC015DX-04ADF0	10.7	23.3	39.0	58.5	82.2	110.3	142.9						
DCC016DX-04AJJ0	10.7	23.3	39.0	58.5	82.2	110.3	142.9						
DCC018DX-04BJK0	7.5	15.2	25.4	37.9	52.6	69.4	88.6						

Waterside pressure drops based upon a standard configured unit. For pressure drop information with different configurations contact Airedale.

Technical Data

Water Pressure Drop - DCC

	Waterflow(l/s)												
Unit	4	6	8	10	12	14	16	18	20	22	24	26	28
	Pressure Drop (kPa)												
DCC019DX-04AFK0	7.0	14.6	25.0	37.9	53.1	70.7	90.6						
DCC020DX-06AFK0	7.0	14.6	25.0	37.8	53.1	70.6	90.5	112.9	137.8				
DCC021DX-04AKK0	7.0	14.6	25.0	37.9	53.1	70.7	90.6						
DCC022DX-06AKK0	7.0	14.6	25.0	37.8	53.1	70.6	90.5	112.9	137.8				
DCC024DX-06BKL0	3.2	7.5	13.1	19.9	27.8	36.9	47.2	58.5	70.8				
DCC025DX-08BKL0		7.5	13.1	19.9	27.9	37.1	47.3	58.7	71.1	84.6	99.1	114.7	131.3
DCC027DX-06BLL0	3.2	7.5	13.1	19.9	27.8	36.9	47.2	58.5	70.8				
DCC028DX-08BLL0		7.5	13.1	19.9	27.9	37.1	47.3	58.7	71.1	84.6	99.1	114.7	131.3
DCC030DX-06BLM0	2.3	5.8	10.2	15.7	22.0	29.3	37.4	46.3	56.1				
DCC032DX-06BMM0	2.3	5.8	10.2	15.7	22.0	29.3	37.4	46.3	56.1				
DCC031DX-08BLM0		5.8	10.3	15.7	22.1	29.4	37.6	46.6	56.4	67.0	78.4	90.6	103.6
DCC033DX-08BMM0		5.8	10.3	15.7	22.1	29.4	37.6	46.6	56.4	67.0	78.4	90.6	103.6
DCC036DX-08BMS0		4.3	6.8	10.0	14.0	18.6	23.8	29.6	36.0	42.9	50.3	58.1	66.4
DCC038DX-10BMS0		4.3	6.9	10.1	14.1	18.7	24.0	29.9	36.3	43.3	50.8	58.7	67.1
DCC039DX-08BSS0		4.3	6.8	10.0	14.0	18.6	23.8	29.6	36.0	42.9	50.3	58.1	66.4
DCC042DX-12BSS0		4.4	6.9	10.2	14.2	18.9	24.3	30.2	36.7	43.7	51.3	59.3	67.7
DCC043DX-08BST0		6.4	8.3	10.3	12.5	15.1	18.1	21.6	25.7	30.3	35.7	41.7	48.5
DCC045DX-12BST0		6.4	8.4	10.5	12.8	15.5	18.6	22.2	26.4	31.2	36.7	42.9	49.8
DCC046DX-10BTT0		6.4	8.3	10.4	12.7	15.3	18.3	21.9	26.0	30.8	36.2	42.3	49.2
DCC048DX-12BTT0		6.4	8.4	10.5	12.8	15.5	18.6	22.2	26.4	31.2	36.7	42.9	49.8
DCC051DX-10BVV0		6.4	8.3	10.4	12.7	15.3	18.3	21.9	26.0	30.8	36.2	42.3	49.2

Waterside pressure drops based upon a standard configured unit. For pressure drop information with different configurations contact Airedale.

Technical Data

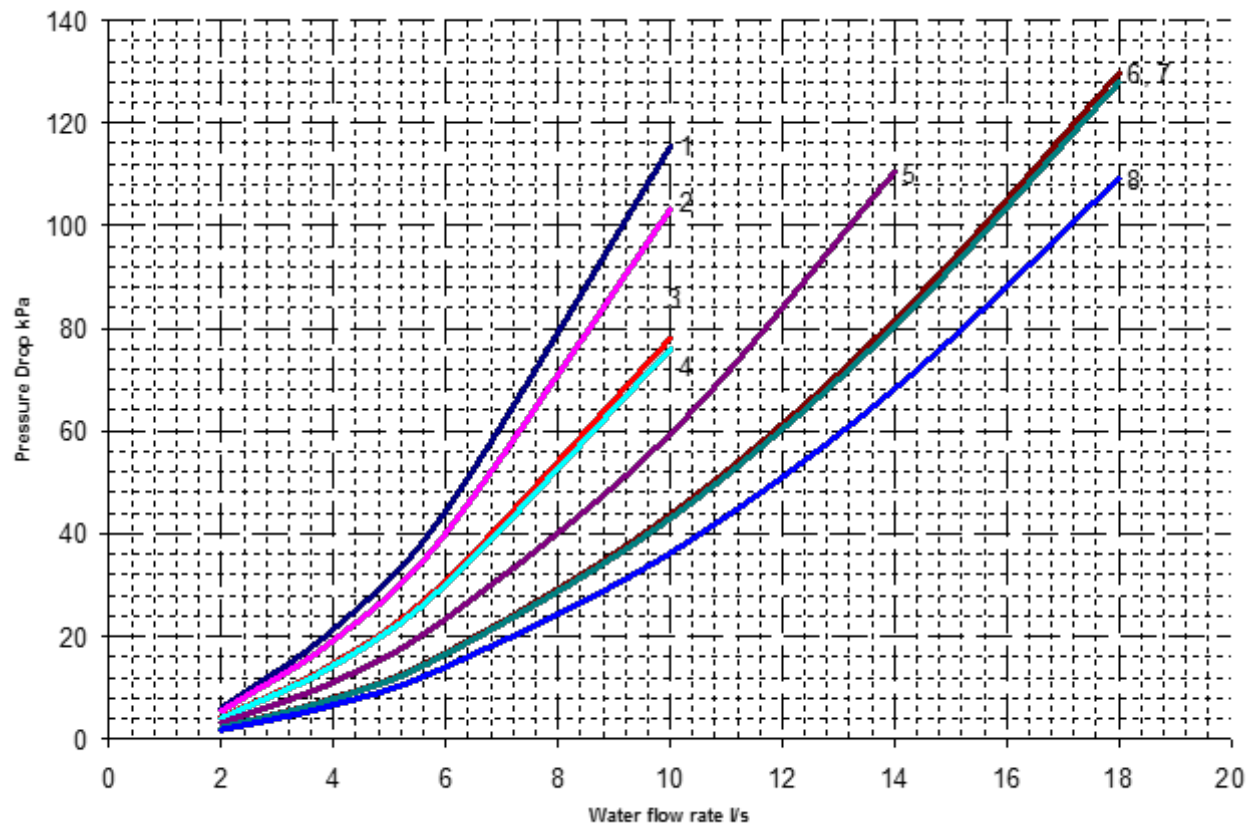
Water Pressure Drop - DCF

Unit	Waterflow(l/s)												
	4	6	8	10	12	14	16	18	20	22	24	26	28
	Pressure Drop (kPa)												
DCF014SR-04AL00	30.9	61.7	103.0	154.5	216.1	287.7	369.1						
DCF017SR-04AM00	28.0	55.7	93.0	139.7	195.7	260.8	335.1						
DCF021SR-04BS00	21.5	44.2	73.3	108.9	150.8	198.9	253.3						
DCF025SR-06BT00	10.1	24.7	43.0	64.8	90.3	119.2	151.7	187.6	227.0				
DCF013DR-04ACD0	30.9	61.7	103.0	154.6	216.2	287.8	369.2						
DCF014DR-04ADD0	30.9	61.7	103.0	154.5	216.1	287.7	369.1						
DCF015DR-04ADF0	27.8	55.5	92.6	139.0	194.7	259.6	333.6						
DCF016DR-04AJJ0	27.8	55.5	92.6	139.0	194.7	259.5	333.5						
DCF018DR-04BJK0	24.2	48.0	79.9	119.9	167.9	223.8	287.6						
DCF020DR-06BFK0	15.7	32.8	54.9	81.7	113.2	149.4	190.2	235.7	285.6				
DCF023DR-06BKK0	15.7	32.8	54.8	81.6	113.1	149.3	190.1	235.6	285.5				
DCF026DR-06BKLO	9.2	22.9	39.9	60.3	83.9	110.8	141.0	174.4	211.1				
DCF029DR-06BLL0	9.2	22.8	39.8	60.2	83.8	110.8	140.9	174.3	211.0				
DCF032DR-08BLM0		15.3	26.6	39.9	55.2	72.6	91.9	113.2	136.5	161.8	188.9	218.0	249.1
DCF035DR-08BMM0		15.2	26.5	39.9	55.2	72.5	91.9	113.2	136.5	161.7	188.9	218.0	249.0
DCF039DR-10BMS0		11.4	20.3	30.9	43.0	56.6	71.8	88.4	106.7	126.4	147.6	170.4	194.7
DCF044DR-10BSS0		11.3	20.3	30.8	42.9	56.5	71.7	88.4	106.6	126.3	147.6	170.3	194.6
DCF014SX-04AL00	30.9	61.7	103.0	154.5	216.1	287.7	369.2						
DCF017SX-04AM00	28.0	55.8	93.1	139.7	195.7	260.9	335.2						
DCF021SX-06BS00	16.7	34.9	58.3	86.8	120.4	158.9	202.4	250.7	303.8				
DCF025SX-06BT00	10.2	24.9	43.3	65.3	90.9	120.1	152.8	189.0	228.7				
DCF013DX-04ACD0	30.9	61.8	103.0	154.6	216.2	287.8	369.3						
DCF014DX-04ADD0	30.9	61.7	103.0	154.5	216.1	287.7	369.2						
DCF015DX-04ADF0	27.9	55.5	92.6	139.1	194.8	259.6	333.6						
DCF016DX-04AJJ0	27.8	55.5	92.6	139.0	194.7	259.6	333.6						
DCF018DX-04BJK0	24.2	48.0	79.9	119.8	167.8	223.7	287.5						
DCF020DX-06BFK0	19.4	38.8	65.0	98.0	137.8	184.2	237.2	296.9	363.1				
DCF023DX-06BKK0	15.7	32.8	54.8	81.6	113.1	149.3	190.2	235.6	285.6				
DCF026DX-08BKLO		19.3	34.2	52.0	72.7	96.3	122.6	151.8	183.8	218.5	255.9	296.2	339.1
DCF029DX-08BLL0		19.2	34.2	52.0	72.7	96.2	122.6	151.7	183.7	218.4	255.9	296.1	339.0
DCF032DX-08BLM0		15.3	26.6	39.9	55.3	72.6	92.0	113.3	136.6	161.8	189.0	218.1	249.1
DCF035DX-08BMM0		15.2	26.5	39.9	55.2	72.6	91.9	113.2	136.5	161.7	188.9	218.0	249.0
DCF039DX-10BMS0		11.4	20.4	30.9	43.0	56.6	71.8	88.5	106.7	126.4	147.7	170.4	194.7
DCF044DX-12BSS0		10.3	18.7	28.6	40.0	52.8	67.0	82.7	99.8	118.3	138.2	159.6	182.4

Waterside pressure drops based upon a standard configured unit. For pressure drop information with different configurations contact Airedale.

Technical Data

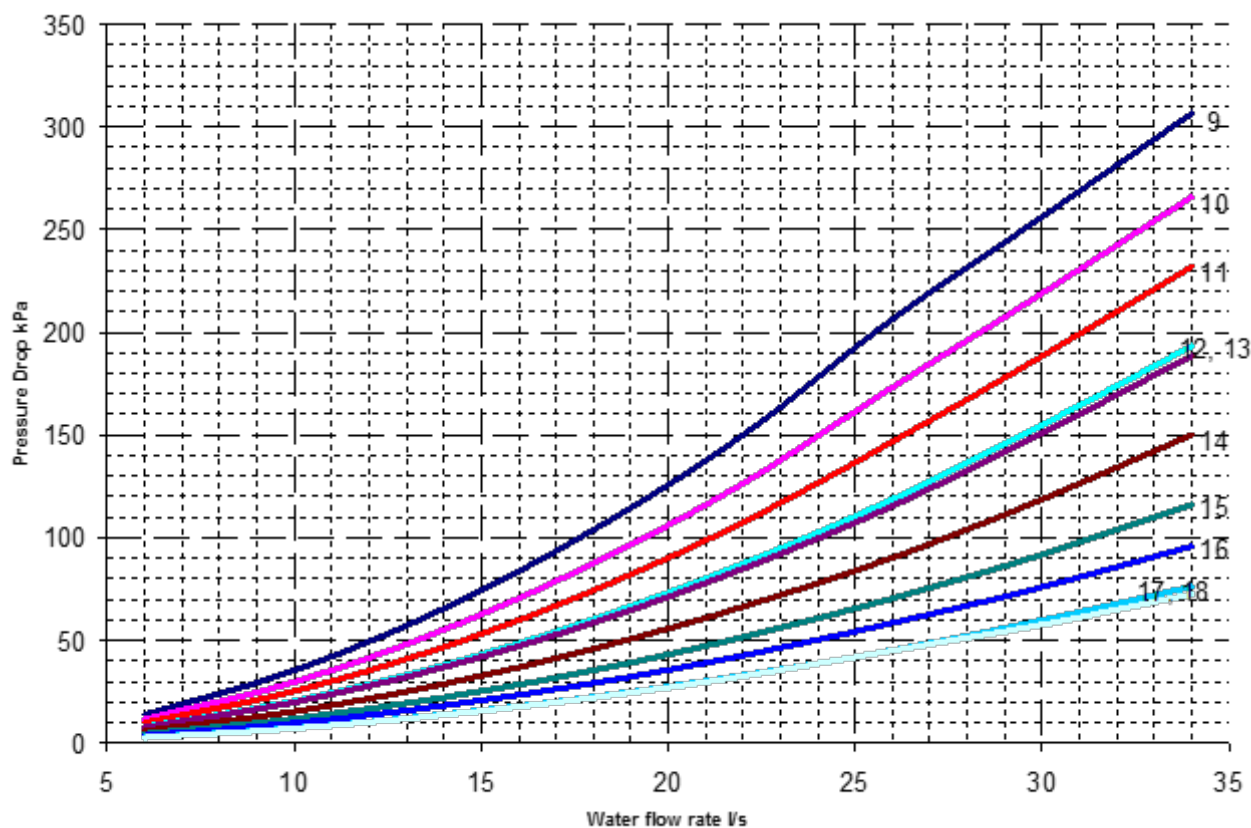
Evaporator Pressure Drops



Technical

Technical Data

Evaporator Pressure Drop Continued



Unit	Graph Reference
DCF014SR-04AL00	5
DCF017SR-04AM00	6
DCF021SR-04BS00	10
DCF025SR-06BT00	12
DCF013DR-04ACD0	5
DCF014DR-04ADD0	5
DCF015DR-04ADF0	7
DCF016DR-04AJJ0	7
DCF018DR-04BJK0	11
DCF020DR-06BFK0	11
DCF023DR-06BKK0	11
DCF026DR-06BKL0	14
DCF029DR-06BLL0	14
DCF032DR-08BLM0	15
DCF035DR-08BMM0	15
DCF039DR-10BMS0	17
DCF044DR-10BSS0	17
DCF014SX-04AL00	5

Unit	Graph Reference
DCF017SX-04AM00	6
DCF021SX-06BS00	10
DCF025SX-06BT00	12
DCF013DX-04ACD0	5
DCF014DX-04ADD0	5
DCF015DX-04ADF0	7
DCF016DX-04AJJ0	7
DCF018DX-04BJK0	11
DCF020DX-06BFK0	11
DCF023DX-06BKK0	11
DCF026DX-08BKL0	14
DCF029DX-08BLL0	14
DCF032DX-08BLM0	15
DCF035DX-08BMM0	15
DCF039DX-10BMS0	17
DCF044DX-12BSS0	17

Technical Data

Evaporator Pressure Drop Continued

Unit	Graph Reference
DCC011SR-04AK00	1
DCC014SR-04AL00	3
DCC017SR-04AM00	5
DCC021SR-04BS00	10
DCC023SR-04BT00	12
DCC024SR-06BT00	12
DCC011DR-04ACC0	2
DCC013DR-04ACD0	4
DCC014DR-04ADD0	4
DCC015DR-04ADF0	5
DCC016DR-04AJJ0	5
DCC018DR-04BJK0	9
DCC019DR-04AFK0	8
DCC020DR-06AFK0	8
DCC021DR-04AKK0	8
DCC022DR-06AKK0	8
DCC024DR-04BKL0	13
DCC025DR-06BKL0	13
DCC027DR-04BLL0	13
DCC028DR-06BLL0	13
DCC030DR-06BLM0	14
DCC031DR-08BLM0	14
DCC032DR-06BMM0	14
DCC033DR-08BMM0	14
DCC036DR-06BMS0	16
DCC038DR-10BMS0	16
DCC039DR-06BSS0	16
DCC042DR-10BSS0	16
DCC043DR-08BST0	18
DCC045DR-10BST0	18
DCC046DR-08BTT0	18
DCC048DR-10BTT0	18
DCC051DR-08BVV0	18
DCC011SX-04AK00	1
DCC014SX-04AL00	3
DCC017SX-04AM00	5
DCC021SX-06BS00	10
DCC023SX-04BT00	12
DCC024SX-06BT00	12

Unit	Graph Reference
DCC011DX-04ACC0	2
DCC013DX-04ACD0	4
DCC014DX-04ADD0	4
DCC015DX-04ADF0	5
DCC016DX-04AJJ0	5
DCC018DX-04BJK0	9
DCC019DX-04AFK0	8
DCC020DX-06AFK0	8
DCC021DX-04AKK0	8
DCC022DX-06AKK0	8
DCC024DX-06BKL0	13
DCC025DX-08BKL0	13
DCC027DX-06BLL0	13
DCC028DX-08BLL0	13
DCC030DX-06BLM0	14
DCC031DX-08BLM0	14
DCC032DX-06BMM0	14
DCC033DX-08BMM0	14
DCC036DX-08BMS0	16
DCC038DX-10BMS0	16
DCC039DX-08BSS0	16
DCC042DX-12BSS0	16
DCC043DX-08BST0	18
DCC045DX-12BST0	18
DCC046DX-10BTT0	18
DCC048DX-12BTT0	18
DCC051DX-10BVV0	18

Pump Packages

DeltaChill Air Cooled Models

Air-Cooled	Pump Curve (refer to Graphs)			
	Standard		External Inverter	
	Standard Head	High Head	Standard Head	High Head
DCC011SR-04AK00	4	1	11	12
DCC014SR-04AL00	4	1	11	12
DCC017SR-04AM00	4	2	11	12
DCC021SR-04BS00	4	2	11	12
DCC023SR-04BT00	5	6	15	13
DCC024SR-06BT00	5	6	20	13
DCC011DR-04ACC0	4	1	11	12
DCC013DR-04ACD0	4	1	11	12
DCC014DR-04ADD0	4	1	11	12
DCC015DR-04ADF0	4	1	11	12
DCC016DR-04AJJ0	4	2	11	12
DCC018DR-04BJK0	4	2	11	12
DCC019DR-04AFK0	4	2	11	12
DCC020DR-06AFK0	4	2	11	12
DCC021DR-04AKK0	5	6	15	13
DCC022DR-06AKK0	5	6	15	13
DCC024DR-04BKL0	5	6	20	16
DCC025DR-06BKL0	5	6	20	16
DCC027DR-04BLL0	5	6	20	16
DCC028DR-06BLL0	5	6	20	16
DCC030DR-06BLM0	5	6	21	16
DCC031DR-08BLM0	5	6	21	16
DCC032DR-06BMM0	6	8	21	16
DCC033DR-08BMM0	6	8	21	16
DCC036DR-06BMS0	8	9	21	16
DCC038DR-10BMS0	8	9	21	16
DCC039DR-06BSS0	8	9	21	16
DCC042DR-10BSS0	8	9	21	16
DCC043DR-08BST0	8	9	21	18
DCC045DR-10BST0	8	9	21	18
DCC046DR-08BTT0	8	9	21	18
DCC048DR-10BTT0	8	9	21	18
DCC051DR-08BVV0	8	9	21	18
DCC011SX-04AK00	4	1	11	12
DCC014SX-04AL00	4	1	11	12
DCC017SX-04AM00	4	2	11	12
DCC021SX-06BS00	4	2	11	12
DCC023SX-04BT00	5	6	15	13
DCC024SX-06BT00	5	6	15	13

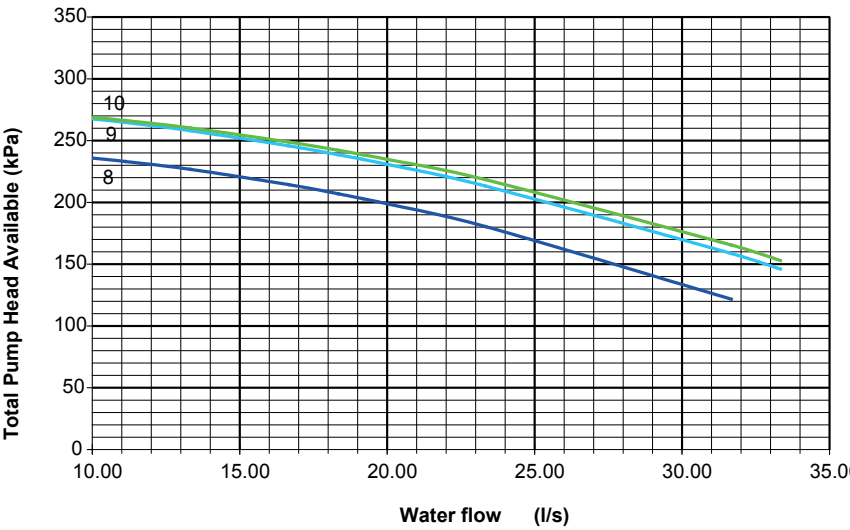
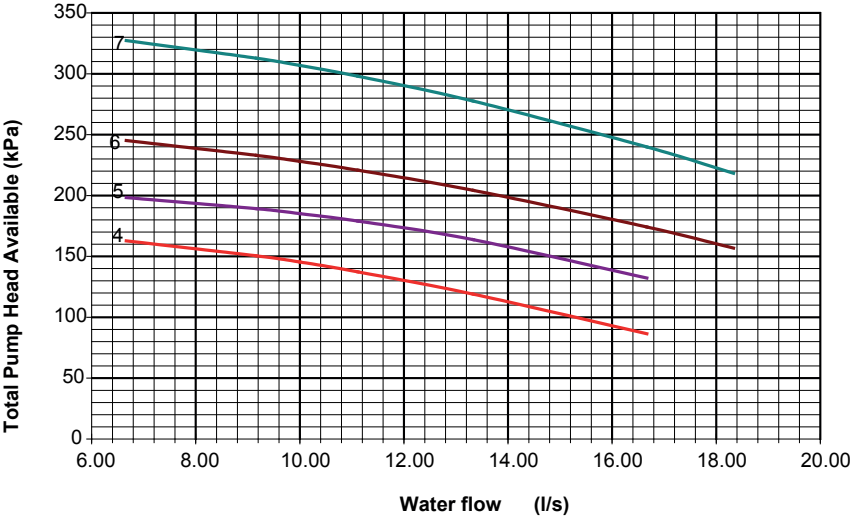
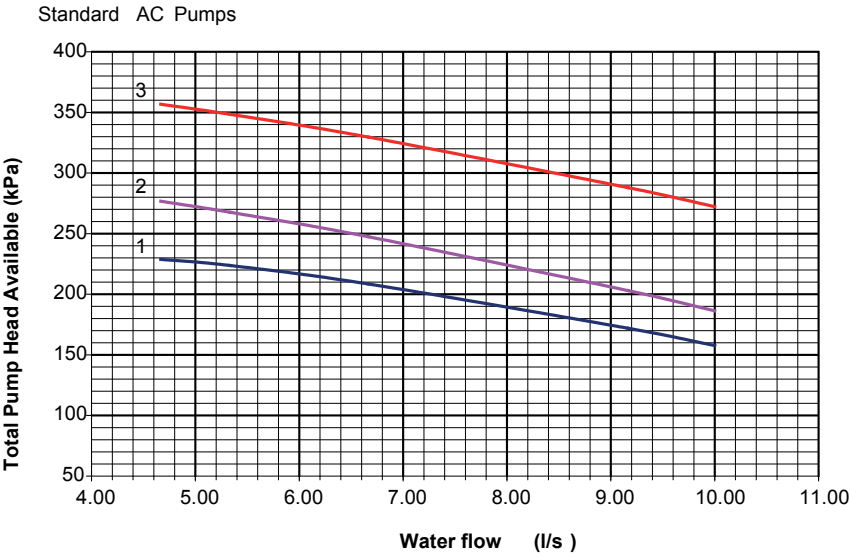
Air-Cooled	Pump Curve (refer to Graphs)			
	Standard		External Inverter	
	Standard Head	High Head	Standard Head	High Head
DCC011DX-04ACC0	4	1	11	12
DCC013DX-04ACD0	4	1	11	12
DCC014DX-04ADD0	4	1	11	12
DCC015DX-04ADF0	4	1	11	12
DCC016DX-04AJJ0	4	2	11	12
DCC018DX-04BJK0	4	2	11	12
DCC019DX-04AFK0	4	2	11	12
DCC020DX-06AFK0	4	2	11	12
DCC021DX-04AKK0	4	2	11	12
DCC022DX-06AKK0	5	6	15	13
DCC024DX-06BKL0	5	6	20	16
DCC025DX-08BKL0	5	6	20	16
DCC027DX-06BLL0	5	6	20	16
DCC028DX-08BLL0	5	6	20	16
DCC030DX-06BLM0	5	6	21	16
DCC031DX-08BLM0	5	6	21	16
DCC032DX-06BMM0	5	6	21	16
DCC033DX-08BMM0	5	6	21	16
DCC036DX-08BMS0	6	8	21	16
DCC038DX-10BMS0	6	8	21	16
DCC039DX-08BSS0	8	9	21	16
DCC042DX-12BSS0	8	9	21	16
DCC043DX-08BST0	8	9	21	18
DCC045DX-12BST0	8	9	21	18
DCC046DX-10BTT0	8	9	21	18
DCC048DX-12BTT0	8	9	21	18
DCC051DX-10BVV0	8	9	21	18

Pump Packages

DeltaChill Freecool Models

	Pump Curve (refer to graphs)			
	Standard		External Inverter	
	Standard Head	High Head	Standard Head	High Head
DCF014SR-04AL00	2	3	12	13
DCF017SR-04AM00	6	7	12	13
DCF021SR-04BS00	6	7	13	14
DCF025SR-06BT00	8	7	16	17
DCF013DR-04ACD0	2	3	12	13
DCF014DR-04ADD0	2	3	12	13
DCF015DR-04ADF0	6	7	12	13
DCF016DR-04AJJ0	6	7	12	13
DCF018DR-04BJK0	6	7	13	14
DCF020DR-06BFK0	6	7	13	14
DCF023DR-06BKK0	6	7	13	14
DCF026DR-06BKL0	8	7	16	17
DCF029DR-06BLL0	8	9	16	17
DCF032DR-08BLM0	8	9	16	17
DCF035DR-08BMM0	8	9	16	17
DCF039DR-10BMS0	9	10	18	19
DCF044DR-10BSS0	9	10	18	19
DCF014SX-04AL00	2	3	12	13
DCF017SX-04AM00	6	7	12	13
DCF021SX-06BS00	6	7	13	14
DCF025SX-06BT00	6	7	16	17
DCF013DX-04ACD0	2	3	12	13
DCF014DX-04ADD0	2	3	12	13
DCF015DX-04ADF0	2	3	12	13
DCF016DX-04AJJ0	6	7	12	13
DCF018DX-04BJK0	6	7	13	14
DCF020DX-06BFK0	6	7	13	14
DCF023DX-06BKK0	6	7	13	14
DCF026DX-08BKL0	8	7	16	17
DCF029DX-08BLL0	8	9	16	17
DCF032DX-08BLM0	8	9	16	17
DCF035DX-08BMM0	8	9	16	17
DCF039DX-10BMS0	9	10	18	19
DCF044DX-12BSS0	9	10	18	19

Pump Packages
Single Head Pump or Run/Standby

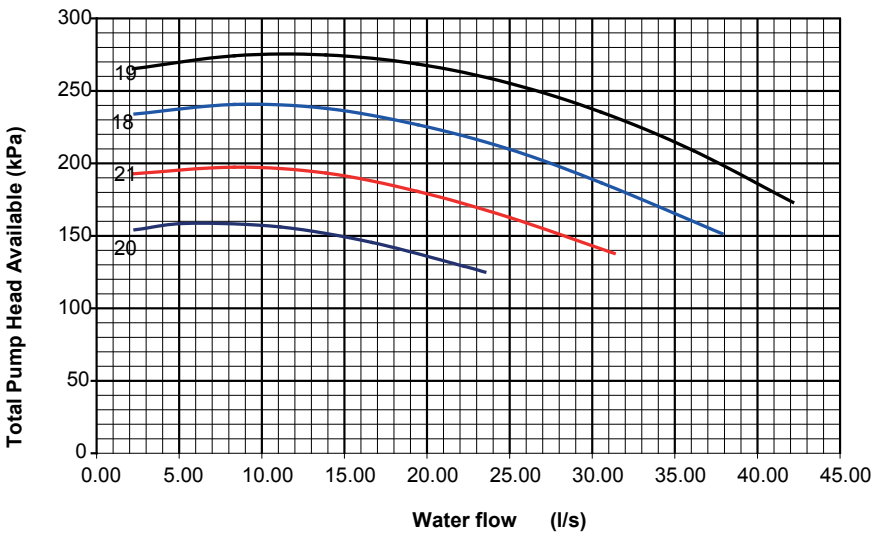
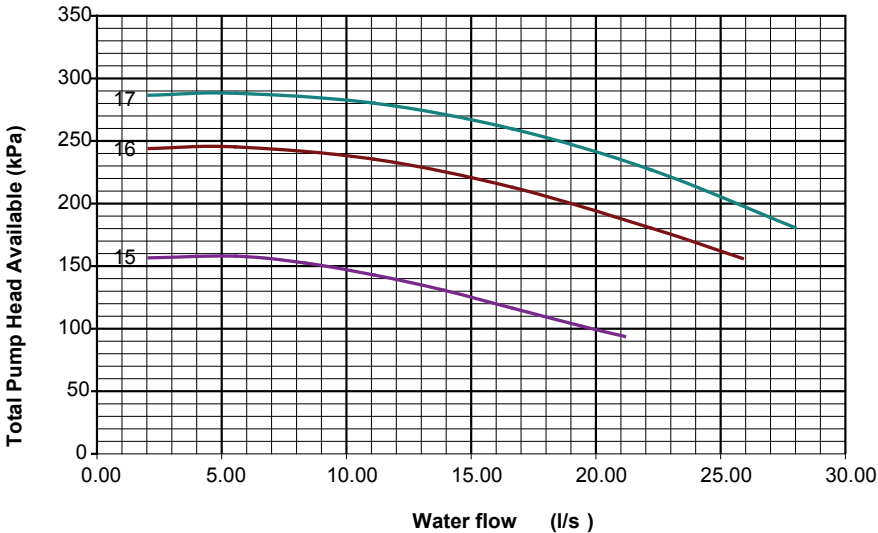
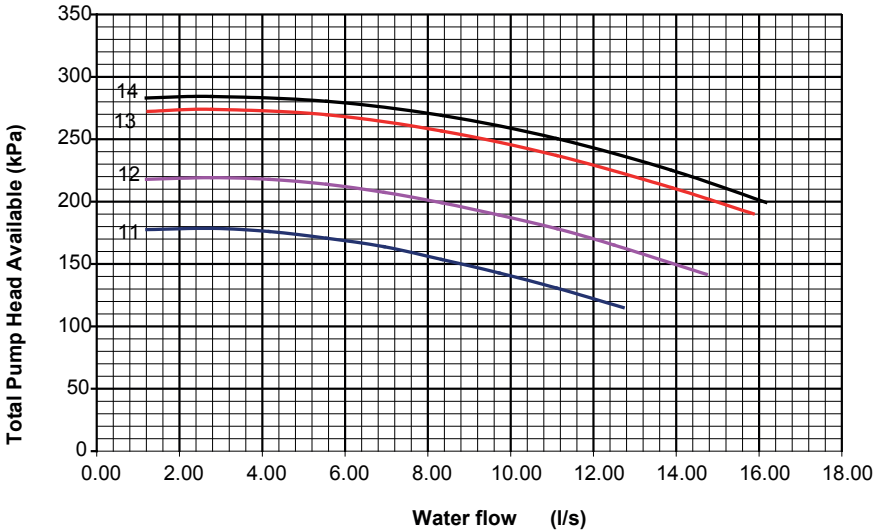


Technical

Pump Packages

Inverter Driven Pumps

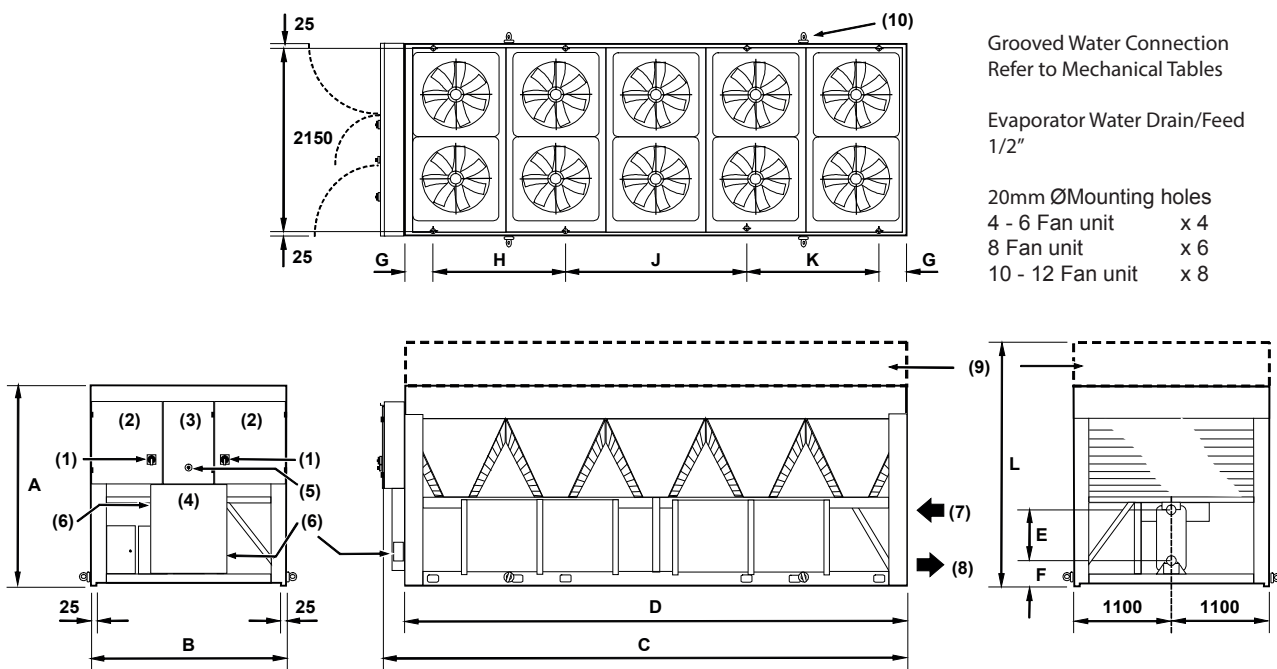
Technical



Installation Data

Dimensions

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

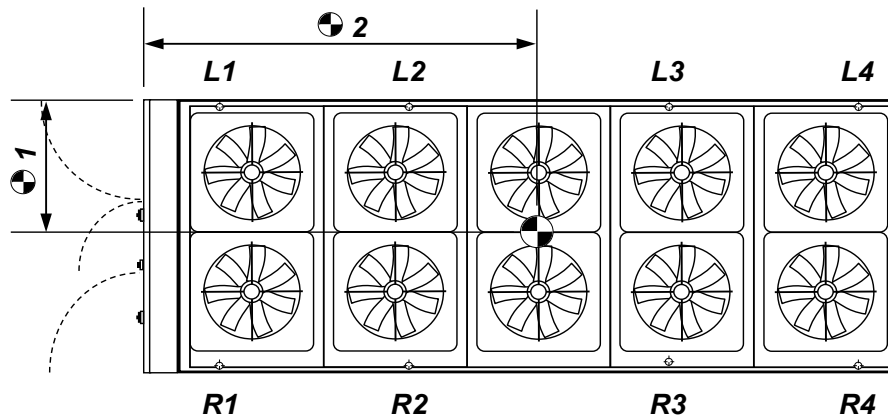


		A	B	C	D	E	F	G	H	J	K	I*
4 Fan	mm	2635	2200	2554	2270	550	196	310	1650	N/A	N/A	2905
6 Fan	mm	2645	2200	3690	3407	550	206	712	1982	N/A	N/A	2915
8 Fan	mm	2645	2200	4820	4539	550	206	416	1853	1853	N/A	2915
10 Fan	mm	2645	2200	5956	5672	550	206	311	1500	2050	1500	2915
12 Fan	mm	2645	2200	7090	6805	550	206	595	1782	2050	1782	2915

- (1) Mains Electric Isolator(s).
- (2) Electric Control Panel - Circuit 1 and Circuit 2.
- (3) Microprocessor Control Panel.
- (4) Bus Bar Chamber / Incoming Customer Mains supply.
- (5) Emergency Stop.
- (6) Mains Cable Entry and route to Busbar, unit incoming mains isolation supplied by others.
- (7) Water Connections: Water Inlet
- (8) Water Connections Water Outlet.
- (9) Optional discharge plenum extension
- (10) Lifting Eye Bolts (removable).

Installation Data

Masses, Point Loadings & Centre of Gravity (C of G)

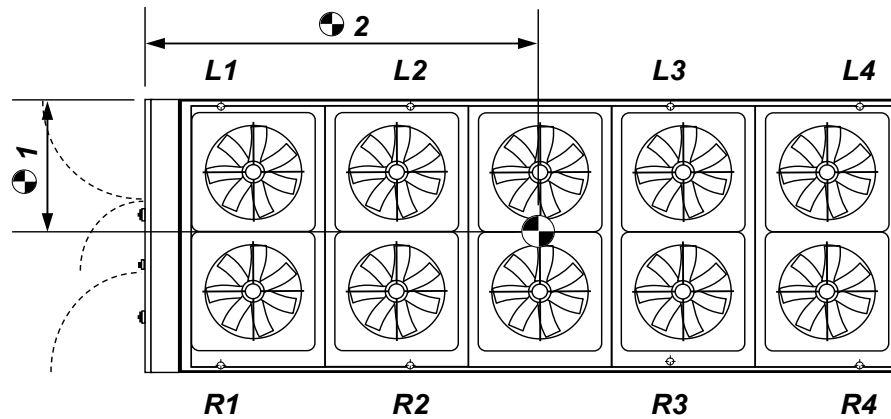


	L1	L2	L3	L4	R1	R2	R3	R4	C of G 1	C of G 2
	P1	P3	P5	P7	P2	P4	P6	P8	mm	mm
DCC011SR-04AK00	340	350			425	440			1220	1145
DCC014SR-04AL00	345	370			460	495			1255	1170
DCC017SR-04AM00	345	380			470	510			1260	1170
DCC021SR-04BS00	430	340			630	500			1305	1035
DCC023SR-04BT00	445	345			660	515			1310	1035
DCC024SR-06BT00	510	515			710	720			1275	1705
DCC011DR-04ACC0	420	280			530	350			1225	970
DCC013DR-04ACD0	420	290			545	380			1240	985
DCC014DR-04ADD0	430	290			575	390			1255	975
DCC015DR-04ADF0	435	295			585	395			1260	975
DCC016DR-04AJJ0	445	305			650	450			1300	985
DCC018DR-04BJK0	460	310			665	450			1300	975
DCC019DR-04AFK0	445	310			630	440			1280	990
DCC020DR-06AFK0	580	410			775	550			1255	1535
DCC021DR-04AKK0	460	310			670	455			1300	975
DCC022DR-06AKK0	590	415			815	570			1270	1530
DCC024DR-04BKL0	475	345			720	520			1320	1000
DCC025DR-06BKL0	605	450			860	640			1285	1560
DCC027DR-04BLL0	495	340			785	540			1340	985
DCC028DR-06BLL0	625	450			925	665			1305	1545
DCC030DR-06BLM0	635	460			940	680			1310	1545
DCC031DR-08BLM0	490	440	395		585	735	515		1275	2110
DCC032DR-06BMM0	640	460			955	685			1315	1540
DCC033DR-08BMM0	490	440	395		605	740	505		1280	2105
DCC036DR-06BMS0	645	515			1000	800			1335	1595
DCC038DR-10BMS0	435	415	395	375	560	555	550	595	1280	2705
DCC039DR-06BSS0	690	495			1125	805			1355	1535
DCC042DR-10BSS0	445	420	400	375	630	620	580	555	1300	2665
DCC043DR-08BST0	545	485	430		730	885	600		1320	2095
DCC045DR-10BST0	460	435	410	385	615	605	595	635	1300	2655
DCC046DR-08BTT0	545	490	430		740	900	610		1325	2090
DCC048DR-10BTT0	465	435	410	385	665	650	605	580	1305	2650
DCC051DR-08BVV0	545	490	430		735	895	605		1325	2085

Point loads based upon standard unit configuration

Installation Data

Masses, Point Loadings & Centre of Gravity (C of G)

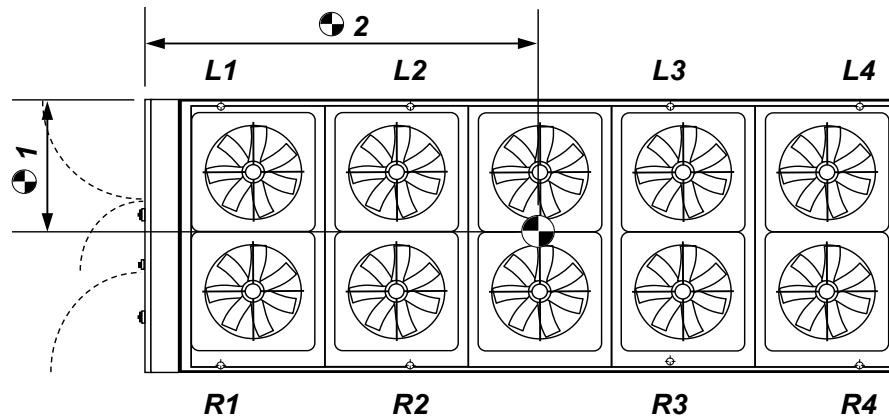


	L1 P1	L2 P3	L3 P5	L4 P7	R1 P2	R2 P4	R3 P6	R4 P8	C of G 1 mm	C of G 2 mm
DCC011SX-04AK00	375	330			500	435			1250	1080
DCC014SX-04AL00	375	350			530	495			1285	1110
DCC017SX-04AM00	380	360			540	510			1290	1110
DCC021SX-06BS00	495	530			715	765			1295	1740
DCC023SX-04BT00	445	360			705	570			1340	1050
DCC024SX-06BT00	505	540			735	790			1300	1740
DCC011DX-04ACC0	425	290			585	400			1270	980
DCC013DX-04ACD0	425	305			605	430			1285	995
DCC014DX-04ADD0	435	305			635	440			1300	985
DCC015DX-04ADF0	440	305			640	445			1300	985
DCC016DX-04AJJ0	450	320			705	500			1335	995
DCC018DX-04BJK0	465	325			720	500			1335	985
DCC019DX-04AFK0	455	325			685	490			1320	1000
DCC020DX-06AFK0	590	425			850	615			1295	1545
DCC021DX-04AKK0	465	325			725	505			1335	985
DCC022DX-06AKK0	600	430			885	635			1310	1540
DCC024DX-06BKL0	615	470			935	710			1320	1565
DCC025DX-08BKL0	480	440	395		595	755	535		1290	2130
DCC027DX-06BLL0	635	465			995	730			1335	1550
DCC028DX-08BLL0	495	445	395		640	790	540		1305	2110
DCC030DX-06BLM0	645	475			1015	745			1340	1550
DCC031DX-08BLM0	500	450	400		635	800	565		1310	2110
DCC032DX-06BMM0	650	475			1030	750			1345	1550
DCC033DX-08BMM0	500	450	405		660	810	555		1315	2110
DCC036DX-08BMS0	515	470	425		690	875	620		1330	2130
DCC038DX-10BMS0	445	420	405	380	605	600	600	645	1310	2705
DCC039DX-08BSS0	535	480	430		755	925	630		1350	2105
DCC042DX-12BSS0	515	485	465	435	755	715	685	640	1305	3230
DCC043DX-08BST0	555	495	440		780	955	650		1350	2095
DCC045DX-12BST0	525	495	475	445	715	705	700	745	1305	3225
DCC046DX-10BTT0	475	445	420	390	710	695	645	615	1330	2645
DCC048DX-12BTT0	530	500	475	445	770	750	710	680	1310	3215
DCC051DX-10BVV0	475	445	420	390	705	690	640	610	1330	2645

Point loads based upon standard unit configuration

Installation Data

Masses, Point Loadings & Centre of Gravity (C of G)



	L1	L2	L3	L4	R1	R2	R3	R4	C of G 1	C of G 2
	P1	P3	P5	P7	P2	P4	P6	P8	mm	mm
DCF014SR-04AL00	390	540			485	670			1220	1270
DCF017SR-04AM00	395	545			500	685			1225	1265
DCF021SR-04BS00	475	515			645	700			1265	1170
DCF025SR-06BT00	595	805			730	990			1210	1850
DCF013DR-04ACD0	470	455			570	555			1205	1125
DCF014DR-04ADD0	480	450			600	565			1220	1110
DCF015DR-04ADF0	485	455			610	575			1225	1110
DCF016DR-04AJJ0	500	465			675	630			1260	1105
DCF018DR-04BJK0	520	475			695	635			1255	1100
DCF020DR-06BFK0	660	645			805	790			1210	1690
DCF023DR-06BKK0	670	645			840	815			1225	1685
DCF026DR-06BKL0	705	725			880	905			1220	1715
DCF029DR-06BLL0	725	720			940	935			1240	1700
DCF032DR-08BLM0	605	605	585		720	735	730		1205	2270
DCF035DR-08BMM0	605	605	585		730	745	735		1210	2265
DCF039DR-10BMS0	555	545	555	550	655	670	675	680	1205	2875
DCF044DR-10BSS0	565	555	555	545	695	710	700	700	1225	2840
DCF014SX-04AL00	425	515			555	675			1245	1215
DCF017SX-04AM00	430	520			570	690			1250	1215
DCF021SX-06BS00	560	760			735	1000			1245	1855
DCF025SX-06BT00	585	830			755	1065			1235	1870
DCF013DX-04ACD0	475	465			625	610			1245	1125
DCF014DX-04ADD0	490	465			655	620			1255	1115
DCF015DX-04ADF0	495	465			665	625			1260	1110
DCF016DX-04AJJ0	510	480			725	685			1290	1110
DCF018DX-04BJK0	525	485			750	690			1285	1100
DCF020DX-06BFK0	670	650			875	855			1245	1690
DCF023DX-06BKK0	680	660			910	880			1255	1685
DCF026DX-08BKL0	590	600	595		720	750	755		1215	2305
DCF029DX-08BLL0	605	610	595		755	780	775		1230	2285
DCF032DX-08BLM0	615	615	595		780	795	785		1235	2265
DCF035DX-08BMM0	620	615	595		790	800	790		1240	2260
DCF039DX-10BMS0	565	555	560	555	700	720	720	725	1235	2865
DCF044DX-12BSS0	660	635	615	590	815	815	785	765	1230	3295

Point loads based upon standard unit configuration

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 appropriate spreader bars/lifting slings (provided by others) with the eye bolts/lugs provided
- Attach individual lifting chains to each of the lifting eye bolts/lifting lugs provided; each individual chain must be capable of lifting the whole unit
- Lifting eye bolt

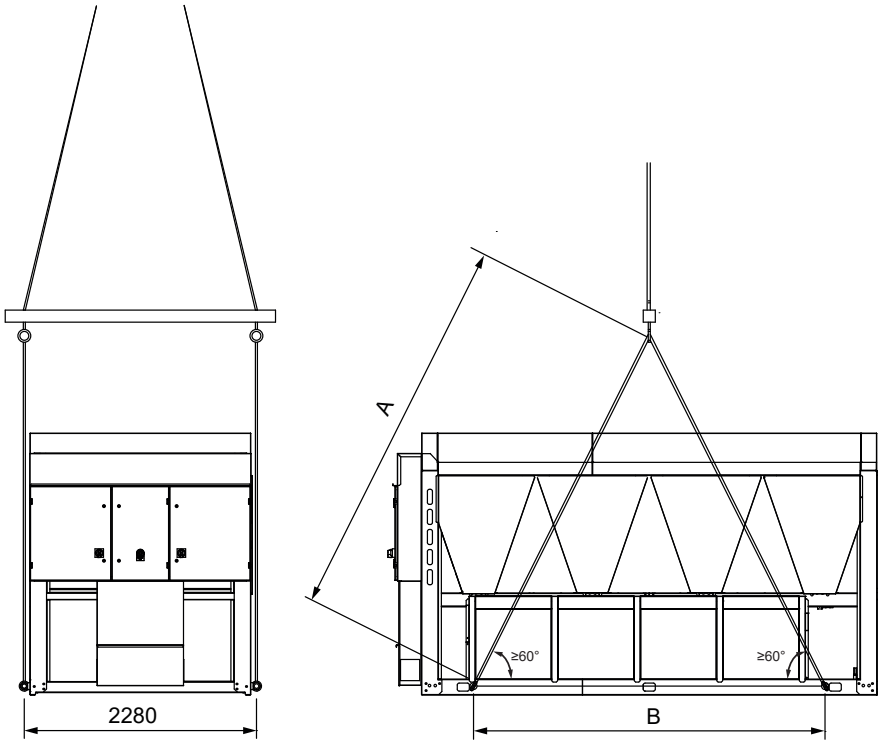
Number of Condenser Fans	4 Fan	6 Fan	8 fan	10 fan	12 fan
Eyebolt size	M30	M36	M36	M36	M36

IMPORTANT

Do not use 1 chain between 2 lifting points to avoid load shift.

- Only use lifting points provided.
- Chains/slugs MUST NOT interfere with the casing or fan assembly to avoid damage.
- Lift the unit slowly and evenly.
- If the unit is dropped, it should immediately be checked for damage and reported to Airedale.

Lifting Dimensions



	A (mm)	B (mm)
4 Fan Unit	4000	1850
6 Fan Unit	4000	2186
8 Fan Unit	4000	3502
10 Fan Unit	4000	3340
12 Fan Unit	5000	4745

Installation Data

Positioning

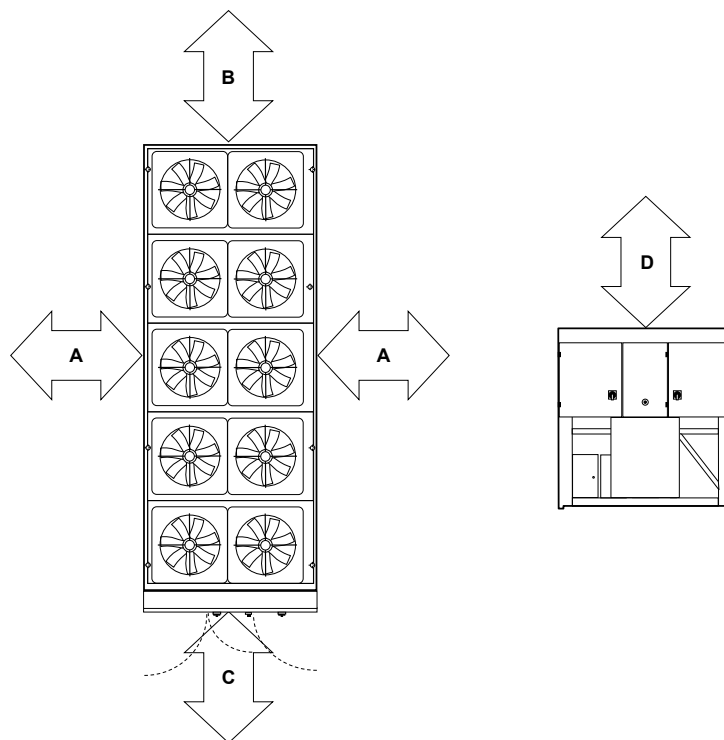
The installation position should be selected with the following points in mind:

- Position on a stable and even base, levelled to ensure that the compressor operates correctly
- Levelling should be to +/- 5mm
- Where vibration transmission to the building structure is possible, fit spring anti-vibration mounts and flexible water connections
- Observe airflow and maintenance clearances
- Pipework 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
- Increase airflow and maintenance clearances for side-enclosed or multiple unit applications
- Allow free space above the fans to prevent air recirculation
- Ensure that there is a safe access and operating area provided for unit controls.

CAUTION

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

Airflow & Maintenance Clearances



Application	Distance from Overall Base Dimension (mm)			
	A	B	C	D
Free of walls and overhang	1300	1300	1300	1300
Enclosed to A	2600	1300	1300	1300
Unit parallel with A	2600	1300	1300	1300
Enclosed to B	1300	2600	1300	1300
Unit in line with B	1300	1300	1300	1300
Unit in line with C Controls End	1300	1300	2600	1300
Enclosed to C	1300	1300	2600	1300

Installation Data
Anti Vibration Mounting (Optional)
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
	162	130	225	186	20	16

(1) Unloaded dimension

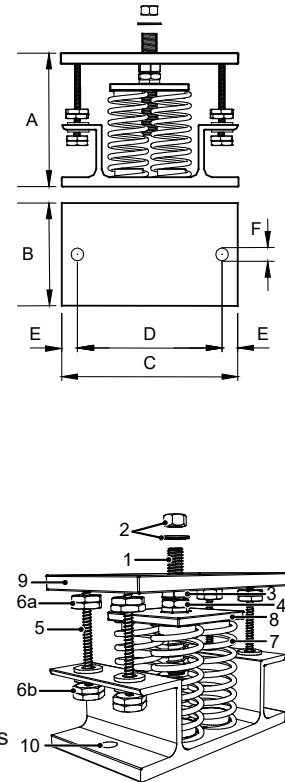
Components

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	Bolting-down holes
6a	Upper Retaining Nuts		

Installation

1. Locate and secure mount using bolting 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.

Beginning with the mount with the largest deflection adjust the height of each mount using the levelling screw (3).



CAUTION ⚠	Mountings must be adjusted incrementally in turn.
	Do not fully adjust 1 mount at a time as this may overload and damage springs.
	When all mounts are level, lock each into place using the levelling lock nut (4)
	Lock all retaining nuts (6a and 6b) to the extreme ends of the retaining studs (5)
	Do not connect any services until all anti vibration mounts have been fully adjusted.

Installation

Installation Data

Water System

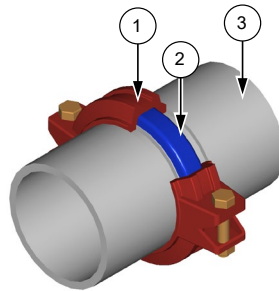
Chilled water pipe work and ancillary components must be installed in accordance with:

- National and Local Water supply company standards.
- The manufacturer's instructions are followed when fitting ancillary components.
- The system liquid is treated to prevent corrosion and algae forming.
- In ambient 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.
- The schematic is referred to as a guide to ancillary recommendations.

CAUTION ⚠

The unit water connections are NOT designed to support external pipe work, pipework MUST be supported separately.

Grooved & Clamped Type Connection



- 1 Clamp
- 2 Gasket
- 3 Counterpipe

Standard

Recommended Installation

General

The following diagram illustrates the minimum component installation requirements. A wide range of optional extras are available to suit various applications.

CAUTION ⚠

The following installation recommendations should be adhered to. Failure to do this may invalidate the chiller warranty.

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

- 1 Filter 20 Mesh (If not included within unit)
- 2 Pump
- 3 Filter 1/16"
- 4 Pressure Sensor
- 5 Flow Switch
- 6 Flushing Bypass Leg

CAUTION ⚠

Full design water flow MUST be maintained at all times. Variable water volume is NOT recommended and will invalidate warranty.

CAUTION ⚠

The correct operation of the flow proving device is critical if the Chiller warranty is to be valid.

Following components are fitted within the Chiller unit as standard:

- Temperature Sensors
- Drain Point
- Auto Air Vent

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 of the system. Acceptable water treatment levels for the system should be determined by the water treatment specialist on a project by project, system by system basis. However below is an acceptable table of requirements for Airedale Plant. Hardness of water may vary depending on location of the site.

PH (5°C – 40°C)	7.0 – 8.5	Total Hardness (mg CaCO ₃ /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 CaCO ₃ /l)	<100	Ammonium (mg NH ₄ ⁺ /l)	<1.0
Sulphate Ion (mg SO ₄ ²⁻ /l)	<200	Sulphide (mg S ²⁻ /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 pipe from blockages.

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 pre and post commissioning.

Choice of Chemicals

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

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

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, or any component within the plant and equipment, and 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.

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 Fiber	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 after the testing phase.
- 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 Data

Water Systems and Recommended Flow Schemes

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.
- 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.

CAUTION ⚠	Interlocks & Protection
	Always electrically interlock the operation of the chiller with the pump controls and water flow switch.
	These safety devices prevent the chiller operating with low water flow which can cause serious damage.

Failure to install both safety devices will invalidate the chiller warranty.
Do not rely solely on the BMS to protect

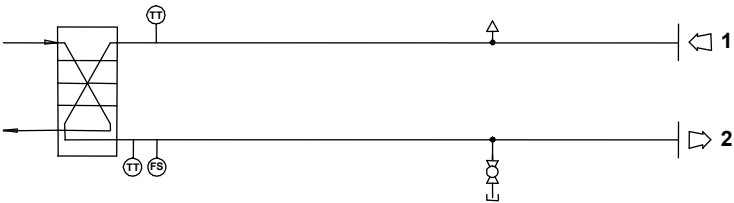
the chiller against low flow conditions.

An evaporator pump interlock or flow switch MUST be directly wired to the Chiller in addition to the flow proving device, refer to Interconnecting Wiring.

Flow Schemes

Key: 1 Water In
 2 Water Out

Basic Supplied Water Schematic
(Includes Flow Proving Device)



Installation Data

Optional Flow Schemes

Key:

- 1 Water In
- 2 Water Out

Filter Only Scheme

Comprises:

Standard Circuit plus:

Optional Extras:

- 20 Mesh Water Filter

Filter - Flushing Bypass Scheme

Comprises:

Standard Circuit plus:

Optional Extras:

- 20 Mesh Water Filter
- Flushing Bypass Circuit

Single Head Pump Scheme

Comprises:

Standard Circuit plus:

Optional Extras:

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

Single Head Run/Standby Pump Scheme

Comprises:

Standard Circuit plus: Optional Extras:

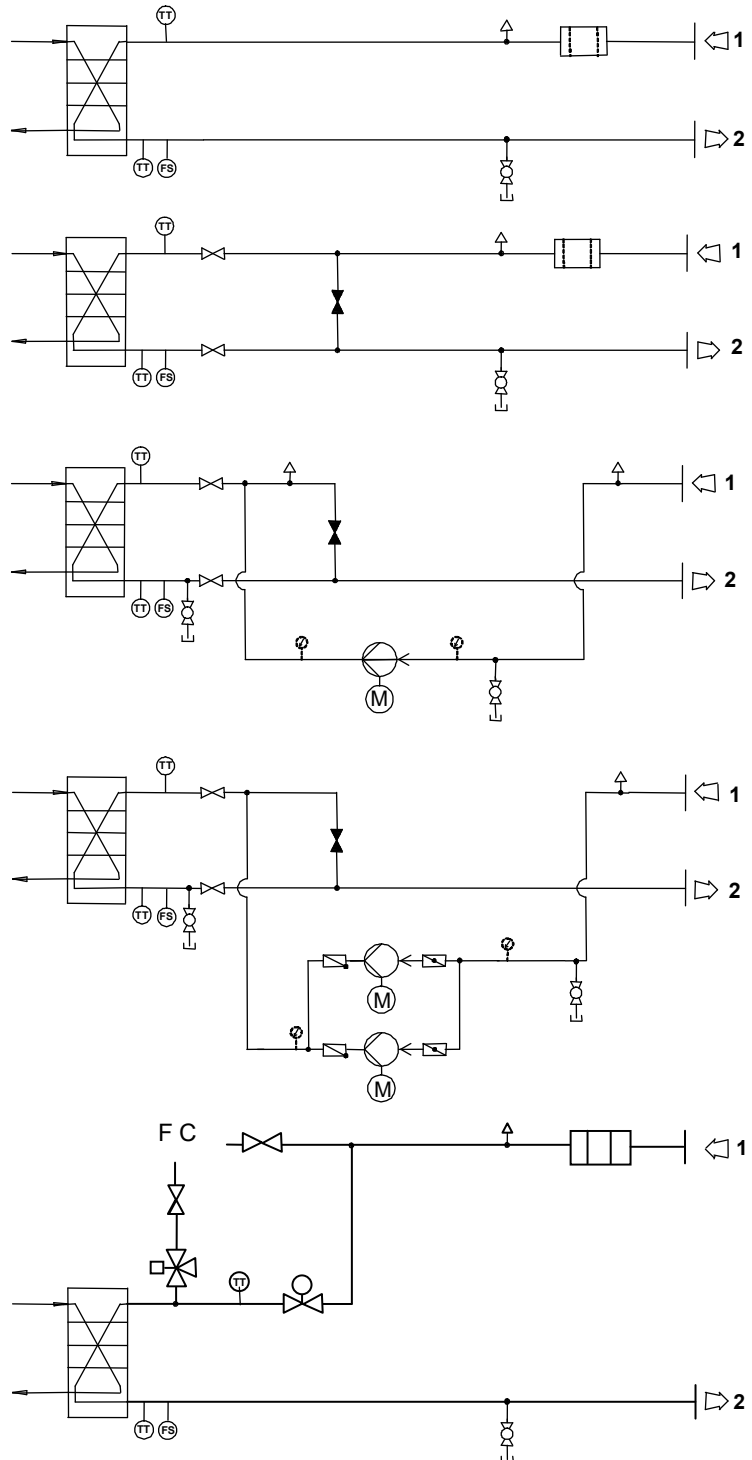
- 20 Mesh Water Filter (supplied loose)
- Flushing Bypass Circuit

- Single Head Run/Standby Pump

Standard Free Cool Circuit

Incorporating

- Double Regulating Valve
- Mixing Valve
- 20 Mesh Water Filter (supplied loose)



Installation Data

Electrical

IMPORTANT

Please refer to the electrical wiring diagrams provided for installation.

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.

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 400V, 3 phase, 3 wire 50Hz and a separate permanent 230V, 1 phase, 50Hz supply, to all relevant IEE regulations, British standards and IEC requirements.
- The control voltage to the interlocks is 24V, always size the low voltage interlock and protection cabling for a maximum voltage drop of 2V.
- Avoid large voltage drops on cable runs, particularly low voltage wiring.

CAUTION ⚠	The Emergency Stop MUST NOT be used to stop the chiller other than in the event of an emergency.
------------------	--

- A fused and isolated electrical supply of the appropriate phase, frequency and voltage should be installed.
- Wires should be capable of carrying the maximum load current under non-fault conditions at the stipulated voltage.
- A separately fused, locally isolated, permanent single phase and neutral supply MUST BE FITTED for the compressor oil heater, evaporator trace heating and control circuits, FAILURE to do so will INVALIDATE WARRANTY.
- To reduce down time, if possible support the above supply with a UPS.
- Ensure correct phase rotation.

Installation Data

Interconnecting Wiring

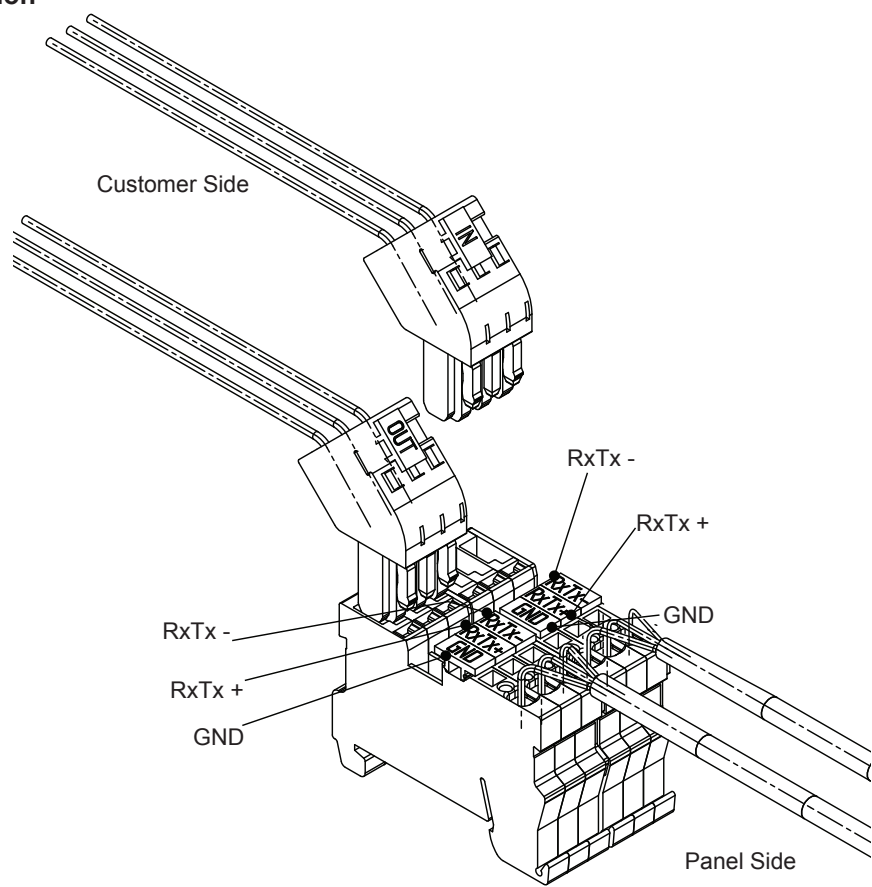
DCC22 / DCF22	L1	○	←		Mains incoming supply 400V/3PH/50Hz
	L2	○	←		
	L3	○	←		
	PE	○	←		
	L4	○	←		Separate Permanent Supply 230V/1PH/50Hz
	N1	○	←		
	PE	○	←		
	L4	○	→		External Trace Heating Connections 240V/500W max
	N1	○	→		
	502	○	→		Unit Remote On/Off 24VAC
	505	○	←		
	502	○	→	(1)	Evaporator Water Flow Switch 24VAC
	504	○	←		
	500	○	→		Remote Setpoint Adjust (0-10VDC)
	825	○	←		
	502	○	→	(1)	Remote Pump Interlock 24VAC
	515	○	←		
	502	○	→		Setback Setpoint Temperature switch
	516	○	←		
	573	○	←	Non-Critical Alarm	Volt Free Common Alarm
	574	○	→		Volt Free Alarm N/O
	575	○	→		Volt Free Alarm N/C
	576	○	←	Critical Alarm	Volt Free Common Alarm
	577	○	→		Volt Free Alarm N/O
	578	○	→		Volt Free Alarm N/C
	RX-/Tx-	○	↔	IN	Network Connections In
	RX+/Tx+	○	↔		
	GND	○	↔		
	RX-/Tx-	○	↔	OUT	Network Connections
	RX+/Tx+	○	↔		
	GND	○	↔		

CAUTION ⚠

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

Installation Data
pLAN Termination

Installation



CAUTION ⚠

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

Appendix - Ecodesign

The following tables of Ecodesign data is based on the following common information:

SEPR (Seasonal Energy Performance Ratio)

- Type of Condensing - Air Cooled Standard EC Fans.
- Refrigerant Fluid - R410A.
- 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 or with a variable 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.

Technical Data DCC

DCC011SR-04AK00, DCC014SR-04AL00, DCC017SR-04AM00

Ecodesign

	Notes:	Units	DCC011SR-04AK00	DCC014SR-04AL00	DCC017SR-04AM00
SEPR	1,3,5		6.97	6.51	6.17
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	117256	151145	196595
Rated Refrigerant Capacity P _A	1,3,5	kW	110.3	132.9	163.8
Rated Power Input D _A		kW	33.2	40.9	53.5
Rated EER _{DC,A}			3.32	3.25	3.06
Declared Refrigerant Capacity P _B	1,3,5	kW	122.5 / 64.9	147.9 / 78.4	182.9 / 97.7
Declared Power Input D _B		kW	27.0 / 13.2	33.6 / 16.3	44.3 / 21.3
Declared EER _{DC,B}			4.53 / 4.90	4.40 / 4.81	4.13 / 4.59
Declared Refrigerant Capacity P _C	1,3,5	kW	132.8 / 69.7	160.4 / 84.1	199.0 / 105.0
Declared Power Input D _C		kW	21.4 / 10.8	27.3 / 13.6	36.2 / 17.8
Declared EER _{DC,C}			6.22 / 6.46	5.89 / 6.18	5.50 / 5.90
Declared Refrigerant Capacity P _D	1,3,5	kW	142.0 / 74.3	171.4 / 89.8	213.2 / 112.3
Declared Power Input D _D		kW	15.6 / 8.1	21.3 / 10.8	28.6 / 14.2
Declared EER _{DC,D}			9.10 / 9.20	8.06 / 8.28	7.47 / 7.89
SSCEE	2,3,5	%	185.1	180.0	172.1
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity P _{rated,c}	2,4,5		110.5	133.2	164.1
Declared Cooling Capacity 35°C P _{dc}	2,3,5	kW	110.3	132.9	163.8
Declared EER _d 35°C			3.32	3.25	3.06
Declared Cooling Capacity 30°C P _{dc}	2,3,5	kW	122.7 / 63.9	148.0 / 77.1	182.8 / 96.0
Declared EER _d 30°C			4.07 / 4.44	3.96 / 4.37	3.72 / 4.18
Declared Cooling Capacity 25°C P _{dc}	2,3,5	kW	70.3 / 0.0	84.9 / 0.0	106.0 / 0.0
Declared EER _d 25°C			5.43 / 0	5.28 / 0	5.05 / 0
Declared Cooling Capacity 20°C P _{dc}	2,3,5	kW	77.1 / 0.0	93.2 / 0.0	116.6 / 0.0
Declared EER _d 20°C			6.84 / 0	6.48 / 0	6.23 / 0
Sound Power Level LWA		dB(A)	81	83	90
Air flow rate		m³/h	92736	92736	92736
Off mode P _{OFF}		kW	0.068	0.068	0.068
Thermostat-off mode P _{TO}		kW	0.562	0.631	0.811
Standby Mode P _{SB}		kW	0.088	0.088	0.088
Crankcase heater mode P _{CK}		kW	0.045	0.045	0.045

(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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC021SR-04BS00, DCC023SR-04BT00, DCC024SR-06BT00

Ecodesign

	Notes:	Units	DCC021SR-04BS00	DCC023SR-04BT00	DCC024SR-06BT00
SEPR	1,3,5		6.00	5.56	6.32
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	238353	313737	286599
Rated Refrigerant Capacity P_A	1,3,5	kW	193.2	235.4	244.4
Rated Power Input D_A		kW	65.5	87.2	81.5
Rated EER _{DC,A}			2.95	2.7	3
Declared Refrigerant Capacity P_B	1,3,5	kW	215.4 / 150.6	264.4 / 185.7	273.7 / 191.2
Declared Power Input D_B		kW	54.2 / 34.6	72.8 / 46.0	67.3 / 43.1
Declared EER _{DC,B}			3.98 / 4.35	3.63 / 4.04	4.07 / 4.44
Declared Refrigerant Capacity P_C	1,3,5	kW	233.5 / 162.4	287.4 / 200.8	298.3 / 207.3
Declared Power Input D_C		kW	44.8 / 28.8	60.8 / 38.7	55.1 / 35.5
Declared EER _{DC,C}			5.22 / 5.63	4.73 / 5.20	5.41 / 5.84
Declared Refrigerant Capacity P_D	1,3,5	kW	172.8 / 91.4	214.2 / 114.3	222.2 / 116.9
Declared Power Input D_D		kW	23.5 / 11.0	31.9 / 14.4	27.9 / 13.0
Declared EER _{DC,D}			7.36 / 8.34	6.72 / 7.94	7.95 / 9.01

SSCEE	2,3,5	%	181.6	171.9	185.7
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		193.5	235.7	244.8
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	193.2	235.4	244.4
Declared EER _a 35°C			2.95	2.7	3
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	148.8 / 77.2	183.3 / 95.9	188.8 / 97.8
Declared EER _a 30°C			3.93 / 4.34	3.65 / 4.14	4.00 / 4.38
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	164.0 / 85.0	202.7 / 105.9	208.8 / 108.0
Declared EER _a 25°C			4.73 / 5.24	4.38 / 5.00	4.85 / 5.34
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	93.3 / 0.0	116.6 / 0.0	119.0 / 0.0
Declared EER _a 20°C			6.43 / 0	6.17 / 0	6.68 / 0
Sound Power Level LWA		dB(A)	87	93	92
Air flow rate		m³/h	92736	92736	139104
Off mode P_{OFF}		kW	0.068	0.068	0.078
Thermostat-off mode P_{TO}		kW	0.809	1.007	1.128
Standby Mode P_{SB}		kW	0.088	0.094	0.098
Crankcase heater mode P_{CK}		kW	0.067	0.067	0.067

(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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC011DR-04ACC0, DCC013DR-04ACD0, DCC014DR-04ADD0

Ecodesign

	Notes:	Units	DCC011DR-04ACC0	DCC013DR-04ACD0	DCC014DR-04ADD0
SEPR	1,3,5		6.86	6.87	6.33
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	120174	132992	156427
Rated Refrigerant Capacity P_A	1,3,5	kW	111.3	123.4	133.6
Rated Power Input D_A		kW	33.1	36.8	40.7
Rated EER _{DC,A}			3.36	3.35	3.28
Declared Refrigerant Capacity P_B	1,3,5	kW	123.7 / 61.7	137.3 / 62.8	148.6 / 74.1
Declared Power Input D_B		kW	26.9 / 13.7	30.1 / 13.7	33.4 / 17.0
Declared EER _{DC,B}			4.60 / 4.51	4.56 / 4.59	4.45 / 4.37
Declared Refrigerant Capacity P_C	1,3,5	kW	134.1 / 66.9	148.9 / 68.3	160.9 / 80.3
Declared Power Input D_C		kW	21.2 / 10.8	24.1 / 10.8	27.1 / 13.8
Declared EER _{DC,C}			6.31 / 6.18	6.18 / 6.31	5.95 / 5.82
Declared Refrigerant Capacity P_D	1,3,5	kW	143.3 / 71.5	159.1 / 72.9	172.1 / 85.9
Declared Power Input D_D		kW	15.5 / 7.9	18.2 / 7.9	21.1 / 10.8
Declared EER _{DC,D}			9.27 / 9.03	8.76 / 9.27	8.15 / 7.94

SSCEE	2,3,5	%	169.0	173.2	162.7
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		111.5	123.6	133.9
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	111.3	123.4	133.6
Declared EER _a 35°C			3.36	3.35	3.28
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	123.9 / 60.1	137.4 / 60.9	148.7 / 72.1
Declared EER _a 30°C			4.12 / 3.95	4.09 / 4.00	4.00 / 3.84
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	66.2 / 0.0	67.2 / 0.0	79.5 / 0.0
Declared EER _a 25°C			4.83 / 0	4.90 / 0	4.64 / 0
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	72.4 / 0.0	73.6 / 0.0	86.9 / 0.0
Declared EER _a 20°C			5.94 / 0	6.04 / 0	5.59 / 0
Sound Power Level LWA		dB(A)	81	82	83
Air flow rate		m³/h	92736	92736	92736
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	0.537	0.547	0.632
Standby Mode P_{SB}		kW	0.098	0.098	0.098
Crankcase heater mode P_{CK}		kW	0.045	0.045	0.045

(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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC015DR-04ADF0, DCC016DR-04AJJ0, DCC018DR-04BJK0

Ecodesign

	Notes:	Units	DCC015DR-04ADF0	DCC016DR-04AJJ0	DCC018DR-04BJK0
SEPR	1,3,5		6.25	6.18	5.95
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	177125	191070	228957
Rated Refrigerant Capacity P_A	1,3,5	kW	149.3	159.3	184
Rated Power Input D_A		kW	47.1	51.7	62.6
Rated EER _{DC,A}			3.17	3.08	2.94
Declared Refrigerant Capacity P_B	1,3,5	kW	166.6 / 75.1	177.7 / 136.2	205.0 / 151.8
Declared Power Input D_B		kW	38.9 / 17.1	42.5 / 31.4	51.7 / 35.6
Declared EER _{DC,B}			4.28 / 4.40	4.18 / 4.33	3.97 / 4.27
Declared Refrigerant Capacity P_C	1,3,5	kW	181.1 / 81.5	147.0 / 101.7	163.7 / 117.8
Declared Power Input D_C		kW	31.7 / 13.9	25.8 / 16.9	29.3 / 20.5
Declared EER _{DC,C}			5.71 / 5.87	5.70 / 6.02	5.58 / 5.75
Declared Refrigerant Capacity P_D	1,3,5	kW	193.8 / 87.2	156.2 / 108.1	173.9 / 125.0
Declared Power Input D_D		kW	24.9 / 10.9	20.7 / 13.6	23.6 / 16.6
Declared EER _{DC,D}			7.78 / 8.02	7.56 / 7.96	7.37 / 7.52

SSCEE	2,3,5	%	164.6	178.3	176.1
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		149.7	159.6	184.3
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	149.3	159.3	184
Declared EER _a 35°C			3.17	3.08	2.94
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	166.6 / 72.8	135.0 / 93.3	150.3 / 108.2
Declared EER _a 30°C			3.85 / 3.86	3.90 / 4.25	3.84 / 4.09
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	80.3 / 0.0	102.8 / 50.2	119.0 / 50.0
Declared EER _a 25°C			4.66 / 0	5.16 / 4.87	4.94 / 4.84
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	87.8 / 0.0	55.0 / 0.0	54.9 / 0.0
Declared EER _a 20°C			5.62 / 0	5.96 / 0	5.92 / 0
Sound Power Level LWA		dB(A)	88	83	86
Air flow rate		m³/h	92736	92736	92736
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	0.684	0.770	0.834
Standby Mode P_{SB}		kW	0.098	0.098	0.098
Crankcase heater mode P_{CK}		kW	0.045	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC019DR-04AFK0, DCC020DR-06AFK0, DCC021DR-04AKK0

Ecodesign

	Notes:	Units	DCC019DR-04AFK0	DCC020DR-06AFK0	DCC021DR-04AKK0
SEPR	1,3,5		5.97	6.81	5.67
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	235536	212834	277393
Rated Refrigerant Capacity P_A	1,3,5	kW	189.8	195.7	212.3
Rated Power Input D_A		kW	63.9	60.0	74.2
Rated EER _{DC,A}			2.97	3.26	2.86
Declared Refrigerant Capacity P_B	1,3,5	kW	211.8 / 157.0	218.3 / 161.1	236.3 / 181.5
Declared Power Input D_B		kW	52.9 / 36.6	49.2 / 34.5	61.3 / 45.0
Declared EER _{DC,B}			4.01 / 4.29	4.44 / 4.67	3.86 / 4.03
Declared Refrigerant Capacity P_C	1,3,5	kW	169.9 / 101.9	174.6 / 105.0	195.8 / 135.6
Declared Power Input D_C		kW	30.3 / 18.6	27.9 / 17.0	37.4 / 24.3
Declared EER _{DC,C}			5.61 / 5.48	6.27 / 6.16	5.24 / 5.58
Declared Refrigerant Capacity P_D	1,3,5	kW	181.4 / 109.4	187.2 / 113.1	208.1 / 143.7
Declared Power Input D_D		kW	24.2 / 14.7	21.0 / 12.7	30.2 / 19.8
Declared EER _{DC,D}			7.50 / 7.43	8.89 / 8.89	6.88 / 7.26

SSCEE	2,3,5	%	156.5	172.5	167.3
SSCEE Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		190.1	196	212.7
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	189.8	195.7	212.3
Declared EER _a 35°C			2.97	3.26	2.86
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	155.4 / 90.2	159.5 / 92.9	180.1 / 124.6
Declared EER _a 30°C			3.86 / 3.61	4.20 / 3.94	3.63 / 4.00
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	99.9 / 0.0	102.8 / 0.0	137.1 / 67.0
Declared EER _a 25°C			4.36 / 0	4.81 / 0	4.81 / 4.56
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	109.6 / 0.0	112.9 / 0.0	73.4 / 0.0
Declared EER _a 20°C			5.26 / 0	5.89 / 0	5.56 / 0
Sound Power Level LWA		dB(A)	89	88	88
Air flow rate		m³/h	92736	139104	92736
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	0.854	0.934	1.053
Standby Mode P_{SB}		kW	0.104	0.098	0.104
Crankcase heater mode P_{CK}		kW	0.067	0.067	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC022DR-06AKK0, DCC024DR-04BKL0, DCC025DR-06BKL0

Ecodesign

	Notes:	Units	DCC022DR-06AKK0	DCC024DR-04BKL0	DCC025DR-06BKL0
SEPR	1,3,5		6.45	5.59	6.36
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	251699	307630	280599
Rated Refrigerant Capacity P_A	1,3,5	kW	219.1	232.1	240.8
Rated Power Input D_A		kW	69.3	82.6	77.2
Rated EER _{DC,A}			3.16	2.81	3.12
Declared Refrigerant Capacity P_B	1,3,5	kW	243.9 / 186.7	259.7 / 195.0	268.4 / 200.8
Declared Power Input D_B		kW	56.8 / 42.1	68.7 / 48.2	63.4 / 44.9
Declared EER _{DC,B}			4.30 / 4.44	3.78 / 4.05	4.23 / 4.47
Declared Refrigerant Capacity P_C	1,3,5	kW	201.6 / 138.8	210.4 / 149.0	216.7 / 152.8
Declared Power Input D_C		kW	34.1 / 22.6	40.2 / 27.1	36.7 / 25.2
Declared EER _{DC,C}			5.91 / 6.14	5.23 / 5.49	5.90 / 6.06
Declared Refrigerant Capacity P_D	1,3,5	kW	214.9 / 147.8	223.6 / 157.8	231.3 / 162.7
Declared Power Input D_D		kW	26.2 / 17.6	32.9 / 22.5	28.7 / 20.1
Declared EER _{DC,D}			8.19 / 8.41	6.78 / 7.02	8.05 / 8.10

SSCEE	2,3,5	%	181.5	170.2	185.6
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		219.4	232.4	241.1
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	219.1	232.1	240.8
Declared EER _a 35°C			3.16	2.81	3.12
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	185.3 / 127.4	193.2 / 136.9	198.9 / 140.1
Declared EER _a 30°C			3.99 / 4.29	3.65 / 3.97	4.02 / 4.28
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	140.2 / 68.5	150.6 / 67.1	154.2 / 68.6
Declared EER _a 25°C			5.22 / 4.91	4.76 / 4.65	5.17 / 5.01
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	75.1 / 0.0	73.5 / 0.0	75.2 / 0.0
Declared EER _a 20°C			6.08 / 0	5.68 / 0	6.22 / 0
Sound Power Level LWA		dB(A)	85	89	87
Air flow rate		m³/h	139104	92736	139104
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.190	0.770	0.835
Standby Mode P_{SB}		kW	0.098	0.104	0.098
Crankcase heater mode P_{CK}		kW	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC027DR-04BLL0, DCC028DR-06BLL0, DCC030DR-06BLM0

Ecodesign

	Notes:	Units	DCC027DR-04BLL0	DCC028DR-06BLL0	DCC030DR-06BLM0
SEPR	1,3,5		5.32	6.03	5.90
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	347884	320084	365869
Rated Refrigerant Capacity P_A	1,3,5	kW	249.7	260.4	291.1
Rated Power Input D_A		kW	91.1	85.4	98.7
Rated EER _{DC,A}			2.74	3.05	2.95
Declared Refrigerant Capacity P_B	1,3,5	kW	280.5 / 215.8	290.0 / 222.5	324.8 / 242.6
Declared Power Input D_B		kW	76.4 / 55.9	70.4 / 51.9	81.8 / 57.1
Declared EER _{DC,B}			3.67 / 3.86	4.12 / 4.29	3.97 / 4.25
Declared Refrigerant Capacity P_C	1,3,5	kW	232.5 / 161.6	240.2 / 165.9	262.1 / 186.5
Declared Power Input D_C		kW	47.1 / 30.3	43.0 / 28.2	47.5 / 32.7
Declared EER _{DC,C}			4.94 / 5.33	5.58 / 5.88	5.52 / 5.71
Declared Refrigerant Capacity P_D	1,3,5	kW	246.8 / 171.0	255.9 / 176.6	279.4 / 198.5
Declared Power Input D_D		kW	39.4 / 25.6	34.8 / 23.0	38.5 / 26.8
Declared EER _{DC,D}			6.26 / 6.68	7.36 / 7.66	7.25 / 7.41
SSCEE	2,3,5	%	162.8	178.0	176.5
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		250	260.7	291.5
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	249.7	260.4	291.1
Declared EER _a 35°C			2.74	3.05	2.95
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	213.5 / 148.6	220.6 / 152.3	240.2 / 170.8
Declared EER _a 30°C			3.49 / 3.89	3.86 / 4.21	3.83 / 4.10
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	163.4 / 79.8	167.5 / 81.8	188.2 / 82.1
Declared EER _a 25°C			4.64 / 4.45	5.06 / 4.82	4.92 / 4.82
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	87.4 / 0.0	89.7 / 0.0	90.0 / 0.0
Declared EER _a 20°C			5.33 / 0	5.85 / 0	5.84 / 0
Sound Power Level LWA		dB(A)	90	87	91
Air flow rate		m³/h	92736	139104	139104
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	0.882	0.952	1.082
Standby Mode P_{SB}		kW	0.104	0.104	0.110
Crankcase heater mode P_{CK}		kW	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC031DR-08BLM0, DCC032DR-06BMM0, DCC033DR-08BMM0

Ecodesign

	Notes:	Units	DCC031DR-08BLM0	DCC032DR-06BMM0	DCC033DR-08BMM0
SEPR	1,3,5		6.42	5.61	6.15
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	343267	421404	393533
Rated Refrigerant Capacity P_A	1,3,5	kW	297.7	319.1	326.4
Rated Power Input D_A		kW	94.2	112.0	106.7
Rated EER _{DC,A}			3.16	2.85	3.06
Declared Refrigerant Capacity P_B	1,3,5	kW	332.0 / 247.3	356.1 / 274.0	364.5 / 279.8
Declared Power Input D_B		kW	77.6 / 54.6	93.1 / 68.5	88.2 / 65.2
Declared EER _{DC,B}			4.28 / 4.53	3.82 / 4.00	4.13 / 4.29
Declared Refrigerant Capacity P_C	1,3,5	kW	267.5 / 189.8	296.3 / 206.0	303.1 / 209.8
Declared Power Input D_C		kW	44.8 / 31.1	57.2 / 37.2	53.7 / 35.3
Declared EER _{DC,C}			5.97 / 6.10	5.18 / 5.54	5.64 / 5.93
Declared Refrigerant Capacity P_D	1,3,5	kW	285.9 / 202.7	316.2 / 219.2	324.4 / 224.2
Declared Power Input D_D		kW	35.2 / 24.8	46.8 / 30.6	42.6 / 28.2
Declared EER _{DC,D}			8.12 / 8.18	6.75 / 7.16	7.62 / 7.94

SSCEE	2,3,5	%	186.5	167.7	178.4
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		298	319.5	326.8
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	297.7	319.1	326.4
Declared EER _a 35°C			3.16	2.85	3.06
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	244.9 / 173.5	271.4 / 188.4	277.2 / 191.6
Declared EER _a 30°C			4.08 / 4.30	3.61 / 3.98	3.86 / 4.20
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	191.2 / 83.3	207.8 / 101.5	211.4 / 103.2
Declared EER _a 25°C			5.20 / 5.05	4.78 / 4.56	5.07 / 4.82
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	91.3 / 0.0	111.4 / 0.0	113.4 / 0.0
Declared EER _a 20°C			6.17 / 0	5.54 / 0	5.91 / 0
Sound Power Level LWA		dB(A)	91	94	93
Air flow rate		m³/h	185472	139104	185472
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.139	1.350	1.375
Standby Mode P_{SB}		kW	0.104	0.110	0.104
Crankcase heater mode P_{CK}		kW	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC036DR-06BMS0, DCC038DR-10BMS0, DCC039DR-06BSS0

Ecodesign

	Notes:	Units	DCC036DR-06BMS0	DCC038DR-10BMS0	DCC039DR-06BSS0
SEPR	1,3,5		5.66	6.66	5.47
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	458097	407583	507152
Rated Refrigerant Capacity P_A	1,3,5	kW	350	366.3	374.6
Rated Power Input D_A		kW	124.6	114.8	137.2
Rated EER _{DC,A}			2.81	3.19	2.73
Declared Refrigerant Capacity P_B	1,3,5	kW	329.3 / 260.4	342.3 / 269.9	358.2 / 295.3
Declared Power Input D_B		kW	82.8 / 63.5	75.8 / 58.5	93.7 / 72.5
Declared EER _{DC,B}			3.98 / 4.10	4.51 / 4.61	3.82 / 4.07
Declared Refrigerant Capacity P_C	1,3,5	kW	356.7 / 282.1	371.4 / 293.1	386.7 / 317.9
Declared Power Input D_C		kW	69.2 / 52.9	61.7 / 47.4	78.6 / 61.1
Declared EER _{DC,C}			5.16 / 5.34	6.02 / 6.18	4.92 / 5.20
Declared Refrigerant Capacity P_D	1,3,5	kW	301.3 / 200.8	313.9 / 207.4	337.5 / 258.6
Declared Power Input D_D		kW	43.1 / 26.8	36.5 / 23.6	51.1 / 37.2
Declared EER _{DC,D}			7.00 / 7.49	8.61 / 8.80	6.61 / 6.96

SSCEE	2,3,5	%	170.3	189.4	174.7
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		350.3	366.6	375
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	350	366.3	374.6
Declared EER _a 35°C			2.81	3.19	2.73
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	327.2 / 256.1	340.0 / 265.2	291.9 / 221.6
Declared EER _a 30°C			3.58 / 3.67	4.05 / 4.11	3.68 / 3.83
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	188.8 / 102.4	193.8 / 105.3	244.0 / 167.9
Declared EER _a 25°C			4.93 / 4.62	5.40 / 5.07	4.59 / 5.02
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	112.5 / 0.0	115.9 / 0.0	90.4 / 0.0
Declared EER _a 20°C			5.62 / 0	6.28 / 0	5.77 / 0
Sound Power Level LWA		dB(A)	93	91	91
Air flow rate		m³/h	139104	231840	139104
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.296	1.381	1.507
Standby Mode P_{SB}		kW	0.116	0.104	0.116
Crankcase heater mode P_{CK}		kW	0.112	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC042DR-10BSS0, DCC043DR-08BST0, DCC045DR-10BST0

Ecodesign

	Notes:	Units	DCC042DR-10BSS0	DCC043DR-08BST0	DCC045DR-10BST0
SEPR	1,3,5		6.38	5.78	6.20
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	457389	550672	524044
Rated Refrigerant Capacity P_A	1,3,5	kW	393.9	429.5	438.3
Rated Power Input D_A		kW	126.3	152.3	146.6
Rated EER _{DC,A}			3.12	2.82	2.99
Declared Refrigerant Capacity P_B	1,3,5	kW	372.4 / 305.8	403.0 / 336.8	410.0 / 342.1
Declared Power Input D_B		kW	85.4 / 66.8	100.1 / 80.4	96.2 / 77.6
Declared EER _{DC,B}			4.36 / 4.58	4.03 / 4.19	4.26 / 4.41
Declared Refrigerant Capacity P_C	1,3,5	kW	402.9 / 329.8	436.5 / 363.6	444.5 / 370.0
Declared Power Input D_C		kW	70.1 / 55.1	83.3 / 67.3	79.3 / 64.3
Declared EER _{DC,C}			5.75 / 5.98	5.24 / 5.40	5.61 / 5.75
Declared Refrigerant Capacity P_D	1,3,5	kW	352.1 / 268.1	387.7 / 288.5	395.3 / 293.4
Declared Power Input D_D		kW	43.9 / 32.4	55.2 / 37.7	51.5 / 35.4
Declared EER _{DC,D}			8.02 / 8.26	7.02 / 7.66	7.67 / 8.30

SSCEE	2,3,5	%	191.8	181.2	188.7
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		394.3	429.9	438.7
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	393.9	429.5	438.3
Declared EER _a 35°C			3.12	2.82	2.99
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	302.4 / 228.5	332.6 / 245.1	337.9 / 248.3
Declared EER _a 30°C			4.13 / 4.24	3.78 / 4.03	3.98 / 4.20
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	251.8 / 171.8	270.4 / 191.0	274.0 / 193.0
Declared EER _a 25°C			5.12 / 5.44	4.86 / 5.14	5.08 / 5.32
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	92.6 / 0.0	91.8 / 0.0	92.7 / 0.0
Declared EER _a 20°C			6.28 / 0	6.06 / 0	6.27 / 0
Sound Power Level LWA		dB(A)	89	94	93
Air flow rate		m³/h	231840	185472	231840
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.631	1.806	1.822
Standby Mode P_{SB}		kW	0.110	0.116	0.110
Crankcase heater mode P_{CK}		kW	0.134	0.134	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC046DR-08BTT0, DCC048DR-10BTT0, DCC051DR-08BVV0

Ecodesign

	Notes:	Units	DCC046DR-08BTT0	DCC048DR-10BTT0	DCC051DR-08BVV0
SEPR	1,3,5		5.49	5.90	5.11
SEPR Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 1 (2018)
Annual Electricity Consumption		kWh/a	632233	600715	757506
Rated Refrigerant Capacity P_A	1,3,5	kW	468.2	478.6	522.7
Rated Power Input D_A		kW	173.4	167.3	205.0
Rated EER _{DC,A}			2.7	2.86	2.55
Declared Refrigerant Capacity P_B	1,3,5	kW	447.6 / 369.7	455.9 / 376.0	507.9 / 421.3
Declared Power Input D_B		kW	118.6 / 91.8	113.7 / 88.5	139.1 / 107.7
Declared EER _{DC,B}			3.77 / 4.03	4.01 / 4.25	3.65 / 3.91
Declared Refrigerant Capacity P_C	1,3,5	kW	485.2 / 399.7	495.1 / 407.1	454.0 / 348.8
Declared Power Input D_C		kW	99.3 / 77.2	94.3 / 73.7	92.2 / 68.1
Declared EER _{DC,C}			4.89 / 5.17	5.25 / 5.53	4.92 / 5.12
Declared Refrigerant Capacity P_D	1,3,5	kW	426.2 / 327.1	435.2 / 333.3	482.4 / 371.0
Declared Power Input D_D		kW	63.7 / 46.2	59.4 / 43.2	80.4 / 59.6
Declared EER _{DC,D}			6.69 / 7.08	7.33 / 7.72	6.00 / 6.23

SSCEE	2,3,5	%	173.3	181.2	165.9
SSCEE Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		468.7	479.1	523.2
Declared Cooling Capacity 35°C P _{dc}	2,3,5	kW	468.2	478.6	522.7
Declared EER _a 35°C			2.7	2.86	2.55
Declared Cooling Capacity 30°C P _{dc}	2,3,5	kW	365.1 / 277.5	371.2 / 281.6	416.6 / 317.2
Declared EER _a 30°C			3.64 / 3.79	3.83 / 3.97	3.53 / 3.70
Declared Cooling Capacity 25°C P _{dc}	2,3,5	kW	306.5 / 211.3	311.1 / 213.7	349.8 / 242.3
Declared EER _a 25°C			4.56 / 4.99	4.80 / 5.19	4.39 / 4.81
Declared Cooling Capacity 20°C P _{dc}	2,3,5	kW	114.0 / 0.0	115.4 / 0.0	130.4 / 0.0
Declared EER _a 20°C			5.78 / 0	6.03 / 0	5.33 / 0
Sound Power Level LWA		dB(A)	96	95	93
Air flow rate		m³/h	185472	231840	185472
Off mode P_{OFF}		kW	0.078	0.078	0.068
Thermostat-off mode P_{TO}		kW	2.223	2.260	2.861
Standby Mode P_{SB}		kW	0.116	0.110	0.088
Crankcase heater mode P_{CK}		kW	0.134	0.134	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC011SX-04AK00, DCC014SX-04AL00, DCC017SX-04AM00

Ecodesign

	Notes:	Units	DCC011SX-04AK00	DCC014SX-04AL00	DCC017SX-04AM00
SEPR	1,3,5		6.97	6.51	6.19
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	117228	150798	192841
Rated Refrigerant Capacity P_A	1,3,5	kW	110.2	132.6	161
Rated Power Input D_A		kW	33.2	40.8	53.1
Rated EER _{DC,A}			3.32	3.25	3.03
Declared Refrigerant Capacity P_B	1,3,5	kW	122.5 / 64.9	147.9 / 78.4	181.7 / 97.7
Declared Power Input D_B		kW	27.0 / 13.2	33.6 / 16.3	44.1 / 21.2
Declared EER _{DC,B}			4.53 / 4.90	4.40 / 4.81	4.12 / 4.60
Declared Refrigerant Capacity P_C	1,3,5	kW	132.9 / 69.7	160.3 / 84.1	199.0 / 105.1
Declared Power Input D_C		kW	21.4 / 10.8	27.2 / 13.6	36.2 / 17.8
Declared EER _{DC,C}			6.22 / 6.46	5.89 / 6.18	5.50 / 5.91
Declared Refrigerant Capacity P_D	1,3,5	kW	142.0 / 74.3	171.4 / 89.8	213.0 / 112.3
Declared Power Input D_D		kW	15.6 / 8.1	21.3 / 10.8	28.5 / 14.2
Declared EER _{DC,D}			9.10 / 9.20	8.06 / 8.28	7.47 / 7.91

SSCEE	2,3,5	%	185.1	180.1	171.9
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		110.5	132.9	161.3
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	110.2	132.6	161
Declared EER _a 35°C			3.32	3.25	3.03
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	122.7 / 63.9	147.9 / 77.1	180.3 / 96.1
Declared EER _a 30°C			4.07 / 4.44	3.96 / 4.37	3.69 / 4.19
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	70.3 / 0.0	84.9 / 0.0	106.0 / 0.0
Declared EER _a 25°C			5.43 / 0	5.28 / 0	5.06 / 0
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	77.1 / 0.0	93.2 / 0.0	116.6 / 0.0
Declared EER _a 20°C			6.84 / 0	6.48 / 0	6.24 / 0
Sound Power Level LWA		dB(A)	81	83	89
Air flow rate		m³/h	57168	57168	57168
Off mode P_{OFF}		kW	0.068	0.068	0.068
Thermostat-off mode P_{TO}		kW	0.560	0.618	0.770
Standby Mode P_{SB}		kW	0.088	0.088	0.094
Crankcase heater mode P_{CK}		kW	0.045	0.045	0.045

(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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC021SX-06BS00, DCC023SX-04BT00, DCC024SX-06BT00

Ecodesign

	Notes:	Units	DCC021SX-06BS00	DCC023SX-04BT00	DCC024SX-06BT00
SEPR	1,3,5		6.69	5.65	6.35
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	220295	289904	280305
Rated Refrigerant Capacity P_A	1,3,5	kW	198.8	220.9	240.1
Rated Power Input D_A		kW	61.4	88.0	80.8
Rated EER _{DC,A}			3.24	2.51	2.97
Declared Refrigerant Capacity P_B	1,3,5	kW	221.8 / 154.2	253.4 / 184.0	271.6 / 191.2
Declared Power Input D_B		kW	50.4 / 32.6	73.2 / 45.7	67.0 / 43.1
Declared EER _{DC,B}			4.40 / 4.72	3.46 / 4.03	4.05 / 4.44
Declared Refrigerant Capacity P_C	1,3,5	kW	240.6 / 166.6	200.9 / 106.9	298.3 / 207.4
Declared Power Input D_C		kW	40.9 / 26.8	38.6 / 17.9	55.1 / 35.5
Declared EER _{DC,C}			5.88 / 6.23	5.21 / 5.97	5.42 / 5.84
Declared Refrigerant Capacity P_D	1,3,5	kW	178.0 / 91.9	214.1 / 114.3	222.2 / 116.9
Declared Power Input D_D		kW	20.9 / 10.5	31.7 / 14.3	27.9 / 12.9
Declared EER _{DC,D}			8.52 / 8.79	6.74 / 8.00	7.96 / 9.04

SSCEE	2,3,5	%	194.1	171.8	186.2
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		199.1	221.3	240.4
Declared Cooling Capacity 35°C P _{dc}	2,3,5	kW	198.8	220.9	240.1
Declared EER _a 35°C			3.24	2.51	2.97
Declared Cooling Capacity 30°C P _{dc}	2,3,5	kW	152.5 / 78.4	180.9 / 96.2	188.9 / 97.8
Declared EER _a 30°C			4.25 / 4.56	3.63 / 4.16	4.00 / 4.39
Declared Cooling Capacity 25°C P _{dc}	2,3,5	kW	168.1 / 86.3	106.2 / 0.0	209.0 / 108.1
Declared EER _a 25°C			5.16 / 5.53	5.03 / 0	4.86 / 5.35
Declared Cooling Capacity 20°C P _{dc}	2,3,5	kW	94.8 / 0.0	116.9 / 0.0	119.1 / 0.0
Declared EER _a 20°C			6.86 / 0	6.22 / 0	6.70 / 0
Sound Power Level LWA			85	91	91
Air flow rate		m³/h	85752	57168	85752
Off mode P_{OFF}		kW	0.068	0.068	0.078
Thermostat-off mode P_{TO}		kW	0.838	0.875	1.026
Standby Mode P_{SB}		kW	0.088	0.094	0.098
Crankcase heater mode P_{CK}		kW	0.067	0.067	0.067

(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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC011DX-04ACC0, DCC013DX-04ACD0, DCC014DX-04ADD0

Ecodesign

	Notes:	Units	DCC011DX-04ACC0	DCC013DX-04ACD0	DCC014DX-04ADD0
SEPR	1,3,5		6.86	6.87	6.33
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	120154	132834	156112
Rated Refrigerant Capacity P_A	1,3,5	kW	111.3	123.3	133.3
Rated Power Input D_A		kW	33.1	36.8	40.6
Rated EER _{DC,A}			3.36	3.35	3.28
Declared Refrigerant Capacity P_B	1,3,5	kW	123.6 / 61.7	137.3 / 62.8	148.6 / 74.1
Declared Power Input D_B		kW	26.9 / 13.7	30.1 / 13.7	33.4 / 17.0
Declared EER _{DC,B}			4.60 / 4.51	4.56 / 4.59	4.45 / 4.37
Declared Refrigerant Capacity P_C	1,3,5	kW	134.2 / 67.0	148.9 / 68.3	161.0 / 80.3
Declared Power Input D_C		kW	21.3 / 10.8	24.1 / 10.8	27.1 / 13.8
Declared EER _{DC,C}			6.31 / 6.18	6.18 / 6.31	5.95 / 5.82
Declared Refrigerant Capacity P_D	1,3,5	kW	143.3 / 71.5	159.1 / 72.9	172.1 / 85.9
Declared Power Input D_D		kW	15.5 / 7.9	18.2 / 7.9	21.1 / 10.8
Declared EER _{DC,D}			9.27 / 9.03	8.76 / 9.27	8.15 / 7.94

SSCEE	2,3,5	%	169.0	173.3	162.8
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		111.5	123.5	133.6
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	111.3	123.3	133.3
Declared EER _a 35°C			3.36	3.35	3.28
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	123.8 / 60.0	137.4 / 60.9	148.7 / 72.1
Declared EER _a 30°C			4.12 / 3.95	4.09 / 4.00	4.00 / 3.84
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	66.2 / 0.0	67.2 / 0.0	79.5 / 0.0
Declared EER _a 25°C			4.83 / 0	4.90 / 0	4.64 / 0
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	72.4 / 0.0	73.5 / 0.0	86.9 / 0.0
Declared EER _a 20°C			5.94 / 0	6.04 / 0	5.60 / 0
Sound Power Level LWA			81	82	83
Air flow rate		m³/h	57168	57168	57168
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	0.535	0.536	0.615
Standby Mode P_{SB}		kW	0.098	0.098	0.098
Crankcase heater mode P_{CK}		kW	0.045	0.045	0.045

(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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC015DX-04ADF0, DCC016DX-04AJJ0, DCC018DX-04BJK0

Ecodesign

	Notes:	Units	DCC015DX-04ADF0	DCC016DX-04AJJ0	DCC018DX-04BJK0
SEPR	1,3,5		6.25	6.19	5.97
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	175125	187646	221202
Rated Refrigerant Capacity P_A	1,3,5	kW	147.8	156.8	178.2
Rated Power Input D_A		kW	46.9	51.2	62.5
Rated EER _{DC,A}			3.15	3.06	2.85
Declared Refrigerant Capacity P_B	1,3,5	kW	166.0 / 75.1	176.7 / 135.7	201.5 / 151.2
Declared Power Input D_B		kW	38.8 / 17.0	42.3 / 31.3	51.6 / 35.5
Declared EER _{DC,B}			4.28 / 4.41	4.17 / 4.33	3.91 / 4.26
Declared Refrigerant Capacity P_C	1,3,5	kW	181.1 / 81.6	147.0 / 101.7	163.6 / 117.8
Declared Power Input D_C		kW	31.7 / 13.9	25.8 / 16.9	29.3 / 20.5
Declared EER _{DC,C}			5.72 / 5.88	5.71 / 6.03	5.58 / 5.75
Declared Refrigerant Capacity P_D	1,3,5	kW	193.7 / 87.2	156.2 / 108.1	173.9 / 124.9
Declared Power Input D_D		kW	24.9 / 10.9	20.6 / 13.6	23.6 / 16.6
Declared EER _{DC,D}			7.79 / 8.03	7.57 / 7.97	7.38 / 7.53

SSCEE	2,3,5	%	164.5	178.4	176.1
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		148.1	157.1	178.6
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	147.8	156.8	178.2
Declared EER _a 35°C			3.15	3.06	2.85
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	165.3 / 72.8	134.0 / 93.4	149.3 / 108.2
Declared EER _a 30°C			3.84 / 3.86	3.88 / 4.26	3.83 / 4.10
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	80.3 / 0.0	102.9 / 50.2	119.1 / 50.0
Declared EER _a 25°C			4.67 / 0	5.17 / 4.88	4.95 / 4.85
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	87.8 / 0.0	55.1 / 0.0	54.8 / 0.0
Declared EER _a 20°C			5.63 / 0	5.97 / 0	5.94 / 0
Sound Power Level LWA			87	81	83
Air flow rate		m³/h	57168	57168	57168
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	0.656	0.730	0.742
Standby Mode P_{SB}		kW	0.098	0.098	0.098
Crankcase heater mode P_{CK}		kW	0.045	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC019DX-04AFK0, DCC020DX-06AFK0, DCC021DX-04AKK0

Ecodesign

	Notes:	Units	DCC019DX-04AFK0	DCC020DX-06AFK0	DCC021DX-04AKK0
SEPR	1,3,5		5.97	6.82	5.69
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	227575	211771	263900
Rated Refrigerant Capacity P_A	1,3,5	kW	183.4	194.8	202.7
Rated Power Input D_A		kW	63.7	59.8	74.0
Rated EER _{DC,A}			2.88	3.26	2.74
Declared Refrigerant Capacity P_B	1,3,5	kW	208.1 / 156.2	218.2 / 161.0	230.3 / 178.4
Declared Power Input D_B		kW	52.8 / 36.5	49.2 / 34.4	61.3 / 45.0
Declared EER _{DC,B}			3.94 / 4.28	4.44 / 4.67	3.76 / 3.96
Declared Refrigerant Capacity P_C	1,3,5	kW	169.9 / 101.9	174.6 / 105.1	194.6 / 135.6
Declared Power Input D_C		kW	30.2 / 18.5	27.9 / 17.0	37.3 / 24.2
Declared EER _{DC,C}			5.62 / 5.50	6.27 / 6.17	5.22 / 5.60
Declared Refrigerant Capacity P_D	1,3,5	kW	181.3 / 109.3	187.2 / 113.1	208.1 / 143.7
Declared Power Input D_D		kW	24.1 / 14.7	21.0 / 12.7	30.2 / 19.7
Declared EER _{DC,D}			7.52 / 7.45	8.90 / 8.89	6.90 / 7.29

SSCEE	2,3,5	%	155.3	172.6	166.9
SSCEE Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		183.7	195.1	203
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	183.4	194.8	202.7
Declared EER _a 35°C			2.88	3.26	2.74
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	154.2 / 89.0	159.5 / 92.9	175.8 / 124.9
Declared EER _a 30°C			3.85 / 3.59	4.20 / 3.95	3.55 / 4.01
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	98.9 / 0.0	102.8 / 0.0	137.4 / 67.1
Declared EER _a 25°C			4.35 / 0	4.81 / 0	4.84 / 4.59
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	108.9 / 0.0	112.9 / 0.0	73.4 / 0.0
Declared EER _a 20°C			5.26 / 0	5.89 / 0	5.60 / 0
Sound Power Level LWA			88	88	84
Air flow rate		m³/h	57168	85752	57168
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	0.779	0.895	0.934
Standby Mode P_{SB}		kW	0.104	0.098	0.104
Crankcase heater mode P_{CK}		kW	0.067	0.067	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC022DX-06AKK0, DCC024DX-06BKL0, DCC025DX-08BKL0

Ecodesign

	Notes:	Units	DCC022DX-06AKK0	DCC024DX-06BKL0	DCC025DX-08BKL0
SEPR	1,3,5		6.46	6.37	6.90
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	249240	275784	263683
Rated Refrigerant Capacity P_A	1,3,5	kW	217.3	237.1	245.5
Rated Power Input D_A		kW	69.0	76.7	73.9
Rated EER _{DC,A}			3.15	3.09	3.32
Declared Refrigerant Capacity P_B	1,3,5	kW	243.8 / 186.6	266.9 / 200.7	273.5 / 204.1
Declared Power Input D_B		kW	56.7 / 42.0	63.2 / 44.9	60.4 / 43.1
Declared EER _{DC,B}			4.30 / 4.44	4.22 / 4.47	4.53 / 4.74
Declared Refrigerant Capacity P_C	1,3,5	kW	201.6 / 138.8	216.9 / 152.9	220.7 / 155.1
Declared Power Input D_C		kW	34.1 / 22.6	36.7 / 25.2	34.7 / 24.1
Declared EER _{DC,C}			5.91 / 6.15	5.91 / 6.07	6.36 / 6.43
Declared Refrigerant Capacity P_D	1,3,5	kW	214.9 / 147.8	231.3 / 162.7	235.9 / 165.2
Declared Power Input D_D		kW	26.2 / 17.5	28.7 / 20.1	26.1 / 18.7
Declared EER _{DC,D}			8.20 / 8.43	8.06 / 8.11	9.05 / 8.85

SSCEE	2,3,5	%	181.9	185.6	195.3
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		217.7	237.4	245.8
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	217.3	237.1	245.5
Declared EER _a 35°C			3.15	3.09	3.32
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	184.7 / 127.4	198.3 / 140.2	202.3 / 141.9
Declared EER _a 30°C			3.99 / 4.30	4.02 / 4.28	4.25 / 4.47
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	140.2 / 68.5	154.3 / 68.6	156.2 / 69.4
Declared EER _a 25°C			5.22 / 4.93	5.18 / 5.02	5.43 / 5.24
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	75.1 / 0.0	75.2 / 0.0	76.1 / 0.0
Declared EER _a 20°C			6.10 / 0	6.23 / 0	6.57 / 0
Sound Power Level LWA			85	85	85
Air flow rate		m³/h	85752	85752	114336
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.101	0.793	0.852
Standby Mode P_{SB}		kW	0.104	0.110	0.104
Crankcase heater mode P_{CK}		kW	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC027DX-06BLL0, DCC028DX-08BLL0, DCC030DX-06BLM0

Ecodesign

	Notes:	Units	DCC027DX-06BLL0	DCC028DX-08BLL0	DCC030DX-06BLM0
SEPR	1,3,5		6.04	6.53	5.92
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	312332	301306	350895
Rated Refrigerant Capacity P_A	1,3,5	kW	254.8	265.4	280.2
Rated Power Input D_A		kW	84.7	81.4	98.3
Rated EER _{DC,A}			3.01	3.26	2.85
Declared Refrigerant Capacity P_B	1,3,5	kW	287.3 / 221.1	295.9 / 226.5	318.4 / 241.1
Declared Power Input D_B		kW	70.0 / 51.7	67.0 / 49.7	81.5 / 56.9
Declared EER _{DC,B}			4.10 / 4.27	4.42 / 4.56	3.90 / 4.24
Declared Refrigerant Capacity P_C	1,3,5	kW	240.2 / 166.1	244.7 / 168.6	262.1 / 186.6
Declared Power Input D_C		kW	43.0 / 28.2	40.6 / 27.0	47.4 / 32.6
Declared EER _{DC,C}			5.59 / 5.89	6.02 / 6.24	5.53 / 5.72
Declared Refrigerant Capacity P_D	1,3,5	kW	255.9 / 176.6	261.4 / 179.8	279.4 / 198.5
Declared Power Input D_D		kW	34.7 / 23.0	31.9 / 21.5	38.5 / 26.7
Declared EER _{DC,D}			7.37 / 7.67	8.19 / 8.36	7.26 / 7.43

SSCEE	2,3,5	%	177.8	187.7	176.5
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		255.1	265.7	280.5
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	254.8	265.4	280.2
Declared EER _a 35°C			3.01	3.26	2.85
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	218.2 / 152.4	224.7 / 154.4	237.9 / 171.1
Declared EER _a 30°C			3.84 / 4.22	4.10 / 4.40	3.81 / 4.11
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	167.7 / 81.9	169.9 / 83.0	188.5 / 82.2
Declared EER _a 25°C			5.07 / 4.83	5.31 / 5.05	4.94 / 4.84
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	89.7 / 0.0	91.0 / 0.0	90.1 / 0.0
Declared EER _a 20°C			5.86 / 0	6.18 / 0	5.87 / 0
Sound Power Level LWA			86	86	90
Air flow rate		m³/h	85752	114336	85752
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	0.908	0.968	0.966
Standby Mode P_{SB}		kW	0.110	0.104	0.110
Crankcase heater mode P_{CK}		kW	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 EN14511-1:2013.
- (4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.
- (5) All performance data based upon standard waterside configuration.

Technical Data

DCC031DX-08BLM0, DCC032DX-06BMM0, DCC033DX-08BMM0

Ecodesign

	Notes:	Units	DCC031DX-08BLM0	DCC032DX-06BMM0	DCC033DX-08BMM0
SEPR	1,3,5		6.43	5.64	6.16
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	339385	398493	386106
Rated Refrigerant Capacity P_A	1,3,5	kW	294.7	303.2	321.1
Rated Power Input D_A		kW	93.6	112.3	106.0
Rated $EER_{DC,A}$			3.15	2.7	3.03
Declared Refrigerant Capacity P_B	1,3,5	kW	330.8 / 247.3	346.4 / 269.1	362.1 / 278.6
Declared Power Input D_B		kW	77.4 / 54.6	93.0 / 68.4	87.8 / 65.0
Declared $EER_{DC,B}$			4.27 / 4.53	3.72 / 3.94	4.12 / 4.29
Declared Refrigerant Capacity P_C	1,3,5	kW	267.6 / 189.8	294.4 / 206.0	303.2 / 209.9
Declared Power Input D_C		kW	44.8 / 31.1	57.0 / 37.1	53.7 / 35.3
Declared $EER_{DC,C}$			5.98 / 6.10	5.16 / 5.56	5.65 / 5.94
Declared Refrigerant Capacity P_D	1,3,5	kW	285.9 / 202.7	316.2 / 219.2	324.3 / 224.2
Declared Power Input D_D		kW	35.2 / 24.8	46.7 / 30.5	42.5 / 28.2
Declared $EER_{DC,D}$			8.12 / 8.18	6.77 / 7.19	7.63 / 7.95

SSCEE	2,3,5	%	186.8	167.4	178.4
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		295	303.5	321.4
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	294.7	303.2	321.1
Declared EER_a 35°C			3.15	2.7	3.03
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	245.0 / 173.6	264.9 / 188.8	275.0 / 191.8
Declared EER_a 30°C			4.08 / 4.31	3.52 / 4.00	3.85 / 4.20
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	191.3 / 83.3	208.2 / 101.6	211.5 / 103.3
Declared EER_a 25°C			5.21 / 5.06	4.81 / 4.60	5.08 / 4.83
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	91.4 / 0.0	111.5 / 0.0	113.5 / 0.0
Declared EER_a 20°C			6.19 / 0	5.58 / 0	5.93 / 0
Sound Power Level LWA			90	92	92
Air flow rate		m³/h	114336	85752	114336
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.079	1.169	1.324
Standby Mode P_{SB}		kW	0.104	0.110	0.110
Crankcase heater mode P_{CK}		kW	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC036DX-08BMS0, DCC038DX-10BMS0, DCC039DX-08BSS0

Ecodesign

	Notes:	Units	DCC036DX-08BMS0	DCC038DX-10BMS0	DCC039DX-08BSS0
SEPR	1,3,5		6.25	6.38	6.02
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	415672	421284	460317
Rated Refrigerant Capacity P_A	1,3,5	kW	350.6	362.6	374.3
Rated Power Input D_A		kW	118.0	114.4	130.4
Rated EER _{DC,A}			2.97	3.17	2.87
Declared Refrigerant Capacity P_B	1,3,5	kW	335.6 / 264.6	339.3 / 265.9	362.7 / 301.6
Declared Power Input D_B		kW	78.4 / 60.2	76.5 / 59.7	88.4 / 69.0
Declared EER _{DC,B}			4.28 / 4.39	4.43 / 4.45	4.10 / 4.37
Declared Refrigerant Capacity P_C	1,3,5	kW	365.4 / 288.7	369.8 / 290.2	325.0 / 248.3
Declared Power Input D_C		kW	64.7 / 49.6	62.7 / 49.0	57.5 / 42.4
Declared EER _{DC,C}			5.65 / 5.82	5.90 / 5.93	5.66 / 5.86
Declared Refrigerant Capacity P_D	1,3,5	kW	309.0 / 205.1	309.5 / 205.6	346.2 / 264.6
Declared Power Input D_D		kW	39.1 / 24.8	38.6 / 24.3	46.8 / 34.2
Declared EER _{DC,D}			7.91 / 8.29	8.01 / 8.46	7.40 / 7.73

SSCEE	2,3,5	%	181.0	183.8	185.3
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		351	363	374.6
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	350.6	362.6	374.3
Declared EER _a 35°C			2.97	3.17	2.87
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	332.2 / 259.0	335.7 / 259.9	298.3 / 225.9
Declared EER _a 30°C			3.84 / 3.91	3.97 / 3.96	3.95 / 4.08
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	192.0 / 104.2	193.2 / 104.1	249.0 / 170.5
Declared EER _a 25°C			5.22 / 4.90	5.33 / 4.88	4.91 / 5.29
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	114.6 / 0.0	114.5 / 0.0	91.7 / 0.0
Declared EER _a 20°C			6.02 / 0	5.99 / 0	6.11 / 0
Sound Power Level LWA			91	91	87
Air flow rate		m³/h	114336	142920	114336
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.271	1.377	1.469
Standby Mode P_{SB}		kW	0.116	0.110	0.122
Crankcase heater mode P_{CK}		kW	0.112	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC042DX-12BSS0, DCC043DX-08BST0, DCC045DX-12BST0

Ecodesign

	Notes:	Units	DCC042DX-12BSS0	DCC043DX-08BST0	DCC045DX-12BST0
SEPR	1,3,5		6.69	5.85	6.55
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	441150	517798	497891
Rated Refrigerant Capacity P_A	1,3,5	kW	398.3	408.7	439.9
Rated Power Input D_A		kW	122.6	152.5	141.9
Rated EER _{DC,A}			3.25	2.68	3.1
Declared Refrigerant Capacity P_B	1,3,5	kW	376.6 / 308.9	397.4 / 335.2	415.0 / 345.9
Declared Power Input D_B		kW	83.0 / 65.2	99.5 / 80.0	93.4 / 75.5
Declared EER _{DC,B}			4.54 / 4.74	3.99 / 4.19	4.44 / 4.58
Declared Refrigerant Capacity P_C	1,3,5	kW	407.8 / 333.7	363.7 / 270.4	450.4 / 374.6
Declared Power Input D_C		kW	67.6 / 53.5	67.2 / 46.5	76.3 / 62.1
Declared EER _{DC,C}			6.03 / 6.24	5.41 / 5.81	5.90 / 6.03
Declared Refrigerant Capacity P_D	1,3,5	kW	356.5 / 270.2	387.6 / 288.6	400.9 / 296.6
Declared Power Input D_D		kW	41.7 / 31.3	55.1 / 37.5	48.7 / 33.6
Declared EER _{DC,D}			8.54 / 8.64	7.04 / 7.69	8.22 / 8.81

SSCEE	2,3,5	%	196.8	182.0	194.3
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		398.7	409.1	440.3
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	398.3	408.7	439.9
Declared EER _a 35°C			3.25	2.68	3.1
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	305.5 / 230.6	330.3 / 245.5	341.9 / 250.7
Declared EER _a 30°C			4.27 / 4.36	3.78 / 4.05	4.13 / 4.33
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	254.1 / 172.9	271.0 / 191.4	276.7 / 194.5
Declared EER _a 25°C			5.28 / 5.56	4.88 / 5.17	5.26 / 5.46
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	93.2 / 0.0	91.9 / 0.0	93.3 / 0.0
Declared EER _a 20°C			6.43 / 0	6.13 / 0	6.43 / 0
Sound Power Level LWA			88	92	92
Air flow rate		m³/h	171504	114336	171504
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.725	1.558	1.872
Standby Mode P_{SB}		kW	0.110	0.122	0.116
Crankcase heater mode P_{CK}		kW	0.134	0.134	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCC046DX-10BTT0, DCC048DX-12BTT0, DCC051DX-10BVV0

Ecodesign

	Notes:	Units	DCC046DX-10BTT0	DCC048DX-12BTT0	DCC051DX-10BVV0
SEPR	1,3,5		5.94	6.27	5.44
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 1 (2018)
Annual Electricity Consumption		kWh/a	576157	564453	699760
Rated Refrigerant Capacity P_A	1,3,5	kW	462.3	477.4	514.2
Rated Power Input D_A		kW	166.3	161.3	199.3
Rated EER _{DC,A}			2.78	2.96	2.58
Declared Refrigerant Capacity P_B	1,3,5	kW	450.8 / 376.0	460.1 / 380.5	508.2 / 427.3
Declared Power Input D_B		kW	113.4 / 88.4	110.0 / 86.1	133.1 / 103.1
Declared EER _{DC,B}			3.97 / 4.25	4.18 / 4.42	3.82 / 4.14
Declared Refrigerant Capacity P_C	1,3,5	kW	406.9 / 311.3	502.4 / 412.5	462.7 / 354.9
Declared Power Input D_C		kW	73.5 / 54.0	90.6 / 71.0	88.3 / 65.6
Declared EER _{DC,C}			5.53 / 5.76	5.55 / 5.81	5.24 / 5.41
Declared Refrigerant Capacity P_D	1,3,5	kW	435.2 / 333.4	441.9 / 337.7	493.0 / 376.8
Declared Power Input D_D		kW	59.2 / 43.1	56.0 / 40.9	76.7 / 57.3
Declared EER _{DC,D}			7.35 / 7.74	7.90 / 8.26	6.43 / 6.58

SSCEE	2,3,5	%	181.8	187.2	172.8
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		462.7	477.9	514.8
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	462.3	477.4	514.2
Declared EER _a 35°C			2.78	2.96	2.58
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	371.2 / 281.7	376.1 / 284.8	420.5 / 321.0
Declared EER _a 30°C			3.84 / 3.98	3.99 / 4.11	3.73 / 3.89
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	311.6 / 214.0	314.7 / 215.5	245.6 / 120.5
Declared EER _a 25°C			4.81 / 5.21	4.98 / 5.34	5.01 / 4.73
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	115.5 / 0.0	116.4 / 0.0	132.2 / 0.0
Declared EER _a 20°C			6.07 / 0	6.23 / 0	5.56 / 0
Sound Power Level LWA			94	94	89
Air flow rate		m³/h	142920	171504	142920
Off mode P_{OFF}		kW	0.078	0.078	0.098
Thermostat-off mode P_{TO}		kW	2.121	2.285	2.682
Standby Mode P_{SB}		kW	0.122	0.116	0.156
Crankcase heater mode P_{CK}		kW	0.134	0.134	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCF014SR-04AL00, DCF017SR-04AM00, DCF021SR-04BS00

Ecodesign

	Notes:	Units	DCF014SR-04AL00	DCF017SR-04AM00	DCF021SR-04BS00
SEPR	1,3,5		6.83	6.57	6.72
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	145131	186044	211065
Rated Refrigerant Capacity P_A	1,3,5	kW	133.8	164.8	191.5
Rated Power Input D_A		kW	41.9	55.1	67.4
Rated EER _{DC,A}			3.19	2.99	2.84
Declared Refrigerant Capacity P_B	1,3,5	kW	149.4 / 78.7	184.8 / 98.0	214.0 / 149.7
Declared Power Input D_B		kW	34.6 / 16.9	45.7 / 22.1	56.0 / 35.9
Declared EER _{DC,B}			4.32 / 4.67	4.04 / 4.43	3.82 / 4.17
Declared Refrigerant Capacity P_C	1,3,5	kW	162.5 / 84.7	201.7 / 105.6	232.5 / 161.7
Declared Power Input D_C		kW	28.1 / 14.2	37.5 / 18.6	46.4 / 30.1
Declared EER _{DC,C}			5.78 / 5.99	5.38 / 5.68	5.02 / 5.38
Declared Refrigerant Capacity P_D	1,3,5	kW	106.7 / 90.5	131.5 / 113.2	152.8 / 91.1
Declared Power Input D_D		kW	11.0 / 11.3	13.6 / 14.9	13.8 / 11.8
Declared EER _{DC,D}			9.71 / 7.98	9.64 / 7.57	11.04 / 7.70

SSCEE	2,3,5	%	173.3	164.2	168.9
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		134.1	165.2	191.9
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	133.8	164.8	191.5
Declared EER _a 35°C			3.19	2.99	2.84
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	149.3 / 77.3	184.3 / 96.2	147.8 / 76.7
Declared EER _a 30°C			3.88 / 4.24	3.63 / 4.03	3.77 / 4.10
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	85.2 / 0.0	106.3 / 0.0	163.0 / 84.5
Declared EER _a 25°C			5.11 / 0	4.87 / 0	4.52 / 4.92
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	93.6 / 0.0	117.1 / 0.0	92.9 / 0.0
Declared EER _a 20°C			6.26 / 0	5.99 / 0	6.01 / 0
Sound Power Level LWA		dB(A)	89	96	91
Air flow rate		m³/h	84672	84672	84672
Off mode P_{OFF}		kW	0.068	0.068	0.068
Thermostat-off mode P_{TO}		kW	0.880	1.266	1.460
Standby Mode P_{SB}		kW	0.088	0.088	0.088
Crankcase heater mode P_{CK}		kW	0.045	0.045	0.067

(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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCF025SR-06BT00, DCF013DR-04ACD0, DCF014DR-04ADD0

Ecodesign

	Notes:	Units	DCF025SR-06BT00	DCF013DR-04ACD0	DCF014DR-04ADD0
SEPR	1,3,5		7.20	6.59	6.30
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	249406	139406	157988
Rated Refrigerant Capacity P_A	1,3,5	kW	242.5	124	134.3
Rated Power Input D_A		kW	83.6	37.8	41.7
Rated EER _{DC,A}			2.9	3.28	3.22
Declared Refrigerant Capacity P_B	1,3,5	kW	272.0 / 190.2	138.3 / 63.2	149.8 / 74.8
Declared Power Input D_B		kW	69.3 / 44.5	31.0 / 14.2	34.4 / 17.6
Declared EER _{DC,B}			3.93 / 4.27	4.46 / 4.44	4.35 / 4.24
Declared Refrigerant Capacity P_C	1,3,5	kW	297.2 / 206.6	150.5 / 68.9	163.0 / 81.3
Declared Power Input D_C		kW	56.9 / 36.9	24.9 / 11.3	28.0 / 14.4
Declared EER _{DC,C}			5.22 / 5.61	6.05 / 6.08	5.82 / 5.64
Declared Refrigerant Capacity P_D	1,3,5	kW	193.5 / 116.8	98.9 / 73.6	107.1 / 87.1
Declared Power Input D_D		kW	15.4 / 13.9	11.6 / 12.9	13.0 / 16.0
Declared EER _{DC,D}			12.60 / 8.43	8.55 / 5.69	8.22 / 5.45

SSCEE	2,3,5	%	175.1	166.2	156.7
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		242.9	124.3	134.7
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	242.5	124	134.3
Declared EER _a 35°C			2.9	3.28	3.22
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	187.6 / 97.2	138.3 / 61.1	149.8 / 72.5
Declared EER _a 30°C			3.85 / 4.17	4.00 / 3.87	3.91 / 3.73
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	207.6 / 107.4	67.6 / 0.0	80.1 / 0.0
Declared EER _a 25°C			4.66 / 5.06	4.73 / 0	4.50 / 0
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	118.5 / 0.0	74.1 / 0.0	87.7 / 0.0
Declared EER _a 20°C			6.30 / 0	5.82 / 0	5.42 / 0
Sound Power Level LWA		dB(A)	98	89	89
Air flow rate		m³/h	127008	84672	84672
Off mode P_{OFF}		kW	0.068	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.644	0.766	0.886
Standby Mode P_{SB}		kW	0.094	0.098	0.098
Crankcase heater mode P_{CK}		kW	0.067	0.045	0.045

(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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCF015DR-04ADF0, DCF016DR-04AJJ0, DCF018DR-04BJK0

Ecodesign

	Notes:	Units	DCF015DR-04ADF0	DCF016DR-04AJJ0	DCF018DR-04BJK0
SEPR	1,3,5		6.37	6.52	6.35
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	174836	182214	216635
Rated Refrigerant Capacity P_A	1,3,5	kW	150.4	160.4	185.7
Rated Power Input D_A		kW	48.5	53.3	64.7
Rated EER _{DC,A}			3.1	3.01	2.87
Declared Refrigerant Capacity P_B	1,3,5	kW	168.3 / 75.8	179.5 / 137.3	207.7 / 153.3
Declared Power Input D_B		kW	40.1 / 17.8	43.9 / 32.5	53.6 / 37.0
Declared EER _{DC,B}			4.19 / 4.26	4.09 / 4.22	3.87 / 4.14
Declared Refrigerant Capacity P_C	1,3,5	kW	183.5 / 82.5	148.6 / 102.2	165.8 / 118.8
Declared Power Input D_C		kW	32.8 / 14.5	26.7 / 17.6	30.6 / 21.6
Declared EER _{DC,C}			5.60 / 5.68	5.56 / 5.80	5.41 / 5.51
Declared Refrigerant Capacity P_D	1,3,5	kW	120.0 / 88.4	127.9 / 108.9	148.2 / 126.3
Declared Power Input D_D		kW	13.8 / 16.1	13.6 / 14.2	16.0 / 17.6
Declared EER _{DC,D}			8.72 / 5.50	9.37 / 7.64	9.26 / 7.18

SSCEE	2,3,5	%	157.9	169.0	164.3
SSCEE Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		150.7	160.7	186.2
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	150.4	160.4	185.7
Declared EER _a 35°C			3.1	3.01	2.87
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	168.0 / 73.2	135.9 / 93.5	151.5 / 108.6
Declared EER _a 30°C			3.77 / 3.73	3.80 / 4.11	3.73 / 3.93
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	80.9 / 0.0	103.2 / 50.3	119.7 / 50.1
Declared EER _a 25°C			4.51 / 0	4.97 / 4.61	4.74 / 4.48
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	88.6 / 0.0	55.2 / 0.0	55.1 / 0.0
Declared EER _a 20°C			5.43 / 0	5.62 / 0	5.45 / 0
Sound Power Level LWA		dB(A)	94	87	90
Air flow rate		m³/h	84672	84672	84672
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.017	1.178	1.467
Standby Mode P_{SB}		kW	0.098	0.098	0.098
Crankcase heater mode P_{CK}		kW	0.045	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCF020DR-06BFK0, DCF023DR-06BKK0, DCF026DR-06BKL0

Ecodesign

	Notes:	Units	DCF020DR-06BFK0	DCF023DR-06BKK0	DCF026DR-06BKL0
SEPR	1,3,5		6.59	6.66	6.72
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	218428	241965	265882
Rated Refrigerant Capacity P_A	1,3,5	kW	194.2	217.3	241.3
Rated Power Input D_A		kW	61.5	71.0	79.4
Rated EER _{DC,A}			3.16	3.06	3.04
Declared Refrigerant Capacity P_B	1,3,5	kW	217.0 / 160.1	242.5 / 185.6	269.7 / 201.4
Declared Power Input D_B		kW	50.5 / 35.4	58.4 / 43.3	65.5 / 46.6
Declared EER _{DC,B}			4.30 / 4.52	4.15 / 4.28	4.12 / 4.33
Declared Refrigerant Capacity P_C	1,3,5	kW	173.9 / 104.5	200.9 / 138.3	218.1 / 153.2
Declared Power Input D_C		kW	28.8 / 17.7	35.3 / 23.5	38.2 / 26.4
Declared EER _{DC,C}			6.05 / 5.90	5.69 / 5.88	5.71 / 5.81
Declared Refrigerant Capacity P_D	1,3,5	kW	155.0 / 112.9	173.4 / 147.4	192.6 / 163.4
Declared Power Input D_D		kW	18.0 / 20.3	18.1 / 18.4	19.5 / 21.2
Declared EER _{DC,D}			8.62 / 5.56	9.60 / 8.01	9.87 / 7.73

SSCEE	2,3,5	%	164.3	171.0	173.8
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		194.6	217.8	241.7
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	194.2	217.3	241.3
Declared EER _a 35°C			3.16	3.06	3.04
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	158.3 / 92.0	183.8 / 126.4	199.2 / 140.0
Declared EER _a 30°C			4.06 / 3.79	3.85 / 4.12	3.89 / 4.12
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	101.9 / 0.0	139.2 / 67.9	154.2 / 68.5
Declared EER _a 25°C			4.61 / 0	4.99 / 4.63	4.96 / 4.68
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	112.1 / 0.0	74.5 / 0.0	75.2 / 0.0
Declared EER _a 20°C			5.63 / 0	5.69 / 0	5.77 / 0
Sound Power Level LWA		dB(A)	94	92	92
Air flow rate		m³/h	127008	127008	127008
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.265	1.632	1.524
Standby Mode P_{SB}		kW	0.104	0.104	0.104
Crankcase heater mode P_{CK}		kW	0.067	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCF029DR-06BLL0, DCF032DR-08BLM0, DCF035DR-08BMM0

Ecodesign

	Notes:	Units	DCF029DR-06BLL0	DCF032DR-08BLM0	DCF035DR-08BMM0
SEPR	1,3,5		6.36	6.75	6.48
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	304147	327709	374718
Rated Refrigerant Capacity P_A	1,3,5	kW	260.9	298.7	327.8
Rated Power Input D_A		kW	87.8	96.7	109.6
Rated EER _{DC,A}			2.97	3.09	2.99
Declared Refrigerant Capacity P_B	1,3,5	kW	291.6 / 223.3	334.1 / 248.2	367.1 / 281.2
Declared Power Input D_B		kW	72.8 / 53.9	80.0 / 56.4	91.1 / 67.5
Declared EER _{DC,B}			4.00 / 4.14	4.18 / 4.40	4.03 / 4.17
Declared Refrigerant Capacity P_C	1,3,5	kW	241.8 / 166.5	269.1 / 190.4	305.5 / 210.5
Declared Power Input D_C		kW	44.8 / 29.6	46.4 / 32.4	55.7 / 36.9
Declared EER _{DC,C}			5.40 / 5.62	5.80 / 5.88	5.48 / 5.71
Declared Refrigerant Capacity P_D	1,3,5	kW	208.3 / 177.4	238.5 / 203.8	261.7 / 225.5
Declared Power Input D_D		kW	22.8 / 24.3	24.5 / 26.0	27.8 / 29.6
Declared EER _{DC,D}			9.15 / 7.29	9.72 / 7.85	9.43 / 7.61

SSCEE	2,3,5	%	166.2	176.5	168.4
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		261.4	299.1	328.3
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	260.9	298.7	327.8
Declared EER _a 35°C			2.97	3.09	2.99
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	221.0 / 152.2	245.5 / 173.5	278.2 / 191.7
Declared EER _a 30°C			3.73 / 4.04	3.96 / 4.16	3.75 / 4.05
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	167.6 / 81.8	191.4 / 83.2	211.7 / 103.3
Declared EER _a 25°C			4.84 / 4.51	5.02 / 4.76	4.88 / 4.55
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	89.7 / 0.0	91.4 / 0.0	113.6 / 0.0
Declared EER _a 20°C			5.44 / 0	5.79 / 0	5.56 / 0
Sound Power Level LWA		dB(A)	92	97	99
Air flow rate		m³/h	127008	169344	169344
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.824	1.799	2.240
Standby Mode P_{SB}		kW	0.104	0.110	0.110
Crankcase heater mode P_{CK}		kW	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCF039DR-10BMS0, DCF044DR-10BSS0

Ecodesign

	Notes:	Units	DCF039DR-10BMS0	DCF044DR-10BSS0
SEPR	1,3,5		6.85	6.64
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	396264	440122
Rated Refrigerant Capacity P_A	1,3,5	kW	366.4	394.2
Rated Power Input D_A		kW	117.8	129.7
Rated EER _{DC,A}			3.11	3.04
Declared Refrigerant Capacity P_B	1,3,5	kW	342.9 / 270.2	373.4 / 306.2
Declared Power Input D_B		kW	78.4 / 60.7	88.4 / 69.3
Declared EER _{DC,B}			4.37 / 4.45	4.22 / 4.42
Declared Refrigerant Capacity P_C	1,3,5	kW	373.2 / 294.1	405.2 / 331.2
Declared Power Input D_C		kW	64.1 / 49.5	72.8 / 57.5
Declared EER _{DC,C}			5.82 / 5.95	5.56 / 5.76
Declared Refrigerant Capacity P_D	1,3,5	kW	292.6 / 207.8	314.8 / 269.2
Declared Power Input D_D		kW	29.7 / 25.0	33.0 / 34.3
Declared EER _{DC,D}			9.86 / 8.30	9.53 / 7.85

SSCEE	2,3,5	%	177.3	177.9
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		367	394.9
Declared Cooling Capacity 35°C P _{dc}	2,3,5	kW	366.4	394.2
Declared EER _a 35°C			3.11	3.04
Declared Cooling Capacity 30°C P _{dc}	2,3,5	kW	340.2 / 265.1	302.3 / 228.2
Declared EER _a 30°C			3.93 / 3.97	3.98 / 4.06
Declared Cooling Capacity 25°C P _{dc}	2,3,5	kW	193.4 / 105.0	251.7 / 171.4
Declared EER _a 25°C			5.14 / 4.73	4.90 / 5.13
Declared Cooling Capacity 20°C P _{dc}	2,3,5	kW	115.7 / 0.0	92.3 / 0.0
Declared EER _a 20°C			5.82 / 0	5.68 / 0
Sound Power Level LWA		dB(A)	97	94
Air flow rate		m³/h	211680	211680
Off mode P_{OFF}		kW	0.078	0.078
Thermostat-off mode P_{TO}		kW	2.435	2.875
Standby Mode P_{SB}		kW	0.116	0.116
Crankcase heater mode P_{CK}		kW	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCF014SX-04AL00, DCF017SX-04AM00, DCF021SX-06BS00

Ecodesign

	Notes:	Units	DCF014SX-04AL00	DCF017SX-04AM00	DCF021SX-06BS00
SEPR	1,3,5		7.31	6.90	7.47
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	135079	173318	195401
Rated Refrigerant Capacity P_A	1,3,5	kW	133.2	161.4	197.1
Rated Power Input D_A		kW	41.9	54.7	62.8
Rated EER _{DC,A}			3.18	2.95	3.14
Declared Refrigerant Capacity P_B	1,3,5	kW	149.4 / 78.7	182.8 / 98.0	220.7 / 153.4
Declared Power Input D_B		kW	34.6 / 16.9	45.5 / 22.0	51.9 / 33.7
Declared EER _{DC,B}			4.32 / 4.67	4.02 / 4.45	4.25 / 4.55
Declared Refrigerant Capacity P_C	1,3,5	kW	162.5 / 84.7	201.5 / 105.7	239.9 / 166.1
Declared Power Input D_C		kW	28.1 / 14.1	37.4 / 18.5	42.2 / 27.8
Declared EER _{DC,C}			5.78 / 5.99	5.39 / 5.70	5.68 / 5.98
Declared Refrigerant Capacity P_D	1,3,5	kW	106.3 / 90.5	128.7 / 113.2	157.3 / 91.8
Declared Power Input D_D		kW	9.1 / 11.3	11.7 / 14.9	12.7 / 11.1
Declared EER _{DC,D}			11.67 / 7.99	11.00 / 7.60	12.35 / 8.29

SSCEE	2,3,5	%	173.4	164.3	182.8
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		133.6	161.7	197.5
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	133.2	161.4	197.1
Declared EER _a 35°C			3.18	2.95	3.14
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	148.9 / 77.4	181.0 / 96.3	151.6 / 78.0
Declared EER _a 30°C			3.88 / 4.25	3.59 / 4.05	4.10 / 4.35
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	85.2 / 0.0	106.4 / 0.0	167.3 / 85.9
Declared EER _a 25°C			5.11 / 0	4.88 / 0	4.96 / 5.25
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	93.7 / 0.0	117.2 / 0.0	94.5 / 0.0
Declared EER _a 20°C			6.27 / 0	6.01 / 0	6.48 / 0
Sound Power Level LWA		dB(A)	83	89	85
Air flow rate		m³/h	51696	51696	77544
Off mode P_{OFF}		kW	0.068	0.068	0.068
Thermostat-off mode P_{TO}		kW	0.853	1.165	1.327
Standby Mode P_{SB}		kW	0.088	0.088	0.094
Crankcase heater mode P_{CK}		kW	0.045	0.045	0.067

(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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCF025SX-06BT00, DCF013DX-04ACD0, DCF014DX-04ADD0

Ecodesign

	Notes:	Units	DCF025SX-06BT00	DCF013DX-04ACD0	DCF014DX-04ADD0
SEPR	1,3,5		7.25	7.63	7.13
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	242467	120069	139111
Rated Refrigerant Capacity P_A	1,3,5	kW	237.3	123.7	133.8
Rated Power Input D_A		kW	82.7	37.8	41.7
Rated EER _{DC,A}			2.87	3.27	3.21
Declared Refrigerant Capacity P_B	1,3,5	kW	269.1 / 190.1	138.3 / 63.2	149.8 / 74.8
Declared Power Input D_B		kW	68.9 / 44.5	31.0 / 14.2	34.4 / 17.6
Declared EER _{DC,B}			3.91 / 4.28	4.46 / 4.44	4.35 / 4.24
Declared Refrigerant Capacity P_C	1,3,5	kW	206.6 / 108.7	150.5 / 68.9	162.9 / 81.3
Declared Power Input D_C		kW	36.8 / 17.8	24.9 / 11.3	28.0 / 14.4
Declared EER _{DC,C}			5.62 / 6.10	6.05 / 6.09	5.83 / 5.65
Declared Refrigerant Capacity P_D	1,3,5	kW	189.4 / 116.8	98.7 / 73.6	106.7 / 87.1
Declared Power Input D_D		kW	14.8 / 13.8	7.7 / 10.0	9.3 / 13.0
Declared EER _{DC,D}			12.76 / 8.47	12.75 / 7.40	11.45 / 6.71

SSCEE	2,3,5	%	175.8	166.3	156.8
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		237.8	124	134.1
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	237.3	123.7	133.8
Declared EER _a 35°C			2.87	3.27	3.21
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	187.8 / 97.3	138.1 / 61.1	149.4 / 72.4
Declared EER _a 30°C			3.86 / 4.19	4.00 / 3.87	3.91 / 3.73
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	207.9 / 107.5	67.6 / 0.0	80.1 / 0.0
Declared EER _a 25°C			4.67 / 5.08	4.73 / 0	4.50 / 0
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	118.6 / 0.0	74.1 / 0.0	87.8 / 0.0
Declared EER _a 20°C			6.33 / 0	5.82 / 0	5.42 / 0
Sound Power Level LWA		dB(A)	91	82	83
Air flow rate		m³/h	77544	51696	51696
Off mode P_{OFF}		kW	0.068	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.532	0.751	0.860
Standby Mode P_{SB}		kW	0.094	0.098	0.098
Crankcase heater mode P_{CK}		kW	0.067	0.045	0.045

(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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCF015DX-04ADF0, DCF016DX-04AJJ0, DCF018DX-04BJK0

Ecodesign

	Notes:	Units	DCF015DX-04ADF0	DCF016DX-04AJJ0	DCF018DX-04BJK0
SEPR	1,3,5		7.05	6.95	6.71
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	155755	167606	197348
Rated Refrigerant Capacity P_A	1,3,5	kW	148.3	157.3	178.8
Rated Power Input D_A		kW	48.1	52.8	64.5
Rated EER _{DC,A}			3.08	2.98	2.77
Declared Refrigerant Capacity P_B	1,3,5	kW	167.3 / 75.8	177.9 / 136.4	203.2 / 152.4
Declared Power Input D_B		kW	40.0 / 17.8	43.6 / 32.4	53.5 / 36.8
Declared EER _{DC,B}			4.18 / 4.26	4.08 / 4.22	3.80 / 4.14
Declared Refrigerant Capacity P_C	1,3,5	kW	183.4 / 82.5	148.7 / 102.4	165.8 / 118.8
Declared Power Input D_C		kW	32.7 / 14.5	26.7 / 17.6	30.5 / 21.4
Declared EER _{DC,C}			5.60 / 5.68	5.57 / 5.82	5.43 / 5.54
Declared Refrigerant Capacity P_D	1,3,5	kW	118.3 / 88.4	125.5 / 108.9	142.6 / 126.3
Declared Power Input D_D		kW	10.3 / 13.1	11.3 / 14.2	13.3 / 17.5
Declared EER _{DC,D}			11.52 / 6.76	11.13 / 7.67	10.72 / 7.24

SSCEE	2,3,5	%	157.8	169.4	165.3
SSCEE Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		148.6	157.6	179.2
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	148.3	157.3	178.8
Declared EER _a 35°C			3.08	2.98	2.77
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	166.1 / 73.1	134.5 / 93.6	150.2 / 108.8
Declared EER _a 30°C			3.74 / 3.74	3.78 / 4.12	3.72 / 3.96
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	80.9 / 0.0	103.3 / 50.3	119.9 / 50.2
Declared EER _a 25°C			4.51 / 0	4.99 / 4.63	4.77 / 4.54
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	88.7 / 0.0	55.3 / 0.0	55.1 / 0.0
Declared EER _a 20°C			5.44 / 0	5.65 / 0	5.52 / 0
Sound Power Level LWA		dB(A)	87	81	83
Air flow rate		m³/h	51696	51696	51696
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	0.956	1.088	1.280
Standby Mode P_{SB}		kW	0.098	0.098	0.098
Crankcase heater mode P_{CK}		kW	0.045	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 EN14511-1:2013.

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(5) All performance data based upon standard waterside configuration.

Technical Data

DCF020DX-06BFK0, DCF023DX-06BKK0, DCF026DX-08BKL0

Ecodesign

	Notes:	Units	DCF020DX-06BFK0	DCF023DX-06BKK0	DCF026DX-08BKL0
SEPR	1,3,5		7.46	7.18	7.82
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	191580	222089	233014
Rated Refrigerant Capacity P_A	1,3,5	kW	193	215.1	246.1
Rated Power Input D_A		kW	61.3	70.5	75.7
Rated EER _{DC,A}			3.15	3.05	3.25
Declared Refrigerant Capacity P_B	1,3,5	kW	216.6 / 160.1	241.9 / 185.3	275.1 / 204.9
Declared Power Input D_B		kW	50.6 / 35.6	58.2 / 43.2	62.2 / 44.5
Declared EER _{DC,B}			4.28 / 4.50	4.15 / 4.28	4.42 / 4.60
Declared Refrigerant Capacity P_C	1,3,5	kW	173.8 / 104.5	200.9 / 138.3	222.1 / 155.7
Declared Power Input D_C		kW	28.9 / 17.9	35.3 / 23.5	36.0 / 25.2
Declared EER _{DC,C}			6.01 / 5.84	5.70 / 5.89	6.18 / 6.19
Declared Refrigerant Capacity P_D	1,3,5	kW	154.0 / 112.9	171.6 / 147.5	196.4 / 166.0
Declared Power Input D_D		kW	12.6 / 16.0	14.6 / 18.4	14.8 / 19.6
Declared EER _{DC,D}			12.21 / 7.07	11.79 / 8.02	13.24 / 8.46

SSCEE	2,3,5	%	162.5	171.4	184.5
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		193.4	215.5	246.5
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	193	215.1	246.1
Declared EER _a 35°C			3.15	3.05	3.25
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	158.3 / 92.0	183.0 / 126.4	202.8 / 141.9
Declared EER _a 30°C			4.04 / 3.76	3.85 / 4.13	4.13 / 4.32
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	101.9 / 0.0	139.2 / 67.9	156.4 / 69.4
Declared EER _a 25°C			4.57 / 0	5.00 / 4.64	5.24 / 4.93
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	112.0 / 0.0	74.5 / 0.0	76.2 / 0.0
Declared EER _a 20°C			5.58 / 0	5.71 / 0	6.14 / 0
Sound Power Level LWA		dB(A)	88	85	85
Air flow rate		m³/h	77544	77544	103392
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.392	1.543	1.396
Standby Mode P_{SB}		kW	0.104	0.104	0.110
Crankcase heater mode P_{CK}		kW	0.067	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 EN14511-1:2013.

(4) Performance data (Gross) is supplied excluding absorbed pump power as per EN14511-1:2013.

(5) All performance data based upon standard waterside configuration.

Technical Data

DCF029DX-08BLL0, DCF032DX-08BLM0, DCF035DX-08BMM0

Ecodesign

	Notes:	Units	DCF029DX-08BLL0	DCF032DX-08BLM0	DCF035DX-08BMM0
SEPR	1,3,5		7.33	7.27	6.90
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	268782	300178	344906
Rated Refrigerant Capacity P_A	1,3,5	kW	265.8	294.7	321
Rated Power Input D_A		kW	83.6	96.0	108.8
Rated EER _{DC,A}			3.18	3.07	2.95
Declared Refrigerant Capacity P_B	1,3,5	kW	297.8 / 227.6	332.2 / 248.2	363.3 / 279.3
Declared Power Input D_B		kW	69.1 / 51.4	79.7 / 56.3	90.5 / 67.1
Declared EER _{DC,B}			4.31 / 4.43	4.17 / 4.41	4.01 / 4.16
Declared Refrigerant Capacity P_C	1,3,5	kW	246.6 / 169.2	269.2 / 190.5	305.5 / 210.8
Declared Power Input D_C		kW	42.2 / 28.3	46.4 / 32.4	55.6 / 36.8
Declared EER _{DC,C}			5.84 / 5.99	5.81 / 5.89	5.49 / 5.73
Declared Refrigerant Capacity P_D	1,3,5	kW	212.2 / 180.8	235.3 / 203.8	256.3 / 225.5
Declared Power Input D_D		kW	17.8 / 22.6	19.8 / 25.9	23.0 / 29.5
Declared EER _{DC,D}			11.91 / 7.99	11.91 / 7.87	11.15 / 7.64

SSCEE	2,3,5	%	176.8	176.9	168.8
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		266.3	295.1	321.5
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	265.8	294.7	321
Declared EER _a 35°C			3.18	3.07	2.95
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	225.1 / 154.5	245.3 / 173.6	275.2 / 191.9
Declared EER _a 30°C			3.98 / 4.25	3.97 / 4.17	3.73 / 4.06
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	170.1 / 83.0	191.5 / 83.3	211.9 / 103.3
Declared EER _a 25°C			5.11 / 4.76	5.03 / 4.78	4.90 / 4.58
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	91.1 / 0.0	91.4 / 0.0	113.7 / 0.0
Declared EER _a 20°C			5.79 / 0	5.81 / 0	5.59 / 0
Sound Power Level LWA		dB(A)	86	90	92
Air flow rate		m³/h	103392	103392	103392
Off mode P_{OFF}		kW	0.078	0.078	0.078
Thermostat-off mode P_{TO}		kW	1.658	1.690	2.062
Standby Mode P_{SB}		kW	0.110	0.110	0.110
Crankcase heater mode P_{CK}		kW	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

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(5) All performance data based upon standard waterside configuration.

Technical Data

DCF039DX-10BMS0, DCF044DX-12BSS0

Ecodesign

	Notes:	Units	DCF039DX-10BMS0	DCF044DX-12BSS0
SEPR	1,3,5		7.10	7.45
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	377767	396081
Rated Refrigerant Capacity P_A	1,3,5	kW	361.8	398.1
Rated Power Input D_A		kW	117.5	126.0
Rated EER _{DC,A}			3.08	3.16
Declared Refrigerant Capacity P_B	1,3,5	kW	339.2 / 265.4	377.8 / 309.4
Declared Power Input D_B		kW	79.0 / 61.9	85.8 / 67.6
Declared EER _{DC,B}			4.29 / 4.29	4.40 / 4.58
Declared Refrigerant Capacity P_C	1,3,5	kW	371.1 / 290.9	410.2 / 335.0
Declared Power Input D_C		kW	64.9 / 51.0	70.1 / 55.6
Declared EER _{DC,C}			5.71 / 5.71	5.85 / 6.02
Declared Refrigerant Capacity P_D	1,3,5	kW	288.9 / 206.0	317.9 / 271.4
Declared Power Input D_D		kW	25.3 / 25.7	26.2 / 32.9
Declared EER _{DC,D}			11.41 / 8.01	12.12 / 8.24

SSCEE	2,3,5	%	172.6	183.9
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		362.3	398.7
Declared Cooling Capacity 35°C P _{dc}	2,3,5	kW	361.8	398.1
Declared EER _a 35°C			3.08	3.16
Declared Cooling Capacity 30°C P _{dc}	2,3,5	kW	334.9 / 259.0	305.6 / 230.4
Declared EER _a 30°C			3.85 / 3.81	4.13 / 4.19
Declared Cooling Capacity 25°C P _{dc}	2,3,5	kW	192.8 / 103.8	254.1 / 172.6
Declared EER _a 25°C			5.09 / 4.56	5.07 / 5.27
Declared Cooling Capacity 20°C P _{dc}	2,3,5	kW	114.3 / 0.0	93.0 / 0.0
Declared EER _a 20°C			5.58 / 0	5.86 / 0
Sound Power Level LWA		dB(A)	91	88
Air flow rate		m³/h	129240	155088
Off mode P_{OFF}		kW	0.078	0.078
Thermostat-off mode P_{TO}		kW	2.288	2.730
Standby Mode P_{SB}		kW	0.116	0.122
Crankcase heater mode P_{CK}		kW	0.112	0.134

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

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(5) All performance data based upon standard waterside configuration.

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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