

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:

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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

AllowableTemperature 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

AllowableTemperature 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.

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.

Technical

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.

Contents	
Customer Services	2
Health and Safety	3
Environmental Considerations	4
Contents	5
General Description	7
Nomenclature	7
Introduction	7
Standard Features	8
Waterside	13
Waterside Options	17
Energy Saving Features	18
Minimum System Water Volume Calculations	21
Operating Limits (For 100% Water)	23
Glycol Data	23
Technical Data DCC	25
Cooling Performance DCC R Type	25
Cooling Performance DCC X type	31
Mechanical Data DCC R Type	36
Mechanical Data DCC X Type	47
Electrical data DCC R Type	58
Electrical data DCC X Type	69
Sound Data - DCC	80
DeltaChill Free Cool	84
Cooling Performance Free Cool	84
Mechanical Cooling Performance DCF R Type	86
Mechanical Cooling Performance DCF X Type	89
Mechanical Data DCF R Type	92
Mechanical Data DCF X Type	98
Electrical Data DCF R Type	104
Electrical Data DCF X Type	110
Sound Data - DCF	116
Hydronic Data	118
Water Pressure Drop - DCC	119
Water Pressure Drop - DCF	121
Evaporator Pressure Drops	122
Pump Packages	125
DeltaChill Air Cooled Models	125
DeltaChill Freecool Models	126
Single Head Pump or Run/Standby	127
Installation Data	129
Dimensions	129
Masses, Point Loadings & Centre of Gravity (C of G)	130
Unit Lifting	133
Lifting Dimensions	133
Positioning	134
Airflow & Maintenance Clearances	134
AV Mounts	135
Water System	136
Electrical	139
Interconnecting Wiring	140
pLAN Termination	141

Appendix - Ecodesign	142
DCC011SR-04AK00, DCC014SR-04AL00, DCC017SR-04AM00	143
DCC021SR-04BS00, DCC023SR-04BT00, DCC024SR-06BT00	144
DCC011DR-04ACC0, DCC013DR-04ACD0, DCC014DR-04ADD0	145
DCC015DR-04ADF0, DCC016DR-04AJJ0, DCC018DR-04BJK0	146
DCC019DR-04AFK0, DCC020DR-06AFK0, DCC021DR-04AKK0	147
DCC022DR-06AKK0, DCC024DR-04BKL0, DCC025DR-06BKL0	148
DCC027DR-04BLL0, DCC028DR-06BLL0, DCC030DR-06BLM0	149
DCC031DR-08BLM0, DCC032DR-06BMM0, DCC033DR-08BMM0	150
DCC036DR-06BMS0, DCC038DR-10BMS0, DCC039DR-06BSS0	151
DCC042DR-10BSS0, DCC043DR-08BST0, DCC045DR-10BST0	152
DCC046DR-08BTT0, DCC048DR-10BTT0, DCC051DR-08BVV0	153
DCC011SX-04AK00, DCC014SX-04AL00, DCC017SX-04AM00	154
DCC021SX-06BS00, DCC023SX-04BT00, DCC024SX-06BT00	155
DCC011DX-04ACC0, DCC013DX-04ACD0, DCC014DX-04ADD0	156
DCC015DX-04ADF0, DCC016DX-04AJJ0, DCC018DX-04BJK0	157
DCC019DX-04AFK0, DCC020DX-06AFK0, DCC021DX-04AKK0	158
DCC022DX-06AKK0, DCC024DX-06BKL0, DCC025DX-08BKL0	159
DCC027DX-06BLL0, DCC028DX-08BLL0, DCC030DX-06BLM0	160
DCC031DX-08BLM0, DCC032DX-06BMM0, DCC033DX-08BMM0	161
DCC036DX-08BMS0, DCC038DX-10BMS0, DCC039DX-08BSS0	162
DCC042DX-12BSS0, DCC043DX-08BST0, DCC045DX-12BST0	163
DCC046DX-10BTT0, DCC048DX-12BTT0, DCC051DX-10BVV0	164
DCF014SR-04AL00, DCF017SR-04AM00, DCF021SR-04BS00	165
DCF025SR-06BT00, DCF013DR-04ACD0, DCF014DR-04ADD0	166
DCF015DR-04ADF0, DCF016DR-04AJJ0, DCF018DR-04BJK0	167
DCF020DR-06BFK0, DCF023DR-06BKK0, DCF026DR-06BKL0	168
DCF029DR-06BLL0, DCF032DR-08BLM0, DCF035DR-08BMM0	169
DCF039DR-10BMS0, DCF044DR-10BSS0	170
DCF014SX-04AL00, DCF017SX-04AM00, DCF021SX-06BS00	171
DCF025SX-06BT00, DCF013DX-04ACD0, DCF014DX-04ADD0	172
DCF015DX-04ADF0, DCF016DX-04AJJ0, DCF018DX-04BJK0	173
DCF020DX-06BFK0, DCF023DX-06BKK0, DCF026DX-08BKL0	174
DCF029DX-08BLL0, DCF032DX-08BLM0, DCF035DX-08BMM0	175
DCF039DX-10BMS0, DCF044DX-12BSS0	176

General Description

Nomenclature

	DC	F	44	D	R-	10	B	S	S	0
DC	DeltaChill									
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.



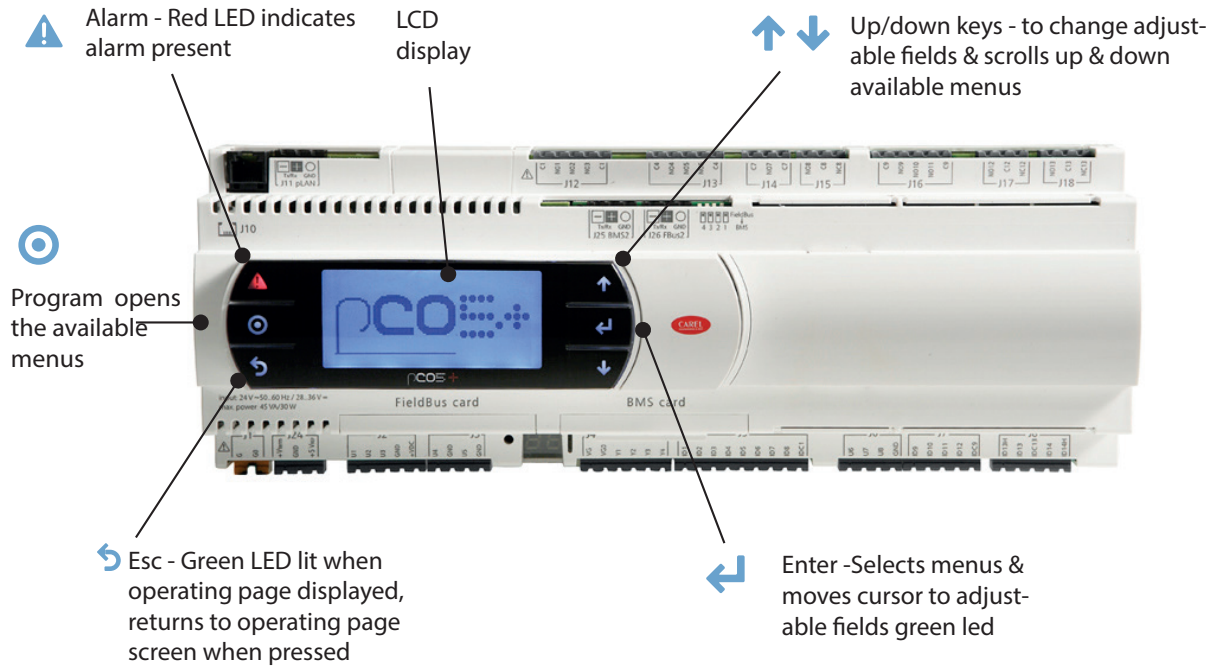
Controls

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.
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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.
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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.
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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.

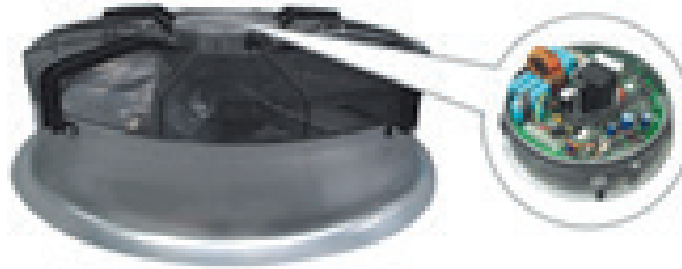
Water Filter

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

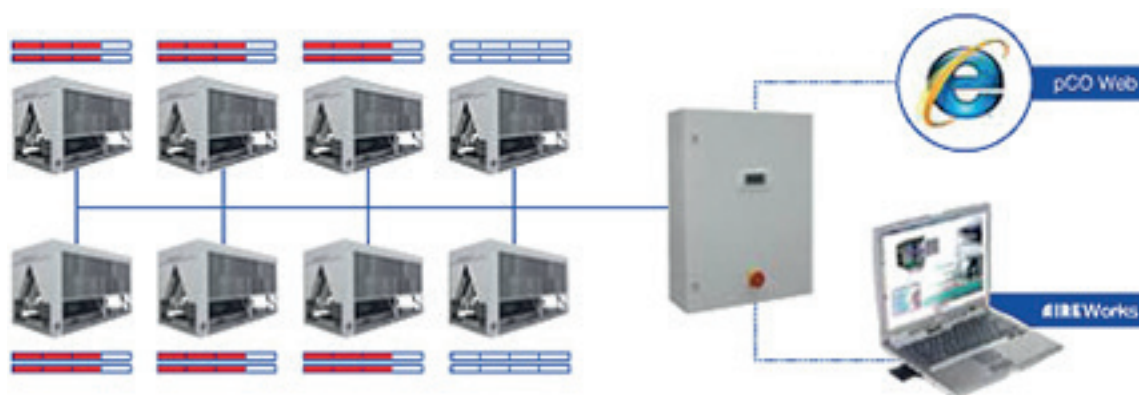
Chiller Sequence Manager

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.
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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

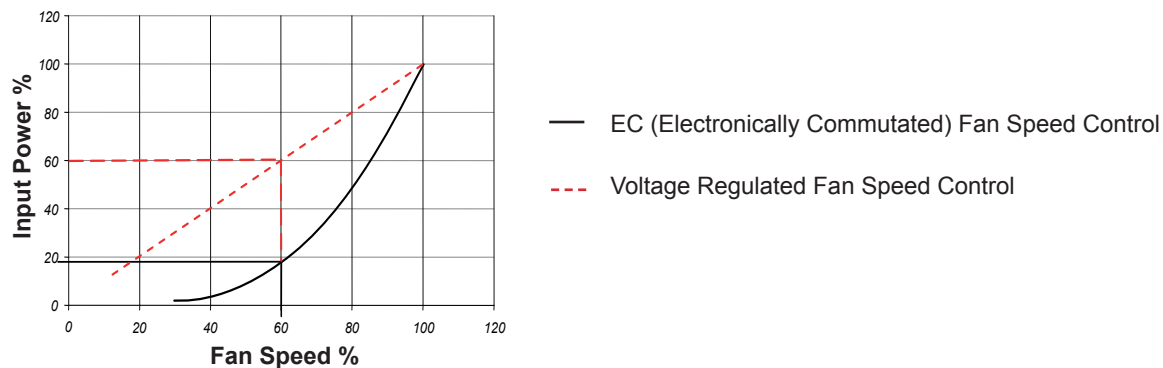
Electronically Commutated (EC) Fan Motor

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.

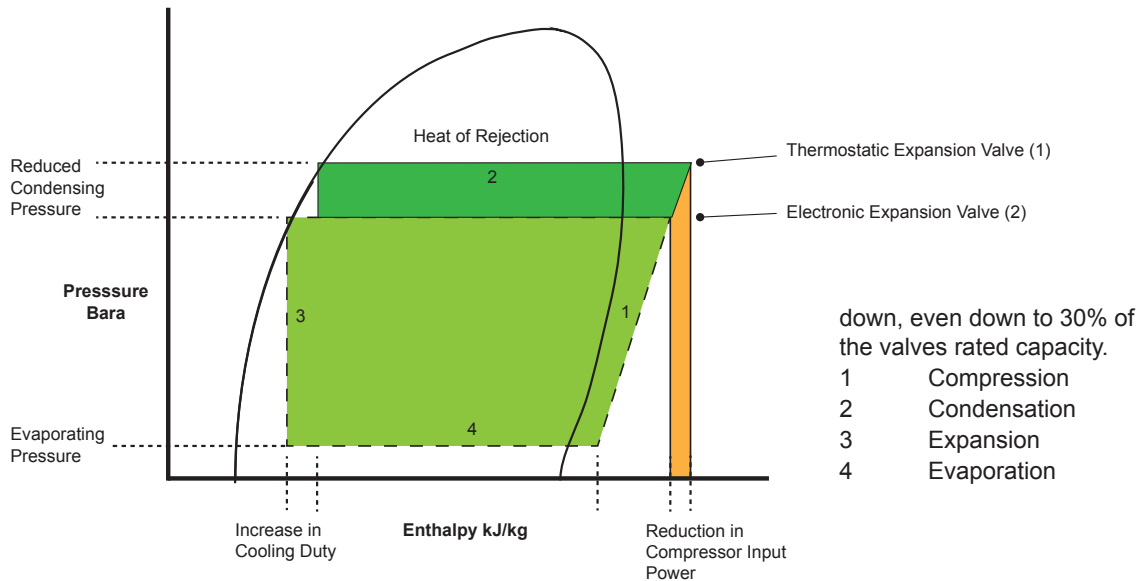
Design Features & Information

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

$$\begin{aligned} \text{Unit capacity at design conditions} &= 326 \text{ kW} \\ \text{Permanent Heat Load} &= 129.6 \text{ kW} \\ \text{Minimum Turndown} &= 27\% \end{aligned}$$

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

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

$$\begin{aligned} \text{Unit capacity at design conditions} &= 326 \text{ kW} \\ \text{Minimum Turndown} &= 27\% (0.27) \end{aligned}$$

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

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.

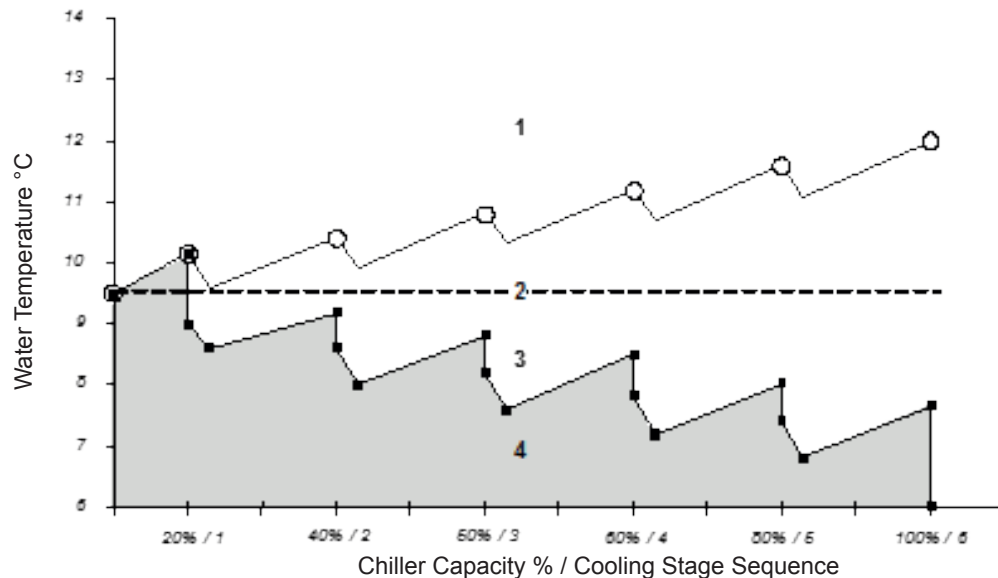
The microprocessor maintains the set supply Chilled Water temperature by sensing the return and supply water temperatures and ambient air temperature and adjusting the compressor loading as required.

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

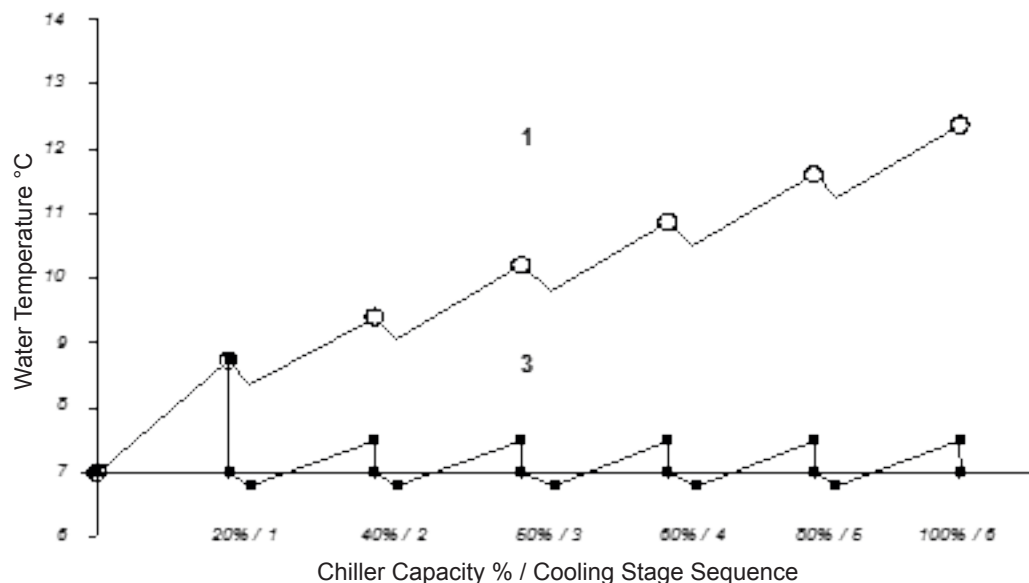
Key:

- 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	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.

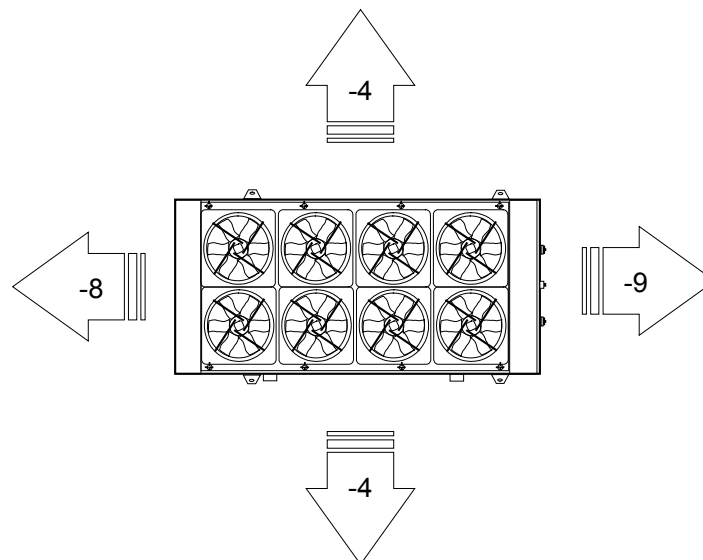
Sound Pressure Levels are calculated from sound power using the expanded parallelepiped method according to BS EN ISO 11203: 2009

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 $\times$ 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
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 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
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 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
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 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
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 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
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 x 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

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 x 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 x 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
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 x 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 x ΔT)
- 6 For conditions outside of those quoted please refer to Airedale.

Technical Data

Mechanical Data DCC R Type

			DCC011SR-04AK00	DCC014SR-04AL00	DCC017SR-04AM00
Number of Refrigeration Circuits			1	1	1
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	110.8	133.6	165.5
Nominal Input - Mechanical		kW	32.4	39.9	53.2
EER	(2)		3.42	3.35	3.11
ESEER	(3)		4.53	4.45	4.13
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	55-100	55-100	55-100
Minimum Turndown Ratio			0.54	0.54	0.55
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554
Mass					
Machine	(6)	kg	1495	1515	1640
Operating		kg	1520	1545	1670
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	8.6	11.0	13.2
Total Maximum Water flow		l/s	7.3	9.2	10.7
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	9.50	9.50	9.50
Nominal Airflow - EC Fans		m ³ /s	24.2	24.2	24.2
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Tandem	Tandem	Tandem
Quantity of Compressors			2	2	2
Oil Charge Volume (Total)		l	2 x 6.7	2 x 6.7	2 x 7.2
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	26	27	27
GWP Tonnes Equivalent CO ₂		tCO ₂	54	56	56
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1028	1242	1548
Maximum System Operating Pressure		Bar	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

			DCC021SR-04BS00	DCC023SR-04BT00	DCC024SR-06BT00
Number of Refrigeration Circuits			1	1	1
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	194.2	237.5	247.0
Nominal Input - Mechanical		kW	64.1	86.4	81.1
EER	(2)		3.03	2.75	3.05
ESEER	(3)		4.49	4.13	4.44
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	40-70-100	40-70-100	40-70-100
Minimum Turndown Ratio			0.38	0.39	0.38
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2645 x 2200 x 3690
Mass					
Machine	(6)	kg	1690	1895	2345
Operating		kg	1725	1940	2395
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	20.3	25.7	25.7
Total Maximum Water flow		l/s	13.1	14.2	15.9
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	9.50	9.50	14.25
Nominal Airflow - EC Fans		m ³ /s	24.2	24.2	36.3
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	6
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Trio	Trio	Trio
Quantity of Compressors			3	3	3
Oil Charge Volume (Total)		l	3 x 6.7	3 x 7.2	3 x 7.2
Oil Type			Polyol Ester		
Refrigeration					
Refrigerant Precharged / GWP			R410A / 2088		
Charge (Total)		kg	27	39	42
GWP Tonnes Equivalent CO ₂		tCO ₂	56	81	88
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1261	1569	1599
Maximum System Operating Pressure		Bar	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

			DCC011DR-04ACC0	DCC013DR-04ACD0	DCC014DR-04ADD0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	111.9	124.0	134.3
Nominal Input - Mechanical		kW	32.3	36.0	39.7
EER	(2)		3.46	3.44	3.38
ESEER	(3)		4.28	4.38	4.15
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	50-100	45-100	50-100
Minimum Turndown Ratio			0.50	0.46	0.50
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554
Mass					
Machine	(6)	kg	1515	1530	1530
Operating		kg	1540	1555	1560
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	9.2	11.2	11.2
Total Maximum Water flow		l/s	7.4	8.4	9.2
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	9.50	9.50	9.50
Nominal Airflow - EC Fans		m ³ /s	24.2	24.2	24.2
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Single + Single	Single + Single	Single + Single
Quantity of Compressors			2	2	2
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 6.7
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	15 + 15	15 + 16	15 + 16
GWP Tonnes Equivalent CO ₂		tCO ₂	63	65	65
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	958	974	1150
Maximum System Operating Pressure		Bar	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

			DCC015DR-04ADF0	DCC016DR-04AJJ0	DCC018DR-04BJK0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	150.6	160.6	185.2
Nominal Input - Mechanical		kW	46.6	50.2	61.2
EER	(2)		3.23	3.20	3.03
ESEER	(3)		4.19	4.47	4.40
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	45-100	25-55-75-100	25-55-75-100
Minimum Turndown Ratio			0.45	0.27	0.24
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554
Mass					
Machine	(6)	kg	1600	1640	1740
Operating		kg	1630	1670	1780
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	13.2	13.2	18.0
Total Maximum Water flow		l/s	10.0	10.4	11.9
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	9.50	9.50	9.50
Nominal Airflow - EC Fans		m ³ /s	24.2	24.2	24.2
Sickle Bladed Fan			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Single + Single	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			2	4	4
Oil Charge Volume (Total)		l	1 x 6.7 + 1 x 7.2	2 x 3.6 + 2 x 3.6	2 x 3.6 + 2 x 6.7
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	16 + 16	16 + 16	17 + 18
GWP Tonnes Equivalent CO ₂		tCO ₂	67	67	73
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1165	751	752
Maximum System Operating Pressure		Bar	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

			DCC019DR-04AFK0	DCC020DR-06AFK0	DCC021DR-04AKK0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	191.3	197.0	213.5
Nominal Input - Mechanical		kW	63.0	59.1	72.4
EER	(2)		3.03	3.33	2.95
ESEER	(3)		3.93	4.29	4.17
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	45-75-100	45-75-100	25-55-75-100
Minimum Turndown Ratio			0.44	0.44	0.27
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2645 x 2200 x 3690	2635 x 2200 x 2554
Mass					
Machine	(6)	kg	1750	2215	1820
Operating		kg	1785	2255	1855
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	18.8	18.8	18.8
Total Maximum Water flow		l/s	11.6	12.9	13.0
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	9.50	14.25	9.50
Nominal Airflow - EC Fans		m ³ /s	24.2	36.3	24.2
Sickle Bladed Fan			Sickle Bladed Fan		
Quantity			4	6	4
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Single + Tandem	Single + Tandem	Tandem + Tandem
Quantity of Compressors			3	3	4
Oil Charge Volume (Total)		l	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			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	17 + 17	23 + 24	17 + 17
GWP Tonnes Equivalent CO ₂		tCO ₂	71	98	71
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1448	1490	1001
Maximum System Operating Pressure		Bar	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

			DCC022DR-06AKK0	DCC024DR-04BKL0	DCC025DR-06BKL0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	220.1	232.9	241.9
Nominal Input - Mechanical		kW	67.6	80.9	75.6
EER	(2)		3.26	2.88	3.20
ESEER	(3)		4.51	4.20	4.56
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	25-55-75-100	25-55-75-100	25-55-75-100
Minimum Turndown Ratio			0.27	0.25	0.25
Dimensions (H x W x L)		mm	2645 x 2200 x 3690	2635 x 2200 x 2554	2645 x 2200 x 3690
Mass					
Machine	(6)	kg	2285	1880	2350
Operating		kg	2330	1935	2415
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	18.8	26.1	26.1
Total Maximum Water flow		l/s	14.4	14.4	16.2
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	14.25	9.50	14.25
Nominal Airflow - EC Fans		m ³ /s	36.3	24.2	36.3
Sickle Bladed Fan			Sickle Bladed Fan		
Quantity			6	4	6
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Tandem + Tandem	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			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
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	23 + 24	19 + 20	25 + 27
GWP Tonnes Equivalent CO ₂		tCO ₂	98	81	109
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1023	1006	1029
Maximum System Operating Pressure		Bar	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

			DCC027DR-04BLL0	DCC028DR-06BLL0	DCC030DR-06BLM0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	250.2	261.6	293.3
Nominal Input - Mechanical		kW	89.2	83.5	97.6
EER	(2)		2.80	3.13	3.00
ESEER	(3)		4.05	4.41	4.33
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	30-55-80-100	25-55-75-100	25-55-75-100
Minimum Turndown Ratio			0.28	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
Mass					
Machine	(6)	kg	1890	2360	2495
Operating		kg	1945	2425	2565
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	26.1	26.1	30.6
Total Maximum Water flow		l/s	15.7	17.8	18.2
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	9.50	14.25	14.25
Nominal Airflow - EC Fans		m ³ /s	24.2	36.3	36.3
Sickle Bladed Fan			Sickle Bladed Fan		
Quantity			4	6	6
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Tandem + Tandem	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			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 7.2
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	19 + 20	26 + 27	27 + 28
GWP Tonnes Equivalent CO ₂		tCO ₂	81	111	115
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1194	1225	1232
Maximum System Operating Pressure		Bar	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

			DCC031DR-08BLM0	DCC032DR-06BMM0	DCC033DR-08BMM0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	299.9	322.5	329.7
Nominal Input - Mechanical		kW	93.2	111.6	106.3
EER	(2)		3.22	2.89	3.10
ESEER	(3)		4.57	4.06	4.29
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	25-55-75-100	25-55-75-100	25-55-75-100
Minimum Turndown Ratio			0.24	0.27	0.27
Dimensions (H x W x L)		mm	2645 x 2200 x 4820	2645 x 2200 x 3690	2645 x 2200 x 4820
Mass					
Machine	(6)	kg	2900	2605	3010
Operating		kg	2980	2680	3095
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	30.6	30.6	30.6
Total Maximum Water flow		l/s	19.9	19.3	21.2
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	19.00	14.25	19.00
Nominal Airflow - EC Fans		m ³ /s	48.4	36.3	48.4
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			8	6	8
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Tandem + Tandem	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			4	4	4
Oil Charge Volume (Total)		l	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			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	33 + 35	27 + 28	33 + 35
GWP Tonnes Equivalent CO ₂		tCO ₂	142	115	142
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1249	1519	1544
Maximum System Operating Pressure		Bar	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

			DCC036DR-06BMS0	DCC038DR-10BMS0	DCC039DR-06BSS0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	352.0	368.7	375.3
Nominal Input - Mechanical		kW	123.2	113.4	134.2
EER	(2)		2.86	3.25	2.80
ESEER	(3)		4.18	4.60	4.34
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	25-45-65-85-100	25-45-65-85-100	20-40-55-70-85-100
Minimum Turndown Ratio			0.25	0.25	0.19
Dimensions (H x W x L)		mm	2645 x 2200 x 3690	2645 x 2200 x 5956	2645 x 2200 x 3690
Mass					
Machine	(6)	kg	2680	3520	2700
Operating		kg	2765	3630	2785
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	43.2	43.2	43.2
Total Maximum Water flow		l/s	21.6	24.6	23.6
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	14.25	23.75	14.25
Nominal Airflow - EC Fans		m ³ /s	36.3	60.5	36.3
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	10	6
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Tandem + Trio	Tandem + Trio	Trio + Trio
Quantity of Compressors			5	5	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
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	30 + 31	43 + 45	30 + 31
GWP Tonnes Equivalent CO ₂		tCO ₂	127	184	127
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1534	1578	1243
Maximum System Operating Pressure		Bar	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

			DCC042DR-10BSS0	DCC043DR-08BST0	DCC045DR-10BST0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	395.7	432.5	441.8
Nominal Input - Mechanical		kW	123.5	150.5	145.2
EER	(2)		3.20	2.87	3.04
ESEER	(3)		4.75	4.46	4.64
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	20-40-55-70-85-100	15-40-55-70-85-100	15-40-55-70-85-100
Minimum Turndown Ratio			0.19	0.17	0.17
Dimensions (H x W x L)		mm	2645 x 2200 x 5956	2645 x 2200 x 4820	2645 x 2200 x 5956
Mass					
Machine	(6)	kg	3540	3345	3780
Operating		kg	3650	3455	3905
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	43.2	57.6	57.6
Total Maximum Water flow		l/s	27.0	26.6	29.1
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	23.75	19.00	23.75
Nominal Airflow - EC Fans		m ³ /s	60.5	48.4	60.5
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			10	8	10
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Trio + Trio	Trio + Trio	Trio + Trio
Quantity of Compressors			6	6	6
Oil Charge Volume (Total)		l	3 x 6.7 + 3 x 6.7	3 x 6.7 + 3 x 7.2	3 x 6.7 + 3 x 7.2
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	43 + 45	39 + 42	46 + 50
GWP Tonnes Equivalent CO ₂		tCO ₂	184	169	200
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1273	1265	1277
Maximum System Operating Pressure		Bar	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

			DCC046DR-08BTT0	DCC048DR-10BTT0	DCC051DR-08BVV0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	472.2	483.8	523.7
Nominal Input - Mechanical		kW	172.6	166.7	200.4
EER	(2)		2.74	2.90	2.61
ESEER	(3)		4.20	4.37	4.19
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	20-40-55-70-85-100	20-40-55-70-85-100	20-40-55-75-85-100
Minimum Turndown Ratio			0.19	0.19	0.20
Dimensions (H x W x L)		mm	2645 x 2200 x 4820	2645 x 2200 x 5956	2645 x 2200 x 4820
Mass					
Machine	(6)	kg	3515	3955	3515
Operating		kg	3625	4080	3625
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	57.6	57.6	57.6
Total Maximum Water flow		l/s	28.1	30.9	30.1
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	19.00	23.75	19.00
Nominal Airflow - EC Fans		m ³ /s	48.4	60.5	48.4
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			8	10	8
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Trio + Trio	Trio + Trio	Trio + Trio
Quantity of Compressors			6	6	6
Oil Charge Volume (Total)		l	3 x 7.2 + 3 x 7.2	3 x 7.2 + 3 x 7.2	3 x 5.3 + 3 x 5.3
Oil Type			Polyol Ester Polyvinyl Ether		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	39 + 42	47 + 50	40 + 43
GWP Tonnes Equivalent CO ₂		tCO ₂	169	203	173
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1563	1581	1788
Maximum System Operating Pressure		Bar	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

			DCC011SX-04AK00	DCC014SX-04AL00	DCC017SX-04AM00
Number of Refrigeration Circuits			1	1	1
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	110.6	132.0	160.9
Nominal Input - Mechanical		kW	32.3	39.7	53.0
EER	(2)		3.42	3.32	3.03
ESEER	(3)		4.53	4.45	4.12
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	55-100	55-100	55-100
Minimum Turndown Ratio			0.54	0.55	0.56
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554
Mass					
Machine	(6)	kg	1575	1600	1725
Operating		kg	1600	1630	1755
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	8.6	11.0	13.2
Total Maximum Water flow		l/s	7.2	9.2	10.4
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	9.50	9.50	9.50
Nominal Airflow - EC Fans		m ³ /s	15.4	15.4	15.4
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Tandem	Tandem	Tandem
Quantity of Compressors			2	2	2
Oil Charge Volume (Total)		l	2 x 6.7	2 x 6.7	2 x 7.2
Refrigeration			Polyol Ester		
Refrigerant Precharged / GWP			R410A / 2088		
Charge (Total)		kg	26	27	27
GWP Tonnes Equivalent CO ₂		tCO ₂	54	56	56
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1028	1242	1547
Maximum System Operating Pressure		Bar	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

			DCC021SX-06BS00	DCC023SX-04BT00	DCC024SX-06BT00
Number of Refrigeration Circuits			1	1	1
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	197.8	219.8	239.8
Nominal Input - Mechanical		kW	59.7	88.7	80.8
EER	(2)		3.31	2.48	2.97
ESEER	(3)		4.80	4.15	4.46
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	40-70-100	40-75-100	40-75-100
Minimum Turndown Ratio			0.38	0.42	0.39
Dimensions (H x W x L)		mm	2645 x 2200 x 3690	2635 x 2200 x 2554	2645 x 2200 x 3690
Mass					
Machine	(6)	kg	2260	2010	2455
Operating		kg	2305	2055	2510
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	20.3	25.7	25.7
Total Maximum Water flow		l/s	13.5	14.2	15.5
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	14.25	9.50	14.25
Nominal Airflow - EC Fans		m ³ /s	23.1	15.4	23.1
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	4	6
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Trio	Trio	Trio
Quantity of Compressors			3	3	3
Oil Charge Volume (Total)		l	3 x 6.7	3 x 7.2	3 x 7.2
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	40	39	42
GWP Tonnes Equivalent CO ₂		tCO ₂	84	81	88
Refrigerant Control			Electronic Expansion Valve (EEV)		
Water Inlet / Outlet - Unit			DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System			Grooved Terminations		
Minimum System Water Volume	(7)	l	1281	1568	1599
Maximum System Operating Pressure		Bar	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

			DCC011DX-04ACC0	DCC013DX-04ACD0	DCC014DX-04ADD0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	111.6	123.1	132.7
Nominal Input - Mechanical		kW	32.2	35.9	39.5
EER	(2)		3.46	3.43	3.36
ESEER	(3)		4.28	4.37	4.14
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	50-100	45-100	50-100
Minimum Turndown Ratio			0.50	0.46	0.50
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554
Mass					
Machine	(6)	kg	1640	1655	1655
Operating		kg	1665	1680	1685
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	9.2	11.2	11.2
Total Maximum Water flow		l/s	7.3	8.5	9.1
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	9.50	9.50	9.50
Nominal Airflow - EC Fans		m ³ /s	15.4	15.4	15.4
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Single + Single	Single + Single	Single + Single
Quantity of Compressors			2	2	2
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 6.7
Refrigeration			Polyol Ester		
Refrigerant Precharged / GWP			R410A / 2088		
Charge (Total)		kg	15 + 15	15 + 16	15 + 16
GWP Tonnes Equivalent CO ₂		tCO ₂	63	65	65
Refrigerant Control			Electronic Expansion Valve (EEV)		
Water Inlet / Outlet - Unit			Grooved Terminations		
Water Drain / Bleed - Evap		inch	DN80 1/2	DN80 1/2	DN80 1/2
Water System					
Minimum System Water Volume	(7)	l	956	972	1137
Maximum System Operating Pressure		Bar	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

			DCC015DX-04ADF0	DCC016DX-04AJJ0	DCC018DX-04BJK0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	147.5	156.3	177.0
Nominal Input - Mechanical		kW	46.4	50.1	61.5
EER	(2)		3.18	3.12	2.88
ESEER	(3)		4.17	4.47	4.41
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	45-100	30-55-80-100	25-55-75-100
Minimum Turndown Ratio			0.46	0.28	0.25
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554
Mass					
Machine	(6)	kg	1725	1765	1870
Operating		kg	1755	1795	1905
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	13.2	13.2	18.0
Total Maximum Water flow		l/s	9.8	10.1	11.6
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	9.50	9.50	9.50
Nominal Airflow - EC Fans		m ³ /s	15.4	15.4	15.4
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Single + Single	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			2	4	4
Oil Charge Volume (Total)		l	1 x 6.7 + 1 x 7.2	2 x 3.6 + 2 x 3.6	2 x 3.6 + 2 x 6.7
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	16 + 16	16 + 16	17 + 18
GWP Tonnes Equivalent CO ₂		tCO ₂	67	67	73
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1151	750	752
Maximum System Operating Pressure		Bar	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

			DCC019DX-04AFK0	DCC020DX-06AFK0	DCC021DX-04AKK0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	182.3	194.7	200.6
Nominal Input - Mechanical		kW	63.4	58.9	73.4
EER	(2)		2.88	3.31	2.73
ESEER	(3)		3.86	4.29	4.15
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	45-75-100	45-75-100	30-60-80-100
Minimum Turndown Ratio			0.45	0.45	0.29
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2645 x 2200 x 3690	2635 x 2200 x 2554
Mass					
Machine	(6)	kg	1875	2375	1945
Operating		kg	1910	2420	1985
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	18.8	18.8	18.8
Total Maximum Water flow		l/s	11.6	12.6	13.0
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	9.50	14.25	9.50
Nominal Airflow - EC Fans		m ³ /s	15.4	23.1	15.4
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	6	4
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Single + Tandem	Single + Tandem	Tandem + Tandem
Quantity of Compressors			3	3	4
Oil Charge Volume (Total)		l	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			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	17 + 17	23 + 24	17 + 17
GWP Tonnes Equivalent CO ₂		tCO ₂	71	98	71
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1405	1485	997
Maximum System Operating Pressure		Bar	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

			DCC022DX-06AKK0	DCC024DX-06BKL0	DCC025DX-08BKL0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	216.0	235.4	245.0
Nominal Input - Mechanical		kW	67.2	75.4	72.1
EER	(2)		3.21	3.12	3.40
ESEER	(3)		4.51	4.56	4.79
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	30-55-80-100	25-55-75-100	25-55-75-100
Minimum Turndown Ratio			0.28	0.25	0.25
Dimensions (H x W x L)		mm	2645 x 2200 x 3690	2645 x 2200 x 3690	2645 x 2200 x 4820
Mass					
Machine	(6)	kg	2445	2510	2955
Operating		kg	2490	2575	3030
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	18.8	26.1	26.1
Total Maximum Water flow		l/s	14.1	15.3	16.3
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	14.25	14.25	19.00
Nominal Airflow - EC Fans		m ³ /s	23.1	23.1	30.7
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	6	8
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Tandem + Tandem	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			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
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	23 + 24	25 + 27	31 + 34
GWP Tonnes Equivalent CO ₂		tCO ₂	98	109	136
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1022	1028	1042
Maximum System Operating Pressure		Bar	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

			DCC027DX-06BLL0	DCC028DX-08BLL0	DCC030DX-06BLM0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	252.7	264.0	279.2
Nominal Input - Mechanical		kW	83.5	79.4	98.2
EER	(2)		3.03	3.32	2.84
ESEER	(3)		4.40	4.64	4.33
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	30-55-80-100	25-55-75-100	25-55-75-100
Minimum Turndown Ratio			0.28	0.27	0.26
Dimensions (H x W x L)		mm	2645 x 2200 x 3690	2645 x 2200 x 4820	2645 x 2200 x 3690
Mass					
Machine	(6)	kg	2520	2965	2655
Operating		kg	2585	3040	2725
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	26.1	26.1	30.6
Total Maximum Water flow		l/s	16.8	18.0	18.2
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	14.25	19.00	14.25
Nominal Airflow - EC Fans		m ³ /s	23.1	30.7	23.1
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	8	6
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Tandem + Tandem	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			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 7.2
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	26 + 27	32 + 34	27 + 28
GWP Tonnes Equivalent CO ₂		tCO ₂	111	138	115
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1224	1242	1232
Maximum System Operating Pressure		Bar	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

			DCC031DX-08BLM0	DCC032DX-06BMM0	DCC033DX-08BMM0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	293.7	303.2	320.7
Nominal Input - Mechanical		kW	92.8	112.8	106.0
EER	(2)		3.17	2.69	3.03
ESEER	(3)		4.57	4.03	4.28
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	25-55-75-100	30-60-80-100	30-55-80-100
Minimum Turndown Ratio			0.25	0.29	0.28
Dimensions (H x W x L)		mm	2645 x 2200 x 4820	2645 x 2200 x 3690	2645 x 2200 x 4820
Mass					
Machine	(6)	kg	3100	2770	3210
Operating		kg	3180	2840	3295
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	30.6	30.6	30.6
Total Maximum Water flow		l/s	19.5	19.3	20.7
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	19.00	14.25	19.00
Nominal Airflow - EC Fans		m ³ /s	30.7	23.1	30.7
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			8	6	8
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Tandem + Tandem	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			4	4	4
Oil Charge Volume (Total)		l	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			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	33 + 35	27 + 28	33 + 35
GWP Tonnes Equivalent CO ₂		tCO ₂	142	115	142
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1249	1513	1544
Maximum System Operating Pressure		Bar	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

			DCC036DX-08BMS0	DCC038DX-10BMS0	DCC039DX-08BSS0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	348.5	361.2	370.6
Nominal Input - Mechanical		kW	117.7	112.9	128.9
EER	(2)		2.96	3.20	2.87
ESEER	(3)		4.40	4.47	4.61
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	25-45-70-85-100	25-45-65-85-100	20-40-55-75-85-100
Minimum Turndown Ratio			0.26	0.25	0.20
Dimensions (H x W x L)		mm	2645 x 2200 x 4820	2645 x 2200 x 5956	2645 x 2200 x 4820
Mass					
Machine	(6)	kg	3285	3750	3305
Operating		kg	3380	3855	3400
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	43.2	43.2	43.2
Total Maximum Water flow		l/s	22.6	24.1	24.8
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	19.00	23.75	19.00
Nominal Airflow - EC Fans		m ³ /s	30.7	38.4	30.7
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			8	10	8
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Tandem + Trio	Tandem + Trio	Trio + Trio
Quantity of Compressors			5	5	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
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	36 + 38	37 + 51	36 + 38
GWP Tonnes Equivalent CO ₂		tCO ₂	155	184	155
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1560	1560	1261
Maximum System Operating Pressure		Bar	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

			DCC042DX-12BSS0	DCC043DX-08BST0	DCC045DX-12BST0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	396.0	405.6	438.4
Nominal Input - Mechanical		kW	119.5	153.2	140.5
EER	(2)		3.31	2.65	3.12
ESEER	(3)		4.88	4.49	4.78
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	20-40-55-70-85-100	20-40-55-75-85-100	15-40-55-70-85-100
Minimum Turndown Ratio			0.19	0.18	0.17
Dimensions (H x W x L)		mm	2645 x 2200 x 7090	2645 x 2200 x 4820	2645 x 2200 x 7090
Mass					
Machine	(6)	kg	4170	3545	4410
Operating		kg	4295	3655	4550
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	43.2	57.6	57.6
Total Maximum Water flow		l/s	27.0	26.6	29.1
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	28.50	19.00	28.50
Nominal Airflow - EC Fans		m ³ /s	46.1	30.7	46.1
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			12	8	12
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Trio + Trio	Trio + Trio	Trio + Trio
Quantity of Compressors			6	6	6
Oil Charge Volume (Total)		l	3 x 6.7 + 3 x 6.7	3 x 6.7 + 3 x 7.2	3 x 6.7 + 3 x 7.2
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	50 + 52	39 + 42	52 + 58
GWP Tonnes Equivalent CO ₂		tCO ₂	213	169	230
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1 1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1282	1265	1286
Maximum System Operating Pressure		Bar	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

			DCC046DX-10BTT0	DCC048DX-12BTT0	DCC051DX-10BVV0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Cooling Duty - EC fans	(1)	kW	460.9	476.8	507.8
Nominal Input - Mechanical		kW	167.4	161.3	198.1
EER	(2)		2.75	2.96	2.56
ESEER	(3)		4.40	4.52	4.39
Nominal Output - Free Cooling	(4)	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	(5)		N/A	N/A	N/A
Capacity Steps		%	20-40-55-75-85-100	20-40-55-75-85-100	20-40-60-75-85-100
Minimum Turndown Ratio			0.20	0.20	0.21
Dimensions (H x W x L)		mm	2645 x 2200 x 5956	2645 x 2200 x 7090	2645 x 2200 x 5956
Mass					
Machine	(6)	kg	4155	4590	4160
Operating		kg	4280	4725	4285
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	57.6	57.6	57.6
Total Maximum Water flow		l/s	27.5	30.8	30.3
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	23.75	28.50	23.75
Nominal Airflow - EC Fans		m ³ /s	38.4	46.1	38.4
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			10	12	10
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Trio + Trio	Trio + Trio	Trio + Trio
Quantity of Compressors			6	6	6
Oil Charge Volume (Total)		l	3 x 7.2 + 3 x 7.2	3 x 7.2 + 3 x 7.2	3 x 5.3 + 3 x 5.3
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	47 + 50	54 + 58	48 + 51
GWP Tonnes Equivalent CO ₂		tCO ₂	203	234	207
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	2 1/2	1/2	3 1/2
Water System					
Minimum System Water Volume	(7)	l	1581	1593	1810
Maximum System Operating Pressure		Bar	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

Electrical data DCC R Type

ELECTRICAL DATA			DCC011SR-04AK00	DCC014SR-04AL00	DCC017SR-04AM00
Unit Data					
Nominal Run Amps	(1)	A	79.16	91.42	113.82
Maximum Start Amps	(2)	A	262.38	313.51	384.71
Recommended Mains Fuse Size		A	100	125	160
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			4	4	4
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	31.8	37.9	49.1
Quantity			2	2	2
Motor Rating		kW	18.8	22.4	28.8
Sump Heater Rating		W	75	75	130
Start Amps	(2)	A	215	260	320
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	73	84	103
Maximum Start Amps		A	259	310	379
Compressor Nominal Run Amps		A	28.5	34.08	43.77
Recommended Mains Fuse Size		A	100	125	160
Electronic Soft-start					
Nominal Run Amps		A	79.16	91.42	113.82
Maximum Start Amps		A	176.38	209.51	256.71
Recommended Mains Fuse		A	100	125	160
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	73	84	103
Maximum Start Amps		A	173	206	251
Compressor Nominal Run Amps		A	28.5	34.08	43.77
Recommended Mains Fuse Size		A	100	125	160
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	5	5
Unit Nominal Run Amps		A	84.16	96.42	118.82
Recommended Mains Fuse Size		A	100	125	160
Motor Rating		kW	2.2	2.2	2.2
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	5	6.6
Unit Nominal Run Amps		A	84	96	120
Recommended Mains Fuse Size		A	100	125	160
Motor Rating		kW	2.2	2.2	3
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	4.45	4.45	4.45
Unit Nominal Run Amps		A	84	96	118
Recommended Mains Fuse Size		A	100	125	160
Motor Rating		kW	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
Unit Nominal Run Amps		A	85	98	120
Recommended Mains Fuse Size		A	100	125	160
Motor Rating		kW	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 R Type

ELECTRICAL DATA			DCC021SR-04BS00	DCC023SR-04BT00	DCC024SR-06BT00
Unit Data					
Nominal Run Amps	(1)	A	129.33	162.93	170.73
Maximum Start Amps	(2)	A	351.42	433.82	441.62
Recommended Mains Fuse Size		A	160	200	200
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating		W	500	500	500
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			4	4	6
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	37.9	49.1	49.1
Quantity			3	3	3
Motor Rating		kW	22.4	28.8	28.8
Sump Heater Rating		W	75	130	130
Start Amps	(2)	A	260	320	320
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	117.850	162.93	170.73
Maximum Start Amps		A	343.767	433.82	441.62
Compressor Nominal Run Amps		A	34.08	49.11	49.11
Recommended Mains Fuse Size		A	160	200	200
Electronic Soft-start					
Nominal Run Amps		A	129.33	162.93	170.73
Maximum Start Amps		A	247.42	305.82	313.62
Recommended Mains Fuse		A	160	200	200
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	117.850	162.93	170.73
Maximum Start Amps		A	239.767	305.82	313.62
Compressor Nominal Run Amps		A	34.08	49.11	49.11
Recommended Mains Fuse Size		A	160	200	200
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	6.2	6.2
Unit Nominal Run Amps		A	134.33	169.13	176.93
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	2.2	3	3
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.6	8.9	8.9
Unit Nominal Run Amps		A	135.93	171.83	179.63
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	3	4	4
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	4.45	6.3	8
Unit Nominal Run Amps		A	133.78	169.23	178.73
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	2.2	3	4
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.3	8	8
Unit Nominal Run Amps		A	135.63	170.93	178.73
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	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

ELECTRICAL DATA			DCC011DR-04ACC0	DCC013DR-04ACD0	DCC014DR-04ADD0
Unit Data					
Nominal Run Amps	(1)	A	79.16	85.29	91.42
Maximum Start Amps	(2)	A	262.38	307.38	313.51
Recommended Mains Fuse Size		A	100	125	125
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			4	4	4
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	31.8 / 31.8	37.9 / 31.8	37.9 / 37.9
Quantity			1 + 1	1 + 1	1 + 1
Motor Rating		kW	18.8 / 18.8	22.4 / 18.8	22.4 / 22.4
Sump Heater Rating		W	75	75	75
Start Amps	(2)	A	215 / 215	260 / 260	260 / 260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	72.609	78.188	83.767
Maximum Start Amps		A	259.104	304.104	309.683
Compressor Nominal Run Amps		A	28.5 / 28.5	34.1 / 28.5	34.1 / 34.1
Recommended Mains Fuse Size		A	100	125	125
Electronic Soft-start					
Nominal Run Amps		A	79.16	85.29	91.42
Maximum Start Amps		A	176.38	203.38	209.51
Recommended Mains Fuse		A	100	125	125
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	72.609	78.188	83.767
Maximum Start Amps		A	173.104	200.104	205.683
Compressor Nominal Run Amps		A	28.5 / 28.5	34.1 / 28.5	34.1 / 34.1
Recommended Mains Fuse Size		A	100	125	125
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	5	5
Unit Nominal Run Amps		A	84.16	90.29	96.42
Recommended Mains Fuse Size		A	100	125	125
Motor Rating		kW	2.2	2.2	2.2
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	5	5
Unit Nominal Run Amps		A	84.16	90.29	96.42
Recommended Mains Fuse Size		A	100	125	125
Motor Rating		kW	2.2	2.2	2.2
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	4.45	4.45	4.45
Unit Nominal Run Amps		A	83.61	89.74	95.87
Recommended Mains Fuse Size		A	100	125	125
Motor Rating		kW	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
Unit Nominal Run Amps		A	85.46	91.59	97.72
Recommended Mains Fuse Size		A	100	125	125
Motor Rating		kW	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 R Type

ELECTRICAL DATA			DCC015DR-04ADF0	DCC016DR-04AJJ0	DCC018DR-04BJK0
Unit Data					
Nominal Run Amps	(1)	A	102.62	113.88	128.3
Maximum Start Amps	(2)	A	373.51	286.31	311.52
Recommended Mains Fuse Size		A	125	160	160
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			4	4	4
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	49.1 / 37.9	24.6 / 24.6	31.8 / 24.6
Quantity			1 + 1	2 + 2	2 + 2
Motor Rating		kW	28.8 / 22.4	13.6 / 13.6	18.8 / 13.6
Sump Heater Rating		W	130 + 75	75	75
Start Amps	(2)	A	320 / 260	197 / 197	215 / 197
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	93.456	98.222	113.920
Maximum Start Amps		A	369.683	274.566	300.415
Compressor Nominal Run Amps		A	43.8 / 34.1	20.7 / 20.7	28.5 / 20.7
Recommended Mains Fuse Size		A	125	160	160
Electronic Soft-start					
Nominal Run Amps		A	102.62	113.88	128.3
Maximum Start Amps		A	245.51	207.51	225.52
Recommended Mains Fuse		A	125	160	160
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	93.456	98.222	113.920
Maximum Start Amps		A	241.683	195.766	214.415
Compressor Nominal Run Amps		A	43.8 / 34.1	20.7 / 20.7	28.5 / 20.7
Recommended Mains Fuse Size		A	125	160	160
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	5	5
Unit Nominal Run Amps		A	107.62	118.88	133.3
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	2.2	2.2	2.2
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	6.6	6.6
Unit Nominal Run Amps		A	107.62	120.48	134.9
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	2.2	3	3
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	4.45	4.45	4.45
Unit Nominal Run Amps		A	107.07	118.33	132.75
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	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
Unit Nominal Run Amps		A	108.92	120.18	134.6
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	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 R Type

ELECTRICAL DATA			DCC019DR-04AFK0	DCC020DR-06AFK0	DCC021DR-04AKK0
Unit Data					
Nominal Run Amps	(1)	A	128.27	136.07	142.72
Maximum Start Amps	(2)	A	339.16	406.96	325.94
Recommended Mains Fuse Size		A	160	160	160
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			4	6	4
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	31.8 / 49.1	31.8 / 49.1	31.8 / 31.8
Quantity			2 + 1	2 + 1	2 + 2
Motor Rating		kW	18.8 / 28.8	18.8 / 28.8	18.8 / 18.8
Sump Heater Rating		W	130 + 75	130 + 75	75
Start Amps	(2)	A	215 / 260	215 / 320	215 / 215
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	116.381	124.181	129.618
Maximum Start Amps		A	392.609	400.409	316.113
Compressor Nominal Run Amps		A	28.5 / 43.8	28.5 / 43.8	28.5 / 28.5
Recommended Mains Fuse Size		A	160	160	160
Electronic Soft-start					
Nominal Run Amps		A	128.27	136.07	142.72
Maximum Start Amps		A	235.16	278.96	239.94
Recommended Mains Fuse		A	160	160	160
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	116.381	124.181	129.618
Maximum Start Amps		A	264.609	272.409	230.113
Compressor Nominal Run Amps		A	28.5 / 43.8	28.5 / 43.8	28.5 / 28.5
Recommended Mains Fuse Size		A	160	160	160
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	5	6.2
Unit Nominal Run Amps		A	133.27	141.07	148.92
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	2.2	2.2	3
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.6	6.6	8.9
Unit Nominal Run Amps		A	134.87	142.67	151.62
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	3	3	4
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	4.45	4.45	6.3
Unit Nominal Run Amps		A	132.72	140.52	149.02
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	2.2	2.2	3
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.3	6.3	8
Unit Nominal Run Amps		A	134.57	142.37	150.72
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	3	3	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

ELECTRICAL DATA			DCC022DR-06AKK0	DCC024DR-04BKL0	DCC025DR-06BKL0
Unit Data					
Nominal Run Amps	(1)	A	150.52	154.08	161.88
Maximum Start Amps	(2)	A	333.74	338.13	345.93
Recommended Mains Fuse Size		A	200	200	200
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating		W	500	500	500
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			6	4	6
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	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
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	18.8 / 18.8	18.5 / 24.0	18.5 / 24.0
Sump Heater Rating		W	75	75	75
Start Amps	(2)	A	215 / 215	215 / 260	215 / 260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	137.418	140.776	148.576
Maximum Start Amps		A	323.913	327.271	335.071
Compressor Nominal Run Amps		A	28.5 / 28.5	28.5 / 34.1	28.5 / 34.1
Recommended Mains Fuse Size		A	200	200	200
Electronic Soft-start					
Nominal Run Amps		A	150.52	154.08	161.88
Maximum Start Amps		A	247.74	252.13	259.93
Recommended Mains Fuse		A	200	200	200
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	137.418	140.776	148.576
Maximum Start Amps		A	237.913	241.271	249.071
Compressor Nominal Run Amps		A	28.5 / 28.5	28.5 / 34.1	28.5 / 34.1
Recommended Mains Fuse Size		A	200	200	200
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.2	6.2	6.2
Unit Nominal Run Amps		A	156.72	160.28	168.08
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	3	3	3
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.9	8.9	8.9
Unit Nominal Run Amps		A	159.42	162.98	170.78
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	4	4	4
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.3	8	8
Unit Nominal Run Amps		A	156.82	162.08	169.88
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	3	4	4
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8	11.2	11.2
Unit Nominal Run Amps		A	158.52	165.28	173.08
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	4	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

ELECTRICAL DATA			DCC027DR-04BLL0	DCC028DR-06BLL0	DCC030DR-06BLM0
Unit Data					
Nominal Run Amps	(1)	A	168	175.8	198.2
Maximum Start Amps	(2)	A	390.47	398.27	469.09
Recommended Mains Fuse Size		A	200	250	250
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			4	6	6
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	37.9 / 38.3	37.9 / 38.3	49.1 / 38.3
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	22.4 / 24.0	22.4 / 24.0	28.8 / 24.0
Sump Heater Rating		W	75	75	130 + 75
Start Amps	(2)	A	260 / 260	260 / 260	320 / 260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	151.934	159.734	179.111
Maximum Start Amps		A	377.850	385.650	455.339
Compressor Nominal Run Amps		A	34.1 / 34.1	34.1 / 34.1	43.8 / 34.1
Recommended Mains Fuse Size		A	200	250	250
Electronic Soft-start					
Nominal Run Amps		A	168	175.8	198.2
Maximum Start Amps		A	286.47	294.27	341.09
Recommended Mains Fuse		A	200	250	250
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	151.934	159.734	179.111
Maximum Start Amps		A	273.850	281.650	327.339
Compressor Nominal Run Amps		A	34.1 / 34.1	34.1 / 34.1	43.8 / 34.1
Recommended Mains Fuse Size		A	200	250	250
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.2	6.2	6.2
Unit Nominal Run Amps		A	174.2	182	204.4
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	3	3	3
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.9	8.9	8.9
Unit Nominal Run Amps		A	176.9	184.7	207.1
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	4	4	4
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8	8	11.2
Unit Nominal Run Amps		A	176	183.8	209.4
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	4	4	5.5
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	11.2	11.2	11.2
Unit Nominal Run Amps		A	179.2	187	209.4
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	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

ELECTRICAL DATA			DCC031DR-08BLM0	DCC032DR-06BMM0	DCC033DR-08BMM0
Unit Data					
Nominal Run Amps	(1)	A	206	219.84	227.64
Maximum Start Amps	(2)	A	476.89	490.73	498.53
Recommended Mains Fuse Size		A	250	250	250
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			8	6	8
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	49.1 / 38.3	49.1 / 49.1	49.1 / 49.1
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	28.8 / 24.0	28.8 / 28.8	28.8 / 28.8
Sump Heater Rating		W	130 + 75	130	130
Start Amps	(2)	A	320 / 260	320 / 260	320 / 320
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	186.911	198.489	206.289
Maximum Start Amps		A	463.139	414.717	482.517
Compressor Nominal Run Amps		A	43.8 / 34.1	43.8 / 43.8	43.8 / 43.8
Recommended Mains Fuse Size		A	250	250	250
Electronic Soft-start					
Nominal Run Amps		A	206	219.84	227.64
Maximum Start Amps		A	348.89	362.73	370.53
Recommended Mains Fuse		A	250	250	250
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	186.911	198.489	206.289
Maximum Start Amps		A	335.139	310.717	354.517
Compressor Nominal Run Amps		A	43.8 / 34.1	43.8 / 43.8	43.8 / 43.8
Recommended Mains Fuse Size		A	250	250	250
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.2	8.9	8.9
Unit Nominal Run Amps		A	212.2	228.74	236.54
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	3	4	4
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.9	12	12
Unit Nominal Run Amps		A	214.9	231.84	239.64
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	4	5.5	5.5
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	11.2	11.2	11.2
Unit Nominal Run Amps		A	217.2	231.04	238.84
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	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
Unit Nominal Run Amps		A	217.2	231.04	238.84
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	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

ELECTRICAL DATA			DCC036DR-06BMS0	DCC038DR-10BMS0	DCC039DR-06BSS0
Unit Data					
Nominal Run Amps	(1)	A	235.35	250.95	250.86
Maximum Start Amps	(2)	A	506.24	521.84	472.95
Recommended Mains Fuse Size		A	315	315	315
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			6	10	6
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	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
Quantity			3 + 2	3 + 2	3 + 3
Motor Rating		kW	22.4 / 28.8	22.4 / 28.8	22.4 / 22.4
Sump Heater Rating		W	130 + 75	130 + 75	75
Start Amps	(2)	A	260 / 320	260 / 320	260 / 260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	213.195	228.795	227.901
Maximum Start Amps		A	489.423	505.023	453.817
Compressor Nominal Run Amps		A	34.1 / 43.8	34.1 / 43.8	34.1 / 34.1
Recommended Mains Fuse Size		A	315	315	315
Electronic Soft-start					
Nominal Run Amps		A	235.35	250.95	250.86
Maximum Start Amps		A	378.24	393.84	368.95
Recommended Mains Fuse		A	315	315	315
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	213.195	228.795	227.901
Maximum Start Amps		A	361.423	377.023	349.817
Compressor Nominal Run Amps		A	34.1 / 43.8	34.1 / 43.8	34.1 / 34.1
Recommended Mains Fuse Size		A	315	315	315
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	12	12	12
Unit Nominal Run Amps		A	247.35	262.95	262.86
Recommended Mains Fuse Size		A	315	315	315
Motor Rating		kW	5.5	5.5	5.5
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	14	14	14
Unit Nominal Run Amps		A	249.35	264.95	264.86
Recommended Mains Fuse Size		A	315	315	315
Motor Rating		kW	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
Unit Nominal Run Amps		A	246.55	262.15	262.06
Recommended Mains Fuse Size		A	315	315	315
Motor Rating		kW	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
Unit Nominal Run Amps		A	246.55	262.15	262.06
Recommended Mains Fuse Size		A	315	315	315
Motor Rating		kW	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

ELECTRICAL DATA			DCC042DR-10BSS0	DCC043DR-08BST0	DCC045DR-10BST0
Unit Data					
Nominal Run Amps	(1)	A	267.6	292.26	301.2
Maximum Start Amps	(2)	A	490.45	563.15	572.09
Recommended Mains Fuse Size		A	315	355	355
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			10	8	10
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	37.9 / 38.3	49.1 / 37.9	49.1 / 38.3
Quantity			3 + 3	3 + 3	3 + 3
Motor Rating		kW	22.4 / 24.0	28.8 / 22.4	28.8 / 24.0
Sump Heater Rating		W	75	130 + 75	130 + 75
Start Amps	(2)	A	260 / 260	320 / 260	320 / 260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	243.501	264.767	272.567
Maximum Start Amps		A	469.417	540.995	548.795
Compressor Nominal Run Amps		A	34.1 / 34.1	43.8 / 34.1	43.8 / 34.1
Recommended Mains Fuse Size		A	315	355	355
Electronic Soft-start					
Nominal Run Amps		A	267.6	292.26	301.2
Maximum Start Amps		A	386.45	386.04	394.98
Recommended Mains Fuse		A	315	355	355
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	243.501	264.767	272.567
Maximum Start Amps		A	365.417	369.223	377.023
Compressor Nominal Run Amps		A	34.1 / 34.1	43.8 / 34.1	43.8 / 34.1
Recommended Mains Fuse Size		A	315	355	355
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	12	12	12
Unit Nominal Run Amps		A	279.6	304.26	313.2
Recommended Mains Fuse Size		A	355	355	355
Motor Rating		kW	5.5	5.5	5.5
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	14	14	14
Unit Nominal Run Amps		A	281.6	306.26	315.2
Recommended Mains Fuse Size		A	355	355	355
Motor Rating		kW	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
Unit Nominal Run Amps		A	278.8	303.46	312.4
Recommended Mains Fuse Size		A	355	355	355
Motor Rating		kW	5.5	5.5	5.5
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	11.2	14.8	14.8
Unit Nominal Run Amps		A	278.8	307.06	316
Recommended Mains Fuse Size		A	355	355	355
Motor Rating		kW	5.5	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

ELECTRICAL DATA			DCC046DR-08BTT0	DCC048DR-10BTT0	DCC051DR-08BVV0
Unit Data					
Nominal Run Amps	(1)	A	325.86	333.66	362.4
Maximum Start Amps	(2)	A	596.75	604.55	633.2
Recommended Mains Fuse Size		A	355	355	400
Mains Supply		VAC	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	401 V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm ²	Direct to Bus Bar	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	17
Permanent Supply		VAC	230 V 1 PH 50 Hz	230 V 1 PH 50 Hz	231 V 1 PH 50 Hz
Max Permanent Incoming Cable Size		mm ²	4 mm ² terminals	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			8	10	8
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	49.1 / 49.1	49.1 / 49.1	55.2 / 55.2
Quantity			3 + 3	3 + 3	3 + 3
Motor Rating		kW	28.8 / 28.8	28.8 / 28.8	33.1 / 33.1
Sump Heater Rating		W	130	130	140
Start Amps	(2)	A	320 / 320	320 / 320	326 / 326
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	293.834	301.634	332.941
Maximum Start Amps		A	570.061	577.861	608.651
Compressor Nominal Run Amps		A	43.8 / 43.8	43.8 / 43.8	50.3 / 50.3
Recommended Mains Fuse Size		A	355	355	400
Electronic Soft-start					
Nominal Run Amps		A	325.86	333.66	362.4
Maximum Start Amps		A	468.75	476.55	502.8
Recommended Mains Fuse		A	355	355	400
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	293.834	301.634	332.941
Maximum Start Amps		A	442.061	449.861	478.251
Compressor Nominal Run Amps		A	43.8 / 43.8	43.8 / 43.8	50.3 / 50.3
Recommended Mains Fuse Size		A	355	355	400
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	12	12	12
Unit Nominal Run Amps		A	337.86	345.66	374.4
Recommended Mains Fuse Size		A	355	355	400
Motor Rating		kW	5.5	5.5	5.5
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	14	14	14
Unit Nominal Run Amps		A	339.86	347.66	376.4
Recommended Mains Fuse Size		A	355	355	400
Motor Rating		kW	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
Unit Nominal Run Amps		A	337.06	344.86	373.6
Recommended Mains Fuse Size		A	355	355	400
Motor Rating		kW	5.5	5.5	5.5
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	14.8	14.8	14.8
Unit Nominal Run Amps		A	340.66	348.46	377.2
Recommended Mains Fuse Size		A	355	355	400
Motor Rating		kW	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

ELECTRICAL DATA			DCC011SX-04AK00	DCC014SX-04AL00	DCC017SX-04AM00
Unit Data					
Nominal Run Amps	(1)	A	79.16	91.42	113.82
Maximum Start Amps	(2)	A	262.38	313.51	384.71
Recommended Mains Fuse Size		A	100	125	160
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			4	4	4
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	31.8	37.9	49.1
Quantity			2	2	2
Motor Rating		kW	18.8	22.4	28.8
Sump Heater Rating		W	75	75	130
Start Amps	(2)	A	215	260	320
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	72.609	83.767	103.145
Maximum Start Amps		A	259.104	309.683	379.372
Compressor Nominal Run Amps		A	28.5	34.08	43.77
Recommended Mains Fuse Size		A	100	125	160
Electronic Soft-start					
Nominal Run Amps		A	79.16	91.42	113.82
Maximum Start Amps		A	176.38	209.51	256.71
Recommended Mains Fuse		A	100	125	160
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	72.609	83.767	103.145
Maximum Start Amps		A	173.104	205.683	251.372
Compressor Nominal Run Amps		A	28.5	34.08	43.77
Recommended Mains Fuse Size		A	100	125	160
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	5	5
Unit Nominal Run Amps		A	84.16	96.42	118.82
Recommended Mains Fuse Size		A	100	125	160
Motor Rating		kW	2.2	2.2	2.2
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	5	6.6
Unit Nominal Run Amps		A	84.16	96.42	120.42
Recommended Mains Fuse Size		A	100	125	160
Motor Rating		kW	2.2	2.2	3
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	4.45	4.45	4.45
Unit Nominal Run Amps		A	83.61	95.87	118.27
Recommended Mains Fuse Size		A	100	125	160
Motor Rating		kW	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
Unit Nominal Run Amps		A	85.46	97.72	120.12
Recommended Mains Fuse Size		A	100	125	160
Motor Rating		kW	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

ELECTRICAL DATA			DCC021SX-06BS00	DCC023SX-04BT00	DCC024SX-06BT00
Unit Data					
Nominal Run Amps	(1)	A	137.13	162.93	170.73
Maximum Start Amps	(2)	A	359.22	433.82	441.62
Recommended Mains Fuse Size		A	160	200	200
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			6	4	6
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	37.9	49.1	49.1
Quantity			3	3	3
Motor Rating		kW	22.4	28.8	28.8
Sump Heater Rating		W	75	130	130
Start Amps	(2)	A	260	320	320
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	125.650	162.93	170.73
Maximum Start Amps		A	351.567	433.82	441.62
Compressor Nominal Run Amps		A	34.08	49.11	49.11
Recommended Mains Fuse Size		A	160	200	200
Electronic Soft-start					
Nominal Run Amps		A	137.13	162.93	170.73
Maximum Start Amps		A	255.22	265.22	273.02
Recommended Mains Fuse		A	160	200	200
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	125.650	162.93	170.73
Maximum Start Amps		A	247.567	305.82	313.62
Compressor Nominal Run Amps		A	34.08	49.11	49.11
Recommended Mains Fuse Size		A	160	200	200
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	6.2	6.2
Unit Nominal Run Amps		A	142.13	169.13	176.93
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	2.2	3	3
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.6	8.9	8.9
Unit Nominal Run Amps		A	143.73	171.83	179.63
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	3	4	4
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	4.45	6.3	6.3
Unit Nominal Run Amps		A	141.58	169.23	177.03
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	2.2	3	3
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.3	8	8
Unit Nominal Run Amps		A	143.43	170.93	178.73
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	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 X Type

ELECTRICAL DATA			DCC011DX-04ACC0	DCC013DX-04ACD0	DCC014DX-04ADD0
Unit Data					
Nominal Run Amps	(1)	A	79.16	85.29	91.42
Maximum Start Amps	(2)	A	262.38	307.38	313.51
Recommended Mains Fuse Size		A	100	125	125
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating		W	500	500	500
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			4	4	4
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	31.8 / 31.8	37.9 / 31.8	37.9 / 37.9
Quantity			1 + 1	1 + 1	1 + 1
Motor Rating		kW	18.8 / 18.8	22.4 / 18.8	22.4 / 22.4
Sump Heater Rating		W	75	75	75
Start Amps	(2)	A	215 / 215	260 / 260	260 / 260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	72.609	78.188	83.767
Maximum Start Amps		A	259.104	304.104	309.683
Compressor Nominal Run Amps		A	28.5 / 28.5	34.1 / 28.5	34.1 / 34.1
Recommended Mains Fuse Size		A	100	125	125
Electronic Soft-start					
Nominal Run Amps		A	79.16	85.29	91.42
Maximum Start Amps		A	176.38	203.38	209.51
Recommended Mains Fuse		A	100	125	125
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	72.609	78.188	83.767
Maximum Start Amps		A	173.104	200.104	205.683
Compressor Nominal Run Amps		A	28.5 / 28.5	34.1 / 28.5	34.1 / 34.1
Recommended Mains Fuse Size		A	100	125	125
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	5	5
Unit Nominal Run Amps		A	84.16	90.29	96.42
Recommended Mains Fuse Size		A	100	125	125
Motor Rating		kW	2.2	2.2	2.2
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	5	5
Unit Nominal Run Amps		A	84.16	90.29	96.42
Recommended Mains Fuse Size		A	100	125	125
Motor Rating		kW	2.2	2.2	2.2
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	4.45	4.45	4.45
Unit Nominal Run Amps		A	83.61	89.74	95.87
Recommended Mains Fuse Size		A	100	125	125
Motor Rating		kW	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
Unit Nominal Run Amps		A	85.46	91.59	97.72
Recommended Mains Fuse Size		A	100	125	125
Motor Rating		kW	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

ELECTRICAL DATA			DCC015DX-04ADF0	DCC016DX-04AJJ0	DCC018DX-04BJK0
Unit Data					
Nominal Run Amps	(1)	A	102.62	113.88	136.1
Maximum Start Amps	(2)	A	373.51	286.31	319.32
Recommended Mains Fuse Size		A	125	160	160
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			4	4	6
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	49.1 / 37.9	24.6 / 24.6	31.8 / 24.6
Quantity			1 + 1	2 + 2	2 + 2
Motor Rating		kW	28.8 / 22.4	13.6 / 13.6	18.8 / 13.6
Sump Heater Rating		W	130 + 75	75	75
Start Amps	(2)	A	320 / 260	197 / 197	215 / 197
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	93.456	98.222	121.720
Maximum Start Amps		A	369.683	274.566	308.215
Compressor Nominal Run Amps		A	43.8 / 34.1	20.7 / 20.7	28.5 / 20.7
Recommended Mains Fuse Size		A	125	160	160
Electronic Soft-start					
Nominal Run Amps		A	102.62	113.88	136.1
Maximum Start Amps		A	245.51	207.51	233.32
Recommended Mains Fuse		A	125	160	160
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	93.456	98.222	121.720
Maximum Start Amps		A	241.683	195.766	222.215
Compressor Nominal Run Amps		A	43.8 / 34.1	20.7 / 20.7	28.5 / 20.7
Recommended Mains Fuse Size		A	125	160	160
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	5	5
Unit Nominal Run Amps		A	107.62	118.88	141.1
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	2.2	2.2	2.2
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	6.6	6.6
Unit Nominal Run Amps		A	107.62	120.48	142.7
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	2.2	3	3
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	4.45	4.45	4.45
Unit Nominal Run Amps		A	107.07	118.33	140.55
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	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
Unit Nominal Run Amps		A	108.92	120.18	142.4
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	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

ELECTRICAL DATA			DCC019DX-04AFK0	DCC020DX-06AFK0	DCC021DX-04AKK0
Unit Data					
Nominal Run Amps	(1)	A	128.27	136.07	142.72
Maximum Start Amps	(2)	A	339.16	406.96	325.94
Recommended Mains Fuse Size		A	160	160	160
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating		W	500	500	500
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			4	6	4
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	31.8 / 49.1	31.8 / 49.1	31.8 / 31.8
Quantity			2 + 1	2 + 1	2 + 2
Motor Rating		kW	18.8 / 28.8	18.8 / 28.8	18.8 / 18.8
Sump Heater Rating		W	131 + 75	130 + 75	75
Start Amps	(2)	A	215 / 260	215 / 320	215 / 215
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	116.381	124.181	129.618
Maximum Start Amps		A	392.609	400.409	316.113
Compressor Nominal Run Amps		A	28.5 / 43.8	28.5 / 43.8	28.5 / 28.5
Recommended Mains Fuse Size		A	160	160	160
Electronic Soft-start					
Nominal Run Amps		A	128.27	136.07	142.72
Maximum Start Amps		A	235.16	278.96	239.94
Recommended Mains Fuse		A	160	160	160
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	116.381	124.181	129.618
Maximum Start Amps		A	264.609	272.409	230.113
Compressor Nominal Run Amps		A	28.5 / 43.8	28.5 / 43.8	28.5 / 28.5
Recommended Mains Fuse Size		A	160	160	160
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	5	5	5
Unit Nominal Run Amps		A	133.27	141.07	147.72
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	2.2	2.2	2.2
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.6	6.6	6.6
Unit Nominal Run Amps		A	134.87	142.67	149.32
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	3	3	3
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	4.45	4.45	4.45
Unit Nominal Run Amps		A	132.72	140.52	147.17
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	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
Unit Nominal Run Amps		A	134.57	142.37	149.02
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	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

ELECTRICAL DATA			DCC022DX-06AKK0	DCC024DX-06BKL0	DCC025DX-08BKL0
Unit Data					
Nominal Run Amps	(1)	A	150.52	161.88	169.68
Maximum Start Amps	(2)	A	333.74	345.93	353.73
Recommended Mains Fuse Size		A	160	200	200
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			6	6	8
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	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
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	18.8 / 18.8	18.5 / 24.0	18.5 / 24.0
Sump Heater Rating		W	75	75	75
Start Amps	(2)	A	215 / 215	215 / 260	215 / 260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	137.418	148.576	156.376
Maximum Start Amps		A	323.913	335.071	342.871
Compressor Nominal Run Amps		A	28.5 / 28.5	28.5 / 34.1	28.5 / 34.1
Recommended Mains Fuse Size		A	160	200	200
Electronic Soft-start					
Nominal Run Amps		A	150.52	161.88	169.68
Maximum Start Amps		A	247.74	259.93	267.73
Recommended Mains Fuse		A	160	200	200
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	137.418	148.576	156.376
Maximum Start Amps		A	237.913	249.071	256.871
Compressor Nominal Run Amps		A	28.5 / 28.5	28.5 / 34.1	28.5 / 34.1
Recommended Mains Fuse Size		A	160	200	200
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.2	6.2	6.2
Unit Nominal Run Amps		A	156.72	168.08	175.88
Recommended Mains Fuse Size		A	200	200	250
Motor Rating		kW	3	3	3
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.9	8.9	8.9
Unit Nominal Run Amps		A	159.42	170.78	178.58
Recommended Mains Fuse Size		A	200	200	250
Motor Rating		kW	4	4	4
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.3	8	8
Unit Nominal Run Amps		A	156.82	169.88	177.68
Recommended Mains Fuse Size		A	200	200	250
Motor Rating		kW	3	4	4
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8	11.2	11.2
Unit Nominal Run Amps		A	158.52	173.08	180.88
Recommended Mains Fuse Size		A	200	200	250
Motor Rating		kW	4	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

ELECTRICAL DATA			DCC027DX-06BLL0	DCC028DX-08BLL0	DCC030DX-06BLM0
Unit Data					
Nominal Run Amps	(1)	A	175.8	183.6	198.2
Maximum Start Amps	(2)	A	398.27	406.07	469.09
Recommended Mains Fuse Size		A	200	250	250
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating		W	500	500	500
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			6	8	6
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	37.9 / 38.3	37.9 / 38.3	49.1 / 38.3
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	22.4 / 24.0	22.4 / 24.0	28.8 / 24.0
Sump Heater Rating		W	75	75	130 + 75
Start Amps	(2)	A	260 / 260	260 / 260	320 / 260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	159.734	167.534	179.111
Maximum Start Amps		A	385.650	393.450	455.339
Compressor Nominal Run Amps		A	34.1 / 34.1	34.1 / 34.1	43.8 / 34.1
Recommended Mains Fuse Size		A	200	250	250
Electronic Soft-start					
Nominal Run Amps		A	175.8	183.6	198.2
Maximum Start Amps		A	294.27	302.07	341.09
Recommended Mains Fuse		A	200	250	250
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	159.734	167.534	179.111
Maximum Start Amps		A	281.650	289.450	327.339
Compressor Nominal Run Amps		A	34.1 / 34.1	34.1 / 34.1	43.8 / 34.1
Recommended Mains Fuse Size		A	200	250	250
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.2	6.2	6.2
Unit Nominal Run Amps		A	182	189.8	204.4
Recommended Mains Fuse Size		A	200	250	250
Motor Rating		kW	3	3	3
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.9	8.9	8.9
Unit Nominal Run Amps		A	184.7	192.5	207.1
Recommended Mains Fuse Size		A	200	250	250
Motor Rating		kW	4	4	4
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8	8	11.2
Unit Nominal Run Amps		A	183.8	191.6	209.4
Recommended Mains Fuse Size		A	200	250	250
Motor Rating		kW	4	4	5.5
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	11.2	11.2	11.2
Unit Nominal Run Amps		A	187	194.8	209.4
Recommended Mains Fuse Size		A	200	250	250
Motor Rating		kW	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

ELECTRICAL DATA			DCC031DX-08BLM0	DCC032DX-06BMM0	DCC033DX-08BMM0
Unit Data					
Nominal Run Amps	(1)	A	198.2	219.84	227.64
Maximum Start Amps	(2)	A	469.09	490.73	498.53
Recommended Mains Fuse Size		A	250	250	250
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			6	6	8
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	49.1 / 38.3	49.1 / 49.1	49.1 / 49.1
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	28.8 / 24.0	28.8 / 28.8	28.8 / 28.8
Sump Heater Rating		W	130 + 75	130	130
Start Amps	(2)	A	320 / 260	320 / 260	320 / 320
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	179.111	198.489	206.289
Maximum Start Amps		A	455.339	474.717	482.517
Compressor Nominal Run Amps		A	43.8 / 34.1	43.8 / 43.8	43.8 / 43.8
Recommended Mains Fuse Size		A	250	250	250
Electronic Soft-start					
Nominal Run Amps		A	198.2	219.84	227.64
Maximum Start Amps		A	341.09	362.73	370.53
Recommended Mains Fuse		A	250	250	250
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	179.111	198.489	206.289
Maximum Start Amps		A	327.339	346.717	354.517
Compressor Nominal Run Amps		A	43.8 / 34.1	43.8 / 43.8	43.8 / 43.8
Recommended Mains Fuse Size		A	250	250	250
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.2	6.2	6.2
Unit Nominal Run Amps		A	204.4	226.04	233.84
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	3	3	3
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.9	8.9	8.9
Unit Nominal Run Amps		A	207.1	228.74	236.54
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	4	4	4
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	11.2	11.2	11.2
Unit Nominal Run Amps		A	209.4	231.04	238.84
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	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
Unit Nominal Run Amps		A	209.4	231.04	238.84
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	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

ELECTRICAL DATA			DCC036DX-08BMS0	DCC038DX-10BMS0	DCC039DX-08BSS0
Unit Data					
Nominal Run Amps	(1)	A	243.15	250.95	258.66
Maximum Start Amps	(2)	A	514.04	521.84	480.75
Recommended Mains Fuse Size		A	315	315	315
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			8	10	8
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	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
Quantity			3 + 2	3 + 2	3 + 3
Motor Rating		kW	22.4 / 28.8	22.4 / 28.8	22.4 / 22.4
Sump Heater Rating		W	130 + 75	130 + 75	75
Start Amps	(2)	A	260 / 320	260 / 320	260 / 260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	220.995	228.795	235.701
Maximum Start Amps		A	497.223	505.023	461.617
Compressor Nominal Run Amps		A	34.1 / 43.8	34.1 / 43.8	34.1 / 34.1
Recommended Mains Fuse Size		A	315	315	315
Electronic Soft-start					
Nominal Run Amps		A	243.15	250.95	258.66
Maximum Start Amps		A	386.04	393.84	376.75
Recommended Mains Fuse		A	315	315	315
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	220.995	228.795	235.701
Maximum Start Amps		A	369.223	377.023	357.617
Compressor Nominal Run Amps		A	34.1 / 43.8	34.1 / 43.8	34.1 / 34.1
Recommended Mains Fuse Size		A	315	315	315
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.9	8.9	12
Unit Nominal Run Amps		A	252.05	259.85	270.66
Recommended Mains Fuse Size		A	315	315	315
Motor Rating		kW	4	4	5.5
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	12	12	14
Unit Nominal Run Amps		A	255.15	262.95	272.66
Recommended Mains Fuse Size		A	315	315	315
Motor Rating		kW	5.5	5.5	7.5
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	11.2	11.2	11.2
Unit Nominal Run Amps		A	254.35	262.15	269.86
Recommended Mains Fuse Size		A	315	315	315
Motor Rating		kW	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
Unit Nominal Run Amps		A	254.35	262.15	269.86
Recommended Mains Fuse Size		A	315	315	315
Motor Rating		kW	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

ELECTRICAL DATA			DCC042DX-12BSS0	DCC043DX-08BST0	DCC045DX-12BST0
Unit Data					
Nominal Run Amps	(1)	A	275.4	292.26	309
Maximum Start Amps	(2)	A	498.25	563.15	579.89
Recommended Mains Fuse Size		A	315	315	355
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			12	8	12
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	37.9 / 38.3	49.1 / 37.9	49.1 / 38.3
Quantity			3 + 3	3 + 3	3 + 3
Motor Rating		kW	22.4 / 24.0	28.8 / 22.4	28.8 / 24.0
Sump Heater Rating		W	75	130 + 75	130 + 75
Start Amps	(2)	A	260 / 260	320 / 260	320 / 260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	251.301	264.767	280.367
Maximum Start Amps		A	477.217	540.995	556.595
Compressor Nominal Run Amps		A	34.1 / 34.1	43.8 / 34.1	43.8 / 34.1
Recommended Mains Fuse Size		A	315	315	355
Electronic Soft-start					
Nominal Run Amps		A	275.4	292.26	309
Maximum Start Amps		A	394.25	386.04	402.78
Recommended Mains Fuse		A	315	315	355
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	251.301	264.767	280.367
Maximum Start Amps		A	373.217	369.223	384.823
Compressor Nominal Run Amps		A	34.1 / 34.1	43.8 / 34.1	43.8 / 34.1
Recommended Mains Fuse Size		A	315	315	355
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	12	12	12
Unit Nominal Run Amps		A	287.4	304.26	321
Recommended Mains Fuse Size		A	315	355	355
Motor Rating		kW	5.5	5.5	5.5
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	14	14	14
Unit Nominal Run Amps		A	289.4	306.26	323
Recommended Mains Fuse Size		A	315	355	355
Motor Rating		kW	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
Unit Nominal Run Amps		A	286.6	303.46	320.2
Recommended Mains Fuse Size		A	315	355	355
Motor Rating		kW	5.5	5.5	5.5
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	11.2	14.8	14.8
Unit Nominal Run Amps		A	286.6	307.06	323.8
Recommended Mains Fuse Size		A	315	355	355
Motor Rating		kW	5.5	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

ELECTRICAL DATA			DCC046DX-10BTT0	DCC048DX-12BTT0	DCC051DX-10BVV0
Unit Data					
Nominal Run Amps	(1)	A	333.66	341.46	370.2
Maximum Start Amps	(2)	A	604.55	612.35	641
Recommended Mains Fuse Size		A	355	355	400
Mains Supply		VAC	400 V 3 PH 50 Hz	400 V 3 PH 50 Hz	400V 3 PH 50 Hz
Max Mains Incoming Cable Size		mm ²	Direct to Bus Bar	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			10	12	10
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	49.1 / 49.1	49.1 / 49.1	55.2 / 55.2
Quantity			3 + 3	3 + 3	3 + 3
Motor Rating		kW	28.8 / 28.8	28.8 / 28.8	33.1 / 33.1
Sump Heater Rating		W	130	130	140
Start Amps	(2)	A	320 / 320	320 / 320	326 / 326
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	301.634	309.434	340.741
Maximum Start Amps		A	577.861	585.661	616.451
Compressor Nominal Run Amps		A	43.8 / 43.8	43.8 / 43.8	50.3 / 50.3
Recommended Mains Fuse Size		A	355	355	400
Electronic Soft-start					
Nominal Run Amps		A	333.66	341.46	370.2
Maximum Start Amps		A	476.55	484.35	510.6
Recommended Mains Fuse		A	355	355	400
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	301.634	309.434	340.741
Maximum Start Amps		A	449.861	457.661	486.051
Compressor Nominal Run Amps		A	43.8 / 43.8	43.8 / 43.8	50.3 / 50.3
Recommended Mains Fuse Size		A	355	355	400
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	12	12	12
Unit Nominal Run Amps		A	345.66	353.46	382.2
Recommended Mains Fuse Size		A	355	355	450
Motor Rating		kW	5.5	5.5	5.5
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	14	14	14
Unit Nominal Run Amps		A	347.66	355.46	384.2
Recommended Mains Fuse Size		A	355	355	450
Motor Rating		kW	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
Unit Nominal Run Amps		A	344.86	352.66	381.4
Recommended Mains Fuse Size		A	355	355	450
Motor Rating		kW	5.5	5.5	5.5
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	14.8	14.8	14.8
Unit Nominal Run Amps		A	348.46	356.26	385
Recommended Mains Fuse Size		A	355	355	450
Motor Rating		kW	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

Sound Data - DCC

	Sound	Frequency								Total dB(A)
		63Hz dB	125Hz dB	250Hz dB	500Hz dB	1000Hz dB	2000Hz dB	4000Hz dB	8000Hz dB	
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**

	Sound	Frequency								Total
		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	
		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**

		Frequency								
	Sound	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.

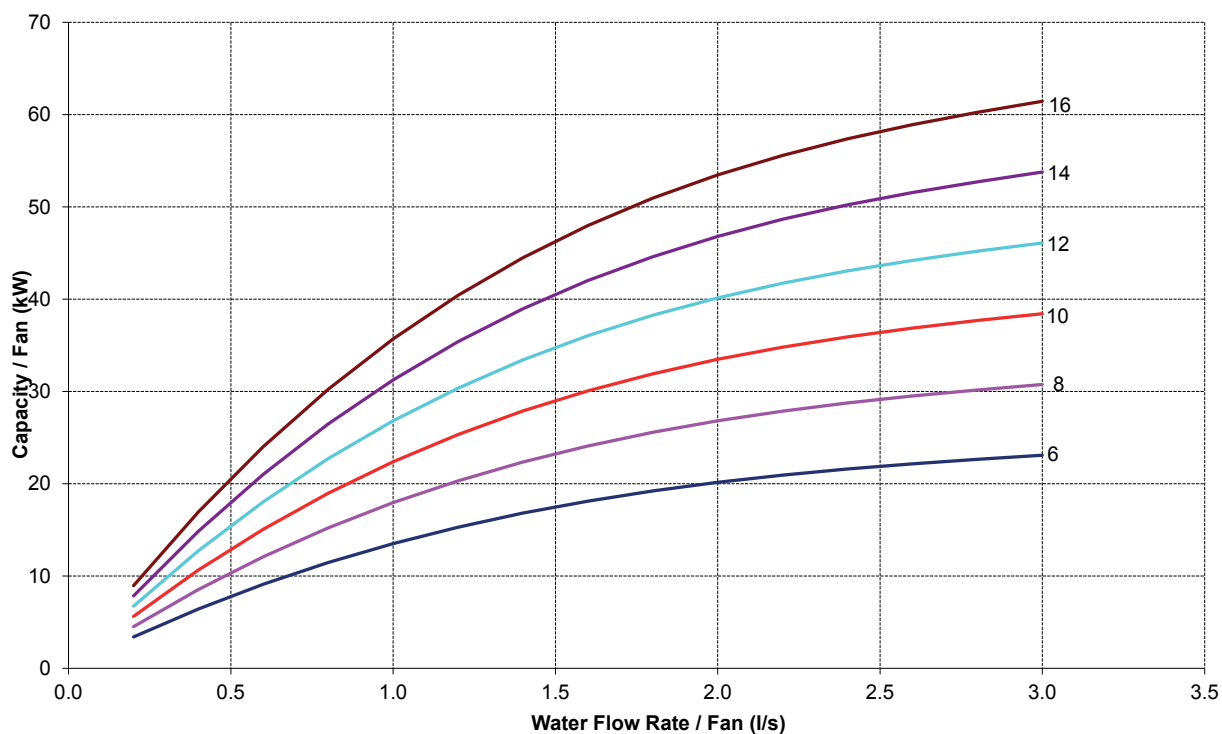
Example:
Return water temperature 15°C
Temperature difference from ambient to return water temperature 10°C
Therefore ambient 5°C

DCF014SR-04AL00 chiller having 4 fans equates to

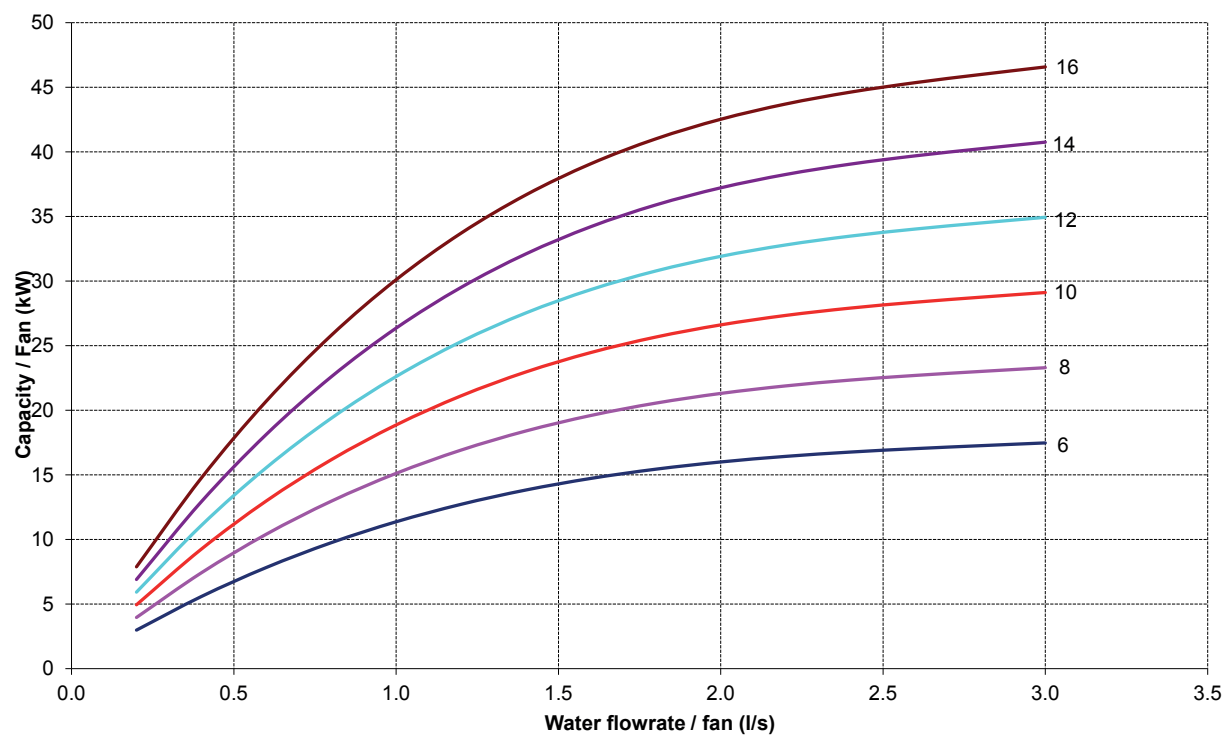
Cooling capacity	35kW x 4	=	140kW*
Flowrate	2 l/s x 4	=	8 l/s*

*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 ÷ (Cp × 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

- 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 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

- 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 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.
- 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 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

			DCF014SR-04AL00	DCF017SR-04AM00	DCF021SR-04BS00
Number of Refrigeration Circuits			1	1	1
Free Cool Enabled			Yes	Yes	Yes
Cooling Duty - EC fans	(1)	kW	145.8	180.3	208.2
Nominal Input - Mechanical		kW	41.7	55.8	67.3
EER	(2)		3.50	3.23	3.10
ESEER	(3)		4.28	3.94	4.17
Nominal Output - Free Cooling	(4)	kW	153.29	169.09	178.47
Ambient temperature for 100% Free Cooling	(5)		3.50	2.20	0.90
Capacity Steps		%	55-100	55-100	40-70-100
Minimum Turndown Ratio			0.54	0.55	0.38
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554
Mass					
Machine	(6)	kg	1905	2030	2105
Operating		kg	2060	2190	2275
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	13.2	16.2	20.3
Total Maximum Water flow		l/s	9.9	11.4	13.6
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	9.50	9.50	9.50
Nominal Airflow - EC Fans		m ³ /s	22.5	22.5	22.5
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Tandem	Tandem	Trio
Quantity of Compressors			2	2	3
Oil Charge Volume (Total)		l	2 x 6.7	2 x 7.2	3 x 6.7
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	30	31	33
GWP Tonnes Equivalent CO ₂		tCO ₂	63	65	69
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1440	1793	1452
Maximum System Operating Pressure		Bar	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

			DCF025SR-06BT00	DCF013DR-04ACD0	DCF014DR-04ADD0
Number of Refrigeration Circuits			1	2	2
Free Cool Enabled			Yes	Yes	Yes
Cooling Duty - EC fans	(1)	kW	265.0	135.2	146.4
Nominal Input - Mechanical		kW	84.7	37.5	41.4
EER	(2)		3.13	3.60	3.53
ESEER	(3)		4.17	4.19	3.98
Nominal Output - Free Cooling	(4)	kW	251.50	147.28	153.59
Ambient temperature for 100% Free Cooling	(5)		2.30	3.90	3.50
Capacity Steps		%	40-70-100	45-100	50-100
Minimum Turndown Ratio			0.38	0.46	0.50
Dimensions (H x W x L)		mm	2645 x 2200 x 3690	2635 x 2200 x 2554	2635 x 2200 x 2554
Mass					
Machine	(6)	kg	2925	1915	1915
Operating		kg	3210	2075	2075
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	25.7	13.2	13.2
Total Maximum Water flow		l/s	16.8	9.0	10.0
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	14.25	9.50	9.50
Nominal Airflow - EC Fans		m ³ /s	33.8	22.5	22.5
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	4	4
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Trio	Single + Single	Single + Single
Quantity of Compressors			3	2	2
Oil Charge Volume (Total)		l	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			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	49	15 + 15	15 + 15
GWP Tonnes Equivalent CO ₂		tCO ₂	102	63	63
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN100	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1845	1127	1330
Maximum System Operating Pressure		Bar	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

			DCF015DR-04ADF0	DCF016DR-04AJJ0	DCF018DR-04BJK0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			Yes	Yes	Yes
Cooling Duty - EC fans	(1)	kW	164.3	175.5	202.2
Nominal Input - Mechanical		kW	48.8	52.5	64.2
EER	(2)		3.37	3.34	3.15
ESEER	(3)		3.99	4.22	4.10
Nominal Output - Free Cooling	(4)	kW	162.4	166.8	176.6
Ambient temperature for 100% Free Cooling	(5)		2.8	2.4	1.2
Capacity Steps		%	45-100	25-55-75-100	25-55-75-100
Minimum Turndown Ratio			0.45	0.27	0.24
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554
Mass					
Machine	(6)	kg	1990	2030	2150
Operating		kg	2150	2190	2320
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	16.4	16.4	22.5
Total Maximum Water flow		l/s	10.7	11.1	12.7
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	9.50	9.50	9.50
Nominal Airflow - EC Fans		m ³ /s	22.5	22.5	22.5
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Single + Single	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			2	4	4
Oil Charge Volume (Total)		l	1 x 6.7 + 1 x 7.2	2 x 3.6 + 2 x 3.6	2 x 3.6 + 2 x 6.7
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	15 + 16	15 + 16	17 + 18
GWP Tonnes Equivalent CO ₂		tCO ₂	65	65	73
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1348	871	874
Maximum System Operating Pressure		Bar	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

			DCF020DR-06BFK0	DCF023DR-06BKK0	DCF026DR-06BKL0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			Yes	Yes	Yes
Cooling Duty - EC fans	(1)	kW	212.1	236.6	262.6
Nominal Input - Mechanical		kW	61.5	70.4	79.1
EER	(2)		3.45	3.36	3.32
ESEER	(3)		4.07	4.24	4.28
Nominal Output - Free Cooling	(4)	kW	226.2	239.0	250.5
Ambient temperature for 100% Free Cooling	(5)		3.7	3.1	2.4
Capacity Steps		%	45-75-100	25-55-75-100	25-55-75-100
Minimum Turndown Ratio			0.44	0.27	0.25
Dimensions (H x W x L)		mm	2645 x 2200 x 3690	2645 x 2200 x 3690	2645 x 2200 x 3690
Mass					
Machine	(6)	kg	2750	2820	2935
Operating		kg	2990	3060	3225
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	22.5	22.5	30.6
Total Maximum Water flow		l/s	13.7	15.3	17.2
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	14.25	14.25	14.25
Nominal Airflow - EC Fans		m ³ /s	33.8	33.8	33.8
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	6	6
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Single + Tandem	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			3	4	4
Oil Charge Volume (Total)		l	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			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	23 + 24	23 + 24	24 + 27
GWP Tonnes Equivalent CO ₂		tCO ₂	98	98	106
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN80	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1704	1176	1190
Maximum System Operating Pressure		Bar	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

			DCF029DR-06BLL0	DCF032DR-08BLM0	DCF035DR-08BMM0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			Yes	Yes	Yes
Cooling Duty - EC fans	(1)	kW	283.6	326.1	358.6
Nominal Input - Mechanical		kW	87.6	97.5	111.6
EER	(2)		3.24	3.34	3.21
ESEER	(3)		4.12	4.31	4.04
Nominal Output - Free Cooling	(4)	kW	258.5	323.7	337.4
Ambient temperature for 100% Free Cooling	(5)		1.8	2.9	2.2
Capacity Steps		%	25-55-75-100	25-55-75-100	25-55-75-100
Minimum Turndown Ratio			0.27	0.24	0.27
Dimensions (H x W x L)		mm	2645 x 2200 x 3690	2645 x 2200 x 4820	2645 x 2200 x 4820
Mass					
Machine	(6)	kg	2945	3630	3745
Operating		kg	3240	4015	4130
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	30.6	36.9	36.9
Total Maximum Water flow		l/s	18.8	21.3	22.6
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	14.25	19.00	19.00
Nominal Airflow - EC Fans		m ³ /s	33.8	45.0	45.0
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	8	8
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	1032	1032	1032
Compressor			Tandem + Tandem	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			4	4	4
Oil Charge Volume (Total)		l	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			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	25 + 27	32 + 34	32 + 34
GWP Tonnes Equivalent CO ₂		tCO ₂	109	138	138
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1415	1446	1786
Maximum System Operating Pressure		Bar	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

			DCF039DR-10BMS0	DCF044DR-10BSS0
Number of Refrigeration Circuits			2	2
Free Cool Enabled			Yes	Yes
Cooling Duty - EC fans	(1)	kW	399.9	428.8
Nominal Input - Mechanical		kW	118.6	129.2
EER	(2)		3.37	3.32
ESEER	(3)		4.30	4.38
Nominal Output - Free Cooling	(4)	kW	401.0	413.9
Ambient temperature for 100% Free Cooling	(5)		3.0	2.5
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 5956
Mass				
Machine	(6)	kg	4410	4430
Operating		kg	4895	4915
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)	
Evaporator			Brazen Plate	
Insulation			Class 1	
Water Volume (Total Internal)		l	54.0	54.0
Total Maximum Water flow		l/s	26.2	28.7
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins	
Face Area (Total)		m ²	23.75	23.75
Nominal Airflow - EC Fans		m ³ /s	56.3	56.3
Condenser Fan & Motor			Sickle Bladed Fan	
Quantity			10	10
Diameter		mm	800	800
Maximum Speed - EC Fans		rpm	1032	1032
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			R410A / 2088	
Refrigerant Precharged / GWP				
Charge (Total)		kg	43 + 45	43 + 45
GWP Tonnes Equivalent CO ₂		tCO ₂	184	184
Refrigerant Control			Electronic Expansion Valve (EEV)	
Connections			Grooved Terminations	
Water Inlet / Outlet - Unit			DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2
Water System				
Minimum System Water Volume	(7)	l	1825	1473
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

Mechanical Data DCF X Type

			DCF014SX-04AL00	DCF017SX-04AM00	DCF021SX-06BS00
Number of Refrigeration Circuits			1	1	1
Free Cool Enabled			Yes	Yes	Yes
Cooling Duty - EC fans	(1)	kW	142.9	173.2	211.2
Nominal Input - Mechanical		kW	41.4	55.8	62.2
EER	(2)		3.45	3.10	3.40
ESEER	(3)		4.28	3.93	4.52
Nominal Output - Free Cooling	(4)	kW	121.4	130.1	180.9
Ambient temperature for 100% Free Cooling	(5)		0.8	-1.0	0.9
Capacity Steps		%	55-100	55-100	40-70-100
Minimum Turndown Ratio			0.55	0.57	0.39
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2645 x 2200 x 3690
Mass					
Machine	(6)	kg	1985	2115	2775
Operating		kg	2145	2275	3015
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	13.2	16.2	20.3
Total Maximum Water flow		l/s	9.6	11.0	14.2
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	9.50	9.50	14.25
Nominal Airflow - EC Fans		m ³ /s	13.8	13.8	20.8
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	6
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Tandem	Tandem	Trio
Quantity of Compressors			2	2	3
Oil Charge Volume (Total)		l	2 x 6.7	2 x 7.2	3 x 6.7
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	30	31	45
GWP Tonnes Equivalent CO ₂		tCO ₂	63	65	94
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1440	1793	1479
Maximum System Operating Pressure		Bar	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

			DCF025SX-06BT00	DCF013DX-04ACD0	DCF014DX-04ADD0
Number of Refrigeration Circuits			1	2	2
Free Cool Enabled			Yes	Yes	Yes
Cooling Duty - EC fans	(1)	kW	254.5	133.3	143.5
Nominal Input - Mechanical		kW	84.7	37.3	41.2
EER	(2)		3.00	3.57	3.48
ESEER	(3)		4.19	4.19	3.96
Nominal Output - Free Cooling	(4)	kW	193.9	117.7	121.6
Ambient temperature for 100% Free Cooling	(5)		-0.8	1.4	0.8
Capacity Steps		%	40-75-100	45-100	50-100
Minimum Turndown Ratio			0.40	0.46	0.50
Dimensions (H x W x L)		mm	2645 x 2200 x 3690	2635 x 2200 x 2554	2635 x 2200 x 2554
Mass					
Machine	(6)	kg	3040	2040	2045
Operating		kg	3325	2200	2200
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	25.7	13.2	13.2
Total Maximum Water flow		l/s	16.2	8.8	9.7
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	14.25	9.50	9.50
Nominal Airflow - EC Fans		m ³ /s	20.8	13.8	13.8
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	4	4
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Trio	Single + Single	Single + Single
Quantity of Compressors			3	2	2
Oil Charge Volume (Total)		l	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			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	49	15 + 15	15 + 15
GWP Tonnes Equivalent CO ₂		tCO ₂	102	63	63
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN100	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1845	1118	1304
Maximum System Operating Pressure		Bar	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

			DCF015DX-04ADF0	DCF016DX-04AJJ0	DCF018DX-04BJK0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			Yes	Yes	Yes
Cooling Duty - EC fans	(1)	kW	159.2	168.6	190.0
Nominal Input - Mechanical		kW	48.6	52.5	65.1
EER	(2)		3.27	3.21	2.92
ESEER	(3)		3.96	4.23	4.12
Nominal Output - Free Cooling	(4)	kW	126.50	128.80	133.37
Ambient temperature for 100% Free Cooling	(5)		-0.20	-0.70	-2.10
Capacity Steps		%	45-100	30-55-80-100	25-60-80-100
Minimum Turndown Ratio			0.46	0.28	0.25
Dimensions (H x W x L)		mm	2635 x 2200 x 2554	2635 x 2200 x 2554	2635 x 2200 x 2554
Mass					
Machine	(6)	kg	2115	2155	2275
Operating		kg	2275	2320	2445
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	16.4	16.4	22.5
Total Maximum Water flow		l/s	10.4	10.8	12.2
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	9.50	9.50	9.50
Nominal Airflow - EC Fans		m ³ /s	13.8	13.8	13.8
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Single + Single	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			2	4	4
Oil Charge Volume (Total)		l	1 x 6.7 + 1 x 7.2	2 x 3.6 + 2 x 3.6	2 x 3.6 + 2 x 6.7
Oil Type			Polyol Ester		
Refrigeration			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	15 + 16	15 + 16	17 + 18
GWP Tonnes Equivalent CO ₂		tCO ₂	65	65	73
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN80	DN80
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1320	871	874
Maximum System Operating Pressure		Bar	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

			DCF020DX-06BFK0	DCF023DX-06BKK0	DCF026DX-08BKL0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			Yes	Yes	Yes
Cooling Duty - EC fans	(1)	kW	208.0	230.0	264.9
Nominal Input - Mechanical		kW	61.2	70.1	75.0
EER	(2)		3.40	3.28	3.53
ESEER	(3)		4.03	4.24	4.53
Nominal Output - Free Cooling	(4)	kW	179.72	187.20	234.77
Ambient temperature for 100% Free Cooling	(5)		1.10	0.20	1.40
Capacity Steps		%	45-75-100	30-55-80-100	25-55-75-100
Minimum Turndown Ratio			0.45	0.28	0.25
Dimensions (H x W x L)		mm	2645 x 2200 x 3690	2645 x 2200 x 3690	2645 x 2200 x 4820
Mass					
Machine	(6)	kg	2905	2980	3675
Operating		kg	3145	3225	4050
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	22.5	22.5	30.6
Total Maximum Water flow		l/s	13.3	14.8	17.5
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	14.25	14.25	19.00
Nominal Airflow - EC Fans		m ³ /s	20.8	20.8	27.7
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	6	8
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Single + Tandem	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			3	4	4
Oil Charge Volume (Total)		l	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			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	23 + 24	23 + 24	30 + 33
GWP Tonnes Equivalent CO ₂		tCO ₂	98	98	132
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN80	DN80	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1690	1175	1207
Maximum System Operating Pressure		Bar	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

			DCF029DX-08BLL0	DCF032DX-08BLM0	DCF035DX-08BMM0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			Yes	Yes	Yes
Cooling Duty - EC fans	(1)	kW	284.9	315.9	344.2
Nominal Input - Mechanical		kW	82.8	97.2	111.5
EER	(2)		3.44	3.25	3.09
ESEER	(3)		4.38	4.32	4.04
Nominal Output - Free Cooling	(4)	kW	242.40	252.33	259.62
Ambient temperature for 100% Free Cooling	(5)		0.80	-0.10	-1.00
Capacity Steps		%	30-55-80-100	25-55-75-100	30-55-80-100
Minimum Turndown Ratio			0.28	0.25	0.29
Dimensions (H x W x L)		mm	2645 x 2200 x 4820	2645 x 2200 x 4820	2645 x 2200 x 4820
Mass					
Machine	(6)	kg	3690	3830	3945
Operating		kg	4065	4215	4330
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazen Plate		
Insulation			Class 1		
Water Volume (Total Internal)		l	30.6	36.9	36.9
Total Maximum Water flow		l/s	19.2	20.6	21.8
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins		
Face Area (Total)		m ²	19.00	19.00	19.00
Nominal Airflow - EC Fans		m ³ /s	27.7	27.7	27.7
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			8	8	8
Diameter		mm	800	800	800
Maximum Speed - EC Fans		rpm	657	657	657
Compressor			Tandem + Tandem	Tandem + Tandem	Tandem + Tandem
Quantity of Compressors			4	4	4
Oil Charge Volume (Total)		l	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			R410A / 2088		
Refrigerant Precharged / GWP					
Charge (Total)		kg	31 + 33	32 + 34	32 + 34
GWP Tonnes Equivalent CO ₂		tCO ₂	134	138	138
Refrigerant Control			Electronic Expansion Valve (EEV)		
Connections			Grooved Terminations		
Water Inlet / Outlet - Unit			DN100	DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2	1/2
Water System					
Minimum System Water Volume	(7)	l	1438	1446	1786
Maximum System Operating Pressure		Bar	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

			DCF039DX-10BMS0	DCF044DX-12BSS0
Number of Refrigeration Circuits			2	2
Free Cool Enabled			Yes	Yes
Cooling Duty - EC fans	(1)	kW	387.8	426.6
Nominal Input - Mechanical		kW	118.2	124.5
EER	(2)		3.28	3.43
ESEER	(3)		4.19	4.54
Nominal Output - Free Cooling	(4)	kW	313.33	363.30
Ambient temperature for 100% Free Cooling	(5)		0.10	0.90
Capacity Steps		%	25-45-65-85-100	20-40-55-70-85-100
Minimum Turndown Ratio			0.26	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			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)	
Evaporator			Brazen Plate	
Insulation			Class 1	
Water Volume (Total Internal)		l	54.0	54.0
Total Maximum Water flow		l/s	25.4	28.7
Condenser			Epoxy Coated Aluminium Micro channel & Aluminium Fins	
Face Area (Total)		m ²	23.75	28.50
Nominal Airflow - EC Fans		m ³ /s	34.6	41.5
Condenser Fan & Motor			Sickle Bladed Fan	
Quantity			10	12
Diameter		mm	800	800
Maximum Speed - EC Fans		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			R410A / 2088	
Refrigerant Precharged / GWP				
Charge (Total)		kg	37 + 50	49 + 51
GWP Tonnes Equivalent CO ₂		tCO ₂	182	209
Refrigerant Control			Electronic Expansion Valve (EEV)	
Connections			Grooved Terminations	
Water Inlet / Outlet - Unit			DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2
Water System				
Minimum System Water Volume	(7)	l	1802	1485
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

ELECTRICAL DATA			DCF014SR-04AL00	DCF017SR-04AM00	DCF021SR-04BS00
Unit Data					
Nominal Run Amps	(1)	A	91	114	129
Maximum Start Amps	(2)	A	314	385	351
Recommended Mains Fuse Size		A	125	160	160
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			4	4	4
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	37.9	49.1	37.9
Quantity			2	2	3
Motor Rating		kW	22.4	28.8	22.4
Sump Heater Rating		W	75	130	75
Start Amps		A	260	320	260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	84	103	118
Maximum Start Amps		A	310	379	344
Compressor Nominal Run Amps		A	34.1	43.8	34.1
Recommended Mains Fuse Size		A	125	160	160
Electronic Soft-start					
Nominal Run Amps		A	91	114	129
Maximum Start Amps		A	210	257	247
Recommended Mains Fuse		A	125	160	160
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	84	103	118
Maximum Start Amps		A	206	251	240
Compressor Nominal Run Amps		A	34.1	43.8	34.1
Recommended Mains Fuse Size		A	125	160	160
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.1	8.7	8.7
Unit Nominal Run Amps		A	98	123	138
Recommended Mains Fuse Size		A	125	160	200
Motor Rating		kW	3	4	4
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.7	10.4	10.4
Unit Nominal Run Amps		A	100	124	140
Recommended Mains Fuse Size		A	125	160	200
Motor Rating		kW	4	5.5	5.5
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.3	6.3	8
Unit Nominal Run Amps		A	98	120	137
Recommended Mains Fuse Size		A	125	160	200
Motor Rating		kW	3	3	4
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8	8	11.2
Unit Nominal Run Amps		A	99	122	141
Recommended Mains Fuse Size		A	125	160	200
Motor Rating		kW	4	4	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 DCF R Type

ELECTRICAL DATA			DCF025SR-06BT00	DCF013DR-04ACD0	DCF014DR-04ADD0
Unit Data					
Nominal Run Amps (1)	(1)	A	171	85	91
Maximum Start Amps		A	442	314	314
Recommended Mains Fuse Size		A	200	125	125
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			6	4	4
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	49.1	31.8 / 37.9	37.9 / 37.9
Quantity			3	1 + 1	1 + 1
Motor Rating		kW	28.8	18.8 / 22.4	22.4 / 22.4
Sump Heater Rating		W	130	75	75
Start Amps		A	320	215 / 260	260 / 260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	155	78	84
Maximum Start Amps		A	431	310	310
Compressor Nominal Run Amps		A	43.8	28.5 / 34.1	34.1 / 34.1
Recommended Mains Fuse Size		A	200	125	125
Electronic Soft-start					
Nominal Run Amps		A	171	85	91
Maximum Start Amps		A	314	203	210
Recommended Mains Fuse		A	200	125	125
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	155	78	84
Maximum Start Amps		A	303	200	206
Compressor Nominal Run Amps		A	43.8	28.5 / 34.1	34.1 / 34.1
Recommended Mains Fuse Size		A	200	125	125
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	10.4	6.1	6.1
Unit Nominal Run Amps		A	181	91	98
Recommended Mains Fuse Size		A	200	125	125
Motor Rating		kW	5.5	3	3
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	10.4	8.7	8.7
Unit Nominal Run Amps		A	181	94	100
Recommended Mains Fuse Size		A	200	125	125
Motor Rating		kW	5.5	4	4
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	11.2	6.3	6.3
Unit Nominal Run Amps		A	182	92	98
Recommended Mains Fuse Size		A	200	125	125
Motor Rating		kW	5.5	3	3
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	14.8	8	8
Unit Nominal Run Amps		A	186	93	99
Recommended Mains Fuse Size		A	200	125	125
Motor Rating		kW	7.5	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

ELECTRICAL DATA			DCF015DR-04ADF0	DCF016DR-04AJJ0	DCF018DR-04BJK0
Unit Data					
Nominal Run Amps (1)	(1)	A	103	114	128
Maximum Start Amps		A	385	286	312
Recommended Mains Fuse Size		A	125	160	160
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			4	4	4
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	37.9 / 49.1	24.6 / 24.6	24.6 / 31.8
Quantity			1 + 1	4	2 + 2
Motor Rating		kW	22.4 / 28.8	13.6 / 13.6	13.6 / 18.8
Sump Heater Rating		W	75	75	75
Start Amps		A	260 / 320	197 / 197	197 / 215
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	93	98	114
Maximum Start Amps		A	379	275	300
Compressor Nominal Run Amps		A	34.1 / 43.8	20.7 / 20.7	20.7 / 28.5
Recommended Mains Fuse Size		A	125	160	160
Electronic Soft-start					
Nominal Run Amps		A	103	114	128
Maximum Start Amps		A	246	208	226
Recommended Mains Fuse		A	125	160	160
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	93	98	114
Maximum Start Amps		A	242	196	214
Compressor Nominal Run Amps		A	34.1 / 43.8	20.7 / 20.7	20.7 / 28.5
Recommended Mains Fuse Size		A	125	160	160
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.7	8.7	8.7
Unit Nominal Run Amps		A	111	123	137
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	4	4	4
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	10.4	10.4	10.4
Unit Nominal Run Amps		A	113	124	139
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	5.5	5.5	5.5
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.3	6.3	8
Unit Nominal Run Amps		A	109	120	136
Recommended Mains Fuse Size		A	125	160	160
Motor Rating		kW	3	3	4
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8	8	11.2
Unit Nominal Run Amps		A	111	122	140
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	4	4	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 DCF R Type

ELECTRICAL DATA			DCF020DR-06BFK0	DCF023DR-06BKK0	DCF026DR-06BKL0
Unit Data					
Nominal Run Amps (1)	(1)	A	136	151	163
Maximum Start Amps		A	407	334	385
Recommended Mains Fuse Size		A	160	200	200
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			6	6	6
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	49.1 / 31.8	31.8 / 31.8	31.8 / 37.9
Quantity			1 + 2	2 + 2	2 + 2
Motor Rating		kW	28.8 / 18.8	18.8 / 18.8	18.8 / 22.4
Sump Heater Rating		W	130 / 75	75	75
Start Amps		A	320 / 215	215 / 215	215 / 260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	124	137	149
Maximum Start Amps		A	400	324	374
Compressor Nominal Run Amps		A	43.8 / 28.5	28.5 / 28.5	28.5 / 34.1
Recommended Mains Fuse Size		A	160	200	200
Electronic Soft-start					
Nominal Run Amps		A	136	151	163
Maximum Start Amps		A	279	248	281
Recommended Mains Fuse		A	160	200	200
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	124	137	149
Maximum Start Amps		A	272	238	270
Compressor Nominal Run Amps		A	43.8 / 28.5	28.5 / 28.5	28.5 / 34.1
Recommended Mains Fuse Size		A	160	200	200
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.7	8.7	10.4
Unit Nominal Run Amps		A	145	159	173
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	4	4	5.5
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	10.4	10.4	10.4
Unit Nominal Run Amps		A	146	161	173
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	5.5	5.5	5.5
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8	8	11.2
Unit Nominal Run Amps		A	144	159	174
Recommended Mains Fuse Size		A	160	200	200
Motor Rating		kW	4	4	5.5
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	11.2	11.2	14.8
Unit Nominal Run Amps		A	147	162	178
Recommended Mains Fuse Size		A	160	200	200
Motor Rating		kW	5.5	5.5	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 R Type

ELECTRICAL DATA			DCF029DR-06BLL0	DCF032DR-08BLM0	DCF035DR-08BMM0
Unit Data					
Nominal Run Amps (1)	(1)	A	175	205	228
Maximum Start Amps		A	397	476	499
Recommended Mains Fuse Size		A	250	250	250
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			6	6	8
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	37.9 / 37.9	37.9 / 49.1	49.1 / 49.1
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	22.4 / 22.4	22.4 / 28.8	28.8 / 28.8
Sump Heater Rating		W	75	75 + 130	130
Start Amps		A	260 / 260	260 / 320	320 / 320
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	160	187	206
Maximum Start Amps		A	386	463	483
Compressor Nominal Run Amps		A	34.1 / 34.1	34.1 / 43.8	43.8 / 43.8
Recommended Mains Fuse Size		A	250	250	250
Electronic Soft-start					
Nominal Run Amps		A	175	205	228
Maximum Start Amps		A	293	348	371
Recommended Mains Fuse		A	250	250	250
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	160	187	206
Maximum Start Amps		A	282	335	355
Compressor Nominal Run Amps		A	34.1 / 34.1	34.1 / 43.8	43.8 / 43.8
Recommended Mains Fuse Size		A	250	250	250
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	10.4	10.4	10.4
Unit Nominal Run Amps		A	185	216	238
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	5.5	5.5	5.5
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	13.6	13.6	13.6
Unit Nominal Run Amps		A	189	219	241
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	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
Unit Nominal Run Amps		A	186	216	239
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	5.5	5.5	5.5
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	14.8	14.8	14.8
Unit Nominal Run Amps		A	190	220	242
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	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 R Type

ELECTRICAL DATA			DCF039DR-10BMS0	DCF044DR-10BSS0
Unit Data				
Nominal Run Amps (1)	(1)	A	251	266
Maximum Start Amps		A	522	489
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		mm ²	Direct to Bus Bar	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	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC
Evaporator				
Pad Heater Rating		W	?	?
External Trace Heating				
Available (fitted by others)		W	500	500
Condenser Fan - Per Fan (EC)				
Quantity			10	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 / 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		A	320 / 260	260 / 260
Type Of Start			Direct on line	Direct on line
OPTIONAL EXTRAS				
Power Factor Correction				
Nominal Run Amps		A	229	244
Maximum Start Amps		A	505	469
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	266
Maximum Start Amps		A	394	385
Recommended Mains Fuse		A	315	315
Power Factor Correction & Electronic Soft Start				
Nominal Run Amps		A	229	244
Maximum Start Amps		A	377	365
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	280
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	288
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	281
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	288
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

Electrical Data DCF X Type

ELECTRICAL DATA			DCF014SX-04AL00	DCF017SX-04AM00	DCF021SX-06BS00
Unit Data					
Nominal Run Amps (1)	(1)	A	91	114	137
Maximum Start Amps		A	314	385	321
Recommended Mains Fuse Size		A	125	125	200
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			4	4	6
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	37.9	49.1	37.9
Quantity			2	2	3
Motor Rating		kW	22.4	28.8	22.4
Sump Heater Rating		W	75	130	75
Start Amps		A	260	320	260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	84	103	126
Maximum Start Amps		A	310	379	317
Compressor Nominal Run Amps		A	34.1	43.8	34.1
Recommended Mains Fuse Size		A	125	125	160
Electronic Soft-start					
Nominal Run Amps		A	91	114	137
Maximum Start Amps		A	210	257	255
Recommended Mains Fuse		A	125	125	200
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	84	103	126
Maximum Start Amps		A	206	251	248
Compressor Nominal Run Amps		A	34.1	43.8	34.1
Recommended Mains Fuse Size		A	125	125	160
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.1	8.7	8.7
Unit Nominal Run Amps		A	98	123	146
Recommended Mains Fuse Size		A	125	160	200
Motor Rating		kW	3	4	4
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.7	10.4	10.4
Unit Nominal Run Amps		A	100	124	148
Recommended Mains Fuse Size		A	125	160	200
Motor Rating		kW	4	5.5	5.5
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.3	6.3	8
Unit Nominal Run Amps		A	98	120	145
Recommended Mains Fuse Size		A	125	160	200
Motor Rating		kW	3	3	4
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8	8	11.2
Unit Nominal Run Amps		A	99	122	148
Recommended Mains Fuse Size		A	125	160	200
Motor Rating		kW	4	4	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 DCF X Type

ELECTRICAL DATA			DCF025SX-06BT00	DCF013DX-04ACD0	DCF014DX-04ADD0
Unit Data					
Nominal Run Amps (1)	(1)	A	171	85	91
Maximum Start Amps		A	393	314	314
Recommended Mains Fuse Size		A	200	125	125
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			6	4	4
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	49.1	31.8 / 37.9	37.9 / 37.9
Quantity			3	1 + 1	1 + 1
Motor Rating		kW	28.8	18.8 / 22.4	22.4 / 22.4
Sump Heater Rating		W	130	75	75
Start Amps		A	320	215 / 260	260 / 260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	155	78	84
Maximum Start Amps		A	387	310	310
Compressor Nominal Run Amps		A	43.8	28.5 / 34.1	34.1 / 34.1
Recommended Mains Fuse Size		A	200	125	125
Electronic Soft-start					
Nominal Run Amps		A	171	85	91
Maximum Start Amps		A	314	203	210
Recommended Mains Fuse		A	200	125	125
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	155	78	84
Maximum Start Amps		A	303	200	206
Compressor Nominal Run Amps		A	43.8	28.5 / 34.1	34.1 / 34.1
Recommended Mains Fuse Size		A	200	125	125
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.7	6.1	6.1
Unit Nominal Run Amps		A	179	91	98
Recommended Mains Fuse Size		A	200	125	125
Motor Rating		kW	4	3	3
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	10.4	8.7	8.7
Unit Nominal Run Amps		A	181	94	100
Recommended Mains Fuse Size		A	200	125	125
Motor Rating		kW	5.5	4	4
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	11.2	6.3	6.3
Unit Nominal Run Amps		A	182	92	98
Recommended Mains Fuse Size		A	200	125	125
Motor Rating		kW	5.5	3	3
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	14.8	8	8
Unit Nominal Run Amps		A	186	93	99
Recommended Mains Fuse Size		A	200	125	125
Motor Rating		kW	7.5	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

ELECTRICAL DATA			DCF015DX-04ADF0	DCF016DX-04AJJ0	DCF018DX-04BJK0
Unit Data					
Nominal Run Amps (1)	(1)	A	103	114	128
Maximum Start Amps		A	385	286	312
Recommended Mains Fuse Size		A	125	160	160
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			4	4	4
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	37.9 / 49.1	24.6 / 24.6	24.6 / 31.8
Quantity			1 + 1	4	2 + 2
Motor Rating		kW	22.4 / 28.8	13.6 / 13.6	13.6 / 18.8
Sump Heater Rating		W	75	75	75
Start Amps		A	260 / 320	197 / 197	197 / 215
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	93	98	114
Maximum Start Amps		A	379	275	300
Compressor Nominal Run Amps		A	34.1 / 43.8	20.7 / 20.7	20.7 / 28.5
Recommended Mains Fuse Size		A	125	160	160
Electronic Soft-start					
Nominal Run Amps		A	103	114	128
Maximum Start Amps		A	246	208	226
Recommended Mains Fuse		A	125	160	160
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	93	98	114
Maximum Start Amps		A	242	196	214
Compressor Nominal Run Amps		A	34.1 / 43.8	20.7 / 20.7	20.7 / 28.5
Recommended Mains Fuse Size		A	125	160	160
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.1	8.7	8.7
Unit Nominal Run Amps		A	109	123	137
Recommended Mains Fuse Size		A	125	160	160
Motor Rating		kW	3	4	4
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.7	10.4	10.4
Unit Nominal Run Amps		A	111	124	139
Recommended Mains Fuse Size		A	125	160	160
Motor Rating		kW	4	5.5	5.5
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.3	6.3	8
Unit Nominal Run Amps		A	109	120	136
Recommended Mains Fuse Size		A	125	160	160
Motor Rating		kW	3	3	4
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8	8	11.2
Unit Nominal Run Amps		A	111	122	140
Recommended Mains Fuse Size		A	125	160	160
Motor Rating		kW	4	4	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 DCF X Type

ELECTRICAL DATA			DCF020DX-06BFK0	DCF023DX-06BKK0	DCF026DX-08BKL0
Unit Data					
Nominal Run Amps (1)	(1)	A	136	151	171
Maximum Start Amps		A	407	334	393
Recommended Mains Fuse Size		A	160	160	200
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating		W	500	500	500
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			6	6	8
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	49.1 / 31.8	31.8 / 31.8	31.8 / 37.9
Quantity			1 + 2	2 + 2	2 + 2
Motor Rating		kW	28.8 / 18.8	18.8 / 18.8	18.8 / 22.4
Sump Heater Rating		W	130 / 75	75	75
Start Amps		A	320 / 215	215 / 215	215 / 260
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	124	137	156
Maximum Start Amps		A	400	324	382
Compressor Nominal Run Amps		A	43.8 / 28.5	28.5 / 28.5	28.5 / 34.1
Recommended Mains Fuse Size		A	160	160	200
Electronic Soft-start					
Nominal Run Amps		A	136	151	171
Maximum Start Amps		A	279	248	289
Recommended Mains Fuse		A	160	160	200
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	124	137	156
Maximum Start Amps		A	272	238	278
Compressor Nominal Run Amps		A	43.8 / 28.5	28.5 / 28.5	28.5 / 34.1
Recommended Mains Fuse Size		A	160	160	200
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.7	8.7	10.4
Unit Nominal Run Amps		A	145	159	181
Recommended Mains Fuse Size		A	160	200	200
Motor Rating		kW	4	4	5.5
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	10.4	10.4	10.4
Unit Nominal Run Amps		A	146	161	181
Recommended Mains Fuse Size		A	200	200	200
Motor Rating		kW	5.5	5.5	5.5
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8	8	11.2
Unit Nominal Run Amps		A	144	159	182
Recommended Mains Fuse Size		A	160	200	200
Motor Rating		kW	4	4	5.5
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	11.2	11.2	14.8
Unit Nominal Run Amps		A	147	162	185
Recommended Mains Fuse Size		A	160	200	200
Motor Rating		kW	5.5	5.5	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

ELECTRICAL DATA			DCF029DX-08BLL0	DCF032DX-08BLM0	DCF035DX-08BMM0
Unit Data					
Nominal Run Amps (1)	(1)	A	183	205	228
Maximum Start Amps		A	405	476	499
Recommended Mains Fuse Size		A	250	250	250
Mains Supply		VAC	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	Direct to Bus Bar	Direct to Bus Bar
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC	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	4 mm ² terminals	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC	24V/230VAC
Evaporator					
Pad Heater Rating		W	?	?	?
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (EC)					
Quantity			8	8	8
Full Load Amps		A	3.9	3.9	3.9
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.56	2.56	2.56
Compressor - Per Compressor					
Nominal Run Amps		A	37.9 / 37.9	37.9 / 49.1	49.1 / 49.1
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	22.4 / 22.4	22.4 / 28.8	28.8 / 28.8
Sump Heater Rating		W	75	75 + 130	130
Start Amps		A	260 / 260	260 / 320	320 / 320
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Nominal Run Amps		A	168	187	206
Maximum Start Amps		A	393	463	483
Compressor Nominal Run Amps		A	34.1 / 34.1	34.1 / 43.8	43.8 / 43.8
Recommended Mains Fuse Size		A	250	250	250
Electronic Soft-start					
Nominal Run Amps		A	183	205	228
Maximum Start Amps		A	301	348	371
Recommended Mains Fuse		A	250	250	250
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	168	187	206
Maximum Start Amps		A	289	335	355
Compressor Nominal Run Amps		A	34.1 / 34.1	34.1 / 43.8	43.8 / 43.8
Recommended Mains Fuse Size		A	250	250	250
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	10.4	10.4	10.4
Unit Nominal Run Amps		A	193	216	238
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	5.5	5.5	5.5
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	13.6	13.6	13.6
Unit Nominal Run Amps		A	196	219	241
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	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
Unit Nominal Run Amps		A	194	216	239
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	5.5	5.5	5.5
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	14.8	14.8	14.8
Unit Nominal Run Amps		A	198	220	242
Recommended Mains Fuse Size		A	250	250	250
Motor Rating		kW	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

ELECTRICAL DATA			DCF039DX-10BMS0	DCF044DX-12BSS0
Unit Data				
Nominal Run Amps (1)	(1)	A	251	274
Maximum Start Amps		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		mm ²	Direct to Bus Bar	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	4 mm ² terminals
Control Circuit		VAC	24V/230VAC	24V/230VAC
Evaporator				
Pad Heater Rating		W	?	?
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		A	320 / 260	260 / 260
Type Of Start			Direct on line	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								Total dB(A)
		63Hz dB	125Hz dB	250Hz dB	500Hz dB	1000Hz dB	2000Hz dB	4000Hz dB	8000Hz dB	
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

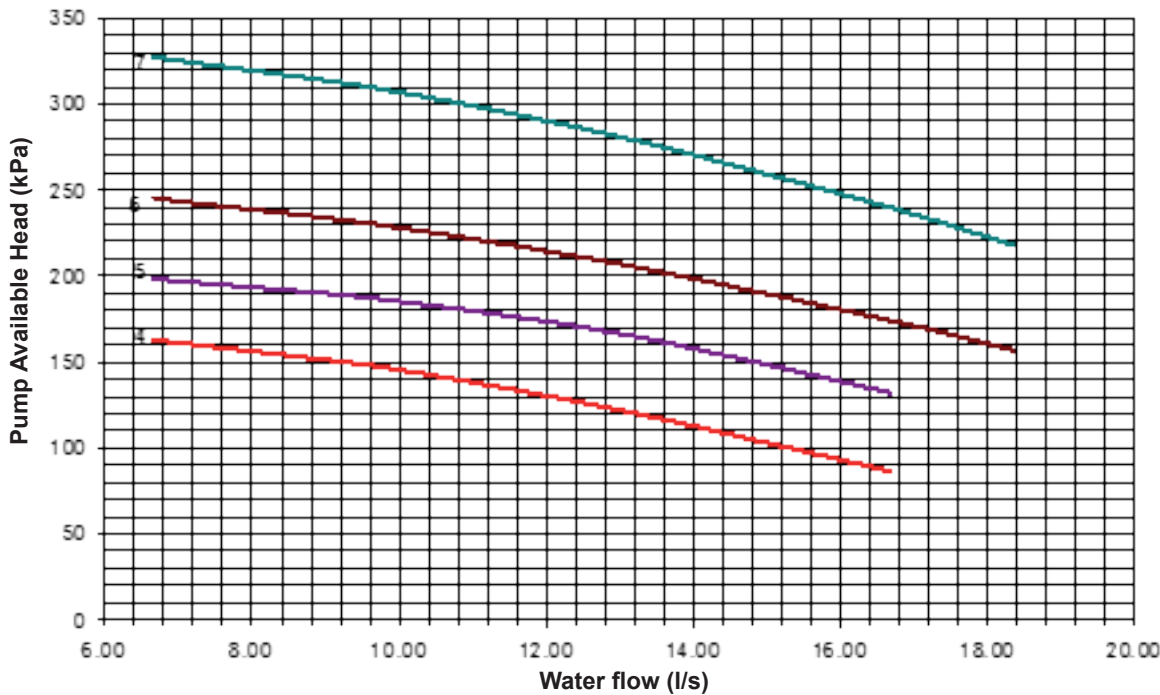
Example: DCC033DR-08BMH0

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

Unit	Waterflow(l/s)												
	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

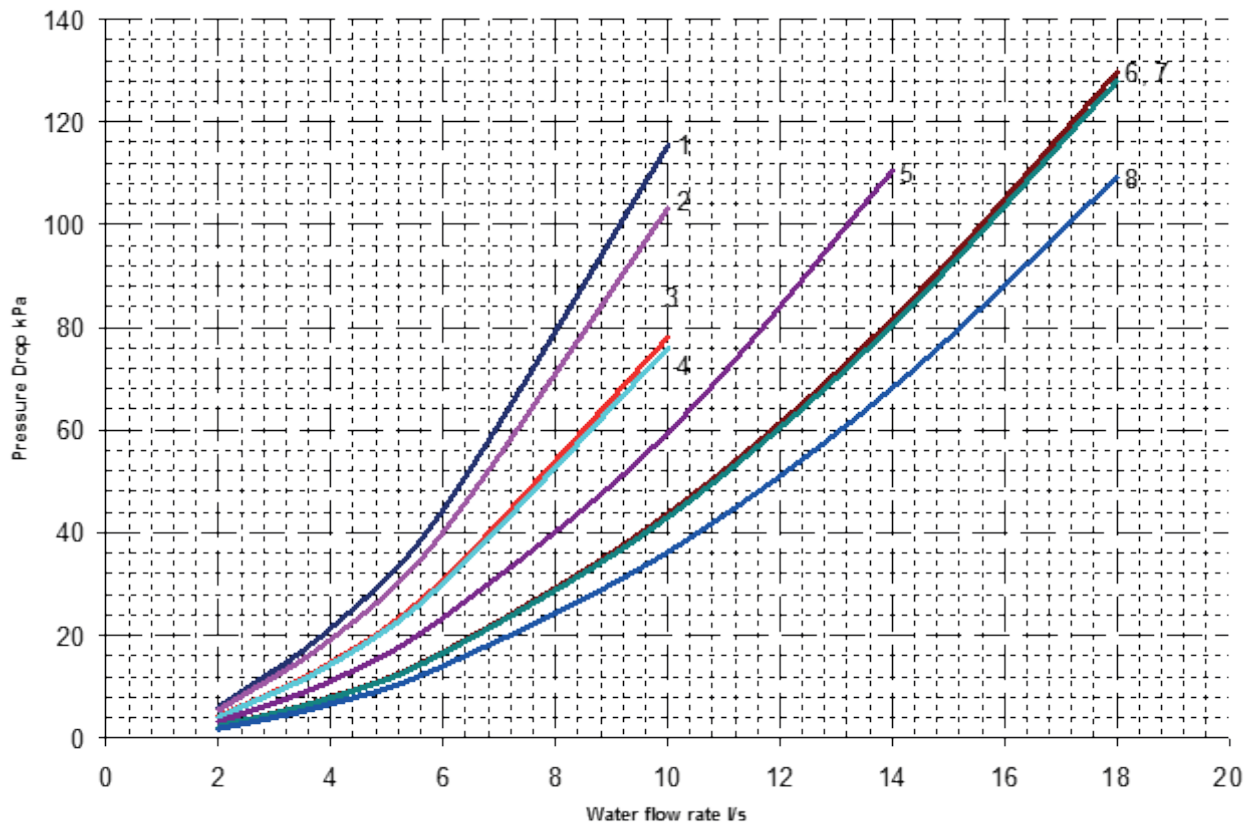
Water Pressure Drop - DCF

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-06BKL0	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-08BKL0		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

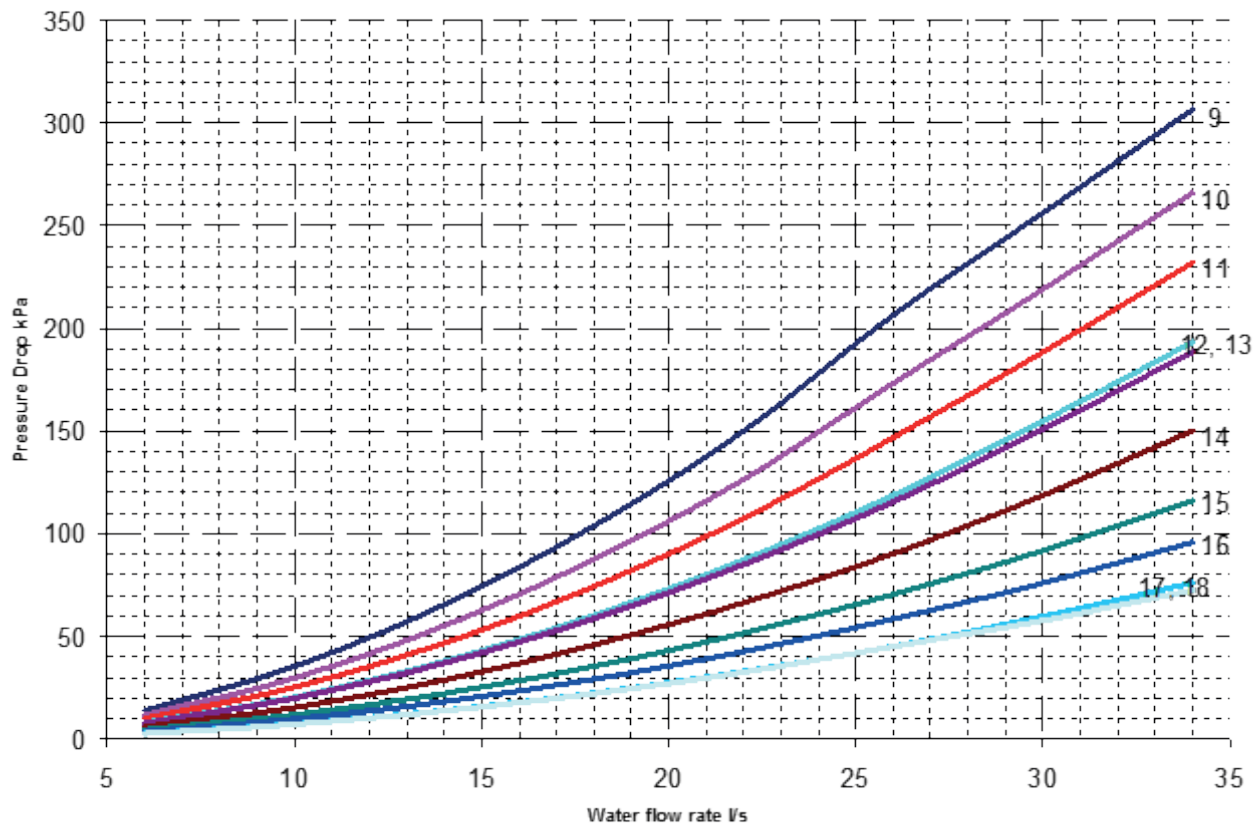
Evaporator Pressure Drops



Technical

Technical Data

Evaporator Pressure Drop Continued



Technical

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

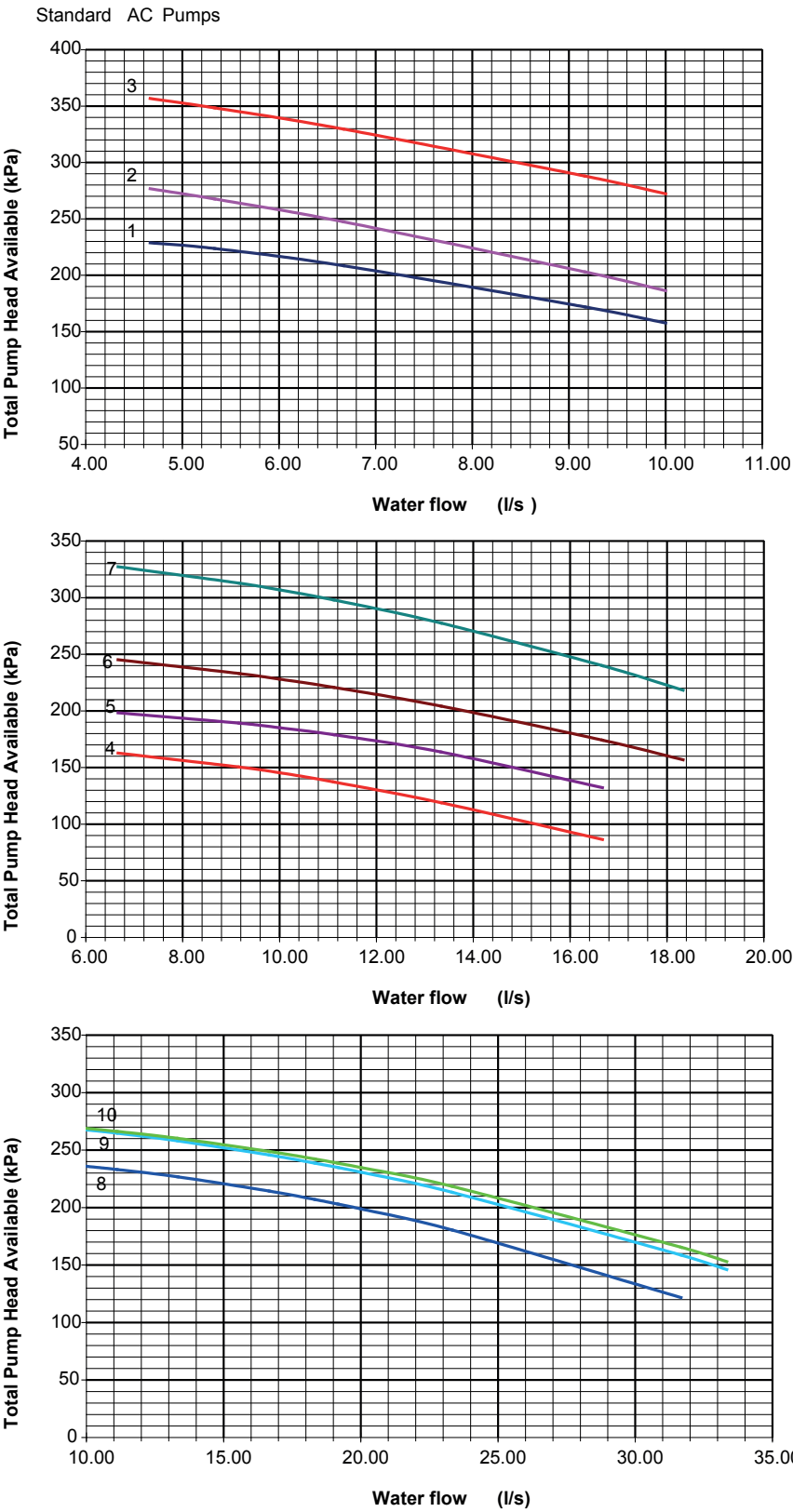
Pump Packages

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

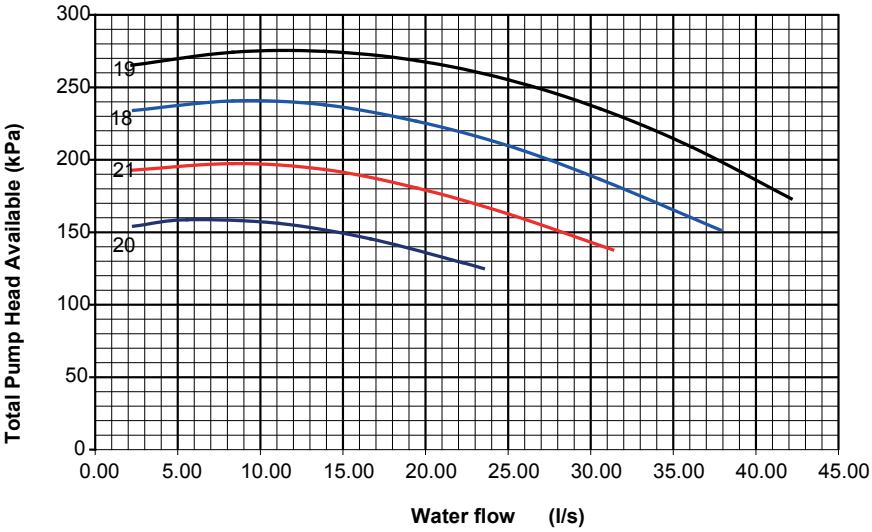
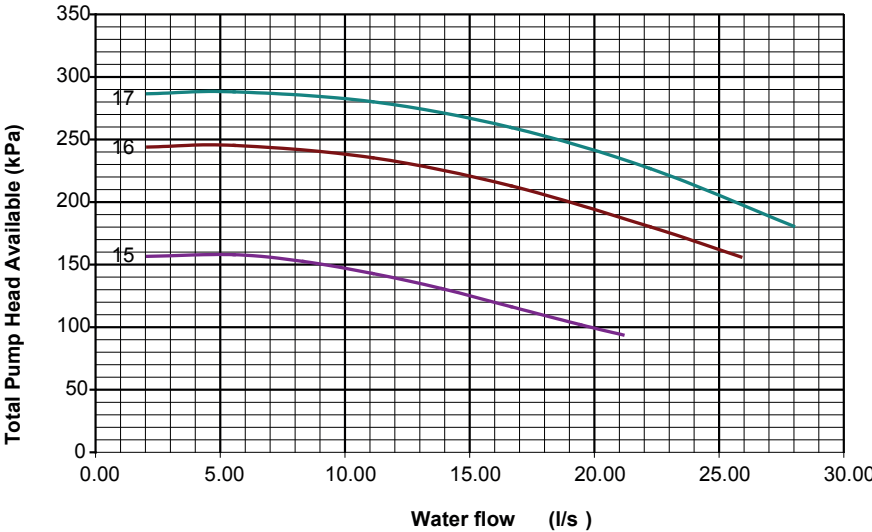
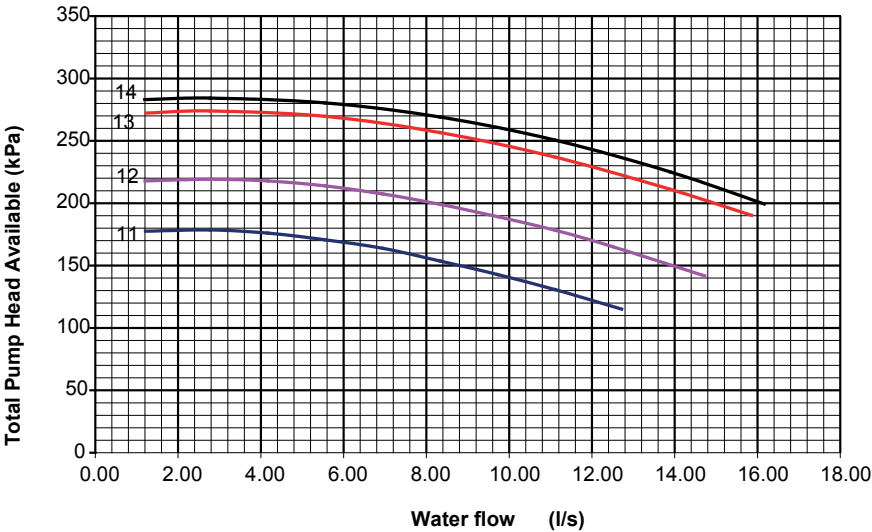
Single Head Pump or Run/Standby



Technical

Pump Packages
Inverter Driven Pumps

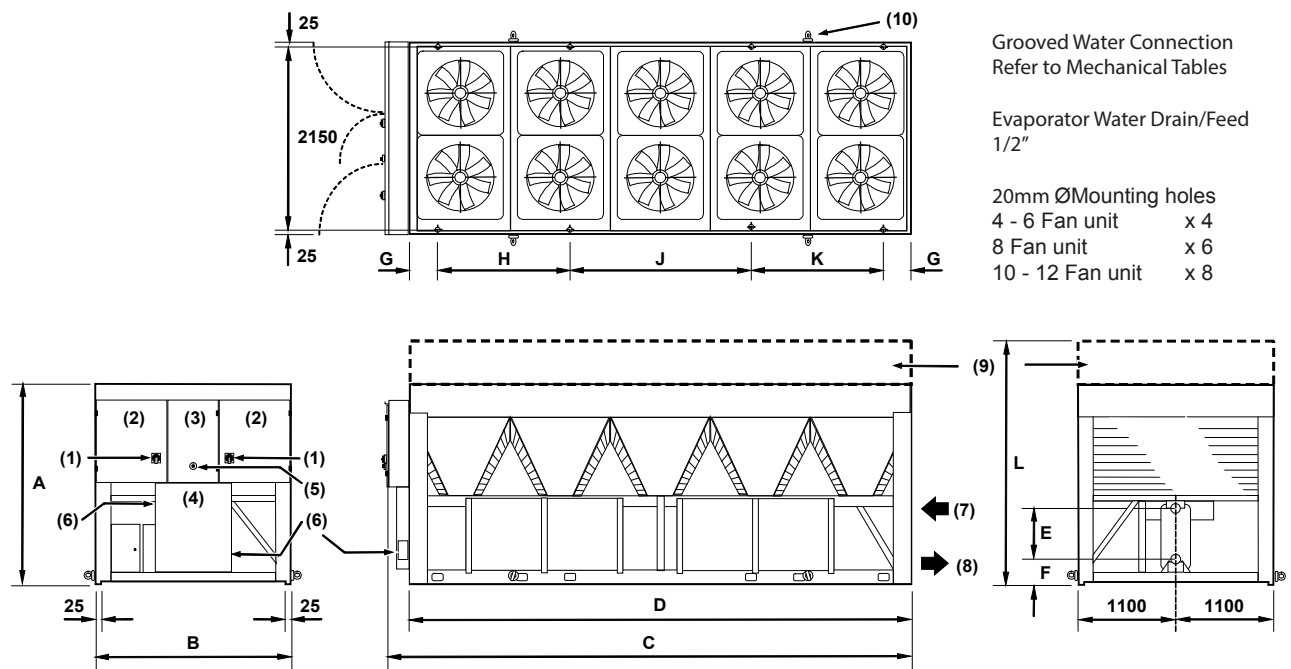
Technical



Installation Data

Dimensions

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



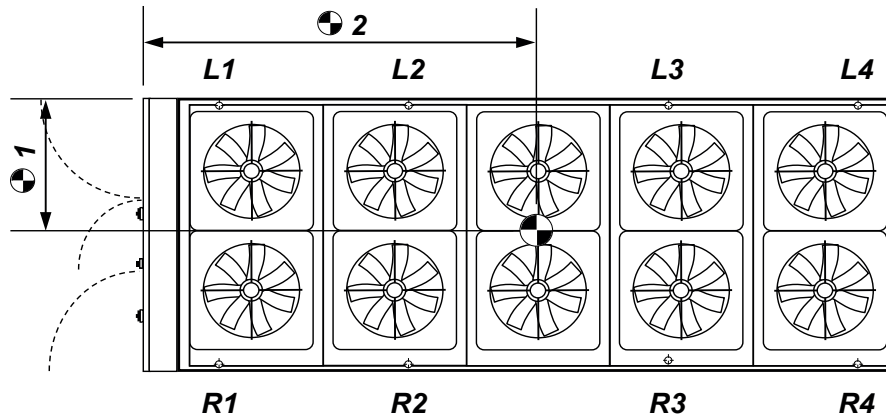
		A	B	C	D	E	F	G	H	J	K	I*
4 Fan	mm	2635	2200	2554	2270	550	196	310	1650	N/A	N/A	2905
6 Fan	mm	2645	2200	3690	3407	550	206	712	1982	N/A	N/A	2915
8 Fan	mm	2645	2200	4820	4539	550	206	416	1853	1853	N/A	2915
10 Fan	mm	2645	2200	5956	5672	550	206	311	1500	2050	1500	2915
12 Fan	mm	2645	2200	7090	6805	550	206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

Installation Data

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

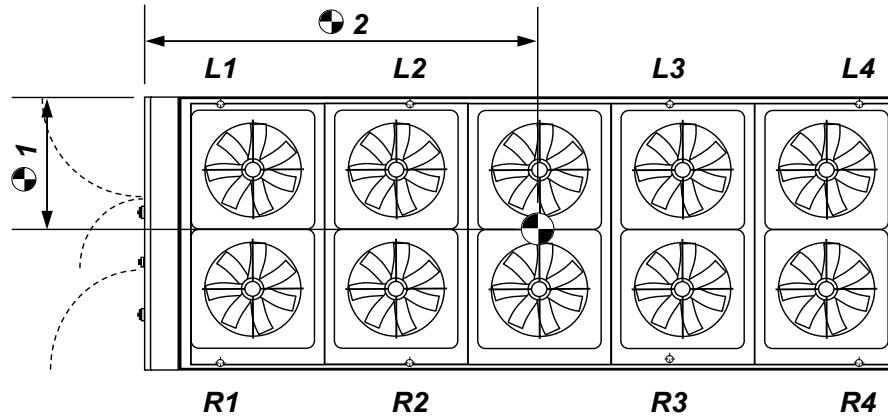


	L1	L2	L3	L4	R1	R2	R3	R4	C of G 1	C of G 2
	P1	P3	P5	P7	P2	P4	P6	P8	mm	mm
DCC011SR-04AK00	340	350			425	440			1220	1145
DCC014SR-04AL00	345	370			460	495			1255	1170
DCC017SR-04AM00	345	380			470	510			1260	1170
DCC021SR-04BS00	430	340			630	500			1305	1035
DCC023SR-04BT00	445	345			660	515			1310	1035
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)



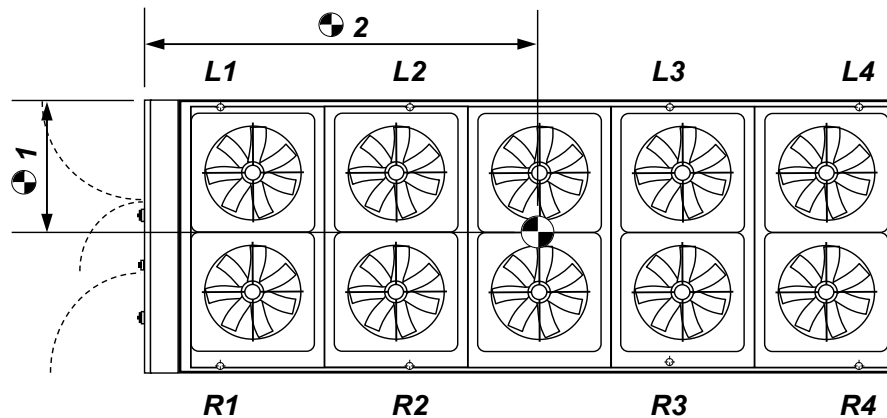
Installation

	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
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

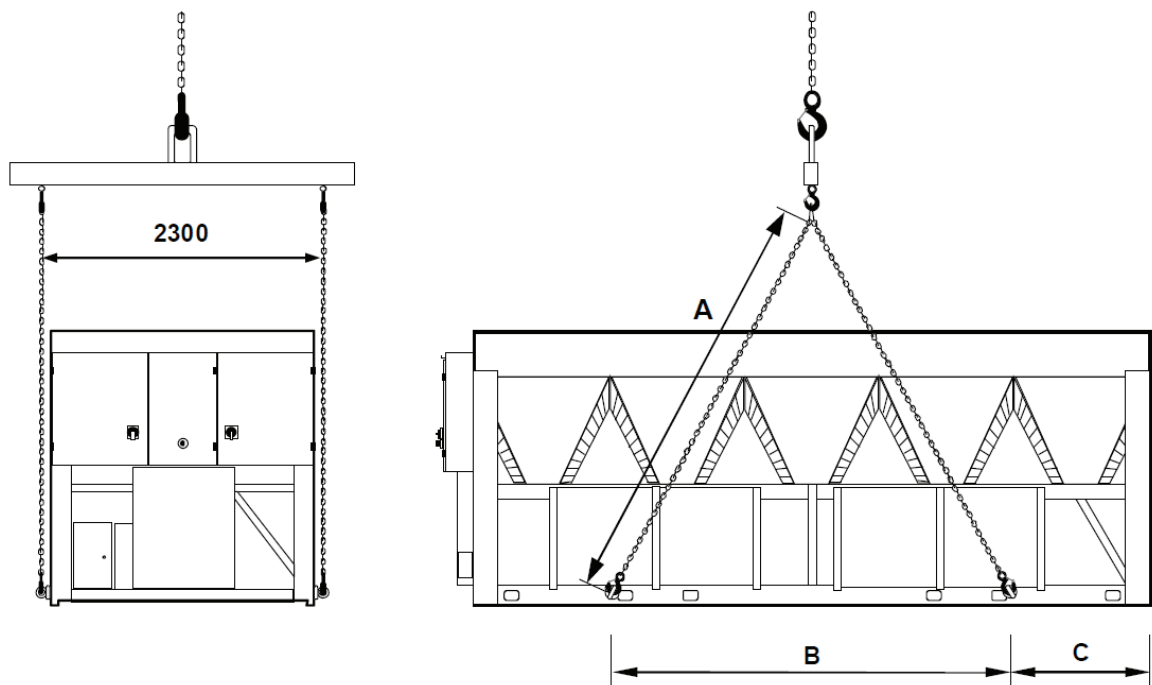
Number of Condenser Fans	4 Fan	6 Fan	8 fan	10 fan	12 fan
Eyebolt size	M30	M36	M36	M36	M36

IMPORTANT

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

- Only use lifting points provided.
- Chains/slings **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	B	C
4 Fan	mm	4000	1850	208
6 Fan	mm	4000	2186	210
8 Fan	mm	4000	3502	518
10 Fan	mm	4000	3336	1166
12 Fan	mm	5000	4745	1030

Installation

Installation Data

Positioning

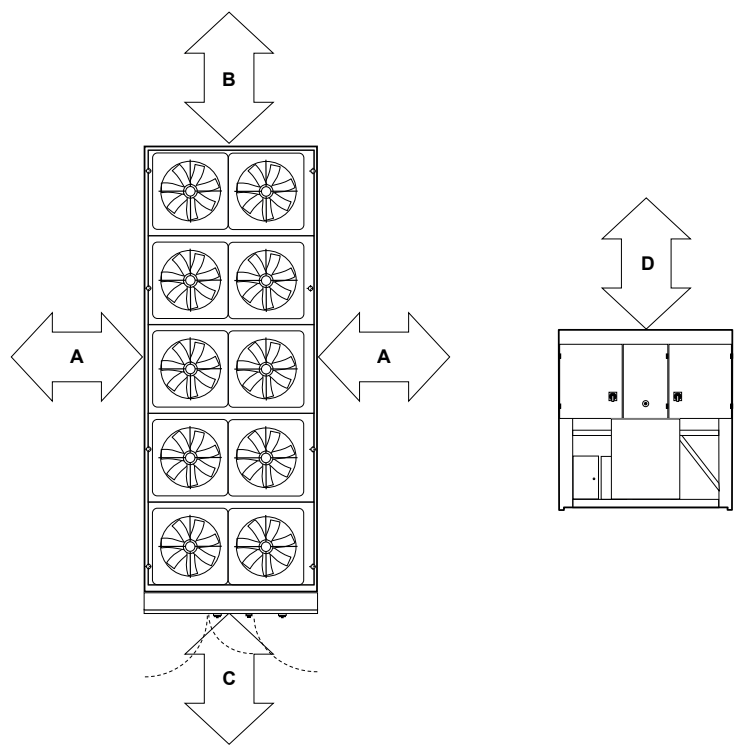
The installation position should be selected with the following points in mind:

- 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

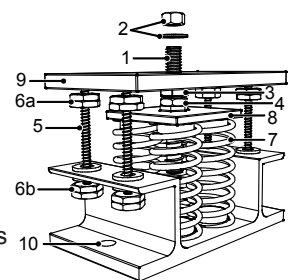
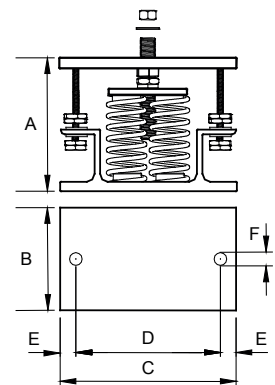
Components

- | | | | |
|----|------------------------|----|----------------------|
| 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).



Installation

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 Data

Water System

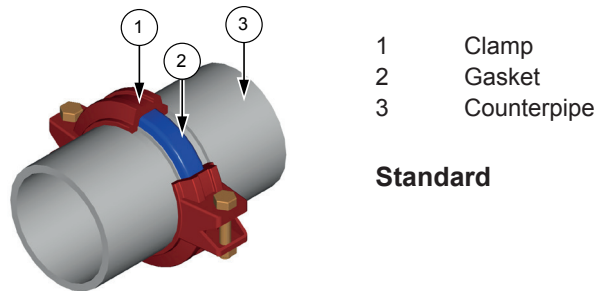
Chilled water pipe work and ancillary components must be installed in accordance with:

- 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



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

2

3

4

5

6
- Filter 20 Mesh (If not included within unit)

Pump

Filter 1/16"

Pressure Sensor

Flow Switch

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

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

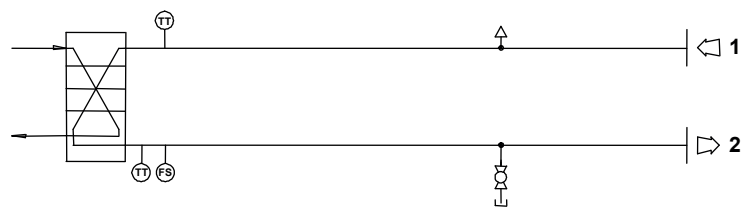
the chiller against low flow conditions.

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:

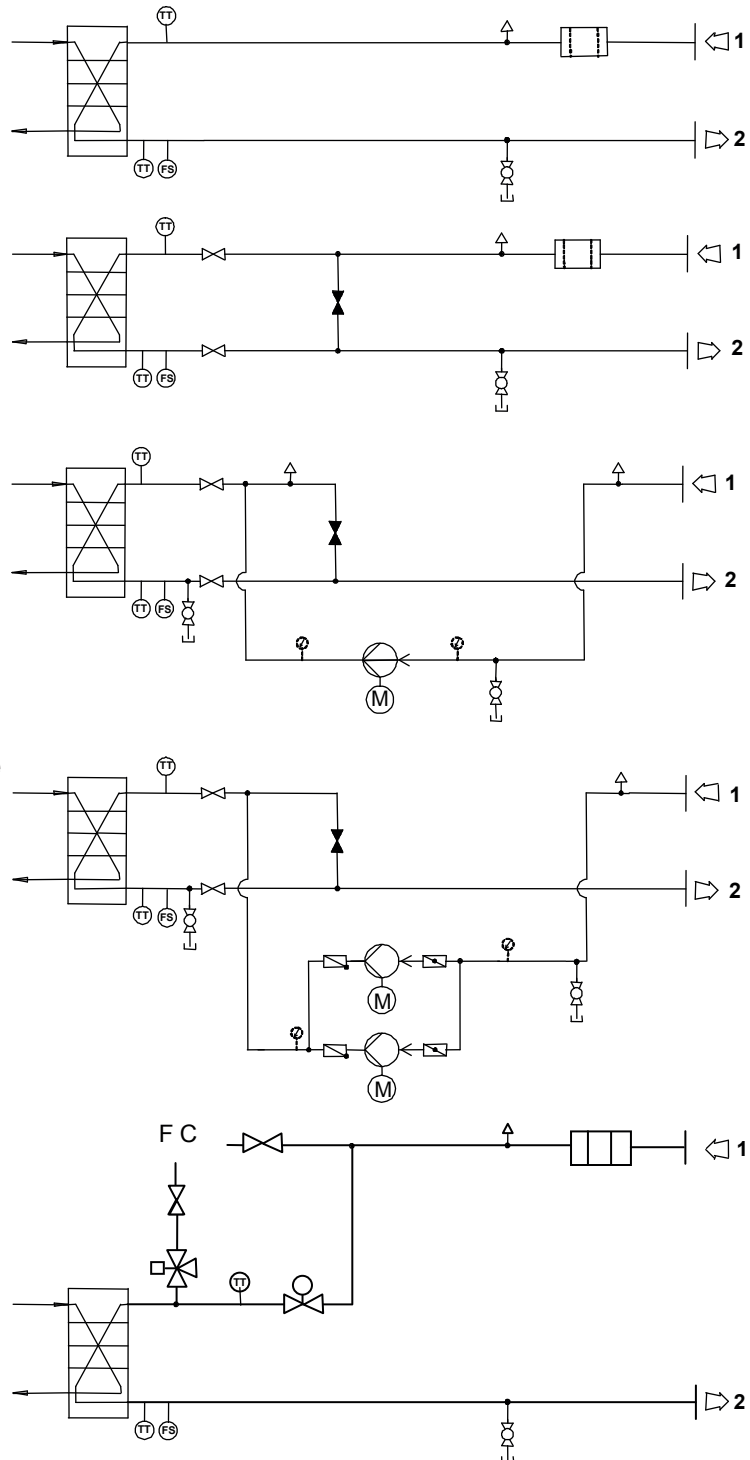
- 20 Mesh Water Filter (supplied loose)
- Flushing Bypass Circuit

- 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

Installation Data

Interconnecting Wiring

Installation

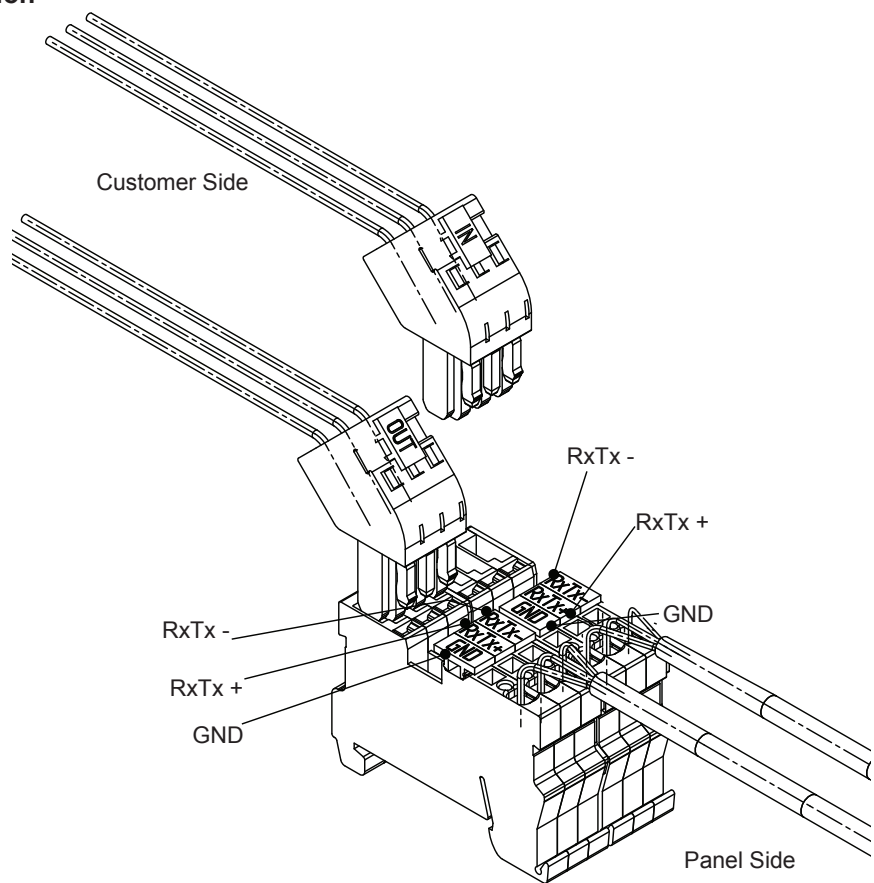
DCC22 / DCF22	L1	○	←		Mains incoming supply 400V/3PH/50Hz
	L2	○	←		
	L3	○	←		
	PE	○	←		
	L4	○	←		Separate Permanent Supply 230V/1PH/50Hz
	N1	○	←		
	PE	○	←		
	L4	○	→		External Trace Heating Connections 240V/500W max
	N1	○	→		
	502	○	→		Unit Remote On/Off 24VAC
	505	○	←		
	502	○	→	(1)	Evaporator Water 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.
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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 _i (°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		7.01	6.60	6.00
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	116541	149421	203583
Rated Refrigerant Capacity P_A	1,3,5	kW	110.3	133	164.8
Rated Power Input D_A		kW	32.9	40.5	53.9
Rated $EER_{DC,A}$			3.35	3.28	3.06
Declared Refrigerant Capacity P_B	1,3,5	kW	122.6 / 64.8	148.0 / 78.3	183.5 / 97.7
Declared Power Input D_B		kW	26.8 / 13.1	33.2 / 16.1	45.0 / 21.6
Declared $EER_{DC,B}$			4.57 / 4.94	4.45 / 4.86	4.08 / 4.51
Declared Refrigerant Capacity P_C	1,3,5	kW	132.9 / 69.6	160.4 / 84.1	199.1 / 104.9
Declared Power Input D_C		kW	21.2 / 10.7	26.9 / 13.5	37.1 / 18.3
Declared $EER_{DC,C}$			6.26 / 6.51	5.96 / 6.25	5.37 / 5.74
Declared Refrigerant Capacity P_D	1,3,5	kW	142.0 / 74.3	171.6 / 89.7	212.7 / 111.7
Declared Power Input D_D		kW	15.6 / 8.0	21.0 / 10.7	29.6 / 14.7
Declared $EER_{DC,D}$			9.13 / 9.27	8.18 / 8.39	7.19 / 7.60

SSCEE	2,3,5	%	185.9	181.6	169.0
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		110.8	133.6	165.5
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	110.3	133	164.8
Declared EER_d 35°C			3.35	3.28	3.06
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	122.6 / 64.8	148.0 / 78.3	183.5 / 97.7
Declared EER_d 30°C			4.57 / 4.94	4.45 / 4.86	4.08 / 4.51
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	132.9 / 69.6	160.4 / 84.1	199.1 / 104.9
Declared EER_d 25°C			6.26 / 6.51	5.96 / 6.25	5.37 / 5.74
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	142.0 / 74.3	171.6 / 89.7	212.7 / 111.7
Declared EER_d 20°C			9.13 / 9.27	8.18 / 8.39	7.19 / 7.60
Sound Power Level LWA		dB(A)	88	89	96
Air flow rate		m³/h	87137	87137	87137
Off mode P_{OFF}		kW	0.088	0.088	0.088
Thermostat-off mode P_{TO}		kW	0.562	0.631	0.811
Standby Mode P_{SB}		kW	0.116	0.116	0.116
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		6.09	5.43	6.14
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	235369	322993	297112
Rated Refrigerant Capacity P_A	1,3,5	kW	193.5	236.7	246.2
Rated Power Input D_A		kW	64.7	87.3	82.1
Rated $EER_{DC,A}$			2.99	2.71	3
Declared Refrigerant Capacity P_B	1,3,5	kW	215.7 / 150.6	265.8 / 186.4	274.8 / 191.7
Declared Power Input D_B		kW	53.5 / 34.2	73.7 / 46.7	68.3 / 43.9
Declared $EER_{DC,B}$			4.03 / 4.41	3.61 / 4.00	4.02 / 4.37
Declared Refrigerant Capacity P_C	1,3,5	kW	233.8 / 162.3	287.9 / 201.1	298.6 / 207.1
Declared Power Input D_C		kW	44.2 / 28.4	61.9 / 39.5	56.5 / 36.4
Declared $EER_{DC,C}$			5.29 / 5.71	4.65 / 5.09	5.29 / 5.69
Declared Refrigerant Capacity P_D	1,3,5	kW	172.9 / 91.2	214.0 / 113.6	221.4 / 116.5
Declared Power Input D_D		kW	23.1 / 10.7	32.8 / 14.8	28.9 / 13.4
Declared $EER_{DC,D}$			7.49 / 8.49	6.52 / 7.67	7.65 / 8.72

SSCEE	2,3,5	%	183.5	169.3	182.2
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		194.2	237.5	247
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	193.5	236.7	246.2
Declared EER_d 35°C			2.99	2.71	3.00
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	215.7 / 150.6	265.8 / 186.4	274.8 / 191.7
Declared EER_d 30°C			4.03 / 4.41	3.61 / 4.00	4.02 / 4.37
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	233.8 / 162.3	287.9 / 201.1	298.6 / 207.1
Declared EER_d 25°C			5.29 / 5.71	4.65 / 5.09	5.29 / 5.69
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	172.9 / 91.2	214.0 / 113.6	221.4 / 116.5
Declared EER_d 20°C			7.49 / 8.49	6.52 / 7.67	7.65 / 8.72
Sound Power Level LWA		dB(A)	91	98	98
Air flow rate		m³/h	87137	87137	130705
Off mode P_{OFF}		kW	0.088	0.088	0.088
Thermostat-off mode P_{TO}		kW	0.809	1.007	1.128
Standby Mode P_{SB}		kW	0.116	0.116	0.126
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		6.92	6.94	6.41
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	119191	131831	154589
Rated Refrigerant Capacity P_A	1,3,5	kW	111.4	123.5	133.7
Rated Power Input D_A		kW	32.8	36.5	40.3
Rated $EER_{DC,A}$			3.4	3.38	3.32
Declared Refrigerant Capacity P_B	1,3,5	kW	123.8 / 61.6	137.4 / 62.8	148.7 / 74.1
Declared Power Input D_B		kW	26.7 / 13.6	29.8 / 13.6	33.0 / 16.8
Declared $EER_{DC,B}$			4.64 / 4.54	4.61 / 4.62	4.50 / 4.41
Declared Refrigerant Capacity P_C	1,3,5	kW	134.2 / 66.8	149.0 / 68.2	161.1 / 80.3
Declared Power Input D_C		kW	21.0 / 10.7	23.8 / 10.7	26.7 / 13.6
Declared $EER_{DC,C}$			6.39 / 6.22	6.26 / 6.35	6.03 / 5.88
Declared Refrigerant Capacity P_D	1,3,5	kW	143.4 / 71.5	159.4 / 72.9	172.3 / 85.8
Declared Power Input D_D		kW	15.2 / 7.9	17.9 / 7.8	20.8 / 10.7
Declared $EER_{DC,D}$			9.42 / 9.09	8.90 / 9.35	8.29 / 8.05

SSCEE	2,3,5	%	169.8	174.2	164.1
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		111.9	124	134.3
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	111.4	123.5	133.7
Declared EER_d 35°C			3.40	3.38	3.32
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	123.8 / 61.6	137.4 / 62.8	148.7 / 74.1
Declared EER_d 30°C			4.64 / 4.54	4.61 / 4.62	4.50 / 4.41
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	134.2 / 66.8	149.0 / 68.2	161.1 / 80.3
Declared EER_d 25°C			6.39 / 6.22	6.26 / 6.35	6.03 / 5.88
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	143.4 / 71.5	159.4 / 72.9	172.3 / 85.8
Declared EER_d 20°C			9.42 / 9.09	8.90 / 9.35	8.29 / 8.05
Sound Power Level LWA		dB(A)	88	89	89
Air flow rate		m³/h	87137	87137	87137
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	0.537	0.547	0.632
Standby Mode P_{SB}		kW	0.126	0.126	0.126
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		6.27	6.26	6.04
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	177143	188606	225915
Rated Refrigerant Capacity P_A	1,3,5	kW	150	159.4	184.2
Rated Power Input D_A		kW	47.2	51.1	62.0
Rated $EER_{DC,A}$			3.18	3.12	2.97
Declared Refrigerant Capacity P_B	1,3,5	kW	167.1 / 75.1	177.8 / 136.2	205.2 / 151.9
Declared Power Input D_B		kW	39.1 / 16.9	42.0 / 31.0	51.1 / 35.1
Declared $EER_{DC,B}$			4.28 / 4.45	4.23 / 4.39	4.02 / 4.32
Declared Refrigerant Capacity P_C	1,3,5	kW	181.3 / 81.5	147.0 / 101.5	163.7 / 117.7
Declared Power Input D_C		kW	31.9 / 13.7	25.4 / 16.6	28.9 / 20.2
Declared $EER_{DC,C}$			5.68 / 5.94	5.78 / 6.10	5.66 / 5.82
Declared Refrigerant Capacity P_D	1,3,5	kW	193.7 / 87.1	156.2 / 107.9	174.0 / 124.9
Declared Power Input D_D		kW	25.2 / 10.7	20.3 / 13.3	23.2 / 16.3
Declared $EER_{DC,D}$			7.69 / 8.14	7.68 / 8.09	7.50 / 7.65

SSCEE	2,3,5	%	166.0	179.9	177.8
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		150.6	160.1	184.9
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	150	159.4	184.2
Declared EER_d 35°C			3.18	3.12	2.97
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	167.1 / 75.1	177.8 / 136.2	205.2 / 151.9
Declared EER_d 30°C			4.28 / 4.45	4.23 / 4.39	4.02 / 4.32
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	181.3 / 81.5	147.0 / 101.5	163.7 / 117.7
Declared EER_d 25°C			5.68 / 5.94	5.78 / 6.10	5.66 / 5.82
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	193.7 / 87.1	156.2 / 107.9	174.0 / 124.9
Declared EER_d 20°C			7.69 / 8.14	7.68 / 8.09	7.50 / 7.65
Sound Power Level LWA		dB(A)	94	86	90
Air flow rate		m³/h	87137	87137	87137
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	0.684	0.770	0.834
Standby Mode P_{SB}		kW	0.126	0.126	0.126
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		5.90	6.70	5.74
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	239427	217019	274156
Rated Refrigerant Capacity P_A	1,3,5	kW	190.5	196.3	212.5
Rated Power Input D_A		kW	63.7	59.8	73.3
Rated $EER_{DC,A}$			2.99	3.28	2.9
Declared Refrigerant Capacity P_B	1,3,5	kW	212.4 / 157.3	218.6 / 161.2	236.6 / 181.5
Declared Power Input D_B		kW	52.8 / 36.8	49.2 / 34.7	60.6 / 44.5
Declared $EER_{DC,B}$			4.02 / 4.27	4.44 / 4.65	3.91 / 4.08
Declared Refrigerant Capacity P_C	1,3,5	kW	169.9 / 101.8	174.5 / 104.7	195.8 / 135.4
Declared Power Input D_C		kW	30.5 / 19.0	28.2 / 17.5	36.9 / 24.0
Declared $EER_{DC,C}$			5.56 / 5.35	6.19 / 5.98	5.30 / 5.65
Declared Refrigerant Capacity P_D	1,3,5	kW	181.1 / 108.9	186.6 / 112.4	208.2 / 143.5
Declared Power Input D_D		kW	24.5 / 15.2	21.4 / 13.2	29.9 / 19.5
Declared $EER_{DC,D}$			7.40 / 7.17	8.74 / 8.51	6.97 / 7.37
SSCEE	2,3,5	%	154.7	169.7	168.7
SSCEE Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		191.3	197	213.5
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	190.5	196.3	212.5
Declared EER_d 35°C			2.99	3.28	2.90
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	212.4 / 157.3	218.6 / 161.2	236.6 / 181.5
Declared EER_d 30°C			4.02 / 4.27	4.44 / 4.65	3.91 / 4.08
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	169.9 / 101.8	174.5 / 104.7	195.8 / 135.4
Declared EER_d 25°C			5.56 / 5.35	6.19 / 5.98	5.30 / 5.65
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	181.1 / 108.9	186.6 / 112.4	208.2 / 143.5
Declared EER_d 20°C			7.40 / 7.17	8.74 / 8.51	6.97 / 7.37
Sound Power Level LWA		dB(A)	94	94	92
Air flow rate		m³/h	87137	130705	87137
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	0.854	0.934	1.053
Standby Mode P_{SB}		kW	0.126	0.136	0.126
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		6.53	5.67	6.44
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	248722	303582	277552
Rated Refrigerant Capacity P _A	1,3,5	kW	219.2	232.2	241.2
Rated Power Input D _A		kW	68.5	81.5	76.3
Rated EER _{DC,A}			3.2	2.85	3.16
Declared Refrigerant Capacity P _B	1,3,5	kW	244.0 / 186.6	260.3 / 195.3	268.8 / 201.0
Declared Power Input D _B		kW	56.1 / 41.6	67.9 / 47.7	62.7 / 44.5
Declared EER _{DC,B}			4.35 / 4.49	3.83 / 4.10	4.29 / 4.52
Declared Refrigerant Capacity P _C	1,3,5	kW	201.4 / 138.5	210.7 / 149.0	216.9 / 152.8
Declared Power Input D _C		kW	33.7 / 22.3	39.8 / 26.8	36.3 / 24.9
Declared EER _{DC,C}			5.97 / 6.21	5.30 / 5.57	5.97 / 6.14
Declared Refrigerant Capacity P _D	1,3,5	kW	214.8 / 147.5	223.9 / 157.9	231.4 / 162.6
Declared Power Input D _D		kW	25.9 / 17.3	32.6 / 22.2	28.4 / 19.8
Declared EER _{DC,D}			8.29 / 8.55	6.88 / 7.13	8.15 / 8.23

SSCEE	2,3,5	%	182.8	172.0	187.2
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity P _{rated,c}	2,4,5		220.1	232.9	241.9
Declared Cooling Capacity 35°C P _{dc}	2,3,5	kW	219.2	232.2	241.2
Declared EER _d 35°C			3.20	2.85	3.16
Declared Cooling Capacity 30°C P _{dc}	2,3,5	kW	244.0 / 186.6	260.3 / 195.3	268.8 / 201.0
Declared EER _d 30°C			4.35 / 4.49	3.83 / 4.10	4.29 / 4.52
Declared Cooling Capacity 25°C P _{dc}	2,3,5	kW	201.4 / 138.5	210.7 / 149.0	216.9 / 152.8
Declared EER _d 25°C			5.97 / 6.21	5.30 / 5.57	5.97 / 6.14
Declared Cooling Capacity 20°C P _{dc}	2,3,5	kW	214.8 / 147.5	223.9 / 157.9	231.4 / 162.6
Declared EER _d 20°C			8.29 / 8.55	6.88 / 7.13	8.15 / 8.23
Sound Power Level LWA		dB(A)	92	92	92
Air flow rate		m³/h	130705	87137	130705
Off mode P _{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P _{TO}		kW	1.190	0.770	0.835
Standby Mode P _{SB}		kW	0.136	0.126	0.136
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		5.40	6.11	5.87
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	342271	316030	368708
Rated Refrigerant Capacity P_A	1,3,5	kW	249.4	260.7	292.3
Rated Power Input D_A		kW	90.0	84.4	98.4
Rated $EER_{DC,A}$			2.77	3.09	2.97
Declared Refrigerant Capacity P_B	1,3,5	kW	281.1 / 216.1	290.4 / 222.6	325.7 / 243.0
Declared Power Input D_B		kW	75.4 / 55.2	69.6 / 51.3	82.0 / 57.1
Declared $EER_{DC,B}$			3.73 / 3.91	4.18 / 4.34	3.97 / 4.26
Declared Refrigerant Capacity P_C	1,3,5	kW	232.7 / 161.6	240.3 / 165.8	262.2 / 186.4
Declared Power Input D_C		kW	46.4 / 29.9	42.5 / 27.8	47.6 / 32.9
Declared $EER_{DC,C}$			5.01 / 5.40	5.66 / 5.96	5.51 / 5.67
Declared Refrigerant Capacity P_D	1,3,5	kW	247.2 / 171.1	256.1 / 176.5	279.4 / 198.1
Declared Power Input D_D		kW	38.8 / 25.2	34.2 / 22.7	38.6 / 27.0
Declared $EER_{DC,D}$			6.37 / 6.79	7.48 / 7.79	7.23 / 7.33

SSCEE	2,3,5	%	164.6	179.7	177.1
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		250.2	261.6	293.3
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	249.4	260.7	292.3
Declared EER_d 35°C			2.77	3.09	2.97
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	281.1 / 216.1	290.4 / 222.6	325.7 / 243.0
Declared EER_d 30°C			3.73 / 3.91	4.18 / 4.34	3.97 / 4.26
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	232.7 / 161.6	240.3 / 165.8	262.2 / 186.4
Declared EER_d 25°C			5.01 / 5.40	5.66 / 5.96	5.51 / 5.67
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	247.2 / 171.1	256.1 / 176.5	279.4 / 198.1
Declared EER_d 20°C			6.37 / 6.79	7.48 / 7.79	7.23 / 7.33
Sound Power Level LWA		dB(A)	93	92	97
Air flow rate		m³/h	87137	130705	130705
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	0.882	0.952	1.082
Standby Mode P_{SB}		kW	0.126	0.136	0.136
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		6.39	5.47	5.97
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	346466	435078	407541
Rated Refrigerant Capacity P_A	1,3,5	kW	298.9	321.4	328.6
Rated Power Input D_A		kW	94.0	112.8	107.4
Rated $EER_{DC,A}$			3.18	2.85	3.06
Declared Refrigerant Capacity P_B	1,3,5	kW	332.9 / 247.5	357.5 / 274.8	365.8 / 280.4
Declared Power Input D_B		kW	77.9 / 54.6	94.4 / 69.5	89.6 / 66.3
Declared $EER_{DC,B}$			4.27 / 4.53	3.79 / 3.95	4.08 / 4.23
Declared Refrigerant Capacity P_C	1,3,5	kW	267.5 / 189.5	296.5 / 205.6	303.1 / 209.3
Declared Power Input D_C		kW	44.9 / 31.4	58.5 / 38.1	55.1 / 36.3
Declared $EER_{DC,C}$			5.96 / 6.04	5.07 / 5.40	5.50 / 5.77
Declared Refrigerant Capacity P_D	1,3,5	kW	285.6 / 202.1	315.7 / 218.4	323.4 / 223.1
Declared Power Input D_D		kW	35.4 / 25.1	48.2 / 31.5	44.0 / 29.2
Declared $EER_{DC,D}$			8.08 / 8.07	6.55 / 6.93	7.35 / 7.65

SSCEE	2,3,5	%	186.9	164.9	174.9
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		299.9	322.5	329.7
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	298.9	321.4	328.6
Declared EER_d 35°C			3.18	2.85	3.06
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	332.9 / 247.5	357.5 / 274.8	365.8 / 280.4
Declared EER_d 30°C			4.27 / 4.53	3.79 / 3.95	4.08 / 4.23
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	267.5 / 189.5	296.5 / 205.6	303.1 / 209.3
Declared EER_d 25°C			5.96 / 6.04	5.07 / 5.40	5.50 / 5.77
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	285.6 / 202.1	315.7 / 218.4	323.4 / 223.1
Declared EER_d 20°C			8.08 / 8.07	6.55 / 6.93	7.35 / 7.65
Sound Power Level LWA		dB(A)	97	99	99
Air flow rate		m³/h	174274	130705	174274
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	1.139	1.350	1.375
Standby Mode P_{SB}		kW	0.146	0.136	0.146
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		5.60	6.56	5.55
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	464529	414979	499046
Rated Refrigerant Capacity P_A	1,3,5	kW	351	367.6	374.1
Rated Power Input D_A		kW	124.0	114.5	135.5
Rated $EER_{DC,A}$			2.83	3.21	2.76
Declared Refrigerant Capacity P_B	1,3,5	kW	330.4 / 261.2	409.6 / 342.8	358.6 / 295.4
Declared Power Input D_B		kW	83.1 / 64.0	94.6 / 76.2	92.6 / 71.7
Declared $EER_{DC,B}$			3.98 / 4.08	4.33 / 4.50	3.87 / 4.12
Declared Refrigerant Capacity P_C	1,3,5	kW	357.3 / 282.5	371.5 / 292.9	387.2 / 318.1
Declared Power Input D_C		kW	69.6 / 53.5	62.4 / 48.2	77.6 / 60.4
Declared $EER_{DC,C}$			5.13 / 5.28	5.96 / 6.07	4.99 / 5.27
Declared Refrigerant Capacity P_D	1,3,5	kW	301.2 / 200.4	313.5 / 207.1	337.8 / 258.5
Declared Power Input D_D		kW	43.8 / 27.1	37.2 / 23.7	50.3 / 36.6
Declared $EER_{DC,D}$			6.87 / 7.40	8.42 / 8.72	6.72 / 7.06
SSCEE	2,3,5	%	168.6	186.7	176.4
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		352	368.7	375.3
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	351	367.6	374.1
Declared EER_d 35°C			2.83	3.21	2.76
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	330.4 / 261.2	409.6 / 342.8	358.6 / 295.4
Declared EER_d 30°C			3.98 / 4.08	4.33 / 4.50	3.87 / 4.12
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	357.3 / 282.5	371.5 / 292.9	387.2 / 318.1
Declared EER_d 25°C			5.13 / 5.28	5.96 / 6.07	4.99 / 5.27
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	301.2 / 200.4	313.5 / 207.1	337.8 / 258.5
Declared EER_d 20°C			6.87 / 7.40	8.42 / 8.72	6.72 / 7.06
Sound Power Level LWA		dB(A)	97	97	94
Air flow rate		m³/h	130705	217842	130705
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	1.296	1.381	1.507
Standby Mode P_{SB}		kW	0.136	0.156	0.136
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		6.48	5.75	6.15
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	451143	555937	530584
Rated Refrigerant Capacity P_A	1,3,5	kW	394.3	431.1	440.4
Rated Power Input D_A		kW	124.8	151.8	146.8
Rated $EER_{DC,A}$			3.16	2.84	3
Declared Refrigerant Capacity P_B	1,3,5	kW	372.5 / 305.7	404.0 / 337.5	491.3 / 410.7
Declared Power Input D_B		kW	84.4 / 66.1	100.1 / 80.7	121.8 / 96.3
Declared $EER_{DC,B}$			4.41 / 4.63	4.03 / 4.18	4.03 / 4.26
Declared Refrigerant Capacity P_C	1,3,5	kW	403.2 / 330.0	437.0 / 363.9	444.6 / 369.7
Declared Power Input D_C		kW	69.2 / 54.5	83.6 / 67.8	79.6 / 64.8
Declared $EER_{DC,C}$			5.83 / 6.06	5.23 / 5.37	5.59 / 5.70
Declared Refrigerant Capacity P_D	1,3,5	kW	352.0 / 268.3	387.5 / 288.0	394.7 / 292.6
Declared Power Input D_D		kW	43.2 / 31.8	55.8 / 37.8	52.1 / 35.5
Declared $EER_{DC,D}$			8.15 / 8.44	6.95 / 7.62	7.58 / 8.25

SSCEE	2,3,5	%	193.2	180.9	188.1
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		395.7	432.5	441.8
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	394.3	431.1	440.4
Declared EER_d 35°C			3.16	2.84	3.00
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	372.5 / 305.7	404.0 / 337.5	491.3 / 410.7
Declared EER_d 30°C			4.41 / 4.63	4.03 / 4.18	4.03 / 4.26
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	403.2 / 330.0	437.0 / 363.9	444.6 / 369.7
Declared EER_d 25°C			5.83 / 6.06	5.23 / 5.37	5.59 / 5.70
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	352.0 / 268.3	387.5 / 288.0	394.7 / 292.6
Declared EER_d 20°C			8.15 / 8.44	6.95 / 7.62	7.58 / 8.25
Sound Power Level LWA		dB(A)	94	99	99
Air flow rate		m³/h	217842	174274	217842
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	1.631	1.806	1.822
Standby Mode P_{SB}		kW	0.156	0.146	0.156
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		5.36	5.74	5.17
SEPR Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 1 (2018)
Annual Electricity Consumption		kWh/a	651027	622465	746782
Rated Refrigerant Capacity P_A	1,3,5	kW	470.5	482	521.5
Rated Power Input D_A		kW	174.3	168.5	202.9
Rated $EER_{DC,A}$			2.7	2.86	2.57
Declared Refrigerant Capacity P_B	1,3,5	kW	449.4 / 370.8	457.4 / 376.8	507.4 / 421.1
Declared Power Input D_B		kW	120.2 / 93.2	115.5 / 90.0	137.4 / 106.5
Declared $EER_{DC,B}$			3.74 / 3.98	3.96 / 4.19	3.69 / 3.95
Declared Refrigerant Capacity P_C	1,3,5	kW	486.1 / 399.9	495.2 / 406.6	453.9 / 348.1
Declared Power Input D_C		kW	101.4 / 79.0	96.5 / 75.4	91.1 / 67.3
Declared $EER_{DC,C}$			4.79 / 5.06	5.13 / 5.39	4.98 / 5.17
Declared Refrigerant Capacity P_D	1,3,5	kW	425.5 / 326.0	433.9 / 331.8	482.5 / 370.6
Declared Power Input D_D		kW	65.6 / 47.7	61.3 / 44.7	79.4 / 58.9
Declared $EER_{DC,D}$			6.48 / 6.84	7.08 / 7.43	6.08 / 6.30

SSCEE	2,3,5	%	170.0	177.2	166.8
SSCEE Tier			Tier 1 (2018)	Tier 1 (2018)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		472.2	483.8	523.7
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	470.5	482	521.5
Declared $EER_{d, 35°C}$			2.70	2.86	2.57
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	449.4 / 370.8	457.4 / 376.8	507.4 / 421.1
Declared $EER_{d, 30°C}$			3.74 / 3.98	3.96 / 4.19	3.69 / 3.95
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	486.1 / 399.9	495.2 / 406.6	453.9 / 348.1
Declared $EER_{d, 25°C}$			4.79 / 5.06	5.13 / 5.39	4.98 / 5.17
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	425.5 / 326.0	433.9 / 331.8	482.5 / 370.6
Declared $EER_{d, 20°C}$			6.48 / 6.84	7.08 / 7.43	6.08 / 6.30
Sound Power Level LWA		dB(A)	101	101	95
Air flow rate		m³/h	174274	217842	174274
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	2.223	2.260	2.861
Standby Mode P_{SB}		kW	0.146	0.156	0.146
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		7.02	6.61	6.01
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	116272	147465	197535
Rated Refrigerant Capacity P_A	1,3,5	kW	110.1	131.5	160.2
Rated Power Input D_A		kW	32.9	40.3	53.8
Rated $EER_{DC,A}$			3.35	3.26	2.98
Declared Refrigerant Capacity P_B	1,3,5	kW	122.6 / 64.8	147.4 / 78.3	180.6 / 97.7
Declared Power Input D_B		kW	26.8 / 13.1	33.1 / 16.1	44.8 / 21.6
Declared $EER_{DC,B}$			4.57 / 4.94	4.45 / 4.86	4.03 / 4.52
Declared Refrigerant Capacity P_C	1,3,5	kW	132.9 / 69.6	160.6 / 84.1	198.2 / 104.9
Declared Power Input D_C		kW	21.2 / 10.7	26.9 / 13.4	37.0 / 18.2
Declared $EER_{DC,C}$			6.26 / 6.51	5.96 / 6.26	5.36 / 5.76
Declared Refrigerant Capacity P_D	1,3,5	kW	142.0 / 74.3	171.6 / 89.7	212.7 / 111.8
Declared Power Input D_D		kW	15.6 / 8.0	21.0 / 10.7	29.5 / 14.7
Declared $EER_{DC,D}$			9.13 / 9.27	8.19 / 8.41	7.20 / 7.62

SSCEE	2,3,5	%	185.9	181.4	168.4
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		110.6	132	160.9
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	110.1	131.5	160.2
Declared EER_d 35°C			3.35	3.26	2.98
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	122.6 / 64.8	147.4 / 78.3	180.6 / 97.7
Declared EER_d 30°C			4.57 / 4.94	4.45 / 4.86	4.03 / 4.52
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	132.9 / 69.6	160.6 / 84.1	198.2 / 104.9
Declared EER_d 25°C			6.26 / 6.51	5.96 / 6.26	5.36 / 5.76
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	142.0 / 74.3	171.6 / 89.7	212.7 / 111.8
Declared EER_d 20°C			9.13 / 9.27	8.19 / 8.41	7.20 / 7.62
Sound Power Level LWA		dB(A)	81	82	89
Air flow rate		m³/h	55348	55348	55348
Off mode P_{OFF}		kW	0	0	0
Thermostat-off mode P_{TO}		kW	0.560	0.618	0.770
Standby Mode P_{SB}		kW	0.116	0.116	0.116
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		6.82	5.50	6.18
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	214280	295029	286665
Rated Refrigerant Capacity P_A	1,3,5	kW	197.1	219.1	239
Rated Power Input D_A		kW	60.5	89.4	81.6
Rated $EER_{DC,A}$			3.26	2.45	2.93
Declared Refrigerant Capacity P_B	1,3,5	kW	221.1 / 154.1	251.2 / 182.9	270.1 / 191.7
Declared Power Input D_B		kW	49.7 / 32.2	75.1 / 46.4	68.1 / 43.8
Declared $EER_{DC,B}$			4.45 / 4.78	3.34 / 3.94	3.96 / 4.38
Declared Refrigerant Capacity P_C	1,3,5	kW	241.0 / 166.6	199.9 / 106.7	207.2 / 108.8
Declared Power Input D_C		kW	40.4 / 26.4	39.3 / 18.3	36.4 / 17.3
Declared $EER_{DC,C}$			5.97 / 6.32	5.08 / 5.82	5.70 / 6.28
Declared Refrigerant Capacity P_D	1,3,5	kW	178.0 / 92.3	214.1 / 113.7	221.5 / 116.6
Declared Power Input D_D		kW	20.5 / 10.0	32.7 / 14.7	28.9 / 13.3
Declared $EER_{DC,D}$			8.68 / 9.20	6.55 / 7.73	7.67 / 8.76

SSCEE	2,3,5	%	196.2	168.0	182.7
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		197.8	219.8	239.8
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	197.1	219.1	239
Declared EER_d 35°C			3.26	2.45	2.93
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	221.1 / 154.1	251.2 / 182.9	270.1 / 191.7
Declared EER_d 30°C			4.45 / 4.78	3.34 / 3.94	3.96 / 4.38
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	241.0 / 166.6	199.9 / 106.7	207.2 / 108.8
Declared EER_d 25°C			5.97 / 6.32	5.08 / 5.82	5.70 / 6.28
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	178.0 / 92.3	214.1 / 113.7	221.5 / 116.6
Declared EER_d 20°C			8.68 / 9.20	6.55 / 7.73	7.67 / 8.76
Sound Power Level LWA			84	91	91
Air flow rate		m³/h	83021	55348	83021
Off mode P_{OFF}		kW	0.088	0.088	0.088
Thermostat-off mode P_{TO}		kW	0.838	0.875	1.026
Standby Mode P_{SB}		kW	0.126	0.116	0.126
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		6.92	6.95	6.41
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	118908	130756	152782
Rated Refrigerant Capacity P_A	1,3,5	kW	111.1	122.6	132.2
Rated Power Input D_A		kW	32.7	36.4	40.1
Rated EER _{DC,A}			3.4	3.37	3.3
Declared Refrigerant Capacity P_B	1,3,5	kW	123.8 / 61.6	137.1 / 62.8	148.1 / 73.8
Declared Power Input D_B		kW	26.7 / 13.6	29.8 / 13.6	32.9 / 16.7
Declared EER _{DC,B}			4.64 / 4.54	4.61 / 4.62	4.50 / 4.41
Declared Refrigerant Capacity P_C	1,3,5	kW	134.2 / 66.9	149.1 / 68.2	161.3 / 80.4
Declared Power Input D_C		kW	21.0 / 10.7	23.8 / 10.7	26.7 / 13.6
Declared EER _{DC,C}			6.39 / 6.22	6.26 / 6.36	6.03 / 5.89
Declared Refrigerant Capacity P_D	1,3,5	kW	143.4 / 71.5	159.4 / 73.0	172.3 / 85.9
Declared Power Input D_D		kW	15.2 / 7.9	17.9 / 7.8	20.8 / 10.7
Declared EER _{DC,D}			9.42 / 9.09	8.90 / 9.36	8.30 / 8.06

SSCEE	2,3,5	%	169.8	174.1	163.7
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		111.6	123.1	132.7
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	111.1	122.6	132.2
Declared EER _d 35°C			3.4	3.37	3.3
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	123.8 / 61.6	137.1 / 62.8	148.1 / 73.8
Declared EER _d 30°C			4.64 / 4.54	4.61 / 4.62	4.50 / 4.41
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	134.2 / 66.9	149.1 / 68.2	161.3 / 80.4
Declared EER _d 25°C			6.39 / 6.22	6.26 / 6.36	6.03 / 5.89
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	143.4 / 71.5	159.4 / 73.0	172.3 / 85.9
Declared EER _d 20°C			9.42 / 9.09	8.90 / 9.36	8.30 / 8.06
Sound Power Level LWA			81	82	82
Air flow rate		m³/h	55348	55348	55348
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	0.535	0.536	0.615
Standby Mode P_{SB}		kW	0.126	0.126	0.126
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		6.28	6.28	6.06
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	173321	182990	215258
Rated Refrigerant Capacity P_A	1,3,5	kW	146.9	155.1	176.1
Rated Power Input D_A		kW	46.9	51.0	62.2
Rated $EER_{DC,A}$			3.13	3.04	2.83
Declared Refrigerant Capacity P_B	1,3,5	kW	165.3 / 74.8	175.2 / 134.8	199.6 / 150.5
Declared Power Input D_B		kW	38.9 / 16.8	41.9 / 31.0	51.4 / 35.0
Declared $EER_{DC,B}$			4.24 / 4.45	4.18 / 4.35	3.89 / 4.30
Declared Refrigerant Capacity P_C	1,3,5	kW	180.8 / 81.5	146.7 / 101.6	163.5 / 117.8
Declared Power Input D_C		kW	31.9 / 13.7	25.4 / 16.6	28.9 / 20.1
Declared $EER_{DC,C}$			5.67 / 5.96	5.78 / 6.12	5.66 / 5.85
Declared Refrigerant Capacity P_D	1,3,5	kW	193.7 / 87.1	156.2 / 108.0	174.1 / 125.0
Declared Power Input D_D		kW	25.1 / 10.7	20.3 / 13.3	23.2 / 16.3
Declared $EER_{DC,D}$			7.70 / 8.15	7.70 / 8.11	7.52 / 7.68
SSCEE	2,3,5	%	165.1	179.6	177.7
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		147.5	155.8	176.7
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	146.9	155.1	176.1
Declared EER_d 35°C			3.13	3.04	2.83
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	165.3 / 74.8	175.2 / 134.8	199.6 / 150.5
Declared EER_d 30°C			4.24 / 4.45	4.18 / 4.35	3.89 / 4.30
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	180.8 / 81.5	146.7 / 101.6	163.5 / 117.8
Declared EER_d 25°C			5.67 / 5.96	5.78 / 6.12	5.66 / 5.85
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	193.7 / 87.1	156.2 / 108.0	174.1 / 125.0
Declared EER_d 20°C			7.70 / 8.15	7.70 / 8.11	7.52 / 7.68
Sound Power Level LWA			87	80	82
Air flow rate		m³/h	55348	55348	55348
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	0.656	0.730	0.742
Standby Mode P_{SB}		kW	0.126	0.126	0.126
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		5.87	6.70	5.74
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	229117	214407	257877
Rated Refrigerant Capacity P_A	1,3,5	kW	181.6	194	199.7
Rated Power Input D_A		kW	64.2	59.7	74.2
Rated $EER_{DC,A}$			2.83	3.25	2.69
Declared Refrigerant Capacity P_B	1,3,5	kW	206.2 / 155.6	217.6 / 161.2	227.6 / 177.0
Declared Power Input D_B		kW	53.2 / 36.7	49.1 / 34.7	61.3 / 44.9
Declared $EER_{DC,B}$			3.88 / 4.24	4.43 / 4.65	3.71 / 3.95
Declared Refrigerant Capacity P_C	1,3,5	kW	169.4 / 101.2	174.5 / 104.7	193.5 / 135.4
Declared Power Input D_C		kW	30.5 / 18.9	28.1 / 17.5	37.0 / 23.9
Declared $EER_{DC,C}$			5.56 / 5.35	6.20 / 5.99	5.22 / 5.68
Declared Refrigerant Capacity P_D	1,3,5	kW	181.2 / 109.0	186.6 / 112.4	207.7 / 143.6
Declared Power Input D_D		kW	24.4 / 15.1	21.3 / 13.2	29.8 / 19.4
Declared $EER_{DC,D}$			7.43 / 7.21	8.75 / 8.52	6.97 / 7.42

SSCEE	2,3,5	%	151.3	169.6	167.8
SSCEE Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		182.3	194.7	200.6
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	181.6	194	199.7
Declared EER_d 35°C			2.83	3.25	2.69
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	206.2 / 155.6	217.6 / 161.2	227.6 / 177.0
Declared EER_d 30°C			3.88 / 4.24	4.43 / 4.65	3.71 / 3.95
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	169.4 / 101.2	174.5 / 104.7	193.5 / 135.4
Declared EER_d 25°C			5.56 / 5.35	6.20 / 5.99	5.22 / 5.68
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	181.2 / 109.0	186.6 / 112.4	207.7 / 143.6
Declared EER_d 20°C			7.43 / 7.21	8.75 / 8.52	6.97 / 7.42
Sound Power Level LWA			87	87	84
Air flow rate		m³/h	55348	83021	55348
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	0.779	0.895	0.934
Standby Mode P_{SB}		kW	0.126	0.136	0.126
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		6.54	6.45	6.99
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	243642	269551	258756
Rated Refrigerant Capacity P_A	1,3,5	kW	215.1	234.7	244.2
Rated Power Input D_A		kW	68.1	76.2	72.9
Rated $EER_{DC,A}$			3.16	3.08	3.35
Declared Refrigerant Capacity P_B	1,3,5	kW	241.8 / 185.5	264.7 / 199.8	273.3 / 204.2
Declared Power Input D_B		kW	55.9 / 41.5	62.6 / 44.3	59.7 / 42.6
Declared $EER_{DC,B}$			4.32 / 4.47	4.23 / 4.51	4.58 / 4.79
Declared Refrigerant Capacity P_C	1,3,5	kW	201.5 / 138.6	217.0 / 152.9	220.8 / 155.1
Declared Power Input D_C		kW	33.7 / 22.3	36.3 / 24.8	34.3 / 23.8
Declared $EER_{DC,C}$			5.98 / 6.22	5.98 / 6.15	6.43 / 6.52
Declared Refrigerant Capacity P_D	1,3,5	kW	214.8 / 147.6	231.4 / 162.7	235.9 / 165.4
Declared Power Input D_D		kW	25.9 / 17.2	28.4 / 19.7	25.8 / 18.3
Declared $EER_{DC,D}$			8.30 / 8.56	8.16 / 8.25	9.15 / 9.04
SSCEE	2,3,5	%	182.9	187.1	196.9
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		216	235.4	245
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	215.1	234.7	244.2
Declared EER_d 35°C			3.16	3.08	3.35
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	241.8 / 185.5	264.7 / 199.8	273.3 / 204.2
Declared EER_d 30°C			4.32 / 4.47	4.23 / 4.51	4.58 / 4.79
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	201.5 / 138.6	217.0 / 152.9	220.8 / 155.1
Declared EER_d 25°C			5.98 / 6.22	5.98 / 6.15	6.43 / 6.52
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	214.8 / 147.6	231.4 / 162.7	235.9 / 165.4
Declared EER_d 20°C			8.30 / 8.56	8.16 / 8.25	9.15 / 9.04
Sound Power Level LWA			84	84	85
Air flow rate		m³/h	83021	83021	110695
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	1.101	0.793	0.852
Standby Mode P_{SB}		kW	0.136	0.136	0.146
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		6.12	6.63	5.88
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	304862	294102	350834
Rated Refrigerant Capacity P_A	1,3,5	kW	251.9	263.1	278.4
Rated Power Input D_A		kW	84.2	80.2	99.1
Rated $EER_{DC,A}$			2.99	3.28	2.81
Declared Refrigerant Capacity P_B	1,3,5	kW	284.7 / 219.7	295.0 / 226.0	315.8 / 240.0
Declared Power Input D_B		kW	69.5 / 51.2	66.0 / 49.0	82.4 / 57.0
Declared $EER_{DC,B}$			4.10 / 4.29	4.47 / 4.61	3.83 / 4.21
Declared Refrigerant Capacity P_C	1,3,5	kW	239.4 / 166.0	244.9 / 168.5	261.2 / 186.5
Declared Power Input D_C		kW	42.4 / 27.8	40.1 / 26.6	47.4 / 32.8
Declared $EER_{DC,C}$			5.65 / 5.97	6.11 / 6.33	5.51 / 5.69
Declared Refrigerant Capacity P_D	1,3,5	kW	256.2 / 176.5	261.5 / 179.7	279.5 / 198.2
Declared Power Input D_D		kW	34.2 / 22.6	31.4 / 21.1	38.6 / 26.9
Declared $EER_{DC,D}$			7.49 / 7.81	8.33 / 8.51	7.25 / 7.36

SSCEE	2,3,5	%	179.2	189.2	176.7
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		252.7	264	279.2
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	251.9	263.1	278.4
Declared EER_d 35°C			2.99	3.28	2.81
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	284.7 / 219.7	295.0 / 226.0	315.8 / 240.0
Declared EER_d 30°C			4.10 / 4.29	4.47 / 4.61	3.83 / 4.21
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	239.4 / 166.0	244.9 / 168.5	261.2 / 186.5
Declared EER_d 25°C			5.65 / 5.97	6.11 / 6.33	5.51 / 5.69
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	256.2 / 176.5	261.5 / 179.7	279.5 / 198.2
Declared EER_d 20°C			7.49 / 7.81	8.33 / 8.51	7.25 / 7.36
Sound Power Level LWA			85	85	90
Air flow rate		m³/h	83021	110695	83021
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	0.908	0.968	0.966
Standby Mode P_{SB}		kW	0.136	0.146	0.136
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		6.40	5.47	5.99
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	339046	409395	395525
Rated Refrigerant Capacity P_A	1,3,5	kW	292.7	302.3	319.5
Rated Power Input D_A		kW	93.8	113.6	107.2
Rated $EER_{DC,A}$			3.12	2.66	2.98
Declared Refrigerant Capacity P_B	1,3,5	kW	329.2 / 246.8	343.6 / 267.9	359.9 / 277.5
Declared Power Input D_B		kW	77.7 / 54.5	95.3 / 69.9	89.3 / 66.1
Declared $EER_{DC,B}$			4.24 / 4.53	3.61 / 3.83	4.03 / 4.20
Declared Refrigerant Capacity P_C	1,3,5	kW	267.6 / 189.7	292.9 / 205.9	302.3 / 209.5
Declared Power Input D_C		kW	44.9 / 31.4	58.6 / 37.9	55.0 / 36.2
Declared $EER_{DC,C}$			5.96 / 6.05	5.00 / 5.43	5.50 / 5.79
Declared Refrigerant Capacity P_D	1,3,5	kW	285.5 / 202.1	314.8 / 218.6	323.5 / 223.2
Declared Power Input D_D		kW	35.3 / 25.0	48.1 / 31.4	44.0 / 29.1
Declared $EER_{DC,D}$			8.09 / 8.08	6.54 / 6.97	7.36 / 7.67

SSCEE	2,3,5	%	186.8	164.1	174.6
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		293.7	303.2	320.7
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	292.7	302.3	319.5
Declared EER_d 35°C			3.12	2.66	2.98
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	329.2 / 246.8	343.6 / 267.9	359.9 / 277.5
Declared EER_d 30°C			4.24 / 4.53	3.61 / 3.83	4.03 / 4.20
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	267.6 / 189.7	292.9 / 205.9	302.3 / 209.5
Declared EER_d 25°C			5.96 / 6.05	5.00 / 5.43	5.50 / 5.79
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	285.5 / 202.1	314.8 / 218.6	323.5 / 223.2
Declared EER_d 20°C			8.09 / 8.08	6.54 / 6.97	7.36 / 7.67
Sound Power Level LWA			90	92	92
Air flow rate		m³/h	110695	83021	110695
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	1.079	1.169	1.324
Standby Mode P_{SB}		kW	0.146	0.136	0.146
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		6.16	6.30	6.11
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	418313	423636	447847
Rated Refrigerant Capacity P _A	1,3,5	kW	347.5	360.1	369.4
Rated Power Input D _A		kW	118.6	114.0	130.1
Rated EER _{DC,A}			2.93	3.16	2.84
Declared Refrigerant Capacity P _B	1,3,5	kW	333.8 / 263.4	338.1 / 264.6	359.7 / 300.1
Declared Power Input D _B		kW	78.7 / 60.8	76.9 / 60.3	87.7 / 67.9
Declared EER _{DC,B}			4.24 / 4.33	4.40 / 4.39	4.10 / 4.42
Declared Refrigerant Capacity P _C	1,3,5	kW	364.7 / 287.7	368.8 / 289.0	325.3 / 248.3
Declared Power Input D _C		kW	65.2 / 50.2	63.1 / 49.6	56.7 / 41.8
Declared EER _{DC,C}			5.60 / 5.73	5.84 / 5.82	5.74 / 5.94
Declared Refrigerant Capacity P _D	1,3,5	kW	308.6 / 204.5	309.6 / 205.5	346.4 / 264.5
Declared Power Input D _D		kW	39.9 / 25.0	39.2 / 24.4	46.0 / 33.6
Declared EER _{DC,D}			7.74 / 8.18	7.89 / 8.43	7.53 / 7.86

SSCEE	2,3,5	%	177.9	180.8	186.6
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity P _{rated,c}	2,4,5		348.5	361.2	370.6
Declared Cooling Capacity 35°C P _{dc}	2,3,5	kW	347.5	360.1	369.4
Declared EER _d 35°C			2.93	3.16	2.84
Declared Cooling Capacity 30°C P _{dc}	2,3,5	kW	333.8 / 263.4	338.1 / 264.6	359.7 / 300.1
Declared EER _d 30°C			4.24 / 4.33	4.40 / 4.39	4.10 / 4.42
Declared Cooling Capacity 25°C P _{dc}	2,3,5	kW	364.7 / 287.7	368.8 / 289.0	325.3 / 248.3
Declared EER _d 25°C			5.60 / 5.73	5.84 / 5.82	5.74 / 5.94
Declared Cooling Capacity 20°C P _{dc}	2,3,5	kW	308.6 / 204.5	309.6 / 205.5	346.4 / 264.5
Declared EER _d 20°C			7.74 / 8.18	7.89 / 8.43	7.53 / 7.86
Sound Power Level LWA			90	90	87
Air flow rate		m ³ /h	110695	138369	110695
Off mode P _{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P _{TO}		kW	1.271	1.377	1.469
Standby Mode P _{SB}		kW	0.146	0.156	0.146
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		6.80	5.82	6.51
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	429799	515148	497593
Rated Refrigerant Capacity P _A	1,3,5	kW	394.6	404.4	436.9
Rated Power Input D _A		kW	120.7	154.4	141.9
Rated EER _{DC,A}			3.27	2.62	3.08
Declared Refrigerant Capacity P _B	1,3,5	kW	375.7 / 308.6	394.0 / 333.2	414.7 / 346.3
Declared Power Input D _B		kW	81.9 / 64.4	100.2 / 80.3	93.4 / 75.9
Declared EER _{DC,B}			4.59 / 4.79	3.93 / 4.15	4.44 / 4.56
Declared Refrigerant Capacity P _C	1,3,5	kW	408.0 / 333.5	362.9 / 270.4	450.5 / 374.3
Declared Power Input D _C		kW	66.7 / 52.7	67.5 / 46.6	76.7 / 62.6
Declared EER _{DC,C}			6.12 / 6.33	5.37 / 5.80	5.87 / 5.98
Declared Refrigerant Capacity P _D	1,3,5	kW	356.3 / 270.5	387.7 / 288.1	400.1 / 296.0
Declared Power Input D _D		kW	41.0 / 30.5	55.6 / 37.6	49.3 / 33.7
Declared EER _{DC,D}			8.69 / 8.87	6.98 / 7.66	8.12 / 8.78

SSCEE	2,3,5	%	198.4	181.2	193.7
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity P _{rated,c}	2,4,5		396	405.6	438.4
Declared Cooling Capacity 35°C P _{dc}	2,3,5	kW	394.6	404.4	436.9
Declared EER _d 35°C			3.27	2.62	3.08
Declared Cooling Capacity 30°C P _{dc}	2,3,5	kW	375.7 / 308.6	394.0 / 333.2	414.7 / 346.3
Declared EER _d 30°C			4.59 / 4.79	3.93 / 4.15	4.44 / 4.56
Declared Cooling Capacity 25°C P _{dc}	2,3,5	kW	408.0 / 333.5	362.9 / 270.4	450.5 / 374.3
Declared EER _d 25°C			6.12 / 6.33	5.37 / 5.80	5.87 / 5.98
Declared Cooling Capacity 20°C P _{dc}	2,3,5	kW	356.3 / 270.5	387.7 / 288.1	400.1 / 296.0
Declared EER _d 20°C			8.69 / 8.87	6.98 / 7.66	8.12 / 8.78
Sound Power Level LWA			87	92	92
Air flow rate		m ³ /h	166043	110695	166043
Off mode P _{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P _{TO}		kW	1.725	1.558	1.872
Standby Mode P _{SB}		kW	0.166	0.146	0.166
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		5.78	6.09	5.50
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	588399	578001	680919
Rated Refrigerant Capacity P_A	1,3,5	kW	459.3	475	505.8
Rated Power Input D_A		kW	168.9	163.2	199.9
Rated $EER_{DC,A}$			2.72	2.91	2.53
Declared Refrigerant Capacity P_B	1,3,5	kW	448.2 / 374.6	458.9 / 381.3	502.2 / 423.0
Declared Power Input D_B		kW	115.5 / 89.5	111.9 / 87.6	132.7 / 101.8
Declared $EER_{DC,B}$			3.88 / 4.18	4.10 / 4.35	3.78 / 4.15
Declared Refrigerant Capacity P_C	1,3,5	kW	407.1 / 311.0	412.0 / 314.3	462.1 / 354.2
Declared Power Input D_C		kW	75.3 / 55.4	72.8 / 53.8	87.1 / 64.7
Declared $EER_{DC,C}$			5.41 / 5.61	5.66 / 5.85	5.30 / 5.48
Declared Refrigerant Capacity P_D	1,3,5	kW	433.9 / 331.9	440.3 / 336.2	492.9 / 376.5
Declared Power Input D_D		kW	61.1 / 44.5	57.9 / 42.3	75.7 / 56.5
Declared $EER_{DC,D}$			7.10 / 7.46	7.61 / 7.95	6.51 / 6.67
SSCEE	2,3,5	%	177.7	183.0	173.1
SSCEE Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		460.9	476.8	507.8
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	459.3	475	505.8
Declared EER_d 35°C			2.72	2.91	2.53
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	448.2 / 374.6	458.9 / 381.3	502.2 / 423.0
Declared EER_d 30°C			3.88 / 4.18	4.10 / 4.35	3.78 / 4.15
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	407.1 / 311.0	412.0 / 314.3	462.1 / 354.2
Declared EER_d 25°C			5.41 / 5.61	5.66 / 5.85	5.30 / 5.48
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	433.9 / 331.9	440.3 / 336.2	492.9 / 376.5
Declared EER_d 20°C			7.10 / 7.46	7.61 / 7.95	6.51 / 6.67
Sound Power Level LWA			94	94	89
Air flow rate		m³/h	138369	166043	138369
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	2.121	2.285	2.682
Standby Mode P_{SB}		kW	0.156	0.166	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		6.88	6.36	6.72
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	143540	192094	209894
Rated Refrigerant Capacity P_A	1,3,5	kW	133.2	164.8	190.4
Rated Power Input D_A		kW	41.9	56.1	67.3
Rated $EER_{DC,A}$			3.18	2.94	2.83
Declared Refrigerant Capacity P_B	1,3,5	kW	148.8 / 78.2	184.3 / 97.4	212.7 / 148.7
Declared Power Input D_B		kW	34.5 / 16.7	46.8 / 22.6	55.8 / 35.8
Declared $EER_{DC,B}$			4.31 / 4.67	3.93 / 4.31	3.81 / 4.16
Declared Refrigerant Capacity P_C	1,3,5	kW	162.0 / 84.2	200.8 / 104.7	231.5 / 160.8
Declared Power Input D_C		kW	28.1 / 14.0	38.8 / 19.2	46.3 / 29.9
Declared $EER_{DC,C}$			5.78 / 6.00	5.18 / 5.47	5.00 / 5.37
Declared Refrigerant Capacity P_D	1,3,5	kW	105.8 / 90.0	130.7 / 112.0	151.0 / 90.2
Declared Power Input D_D		kW	10.7 / 11.2	13.9 / 15.6	13.6 / 11.7
Declared $EER_{DC,D}$			9.86 / 8.01	9.37 / 7.20	11.08 / 7.71
SSCEE	2,3,5	%	173.1	159.3	168.3
SSCEE Tier			Tier 2 (2021)	Tier 1 (2018)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		134.1	166	191.7
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	133.2	164.8	190.4
Declared EER_d 35°C			3.18	2.94	2.83
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	148.8 / 78.2	184.3 / 97.4	212.7 / 148.7
Declared EER_d 30°C			4.31 / 4.67	3.93 / 4.31	3.81 / 4.16
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	162.0 / 84.2	200.8 / 104.7	231.5 / 160.8
Declared EER_d 25°C			5.78 / 6.00	5.18 / 5.47	5.00 / 5.37
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	105.8 / 90.0	130.7 / 112.0	151.0 / 90.2
Declared EER_d 20°C			9.90 / 8.01	9.44 / 7.20	11.25 / 7.71
Sound Power Level LWA		dB(A)	89	96	91
Air flow rate		m³/h	81059	81059	81059
Off mode P_{OFF}		kW	0.088	0.088	0.088
Thermostat-off mode P_{TO}		kW	0.880	1.266	1.460
Standby Mode P_{SB}		kW	0.116	0.116	0.116
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		6.90	6.66	6.34
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	260417	137481	156213
Rated Refrigerant Capacity P_A	1,3,5	kW	242.6	123.5	133.8
Rated Power Input D_A		kW	84.8	37.8	41.7
Rated EER _{DC,A}			2.86	3.27	3.21
Declared Refrigerant Capacity P_B	1,3,5	kW	271.5 / 189.5	137.9 / 62.8	149.3 / 74.2
Declared Power Input D_B		kW	70.9 / 45.6	30.9 / 14.2	34.3 / 17.6
Declared EER _{DC,B}			3.83 / 4.15	4.46 / 4.43	4.35 / 4.23
Declared Refrigerant Capacity P_C	1,3,5	kW	296.0 / 205.1	150.1 / 68.5	162.4 / 80.8
Declared Power Input D_C		kW	58.8 / 38.1	24.8 / 11.3	27.9 / 14.3
Declared EER _{DC,C}			5.03 / 5.39	6.05 / 6.06	5.83 / 5.63
Declared Refrigerant Capacity P_D	1,3,5	kW	192.5 / 115.5	98.1 / 73.4	106.2 / 86.6
Declared Power Input D_D		kW	16.2 / 14.4	11.2 / 12.5	12.7 / 15.5
Declared EER _{DC,D}			11.89 / 8.02	8.79 / 5.88	8.39 / 5.60

SSCEE	2,3,5	%	169.9	165.5	156.0
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		244.1	124.2	134.6
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	242.6	123.5	133.8
Declared EER _d 35°C			2.86	3.27	3.21
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	271.5 / 189.5	137.9 / 62.8	149.3 / 74.2
Declared EER _d 30°C			3.83 / 4.15	4.46 / 4.43	4.35 / 4.23
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	296.0 / 205.1	150.1 / 68.5	162.4 / 80.8
Declared EER _d 25°C			5.03 / 5.39	6.05 / 6.06	5.83 / 5.63
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	192.5 / 115.5	98.1 / 73.4	106.2 / 86.6
Declared EER _d 20°C			12.09 / 8.02	8.86 / 5.88	8.49 / 5.60
Sound Power Level LWA		dB(A)	98	89	89
Air flow rate		m³/h	121589	81059	81059
Off mode P_{OFF}		kW	0.088	0.098	0.098
Thermostat-off mode P_{TO}		kW	1.644	0.766	0.886
Standby Mode P_{SB}		kW	0.126	0.126	0.126
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	6.54	6.37
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	174469	180716	214710
Rated Refrigerant Capacity P _A	1,3,5	kW	150.1	159.5	184.6
Rated Power Input D _A		kW	48.9	53.2	64.8
Rated EER _{DC,A}			3.07	3	2.85
Declared Refrigerant Capacity P _B	1,3,5	kW	167.8 / 75.1	178.7 / 136.5	206.7 / 152.3
Declared Power Input D _B		kW	40.6 / 17.7	43.8 / 32.4	53.5 / 36.9
Declared EER _{DC,B}			4.13 / 4.24	4.08 / 4.21	3.86 / 4.13
Declared Refrigerant Capacity P _C	1,3,5	kW	182.8 / 81.9	147.9 / 101.5	164.8 / 117.8
Declared Power Input D _C		kW	33.3 / 14.5	26.6 / 17.5	30.5 / 21.4
Declared EER _{DC,C}			5.49 / 5.65	5.55 / 5.81	5.40 / 5.50
Declared Refrigerant Capacity P _D	1,3,5	kW	119.1 / 87.8	126.5 / 108.2	146.4 / 125.4
Declared Power Input D _D		kW	13.4 / 15.6	13.4 / 14.1	15.6 / 17.4
Declared EER _{DC,D}			8.89 / 5.63	9.46 / 7.66	9.37 / 7.19
SSCEE	2,3,5	%	156.8	168.1	163.1
SSCEE Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity P _{rated,c}	2,4,5		151	160.6	186
Declared Cooling Capacity 35°C P _{dc}	2,3,5	kW	150.1	159.5	184.6
Declared EER _d 35°C			3.07	3	2.85
Declared Cooling Capacity 30°C P _{dc}	2,3,5	kW	167.8 / 75.1	178.7 / 136.5	206.7 / 152.3
Declared EER _d 30°C			4.13 / 4.24	4.08 / 4.21	3.86 / 4.13
Declared Cooling Capacity 25°C P _{dc}	2,3,5	kW	182.8 / 81.9	147.9 / 101.5	164.8 / 117.8
Declared EER _d 25°C			5.49 / 5.65	5.55 / 5.81	5.40 / 5.50
Declared Cooling Capacity 20°C P _{dc}	2,3,5	kW	119.1 / 87.8	126.5 / 108.2	146.4 / 125.4
Declared EER _d 20°C			9.00 / 5.63	9.64 / 7.66	9.54 / 7.19
Sound Power Level LWA		dB(A)	94	86	90
Air flow rate		m³/h	81059	81059	81059
Off mode P _{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P _{TO}		kW	1.017	1.178	1.467
Standby Mode P _{SB}		kW	0.126	0.126	0.126
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		6.51	6.66	6.73
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	220544	240403	264046
Rated Refrigerant Capacity P_A	1,3,5	kW	193.8	216.2	240
Rated Power Input D_A		kW	61.7	70.9	79.2
Rated $EER_{DC,A}$			3.14	3.05	3.03
Declared Refrigerant Capacity P_B	1,3,5	kW	216.4 / 159.5	241.4 / 184.5	268.5 / 200.3
Declared Power Input D_B		kW	50.9 / 35.9	58.2 / 43.2	65.4 / 46.4
Declared $EER_{DC,B}$			4.25 / 4.45	4.14 / 4.27	4.11 / 4.32
Declared Refrigerant Capacity P_C	1,3,5	kW	173.1 / 103.7	199.9 / 137.3	217.1 / 152.3
Declared Power Input D_C		kW	29.3 / 18.3	35.2 / 23.4	38.1 / 26.2
Declared $EER_{DC,C}$			5.91 / 5.66	5.68 / 5.88	5.69 / 5.81
Declared Refrigerant Capacity P_D	1,3,5	kW	153.9 / 111.6	171.5 / 146.5	190.6 / 162.5
Declared Power Input D_D		kW	17.8 / 20.3	17.8 / 18.3	19.2 / 21.0
Declared $EER_{DC,D}$			8.63 / 5.51	9.66 / 8.02	9.94 / 7.73

SSCEE	2,3,5	%	159.9	170.2	172.9
SSCEE Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		194.9	217.6	241.4
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	193.8	216.2	240
Declared EER_d 35°C			3.14	3.05	3.03
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	216.4 / 159.5	241.4 / 184.5	268.5 / 200.3
Declared EER_d 30°C			4.25 / 4.45	4.14 / 4.27	4.11 / 4.32
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	173.1 / 103.7	199.9 / 137.3	217.1 / 152.3
Declared EER_d 25°C			5.91 / 5.66	5.68 / 5.88	5.69 / 5.81
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	153.9 / 111.6	171.5 / 146.5	190.6 / 162.5
Declared EER_d 20°C			8.72 / 5.51	9.84 / 8.02	10.12 / 7.73
Sound Power Level LWA		dB(A)	94	92	92
Air flow rate		m³/h	121589	121589	121589
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	1.265	1.632	1.524
Standby Mode P_{SB}		kW	0.136	0.136	0.136
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		6.38	6.72	6.28
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	301232	328878	386539
Rated Refrigerant Capacity P _A	1,3,5	kW	259.2	298.2	327.8
Rated Power Input D _A		kW	87.6	97.5	111.5
Rated EER _{DC,A}			2.96	3.06	2.94
Declared Refrigerant Capacity P _B	1,3,5	kW	290.2 / 222.0	333.2 / 247.2	366.3 / 280.3
Declared Power Input D _B		kW	72.7 / 53.7	81.0 / 56.8	93.3 / 69.1
Declared EER _{DC,B}			3.99 / 4.13	4.12 / 4.35	3.93 / 4.06
Declared Refrigerant Capacity P _C	1,3,5	kW	240.5 / 165.3	267.9 / 189.2	303.9 / 208.9
Declared Power Input D _C		kW	44.6 / 29.4	46.9 / 32.8	57.6 / 38.0
Declared EER _{DC,C}			5.39 / 5.62	5.71 / 5.76	5.28 / 5.49
Declared Refrigerant Capacity P _D	1,3,5	kW	205.7 / 176.2	236.9 / 202.2	260.2 / 223.2
Declared Power Input D _D		kW	22.2 / 24.1	24.1 / 26.4	28.3 / 30.8
Declared EER _{DC,D}			9.24 / 7.30	9.83 / 7.65	9.20 / 7.24

SSCEE	2,3,5	%	165.3	174.6	163.1
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity P _{rated,c}	2,4,5		260.9	299.8	329.9
Declared Cooling Capacity 35°C P _{dc}	2,3,5	kW	259.2	298.2	327.8
Declared EER _d 35°C			2.96	3.06	2.94
Declared Cooling Capacity 30°C P _{dc}	2,3,5	kW	290.2 / 222.0	333.2 / 247.2	366.3 / 280.3
Declared EER _d 30°C			3.99 / 4.13	4.12 / 4.35	3.93 / 4.06
Declared Cooling Capacity 25°C P _{dc}	2,3,5	kW	240.5 / 165.3	267.9 / 189.2	303.9 / 208.9
Declared EER _d 25°C			5.39 / 5.62	5.71 / 5.76	5.28 / 5.49
Declared Cooling Capacity 20°C P _{dc}	2,3,5	kW	205.7 / 176.2	236.9 / 202.2	260.2 / 223.2
Declared EER _d 20°C			9.42 / 7.30	10.00 / 7.65	9.37 / 7.24
Sound Power Level LWA		dB(A)	92	97	99
Air flow rate		m³/h	121589	162119	162119
Off mode P _{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P _{TO}		kW	1.824	1.799	2.240
Standby Mode P _{SB}		kW	0.136	0.146	0.146
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		6.69	6.66
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	404547	436384
Rated Refrigerant Capacity P_A	1,3,5	kW	365.5	392
Rated Power Input D_A		kW	118.7	129.8
Rated $EER_{DC,A}$			3.08	3.02
Declared Refrigerant Capacity P_B	1,3,5	kW	341.6 / 268.9	371.2 / 304.1
Declared Power Input D_B		kW	79.4 / 61.7	88.1 / 69.0
Declared $EER_{DC,B}$			4.30 / 4.36	4.21 / 4.41
Declared Refrigerant Capacity P_C	1,3,5	kW	371.3 / 292.3	403.2 / 329.3
Declared Power Input D_C		kW	65.2 / 50.7	72.6 / 57.2
Declared $EER_{DC,C}$			5.69 / 5.77	5.56 / 5.75
Declared Refrigerant Capacity P_D	1,3,5	kW	290.2 / 206.4	311.0 / 267.9
Declared Power Input D_D		kW	30.1 / 25.5	32.3 / 34.0
Declared $EER_{DC,D}$			9.63 / 8.11	9.62 / 7.89
SSCEE	2,3,5	%	172.8	176.8
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		367.7	394.5
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	365.5	392
Declared EER_d 35°C			3.08	3.02
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	341.6 / 268.9	371.2 / 304.1
Declared EER_d 30°C			4.30 / 4.36	4.21 / 4.41
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	371.3 / 292.3	403.2 / 329.3
Declared EER_d 25°C			5.69 / 5.77	5.56 / 5.75
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	290.2 / 206.4	311.0 / 267.9
Declared EER_d 20°C			9.81 / 8.11	9.81 / 7.89
Sound Power Level LWA		dB(A)	97	94
Air flow rate		m³/h	202649	202649
Off mode P_{OFF}		kW	0.098	0.098
Thermostat-off mode P_{TO}		kW	2.435	2.875
Standby Mode P_{SB}		kW	0.156	0.156
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		7.36	6.67	7.62
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	131833	176623	188378
Rated Refrigerant Capacity P_A	1,3,5	kW	131	158.9	193.8
Rated Power Input D_A		kW	41.6	55.8	62.3
Rated $EER_{DC,A}$			3.15	2.85	3.11
Declared Refrigerant Capacity P_B	1,3,5	kW	147.6 / 78.3	180.1 / 97.4	218.2 / 152.6
Declared Power Input D_B		kW	34.3 / 16.7	46.7 / 22.5	51.5 / 33.5
Declared $EER_{DC,B}$			4.30 / 4.68	3.86 / 4.33	4.24 / 4.56
Declared Refrigerant Capacity P_C	1,3,5	kW	162.0 / 84.3	198.7 / 104.9	239.2 / 165.1
Declared Power Input D_C		kW	28.0 / 14.0	38.6 / 19.1	42.0 / 27.5
Declared $EER_{DC,C}$			5.78 / 6.01	5.14 / 5.50	5.69 / 6.00
Declared Refrigerant Capacity P_D	1,3,5	kW	104.0 / 90.0	126.1 / 112.1	153.9 / 91.8
Declared Power Input D_D		kW	8.8 / 11.2	11.8 / 15.5	11.8 / 10.6
Declared $EER_{DC,D}$			11.88 / 8.03	10.70 / 7.25	13.01 / 8.62
SSCEE	2,3,5	%	173.0	159.0	183.1
SSCEE Tier			Tier 2 (2021)	Tier 1 (2018)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		131.8	160	195
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	131	158.9	193.8
Declared EER_d 35°C			3.15	2.85	3.11
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	147.6 / 78.3	180.1 / 97.4	218.2 / 152.6
Declared EER_d 30°C			4.30 / 4.68	3.86 / 4.33	4.24 / 4.56
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	162.0 / 84.3	198.7 / 104.9	239.2 / 165.1
Declared EER_d 25°C			5.78 / 6.01	5.14 / 5.50	5.69 / 6.00
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	104.0 / 90.0	126.1 / 112.1	153.9 / 91.8
Declared EER_d 20°C			12.06 / 8.03	10.87 / 7.25	13.20 / 8.62
Sound Power Level LWA		dB(A)	82	89	84
Air flow rate		m³/h	49803	49803	74704
Off mode P_{OFF}		kW	0.088	0.088	0.088
Thermostat-off mode P_{TO}		kW	0.853	1.165	1.327
Standby Mode P_{SB}		kW	0.116	0.116	0.126
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		6.97	7.75	7.21
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	248520	116681	135222
Rated Refrigerant Capacity P_A	1,3,5	kW	233.9	122.1	131.6
Rated Power Input D_A		kW	84.4	37.5	41.4
Rated $EER_{DC,A}$			2.77	3.26	3.18
Declared Refrigerant Capacity P_B	1,3,5	kW	265.3 / 189.4	137.3 / 62.8	148.1 / 73.7
Declared Power Input D_B		kW	70.7 / 45.4	30.8 / 14.2	34.1 / 17.5
Declared $EER_{DC,B}$			3.75 / 4.17	4.45 / 4.43	4.34 / 4.22
Declared Refrigerant Capacity P_C	1,3,5	kW	205.5 / 107.7	150.1 / 68.5	162.4 / 80.8
Declared Power Input D_C		kW	38.0 / 18.3	24.8 / 11.3	27.8 / 14.3
Declared $EER_{DC,C}$			5.41 / 5.88	6.06 / 6.07	5.84 / 5.64
Declared Refrigerant Capacity P_D	1,3,5	kW	185.7 / 115.6	97.0 / 73.4	104.5 / 86.6
Declared Power Input D_D		kW	15.3 / 14.3	7.3 / 12.5	8.8 / 15.4
Declared $EER_{DC,D}$			12.13 / 8.09	13.37 / 5.89	11.88 / 5.61

SSCEE	2,3,5	%	170.6	165.3	155.1
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 1 (2018)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		235.4	122.8	132.4
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	233.9	122.1	131.6
Declared $EER_{d, 35°C}$			2.77	3.26	3.18
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	265.3 / 189.4	137.3 / 62.8	148.1 / 73.7
Declared $EER_{d, 30°C}$			3.75 / 4.17	4.45 / 4.43	4.34 / 4.22
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	205.5 / 107.7	150.1 / 68.5	162.4 / 80.8
Declared $EER_{d, 25°C}$			5.41 / 5.88	6.06 / 6.07	5.84 / 5.64
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	185.7 / 115.6	97.0 / 73.4	104.5 / 86.6
Declared $EER_{d, 20°C}$			12.34 / 8.09	13.63 / 5.89	12.13 / 5.61
Sound Power Level LWA		dB(A)	91	82	82
Air flow rate		m³/h	74704	49803	49803
Off mode P_{OFF}		kW	0.088	0.098	0.098
Thermostat-off mode P_{TO}		kW	1.532	0.751	0.860
Standby Mode P_{SB}		kW	0.126	0.126	0.126
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		7.06	6.98	6.74
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	153121	163453	191820
Rated Refrigerant Capacity P _A	1,3,5	kW	146	154	174.4
Rated Power Input D _A		kW	48.7	52.9	65.1
Rated EER _{DC,A}			3	2.91	2.68
Declared Refrigerant Capacity P _B	1,3,5	kW	165.0 / 74.5	174.9 / 134.6	199.0 / 150.3
Declared Power Input D _B		kW	40.5 / 17.6	43.7 / 32.3	53.9 / 36.7
Declared EER _{DC,B}			4.08 / 4.23	4.01 / 4.17	3.69 / 4.10
Declared Refrigerant Capacity P _C	1,3,5	kW	181.7 / 81.9	147.1 / 101.7	164.1 / 118.1
Declared Power Input D _C		kW	33.3 / 14.4	26.5 / 17.4	30.3 / 21.2
Declared EER _{DC,C}			5.46 / 5.67	5.54 / 5.84	5.41 / 5.56
Declared Refrigerant Capacity P _D	1,3,5	kW	115.9 / 87.8	122.2 / 108.3	138.3 / 125.5
Declared Power Input D _D		kW	9.7 / 15.6	10.8 / 14.0	12.6 / 17.3
Declared EER _{DC,D}			11.89 / 5.65	11.36 / 7.72	10.95 / 7.27
SSCEE	2,3,5	%	155.5	168.3	164.0
SSCEE Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity P _{rated,c}	2,4,5		146.9	155	175.6
Declared Cooling Capacity 35°C P _{dc}	2,3,5	kW	146	154	174.4
Declared EER _d 35°C			3	2.91	2.68
Declared Cooling Capacity 30°C P _{dc}	2,3,5	kW	165.0 / 74.5	174.9 / 134.6	199.0 / 150.3
Declared EER _d 30°C			4.08 / 4.23	4.01 / 4.17	3.69 / 4.10
Declared Cooling Capacity 25°C P _{dc}	2,3,5	kW	181.7 / 81.9	147.1 / 101.7	164.1 / 118.1
Declared EER _d 25°C			5.46 / 5.67	5.54 / 5.84	5.41 / 5.56
Declared Cooling Capacity 20°C P _{dc}	2,3,5	kW	115.9 / 87.8	122.2 / 108.3	138.3 / 125.5
Declared EER _d 20°C			12.12 / 5.65	11.60 / 7.72	11.16 / 7.27
Sound Power Level LWA		dB(A)	87	80	82
Air flow rate		m³/h	49803	49803	49803
Off mode P _{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P _{TO}		kW	0.956	1.088	1.280
Standby Mode P _{SB}		kW	0.126	0.126	0.126
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

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

Ecodesign

	Notes:	Units	DCF020DX-06BFK0	DCF023DX-06BKK0	DCF026DX-08BKL0
SEPR	1,3,5		7.36	7.21	7.91
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	191904	216988	227516
Rated Refrigerant Capacity P_A	1,3,5	kW	190.5	211.1	242.8
Rated Power Input D_A		kW	61.5	70.4	75.2
Rated $EER_{DC,A}$			3.1	3	3.23
Declared Refrigerant Capacity P_B	1,3,5	kW	214.6 / 159.3	238.2 / 182.9	273.0 / 204.0
Declared Power Input D_B		kW	50.9 / 36.0	58.0 / 43.0	61.9 / 44.3
Declared $EER_{DC,B}$			4.21 / 4.43	4.11 / 4.25	4.41 / 4.61
Declared Refrigerant Capacity P_C	1,3,5	kW	173.0 / 103.6	199.5 / 137.4	221.3 / 154.8
Declared Power Input D_C		kW	29.4 / 18.5	35.1 / 23.3	35.8 / 24.9
Declared $EER_{DC,C}$			5.88 / 5.61	5.68 / 5.90	6.17 / 6.21
Declared Refrigerant Capacity P_D	1,3,5	kW	151.2 / 111.5	167.5 / 146.5	192.9 / 165.5
Declared Power Input D_D		kW	12.4 / 20.4	13.9 / 18.2	14.1 / 19.4
Declared $EER_{DC,D}$			12.18 / 5.47	12.01 / 8.06	13.65 / 8.54
SSCEE	2,3,5	%	157.8	170.4	184.0
SSCEE Tier			Tier 1 (2018)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		191.8	212.4	244.1
Declared Cooling Capacity 35°C Pdc	2,3,5	kW	190.5	211.1	242.8
Declared EER_d 35°C			3.1	3	3.23
Declared Cooling Capacity 30°C Pdc	2,3,5	kW	214.6 / 159.3	238.2 / 182.9	273.0 / 204.0
Declared EER_d 30°C			4.21 / 4.43	4.11 / 4.25	4.41 / 4.61
Declared Cooling Capacity 25°C Pdc	2,3,5	kW	173.0 / 103.6	199.5 / 137.4	221.3 / 154.8
Declared EER_d 25°C			5.88 / 5.61	5.68 / 5.90	6.17 / 6.21
Declared Cooling Capacity 20°C Pdc	2,3,5	kW	151.2 / 111.5	167.5 / 146.5	192.9 / 165.5
Declared EER_d 20°C			12.43 / 5.47	12.26 / 8.06	13.93 / 8.54
Sound Power Level LWA		dB(A)	87	84	85
Air flow rate		m³/h	74704	74704	99605
Off mode P_{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P_{TO}		kW	1.392	1.543	1.396
Standby Mode P_{SB}		kW	0.136	0.136	0.146
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		7.40	7.26	6.66
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	261794	296179	352153
Rated Refrigerant Capacity P _A	1,3,5	kW	261.3	290.2	316.3
Rated Power Input D _A		kW	83.0	97.1	111.0
Rated EER _{DC,A}			3.15	2.99	2.85
Declared Refrigerant Capacity P _B	1,3,5	kW	294.3 / 225.3	327.8 / 246.0	358.1 / 276.2
Declared Power Input D _B		kW	68.6 / 51.0	80.7 / 56.5	93.0 / 68.8
Declared EER _{DC,B}			4.29 / 4.42	4.06 / 4.35	3.85 / 4.01
Declared Refrigerant Capacity P _C	1,3,5	kW	245.5 / 168.2	268.0 / 189.4	302.1 / 209.3
Declared Power Input D _C		kW	42.0 / 28.0	46.8 / 32.8	57.4 / 37.9
Declared EER _{DC,C}			5.85 / 6.02	5.73 / 5.78	5.26 / 5.52
Declared Refrigerant Capacity P _D	1,3,5	kW	207.5 / 179.7	230.6 / 202.3	251.2 / 223.4
Declared Power Input D _D		kW	17.0 / 22.4	18.9 / 26.3	23.2 / 30.7
Declared EER _{DC,D}			12.20 / 8.04	12.17 / 7.68	10.83 / 7.29
SSCEE	2,3,5	%	176.2	175.0	163.2
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity P _{rated,c}	2,4,5		262.8	291.7	318.2
Declared Cooling Capacity 35°C P _{dc}	2,3,5	kW	261.3	290.2	316.3
Declared EER _d 35°C			3.15	2.99	2.85
Declared Cooling Capacity 30°C P _{dc}	2,3,5	kW	294.3 / 225.3	327.8 / 246.0	358.1 / 276.2
Declared EER _d 30°C			4.29 / 4.42	4.06 / 4.35	3.85 / 4.01
Declared Cooling Capacity 25°C P _{dc}	2,3,5	kW	245.5 / 168.2	268.0 / 189.4	302.1 / 209.3
Declared EER _d 25°C			5.85 / 6.02	5.73 / 5.78	5.26 / 5.52
Declared Cooling Capacity 20°C P _{dc}	2,3,5	kW	207.5 / 179.7	230.6 / 202.3	251.2 / 223.4
Declared EER _d 20°C			12.45 / 8.04	12.42 / 7.68	11.06 / 7.29
Sound Power Level LWA		dB(A)	85	90	92
Air flow rate		m³/h	99605	99605	99605
Off mode P _{OFF}		kW	0.098	0.098	0.098
Thermostat-off mode P _{TO}		kW	1.658	1.690	2.062
Standby Mode P _{SB}		kW	0.146	0.146	0.146
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

DCF039DX-10BMS0, DCF044DX-12BSS0

Ecodesign

	Notes:	Units	DCF039DX-10BMS0	DCF044DX-12BSS0
SEPR	1,3,5		6.90	7.53
SEPR Tier			Tier 2 (2021)	Tier 2 (2021)
Annual Electricity Consumption		kWh/a	381985	384957
Rated Refrigerant Capacity P_A	1,3,5	kW	355.9	391.1
Rated Power Input D_A		kW	118.2	125.0
Rated $EER_{DC,A}$			3.01	3.13
Declared Refrigerant Capacity P_B	1,3,5	kW	335.6 / 261.9	374.1 / 307.4
Declared Power Input D_B		kW	80.1 / 63.0	85.2 / 67.1
Declared $EER_{DC,B}$			4.19 / 4.16	4.39 / 4.58
Declared Refrigerant Capacity P_C	1,3,5	kW	367.3 / 287.3	408.2 / 332.8
Declared Power Input D_C		kW	66.0 / 52.1	69.7 / 55.2
Declared $EER_{DC,C}$			5.56 / 5.52	5.86 / 6.03
Declared Refrigerant Capacity P_D	1,3,5	kW	282.7 / 204.9	310.5 / 270.4
Declared Power Input D_D		kW	25.4 / 25.9	24.9 / 32.4
Declared $EER_{DC,D}$			11.14 / 7.91	12.46 / 8.36
SSCEE	2,3,5	%	167.5	183.3
SSCEE Tier			Tier 2 (2021)	Tier 2 (2021)
Rated Cooling Capacity $P_{rated,c}$	2,4,5		358	393.6
Declared Cooling Capacity 35°C P _{dc}	2,3,5	kW	355.9	391.1
Declared EER_d 35°C			3.01	3.13
Declared Cooling Capacity 30°C P _{dc}	2,3,5	kW	335.6 / 261.9	374.1 / 307.4
Declared EER_d 30°C			4.19 / 4.16	4.39 / 4.58
Declared Cooling Capacity 25°C P _{dc}	2,3,5	kW	367.3 / 287.3	408.2 / 332.8
Declared EER_d 25°C			5.56 / 5.52	5.86 / 6.03
Declared Cooling Capacity 20°C P _{dc}	2,3,5	kW	282.7 / 204.9	310.5 / 270.4
Declared EER_d 20°C			11.40 / 7.91	12.73 / 8.36
Sound Power Level LWA		dB(A)	90	87
Air flow rate		m³/h	124507	149408
Off mode P_{OFF}		kW	0.098	0.098
Thermostat-off mode P_{TO}		kW	2.288	2.730
Standby Mode P_{SB}		kW	0.156	0.166
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

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.

Technical



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