NEW MICROCHANNEL

Airedale
APPLIED THERMAL INNOVATION

DeltaChill™ Air Cooled & Free Cool

Chiller
100 kW - 510 kW

R410A

Technical Manual

ISO 14001
EMS52086

ISO 9001
FM00542

About Airedale Products & Customer Services

Warranty

All AIAC products or parts (non consumable) supplied for installation within the UK mainland and commissioned by an AIAC 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 AIAC for installation within the UK or for Export that are properly commissioned in accordance with AIAC standards and specification, not commissioned by an AIAC 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 AIAC 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 AIAC 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).

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.

CAUTION

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

Spares

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

Training

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

Customer Services

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

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

For information, visit us at our Web Site: ***www.airedale.com***

Health and Safety

IMPORTANT

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

Safety

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

CAUTION

1 Installation, service and maintenance of Airedale equipment should only be carried out by technically trained competent personnel.

CAUTION

2 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.

3 Also ensure that there are no other power feeds to the unit such as fire alarm circuits, BMS circuits etc.

4 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.

5 The refrigerant used in this range of products is classified under the COSHH regulations as an irritant, with set Workplace Exposure Levels (WEL) for consideration if this plant is installed in confined or poorly ventilated areas.

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

Protective Personal Equipment

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

Refrigerant Warning

The Airedale DeltaChill Freecool uses R410A refrigerant which is a high pressure refrigerant. It requires careful attention to proper storage and handling procedures.

Use on 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.

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.

Environmental Considerations

Freeze Protection

Airedale recommends the following actions to help protect the unit during low temperature operation. This also includes the units subject to low ambient temperatures.

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) is used within the system to ensure adequate protection. Please ensure that the concentration is capable of protection at least 3°C lower than ambient.
- Water / glycol solution is 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 3°C 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) Referrer 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.

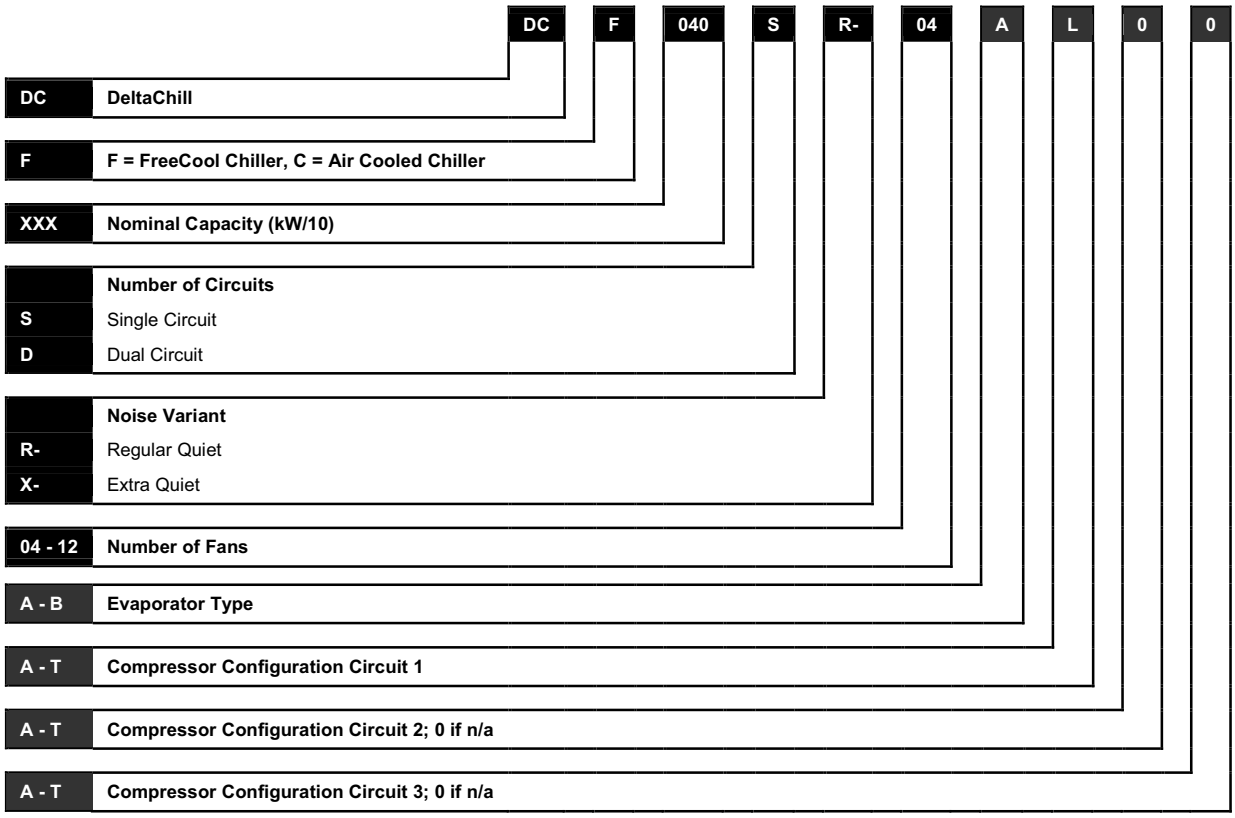
CE Directive

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

Electromagnetic Compatibility Directive (EMC)	**2004/108/EC**
Low Voltage Directive (LVD)	**2006/95/EC**
Machinery Directive (MD)	**89/392/EEC version 2006/42/EC**
Pressure Equipment Directive (PED)	**97/23/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.

General Description



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

General Description

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 or Copper tube with aluminium fins

For DCC models the condenser is manufactured from Copper tube with aluminium fins whilst the DCF variant has aluminium micro channel.

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.

AIRETronix Controls

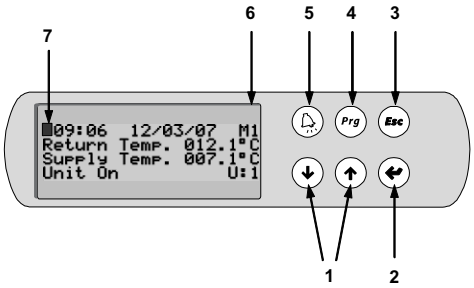
General Description

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

AIRETronix 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 (AIRELar) 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.

AIRETronix Controls

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

AIRETronix Controls

Optional Features

Pump(s) Hours Run	Displays hours run of each pump.
BMS Interface Card	Enables AIRETronix 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	A water flow switch is fitted ensuring integrity of the cooling solution flow
CAUTION	**The water flow switch or pump interlock must be fitted in addition to the flow proving device to validate warranty.**
Water Connections	Water inlet and outlet connections are of a grooved and clamped type construction. The unit is supplied with a counter pipe and coupling assembly for quick connection. Optional flanged connections available on request, please consult Airedale.
Water Filter	Water filters are fitted to protect the evaporator from clogging by sediment. This is a standard feature with the DeltaChill Freecool. For standard DeltaChill the water filter is an optional extra.

Optional features - Energy saving

Electronically Commutated (EC) Fan Motor

Each 800mm diameter fan incorporates on board electronics with AC/DC Conversion and inverter driven DC motor control to offer unparalleled high efficiency levels combined with smooth step-less speed control and quiet operation.

Sickle blades reduce air turbulence to minimise sound levels and power consumption whilst maximising performance.

The long bell mouth design provides improved aerodynamics, up to 10% more air movement, and an extended vertical throw of air to reduce the chance of air re-circulation. As standard the enclosure is complete with an integral finger proof grille.

The fans offer maximum airflow performance while keeping sound levels to a minimum.

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

Power Factor Correction

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

Extra Free Cool

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

Optional extras - energy saving

Pump - Inverter Driven - Variable Speed for Constant Water Flow

A factory fitted in line single or run/standby pump is available in a standard or larger external head; ***please specify at order***.

Flow is varied via an electronic flow meter, depending on system requirements.

Adjustment and monitoring is via the microprocessor display.

Factory fitted and supplied as standard complete with:

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

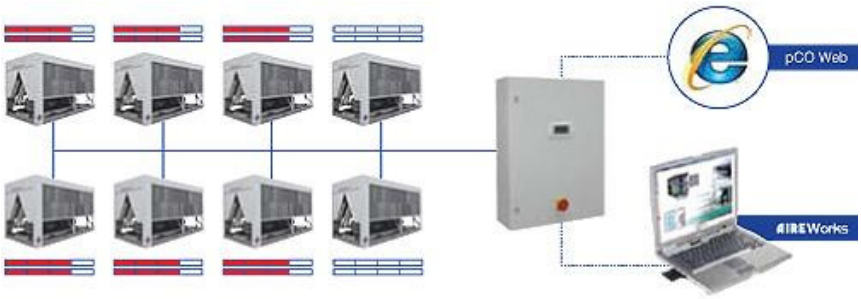
Chiller Sequence Manager

For the efficient temperature and capacity operation of multiple units on a single site, the sequence manager will permit interlinked operation of the complete system thereby providing optimum temperature control and minimum power consumption.

Up to 8 units can be sequenced.

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

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



Energy Manager

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

Optional Extras – General

Corrosion Resistant Coated Coils	In atmospheres where high corrosion is anticipated a corrosion resistant epoxy coating is applied to the aluminium fins.
Anti Vibration Mounts (Spring Type)	Spring vibration isolators can be supplied loose for on site fitting to the base frame of each unit. The isolators are suitable for fitting to structural steelwork providing the surface is level and of sufficient strength where a high level of vibration elimination is required.
Anti Vibration Mounts (Pad Type)	Pad vibration isolators can be supplied loose for on site fitting to the base frame of each unit. The isolators are suitable for fitting to structural steelwork providing the surface is level and of sufficient strength where a moderate degree of vibration elimination is required.
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). For further details refer to ***Dimensional Data***.

Optional Extras Controls

BMS Interface Card	Enables **AIRE**Tronix controlled chillers to be interfaced with most BMS, including Airedale's own pCOWeb, factory fitted, please contact Airedale. For further information, refer to Controls, on page 13.
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***, on page 16.
Phase Rotation Protection	A phase sequence relay is available for units containing 3 phase scroll compressors, to prevent possible damage by running the compressor in the wrong direction.
Mains EMC Filter	A mains EMC filter is fitted when the EC fan option is selected with the unit. The filter is designed for convenient mains connection within the busbar chamber. EC fans only.
Control Panel Low Ambient Protection	Supplementary heating can be offered to the control panel to ensure components such as LCD displays operate in low ambient conditions.
Remote Setpoint Adjust	Allows the chilled water setpoint to be adjusted via an external 0-10V signal or Digital Input.

Waterside Options

Water Filter

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

Flushing Bypass Kit (Standard)

Comprises:
- Shut off valves

Flushing Bypass Kit (Regulating)

Comprises:
- Shut off valves
- Double regulating valve

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

Single pump + filter + flushing bypass

Comprises:
- Single pump with valve isolation
- Shut off valves
- Filters

Single pump + filter + regulating bypass

Comprises:
- Single pump with valve isolation
- Shut off valves
- Filters
- Double regulating valves

Run & standby pumps + filter + flushing bypass

Comprises:
- Run and standby pumps with valve isolation
- Shut off valves
- Filters
- Non return valves

Run & standby pumps + filter + regulating bypass

Comprises:
- Run and standby pumps with valve isolation
- Shut off valves
- Filters
- Double regulating valves
- Non return valves

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

Commissioning Options

Commissioning

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

ChillerGuard® UK Mainland

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

Design Features & Information

Energy Saving Features

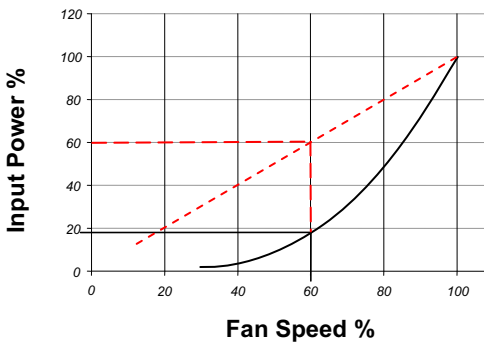
Electronically Commutated (EC) Fan Motor

EC motors are DC motors with integrated AC to DC conversion; this gives the flexibility of connecting to ac mains with the efficiency and simple speed control of a DC motor. The EC fan offers significant power reduction in comparison with equivalent AC fan at both full and modulated fan speeds. The inbuilt EC fan control module allows for fan speed modulation from 15-100%, a standard AC fans modulating range is typically 40-100% of full fan speed.

The EC fan presents superior energy efficiency at full and reduced fan speed compared to the equivalent AC fan motor, offering efficiency savings anywhere between 30 to 100% compared with an AC fan.

Fan speeds are factory set depending on sound level variant.

Standard voltage regulated (VR) fan speed controllers offer a linear response. By comparison the EC fan is adjusted on demand via the unit microprocessor with precision, offering substantial energy savings. The following illustration shows a comparison of the typical power input required by each method.



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

EMC Mains Filter

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

Energy Saving Features

Pump Options	A variety of pump options to suit a wide range of applications is available: Factory fitted in line as a single pump or run/standby configuration and available in standard and larger nominal external head pressures. Factory fitted run/standby pumps have a shut off valve to the inlet and a non return valve to the outlet, enabling one pump to be maintained without interrupting Chiller flow. Supplied with electrical switchgear and isolating valve as standard. Run/standby pumps are rotated automatically to ensure even pump usage and prolong component life.
Standard - AC Motor - Fixed Speed – Standard Head	Standard fixed speed pumps (standard unit heads) are also available.
Standard - AC Motor - Fixed Speed – High head	Standard fixed speed pumps with high head are also available.
Inverter Driven Motor - Variable Speed for Constant Water Flow- Standard head	Flow is monitored by the onboard electronic flow meter to maintain the exact requirement of the application, thus saving pump input power whilst providing optimum chilled water flow control. The option of an onboard variable speed drive combined with the electronic flow metering system offers an exceptional combination of simple commissioning and optimised efficiency.
Inverter Driven Motor - Variable Speed for Constant Water Flow- High Head	As above but with high head capacity.

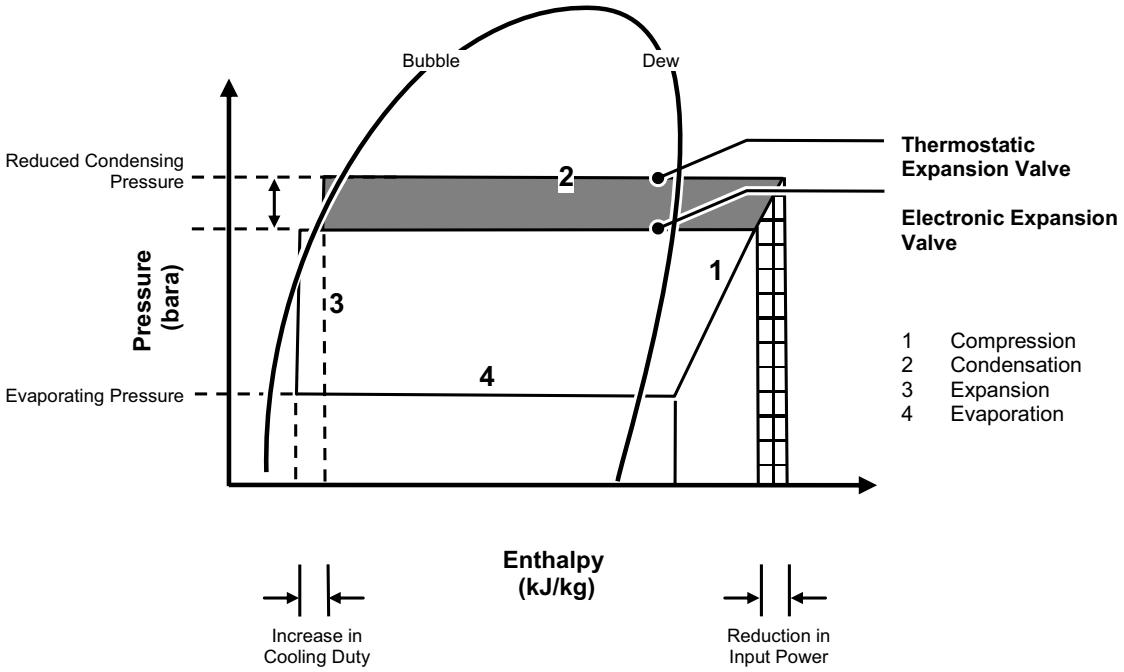
Design Features & Information

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 down, even down to 30% of the valves rated capacity.



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).

Design Features & Information

Specific Heat Capacity (SHC)

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

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

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

CAUTION **Only use the SHC data when calculating fluid VOLUME. Use figure for 0% concentration (100% water) when applying Glycol Correction Factors, refer to *Glycol Data*, on page 24.**

Minimum System Water Volume Calculations

METHOD 1
(Preferred Method)

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

V_{min} = **Water Flow Rate (litres/minute) x Minimum Compressor Run Time (mins) x Chiller Loading Factor**

Where V_{min} is the minimum water volume in litres
Minimum Compressor Run Time is 2 minutes

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

Example:

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

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

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

METHOD 2

Where the system permanent heat load is unknown:

V_{min} = **Water Flow Rate (litres/hour) x Minimum Turndown Ratio x 1.2 ÷ Maximum number of compressor starts (per hour)**

Example:

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

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

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

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.

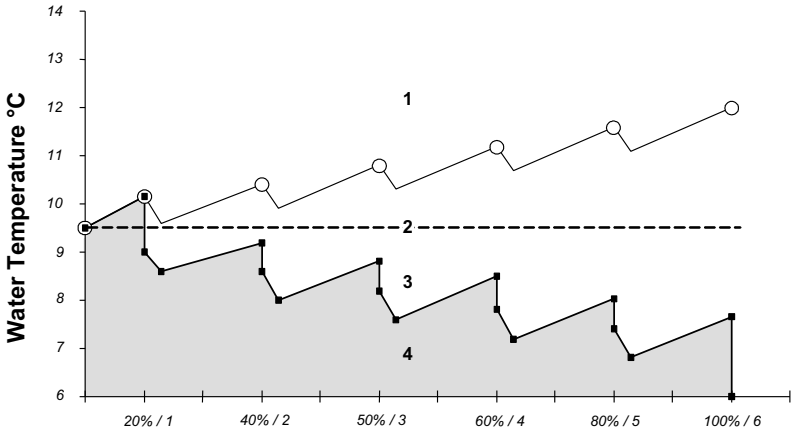
Selection of the best application control scheme can be made via a soft switch in the microprocessor during initial commissioning.

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.

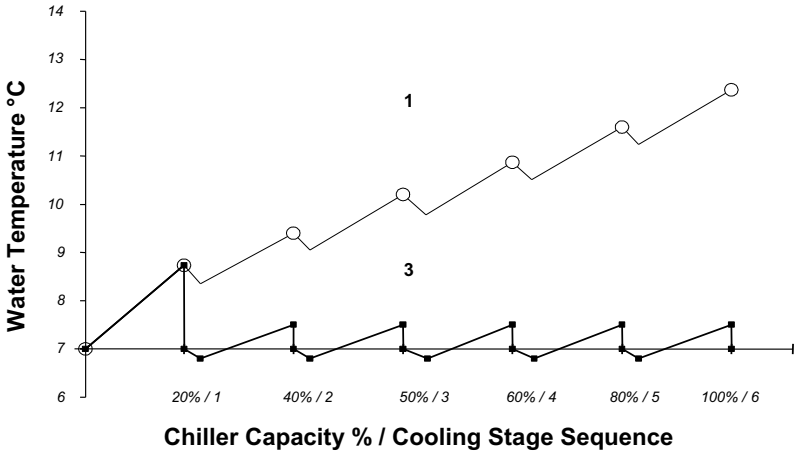
Examples based on Model DCC033DR-08BMM0 having 6 Stages of Cooling

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

Variable Supply Temperature Control



Constant Supply Temperature Control



CAUTION

Factory set to Variable Supply Temperature Control unless otherwise stated at order.

Only when the mode selection has been set can the unit be enabled.

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)

1 Temperatures lower than those stated can be obtained with the addition of glycol.
2 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.

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

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

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

		Catalogue Figure	Multiplier		Corrected Figure
Cooling kW	(refer to ***Performance Data – Capacity Data***)	326	x 0.97	20% Ethylene Glycol =	316.2 kW
Input kW	(refer to ***Performance Data – Capacity Data***)	105.6	x 0.98		103.5 kW
Flow l/s	(calculated $\frac{(DX\ (Mechanical\ Cooling\ kW)}{\Delta T \times 4.19}$)	15.56 l/s	x 1.02		15.87 l/s
Pressure Drop kPa	(refer to ***Waterside Pressure Drops***, on page 137)	**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 1:1995. **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: 1995.

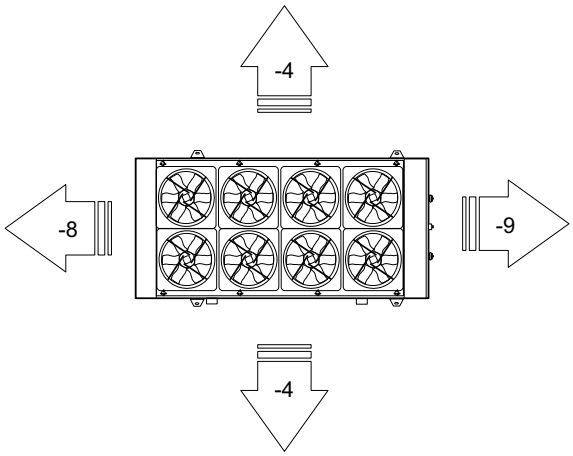
Sound Pressure Levels are calculated from sound power using the expanded parallelepiped method according to BS EN ISO 11203: 1996.

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



DeltaChill

Cooling Performance AC Fans

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC011SR-04AK00	5	117.1	28.9	111.6	31.7	106.0	34.8	100.0	38.2
	6	120.9	29.0	115.3	31.8	109.5	34.9	103.3	38.3
	7	124.7	29.2	119.1	32.0	113.1	35.0	106.8	38.4
	8	128.7	29.3	122.9	32.1	116.8	35.1	110.3	38.5
	9	132.7	29.5	126.8	32.2	120.5	35.3	113.8	38.7
	10	136.8	29.7	130.7	32.4	124.3	35.4	117.5	38.8
DCC014SR-04AL00	5	148.7	38.7	142.2	42.1	134.5	45.6	126.1	49.5
	6	153.5	38.9	146.7	42.2	138.8	45.7	130.2	49.6
	7	158.5	39.1	151.3	42.3	143.2	45.9	134.4	49.8
	8	163.5	39.2	156.1	42.5	147.7	46.0	138.7	49.9
	9	168.6	39.4	160.9	42.6	152.3	46.2	143.0	50.1
	10	173.8	39.6	165.7	42.8	157.0	46.3	147.4	50.2
DCC017SR-04AM00	5	174.1	45.1	165.5	48.9	156.3	53.1	146.3	57.6
	6	179.6	45.3	170.7	49.2	161.2	53.3	151.0	57.9
	7	185.1	45.6	176.0	49.4	166.2	53.6	155.7	58.1
	8	190.8	45.8	181.4	49.7	171.3	53.8	160.5	58.4
	9	196.5	46.0	186.9	49.9	176.5	54.1	165.4	58.7
	10	202.3	46.3	192.4	50.2	181.8	54.4	170.4	58.9
DCC021SR-04BS00	5	215.6	58.9	204.5	63.9	192.4	69.5	179.4	75.6
	6	222.2	59.2	210.8	64.3	198.4	69.8	185.0	76.0
	7	229.0	59.5	217.2	64.6	204.5	70.2	190.8	76.3
	8	235.8	59.8	223.7	64.9	210.7	70.5	196.6	76.7
	9	242.8	60.1	230.4	65.2	217.0	70.9	202.5	77.0
	10	249.8	60.5	237.1	65.6	223.3	71.2	208.5	77.4
DCC023SR-04BT00	5	248.6	70.6	234.9	76.7	220.2	83.3	204.5	90.7
	6	256.1	71.1	241.9	77.2	226.8	83.9	210.7	91.2
	7	263.7	71.6	249.1	77.7	233.6	84.4	217.0	91.8
	8	271.3	72.1	256.4	78.3	240.4	85.0	223.4	92.3
	9	279.1	72.7	263.7	78.8	247.3	85.5	229.8	92.9
	10	287.0	73.2	271.2	79.4	254.4	86.1	236.4	93.5
DCC024SR-06BT00	5	260.7	68.6	247.4	74.4	233.2	80.7	217.9	87.6
	6	268.8	68.9	255.1	74.8	240.5	81.1	224.8	88.0
	7	277.0	69.3	263.0	75.2	248.0	81.5	231.9	88.4
	8	285.4	69.6	271.0	75.5	255.6	81.9	239.0	88.8
	9	294.0	70.0	279.2	75.9	263.3	82.3	246.3	89.2
	10	302.6	70.4	287.4	76.3	271.1	82.7	253.6	89.7

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Cooling Performance AC Fans

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC011DR-04ACC0	5	118.1	28.8	112.7	31.6	106.9	34.7	100.9	38.1
	6	122.0	29.0	116.4	31.8	110.5	34.8	104.3	38.2
	7	125.9	29.1	120.2	31.9	114.1	34.9	107.8	38.3
	8	129.9	29.3	124.0	32.0	117.8	35.1	111.3	38.4
	9	133.9	29.5	127.9	32.2	121.6	35.2	114.9	38.6
	10	138.1	29.6	131.9	32.3	125.4	35.3	118.6	38.7
DCC013DR-04ACD0	5	134.9	33.7	128.8	36.8	122.0	40.1	114.7	43.7
	6	139.3	33.9	133.0	36.9	126.0	40.2	118.5	43.8
	7	143.7	34.1	137.2	37.1	130.1	40.3	122.4	43.9
	8	148.3	34.2	141.6	37.2	134.2	40.5	126.4	44.1
	9	152.9	34.4	146.0	37.4	138.5	40.6	130.4	44.2
	10	157.6	34.6	150.5	37.5	142.8	40.8	134.5	44.4
DCC014DR-04ADD0	5	149.4	38.5	142.9	41.9	135.2	45.4	126.9	49.2
	6	154.2	38.7	147.4	42.0	139.6	45.5	131.0	49.4
	7	159.1	38.9	152.1	42.1	144.0	45.7	135.2	49.5
	8	164.2	39.0	156.8	42.3	148.5	45.8	139.5	49.7
	9	169.3	39.2	161.7	42.4	153.1	46.0	143.9	49.8
	10	174.5	39.4	166.6	42.6	157.8	46.1	148.3	50.0
DCC015DR-04ADF0	5	162.7	41.9	155.1	45.5	146.5	49.3	137.2	53.5
	6	167.9	42.1	160.0	45.7	151.2	49.5	141.7	53.7
	7	173.2	42.3	165.0	45.9	155.9	49.7	146.2	53.9
	8	178.6	42.5	170.1	46.1	160.8	49.9	150.8	54.1
	9	184.1	42.7	175.3	46.3	165.7	50.1	155.4	54.3
	10	189.6	42.9	180.5	46.5	170.7	50.3	160.1	54.6
DCC016DR-04AJJ0	5	169.3	43.6	160.6	47.4	151.5	51.6	141.9	56.3
	6	174.7	43.8	165.9	47.6	156.5	51.8	146.6	56.5
	7	180.2	44.0	171.2	47.8	161.6	52.0	151.4	56.6
	8	185.9	44.1	176.6	48.0	166.8	52.2	156.3	56.8
	9	191.6	44.3	182.1	48.2	172.0	52.4	161.3	57.0
	10	197.5	44.5	187.7	48.4	177.3	52.6	166.3	57.3
DCC018DR-04BJK0	5	195.7	51.4	185.5	56.1	174.7	61.4	163.3	67.2
	6	201.8	51.6	191.4	56.4	180.3	61.7	168.6	67.5
	7	208.1	51.9	197.3	56.7	186.0	61.9	173.9	67.8
	8	214.4	52.2	203.4	57.0	191.7	62.2	179.4	68.1
	9	220.8	52.5	209.5	57.3	197.5	62.5	184.9	68.4
	10	227.3	52.8	215.7	57.6	203.5	62.8	190.5	68.7
DCC019DR-04AFK0	5	202.2	52.4	191.6	57.1	180.3	62.4	168.4	68.1
	6	208.5	52.7	197.6	57.4	186.0	62.7	173.7	68.5
	7	214.8	53.0	203.7	57.8	191.8	63.0	179.2	68.8
	8	221.3	53.3	209.9	58.1	197.7	63.3	184.7	69.1
	9	227.9	53.6	216.2	58.4	203.6	63.7	190.3	69.5
	10	234.6	54.0	222.5	58.8	209.7	64.0	196.0	69.8
DCC020DR-06AFK0	5	208.4	51.7	198.3	56.4	187.6	61.5	176.2	67.1
	6	215.1	52.0	204.8	56.6	193.7	61.7	182.1	67.4
	7	222.0	52.2	211.3	56.9	200.0	62.0	188.0	67.6
	8	228.9	52.5	218.0	57.1	206.4	62.2	194.1	67.9
	9	236.0	52.8	224.8	57.4	212.9	62.5	200.2	68.1
	10	243.2	53.0	231.7	57.7	219.5	62.8	206.5	68.4
DCC021DR-04AKK0	5	226.1	59.4	214.0	65.1	201.2	71.4	187.7	78.4
	6	233.1	59.7	220.7	65.4	207.5	71.7	193.6	78.8
	7	240.2	60.1	227.4	65.8	213.9	72.1	199.7	79.1
	8	247.4	60.5	234.3	66.2	220.4	72.5	205.8	79.5
	9	254.7	60.9	241.2	66.6	227.0	72.9	212.0	79.9
	10	262.1	61.4	248.3	67.0	233.7	73.3	218.3	80.4

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Cooling Performance AC Fans

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC022DR-06AKK0	5	235.7	58.3	223.9	63.7	211.3	69.6	198.1	76.2
	6	243.2	58.6	231.0	63.9	218.2	69.9	204.6	76.5
	7	250.9	58.9	238.3	64.2	225.1	70.1	211.2	76.7
	8	258.6	59.2	245.8	64.5	232.2	70.4	217.9	77.0
	9	266.5	59.5	253.3	64.8	239.4	70.7	224.7	77.3
	10	274.5	59.8	261.0	65.1	246.7	71.0	231.7	77.5
DCC024DR-04BKL0	5	252.5	70.4	238.6	76.7	223.8	83.8	208.0	91.5
	6	260.1	70.8	245.8	77.2	230.6	84.3	214.5	92.0
	7	267.8	71.3	253.2	77.7	237.6	84.8	221.0	92.5
	8	275.7	71.8	260.3	78.3	244.6	85.3	227.6	93.0
	9	283.6	72.3	268.2	78.7	251.8	85.8	234.3	93.6
	10	291.7	72.8	275.9	79.2	259.0	86.3	241.1	94.1
DCC025DR-06BKL0	5	264.9	68.1	251.5	74.1	237.2	80.7	221.9	88.0
	6	273.2	68.4	259.4	74.4	244.7	81.0	229.0	88.3
	7	281.6	68.7	267.5	74.7	252.4	81.3	236.3	88.6
	8	290.2	69.1	275.7	75.0	260.2	81.7	243.7	89.0
	9	298.9	69.4	284.0	75.4	268.1	82.0	251.2	89.3
	10	307.7	69.8	292.5	75.7	276.2	82.4	258.8	89.7
DCC027DR-04BLL0	5	276.3	81.2	261.0	88.3	244.5	96.1	226.7	104.6
	6	284.6	81.8	268.8	88.9	251.8	96.7	233.6	105.2
	7	292.9	82.3	276.7	89.5	259.3	97.3	240.5	105.8
	8	301.4	82.9	284.0	90.2	266.8	97.9	247.6	106.4
	9	310.0	83.5	292.9	90.7	274.5	98.5	254.7	107.1
	10	318.7	84.1	301.1	91.3	282.2	99.1	262.0	107.7
DCC028DR-06BLL0	5	291.2	77.7	276.6	84.4	260.8	91.6	243.8	99.7
	6	300.2	78.1	285.3	84.7	269.0	92.0	251.5	100.1
	7	309.4	78.5	294.1	85.1	277.4	92.4	259.4	100.5
	8	318.8	78.8	303.0	85.5	285.9	92.8	267.4	100.9
	9	328.3	79.2	312.1	85.9	294.5	93.2	275.5	101.3
	10	337.9	79.6	321.3	86.3	303.2	93.7	283.7	101.7
DCC030DR-06BLM0	5	315.7	84.7	299.4	91.9	281.9	99.9	263.2	108.6
	6	325.4	85.2	308.7	92.4	290.7	100.4	271.4	109.1
	7	335.2	85.6	318.1	92.9	299.6	100.9	279.7	109.6
	8	345.2	86.1	327.6	93.4	308.6	101.4	288.2	110.2
	9	355.4	86.6	337.3	94.0	317.8	102.0	296.8	110.7
	10	365.7	87.1	347.1	94.5	327.1	102.5	305.6	111.3
DCC031DR-08BLM0	5	324.1	83.9	308.8	91.0	291.7	98.7	273.3	107.1
	6	334.4	84.3	318.5	91.4	301.0	99.1	282.1	107.5
	7	344.8	84.6	328.4	91.8	310.4	99.5	291.0	107.9
	8	355.5	85.0	338.5	92.2	320.0	99.9	300.0	108.3
	9	366.3	85.4	348.8	92.6	329.8	100.3	309.3	108.8
	10	377.2	85.8	359.2	93.0	339.7	100.7	318.6	109.2
DCC032DR-06BMM0	5	336.7	91.5	319.1	99.4	300.2	107.9	280.1	117.3
	6	346.9	92.1	328.8	100.0	309.4	108.6	288.6	118.0
	7	357.2	92.7	338.6	100.6	318.7	109.2	297.4	118.6
	8	367.8	93.3	348.6	101.2	328.2	109.8	306.3	119.3
	9	378.5	93.9	358.8	101.9	337.7	110.5	315.3	120.0
	10	389.3	94.5	369.1	102.5	347.5	111.2	324.4	120.7
DCC033DR-08BMM0	5	347.0	90.1	329.8	97.8	311.4	106.1	291.6	115.2
	6	357.7	90.6	340.1	98.3	321.2	106.6	300.9	115.7
	7	368.7	91.0	350.6	98.8	331.1	107.1	310.2	116.2
	8	379.8	91.5	361.2	99.2	341.2	107.6	319.8	116.7
	9	391.2	92.0	372.1	99.7	351.5	108.1	329.4	117.2
	10	402.7	92.4	383.0	100.2	361.9	108.6	339.3	117.8

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Cooling Performance AC Fans

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC036DR-06BMS0	5	379.1	107.0	358.3	116.3	335.5	126.6	312.3	137.5
	6	390.5	107.7	369.2	117.0	346.3	127.1	321.8	138.3
	7	402.1	108.5	380.2	117.8	356.7	127.9	331.5	139.1
	8	413.8	109.2	391.3	118.5	367.2	128.7	341.3	139.9
	9	425.7	109.9	402.6	119.3	377.8	129.5	351.3	140.7
	10	437.8	110.7	414.0	120.1	388.6	130.3	361.4	141.5
DCC038DR-10BMS0	5	400.2	103.4	381.1	112.3	360.3	121.9	337.4	132.3
	6	412.9	103.9	393.3	112.8	371.8	122.3	348.3	132.8
	7	425.9	104.4	405.7	113.3	383.5	122.8	359.4	133.2
	8	439.0	104.8	418.4	113.8	395.4	123.3	370.6	133.8
	9	452.4	105.3	431.1	114.3	407.5	123.8	382.0	134.3
	10	466.1	105.8	444.0	114.7	419.8	124.3	393.6	134.8
DCC039DR-06BSS0	5	414.7	122.2	391.6	132.8	365.5	144.8	339.9	157.3
	6	427.1	123.0	403.3	133.7	377.7	145.4	350.2	158.2
	7	439.7	123.8	415.2	134.5	388.8	146.3	360.6	159.1
	8	452.4	124.7	427.2	135.4	400.2	147.2	371.2	160.0
	9	465.3	125.6	439.4	136.3	411.7	148.1	381.9	161.0
	10	478.3	126.4	451.8	137.2	423.3	149.1	392.8	162.0
DCC042DR-10BSS0	5	441.6	116.5	419.9	126.4	396.3	137.2	370.7	149.1
	6	455.4	117.0	433.1	126.9	408.9	137.7	382.6	149.6
	7	469.4	117.5	446.6	127.4	421.7	138.2	394.7	150.2
	8	483.7	118.0	460.2	127.9	434.7	138.8	407.0	150.7
	9	498.3	118.5	474.1	128.4	447.9	139.3	419.5	151.3
	10	513.0	119.0	488.3	129.0	461.3	139.9	432.2	151.9
DCC043DR-08BST0	5	466.4	129.6	441.2	140.7	414.1	152.9	385.1	166.3
	6	480.2	130.3	454.4	141.5	426.7	153.8	397.0	167.2
	7	494.3	131.1	467.8	142.4	439.4	154.6	409.0	168.1
	8	508.6	132.0	481.4	143.2	452.3	155.5	421.1	169.0
	9	523.1	132.8	495.3	144.1	465.4	156.4	433.4	169.9
	10	537.9	133.6	509.3	145.0	478.7	157.3	445.9	170.9
DCC045DR-10BST0	5	477.6	127.3	453.2	138.2	426.9	150.0	398.6	163.0
	6	492.4	128.0	467.3	138.8	440.3	150.7	411.2	163.8
	7	507.5	128.6	481.7	139.5	453.9	151.4	424.0	164.5
	8	522.8	129.3	496.3	140.2	467.7	152.2	437.0	165.2
	9	538.3	130.0	511.1	140.9	481.7	152.9	450.2	166.0
	10	554.1	130.7	526.1	141.7	496.0	153.6	463.7	166.8
DCC046DR-08BTT0	5	495.3	141.1	467.9	153.3	438.6	166.5	407.3	181.2
	6	509.7	142.1	481.6	154.3	451.6	167.6	419.5	182.2
	7	524.4	143.0	495.6	155.3	464.8	168.6	431.9	183.3
	8	539.3	144.0	509.7	156.3	478.1	169.7	444.5	184.4
	9	554.4	145.1	524.1	157.4	491.7	170.8	457.2	185.5
	10	569.9	146.1	538.7	158.5	505.5	171.9	470.2	186.7
DCC048DR-10BTT0	5	508.3	138.0	481.7	149.8	453.2	162.7	422.6	176.8
	6	523.9	138.8	496.5	150.6	467.2	163.6	435.8	177.7
	7	539.7	139.6	511.6	151.5	481.4	164.4	449.1	178.6
	8	555.8	140.4	526.9	152.4	495.9	165.3	462.7	179.6
	9	572.2	141.3	542.4	153.3	510.6	166.3	476.5	180.5
	10	588.7	142.1	558.2	154.2	525.5	167.2	490.5	181.5
DCC051DR-08BVV0	5	545.9	160.2	513.1	177.2	481.4	195.3	446.3	216.3
	6	561.7	161.3	529.4	178.0	495.5	196.6	459.4	217.6
	7	577.8	162.5	544.7	179.2	509.8	197.9	472.8	218.9
	8	594.1	163.7	560.1	180.5	524.3	199.2	486.4	220.3
	9	610.6	165.0	575.8	181.8	539.1	200.6	500.2	221.7
	10	627.4	166.2	591.7	183.1	554.1	202.0	514.2	223.2

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Cooling Performance AC Fans Extra Quiet

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC011SX-04AK00	5	117.3	28.3	111.4	31.0	105.3	33.9	98.8	37.2
	6	121.0	28.4	115.0	31.1	108.7	34.0	102.0	37.3
	7	124.8	28.5	118.7	31.2	112.2	34.1	105.3	37.4
	8	128.7	28.7	122.4	31.3	115.7	34.3	108.7	37.5
	9	132.7	28.8	126.2	31.4	119.3	34.4	112.1	37.7
	10	136.7	29.0	130.0	31.6	123.0	34.5	115.6	37.8
DCC014SX-04AL00	5	147.0	37.8	139.7	41.1	131.9	44.7	123.4	48.7
	6	151.6	38.0	144.2	41.3	136.1	44.9	127.4	48.9
	7	156.3	38.1	148.7	41.4	140.4	45.1	131.4	49.0
	8	161.1	38.3	153.3	41.6	144.7	45.2	135.5	49.2
	9	166.0	38.5	157.9	41.8	149.2	45.4	139.7	49.4
	10	170.9	38.6	162.7	42.0	153.7	45.6	144.0	49.6
DCC017SX-04AM00	5	171.0	44.4	162.2	48.4	152.7	52.6	142.6	57.3
	6	176.3	44.7	167.2	48.6	157.5	52.9	147.1	57.6
	7	181.6	45.0	172.3	48.9	162.3	53.2	151.6	57.9
	8	187.1	45.2	177.5	49.2	167.2	53.5	156.2	58.2
	9	192.6	45.5	182.8	49.5	172.2	53.8	160.9	58.5
	10	198.2	45.8	188.1	49.8	177.3	54.1	165.7	58.8
DCC021SX-06BS00	5	220.4	56.8	209.5	61.8	197.7	67.2	184.9	73.2
	6	227.3	57.1	216.1	62.0	204.0	67.5	190.8	73.5
	7	234.4	57.3	222.9	62.3	210.4	67.7	196.9	73.7
	8	241.5	57.6	229.7	62.5	216.9	68.0	203.0	74.0
	9	248.8	57.8	236.7	62.8	223.5	68.3	209.2	74.3
	10	256.2	58.1	243.7	63.1	230.2	68.5	215.6	74.6
DCC023SX-04BT00	5	241.4	71.7	227.3	78.0	212.3	84.9	196.4	92.5
	6	248.5	72.3	234.0	78.6	218.6	85.5	202.2	93.1
	7	255.7	72.9	240.8	79.2	224.9	86.1	208.0	93.8
	8	262.9	73.5	247.6	79.8	231.3	86.8	214.0	94.4
	9	270.3	74.1	254.5	80.5	237.8	87.4	220.1	95.1
	10	277.7	74.7	261.5	81.1	244.4	88.1	226.2	95.7
DCC024SX-06BT00	5	255.8	67.6	242.2	73.6	227.7	80.1	212.3	87.2
	6	263.7	68.0	249.7	74.0	234.8	80.5	218.9	87.6
	7	271.6	68.4	257.3	74.4	242.0	80.9	225.6	88.1
	8	279.8	68.9	265.0	74.9	249.3	81.4	232.5	88.5
	9	288.0	69.3	272.9	75.3	256.7	81.8	239.4	89.0
	10	296.3	69.7	280.8	75.8	264.2	82.3	246.5	89.5

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Cooling Performance AC Fans Extra Quiet

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC011DX-04ACC0	5	118.4	28.2	112.5	30.9	106.2	33.8	99.7	37.1
	6	122.2	28.4	116.1	31.0	109.7	33.9	102.9	37.2
	7	126.0	28.5	119.8	31.1	113.2	34.1	106.3	37.3
	8	129.9	28.6	123.5	31.3	116.8	34.2	109.7	37.4
	9	133.9	28.8	127.3	31.4	120.4	34.3	113.1	37.5
	10	137.9	28.9	131.2	31.5	124.1	34.4	116.7	37.7
DCC013DX-04ACD0	5	134.1	33.0	127.4	35.9	120.3	39.2	112.7	42.8
	6	138.4	33.1	131.5	36.1	124.2	39.3	116.4	42.9
	7	142.7	33.3	135.7	36.2	128.1	39.5	120.1	43.1
	8	147.1	33.4	139.9	36.4	132.2	39.6	123.9	43.2
	9	151.6	33.6	144.2	36.5	136.2	39.8	127.8	43.4
	10	156.1	33.7	148.5	36.7	140.4	39.9	131.7	43.5
DCC014DX-04ADD0	5	147.6	37.6	140.4	40.9	132.6	44.5	124.1	48.4
	6	152.3	37.8	144.9	41.1	136.8	44.7	128.1	48.6
	7	157.0	37.9	149.4	41.2	141.2	44.8	132.2	48.8
	8	161.8	38.1	154.0	41.4	145.5	45.0	136.3	49.0
	9	166.7	38.3	158.7	41.6	150.0	45.2	140.6	49.2
	10	171.7	38.4	163.5	41.7	154.5	45.4	144.8	49.3
DCC015DX-04ADF0	5	160.2	41.1	152.1	44.7	143.4	48.6	134.0	52.9
	6	165.2	41.3	156.9	44.9	147.9	48.9	138.2	53.2
	7	170.3	41.6	161.7	45.2	152.5	49.1	142.6	53.4
	8	175.5	41.8	166.7	45.4	157.2	49.3	147.0	53.7
	9	180.7	42.0	171.7	45.6	161.9	49.6	151.5	53.9
	10	186.1	42.2	176.8	45.9	166.7	49.8	156.0	54.2
DCC016DX-04AJJ0	5	166.2	42.9	157.4	46.8	148.1	51.1	138.4	55.9
	6	171.4	43.1	162.5	47.0	153.0	51.4	142.9	56.2
	7	176.8	43.3	167.6	47.3	157.9	51.6	147.6	56.4
	8	182.3	43.5	172.9	47.5	162.9	51.8	152.3	56.6
	9	187.9	43.8	178.2	47.7	167.9	52.1	157.0	56.9
	10	193.5	44.0	183.6	48.0	173.1	52.3	161.9	57.1
DCC018DX-04BJK0	5	191.4	51.3	181.0	56.2	170.1	61.7	158.5	67.7
	6	197.3	51.6	186.7	56.5	175.4	62.0	163.5	68.0
	7	203.3	51.9	192.4	56.9	180.9	62.3	168.6	68.4
	8	209.4	52.3	198.2	57.2	186.4	62.7	173.8	68.7
	9	215.6	52.6	204.1	57.6	191.9	63.0	179.1	69.1
	10	221.8	53.0	210.0	57.9	197.6	63.4	184.4	69.4
DCC019DX-04AFK0	5	197.6	52.3	186.8	57.3	175.4	62.7	163.2	68.6
	6	203.7	52.7	192.6	57.6	180.8	63.1	168.3	69.0
	7	209.8	53.1	198.4	58.0	186.3	63.4	173.5	69.4
	8	216.0	53.4	204.3	58.4	191.9	63.8	178.8	69.8
	9	222.3	53.8	210.4	58.8	197.6	64.2	184.1	70.2
	10	228.8	54.2	216.4	59.2	203.4	64.6	189.5	70.6
DCC020DX-06AFK0	5	206.6	50.6	196.1	55.2	184.9	60.4	173.1	66.0
	6	213.1	50.8	202.3	55.5	190.9	60.6	178.7	66.2
	7	219.8	51.1	208.7	55.7	196.9	60.9	184.4	66.5
	8	226.5	51.3	215.2	56.0	203.1	61.1	190.2	66.8
	9	233.4	51.6	221.7	56.3	209.3	61.4	196.1	67.0
	10	240.4	51.9	228.4	56.6	215.7	61.7	202.1	67.3
DCC021DX-04AKK0	5	220.4	59.9	208.1	65.9	195.1	72.4	181.3	79.7
	6	227.1	60.4	214.4	66.3	201.1	72.9	186.9	80.2
	7	233.8	60.8	220.9	66.8	207.2	73.3	192.7	80.6
	8	240.7	61.3	227.4	67.2	213.3	73.8	198.4	81.1
	9	247.7	61.8	234.0	67.7	219.6	74.3	204.3	81.6
	10	254.7	62.3	240.7	68.2	225.9	74.8	210.3	82.1

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

Cooling Performance AC Fans Extra Quiet

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC022DX-06AKK0	5	231.8	57.0	219.7	62.5	207.0	68.6	193.6	75.4
	6	239.1	57.3	226.7	62.8	213.7	68.9	199.9	75.7
	7	246.5	57.6	233.8	63.1	220.4	69.2	206.3	76.0
	8	254.0	57.9	241.0	63.4	227.3	69.5	212.8	76.3
	9	261.7	58.3	248.3	63.8	234.2	69.9	219.3	76.6
	10	269.4	58.6	255.7	64.1	241.3	70.2	226.0	77.0
DCC024DX-06BKL0	5	259.8	67.2	246.2	73.4	231.6	80.2	216.1	87.7
	6	267.9	67.6	253.9	73.8	238.9	80.6	222.9	88.1
	7	276.0	68.0	261.6	74.1	246.3	81.0	229.9	88.5
	8	284.3	68.4	269.5	74.5	253.8	81.4	236.9	88.9
	9	292.8	68.8	277.6	74.9	261.4	81.8	244.1	89.3
	10	301.3	69.2	285.7	75.4	269.1	82.2	251.4	89.7
DCC025DX-08BKL0	5	267.2	66.2	253.8	72.1	239.5	78.7	224.3	86.0
	6	275.6	66.5	261.9	72.4	247.2	79.0	231.5	86.2
	7	284.2	66.8	270.1	72.7	255.0	79.3	239.0	86.5
	8	292.9	67.1	278.5	73.0	263.0	79.6	246.5	86.8
	9	301.7	67.4	286.9	73.3	271.1	79.9	254.2	87.1
	10	310.8	67.7	295.6	73.6	279.3	80.2	261.9	87.5
DCC027DX-06BLL0	5	285.2	77.3	270.3	84.2	254.1	91.7	236.7	99.9
	6	294.0	77.8	278.6	84.6	262.0	92.2	244.1	100.4
	7	302.9	78.2	287.1	85.1	270.0	92.6	251.6	100.9
	8	311.9	78.6	295.6	85.5	278.1	93.1	259.2	101.4
	9	321.0	79.1	304.3	86.0	286.3	93.6	266.9	101.9
	10	330.3	79.6	313.2	86.5	294.7	94.1	274.8	102.4
DCC028DX-08BLL0	5	293.9	75.6	279.5	82.2	263.8	89.4	246.8	97.4
	6	303.2	75.9	288.3	82.5	272.2	89.8	254.7	97.7
	7	312.5	76.3	297.3	82.9	280.7	90.1	262.7	98.1
	8	322.0	76.6	306.4	83.2	289.3	90.5	270.9	98.5
	9	331.7	76.9	315.6	83.5	298.2	90.8	279.3	98.8
	10	341.6	77.3	325.1	83.9	307.1	91.2	287.7	99.2
DCC030DX-06BLM0	5	308.5	84.8	291.8	92.3	273.9	100.4	254.8	109.4
	6	317.8	85.3	300.6	92.8	282.3	101.0	262.6	110.0
	7	327.2	85.9	309.6	93.4	290.7	101.7	270.5	110.7
	8	336.8	86.5	318.7	94.0	299.3	102.3	278.5	111.3
	9	346.5	87.1	328.0	94.7	308.0	102.9	286.7	112.0
	10	356.4	87.7	337.3	95.3	316.8	103.6	295.0	112.6
DCC031DX-08BLM0	5	319.1	82.3	303.0	89.5	285.5	97.3	266.8	106.0
	6	329.0	82.7	312.4	89.9	294.5	97.8	275.3	106.4
	7	339.1	83.1	322.0	90.4	303.6	98.3	283.8	106.9
	8	349.3	83.6	331.8	90.8	312.9	98.7	292.6	107.4
	9	359.7	84.0	341.7	91.3	322.3	99.2	301.4	107.9
	10	370.2	84.5	351.7	91.8	331.8	99.7	310.4	108.4
DCC032DX-06BMM0	5	328.4	92.1	310.3	100.2	291.1	109.0	270.6	118.8
	6	338.1	92.8	319.6	100.9	299.8	109.8	278.7	119.5
	7	348.1	93.5	329.0	101.6	308.6	110.5	286.9	120.3
	8	358.1	94.2	338.5	102.4	317.6	111.3	295.3	121.0
	9	368.3	94.9	348.1	103.1	326.6	112.0	303.8	121.8
	10	378.6	95.6	357.9	103.9	335.8	112.8	312.4	122.6
DCC033DX-08BMM0	5	340.7	88.8	323.2	96.6	304.4	105.1	284.3	114.5
	6	351.1	89.3	333.1	97.2	313.8	105.7	293.2	115.0
	7	361.7	89.9	343.2	97.8	323.4	106.3	302.1	115.6
	8	372.5	90.4	353.5	98.3	333.1	106.9	311.3	116.2
	9	383.5	91.0	363.9	98.9	343.0	107.5	320.6	116.9
	10	394.6	91.5	374.5	99.5	353.0	108.1	330.0	117.5

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Cooling Performance AC Fans Extra Quiet

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC036DX-08BMS0	5	384.6	103.7	364.0	112.8	341.9	122.8	318.2	133.8
	6	396.3	104.3	375.2	113.5	352.4	123.5	328.1	134.5
	7	408.2	105.0	386.5	114.2	363.1	124.2	338.1	135.2
	8	420.3	105.6	398.0	114.9	374.0	124.9	348.3	135.9
	9	432.6	106.3	409.6	115.6	385.0	125.7	358.6	136.7
	10	445.0	107.0	421.4	116.3	396.2	126.4	369.1	137.4
DCC038DX-10BMS0	5	394.5	101.4	374.5	110.3	352.9	120.0	329.7	130.6
	6	406.8	101.9	386.2	110.8	364.0	120.5	340.1	131.2
	7	419.2	102.4	398.1	111.4	375.3	121.1	350.8	131.7
	8	431.9	103.0	410.2	111.9	386.8	121.6	361.6	132.3
	9	444.8	103.5	422.5	112.5	398.4	122.2	372.6	132.9
	10	457.8	104.0	435.0	113.0	410.3	122.8	383.8	133.5
DCC039DX-08BSS0	5	421.5	118.2	398.6	128.7	373.9	140.2	347.3	152.8
	6	434.3	118.9	410.7	129.4	385.3	141.0	358.0	153.6
	7	447.2	119.7	423.0	130.2	396.9	141.8	368.8	154.5
	8	460.4	120.4	435.5	131.0	408.6	142.6	379.8	155.3
	9	473.7	121.2	448.1	131.8	420.6	143.4	391.0	156.1
	10	487.2	122.0	460.9	132.6	432.7	144.3	402.4	157.0
DCC042DX-12BSS0	5	441.4	113.7	419.5	123.6	395.8	134.4	370.2	146.4
	6	455.2	114.2	432.8	124.1	408.4	135.0	382.0	146.9
	7	469.2	114.6	446.2	124.6	421.2	135.5	394.1	147.5
	8	483.5	115.1	459.9	125.1	434.2	136.0	406.4	148.0
	9	498.1	115.6	473.8	125.6	447.4	136.6	418.9	148.6
	10	512.8	116.2	487.9	126.1	460.9	137.1	431.6	149.2
DCC043DX-08BST0	5	454.0	130.9	428.1	142.4	400.5	155.1	370.9	169.0
	6	467.2	131.8	440.7	143.4	412.4	156.1	382.1	170.0
	7	480.6	132.8	453.5	144.4	424.4	157.1	393.4	171.0
	8	494.2	133.7	466.4	145.4	436.6	158.1	404.8	172.1
	9	508.1	134.7	479.5	146.4	449.0	159.2	416.4	173.2
	10	522.1	135.7	492.8	147.4	461.5	160.2	428.2	174.3
DCC045DX-12BST0	5	477.4	124.5	452.8	135.4	426.4	147.3	398.0	160.4
	6	492.2	125.1	467.0	136.0	439.8	148.0	410.6	161.1
	7	507.3	125.8	481.4	136.7	453.4	148.7	423.4	161.8
	8	522.6	126.4	495.9	137.4	467.2	149.4	436.4	162.5
	9	538.1	127.1	510.8	138.1	481.3	150.1	449.6	163.3
	10	553.9	127.8	525.8	138.8	495.6	150.9	463.1	164.1
DCC046DX-10BTT0	5	498.2	137.9	470.7	150.1	441.4	163.4	410.1	178.0
	6	512.7	138.9	484.6	151.1	454.5	164.4	422.5	179.0
	7	527.5	139.8	498.7	152.0	467.9	165.4	435.0	180.0
	8	542.6	140.7	513.0	153.0	481.4	166.4	447.8	181.1
	9	558.0	141.7	527.6	154.0	495.2	167.4	460.7	182.1
	10	573.6	142.7	542.4	155.1	509.2	168.5	473.8	183.2
DCC048DX-12BTT0	5	508.2	135.1	481.4	147.0	452.7	160.0	422.0	174.2
	6	523.8	135.9	496.2	147.8	466.7	160.8	435.2	175.1
	7	539.6	136.7	511.3	148.7	481.0	161.7	448.6	175.9
	8	555.7	137.5	526.6	149.5	495.4	162.6	462.1	176.9
	9	572.0	138.4	542.1	150.4	510.1	163.5	475.9	177.8
	10	588.6	139.2	557.9	151.3	525.0	164.4	490.0	178.7
DCC051DX-10BVV0	5	549.6	156.4	518.1	172.8	485.0	191.3	450.0	212.1
	6	565.7	157.4	533.3	174.0	499.3	192.5	463.3	213.4
	7	582.0	158.6	548.8	175.2	513.9	193.8	476.9	214.6
	8	598.5	159.7	564.5	176.4	528.7	195.0	490.8	215.9
	9	615.3	160.9	580.4	177.6	543.7	196.3	504.8	217.3
	10	632.3	162.1	596.5	178.8	558.9	197.6	519.1	218.6

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Cooling Performance EC Fans

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC011SR-04AK00	5	116.0	26.7	110.5	29.5	104.5	32.6	98.3	36.0
	6	119.7	26.8	114.0	29.6	108.0	32.7	101.5	36.1
	7	123.6	27.0	117.7	29.8	111.4	32.8	104.9	36.2
	8	127.4	27.1	121.4	29.9	115.0	33.0	108.3	36.4
	9	131.3	27.3	125.2	30.1	118.6	33.1	111.7	36.5
	10	135.4	27.5	129.0	30.2	122.3	33.3	115.2	36.7
DCC014SR-04AL00	5	146.5	36.7	139.6	40.1	132.1	43.8	124.1	47.9
	6	151.2	36.9	144.1	40.3	136.4	44.0	128.2	48.1
	7	155.9	37.0	148.7	40.4	140.8	44.2	132.3	48.3
	8	160.8	37.2	153.4	40.6	145.3	44.4	136.5	48.5
	9	165.7	37.4	158.1	40.8	149.8	44.6	140.9	48.7
	10	170.7	37.6	162.9	41.0	154.4	44.8	145.2	48.9
DCC017SR-04AM00	5	171.6	43.6	163.2	47.6	154.3	51.9	144.8	56.7
	6	177.0	43.9	168.4	47.9	159.2	52.2	149.4	57.0
	7	182.5	44.1	173.7	48.2	164.2	52.5	154.2	57.3
	8	188.1	44.4	179.0	48.5	169.3	52.8	159.0	57.6
	9	193.8	44.7	184.5	48.8	174.5	53.2	163.9	58.0
	10	199.6	45.0	190.0	49.1	179.8	53.5	168.9	58.3
DCC021SR-04BS00	5	214.2	58.4	203.6	63.7	192.2	69.5	179.9	75.9
	6	220.9	58.7	210.0	64.0	198.3	69.8	185.7	76.2
	7	227.7	59.1	216.6	64.4	204.6	70.2	191.6	76.6
	8	234.6	59.4	223.2	64.8	210.9	70.6	197.6	77.0
	9	241.7	59.8	230.0	65.2	217.3	71.0	203.7	77.4
	10	248.9	60.2	236.8	65.5	223.9	71.4	209.9	77.8
DCC023SR-04BT00	5	249.1	70.8	236.2	77.1	222.4	83.9	207.0	91.3
	6	256.8	71.3	243.5	77.6	229.3	84.5	213.4	91.8
	7	264.6	71.9	250.9	78.2	236.3	85.1	219.8	92.3
	8	272.6	72.4	258.5	78.8	243.2	85.6	226.3	92.9
	9	280.6	73.0	266.2	79.4	250.3	86.1	232.9	93.4
	10	288.8	73.6	274.0	79.9	257.5	86.7	239.6	94.0
DCC024SR-06BT00	5	256.8	66.4	244.0	72.5	230.3	79.1	215.7	86.4
	6	264.9	66.8	251.7	72.9	237.6	79.5	222.6	86.8
	7	273.1	67.2	259.6	73.4	245.1	80.0	229.7	87.3
	8	281.5	67.7	267.5	73.8	252.7	80.5	236.9	87.8
	9	290.0	68.1	275.7	74.3	260.4	80.9	244.2	88.3
	10	298.6	68.5	283.9	74.7	268.3	81.4	251.6	88.7

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Cooling Performance EC Fans

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC011DR-04ACC0	5	117.1	26.7	111.5	29.4	105.5	32.5	99.2	35.9
	6	120.8	26.8	115.1	29.6	108.9	32.6	102.5	36.0
	7	124.8	27.0	118.8	29.7	112.5	32.8	105.8	36.1
	8	128.5	27.1	122.5	29.9	116.1	32.9	109.3	36.3
	9	132.5	27.3	126.3	30.0	119.7	33.0	112.7	36.4
	10	136.6	27.5	130.2	30.2	123.4	33.2	116.3	36.6
DCC013DR-04ACD0	5	133.2	31.6	126.9	34.7	120.1	38.1	112.8	41.8
	6	137.5	31.8	131.0	34.8	124.0	38.2	116.5	42.0
	7	141.8	31.9	135.1	35.0	128.0	38.4	120.3	42.1
	8	146.2	32.1	139.4	35.2	132.1	38.6	124.2	42.3
	9	150.8	32.3	143.7	35.4	136.2	38.7	128.2	42.5
	10	155.3	32.5	148.1	35.5	140.4	38.9	132.2	42.6
DCC014DR-04ADD0	5	147.1	36.5	140.3	39.9	132.8	43.6	124.8	47.6
	6	151.8	36.7	144.8	40.0	137.2	43.8	128.9	47.8
	7	156.6	36.9	149.4	40.2	141.6	44.0	133.1	48.0
	8	161.5	37.0	154.1	40.4	146.0	44.1	137.3	48.2
	9	166.4	37.2	158.9	40.6	150.6	44.3	141.7	48.4
	10	171.5	37.4	163.7	40.8	155.2	44.5	146.1	48.6
DCC015DR-04ADF0	5	160.3	40.1	152.6	43.8	144.3	47.9	135.4	52.3
	6	165.4	40.4	157.5	44.1	149.0	48.1	139.8	52.5
	7	170.6	40.6	162.4	44.3	153.7	48.3	144.3	52.8
	8	175.9	40.8	167.5	44.6	158.5	48.6	148.9	53.0
	9	181.2	41.1	172.7	44.8	163.5	48.9	153.6	53.3
	10	186.7	41.3	177.9	45.1	168.4	49.1	158.3	53.6
DCC016DR-04AJJ0	5	166.6	42.0	158.3	46.0	149.5	50.4	140.3	55.3
	6	172.0	42.2	163.5	46.3	154.5	50.7	145.0	55.6
	7	177.5	42.5	168.8	46.5	159.6	50.9	149.9	55.8
	8	183.1	42.7	174.2	46.7	164.8	51.2	154.7	56.0
	9	188.8	42.9	179.7	47.0	170.0	51.4	159.8	56.3
	10	194.6	43.2	185.3	47.2	175.4	51.7	164.8	56.6
DCC018DR-04BJK0	5	193.9	50.4	184.2	55.4	173.9	60.9	163.1	67.0
	6	200.1	50.7	190.1	55.7	179.6	61.2	168.4	67.3
	7	206.3	51.1	196.1	56.0	185.3	61.5	173.9	67.6
	8	212.7	51.4	202.2	56.4	191.1	61.9	179.4	67.9
	9	219.1	51.7	208.4	56.7	197.1	62.2	185.1	68.3
	10	225.7	52.1	214.7	57.1	203.1	62.5	190.8	68.6
DCC019DR-04AFK0	5	200.4	51.5	190.3	56.5	179.6	61.9	168.2	67.9
	6	206.7	51.9	196.4	56.8	185.4	62.3	173.7	68.3
	7	213.2	52.2	202.5	57.2	191.2	62.6	179.3	68.7
	8	219.7	52.6	208.8	57.6	197.2	63.0	184.9	69.0
	9	226.3	53.0	215.2	58.0	203.3	63.4	190.7	69.4
	10	233.1	53.4	221.6	58.3	209.5	63.8	196.5	69.8
DCC020DR-06AFK0	5	205.6	48.6	195.5	53.4	184.8	58.7	173.5	64.5
	6	212.2	48.9	201.8	53.7	190.8	59.0	179.2	64.8
	7	218.9	49.2	208.2	54.0	197.0	59.3	185.1	65.1
	8	225.7	49.5	214.8	54.3	203.3	59.6	191.0	65.4
	9	232.6	49.8	221.5	54.6	209.6	59.9	197.1	65.7
	10	239.7	50.1	228.2	54.9	216.1	60.2	203.2	66.0
DCC021DR-04AKK0	5	225.3	59.1	213.8	65.0	201.7	71.6	188.9	78.8
	6	232.3	59.5	220.6	65.4	208.2	72.0	195.1	79.2
	7	239.5	60.0	227.5	65.9	214.8	72.4	201.3	79.7
	8	246.8	60.4	234.5	66.3	221.5	72.8	207.7	80.1
	9	254.3	60.9	241.6	66.8	228.3	73.3	214.1	80.5
	10	261.8	61.3	248.9	67.2	235.2	73.7	220.7	81.0

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Cooling Performance EC Fans

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC022DR-06AKK0	5	231.6	55.4	220.1	61.1	208.1	67.4	195.4	74.4
	6	239.0	55.8	227.2	61.4	214.9	67.7	201.8	74.7
	7	246.5	56.1	234.5	61.8	221.8	68.0	208.4	75.0
	8	254.1	56.5	241.8	62.1	228.8	68.4	215.1	75.3
	9	261.9	56.9	249.3	62.5	236.0	68.7	221.9	75.7
	10	269.8	57.2	256.9	62.8	243.2	69.1	228.8	76.0
DCC024DR-04BKL0	5	253.3	70.5	240.0	77.0	225.6	84.1	210.3	91.9
	6	261.2	71.0	247.4	77.5	232.6	84.6	216.9	92.4
	7	269.1	71.5	254.9	77.9	239.7	85.0	223.6	92.9
	8	277.0	72.0	262.5	78.4	247.0	85.6	230.4	93.4
	9	285.1	72.5	270.2	78.9	254.3	86.1	237.3	93.9
	10	293.4	73.0	278.1	79.5	261.7	86.6	244.3	94.5
DCC025DR-06BKL0	5	261.2	65.9	248.3	72.2	234.6	79.2	220.0	86.8
	6	269.4	66.3	256.2	72.6	242.2	79.6	227.2	87.2
	7	277.8	66.7	264.3	73.0	249.9	79.9	234.5	87.6
	8	286.3	67.1	272.5	73.4	257.7	80.4	241.9	88.0
	9	295.0	67.5	280.8	73.8	265.6	80.8	249.5	88.5
	10	303.8	67.9	289.3	74.2	273.7	81.2	257.2	88.9
DCC027DR-04BLL0	5	278.9	81.7	263.9	88.8	247.5	96.4	229.9	104.9
	6	287.5	82.3	271.9	89.3	255.0	97.0	236.9	105.4
	7	296.0	82.8	280.0	89.9	262.6	97.6	244.0	106.0
	8	304.6	83.4	288.1	90.4	270.4	98.1	251.3	106.6
	9	313.4	83.9	296.4	91.0	278.2	98.7	258.6	107.2
	10	322.2	84.5	304.8	91.5	286.1	99.3	266.0	107.8
DCC028DR-06BLL0	5	288.0	76.2	274.1	83.2	259.0	90.8	242.7	99.2
	6	297.0	76.7	282.7	83.6	267.3	91.3	250.6	99.7
	7	306.3	77.1	291.6	84.1	275.7	91.7	258.6	100.2
	8	315.6	77.6	300.6	84.5	284.3	92.2	266.7	100.7
	9	325.1	78.0	309.7	85.0	293.0	92.7	275.0	101.2
	10	334.8	78.5	319.0	85.5	301.9	93.2	283.4	101.7
DCC030DR-06BLM0	5	313.2	83.7	297.8	91.2	281.2	99.5	263.3	108.6
	6	323.0	84.2	307.1	91.8	290.1	100.1	271.7	109.2
	7	333.0	84.8	316.7	92.4	299.1	100.7	280.3	109.8
	8	343.1	85.4	326.3	93.0	308.3	101.3	289.0	110.4
	9	353.4	85.9	336.2	93.6	317.7	101.9	297.9	111.1
	10	363.8	86.5	346.2	94.2	327.2	102.5	306.9	111.7
DCC031DR-08BLM0	5	319.2	80.3	303.9	87.7	287.4	95.8	269.7	104.6
	6	329.3	80.7	313.5	88.2	296.6	96.3	278.4	105.1
	7	339.6	81.2	323.4	88.7	306.0	96.8	287.3	105.6
	8	350.0	81.7	333.4	89.1	315.5	97.3	296.4	106.2
	9	360.6	82.2	343.6	89.6	325.3	97.8	305.6	106.7
	10	371.4	82.6	353.9	90.1	335.1	98.3	315.0	107.2
DCC032DR-06BMM0	5	335.0	91.0	318.3	99.1	300.5	108.1	281.4	117.9
	6	345.4	91.6	328.2	99.8	309.8	108.8	290.2	118.6
	7	355.9	92.3	338.3	100.5	319.4	109.5	299.3	119.3
	8	366.7	93.0	348.5	101.2	329.1	110.2	308.5	120.0
	9	377.6	93.7	358.9	101.9	339.0	110.9	317.8	120.8
	10	388.6	94.4	369.5	102.7	349.1	111.7	327.3	121.5
DCC033DR-08BMM0	5	341.8	87.1	325.2	95.1	307.4	103.8	288.5	113.3
	6	352.5	87.6	335.4	95.7	317.2	104.4	297.7	113.9
	7	363.4	88.2	345.9	96.3	327.2	105.0	307.1	114.5
	8	374.5	88.8	356.5	96.9	337.3	105.6	316.7	115.2
	9	385.8	89.3	367.3	97.5	347.5	106.2	326.5	115.8
	10	397.3	89.9	378.3	98.1	358.0	106.8	336.4	116.5

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Cooling Performance EC Fans

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC036DR-06BMS0	5	380.3	107.2	360.2	116.5	338.6	126.7	315.5	138.0
	6	392.0	107.9	371.3	117.3	349.1	127.5	325.3	138.8
	7	403.8	108.7	382.5	118.1	359.7	128.3	335.3	139.6
	8	415.8	109.4	393.9	118.8	370.5	129.1	345.4	140.4
	9	427.9	110.2	405.5	119.6	381.4	129.9	355.7	141.2
	10	440.2	110.9	417.2	120.4	392.5	130.8	366.1	142.1
DCC038DR-10BMS0	5	394.5	99.0	375.4	108.1	354.9	118.1	332.9	129.0
	6	407.0	99.5	387.4	108.7	366.3	118.7	343.7	129.6
	7	419.7	100.1	399.6	109.3	378.0	119.3	354.8	130.3
	8	432.6	100.6	412.0	109.9	389.8	119.9	366.0	130.9
	9	445.8	101.2	424.6	110.4	401.8	120.5	377.4	131.5
	10	459.2	101.8	437.5	111.1	414.1	121.1	389.1	132.1
DCC039DR-06BSS0	5	418.7	122.9	396.0	133.5	371.3	145.0	344.7	157.7
	6	431.5	123.8	407.9	134.3	382.5	145.9	355.2	158.5
	7	444.3	124.6	420.1	135.1	393.9	146.7	365.9	159.4
	8	457.2	125.4	432.3	136.0	405.5	147.6	376.7	160.3
	9	470.4	126.2	444.8	136.8	417.3	148.4	387.7	161.2
	10	483.7	127.0	457.4	137.7	429.2	149.3	398.9	162.1
DCC042DR-10BSS0	5	435.4	112.9	414.4	123.3	391.8	134.7	367.3	147.2
	6	449.1	113.5	427.6	123.9	404.4	135.3	379.2	147.8
	7	463.1	114.1	441.1	124.5	417.2	136.0	391.4	148.5
	8	477.3	114.8	454.7	125.2	430.2	136.6	403.8	149.2
	9	491.8	115.4	468.6	125.8	443.5	137.3	416.3	149.9
	10	506.5	116.1	482.7	126.5	457.0	138.0	429.2	150.6
DCC043DR-08BST0	5	464.4	129.2	440.8	140.7	415.5	153.4	387.8	167.2
	6	478.8	130.1	454.6	141.7	428.6	154.4	399.9	168.1
	7	493.5	131.0	468.6	142.6	441.8	155.3	412.3	169.0
	8	508.4	131.9	482.9	143.6	455.2	156.2	424.8	169.9
	9	523.5	132.8	497.4	144.5	468.8	157.2	437.6	170.9
	10	539.0	133.8	512.0	145.5	482.5	158.1	450.6	171.8
DCC045DR-10BST0	5	472.2	124.6	448.8	136.0	423.6	148.4	396.6	162.1
	6	487.0	125.4	463.0	136.8	437.1	149.2	409.4	162.9
	7	502.1	126.2	477.4	137.6	450.9	150.1	422.4	163.8
	8	517.4	127.0	492.1	138.4	464.8	150.9	435.6	164.6
	9	533.1	127.8	507.0	139.3	479.0	151.8	449.1	165.5
	10	548.9	128.6	522.2	140.1	493.5	152.7	462.7	166.4
DCC046DR-08BTT0	5	495.0	141.3	469.3	153.9	442.0	167.6	411.7	182.4
	6	510.2	142.4	483.9	155.0	455.8	168.8	424.3	183.4
	7	525.7	143.5	498.6	156.1	469.7	169.9	437.1	184.4
	8	541.4	144.6	513.7	157.3	483.6	170.9	450.0	185.5
	9	557.4	145.7	528.9	158.4	497.6	172.0	463.2	186.6
	10	573.7	146.8	544.4	159.6	511.8	173.1	476.5	187.7
DCC048DR-10BTT0	5	503.8	136.1	478.4	148.5	451.1	161.9	422.1	176.7
	6	519.5	137.1	493.3	149.4	465.4	162.9	435.6	177.7
	7	535.4	138.0	508.6	150.4	479.9	163.9	449.2	178.8
	8	551.7	139.0	524.1	151.4	494.6	164.9	463.1	179.8
	9	568.2	140.0	539.8	152.4	509.5	166.0	477.3	180.9
	10	584.9	140.9	555.8	153.5	524.8	167.1	491.6	181.9
DCC051DR-08BVV0	5	551.6	160.9	520.3	177.2	487.4	195.5	452.6	216.1
	6	567.7	162.0	535.6	178.3	501.8	196.7	466.0	217.3
	7	584.1	163.1	551.1	179.5	516.5	197.9	479.7	218.6
	8	600.7	164.3	566.9	180.7	531.3	199.1	493.6	219.9
	9	617.6	165.4	582.9	181.9	546.4	200.4	507.8	221.2
	10	634.7	166.6	599.1	183.1	561.7	201.7	522.1	222.5

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Cooling Performance EC Fans Extra Quiet

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC011SX-04AK00	5	116.1	26.7	110.2	29.4	104.0	32.5	97.4	35.8
	6	119.8	26.9	113.7	29.6	107.3	32.6	100.6	35.9
	7	123.5	27.0	117.3	29.7	110.8	32.7	103.8	36.1
	8	127.3	27.1	120.9	29.8	114.2	32.8	107.1	36.2
	9	131.2	27.3	124.7	30.0	117.8	33.0	110.5	36.3
	10	135.1	27.5	128.4	30.1	121.4	33.1	113.9	36.4
DCC014SX-04AL00	5	145.2	36.5	137.8	39.9	129.8	43.6	121.2	47.6
	6	149.7	36.7	142.1	40.1	133.9	43.8	125.1	47.8
	7	154.3	36.9	146.5	40.3	138.1	44.0	129.0	48.0
	8	159.0	37.1	151.0	40.5	142.4	44.2	133.0	48.2
	9	163.8	37.3	155.6	40.7	146.7	44.4	137.1	48.5
	10	168.6	37.5	160.2	40.9	151.0	44.6	141.2	48.7
DCC017SX-04AM00	5	168.4	43.5	159.5	47.5	149.9	51.8	139.7	56.5
	6	173.6	43.8	164.4	47.8	154.5	52.1	144.0	56.9
	7	178.8	44.1	169.3	48.1	159.2	52.4	148.4	57.2
	8	184.1	44.4	174.4	48.4	163.9	52.8	152.8	57.5
	9	189.5	44.7	179.5	48.7	168.8	53.1	157.4	57.9
	10	194.9	45.0	184.7	49.1	173.7	53.4	161.9	58.2
DCC021SX-06BS00	5	217.7	54.9	206.6	60.0	194.6	65.5	181.6	71.6
	6	224.5	55.2	213.1	60.2	200.7	65.8	187.4	71.9
	7	231.4	55.5	219.7	60.5	206.9	66.1	193.2	72.2
	8	238.4	55.7	226.3	60.8	213.3	66.4	199.2	72.5
	9	245.5	56.0	233.1	61.1	219.7	66.7	205.3	72.8
	10	252.7	56.3	240.0	61.4	226.2	67.0	211.4	73.2
DCC023SX-04BT00	5	235.6	72.2	221.3	78.7	206.1	85.7	189.9	93.6
	6	242.4	72.8	227.7	79.3	212.0	86.4	195.4	94.2
	7	249.3	73.5	234.1	80.0	218.0	87.1	200.9	94.9
	8	256.2	74.2	240.6	80.7	224.1	87.8	206.6	95.7
	9	263.2	74.9	247.2	81.4	230.2	88.6	212.3	96.4
	10	270.3	75.6	253.9	82.1	236.5	89.3	218.1	97.1
DCC024SX-06BT00	5	251.9	66.2	238.1	72.3	223.4	78.9	207.8	86.1
	6	259.5	66.7	245.4	72.7	230.3	79.4	214.2	86.6
	7	267.3	67.1	252.8	73.2	237.2	79.8	220.7	87.1
	8	275.2	67.6	260.2	73.7	244.3	80.3	227.3	87.6
	9	283.2	68.0	267.8	74.2	251.4	80.9	234.0	88.2
	10	291.3	68.5	275.5	74.7	258.7	81.4	240.8	88.7

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Cooling Performance EC Fans Extra Quiet

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC011DX-04ACC0	5	117.2	26.7	111.2	29.4	104.9	32.4	98.3	35.7
	6	120.9	26.8	114.8	29.5	108.3	32.5	101.5	35.8
	7	124.7	27.0	118.4	29.6	111.8	32.6	104.8	35.9
	8	128.5	27.1	122.1	29.8	115.3	32.8	108.1	36.1
	9	132.4	27.3	125.8	29.9	118.8	32.9	111.5	36.2
	10	136.4	27.4	129.6	30.1	122.5	33.0	114.9	36.3
DCC013DX-04ACD0	5	132.6	31.5	125.8	34.6	118.6	37.9	110.9	41.6
	6	136.7	31.7	129.8	34.7	122.4	38.0	114.5	41.7
	7	141.0	31.9	133.9	34.9	126.3	38.2	118.1	41.9
	8	145.3	32.0	138.0	35.1	130.2	38.4	121.8	42.1
	9	149.7	32.2	142.2	35.2	134.2	38.6	125.6	42.2
	10	154.1	32.4	146.4	35.4	138.2	38.7	129.4	42.4
DCC014DX-04ADD0	5	145.8	36.3	138.5	39.7	130.5	43.3	122.0	47.4
	6	150.4	36.5	142.9	39.9	134.7	43.5	125.8	47.6
	7	155.0	36.7	147.3	40.1	138.9	43.7	129.8	47.8
	8	159.7	36.9	151.8	40.2	143.1	43.9	133.8	48.0
	9	164.5	37.1	156.4	40.4	147.5	44.1	137.9	48.2
	10	169.4	37.3	161.0	40.6	151.9	44.3	142.1	48.4
DCC015DX-04ADF0	5	158.0	40.0	149.8	43.7	140.9	47.7	131.4	52.1
	6	162.9	40.2	154.4	43.9	145.3	47.9	135.5	52.3
	7	167.9	40.5	159.2	44.2	149.8	48.2	139.7	52.6
	8	172.9	40.7	164.0	44.4	154.3	48.5	144.0	52.9
	9	178.0	41.0	168.8	44.7	158.9	48.7	148.3	53.2
	10	183.2	41.2	173.8	45.0	163.6	49.0	152.7	53.4
DCC016DX-04AJJ0	5	163.7	41.9	154.8	45.9	145.5	50.3	135.6	55.2
	6	168.8	42.1	159.8	46.2	150.2	50.6	140.0	55.5
	7	174.1	42.4	164.8	46.4	154.9	50.8	144.5	55.7
	8	179.4	42.6	169.9	46.7	159.8	51.1	149.1	56.0
	9	184.9	42.9	175.1	46.9	164.7	51.4	153.7	56.3
	10	190.4	43.1	180.3	47.2	169.7	51.7	158.3	56.6
DCC018DX-04BJK0	5	188.0	50.8	177.5	55.9	166.4	61.5	154.7	67.7
	6	193.7	51.2	182.9	56.2	171.6	61.8	159.5	68.0
	7	199.5	51.5	188.5	56.6	176.8	62.2	164.4	68.4
	8	205.4	51.9	194.1	57.0	182.1	62.6	169.4	68.8
	9	211.4	52.3	199.8	57.4	187.5	63.0	174.5	69.2
	10	217.5	52.7	205.5	57.8	192.9	63.4	179.6	69.6
DCC019DX-04AFK0	5	193.9	51.9	183.0	57.0	171.4	62.5	159.2	68.6
	6	199.8	52.3	188.6	57.4	176.7	62.9	164.1	69.1
	7	205.8	52.7	194.2	57.8	182.0	63.4	169.0	69.5
	8	211.8	53.1	199.9	58.2	187.4	63.8	174.1	69.9
	9	217.9	53.6	205.7	58.7	192.8	64.2	179.2	70.4
	10	224.1	54.0	211.6	59.1	198.4	64.7	184.4	70.8
DCC020DX-06AFK0	5	204.1	48.5	193.5	53.3	182.2	58.5	170.2	64.2
	6	210.5	48.8	199.6	53.6	188.0	58.8	175.7	64.5
	7	217.0	49.1	205.8	53.9	193.9	59.1	181.3	64.8
	8	223.6	49.4	212.1	54.1	199.9	59.4	186.9	65.1
	9	230.3	49.7	218.5	54.4	206.0	59.7	192.7	65.4
	10	237.2	50.0	225.1	54.8	212.2	60.0	198.5	65.7
DCC021DX-04AKK0	5	215.8	60.0	203.3	66.1	190.2	72.9	176.3	80.4
	6	222.3	60.5	209.4	66.6	195.9	73.4	181.6	80.9
	7	228.8	61.0	215.6	67.1	201.8	73.9	187.1	81.4
	8	235.4	61.5	221.9	67.7	207.7	74.5	192.6	81.9
	9	242.1	62.1	228.3	68.2	213.7	75.0	198.2	82.5
	10	248.9	62.6	234.7	68.8	219.7	75.6	203.9	83.1

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

Cooling Performance EC Fans Extra Quiet

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC022DX-06AKK0	5	228.6	55.2	216.5	60.9	203.6	67.2	190.1	74.1
	6	235.8	55.6	223.3	61.2	210.1	67.5	196.2	74.5
	7	243.0	55.9	230.2	61.6	216.7	67.8	202.4	74.8
	8	250.4	56.3	237.2	61.9	223.3	68.2	208.7	75.1
	9	257.8	56.7	244.3	62.3	230.1	68.6	215.1	75.5
	10	265.4	57.1	251.6	62.7	237.0	68.9	221.6	75.9
DCC024DX-06BKL0	5	255.8	65.9	241.9	72.2	227.2	79.2	211.4	86.9
	6	263.6	66.3	249.4	72.6	234.2	79.6	218.1	87.3
	7	271.6	66.7	257.0	73.1	241.4	80.0	224.8	87.7
	8	279.7	67.1	264.6	73.5	248.6	80.5	231.6	88.2
	9	287.8	67.6	272.4	73.9	256.0	80.9	238.5	88.7
	10	296.1	68.1	280.3	74.4	263.5	81.4	245.6	89.1
DCC025DX-08BKL0	5	264.1	63.4	250.6	69.4	236.1	76.1	220.7	83.5
	6	272.4	63.7	258.5	69.7	243.6	76.4	227.8	83.8
	7	280.8	64.0	266.5	70.1	251.3	76.8	235.0	84.2
	8	289.3	64.3	274.7	70.4	259.1	77.1	242.3	84.5
	9	298.0	64.7	283.0	70.7	266.9	77.4	249.8	84.9
	10	306.8	65.0	291.4	71.1	275.0	77.8	257.4	85.2
DCC027DX-06BLL0	5	280.5	76.4	265.2	83.4	248.7	91.1	231.0	99.5
	6	288.9	76.9	273.2	83.9	256.3	91.6	238.1	100.1
	7	297.6	77.4	281.4	84.4	264.0	92.1	245.4	100.6
	8	306.3	77.9	289.7	84.9	271.8	92.7	252.7	101.2
	9	315.2	78.4	298.1	85.5	279.8	93.2	260.1	101.7
	10	324.1	78.9	306.6	86.0	287.8	93.8	267.7	102.3
DCC028DX-08BLL0	5	290.3	73.1	275.6	79.8	259.6	87.1	242.4	95.2
	6	299.4	73.4	284.2	80.1	267.8	87.5	250.1	95.6
	7	308.5	73.8	293.0	80.5	276.1	87.9	257.9	96.1
	8	317.9	74.2	301.9	80.9	284.6	88.3	265.9	96.5
	9	327.3	74.5	310.9	81.3	293.2	88.7	274.0	96.9
	10	337.0	74.9	320.1	81.7	301.9	89.1	282.2	97.3
DCC030DX-06BLM0	5	302.7	84.2	285.7	91.9	267.5	100.3	248.1	109.5
	6	311.7	84.9	294.2	92.6	275.5	101.0	255.6	110.2
	7	320.8	85.5	302.9	93.2	283.7	101.6	263.2	110.9
	8	330.1	86.2	311.6	93.9	291.9	102.3	270.9	111.6
	9	339.4	86.8	320.5	94.6	300.2	103.0	278.7	112.3
	10	348.9	87.5	329.5	95.3	308.7	103.8	286.6	113.0
DCC031DX-08BLM0	5	314.7	80.0	298.3	87.4	280.6	95.4	261.7	104.2
	6	324.4	80.5	307.5	87.9	289.3	95.9	269.9	104.7
	7	334.2	81.0	316.9	88.4	298.2	96.4	278.2	105.3
	8	344.2	81.5	326.4	88.9	307.2	97.0	286.6	105.8
	9	354.3	82.0	336.0	89.4	316.3	97.5	295.2	106.4
	10	364.6	82.5	345.8	89.9	325.6	98.0	303.9	106.9
DCC032DX-06BMM0	5	321.7	91.9	303.4	100.2	283.8	109.3	263.0	119.3
	6	331.1	92.7	312.2	101.0	292.1	110.1	270.7	120.1
	7	340.7	93.5	321.3	101.8	300.6	110.9	278.6	121.0
	8	350.3	94.3	330.4	102.6	309.2	111.8	286.6	121.8
	9	360.1	95.1	339.6	103.5	317.8	112.6	294.7	122.7
	10	370.0	95.9	349.0	104.3	326.6	113.5	302.8	123.6
DCC033DX-08BMM0	5	335.6	86.9	317.8	94.8	298.8	103.5	278.5	113.0
	6	345.8	87.5	327.5	95.5	307.9	104.1	287.0	113.7
	7	356.2	88.1	337.3	96.1	317.2	104.8	295.7	114.3
	8	366.7	88.7	347.3	96.7	326.6	105.4	304.5	115.0
	9	377.3	89.3	357.4	97.4	336.2	106.1	313.5	115.7
	10	388.1	89.9	367.7	98.0	345.9	106.8	322.6	116.4

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Cooling Performance EC Fans Extra Quiet

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCC036DX-08BMS0	5	377.8	102.5	356.9	111.9	334.4	122.1	310.4	133.3
	6	389.2	103.2	367.7	112.6	344.6	122.9	319.9	134.1
	7	400.8	103.9	378.6	113.4	354.9	123.6	329.6	134.9
	8	412.5	104.7	389.7	114.1	365.3	124.4	339.3	135.7
	9	424.3	105.4	400.9	114.9	375.9	125.2	349.2	136.5
	10	436.3	106.2	412.3	115.7	386.7	126.1	359.3	137.4
DCC038DX-10BMS0	5	389.1	98.6	368.7	107.6	346.8	117.5	323.3	128.3
	6	401.1	99.1	380.2	108.2	357.6	118.1	333.5	128.9
	7	413.3	99.7	391.8	108.8	368.6	118.7	343.8	129.6
	8	425.6	100.3	403.6	109.4	379.8	119.3	354.3	130.2
	9	438.2	100.9	415.5	110.0	391.1	120.0	364.9	130.9
	10	450.9	101.5	427.6	110.7	402.6	120.6	375.7	131.6
DCC039DX-08BSS0	5	413.4	117.7	389.9	128.5	364.8	140.3	337.8	153.2
	6	425.7	118.6	401.6	129.4	375.7	141.2	348.0	154.1
	7	438.2	119.4	413.4	130.2	386.9	142.1	358.4	155.1
	8	450.9	120.3	425.4	131.1	398.1	143.0	368.9	156.0
	9	463.7	121.1	437.6	132.0	409.6	143.9	379.6	156.9
	10	476.7	122.0	449.9	133.0	421.1	144.9	390.4	157.9
DCC042DX-12BSS0	5	435.9	109.8	413.7	119.9	389.6	131.0	363.6	143.2
	6	449.5	110.4	426.6	120.5	401.8	131.6	375.1	143.8
	7	463.2	110.9	439.8	121.1	414.3	132.2	386.9	144.4
	8	477.2	111.5	453.1	121.7	427.0	132.8	398.8	145.1
	9	491.4	112.1	466.7	122.3	439.9	133.4	411.0	145.7
	10	505.9	112.7	480.5	122.9	453.0	134.1	423.3	146.3
DCC043DX-08BST0	5	443.1	131.1	417.0	142.9	389.1	155.9	359.3	170.2
	6	456.1	132.1	429.2	144.0	400.5	157.0	369.9	171.3
	7	469.3	133.2	441.6	145.1	412.1	158.2	380.7	172.5
	8	482.6	134.3	454.2	146.3	423.9	159.4	391.7	173.7
	9	496.0	135.5	466.9	147.4	435.8	160.5	402.7	174.9
	10	509.6	136.6	479.7	148.6	447.8	161.8	413.9	176.1
DCC045DX-12BST0	5	470.8	121.1	445.8	132.3	418.9	144.4	390.1	157.8
	6	485.2	121.9	459.5	133.0	431.9	145.2	402.4	158.5
	7	499.9	122.6	473.5	133.8	445.2	146.0	414.8	159.4
	8	514.8	123.3	487.7	134.5	458.6	146.8	427.4	160.2
	9	530.0	124.1	502.1	135.3	472.2	147.6	440.2	161.0
	10	545.4	124.9	516.8	136.1	486.1	148.4	453.2	161.9
DCC046DX-10BTT0	5	487.7	136.7	460.0	149.1	430.5	162.7	399.0	177.7
	6	502.2	137.8	473.7	150.2	443.4	163.8	411.0	178.8
	7	516.9	138.8	487.6	151.3	456.4	165.0	423.2	180.0
	8	531.8	139.9	501.7	152.5	469.6	166.1	435.5	181.2
	9	546.9	141.0	516.0	153.6	483.0	167.3	448.0	182.4
	10	562.2	142.1	530.4	154.8	496.6	168.5	460.7	183.6
DCC048DX-12BTT0	5	500.5	132.2	473.3	144.4	444.2	157.6	413.2	172.1
	6	515.6	133.1	487.7	145.3	457.8	158.5	425.9	173.1
	7	531.1	134.0	502.3	146.2	471.6	159.5	438.8	174.1
	8	546.7	134.9	517.2	147.2	485.6	160.5	451.9	175.1
	9	562.6	135.9	532.2	148.2	499.8	161.5	465.2	176.1
	10	578.7	136.8	547.5	149.1	514.2	162.5	478.7	177.1
DCC051DX-10BVV0	5	537.8	157.2	505.9	174.3	472.4	193.4	436.8	214.9
	6	553.3	158.4	520.5	175.6	486.1	194.8	449.6	216.4
	7	568.9	159.7	535.4	176.9	500.0	196.2	462.5	217.8
	8	584.9	161.0	550.4	178.3	514.1	197.7	475.7	219.3
	9	601.0	162.4	565.7	179.7	528.5	199.1	489.0	220.8
	10	617.3	163.7	581.1	181.1	543.0	200.6	502.6	222.4

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Mechanical Data Regular Quiet

			DCC011SR-04AK00	DCC014SR-04AL00	DCC017SR-04AM00
Number of Refrigeration Circuits			1	1	1
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	111.4	140.8	164.2
Nominal Input - Mechanical		kW	32.8	44.2	52.5
EER	2)		3.39	3.19	3.13
ESEER			4.52	4.24	4.19
SEER			4.40	4.13	4.08
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	113.1	143.2	166.2
Nominal Input - Mechanical		kW	35.0	45.9	53.6
EER			3.2	3.1	3.1
ESEER			4.03	3.87	3.88
SEER			3.95	3.80	3.80
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	55-100	55-100	55-100
Minimum Turndown Ratio			0.53	0.53	0.54
Dimensions (H x W x L)		mm	2405 x 2200 x 2554	2405 x 2200 x 2554	2405 x 2200 x 2554
Mass					
Machine	3)	kg	1530	1640	1675
Operating		kg	1555	1670	1705
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	8.40	8.40	8.40
Nominal Airflow - High Airflow EC Fans		m³/s	N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	23.8	23.8	23.8
Nominal Airflow - AC Fans		m³/s	22.2	22.2	22.2
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans		rpm	N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	908	908	908
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	45	46	47
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	4)	l	1015	1298	1525
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.
(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

Mechanical Data Regular Quiet Continued

			DCC021SR-04BS00	DCC023SR-04BT00	DCC024SR-06BT00
Number of Refrigeration Circuits			1	1	1
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	204.6	236.3	245.1
Nominal Input - Mechanical		kW	70.2	85.1	80.0
EER	2)		2.91	2.78	3.06
ESEER			4.26	4.16	4.40
SEER			4.11	4.01	4.25
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	204.5	233.6	248.0
Nominal Input - Mechanical		kW	70.2	84.4	81.5
EER			2.9	2.8	3.0
ESEER			3.97	4.08	4.01
SEER			3.86	3.81	3.91
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	40-70-100	40-75-100	35-70-100
Minimum Turndown Ratio			0.38	0.39	0.37
Dimensions (H x W x L)		mm	2405 x 2200 x 2554	2405 x 2200 x 2554	2415 x 2200 x 3690
Mass					
Machine	3)	kg	1860	1925	2405
Operating		kg	1900	1965	2455
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	8.40	8.40	12.60
Nominal Airflow - High Airflow EC Fans		m³/s	N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	23.8	23.8	35.7
Nominal Airflow - AC Fans		m³/s	22.2	22.2	33.3
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	6
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans		rpm	N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	908	908	908
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 Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	47	58	71
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	4)	l	1319	1557	1550
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.
(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

Mechanical Data Regular Quiet Continued

			DCC011DR-04ACC0	DCC013DR-04ACD0	DCC014DR-04ADD0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	112.5	128.0	141.6
Nominal Input - Mechanical		kW	32.8	38.4	44.0
EER	2)		3.43	3.33	3.22
ESEER			4.38	4.44	4.03
SEER			4.28	4.32	3.94
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	114.1	130.1	144.0
Nominal Input - Mechanical		kW	34.9	40.3	45.7
EER			3.3	3.2	3.2
ESEER			4.10	4.17	3.89
SEER			4.01	4.07	3.81
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	50-100	45-100	50-100
Minimum Turndown Ratio			0.50	0.45	0.50
Dimensions (H x W x L)		Mm	2405 x 2200 x 2554	2405 x 2200 x 2554	2405 x 2200 x 2554
Mass					
Machine	3)	Kg	1555	1610	1655
Operating		Kg	1580	1635	1685
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	8.40	8.40	8.40
Nominal Airflow - High Airflow EC Fans		m³/s	N/A	N/A	N/A
Nominal Airflow - EC Fans		M³/s	23.8	23.8	23.8
Nominal Airflow - AC Fans		M³/s	22.2	22.2	22.2
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans		rpm	N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	908	908	908
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	25 + 25	25 + 25	25 + 25
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	4)	l	971	989	1225
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.
(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

Mechanical Data Regular Quiet Continued

			DCC015DR-04ADF0	DCC016DR-04AJJ0	DCC018DR-04BJK0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	153.7	159.6	185.3
Nominal Input - Mechanical		kW	48.3	50.9	61.5
EER	2)		3.18	3.14	3.01
ESEER			4.08	4.40	4.38
SEER			3.99	4.26	4.23
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	155.9	161.6	186.0
Nominal Input - Mechanical		kW	49.7	52.0	61.9
EER			3.1	3.1	3.0
ESEER			3.95	4.05	4.08
SEER			3.86	3.95	3.97
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	45-100	25-55-75-100	25-55-75-100
Minimum Turndown Ratio			0.47	0.27	0.23
Dimensions (H x W x L)		mm	2405 x 2200 x 2554	2405 x 2200 x 2554	2405 x 2200 x 2554
Mass					
Machine	3)	kg	1675	1820	1850
Operating		kg	1710	1850	1885
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	8.40	8.40	8.40
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	23.8	23.8	23.8
Nominal Airflow - AC Fans		m³/s	22.2	22.2	22.2
Sickle Bladed Fan			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	908	908	908
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 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7
Oil Type			Polyol Ester		
Refrigeration					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	25 + 26	25 + 26	27 + 27
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	4)	l	1242	741	742
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.
(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

Mechanical Data Regular Quiet Continued

			DCC019DR-04AFK0	DCC020DR-06AFK0	DCC021DR-04AKK0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	191.2	197.0	214.8
Nominal Input - Mechanical		kW	62.6	59.3	72.4
EER	2)		3.05	3.32	2.97
ESEER			4.07	4.37	4.29
SEER			3.96	4.27	4.15
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	191.8	200.0	213.9
Nominal Input - Mechanical		kW	63.0	62.0	72.1
EER			3.0	3.2	3.0
ESEER			3.98	4.08	4.08
SEER			3.88	3.99	3.96
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	45-75-100	45-75-100	30-55-80-100
Minimum Turndown Ratio			0.44	0.44	0.28
Dimensions (H x W x L)		mm	2405 x 2200 x 2554	2415 x 2200 x 3690	2405 x 2200 x 2554
Mass					
Machine	3)	kg	1790	2275	1860
Operating		kg	1825	2315	1895
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	8.40	12.60	8.40
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	23.8	35.7	23.8
Nominal Airflow - AC Fans		m³/s	22.2	33.3	22.2
Sickle Bladed Fan			Sickle Bladed Fan		
Quantity			4	6	4
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	908	908	908
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	26 + 27	38 + 38	26 + 27
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	4)	l	1453	1488	1024
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.
(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

Mechanical Data Regular Quiet Continued

			DCC022DR-06AKK0	DCC024DR-04BKL0	DCC025DR-06BKL0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	221.8	239.7	249.9
Nominal Input - Mechanical		kW	68.0	85.0	79.9
EER	2)		3.26	2.82	3.13
ESEER			4.57	4.21	4.50
SEER			4.43	4.06	4.35
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	225.1	237.6	252.4
Nominal Input - Mechanical		kW	70.1	84.8	81.3
EER			3.2	2.8	3.1
ESEER			4.17	4.04	4.14
SEER			4.07	3.91	4.03
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	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	0.24
Dimensions (H x W x L)		mm	2415 x 2200 x 3690	2405 x 2200 x 2554	2415 x 2200 x 3690
Mass					
Machine	3)	kg	2345	2005	2490
Operating		kg	2390	2060	2555
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	12.60	8.40	12.60
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	35.7	23.8	35.7
Nominal Airflow - AC Fans		m³/s	33.3	22.2	33.3
Sickle Bladed Fan			Sickle Bladed Fan		
Quantity			6	4	6
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	908	908	908
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	38 + 38	28 + 30	40 + 42
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	4)	l	1021	1029	1027
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.
(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

Mechanical Data Regular Quiet Continued

			DCC027DR-04BLL0	DCC028DR-06BLL0	DCC030DR-06BLM0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	262.6	275.7	299.1
Nominal Input - Mechanical		kW	97.6	91.7	100.7
EER	2)		2.69	3.00	2.97
ESEER			3.94	4.23	4.23
SEER			3.80	4.10	4.10
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	259.3	277.4	299.6
Nominal Input - Mechanical		kW	97.3	92.4	100.9
EER			2.7	3.0	3.0
ESEER			3.83	3.96	3.98
SEER			3.71	3.86	3.88
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	30-60-80-100	25-55-75-100	25-55-75-100
Minimum Turndown Ratio			0.29	0.27	0.26
Dimensions (H x W x L)		mm	2405 x 2200 x 2554	2415 x 2200 x 3690	2415 x 2200 x 3690
Mass					
Machine	3)	kg	2105	2600	2645
Operating		kg	2160	2665	2715
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	8.40	12.60	12.60
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	23.8	35.7	35.7
Nominal Airflow - AC Fans		m³/s	22.2	33.3	33.3
Sickle Bladed Fan			Sickle Bladed Fan		
Quantity			4	6	6
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	908	908	908
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	29 + 30	40 + 42	41 + 43
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	4)	l	1284	1295	1312
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.
(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

Mechanical Data Regular Quiet Continued

			DCC031DR-08BLM0	DCC032DR-06BMM0	DCC033DR-08BMM0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	306.0	319.4	327.2
Nominal Input - Mechanical		kW	96.8	109.5	105.0
EER	2)		3.16	2.92	3.12
ESEER			4.40	4.14	4.33
SEER			4.27	4.01	4.20
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	310.4	318.7	331.1
Nominal Input - Mechanical		kW	99.5	109.2	107.1
EER			3.1	2.9	3.1
ESEER			4.04	3.94	4.01
SEER			3.94	3.83	3.91
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	25-55-75-100	30-55-80-100	25-55-75-100
Minimum Turndown Ratio			0.25	0.28	0.27
Dimensions (H x W x L)		mm	2415 x 2200 x 4820	2415 x 2200 x 3690	2415 x 2200 x 4820
Mass					
Machine	3)	kg	3070	2670	3100
Operating		kg	3160	2740	3175
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	16.80	12.60	16.80
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	47.6	35.7	47.6
Nominal Airflow - AC Fans		m³/s	44.3	33.3	44.3
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			8	6	8
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans		rpm	N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	908	908	908
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	52 + 54	42 + 43	52 + 54
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	4)	l	1306	1527	1522
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.
(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

Mechanical Data Regular Quiet Continued

			DCC036DR-06BMS0	DCC038DR-10BMS0	DCC039DR-06BSS0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	359.7	378.0	393.9
Nominal Input - Mechanical		kW	128.3	119.3	146.7
EER	2)		2.80	3.17	2.69
ESEER			4.18	4.50	4.15
SEER			4.03	4.35	3.99
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	356.7	383.5	388.8
Nominal Input - Mechanical		kW	127.9	122.8	146.3
EER			2.8	3.1	2.7
ESEER			3.97	4.09	3.97
SEER			3.85	3.99	3.83
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	25-45-65-85-100	25-45-65-85-100	20-40-55-75-85-100
Minimum Turndown Ratio			0.25	0.24	0.20
Dimensions (H x W x L)		mm	2415 x 2200 x 3690	2415 x 2200 x 5956	2415 x 2200 x 3690
Mass					
Machine	3)	kg	2875	3765	3030
Operating		kg	2960	3880	3115
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	12.60	21.00	12.60
Nominal Airflow - High Airflow EC Fans		m³/s	N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	35.7	59.5	35.7
Nominal Airflow - AC Fans		m³/s	33.3	55.4	33.3
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	10	6
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans		rpm	N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	908	908	908
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	44 + 45	67 + 69	44 + 45
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	4)	l	1543	1540	1326
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.
(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

Mechanical Data Regular Quiet Continued

			DCC042DR-10BSS0	DCC043DR-08BST0	DCC045DR-10BST0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	417.2	441.8	450.9
Nominal Input - Mechanical		kW	136.0	155.3	150.1
EER	2)		3.07	2.84	3.00
ESEER			4.46	4.30	4.43
SEER			4.31	4.14	4.28
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	421.7	439.4	453.9
Nominal Input - Mechanical		kW	138.2	154.6	151.4
EER			3.1	2.8	3.0
ESEER			4.07	4.04	4.07
SEER			3.96	3.91	3.96
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	20-35-55-70-85-100	20-40-55-70-85-100	15-35-55-70-85-100
Minimum Turndown Ratio			0.18	0.18	0.17
Dimensions (H x W x L)		mm	2415 x 2200 x 5956	2415 x 2200 x 4820	2415 x 2200 x 5956
Mass					
Machine	3)	kg	3920	3565	4015
Operating		kg	4025	3675	4140
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	21.00	16.80	21.00
Nominal Airflow - High Airflow EC Fans		m³/s	N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	59.5	47.6	59.5
Nominal Airflow - AC Fans		m³/s	55.4	44.3	55.4
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			10	8	10
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans		rpm	N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	908	908	908
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	67 + 69	58 + 62	70 + 742
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	4)	l	1321	1335	1326
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.
(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

Mechanical Data Regular Quiet Continued

			DCC046DR-08BTT0	DCC048DR-10BTT0	DCC051DR-08BVV0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	No
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	469.7	479.9	516.5
Nominal Input - Mechanical		kW	169.9	163.9	197.9
EER	2)		2.76	2.93	2.61
ESEER			4.22	4.36	4.24
SEER			4.06	4.21	4.06
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	464.8	481.4	509.8
Nominal Input - Mechanical		kW	168.6	164.4	197.9
EER			2.8	2.9	2.6
ESEER			4.09	4.04	4.11
SEER			3.87	3.92	3.89
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	20-40-55-75-85-100	20-40-55-70-85-100	20-40-55-75-85-100
Minimum Turndown Ratio			0.20	0.19	0.20
Dimensions (H x W x L)		mm	2415 x 2200 x 4820	2415 x 2200 x 5956	2415 x 2200 x 4820
Mass					
Machine	3)	kg	3605	4065	3605
Operating		kg	3715	4195	3715
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	16.80	21.00	16.80
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	47.6	59.5	47.6
Nominal Airflow - AC Fans		m³/s	44.3	55.4	44.3
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			8	10	8
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	908	908	908
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	59 + 62	71 + 74	60 + 63
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	4)	l	1553	1543	1741
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.
(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

Mechanical Data Extra Quiet

			DCC011SX-04AK00	DCC014SX-04AL00	DCC017SX-04AM00
Number of Refrigeration Circuits			1	1	1
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	110.8	138.1	159.2
Nominal Input - Mechanical		kW	32.7	44.0	52.4
EER	2)		3.39	3.14	3.04
ESEER			4.52	4.22	4.16
SEER			4.40	4.11	4.05
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	112.2	140.4	162.3
Nominal Input - Mechanical		kW	34.1	45.1	53.2
EER			3.3	3.1	3.1
ESEER			4.12	3.94	3.94
SEER			4.03	3.86	3.85
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	55-100	55-100	55-100
Minimum Turndown Ratio			0.53	0.55	0.55
Dimensions (H x W x L)		mm	2405 x 2200 x 2554	2405 x 2200 x 2554	2405 x 2200 x 2554
Mass					
Machine	3)	kg	1615	1725	1760
Operating		kg	1640	1750	1790
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	8.40	8.40	8.40
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	14.8	14.8	14.8
Nominal Airflow - AC Fans		m³/s	17.4	17.4	17.4
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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
			Polyol Ester		
Refrigeration					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	45	46	47
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	4)	l	1019	1303	1533
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.
(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

Mechanical Data Extra Quiet Continued

			DCC021SX-06BS00	DCC023SX-04BT00	DCC024SX-06BT00
Number of Refrigeration Circuits			1	1	1
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	206.9	218.0	237.2
Nominal Input - Mechanical		kW	66.1	87.1	79.8
EER	2)		3.13	2.50	2.97
ESEER			4.47	4.13	4.40
SEER			4.33	3.96	4.25
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	210.4	224.9	242.0
Nominal Input - Mechanical		kW	67.7	86.1	80.9
EER			3.1	2.6	3.0
ESEER			4.11	4.08	4.09
SEER			4.00	3.82	3.98
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	35-70-100	40-75-100	40-70-100
Minimum Turndown Ratio			0.37	0.41	0.38
Dimensions (H x W x L)		mm	2415 x 2200 x 3690	2405 x 2200 x 2554	2415 x 2200 x 3690
Mass					
Machine	3)	kg	2455	2035	2520
Operating		kg	2505	2080	2570
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	12.60	8.40	12.60
Nominal Airflow - High Airflow EC Fans		m³/s	N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	22.2	14.8	22.2
Nominal Airflow - AC Fans		m³/s	26.1	17.4	26.1
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	4	6
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans		rpm	N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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 Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	69	58	71
			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	4)	l	1327	1565	1557
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.
(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

Mechanical Data Extra Quiet Continued

			DCC011DX-04ACC0	DCC013DX-04ACD0	DCC014DX-04ADD0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	111.8	126.3	138.9
Nominal Input - Mechanical		kW	32.6	38.2	43.7
EER	2)		3.43	3.30	3.18
ESEER			4.38	4.43	4.00
SEER			4.27	4.31	3.91
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	113.2	128.1	141.2
Nominal Input - Mechanical		kW	34.1	39.5	44.8
EER			3.3	3.2	3.1
ESEER			4.19	4.25	3.92
SEER			4.09	4.14	3.84
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	50-100	45-100	50-100
Minimum Turndown Ratio			0.50	0.45	0.50
Dimensions (H x W x L)		mm	2405 x 2200 x 2554	2405 x 2200 x 2554	2405 x 2200 x 2554
Mass					
Machine	3)	kg	1680	1735	1785
Operating		kg	1700	1765	1815
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	8.40	8.40	8.40
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	14.8	14.8	14.8
Nominal Airflow - AC Fans		m³/s	17.4	17.4	17.4
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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
			Polyol Ester		
Refrigeration					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	25 + 25	25 + 25	25 + 25
			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	4)	l	963	980	1201
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.
(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

Mechanical Data Extra Quiet Continued

			DCC015DX-04ADF0	DCC016DX-04AJJ0	DCC018DX-04BJK0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	149.8	154.9	176.8
Nominal Input - Mechanical		kW	48.2	50.8	62.2
EER	2)		3.11	3.05	2.84
ESEER			4.04	4.38	4.36
SEER			3.94	4.24	4.20
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	152.5	157.9	180.9
Nominal Input - Mechanical		kW	49.1	51.6	62.3
EER			3.1	3.1	2.9
ESEER			3.97	4.12	4.15
SEER			3.88	4.01	4.02
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	45-100	30-55-80-100	25-55-75-100
Minimum Turndown Ratio			0.47	0.28	0.24
Dimensions (H x W x L)		mm	2405 x 2200 x 2554	2405 x 2200 x 2554	2405 x 2200 x 2554
Mass					
Machine	3)	kg	1805	1945	1975
Operating		kg	1830	1975	2010
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	8.40	8.40	8.40
Nominal Airflow - High Airflow EC Fans		m³/s	N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	14.8	14.8	14.8
Nominal Airflow - AC Fans		m³/s	17.4	17.4	17.4
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans		rpm	N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7
Oil Type			Polyol Ester		
Refrigeration					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	25 + 26	25 + 26	27 + 27
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	4)	l	1217	744	746
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.
(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

Mechanical Data Extra Quiet Continued

			DCC019DX-04AFK0	DCC020DX-06AFK0	DCC021DX-04AKK0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	182.0	193.9	201.8
Nominal Input - Mechanical		kW	63.4	59.1	73.9
EER	2)		2.87	3.28	2.73
ESEER			3.98	4.37	4.25
SEER			3.87	4.26	4.08
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	186.3	196.9	207.2
Nominal Input - Mechanical		kW	63.4	60.9	73.3
EER			2.9	3.2	2.8
ESEER			3.98	4.17	4.08
SEER			3.85	4.07	3.98
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	45-75-100	45-75-100	30-55-80-100
Minimum Turndown Ratio			0.44	0.44	0.29
Dimensions (H x W x L)		mm	2405 x 2200 x 2554	2415 x 2200 x 3690	2405 x 2200 x 2554
Mass					
Machine	3)	kg	1915	2435	1985
Operating		kg	1950	2480	2020
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	8.40	12.60	8.40
Nominal Airflow - High Airflow EC Fans		m³/s	N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	14.8	22.2	14.8
Nominal Airflow - AC Fans		m³/s	17.4	26.1	17.4
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	6	4
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans		rpm	N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	26 + 27	38 + 38	26 + 27
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	4)	l	1418	1476	1014
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.
(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

Mechanical Data Extra Quiet Continued

			DCC022DX-06AKK0	DCC024DX-06BKL0	DCC025DX-08BKL0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	216.7	241.4	251.3
Nominal Input - Mechanical		kW	67.8	80.0	76.8
EER	2)		3.19	3.02	3.27
ESEER			4.56	4.49	4.65
SEER			4.41	4.33	4.50
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	220.4	246.3	255.0
Nominal Input - Mechanical		kW	69.2	81.0	79.3
EER			3.2	3.0	3.2
ESEER			4.25	4.04	4.26
SEER			4.14	4.09	4.15
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	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	0.24
Dimensions (H x W x L)		mm	2415 x 2200 x 3690	2415 x 2200 x 3690	2415 x 2200 x 4820
Mass					
Machine	3)	kg	2510	2660	3120
Operating		kg	2550	2725	3200
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	12.60	12.60	16.80
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	22.2	22.2	29.6
Nominal Airflow - AC Fans		m³/s	26.1	26.1	34.8
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	6	8
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	38 + 38	40 + 42	50 + 53
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	4)	l	1026	1038	1033
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.
(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

Mechanical Data Extra Quiet Continued

			DCC027DX-06BLL0	DCC028DX-08BLL0	DCC030DX-06BLM0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	264.0	276.1	283.7
Nominal Input - Mechanical		kW	92.1	87.9	101.6
EER	2)		2.87	3.14	2.79
ESEER			4.20	4.38	4.21
SEER			4.06	4.25	4.06
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	270.0	280.7	290.7
Nominal Input - Mechanical		kW	92.6	90.1	101.7
EER			2.9	3.1	2.9
ESEER			3.83	4.08	3.98
SEER			3.90	3.98	3.91
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	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	2415 x 2200 x 3690	2415 x 2200 x 4820	2415 x 2200 x 3690
Mass					
Machine	3)	kg	2760	3230	2805
Operating		kg	2825	3305	2875
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	12.60	16.80	12.60
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	22.2	29.6	22.2
Nominal Airflow - AC Fans		m³/s	26.1	34.8	26.1
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	8	6
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	40 + 42	51 + 53	41 + 43
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	4)	l	1307	1303	1316
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.
(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

Mechanical Data Extra Quiet Continued

			DCC031DX-08BLM0	DCC032DX-06BMM0	DCC033DX-08BMM0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	298.2	300.6	317.2
Nominal Input - Mechanical		kW	96.4	110.9	104.8
EER	2)		3.09	2.71	3.03
ESEER			4.40	4.10	4.32
SEER			4.26	3.96	4.18
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	303.6	308.6	323.4
Nominal Input - Mechanical		kW	98.3	110.5	106.3
EER			3.1	2.8	3.0
ESEER			4.11	3.94	4.08
SEER			4.00	3.86	3.97
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	25-55-75-100	30-55-80-100	30-55-80-100
Minimum Turndown Ratio			0.25	0.29	0.28
Dimensions (H x W x L)		mm	2415 x 2200 x 4820	2415 x 2200 x 3690	2415 x 2200 x 4820
Mass					
Machine	3)	kg	3270	2830	3300
Operating		kg	3350	2900	3380
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	16.80	12.60	16.80
Nominal Airflow - High Airflow EC Fans		m³/s	N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	29.6	22.2	29.6
Nominal Airflow - AC Fans		m³/s	34.8	26.1	34.8
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			8	6	8
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans		rpm	N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	52 + 54	42 + 43	52 + 54
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	4)	l	1311	1513	1529
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.
(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

Mechanical Data Extra Quiet Continued

			DCC036DX-08BMS0	DCC038DX-10BMS0	DCC039DX-08BSS0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	354.9	368.6	386.9
Nominal Input - Mechanical		kW	123.6	118.7	142.1
EER	2)		2.87	3.11	2.72
ESEER			4.35	4.41	4.34
SEER			4.19	4.26	4.17
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	363.1	375.3	396.9
Nominal Input - Mechanical		kW	124.2	121.1	141.8
EER			2.9	3.1	2.8
ESEER			3.97	4.13	3.97
SEER			3.99	4.02	3.97
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	25-45-65-85-100	25-45-65-85-100	20-40-55-75-85-100
Minimum Turndown Ratio			0.25	0.24	0.20
Dimensions (H x W x L)		mm	2415 x 2200 x 4820	2415 x 2200 x 5956	2415 x 2200 x 4820
Mass					
Machine	3)	kg	3505	3995	3660
Operating		kg	3600	4100	3755
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	16.80	21.00	16.80
Nominal Airflow - High Airflow EC Fans		m³/s	N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	29.6	37	29.6
Nominal Airflow - AC Fans		m³/s	34.8	43.5	34.8
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			8	10	8
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans		rpm	N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	55 + 57	56 + 80	55 + 57
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	4)	l	1556	1546	1334
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.
(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

Mechanical Data Extra Quiet Continued

			DCC042DX-12BSS0	DCC043DX-08BST0	DCC045DX-12BST0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	414.3	412.1	445.2
Nominal Input - Mechanical		kW	132.2	158.2	146.0
EER	2)		3.13	2.61	3.05
ESEER			4.55	4.30	4.53
SEER			4.40	4.12	4.37
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	421.2	424.4	453.4
Nominal Input - Mechanical		kW	135.5	157.1	148.7
EER			3.1	2.7	3.0
ESEER			4.18	4.09	4.18
SEER			4.07	3.94	4.06
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	20-35-55-70-85-100	20-40-55-75-85-100	15-35-55-70-85-100
Minimum Turndown Ratio			0.19	0.18	0.17
Dimensions (H x W x L)		mm	2415 x 2200 x 7090	2415 x 2200 x 4820	2415 x 2200 x 7090
Mass					
Machine	3)	kg	4575	3765	4670
Operating		kg	4695	3875	4805
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	25.20	16.80	25.20
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	44.4	29.6	44.4
Nominal Airflow - AC Fans		m³/s	52.2	34.8	52.2
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			12	8	12
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	79 + 81	58 + 62	81 + 87
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	4)	l	1327	1340	1332
Maximum System Operating Pressure		Bar	10	11	10

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

Mechanical Data Extra Quiet Continued

			DCC046DX-10BTT0	DCC048DX-12BTT0	DCC051DX-10BVV0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			No	No	No
Enhance Capital Allowance listed			Yes	Yes	No
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1)	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2)		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1)	kW	456.4	471.6	500.0
Nominal Input - Mechanical		kW	165.0	159.5	196.2
EER	2)		2.77	2.96	2.55
ESEER			4.37	4.47	4.39
SEER			4.20	4.31	4.19
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5)	°C	N/A	N/A	N/A
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	467.9	481.0	513.9
Nominal Input - Mechanical		kW	165.4	161.7	193.8
EER			2.8	3.0	2.7
ESEER			4.11	4.15	4.17
SEER			3.98	4.03	4.01
Nominal Output - Free Cooling		kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling		°C	N/A	N/A	N/A
Capacity Steps		%	20-40-55-75-85-100	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	2415 x 2200 x 5956	2415 x 2200 x 7090	2415 x 2200 x 5956
Mass					
Machine	3)	kg	4270	4725	4270
Operating		kg	4390	4860	4395
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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			Copper Tube & Aluminium Fin		
Face Area (Total)		m²	21.00	25.20	21.00
Nominal Airflow - High Airflow EC Fans		m³/s	N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	37	44.4	37
Nominal Airflow - AC Fans		m³/s	43.5	52.2	43.5
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			10	12	10
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans		rpm	N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	71 + 74	83 + 87	73 + 75
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	4)	l	1562	1552	1753
Maximum System Operating Pressure		Bar	12	10	13

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

Electrical Data Regular Quiet

ELECTRICAL DATA Unit Data			DCC011SR-04AK00	DCC014SR-04AL00	DCC017SR-04AM00
Nominal Run Amps	(1)	A	83.2	103.3	112.2
Maximum Start Amps	(2)	A	265.2	320.3	384.7
Recommended Mains Fuse Size		A	100	125	125
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	80	80
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	4	4
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	33.0	43.1	47.5
Quantity			2	2	2
Motor Rating		kW	18.8	24.0	28.2
Sump Heater Rating		W	75	75	130
Start Amps (2)		A	215	260	320
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			28.5	36.5	42.8
Circuit 2 Comp RLA (PFC)			N/A	N/A	N/A
Nominal Run Amps		A	74.2	90.2	102.8
Maximum Start Amps		A	260.7	313.7	380.0
Compressor Nominal Run Amps		A	28.5	36.5	42.8
Recommended Mains Fuse Size		A	100	125	125
Electronic Soft-start					
Nominal Run Amps		A	83.24	103.32	112.18
Maximum Start Amps		A	179.22	216.26	256.69
Recommended Mains Fuse		A	100	125	125
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	74.2	90.2	102.8
Maximum Start Amps		A	174.7	209.7	252.0
Compressor Nominal Run Amps		A	28.51	36.48	42.78
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	88.2	108.3	117.2
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	88.2	108.3	118.8
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	4.5	4.5	4.5
Unit Nominal Run Amps		A	87.7	107.8	116.6
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	89.5	109.6	118.5
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCC021SR-04BS00	DCC023SR-04BT00	DCC024SR-06BT00
Nominal Run Amps	(1)	A	146.4	159.7	168.3
Maximum Start Amps	(2)	A	363.3	432.2	440.8
Recommended Mains Fuse Size		A	160	200	200
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	4	6
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	43.1	47.5	47.5
Quantity			3	3	3
Motor Rating		kW	24.0	28.2	28.2
Sump Heater Rating		W	75	130	130
Start Amps (2)		A	260	320	320
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			36.5	42.8	42.8
Circuit 2 Comp RLA (PFC)			N/A	N/A	N/A
Nominal Run Amps		A	126.7	145.6	154.2
Maximum Start Amps		A	350.2	422.8	431.4
Compressor Nominal Run Amps		A	36.5	42.8	42.8
Recommended Mains Fuse Size		A	160	200	200
Electronic Soft-start					
Nominal Run Amps		A	146.4	159.7	168.3
Maximum Start Amps		A	259.3	304.2	312.8
Recommended Mains Fuse		A	160	200	200
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	126.7	145.6	154.2
Maximum Start Amps		A	246.2	294.8	303.4
Compressor Nominal Run Amps		A	36.5	42.8	42.8
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	151.4	165.9	174.5
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	153.0	168.6	177.2
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	4.5	6.3	8.0
Unit Nominal Run Amps		A	150.8	166.0	176.3
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	152.7	167.7	176.3
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCC011DR-04ACC0	DCC013DR-04ACD0	DCC014DR-04ADD0
Nominal Run Amps	(1)	A	83.2	93.3	103.3
Maximum Start Amps	(2)	A	265.2	310.2	320.3
Recommended Mains Fuse Size		A	100	125	125
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	80	80
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	4	4
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	33.0 / 33.0	43.1 / 33.0	43.1 / 43.1
Quantity			1 + 1	1 + 1	1 + 1
Motor Rating		kW	18.8 / 18.8	24.0 / 18.8	24.0 / 24.0
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					
Circuit 1 Comp RLA (PFC)			28.5	36.5	36.5
Circuit 2 Comp RLA (PFC)			28.5	28.5	36.5
Nominal Run Amps		A	74.2	82.2	90.2
Maximum Start Amps		A	260.7	305.7	313.7
Compressor Nominal Run Amps		A	28.5 / 28.5	36.5 / 28.5	36.5 / 36.5
Recommended Mains Fuse Size		A	100	125	125
Electronic Soft-start					
Nominal Run Amps		A	83.24	93.28	103.32
Maximum Start Amps		A	179.22	206.22	216.26
Recommended Mains Fuse		A	100	125	125
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	74.2	82.2	90.2
Maximum Start Amps		A	174.7	201.7	209.7
Compressor Nominal Run Amps		A	28.5 / 28.5	36.5 / 28.5	36.5 / 36.5
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	88.2	98.3	108.3
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	88.2	98.3	108.3
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	4.5	4.5	4.5
Unit Nominal Run Amps		A	87.7	97.7	107.8
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	89.5	99.6	109.6
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCC015DR-04ADF0	DCC016DR-04AJJ0	DCC018DR-04BJK0
Nominal Run Amps	(1)	A	107.8	125.2	137.2
Maximum Start Amps	(2)	A	380.3	278.2	319.2
Recommended Mains Fuse Size		A	125	160	160
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	80	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	4	4
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	47.5 / 43.1	27.0 / 27.0	33.0 / 27.0
Quantity			1 + 1	2 + 2	2 + 2
Motor Rating		kW	28.2 / 24.0	13.7 / 13.7	18.8 / 13.7
Sump Heater Rating		W	130 + 75	75	75
Start Amps (2)		A	320 / 260	180 / 180	215 / 180
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			42.8	20.9	28.5
Circuit 2 Comp RLA (PFC)			36.5	20.9	20.9
Nominal Run Amps		A	96.5	100.6	115.9
Maximum Start Amps		A	373.7	259.8	302.4
Compressor Nominal Run Amps		A	42.8 / 36.5	20.9 / 20.9	28.5 / 20.9
Recommended Mains Fuse Size		A	125	160	160
Electronic Soft-start					
Nominal Run Amps		A	107.75	125.2	137.24
Maximum Start Amps		A	252.26	206.2	233.22
Recommended Mains Fuse		A	125	160	160
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	96.5	100.6	115.9
Maximum Start Amps		A	245.7	187.8	216.4
Compressor Nominal Run Amps		A	42.8 / 36.5	20.9 / 20.9	28.5 / 20.9
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	112.8	130.2	142.2
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	112.8	131.8	143.8
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	4.5	4.5	4.5
Unit Nominal Run Amps		A	112.2	129.7	141.7
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	114.1	131.5	143.5
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCC019DR-04AFK0	DCC020DR-06AFK0	DCC021DR-04AKK0
Nominal Run Amps	(1)	A	130.7	139.3	149.3
Maximum Start Amps	(2)	A	343.2	411.8	331.3
Recommended Mains Fuse Size		A	160	160	160
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	80	80
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	6	4
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	33.0 / 47.5	33.0 / 47.5	33.0 / 33.0
Quantity			2 + 1	2 + 1	2 + 2
Motor Rating		kW	18.8 / 28.2	18.8 / 28.2	13.7 / 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	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			28.5	28.5	28.5
Circuit 2 Comp RLA (PFC)			42.8	42.8	28.5
Nominal Run Amps		A	117.0	125.6	131.2
Maximum Start Amps		A	394.2	402.8	317.7
Compressor Nominal Run Amps		A	28.5 / 42.8	28.5 / 42.8	28.5 / 28.5
Recommended Mains Fuse Size		A	160	160	160
Electronic Soft-start					
Nominal Run Amps		A	130.73	139.33	149.28
Maximum Start Amps		A	239.24	283.84	245.26
Recommended Mains Fuse		A	160	160	160
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	117.0	125.6	131.2
Maximum Start Amps		A	266.2	274.8	231.7
Compressor Nominal Run Amps		A	28.5 / 42.8	28.5 / 42.8	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	135.7	144.3	155.5
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	137.3	145.9	158.2
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	4.5	4.5	6.3
Unit Nominal Run Amps		A	135.2	143.8	155.6
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	137.0	145.6	157.3
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCC022DR-06AKK0	DCC024DR-04BKL0	DCC025DR-06BKL0
Nominal Run Amps	(1)	A	157.9	169.4	178.0
Maximum Start Amps	(2)	A	339.9	386.3	394.9
Recommended Mains Fuse Size		A	200	200	200
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	100	100
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			6	4	6
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	33.0 / 33.0	43.1 / 33.0	43.1 / 33.0
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	18.8 / 18.8	24.0 / 18.8	24.0 / 18.8
Sump Heater Rating		W	75	75	75
Start Amps (2)		A	215 / 215	260 / 215	260 / 215
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			28.5	36.5	36.5
Circuit 2 Comp RLA (PFC)			28.5	28.5	28.5
Nominal Run Amps		A	139.8	147.2	155.8
Maximum Start Amps		A	326.3	370.7	379.3
Compressor Nominal Run Amps		A	28.5 / 28.5	36.5 / 28.5	36.5 / 28.5
Recommended Mains Fuse Size		A	200	200	200
Electronic Soft-start					
Nominal Run Amps		A	157.9	169.4	178.0
Maximum Start Amps		A	253.9	282.3	290.9
Recommended Mains Fuse		A	200	200	200
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	139.8	147.2	155.8
Maximum Start Amps		A	240.3	266.7	275.3
Compressor Nominal Run Amps		A	28.5 / 28.5	36.5 / 28.5	36.5 / 28.5
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	164.1	175.6	184.2
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	166.8	178.3	186.9
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	8.0	8.0
Unit Nominal Run Amps		A	164.2	177.4	186.0
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	165.9	180.6	189.2
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCC027DR-04BLL0	DCC028DR-06BLL0	DCC030DR-06BLM0
Nominal Run Amps	(1)	A	189.4	198.0	206.9
Maximum Start Amps	(2)	A	406.4	415.0	479.4
Recommended Mains Fuse Size		A	200	250	250
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	6	6
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	43.1 / 43.1	43.1 / 43.1	47.5 / 43.1
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	24.0 / 24.0	24.0 / 24.0	28.2 / 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	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			36.5	36.5	42.8
Circuit 2 Comp RLA (PFC)			36.5	36.5	36.5
Nominal Run Amps		A	163.1	171.7	184.3
Maximum Start Amps		A	386.7	395.3	461.6
Compressor Nominal Run Amps		A	36.5 / 36.5	36.5 / 36.5	42.8 / 36.5
Recommended Mains Fuse Size		A	200	250	250
Electronic Soft-start					
Nominal Run Amps		A	189.4	198.0	206.9
Maximum Start Amps		A	302.4	311.0	351.4
Recommended Mains Fuse		A	200	250	250
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	163.1	171.7	184.3
Maximum Start Amps		A	282.7	291.3	333.6
Compressor Nominal Run Amps		A	36.5 / 36.5	36.5 / 36.5	42.8 / 36.5
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	195.6	204.2	213.1
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	198.3	206.9	215.8
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	8.0	8.0	11.2
Unit Nominal Run Amps		A	197.4	206.0	218.1
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	200.6	209.2	218.1
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCC031DR-08BLM0	DCC032DR-06BMM0	DCC033DR-08BMM0
Nominal Run Amps	(1)	A	215.5	215.8	224.4
Maximum Start Amps	(2)	A	488.0	488.3	496.9
Recommended Mains Fuse Size		A	250	250	250
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			8	6	8
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	47.5 / 43.1	47.5 / 47.5	47.5 / 47.5
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	28.2 / 24.0	28.2 / 28.2	28.2 / 28.2
Sump Heater Rating		W	130 + 75	130	130
Start Amps (2)		A	320 / 260	320 / 260	320 / 320
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			42.8	42.8	42.8
Circuit 2 Comp RLA (PFC)			36.5	42.8	42.8
Nominal Run Amps		A	192.9	196.9	205.5
Maximum Start Amps		A	470.2	414.2	482.8
Compressor Nominal Run Amps		A	42.8 / 36.5	42.8 / 42.8	42.8 / 42.8
Recommended Mains Fuse Size		A	250	250	250
Electronic Soft-start					
Nominal Run Amps		A	215.5	215.8	224.4
Maximum Start Amps		A	360.0	360.3	368.9
Recommended Mains Fuse		A	250	250	250
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	192.9	196.9	205.5
Maximum Start Amps		A	342.2	310.2	354.8
Compressor Nominal Run Amps		A	42.8 / 36.5	42.8 / 42.8	42.8 / 42.8
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	221.7	224.66	233.26
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	224.4	227.76	236.36
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	226.7	227.0	235.6
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	226.7	226.96	235.56
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCC036DR-06BMS0	DCC038DR-10BMS0	DCC039DR-06BSS0
Nominal Run Amps	(1)	A	250.0	267.2	284.2
Maximum Start Amps	(2)	A	522.5	539.7	501.1
Recommended Mains Fuse Size		A	315	315	315
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			6	10	6
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	43.1 / 47.5	43.1 / 47.5	43.1 / 43.1
Quantity			3 + 2	3 + 2	3 + 3
Motor Rating		kW	24.0 / 28.2	24.0 / 28.2	24.0 / 24.0
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	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			36.5	36.5	36.5
Circuit 2 Comp RLA (PFC)			42.8	42.8	36.5
Nominal Run Amps		A	220.8	238.0	244.7
Maximum Start Amps		A	498.0	515.2	468.2
Compressor Nominal Run Amps		A	36.5 / 42.8	36.5 / 42.8	36.5 / 36.5
Recommended Mains Fuse Size		A	315	315	315
Electronic Soft-start					
Nominal Run Amps		A	250.0	267.2	284.2
Maximum Start Amps		A	394.5	411.7	397.1
Recommended Mains Fuse		A	315	315	315
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	220.8	238.0	244.7
Maximum Start Amps		A	370.0	387.2	364.2
Compressor Nominal Run Amps		A	36.5 / 42.8	36.5 / 42.8	36.5 / 36.5
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	262.0	279.2	296.2
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	264.0	281.2	298.2
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	261.2	278.4	295.4
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	261.2	278.4	295.4
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCC042DR-10BSS0	DCC043DR-08BST0	DCC045DR-10BST0
Nominal Run Amps	(1)	A	301.4	306.1	314.7
Maximum Start Amps	(2)	A	518.3	578.6	587.2
Recommended Mains Fuse Size		A	315	355	355
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			10	8	10
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	43.1 / 43.1	47.5 / 43.1	47.5 / 43.1
Quantity			3 + 3	3 + 3	3 + 3
Motor Rating		kW	24.0 / 24.0	28.2 / 24.0	28.2 / 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	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			36.5	42.8	42.8
Circuit 2 Comp RLA (PFC)			36.5	36.5	36.5
Nominal Run Amps		A	261.9	272.2	280.8
Maximum Start Amps		A	485.4	549.4	558.0
Compressor Nominal Run Amps		A	36.5 / 36.5	42.8 / 36.5	42.8 / 36.5
Recommended Mains Fuse Size		A	315	355	355
Electronic Soft-start					
Nominal Run Amps		A	301.4	306.1	314.7
Maximum Start Amps		A	414.3	403.1	411.7
Recommended Mains Fuse		A	315	355	355
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	261.9	272.2	280.8
Maximum Start Amps		A	381.4	378.6	387.2
Compressor Nominal Run Amps		A	36.5 / 36.5	42.8 / 36.5	42.8 / 36.5
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	313.4	318.1	326.7
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	315.4	320.1	328.7
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	312.6	317.3	325.9
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	312.6	320.9	329.5
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCC046DR-08BTT0	DCC048DR-10BTT0	DCC051DR-08BVV0
Nominal Run Amps	(1)	A	319.3	327.9	365.6
Maximum Start Amps	(2)	A	591.9	600.5	577.4
Recommended Mains Fuse Size		A	355	355	400
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	17
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			8	10	8
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	47.5 / 47.5	47.5 / 47.5	55.2 / 55.2
Quantity			3 + 3	3 + 3	3 + 3
Motor Rating		kW	28.2 / 28.2	28.2 / 28.2	33.1 / 33.1
Sump Heater Rating		W	130	130	140
Start Amps (2)		A	320 / 320	320 / 320	267 / 267
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			42.8	42.8	50.3
Circuit 2 Comp RLA (PFC)			42.8	42.8	50.3
Nominal Run Amps		A	291.1	299.7	336.1
Maximum Start Amps		A	568.3	576.9	552.9
Compressor Nominal Run Amps		A	42.8 / 42.8	42.8 / 42.8	50.3 / 50.3
Recommended Mains Fuse Size		A	355	355	400
Electronic Soft-start					
Nominal Run Amps		A	319.34	327.94	365.6
Maximum Start Amps		A	463.85	472.45	470.6
Recommended Mains Fuse		A	355	355	400
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	291.1	299.7	336.1
Maximum Start Amps		A	440.3	448.9	446.1
Compressor Nominal Run Amps		A	42.8 / 42.8	42.8 / 42.8	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	331.34	339.94	377.6
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	333.3	341.9	379.6
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	330.5	339.1	376.8
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	334.1	342.7	380.4
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Extra Quiet

ELECTRICAL DATA Unit Data			DCC011SX-04AK00	DCC014SX-04AL00	DCC017SX-04AM00
Nominal Run Amps	(1)	A	76.0	96.1	105.0
Maximum Start Amps	(2)	A	258.0	313.1	377.5
Recommended Mains Fuse Size		A	100	125	125
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	80	80
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	4	4
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
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	33.0	43.1	47.5
Quantity			2	2	2
Motor Rating		kW	18.8	24.0	28.2
Sump Heater Rating		W	75	75	130
Start Amps (2)		A	215	260	320
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			28.5	36.5	42.8
Circuit 2 Comp RLA (PFC)			N/A	N/A	N/A
Nominal Run Amps		A	67.0	83.0	95.6
Maximum Start Amps		A	253.5	306.5	372.8
Compressor Nominal Run Amps		A	28.5	36.5	42.8
Recommended Mains Fuse Size		A	100	125	125
Electronic Soft-start					
Nominal Run Amps		A	76.0	96.1	105.0
Maximum Start Amps		A	172.0	209.1	249.5
Recommended Mains Fuse		A	100	125	125
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	67.0	83.0	95.6
Maximum Start Amps		A	167.5	202.5	244.8
Compressor Nominal Run Amps		A	28.51	36.48	42.78
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	81.0	101.1	110.0
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	81.0	101.1	111.6
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	4.5	4.5	4.5
Unit Nominal Run Amps		A	80.5	100.6	109.4
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	82.3	102.4	111.3
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCC021SX-06BS00	DCC023SX-04BT00	DCC024SX-06BT00
Nominal Run Amps	(1)	A	144.2	152.5	157.5
Maximum Start Amps	(2)	A	361.1	425.0	430.0
Recommended Mains Fuse Size		A	160	200	200
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			6	4	6
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
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	43.1	47.5	47.5
Quantity			3	3	3
Motor Rating		kW	24.0	28.2	28.2
Sump Heater Rating		W	75	130	130
Start Amps (2)		A	260	320	320
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			36.5	42.8	42.8
Circuit 2 Comp RLA (PFC)			N/A	N/A	N/A
Nominal Run Amps		A	124.5	138.4	143.4
Maximum Start Amps		A	348.0	415.6	420.6
Compressor Nominal Run Amps		A	36.5	42.8	42.8
Recommended Mains Fuse Size		A	160	200	200
Electronic Soft-start					
Nominal Run Amps		A	144.2	152.5	157.5
Maximum Start Amps		A	257.1	258.3	263.3
Recommended Mains Fuse		A	160	200	200
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	124.5	138.4	143.4
Maximum Start Amps		A	244.0	287.6	292.6
Compressor Nominal Run Amps		A	36.48	42.78	42.78
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	149.2	158.7	163.7
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	150.78	161.37	166.37
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	4.5	6.3	6.3
Unit Nominal Run Amps		A	148.6	158.8	163.8
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	150.5	160.5	165.5
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCC011DX-04ACC0	DCC013DX-04ACD0	DCC014DX-04ADD0
Nominal Run Amps	(1)	A	76.0	86.1	96.1
Maximum Start Amps	(2)	A	258.0	303.0	313.1
Recommended Mains Fuse Size		A	100	125	125
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	80	80
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	4	4
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
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	33.0 / 33.0	43.1 / 33.0	43.1 / 43.1
Quantity			1 + 1	1 + 1	1 + 1
Motor Rating		kW	18.8 / 18.8	24.0 / 18.8	24.0 / 24.0
Sump Heater Rating		W	75	75	75
Start Amps (2)		A	215 / 215	260 / 260	260 / 260
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			28.5	36.5	36.5
Circuit 2 Comp RLA (PFC)			28.5	28.5	36.5
Nominal Run Amps		A	67.0	75.0	83.0
Maximum Start Amps		A	253.5	298.5	306.5
Compressor Nominal Run Amps		A	28.5 / 28.5	36.5 / 28.5	36.5 / 36.5
Recommended Mains Fuse Size		A	100	125	125
Electronic Soft-start					
Nominal Run Amps		A	76.04	86.08	96.12
Maximum Start Amps		A	172.02	199.02	209.06
Recommended Mains Fuse		A	100	125	125
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	67.0	75.0	83.0
Maximum Start Amps		A	167.5	194.5	202.5
Compressor Nominal Run Amps		A	28.5 / 28.5	36.5 / 28.5	36.5 / 36.5
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	81.0	91.1	101.1
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	81.0	91.1	101.1
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	4.5	4.5	4.5
Unit Nominal Run Amps		A	80.5	90.5	100.6
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	82.3	92.4	102.4
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCC015DX-04ADF0	DCC016DX-04AJJ0	DCC018DX-04BJK0
Nominal Run Amps	(1)	A	100.6	118.0	135.0
Maximum Start Amps	(2)	A	373.1	271.0	317.0
Recommended Mains Fuse Size		A	125	160	160
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	80	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	4	6
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
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	47.5 / 43.1	27.0 / 27.0	33.0 / 27.0
Quantity			1 + 1	2 + 2	2 + 2
Motor Rating		kW	28.2 / 24.0	13.7 / 13.7	18.8 / 13.7
Sump Heater Rating		W	130 + 75	75	75
Start Amps (2)		A	320 / 260	180 / 180	215 / 180
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			42.8	20.9	28.5
Circuit 2 Comp RLA (PFC)			36.5	20.9	20.9
Nominal Run Amps		A	89.3	93.4	113.7
Maximum Start Amps		A	366.5	252.6	300.2
Compressor Nominal Run Amps		A	42.8 / 36.5	20.9 / 20.9	28.5 / 20.9
Recommended Mains Fuse Size		A	125	160	160
Electronic Soft-start					
Nominal Run Amps		A	100.55	118	135.04
Maximum Start Amps		A	245.06	199	231.02
Recommended Mains Fuse		A	125	160	160
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	89.3	93.4	113.7
Maximum Start Amps		A	238.5	180.6	214.2
Compressor Nominal Run Amps		A	42.8 / 36.5	20.9 / 20.9	28.5 / 20.9
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	105.6	123.0	140.0
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	105.6	124.6	141.6
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	4.5	4.5	4.5
Unit Nominal Run Amps		A	105.0	122.5	139.5
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	106.9	124.3	141.3
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCC019DX-04AFK0	DCC020DX-06AFK0	DCC021DX-04AKK0
Nominal Run Amps	(1)	A	123.5	123.5	142.1
Maximum Start Amps	(2)	A	336.0	396.0	324.1
Recommended Mains Fuse Size		A	160	160	160
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	80	80
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	4	4
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
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	33.0 / 47.5	33.0 / 47.5	33.0 / 33.0
Quantity			2 + 1	2 + 1	2 + 2
Motor Rating		kW	18.8 / 28.2	18.8 / 28.2	13.7 / 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	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			28.5	28.5	28.5
Circuit 2 Comp RLA (PFC)			42.8	42.8	28.5
Nominal Run Amps		A	109.8	109.8	124.0
Maximum Start Amps		A	387.0	387.0	310.5
Compressor Nominal Run Amps		A	28.5 / 42.8	28.5 / 42.8	28.5 / 28.5
Recommended Mains Fuse Size		A	160	160	160
Electronic Soft-start					
Nominal Run Amps		A	123.5	123.5	142.1
Maximum Start Amps		A	232.0	268.0	238.1
Recommended Mains Fuse		A	160	160	160
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	109.8	109.8	124.0
Maximum Start Amps		A	259.0	259.0	224.5
Compressor Nominal Run Amps		A	28.5 / 42.8	28.5 / 42.8	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	128.5	128.5	147.1
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	6.6	6.6	6.6
Unit Nominal Run Amps		A	130.1	130.1	148.7
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	4.5	4.5	4.5
Unit Nominal Run Amps		A	128.0	128.0	146.5
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	129.8	129.8	148.4
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCC022DX-06AKK0	DCC024DX-06BKL0	DCC025DX-08BKL0
Nominal Run Amps	(1)	A	147.1	167.2	172.2
Maximum Start Amps	(2)	A	329.1	384.1	389.1
Recommended Mains Fuse Size		A	200	200	200
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	100	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			6	6	8
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
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	33.0 / 33.0	43.1 / 33.0	43.1 / 33.0
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	18.8 / 18.8	24.0 / 18.8	24.0 / 18.8
Sump Heater Rating		W	75	75	75
Start Amps (2)		A	215 / 215	260 / 215	260 / 215
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			28.5	36.5	36.5
Circuit 2 Comp RLA (PFC)			28.5	28.5	28.5
Nominal Run Amps		A	129.0	145.0	150.0
Maximum Start Amps		A	315.5	368.5	373.5
Compressor Nominal Run Amps		A	28.5 / 28.5	36.5 / 28.5	36.5 / 28.5
Recommended Mains Fuse Size		A	200	200	200
Electronic Soft-start					
Nominal Run Amps		A	147.1	167.2	172.2
Maximum Start Amps		A	243.1	280.1	285.1
Recommended Mains Fuse		A	200	200	200
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	129.0	145.0	150.0
Maximum Start Amps		A	229.5	264.5	269.5
Compressor Nominal Run Amps		A	28.5 / 28.5	36.5 / 28.5	36.5 / 28.5
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	153.3	173.4	178.4
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	156.0	176.1	181.1
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	8.0	8.0
Unit Nominal Run Amps		A	153.4	175.2	180.2
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	155.1	178.4	183.4
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCC027DX-06BLL0	DCC028DX-08BLL0	DCC030DX-06BLM0
Nominal Run Amps	(1)	A	187.2	192.2	196.1
Maximum Start Amps	(2)	A	404.2	409.2	468.6
Recommended Mains Fuse Size		A	250	250	250
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			6	8	6
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
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	43.1 / 43.1	43.1 / 43.1	47.5 / 43.1
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	24.0 / 24.0	24.0 / 24.0	28.2 / 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	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			36.5	36.5	42.8
Circuit 2 Comp RLA (PFC)			36.5	36.5	36.5
Nominal Run Amps		A	160.9	165.9	173.5
Maximum Start Amps		A	384.5	389.5	450.8
Compressor Nominal Run Amps		A	36.5 / 36.5	36.5 / 36.5	42.8 / 36.5
Recommended Mains Fuse Size		A	250	250	250
Electronic Soft-start					
Nominal Run Amps		A	187.2	192.2	196.1
Maximum Start Amps		A	300.2	305.2	340.6
Recommended Mains Fuse		A	250	250	250
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	160.9	165.9	173.5
Maximum Start Amps		A	280.5	285.5	322.8
Compressor Nominal Run Amps		A	36.5 / 36.5	36.5 / 36.5	42.8 / 36.5
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	193.4	198.4	202.3
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	196.1	201.1	205.0
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	8.0	8.0	11.2
Unit Nominal Run Amps		A	195.2	200.2	207.3
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	198.4	203.4	207.3
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCC031DX-08BLM0	DCC032DX-06BMM0	DCC033DX-08BMM0
Nominal Run Amps	(1)	A	196.1	205.0	210.0
Maximum Start Amps	(2)	A	468.6	477.5	482.5
Recommended Mains Fuse Size		A	250	250	250
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			6	6	8
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
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	47.5 / 43.1	47.5 / 47.5	47.5 / 47.5
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	28.2 / 24.0	28.2 / 28.2	28.2 / 28.2
Sump Heater Rating		W	130 + 75	130	130
Start Amps (2)		A	320 / 260	320 / 260	320 / 320
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			42.8	42.8	42.8
Circuit 2 Comp RLA (PFC)			36.5	42.8	42.8
Nominal Run Amps		A	173.5	186.1	191.1
Maximum Start Amps		A	450.8	463.4	468.4
Compressor Nominal Run Amps		A	42.8 / 36.5	42.8 / 42.8	42.8 / 42.8
Recommended Mains Fuse Size		A	250	250	250
Electronic Soft-start					
Nominal Run Amps		A	196.1	205.0	210.0
Maximum Start Amps		A	340.6	349.5	354.5
Recommended Mains Fuse		A	250	250	250
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	173.5	186.1	191.1
Maximum Start Amps		A	322.8	335.4	340.4
Compressor Nominal Run Amps		A	42.8 / 36.5	42.8 / 42.8	42.8 / 42.8
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	202.3	211.2	216.2
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	205	213.86	218.86
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	207.3	216.2	221.2
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	207.3	216.2	221.2
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCC036DX-08BMS0	DCC038DX-10BMS0	DCC039DX-08BSS0
Nominal Run Amps	(1)	A	244.2	249.2	278.4
Maximum Start Amps	(2)	A	516.7	521.7	495.3
Recommended Mains Fuse Size		A	315	315	315
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			8	10	8
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
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	43.1 / 47.5	43.1 / 47.5	43.1 / 43.1
Quantity			3 + 2	3 + 2	3 + 3
Motor Rating		kW	24.0 / 28.2	24.0 / 28.2	24.0 / 24.0
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	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			36.5	36.5	36.5
Circuit 2 Comp RLA (PFC)			42.8	42.8	36.5
Nominal Run Amps		A	215.0	220.0	238.9
Maximum Start Amps		A	492.2	497.2	462.4
Compressor Nominal Run Amps		A	36.5 / 42.8	36.5 / 42.8	36.5 / 36.5
Recommended Mains Fuse Size		A	315	315	315
Electronic Soft-start					
Nominal Run Amps		A	244.2	249.2	278.4
Maximum Start Amps		A	388.7	393.7	391.3
Recommended Mains Fuse		A	315	315	315
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	215.0	220.0	238.9
Maximum Start Amps		A	364.2	369.2	358.4
Compressor Nominal Run Amps		A	36.5 / 42.8	36.5 / 42.8	36.5 / 36.5
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	253.1	258.1	290.4
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	256.2	261.2	292.4
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	255.4	260.4	289.6
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	255.4	260.4	289.6
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCC042DX-12BSS0	DCC043DX-08BST0	DCC045DX-12BST0
Nominal Run Amps	(1)	A	288.4	291.7	301.7
Maximum Start Amps	(2)	A	505.3	564.2	574.2
Recommended Mains Fuse Size		A	315	315	355
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			12	8	12
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
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	43.1 / 43.1	47.5 / 43.1	47.5 / 43.1
Quantity			3 + 3	3 + 3	3 + 3
Motor Rating		kW	24.0 / 24.0	28.2 / 24.0	28.2 / 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	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			36.5	42.8	42.8
Circuit 2 Comp RLA (PFC)			36.5	36.5	36.5
Nominal Run Amps		A	248.9	257.8	267.8
Maximum Start Amps		A	472.4	535.0	545.0
Compressor Nominal Run Amps		A	36.5 / 36.5	42.8 / 36.5	42.8 / 36.5
Recommended Mains Fuse Size		A	315	315	355
Electronic Soft-start					
Nominal Run Amps		A	288.4	291.7	301.7
Maximum Start Amps		A	401.3	388.67	398.67
Recommended Mains Fuse		A	315	315	355
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	248.9	257.8	267.8
Maximum Start Amps		A	368.4	364.2	374.2
Compressor Nominal Run Amps		A	36.5 / 36.5	42.8 / 36.5	42.8 / 36.5
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	300.4	303.7	313.7
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	302.4	305.7	315.7
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	299.6	302.9	312.9
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	299.6	306.5	316.5
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCC046DX-10BTT0	DCC048DX-12BTT0	DCC051DX-10BVV0
Nominal Run Amps	(1)	A	309.9	314.9	356.2
Maximum Start Amps	(2)	A	582.5	587.5	568.0
Recommended Mains Fuse Size		A	355	355	400
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			10	12	10
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
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	47.5 / 47.5	47.5 / 47.5	55.2 / 55.2
Quantity			3 + 3	3 + 3	3 + 3
Motor Rating		kW	28.2 / 28.2	28.2 / 28.2	33.1 / 33.1
Sump Heater Rating		W	130	130	140
Start Amps (2)		A	320 / 320	320 / 320	267 / 267
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			42.8	42.8	50.3
Circuit 2 Comp RLA (PFC)			42.8	42.8	50.3
Nominal Run Amps		A	281.7	286.7	326.7
Maximum Start Amps		A	558.9	563.9	543.5
Compressor Nominal Run Amps		A	42.8 / 42.8	42.8 / 42.8	50.3 / 50.3
Recommended Mains Fuse Size		A	355	355	400
Electronic Soft-start					
Nominal Run Amps		A	309.9	314.9	356.2
Maximum Start Amps		A	454.5	459.5	461.2
Recommended Mains Fuse		A	355	355	400
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	281.7	286.7	326.7
Maximum Start Amps		A	430.9	435.9	436.7
Compressor Nominal Run Amps		A	42.8 / 42.8	42.8 / 42.8	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	321.94	326.94	368.2
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	323.9	328.9	370.2
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	321.1	326.1	367.4
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	324.7	329.7	371.0
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Sound Data
DeltaChill Air Cooled AC Fans Regular Quiet

Model	Sound	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
		dB	dB	dB	dB	dB	dB	dB	dB	dBA
DCC011SR-04AK00	Power	86.2	81.3	81.1	85.1	82.9	79.7	74.5	68.6	87.3
	Pressure @10m	54.1	49.2	49.0	53.0	50.8	47.6	42.4	36.5	55.2
DCC014SR-04AL00	Power	89.3	87.6	86.1	89.7	86.0	77.5	72.6	66.4	90.1
	Pressure @10m	57.2	55.5	54.0	57.6	53.9	45.4	40.5	34.3	58.1
DCC017SR-04AM00	Power	89.1	87.6	86.2	91.8	89.6	77.1	71.6	64.8	92.6
	Pressure @10m	57.0	55.5	54.1	59.7	57.5	45.0	39.5	32.8	60.5
DCC021SR-04BS00	Power	89.5	87.6	86.1	91.4	87.4	78.6	74.0	67.9	91.6
	Pressure @10m	57.4	55.5	54.0	59.3	55.4	46.5	41.9	35.8	59.5
DCC023SR-04BT00	Power	89.2	87.6	86.3	93.5	91.2	78.2	72.9	66.2	94.2
	Pressure @10m	57.1	55.5	54.2	61.4	59.1	46.1	40.8	34.1	62.1
DCC024SR-06BT00	Power	90.9	89.3	88.0	93.6	91.3	78.9	73.4	66.6	94.4
	Pressure @10m	58.5	57.0	55.6	61.2	59.0	46.5	41.0	34.2	62.0
DCC011DR-04ACC0	Power	86.2	81.3	81.1	85.1	82.9	79.7	74.5	68.6	87.3
	Pressure @10m	54.1	49.2	49.0	53.0	50.8	47.6	42.4	36.5	55.2
DCC013DR-04ACD0	Power	88.0	85.5	84.4	88.0	84.7	78.7	73.7	67.6	89.0
	Pressure @10m	55.9	53.4	52.3	55.9	52.6	46.7	41.6	35.5	56.9
DCC014DR-04ADD0	Power	89.3	87.6	86.1	89.7	86.0	77.5	72.6	66.4	90.1
	Pressure @10m	57.2	55.5	54.0	57.6	53.9	45.4	40.5	34.3	58.1
DCC015DR-04ADF0	Power	89.2	87.6	86.2	90.9	88.2	77.3	72.1	65.7	91.6
	Pressure @10m	57.1	55.5	54.1	58.8	56.1	45.2	40.0	33.6	59.5
DCC016DR-04AJJ0	Power	89.0	87.6	86.1	88.3	86.1	78.3	74.5	65.4	89.7
	Pressure @10m	56.9	55.5	54.1	56.2	54.0	46.2	42.4	33.3	57.6
DCC018DR-04BJK0	Power	89.1	87.6	86.2	88.2	86.1	81.1	76.3	69.6	90.2
	Pressure @10m	57.0	55.5	54.1	56.1	54.1	49.0	44.2	37.5	58.1
DCC019DR-04AFK0	Power	89.2	87.6	86.2	90.4	88.2	80.8	75.6	69.5	91.7
	Pressure @10m	57.1	55.5	54.1	58.3	56.1	48.7	43.5	37.4	59.6
DCC020DR-06AFK0	Power	89.6	87.2	86.1	90.4	88.2	80.9	75.6	69.5	91.7
	Pressure @10m	57.3	54.9	53.7	58.0	55.9	48.5	43.2	37.1	59.4
DCC021DR-04AKK0	Power	89.2	87.6	86.2	88.2	86.2	82.8	77.6	71.6	90.6
	Pressure @10m	57.1	55.5	54.1	56.1	54.1	50.7	45.5	39.6	58.5
DCC022DR-06AKK0	Power	90.9	89.3	87.9	88.4	86.6	83.1	77.8	71.8	91.0
	Pressure @10m	58.5	57.0	55.5	56.0	54.3	50.7	45.4	39.4	58.6
DCC024DR-04BKL0	Power	89.4	87.6	86.1	90.9	87.5	81.5	76.5	70.5	91.7
	Pressure @10m	57.3	55.5	54.1	58.8	55.4	49.4	44.4	38.4	59.6
DCC025DR-06BKL0	Power	91.1	89.3	87.9	91.0	87.8	81.8	76.7	70.7	92.0
	Pressure @10m	58.7	57.0	55.5	58.7	55.5	49.4	44.4	38.3	59.7
DCC027DR-04BLL0	Power	89.7	87.6	86.1	92.5	88.5	79.5	75.0	69.0	92.6
	Pressure @10m	57.6	55.5	54.0	60.5	56.4	47.4	42.9	36.9	60.6
DCC028DR-06BLL0	Power	91.2	89.3	87.9	92.6	88.8	80.0	75.3	69.2	92.9
	Pressure @10m	58.8	57.0	55.5	60.3	56.4	47.7	43.0	36.9	60.6
DCC030DR-06BLM0	Power	91.1	89.3	87.9	93.8	91.0	79.8	74.8	68.5	94.4
	Pressure @10m	58.7	57.0	55.6	61.5	58.7	47.5	42.5	36.1	62.0
DCC031DR-08BLM0	Power	92.2	90.6	89.2	93.9	91.2	80.3	75.1	68.7	94.6
	Pressure @10m	59.6	58.0	56.6	61.3	58.6	47.7	42.5	36.1	62.0
DCC032DR-06BMM0	Power	90.9	89.3	88.0	94.8	92.5	79.6	74.3	67.5	95.5
	Pressure @10m	58.6	57.0	55.7	62.4	60.1	47.3	41.9	35.2	63.1
DCC033DR-08BMM0	Power	92.1	90.6	89.2	94.8	92.6	80.1	74.6	67.9	95.6
	Pressure @10m	59.5	58.0	56.6	62.2	60.0	47.5	42.0	35.2	63.0
DCC036DR-06BMS0	Power	91.2	89.3	88.0	94.5	91.5	80.5	75.7	69.4	95.0
	Pressure @10m	58.8	57.0	55.6	62.2	59.2	48.2	43.4	37.1	62.6
DCC038DR-10BMS0	Power	93.2	91.5	90.1	94.7	91.8	81.3	76.2	69.8	95.3
	Pressure @10m	60.4	58.7	57.3	61.8	58.9	48.5	43.4	37.0	62.4
DCC039DR-06BSS0	Power	91.4	89.3	87.9	94.3	90.3	81.3	76.8	70.7	94.4
	Pressure @10m	59.1	57.0	55.5	62.0	57.9	48.9	44.4	38.4	62.1
DCC042DR-10BSS0	Power	93.4	91.5	90.1	94.4	90.6	82.0	77.2	71.0	94.7
	Pressure @10m	60.5	58.7	57.3	61.6	57.8	49.1	44.3	38.2	61.9
DCC043DR-08BST0	Power	92.4	90.6	89.2	95.6	92.7	81.4	76.5	70.1	96.1
	Pressure @10m	59.8	58.0	56.6	63.0	60.1	48.8	43.9	37.5	63.5
DCC045DR-10BST0	Power	93.3	91.5	90.2	95.6	92.8	81.8	76.7	70.3	96.2
	Pressure @10m	60.4	58.7	57.3	62.8	60.0	48.9	43.9	37.5	63.4
DCC046DR-08BTT0	Power	92.2	90.6	89.3	96.5	94.2	81.2	75.9	69.2	97.2
	Pressure @10m	59.6	58.0	56.7	63.9	61.6	48.6	43.3	36.6	64.6
DCC048DR-10BTT0	Power	93.1	91.5	90.2	96.6	94.3	81.5	76.2	69.4	97.3
	Pressure @10m	60.3	58.7	57.4	63.7	61.5	48.7	43.3	36.6	64.5
DCC051DR-08BVVO	Power	92.1	90.9	90.0	92.1	92.6	83.4	79.2	82.7	95.2
	Pressure @10m	59.5	58.2	57.4	59.5	60.0	50.8	46.6	50.1	62.6

1 dB(A) is the overall sound level, measured on the A scale.
2 All sound data measured at nominal conditions: Water in/out 12/7°C at 35°C ambient.
3 Based on standard unit, for units fitted with optional pump packages please contact Airedale.

Sound Data
DeltaChill Air Cooled AC Fans Extra Quiet

Model	Sound	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
		dB	dB	dB	dB	dB	dB	dB	dB	dBA
DCC011SX-04AK00	Power	87.3	77.9	77.5	76.2	77.9	70.4	70.0	61.4	80.8
	Pressure @10m	55.2	45.8	45.4	44.1	45.9	38.3	37.9	29.3	48.7
DCC014SX-04AL00	Power	87.7	77.9	77.4	79.1	80.2	69.0	67.6	59.0	82.4
	Pressure @10m	55.6	45.8	45.3	47.0	48.1	36.9	35.5	26.9	50.3
DCC017SX-04AM00	Power	87.3	77.9	78.1	81.3	84.0	68.9	66.2	57.4	85.3
	Pressure @10m	55.2	45.9	46.0	49.2	51.9	36.8	34.1	25.3	53.3
DCC021SX-06BS00	Power	89.4	79.7	79.1	80.8	81.9	70.8	69.3	60.7	84.1
	Pressure @10m	57.1	47.3	46.8	48.5	49.6	38.4	37.0	28.4	51.8
DCC023SX-04BT00	Power	87.4	78.0	78.4	82.8	85.6	69.5	67.5	58.7	86.9
	Pressure @10m	55.3	45.9	46.3	50.8	53.5	37.4	35.4	26.6	54.8
DCC024SX-06BT00	Power	89.1	79.7	79.8	83.1	85.7	70.6	67.9	59.2	87.1
	Pressure @10m	56.7	47.4	47.5	50.7	53.4	38.3	35.6	26.8	54.8
DCC011DX-04ACC0	Power	87.3	77.9	77.5	76.2	77.9	70.4	70.0	61.4	80.8
	Pressure @10m	55.2	45.8	45.4	44.1	45.9	38.3	37.9	29.3	48.7
DCC013DX-04ACD0	Power	87.5	77.9	77.4	77.9	79.2	69.8	68.9	60.4	81.7
	Pressure @10m	55.4	45.8	45.3	45.8	47.1	37.7	36.9	28.3	49.6
DCC014DX-04ADD0	Power	87.7	77.9	77.4	79.1	80.2	69.0	67.6	59.0	82.4
	Pressure @10m	55.6	45.8	45.3	47.0	48.1	36.9	35.5	26.9	50.3
DCC015DX-04ADF0	Power	87.5	77.9	77.7	80.3	82.5	68.9	66.9	58.3	84.1
	Pressure @10m	55.4	45.8	45.6	48.2	50.4	36.9	34.8	26.2	52.0
DCC016DX-04AJJ0	Power	87.1	77.9	77.7	79.6	80.3	69.5	67.7	58.0	82.6
	Pressure @10m	55.0	45.8	45.6	47.6	48.2	37.4	35.6	25.9	50.5
DCC018DX-04BJK0	Power	87.3	77.9	77.6	78.9	80.3	71.0	70.9	62.1	82.8
	Pressure @10m	55.2	45.8	45.6	46.9	48.2	38.9	38.8	30.0	50.7
DCC019DX-04AFK0	Power	87.4	77.9	77.9	80.0	82.5	70.8	70.6	62.0	84.3
	Pressure @10m	55.3	45.9	45.8	47.9	50.4	38.7	38.5	29.9	52.2
DCC020DX-06AFK0	Power	89.0	79.7	79.4	80.4	82.7	71.7	70.8	62.2	84.7
	Pressure @10m	56.7	47.3	47.1	48.0	50.4	39.4	38.5	29.8	52.3
DCC021DX-04AKK0	Power	87.5	78.0	77.6	78.1	80.4	72.1	72.7	64.2	83.0
	Pressure @10m	55.4	45.9	45.6	46.0	48.3	40.1	40.7	32.1	50.9
DCC022DX-06AKK0	Power	89.1	79.7	79.3	78.7	80.7	72.8	72.9	64.3	83.4
	Pressure @10m	56.7	47.3	46.9	46.3	48.3	40.5	40.5	31.9	51.1
DCC024DX-06BKL0	Power	89.4	79.7	79.2	80.5	82.0	72.1	71.8	63.2	84.3
	Pressure @10m	57.0	47.3	46.9	48.2	49.6	39.7	39.4	30.9	52.0
DCC025DX-08BKL0	Power	90.5	80.9	80.4	80.9	82.2	72.8	72.0	63.4	84.7
	Pressure @10m	57.9	48.3	47.8	48.3	49.6	40.2	39.4	30.8	52.1
DCC027DX-06BLL0	Power	89.6	79.7	79.2	81.8	83.0	71.2	70.3	61.7	85.1
	Pressure @10m	57.2	47.3	46.8	49.5	50.6	38.8	38.0	29.4	52.7
DCC028DX-08BLL0	Power	90.7	80.9	80.4	82.1	83.2	72.0	70.6	62.0	85.4
	Pressure @10m	58.1	48.3	47.8	49.5	50.6	39.4	38.0	29.4	52.8
DCC030DX-06BLM0	Power	89.4	79.7	79.6	83.1	85.4	71.1	69.7	61.0	86.9
	Pressure @10m	57.0	47.3	47.3	50.8	53.0	38.8	37.3	28.6	54.6
DCC031DX-08BLM0	Power	90.5	80.9	80.7	83.3	85.5	72.0	69.9	61.3	87.1
	Pressure @10m	57.9	48.3	48.1	50.7	52.9	39.4	37.3	28.7	54.5
DCC032DX-06BMM0	Power	89.1	79.7	80.1	84.2	86.9	71.0	68.9	60.1	88.2
	Pressure @10m	56.8	47.4	47.7	51.8	54.5	38.7	36.5	27.7	55.9
DCC033DX-08BMM0	Power	90.3	81.0	81.1	84.3	87.0	71.9	69.2	60.4	88.4
	Pressure @10m	57.7	48.4	48.5	51.7	54.4	39.3	36.6	27.8	55.8
DCC036DX-08BMS0	Power	90.6	80.9	80.8	83.9	86.0	72.3	70.8	62.2	87.6
	Pressure @10m	58.0	48.3	48.2	51.3	53.4	39.7	38.2	29.6	55.0
DCC038DX-10BMS0	Power	91.5	81.9	81.6	84.1	86.1	72.9	71.0	62.4	87.8
	Pressure @10m	58.7	49.1	48.8	51.2	53.2	40.1	38.2	29.6	54.9
DCC039DX-08BSS0	Power	90.9	80.9	80.4	83.5	84.7	72.6	72.0	63.4	86.7
	Pressure @10m	58.3	48.3	47.8	50.9	52.1	40.0	39.4	30.8	54.1
DCC042DX-12BSS0	Power	92.4	82.7	82.1	83.8	84.9	73.8	72.3	63.7	87.1
	Pressure @10m	59.4	49.6	49.1	50.8	51.9	40.7	39.3	30.7	54.1
DCC043DX-08BST0	Power	90.7	81.0	81.0	84.8	87.1	72.5	71.3	62.7	88.6
	Pressure @10m	58.1	48.4	48.4	52.2	54.5	39.9	38.7	30.1	56.0
DCC045DX-12BST0	Power	92.3	82.7	82.5	85.1	87.2	73.7	71.7	63.0	88.9
	Pressure @10m	59.2	49.6	49.4	52.0	54.2	40.7	38.6	30.0	55.8
DCC046DX-10BTT0	Power	91.3	81.9	82.2	86.0	88.7	73.1	70.8	62.0	90.0
	Pressure @10m	58.5	49.1	49.4	53.1	55.8	40.3	37.9	29.1	57.2
DCC048DX-12BTT0	Power	92.1	82.7	82.8	86.1	88.7	73.7	71.0	62.2	90.1
	Pressure @10m	59.0	49.7	49.8	53.0	55.7	40.6	37.9	29.1	57.1
DCC051DX-10BVVO	Power	91.2	83.5	84.7	82.6	87.2	74.6	73.5	75.2	88.8
	Pressure @10m	58.3	50.7	51.8	49.8	54.4	41.7	40.6	42.4	56.0

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.

Sound Data
DeltaChill Air Cooled EC Fans Regular Quiet

Model	Sound	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
		dB	dB	dB	dB	dB	dB	dB	dB	dBA
DCC011SR-04AK00	Power	87.6	76.6	75.3	84.8	82.6	79.4	74.4	68.5	86.9
	Pressure @10m	55.5	44.5	43.2	52.7	50.5	47.3	42.3	36.4	54.8
DCC014SR-04AL00	Power	87.2	81.2	79.8	89.5	85.5	76.2	71.9	66.0	89.5
	Pressure @10m	55.1	49.1	47.7	57.4	53.4	44.1	39.8	33.9	57.4
DCC017SR-04AM00	Power	87.5	84.5	83.2	91.7	89.6	76.4	71.3	64.9	92.5
	Pressure @10m	55.4	52.4	51.1	59.7	57.5	44.4	39.2	32.8	60.4
DCC021SR-04BS00	Power	94.9	90.7	88.3	91.4	88.1	79.8	74.6	68.7	92.1
	Pressure @10m	62.8	58.6	56.2	59.3	56.0	47.7	42.5	36.6	60.0
DCC023SR-04BT00	Power	101.0	94.3	90.8	93.6	91.7	81.0	74.6	68.0	94.9
	Pressure @10m	68.9	62.2	58.7	61.6	59.6	48.9	42.5	35.9	62.8
DCC024SR-06BT00	Power	89.4	86.5	85.2	93.5	91.3	78.3	73.1	66.7	94.2
	Pressure @10m	57.1	54.2	52.9	61.2	59.0	45.9	40.7	34.3	61.9
DCC011DR-04ACC0	Power	87.6	76.6	75.3	84.8	82.6	79.4	74.4	68.5	86.9
	Pressure @10m	55.5	44.5	43.2	52.7	50.5	47.3	42.3	36.4	54.8
DCC013DR-04ACD0	Power	87.4	79.4	78.1	87.8	84.3	78.1	73.3	67.4	88.4
	Pressure @10m	55.3	47.3	46.0	55.7	52.2	46.0	41.2	35.3	56.3
DCC014DR-04ADD0	Power	87.2	81.0	79.7	89.5	85.5	76.2	71.9	66.0	89.5
	Pressure @10m	55.1	49.0	47.6	57.4	53.4	44.1	39.8	33.9	57.4
DCC015DR-04ADF0	Power	87.4	83.2	81.9	90.8	88.0	76.3	71.6	65.5	91.2
	Pressure @10m	55.3	51.1	49.8	58.7	55.9	44.3	39.5	33.4	59.1
DCC016DR-04AJJ0	Power	87.2	84.2	82.8	88.1	86.0	77.8	74.3	65.3	89.3
	Pressure @10m	55.1	52.1	50.7	56.0	53.9	45.7	42.2	33.3	57.3
DCC018DR-04BJK0	Power	94.5	89.7	87.1	88.2	86.6	81.5	76.5	69.9	90.5
	Pressure @10m	62.4	57.6	55.0	56.1	54.5	49.4	44.4	37.8	58.5
DCC019DR-04AFK0	Power	95.0	90.0	87.4	90.4	88.6	81.3	75.9	69.9	92.0
	Pressure @10m	62.9	57.9	55.3	58.3	56.5	49.2	43.8	37.8	59.9
DCC020DR-06AFK0	Power	89.0	82.1	81.0	90.2	88.0	80.4	75.3	69.3	91.4
	Pressure @10m	56.7	49.8	48.6	57.9	55.7	48.0	43.0	37.0	59.0
DCC021DR-04AKK0	Power	97.5	92.3	89.5	88.4	87.2	83.6	78.0	72.1	91.5
	Pressure @10m	65.5	60.2	57.4	56.3	55.1	51.5	45.9	40.0	59.4
DCC022DR-06AKK0	Power	88.7	84.1	82.8	88.0	86.2	82.6	77.5	71.7	90.3
	Pressure @10m	56.3	51.8	50.5	55.6	53.8	50.3	45.2	39.3	58.0
DCC024DR-04BKL0	Power	99.7	93.4	90.2	91.1	88.4	82.8	77.2	71.2	92.7
	Pressure @10m	67.6	61.4	58.1	59.0	56.3	50.7	45.1	39.1	60.6
DCC025DR-06BKL0	Power	90.8	87.5	85.8	90.9	87.9	81.6	76.6	70.8	91.9
	Pressure @10m	58.4	55.1	53.5	58.5	55.5	49.3	44.3	38.4	59.5
DCC027DR-04BLL0	Power	101.0	94.3	90.8	92.7	89.3	81.7	76.1	70.0	93.6
	Pressure @10m	68.9	62.2	58.7	60.6	57.3	49.6	44.0	37.9	61.5
DCC028DR-06BLL0	Power	92.2	89.3	87.5	92.6	89.1	80.3	75.5	69.6	93.0
	Pressure @10m	59.8	57.0	55.2	60.3	56.7	47.9	43.1	37.3	60.7
DCC030DR-06BLM0	Power	96.1	91.9	89.5	93.9	91.4	80.8	75.4	69.3	94.7
	Pressure @10m	63.8	59.5	57.1	61.5	59.0	48.5	43.1	37.0	62.4
DCC031DR-08BLM0	Power	90.3	86.1	84.9	93.8	91.0	79.3	74.6	68.5	94.2
	Pressure @10m	57.7	53.5	52.3	61.2	58.4	46.7	42.0	35.9	61.6
DCC032DR-06BMM0	Power	98.1	93.4	90.8	94.9	92.8	81.3	75.4	68.9	95.9
	Pressure @10m	65.7	61.0	58.4	62.5	60.5	49.0	43.0	36.6	63.6
DCC033DR-08BMM0	Power	90.5	87.4	86.2	94.8	92.6	79.4	74.3	67.9	95.5
	Pressure @10m	57.9	54.8	53.6	62.2	60.0	46.8	41.7	35.3	62.9
DCC036DR-06BMS0	Power	101.2	95.0	91.8	94.7	92.1	82.6	76.8	70.6	95.7
	Pressure @10m	68.8	62.7	59.5	62.3	59.7	50.2	44.5	38.3	63.3
DCC038DR-10BMS0	Power	91.6	87.3	85.9	94.5	91.6	80.4	75.7	69.6	94.9
	Pressure @10m	58.8	54.4	53.1	61.7	58.8	47.5	42.9	36.8	62.1
DCC039DR-06BSS0	Power	102.8	96.0	92.5	94.5	91.1	83.5	77.8	71.8	95.4
	Pressure @10m	70.4	63.7	60.2	62.1	58.7	51.1	45.5	39.4	63.0
DCC042DR-10BSS0	Power	92.2	89.1	87.6	94.3	90.6	81.6	77.0	71.1	94.6
	Pressure @10m	59.4	56.3	54.8	61.5	57.8	48.7	44.2	38.3	61.7
DCC043DR-08BST0	Power	102.0	95.9	92.8	95.7	93.2	83.4	77.6	71.4	96.7
	Pressure @10m	69.4	63.3	60.2	63.1	60.6	50.8	45.0	38.8	64.1
DCC045DR-10BST0	Power	94.7	91.6	89.7	95.6	93.0	82.0	76.9	70.8	96.3
	Pressure @10m	61.9	58.7	56.9	62.8	60.2	49.1	44.0	37.9	63.4
DCC046DR-08BTT0	Power	104.0	97.3	93.8	96.7	94.7	84.0	77.6	71.0	97.9
	Pressure @10m	71.4	64.7	61.2	64.1	62.1	51.4	45.0	38.4	65.3
DCC048DR-10BTT0	Power	96.2	93.1	91.1	96.6	94.5	82.3	76.7	70.4	97.5
	Pressure @10m	63.4	60.2	58.3	63.7	61.7	49.5	43.9	37.5	64.7
DCC051DR-08BVVO	Power	104.0	97.3	94.1	92.4	93.2	85.3	80.1	82.8	96.2
	Pressure @10m	71.4	64.7	61.5	59.8	60.6	52.7	47.5	50.2	63.6

1 dB(A) is the overall sound level, measured on the A scale.
2 All sound data measured at nominal conditions: Water in/out 12/7°C at 35°C ambient.
3 Based on standard unit, for units fitted with optional pump packages please contact Airedale.

Sound Data
DeltaChill Air Cooled EC Fans Extra Quiet

Model	Sound	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
		dB	dB	dB	dB	dB	dB	dB	dB	dBA
DCC011SX-04AK00	Power	88.9	73.8	72.5	75.3	77.6	68.8	69.7	61.3	80.0
	Pressure @10m	56.8	41.7	40.4	43.2	45.5	36.7	37.6	29.2	47.9
DCC014SX-04AL00	Power	89.2	73.8	72.2	78.6	79.9	66.6	67.0	58.7	81.8
	Pressure @10m	57.1	41.7	40.1	46.5	47.8	34.5	34.9	26.6	49.7
DCC017SX-04AM00	Power	89.0	73.9	74.1	81.0	83.9	66.3	65.4	57.1	85.1
	Pressure @10m	56.9	41.8	42.1	48.9	51.8	34.3	33.3	25.0	53.0
DCC021SX-06BS00	Power	91.0	75.6	73.9	80.4	81.7	68.3	68.8	60.5	83.6
	Pressure @10m	58.6	43.2	41.6	48.0	49.3	36.0	36.4	28.1	51.2
DCC023SX-04BT00	Power	89.0	73.9	75.0	82.7	85.6	67.3	67.0	58.5	86.7
	Pressure @10m	56.9	41.8	42.9	50.6	53.5	35.2	34.9	26.4	54.6
DCC024SX-06BT00	Power	90.7	75.6	75.9	82.8	85.6	68.1	67.2	58.8	86.8
	Pressure @10m	58.4	43.3	43.6	50.4	53.3	35.8	34.8	26.5	54.5
DCC011DX-04ACC0	Power	88.9	73.8	72.5	75.3	77.6	68.8	69.7	61.3	80.0
	Pressure @10m	56.8	41.7	40.4	43.2	45.5	36.7	37.6	29.2	47.9
DCC013DX-04ACD0	Power	89.1	73.8	72.3	77.2	78.9	67.8	68.5	60.2	81.0
	Pressure @10m	57.0	41.7	40.2	45.1	46.8	35.7	36.5	28.1	48.9
DCC014DX-04ADD0	Power	89.2	73.8	72.2	78.6	79.9	66.6	67.0	58.7	81.8
	Pressure @10m	57.1	41.7	40.1	46.5	47.8	34.5	34.9	26.6	49.7
DCC015DX-04ADF0	Power	89.1	73.8	73.3	80.0	82.3	66.5	66.3	58.0	83.8
	Pressure @10m	57.0	41.7	41.2	47.9	50.2	34.4	34.2	25.9	51.7
DCC016DX-04AJJ0	Power	88.8	73.8	73.0	79.2	80.0	67.4	67.1	57.6	82.1
	Pressure @10m	56.7	41.7	41.0	47.1	48.0	35.3	35.0	25.6	50.0
DCC018DX-04BJK0	Power	88.9	73.8	73.0	78.5	80.1	69.6	70.7	62.0	82.3
	Pressure @10m	56.9	41.8	40.9	46.4	48.0	37.6	38.6	29.9	50.2
DCC019DX-04AFK0	Power	89.0	73.9	73.6	79.6	82.4	69.4	70.3	61.9	84.0
	Pressure @10m	56.9	41.8	41.5	47.5	50.3	37.3	38.2	29.8	51.9
DCC020DX-06AFK0	Power	90.7	75.6	74.9	79.9	82.5	69.9	70.4	62.0	84.2
	Pressure @10m	58.3	43.2	42.5	47.5	50.2	37.5	38.1	29.7	51.8
DCC021DX-04AKK0	Power	89.1	73.9	73.0	77.5	80.1	71.1	72.6	64.1	82.5
	Pressure @10m	57.0	41.8	40.9	45.4	48.1	39.0	40.5	32.0	50.4
DCC022DX-06AKK0	Power	90.7	75.6	74.4	77.9	80.4	71.5	72.6	64.2	82.8
	Pressure @10m	58.4	43.3	42.1	45.6	48.0	39.1	40.3	31.8	50.4
DCC024DX-06BKL0	Power	90.9	75.6	74.2	80.0	81.8	70.4	71.5	63.1	83.8
	Pressure @10m	58.6	43.2	41.9	47.7	49.4	38.1	39.1	30.7	51.5
DCC025DX-08BKL0	Power	92.1	76.8	75.3	80.2	81.9	70.8	71.6	63.2	84.0
	Pressure @10m	59.5	44.2	42.7	47.6	49.3	38.2	39.0	30.6	51.4
DCC027DX-06BLL0	Power	91.1	75.6	74.0	81.4	82.8	69.0	69.9	61.6	84.7
	Pressure @10m	58.7	43.2	41.7	49.1	50.5	36.7	37.6	29.2	52.3
DCC028DX-08BLL0	Power	92.2	76.8	75.2	81.6	82.9	69.6	70.0	61.7	84.8
	Pressure @10m	59.6	44.2	42.6	49.0	50.3	37.0	37.4	29.1	52.2
DCC030DX-06BLM0	Power	90.9	75.6	75.4	82.9	85.3	68.9	69.2	60.8	86.7
	Pressure @10m	58.6	43.3	43.1	50.5	52.9	36.5	36.8	28.4	54.3
DCC031DX-08BLM0	Power	92.1	76.8	76.3	83.0	85.3	69.5	69.3	61.0	86.8
	Pressure @10m	59.5	44.2	43.7	50.4	52.7	36.9	36.7	28.4	54.2
DCC032DX-06BMM0	Power	90.8	75.7	76.5	83.9	86.8	68.8	68.3	59.8	88.0
	Pressure @10m	58.4	43.3	44.1	51.6	54.5	36.4	35.9	27.4	55.7
DCC033DX-08BMM0	Power	92.0	76.9	77.2	84.0	86.9	69.4	68.4	60.1	88.1
	Pressure @10m	59.4	44.3	44.6	51.4	54.3	36.8	35.8	27.5	55.5
DCC036DX-08BMS0	Power	92.2	76.9	76.3	83.6	85.9	70.0	70.3	61.9	87.3
	Pressure @10m	59.6	44.3	43.7	51.0	53.3	37.4	37.7	29.3	54.7
DCC038DX-10BMS0	Power	93.1	77.8	77.1	83.7	85.9	70.5	70.4	62.1	87.4
	Pressure @10m	60.2	45.0	44.2	50.9	53.1	37.6	37.6	29.3	54.6
DCC039DX-08BSS0	Power	92.4	76.8	75.3	83.1	84.5	70.6	71.6	63.3	86.4
	Pressure @10m	59.8	44.2	42.7	50.5	51.9	38.0	39.0	30.7	53.8
DCC042DX-12BSS0	Power	94.0	78.6	76.9	83.4	84.7	71.3	71.8	63.5	86.6
	Pressure @10m	60.9	45.5	43.9	50.3	51.6	38.3	38.7	30.4	53.5
DCC043DX-08BST0	Power	92.2	76.9	76.8	84.6	87.0	70.5	70.9	62.5	88.4
	Pressure @10m	59.6	44.3	44.2	52.0	54.4	37.9	38.3	29.9	55.8
DCC045DX-12BST0	Power	93.8	78.6	78.0	84.7	87.1	71.2	71.0	62.7	88.5
	Pressure @10m	60.8	45.5	45.0	51.7	54.0	38.2	38.0	29.7	55.5
DCC046DX-10BTT0	Power	93.0	77.9	78.5	85.7	88.6	70.7	70.1	61.6	89.8
	Pressure @10m	60.1	45.0	45.6	52.9	55.8	37.9	37.2	28.8	57.0
DCC048DX-12BTT0	Power	93.7	78.6	78.9	85.8	88.6	71.1	70.2	61.8	89.9
	Pressure @10m	60.7	45.6	45.9	52.7	55.6	38.1	37.1	28.8	56.8
DCC051DX-10BVVO	Power	92.9	81.1	83.0	82.1	87.1	73.0	73.1	75.2	88.5
	Pressure @10m	60.0	48.3	50.1	49.3	54.3	40.2	40.3	42.4	55.7

1 dB(A) is the overall sound level, measured on the A scale.
2 All sound data measured at nominal conditions: Water in/out 12/7°C at 35°C ambient.
3 Based on 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

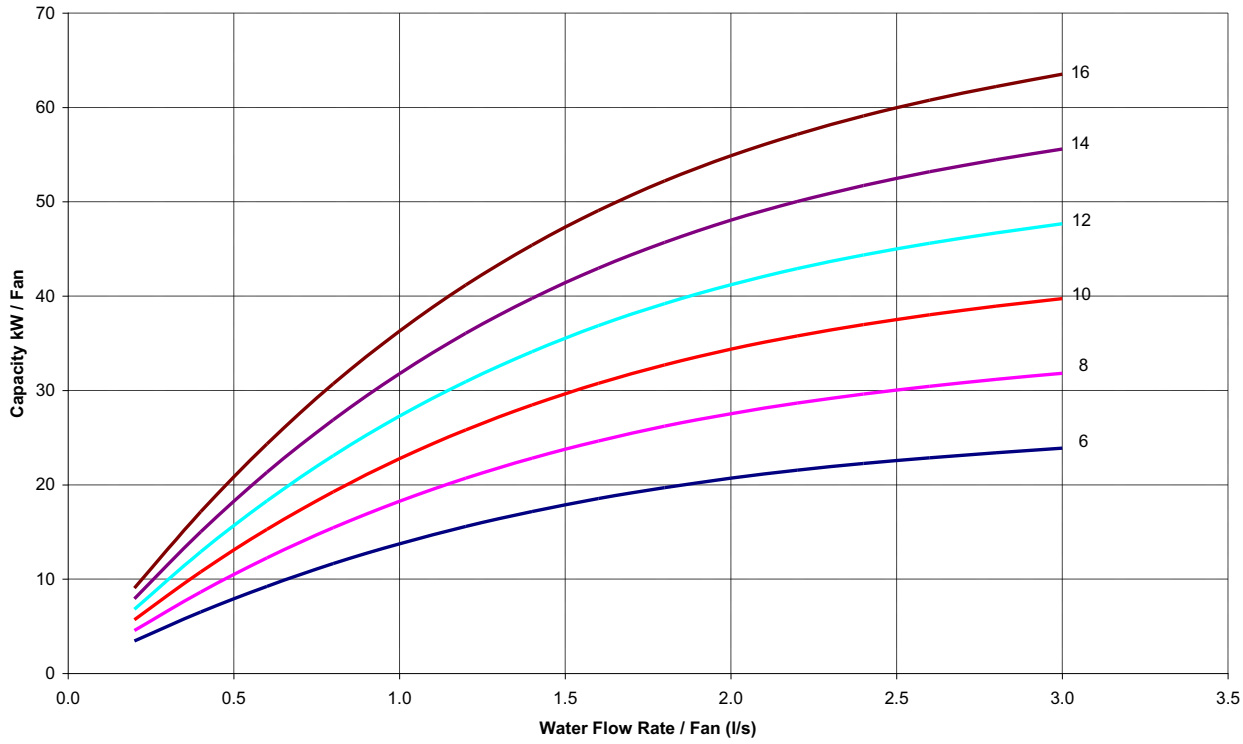
Return water temperature 15°C
Temperature difference from ambient to return water temperature 10°C
Therefore ambient 5°C

DCF014SR-04AL00 chiller having 4 fans equates to

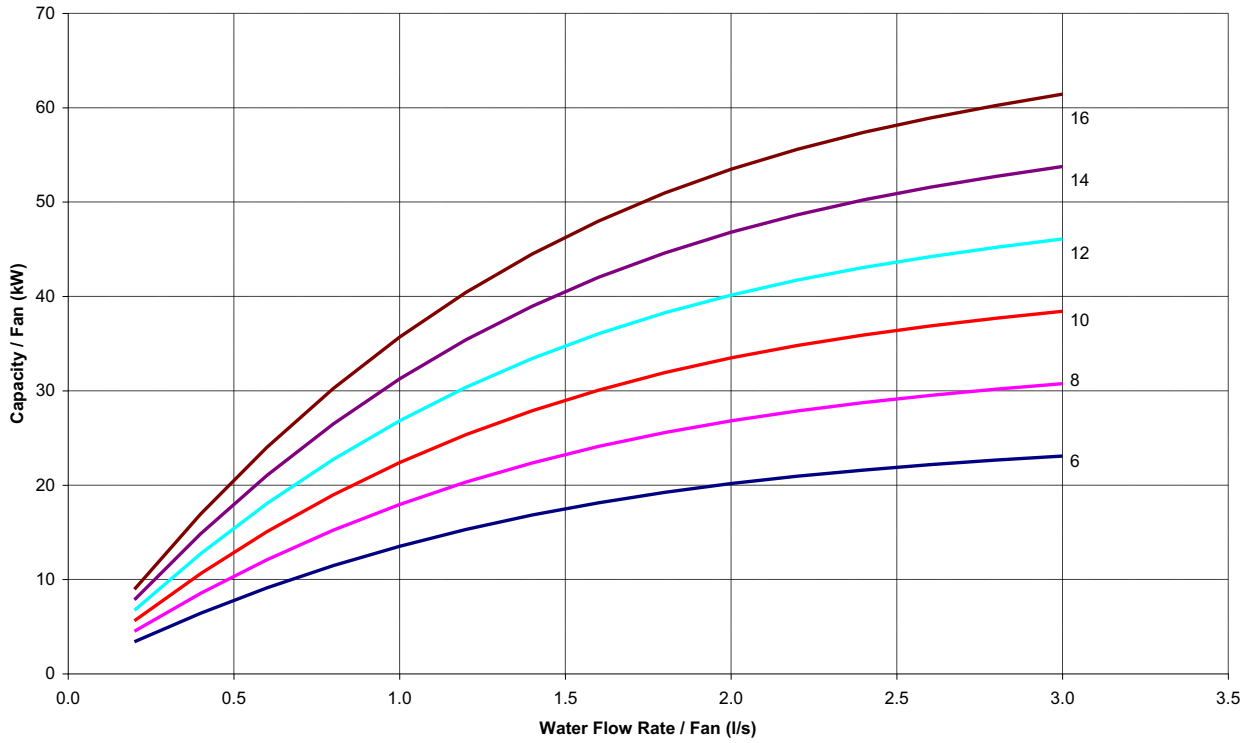
Cooling capacity	35kW x 4	=	140kW*
Flowrate	2 l/s x 4	=	8 l/s*

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

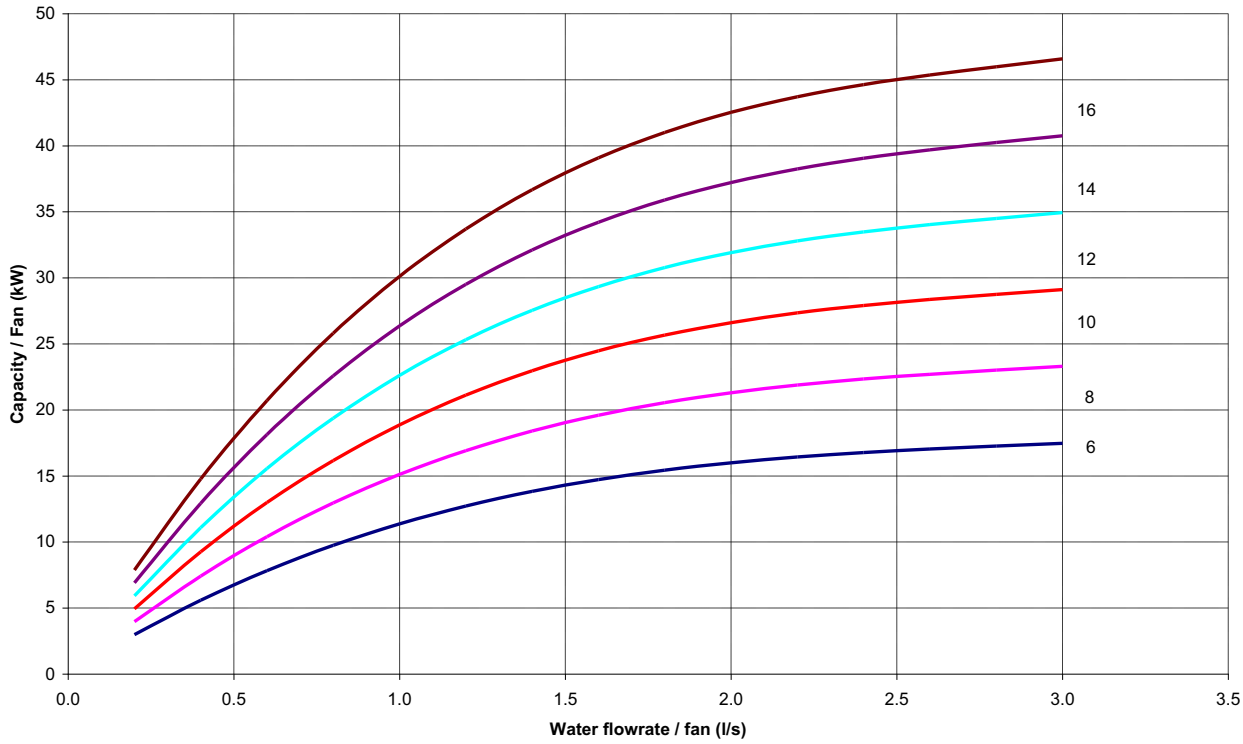
High Airflow EC Fans



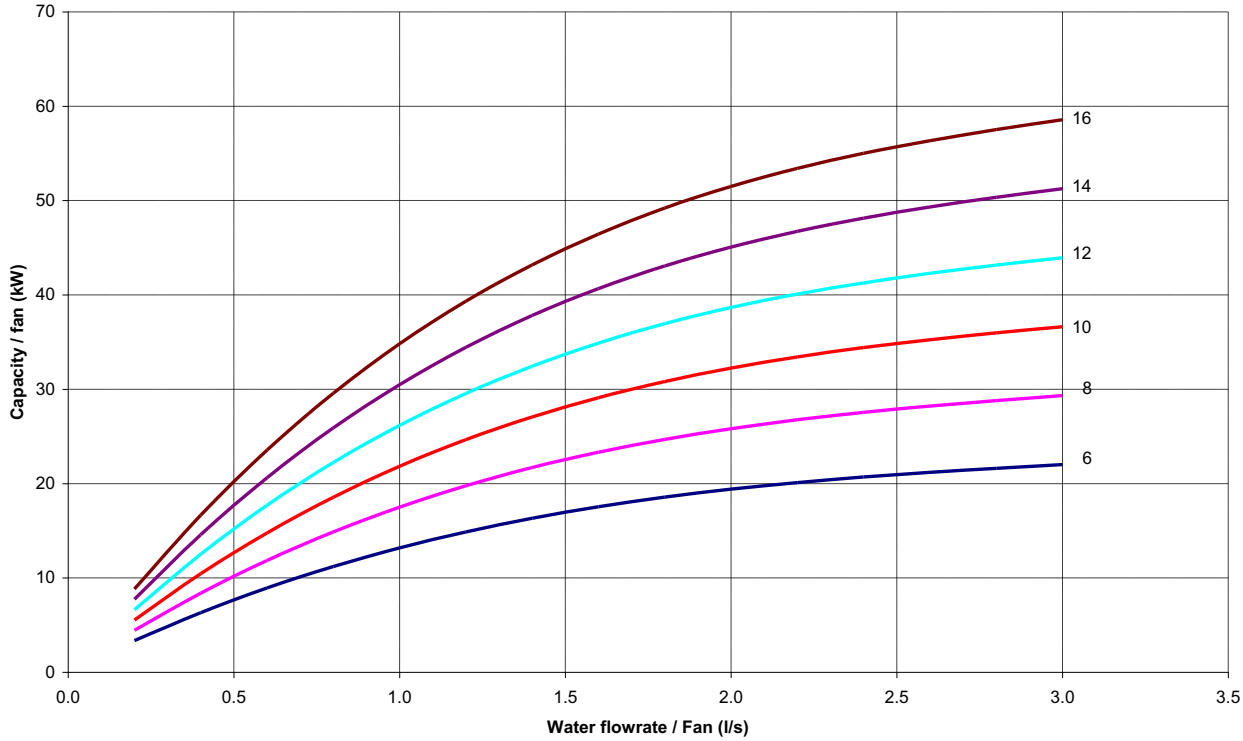
EC Fans Regular Quiet



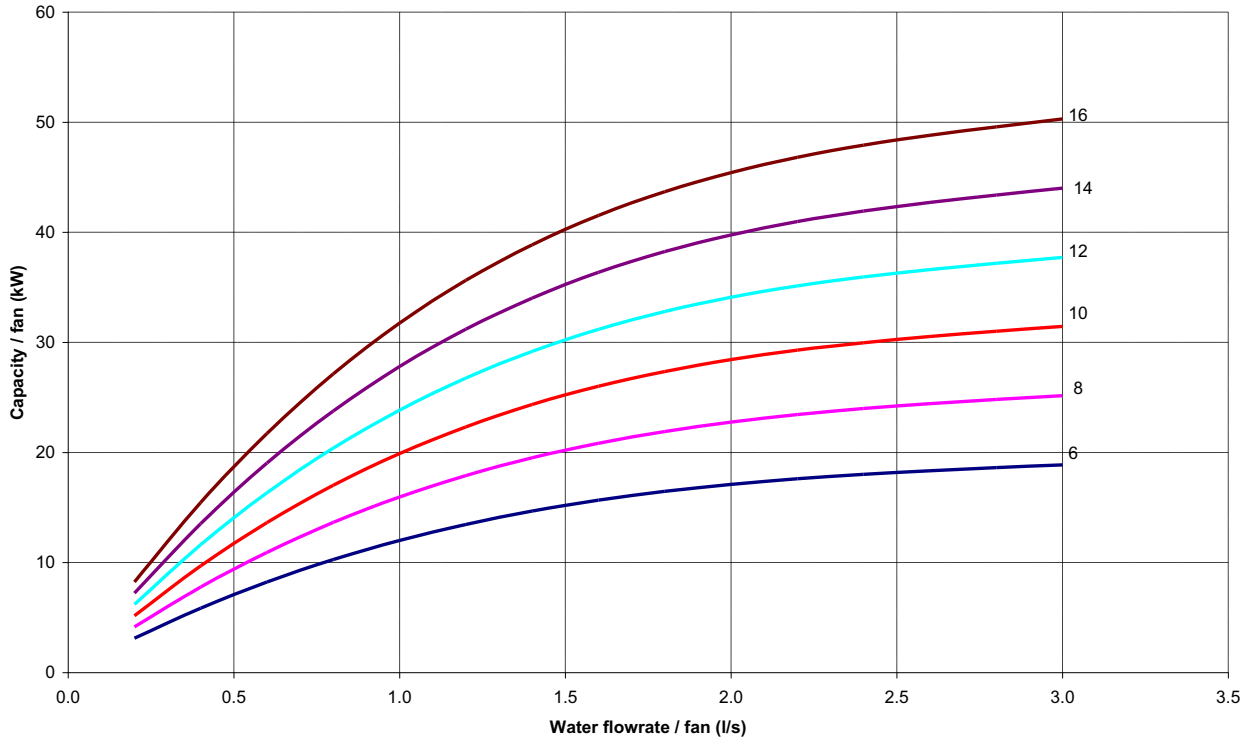
EC Fans Extra Quiet



AC Fans Regular noise level



AC Fans Extra Quiet



Mechanical Cooling Performance AC Fans Regular

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF014SR-04AL00	6	149.4	38.3	142.1	41.8	134.1	45.8	125.5	50.2
	7	154.1	38.5	146.6	42.1	138.4	46.1	129.6	50.4
	8	158.9	38.8	151.1	42.4	142.7	46.3	133.7	50.7
	10	168.6	39.3	160.5	42.9	151.7	46.8	142.2	51.3
	12	178.7	39.8	170.1	43.4	160.9	47.4	150.9	51.8
	14	189.0	40.3	180.0	43.9	170.4	48.0	160.0	52.4
DCF017SR-04AM00	6	174.4	46.0	165.5	50.2	156.1	54.8	146.1	60.0
	7	179.7	46.4	170.6	50.6	161.0	55.2	150.7	60.4
	8	185.2	46.7	175.9	51.0	165.9	55.6	155.4	60.8
	10	196.5	47.5	186.6	51.7	176.1	56.4	165.1	61.6
	12	208.0	48.2	197.6	52.5	186.7	57.2	175.1	62.5
	14	219.9	49.0	209.1	53.4	197.3	58.0	185.4	63.3
DCF021SR-04BS00	6	213.8	62.1	203.0	67.8	191.6	74.1	179.4	81.1
	7	220.2	62.6	209.3	68.3	197.6	74.6	184.9	81.5
	8	226.9	63.0	215.7	68.8	203.7	75.1	190.4	81.9
	10	240.7	64.0	228.9	69.8	216.3	76.1	201.7	82.7
	12	254.8	65.0	242.5	70.8	229.3	77.1	213.4	83.6
	14	269.4	66.0	256.5	71.8	242.1	78.0	225.4	84.5
DCF025SR-06BT00	6	256.9	69.8	243.7	76.2	229.6	83.2	214.7	91.1
	7	264.8	70.3	251.2	76.7	236.8	83.8	221.4	91.7
	8	272.8	70.9	258.8	77.3	244.0	84.4	228.3	92.3
	10	289.3	72.0	274.5	78.5	258.9	85.6	242.5	93.5
	12	306.2	73.1	290.7	79.7	274.4	86.8	257.1	94.8
	14	323.6	74.3	307.4	80.9	289.9	88.0	272.1	96.1

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

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF013DR-04ACD0	6	137.7	35.5	131.0	38.5	123.8	42.0	116.0	45.8
	7	142.1	35.6	135.2	38.7	127.8	42.1	119.7	45.9
	8	146.5	35.8	139.4	38.9	131.9	42.3	123.5	46.1
	10	155.6	36.2	148.1	39.3	140.2	42.7	131.3	46.5
	12	164.9	36.7	157.1	39.7	148.7	43.1	139.2	46.8
	14	174.6	37.1	166.4	40.2	157.4	43.5	147.4	47.2
DCF014DR-04ADD0	6	152.6	40.5	145.0	43.9	136.7	47.5	127.7	51.6
	7	157.3	40.7	149.5	44.0	141.0	47.7	131.7	51.8
	8	162.1	40.9	154.1	44.2	145.3	47.9	135.8	52.0
	10	172.0	41.3	163.5	44.6	154.2	48.3	144.2	52.4
	12	182.1	41.7	173.2	45.0	163.4	48.7	152.8	52.8
	14	192.5	42.1	183.1	45.5	172.9	49.2	161.7	53.3
DCF015DR-04ADF0	6	165.6	44.2	157.0	47.9	147.7	51.9	137.7	56.3
	7	170.7	44.5	161.9	48.1	152.3	52.1	142.0	56.6
	8	175.9	44.7	166.8	48.4	156.9	52.4	146.3	56.9
	10	186.4	45.2	176.8	48.9	166.4	52.9	155.2	57.4
	12	197.2	45.7	187.1	49.4	176.2	53.5	164.4	58.0
	14	208.4	46.3	197.7	50.0	186.2	54.1	173.8	58.6
DCF016DR-04AJJ0	6	171.8	46.1	162.6	50.0	152.8	54.5	142.3	59.4
	7	177.2	46.3	167.7	50.3	157.7	54.7	146.9	59.7
	8	182.7	46.5	173.0	50.5	162.6	55.0	151.6	59.9
	10	193.9	47.1	183.6	51.1	172.7	55.5	161.0	60.5
	12	205.4	47.6	194.6	51.7	183.1	56.1	170.8	61.1
	14	217.2	48.2	205.8	52.2	193.3	56.8	180.8	61.8
DCF018DR-04BJK0	6	198.0	55.0	187.0	60.0	175.3	65.6	162.7	71.9
	7	204.0	55.3	192.6	60.4	180.6	66.0	167.8	72.3
	8	210.0	55.7	198.4	60.8	186.1	66.4	172.9	72.7
	10	222.4	56.5	210.2	61.6	197.1	67.2	183.2	73.5
	12	235.1	57.3	222.2	62.4	208.5	68.1	193.9	74.4
	14	248.1	58.2	234.5	63.3	220.2	69.0	204.8	75.3
DCF020DR-06BFK0	6	209.3	54.2	198.8	59.1	187.7	64.4	176.0	70.5
	7	215.9	54.6	205.1	59.4	193.7	64.8	181.6	70.7
	8	222.5	54.9	211.5	59.7	199.8	65.1	187.2	71.0
	10	236.2	55.6	224.5	60.4	212.3	65.8	198.8	71.7
	12	250.2	56.3	238.0	61.1	225.1	66.5	210.7	72.3
	14	264.8	57.0	252.0	61.8	238.1	67.1	223.0	73.0

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF023DR-06BKK0	6	236.0	61.4	223.6	67.0	210.5	73.2	196.6	80.2
	7	243.2	61.7	230.5	67.3	217.0	73.5	202.7	80.5
	8	250.5	62.1	237.5	67.6	223.7	73.9	209.0	80.9
	10	265.5	62.8	251.8	68.4	237.3	74.6	221.8	81.6
	12	281.0	63.6	266.6	69.2	251.3	75.4	235.1	82.4
	14	296.8	64.5	281.7	70.0	265.7	76.2	248.7	83.2
DCF026DR-06BKL0	6	267.1	72.1	252.7	78.3	237.4	85.3	220.8	93.1
	7	275.2	72.5	260.4	78.8	244.6	85.8	227.7	93.5
	8	283.4	72.9	268.3	79.2	252.0	86.2	234.6	94.0
	10	300.2	73.8	284.2	80.1	267.1	87.1	248.8	94.9
	12	317.4	74.8	300.6	81.1	282.7	88.1	263.4	95.9
	14	335.1	75.8	317.5	82.1	298.6	89.1	278.4	96.9
DCF029DR-06BLL0	6	292.9	82.5	277.1	89.5	260.0	97.2	241.4	105.8
	7	301.7	83.0	285.5	90.0	267.8	97.7	248.7	106.3
	8	310.6	83.5	293.9	90.5	275.8	98.3	256.1	106.9
	10	328.8	84.5	311.2	91.6	292.1	99.4	271.4	108.0
	12	347.5	85.6	328.9	92.7	308.8	100.5	287.0	109.2
	14	366.6	86.7	347.0	93.8	325.9	101.7	303.0	110.4
DCF032DR-08BLM0	6	328.7	88.4	311.7	95.7	293.3	103.7	273.4	112.6
	7	338.7	88.9	321.2	96.2	302.3	104.3	281.9	113.2
	8	348.9	89.4	330.9	96.7	311.5	104.8	290.5	113.7
	10	369.7	90.4	350.7	97.8	330.2	105.9	308.0	114.8
	12	391.1	91.4	371.1	98.8	349.5	107.0	326.1	116.0
	14	413.0	92.4	392.0	99.9	369.2	108.1	344.7	117.2
DCF035DR-08BMM0	6	350.7	95.3	332.2	103.2	312.3	111.9	290.9	121.5
	7	361.3	95.8	342.2	103.8	321.8	112.5	299.8	122.2
	8	372.0	96.4	352.4	104.5	331.4	113.2	308.8	122.8
	10	393.9	97.7	373.2	105.7	351.0	114.5	327.1	124.2
	12	416.3	98.9	394.5	107.1	371.1	115.9	346.0	125.7
	14	439.4	100.2	416.4	108.4	391.8	117.3	365.4	127.1
DCF039DR-10BMS0	6	405.2	109.1	384.1	118.1	361.3	128.1	336.7	139.0
	7	417.5	109.7	395.9	118.7	372.5	128.7	347.2	139.7
	8	430.1	110.2	407.9	119.4	383.8	129.3	357.8	140.3
	10	455.8	111.4	432.3	120.6	407.0	130.6	379.5	141.7
	12	482.3	112.7	457.5	121.9	430.8	132.0	401.9	143.1
	14	509.4	113.9	483.4	123.2	455.2	133.4	424.9	144.5
DCF044DR-10BSS0	6	444.9	123.0	421.4	133.3	396.0	144.7	368.4	157.3
	7	458.4	123.6	434.3	134.0	408.1	145.4	379.7	158.1
	8	472.1	124.3	447.4	134.7	420.5	146.1	391.3	158.8
	10	500.2	125.7	474.0	136.1	445.7	147.6	414.9	160.4
	12	529.0	127.1	501.4	137.6	471.6	149.2	439.2	161.9
	14	558.5	128.6	529.5	139.1	498.1	150.7	464.2	163.6

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Mechanical Cooling Performance AC Fans Extra Quiet

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF014SX-04AL00	6	148.9	39.9	141.1	43.3	132.5	47.2	123.1	51.4
	7	153.5	40.1	145.4	43.6	136.5	47.4	126.9	51.7
	8	158.1	40.3	149.8	43.8	140.7	47.7	130.8	51.9
	10	167.5	40.8	158.7	44.3	149.1	48.2	138.7	52.5
	12	177.2	41.3	167.9	44.8	157.8	48.7	146.8	53.0
	14	187.1	41.8	177.3	45.3	166.7	49.2	155.1	53.6
DCF017SX-04AM00	6	171.9	47.4	162.3	51.5	151.9	56.0	140.8	61.1
	7	177.0	47.8	167.1	51.9	156.4	56.4	145.0	61.5
	8	182.2	48.1	172.0	52.3	161.0	56.8	149.2	61.9
	10	192.7	48.9	181.9	53.1	170.3	57.6	157.8	62.7
	12	203.4	49.6	192.0	53.9	179.8	58.5	166.7	63.6
	14	214.4	50.4	202.4	54.7	189.5	59.4	175.8	64.5
DCF021SX-06BS00	6	220.0	59.8	208.4	65.0	195.8	70.7	182.1	77.1
	7	226.6	60.1	214.7	65.3	201.8	71.1	187.6	77.5
	8	233.4	60.5	221.2	65.7	207.8	71.5	193.3	77.9
	10	247.2	61.1	234.3	66.4	220.2	72.2	204.9	78.7
	12	261.4	61.8	247.8	67.1	232.9	73.0	216.8	79.5
	14	276.0	62.6	261.6	67.9	246.0	73.8	229.1	80.3
DCF025SX-06BT00	6	253.3	71.9	238.9	78.1	223.5	85.0	206.8	92.7
	7	260.7	72.4	246.0	78.7	230.0	85.6	212.9	93.3
	8	268.3	73.0	253.1	79.3	236.7	86.2	219.1	93.9
	10	283.7	74.1	267.6	80.4	250.3	87.4	231.7	95.2
	12	299.4	75.2	282.4	81.6	264.2	88.7	244.7	96.5
	14	315.5	76.4	297.6	82.9	278.4	90.0	257.9	97.8

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Mechanical Cooling Performance AC Fans Extra Quiet

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF013DX-04ACD0	6	135.9	34.7	128.8	37.7	121.1	41.2	112.8	45.0
	7	140.1	34.9	132.8	37.9	124.9	41.4	116.4	45.2
	8	144.4	35.1	136.9	38.1	128.7	41.6	120.0	45.4
	10	153.1	35.5	145.1	38.6	136.6	42.0	127.3	45.9
	12	162.0	35.9	153.6	39.0	144.6	42.5	134.9	46.3
	14	171.2	36.4	162.3	39.5	152.9	42.9	142.7	46.8
DCF014DX-04ADD0	6	149.4	39.7	141.6	43.1	133.0	46.9	123.7	51.1
	7	154.0	39.9	145.9	43.3	137.1	47.2	127.5	51.4
	8	158.6	40.1	150.3	43.6	141.3	47.4	131.4	51.6
	10	168.0	40.6	159.3	44.1	149.7	47.9	139.3	52.2
	12	177.7	41.1	168.5	44.6	158.4	48.4	147.5	52.7
	14	187.7	41.6	177.9	45.1	167.3	49.0	155.9	53.3
DCF015DX-04ADF0	6	161.7	43.7	152.8	47.4	143.3	51.6	132.9	56.2
	7	166.5	44.0	157.4	47.7	147.6	51.9	136.9	56.6
	8	171.5	44.2	162.1	48.0	152.0	52.2	141.0	56.9
	10	181.5	44.9	171.6	48.7	160.9	52.9	149.3	57.6
	12	191.8	45.5	181.4	49.3	170.1	53.6	157.9	58.3
	14	202.3	46.1	191.3	50.0	179.4	54.3	166.7	59.0
DCF016DX-04AJJ0	6	167.4	45.7	158.0	49.9	147.9	54.5	137.2	59.7
	7	172.6	46.0	162.9	50.2	152.6	54.8	141.5	60.0
	8	177.8	46.3	167.8	50.5	157.2	55.1	145.8	60.3
	10	188.4	46.9	178.0	51.1	166.7	55.8	154.7	61.0
	12	199.4	47.6	188.3	51.9	176.5	56.6	163.8	61.8
	14	210.5	48.3	198.9	52.6	186.4	57.3	173.1	62.6
DCF018DX-04BJK0	6	191.7	55.6	180.4	60.9	168.3	66.9	155.3	73.5
	7	197.3	56.1	185.7	61.4	173.3	67.3	160.0	74.0
	8	202.9	56.6	191.1	61.9	178.2	67.9	164.7	74.5
	10	214.6	57.5	202.0	62.9	188.6	68.9	174.2	75.5
	12	226.5	58.5	213.2	63.9	199.1	69.9	183.9	76.6
	14	238.6	59.5	224.6	65.0	209.8	71.0	193.9	77.8
DCF020DX-06BFK0	6	206.4	53.3	195.4	58.1	183.7	63.5	171.1	69.5
	7	212.7	53.6	201.4	58.4	189.3	63.8	176.4	69.9
	8	219.0	53.9	207.5	58.8	195.1	64.2	181.8	70.2
	10	232.0	54.6	219.8	59.5	206.8	64.9	192.7	71.0
	12	245.4	55.3	232.6	60.2	218.8	65.7	204.0	71.8
	14	259.1	56.1	245.6	61.0	231.2	66.5	215.7	72.6
DCF023DX-06BKK0	6	230.6	60.4	218.0	66.2	204.6	72.8	190.3	80.1
	7	237.5	60.8	224.6	66.6	210.9	73.2	196.2	80.5
	8	244.6	61.2	231.3	67.0	217.2	73.6	202.1	80.9
	10	258.9	62.1	245.0	67.9	230.1	74.5	214.2	81.8
	12	273.7	63.0	259.0	68.8	243.4	75.4	226.7	82.8
	14	288.8	64.0	273.4	69.8	257.0	76.4	239.5	83.8

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF026DX-08BKL0	6	270.4	69.6	256.2	75.8	240.8	82.7	224.3	90.4
	7	278.7	70.0	264.1	76.2	248.3	83.1	231.3	90.8
	8	287.1	70.4	272.1	76.6	255.9	83.5	238.4	91.2
	10	304.3	71.2	288.4	77.4	271.3	84.3	252.9	92.1
	12	321.9	72.1	305.2	78.3	287.3	85.2	267.9	93.0
	14	340.1	73.0	322.5	79.2	303.6	86.2	283.3	94.0
DCF029DX-08BLL0	6	296.9	79.7	281.3	86.6	264.2	94.3	245.6	102.8
	7	305.9	80.2	289.8	87.1	272.2	94.8	253.1	103.3
	8	315.1	80.6	298.5	87.6	280.4	95.2	260.8	103.8
	10	333.7	81.5	316.2	88.5	297.2	96.3	276.4	104.8
	12	352.9	82.5	334.5	89.5	314.3	97.3	292.5	105.9
	14	372.6	83.5	353.1	90.6	332.0	98.4	309.1	107.1
DCF032DX-08BLM0	6	321.0	87.3	303.5	94.8	284.5	103.2	264.0	112.5
	7	330.5	87.9	312.5	95.4	293.0	103.8	271.9	113.1
	8	340.3	88.4	321.8	96.1	301.7	104.5	280.0	113.8
	10	360.1	89.6	340.5	97.3	319.3	105.8	296.5	115.1
	12	380.4	90.9	359.8	98.6	337.4	107.1	313.4	116.6
	14	401.2	92.2	379.5	100.0	356.0	108.5	330.7	118.0
DCF035DX-08BMM0	6	341.7	94.7	322.7	102.9	302.2	111.9	280.1	122.0
	7	351.7	95.4	332.2	103.6	311.1	112.7	288.4	122.8
	8	361.9	96.1	341.8	104.4	320.1	113.5	296.8	123.6
	10	382.7	97.6	361.4	105.9	338.5	115.1	313.9	125.3
	12	404.0	99.1	381.5	107.5	357.3	116.8	331.4	127.0
	14	425.7	100.6	402.0	109.2	376.6	118.5	349.4	128.8
DCF039DX-10BMS0	6	395.8	107.4	374.2	116.7	350.8	127.0	325.5	138.4
	7	407.6	108.1	385.5	117.4	361.4	127.7	335.4	139.2
	8	419.7	108.8	396.9	118.2	372.1	128.5	345.4	140.0
	10	444.2	110.3	420.1	119.7	394.0	130.1	365.8	141.6
	12	469.4	111.8	444.0	121.3	416.4	131.7	386.8	143.3
	14	495.2	113.3	468.4	122.9	439.4	133.4	408.3	145.1
DCF044DX-12BSS0	6	444.6	119.8	421.1	130.2	395.4	141.7	367.4	154.5
	7	458.1	120.5	433.9	130.9	407.5	142.4	378.7	155.2
	8	471.8	121.2	446.9	131.6	419.8	143.2	390.2	156.0
	10	499.8	122.5	473.5	133.0	444.8	144.7	413.7	157.6
	12	528.6	124.0	500.8	134.5	470.6	146.3	437.8	159.2
	14	558.1	125.5	528.8	136.1	497.0	147.9	462.6	160.9

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

Mechanical Cooling EC Fans Regular Quiet

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF014SR-04AL00	6	149.2	38.5	141.9	42.1	134.0	46.1	125.4	50.5
	7	153.9	38.8	146.4	42.3	138.2	46.3	129.5	50.7
	8	158.7	39.0	150.9	42.6	142.6	46.6	133.6	51.0
	10	168.4	39.5	160.3	43.1	151.5	47.1	142.0	51.6
	12	178.5	40.1	169.9	43.7	160.7	47.7	150.8	52.2
	14	188.8	40.6	179.9	44.2	170.2	48.3	159.9	52.7
DCF017SR-04AM00	6	174.2	46.3	165.3	50.5	156.0	55.1	146.0	60.3
	7	179.6	46.7	170.5	50.9	160.8	55.5	150.6	60.7
	8	185.1	47.0	175.7	51.3	165.8	55.9	155.4	61.1
	10	196.3	47.8	186.4	52.1	176.0	56.7	165.0	62.0
	12	207.8	48.6	197.5	52.9	186.6	57.6	175.1	62.8
	14	219.8	49.4	208.9	53.7	197.5	58.5	185.4	63.7
DCF021SR-04BS00	6	213.8	62.5	203.0	68.2	191.1	74.3	177.4	80.7
	7	220.4	63.0	209.3	68.7	196.9	74.7	182.7	81.2
	8	227.0	63.5	215.8	69.2	202.7	75.1	188.2	81.6
	10	240.8	64.4	228.7	70.1	214.6	76.0	199.3	82.5
	12	254.9	65.4	241.6	70.9	226.8	76.9	210.7	83.4
	14	269.4	66.4	254.9	71.8	239.3	77.8	222.4	84.3
DCF025SR-06BT00	6	256.7	70.2	243.5	76.6	229.4	83.7	214.6	91.6
	7	264.6	70.8	251.0	77.2	236.6	84.3	221.4	92.2
	8	272.6	71.3	258.6	77.8	243.9	84.9	228.3	92.8
	10	289.0	72.4	274.3	78.9	258.8	86.1	242.4	94.1
	12	306.0	73.6	290.6	80.2	274.3	87.3	257.1	95.4
	14	323.4	74.8	307.3	81.4	290.2	88.6	272.3	96.7

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Mechanical Cooling EC Fans Regular Quiet

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF013DR-04ACD0	6	135.6	33.1	128.9	36.3	121.7	39.8	114.0	43.8
	7	139.8	33.3	132.9	36.5	125.6	40.1	117.7	44.1
	8	144.1	33.5	137.1	36.7	129.5	40.3	121.5	44.3
	10	153.0	34.0	145.6	37.2	137.7	40.8	129.2	44.8
	12	162.2	34.5	154.4	37.7	146.1	41.3	137.2	45.3
	14	171.6	35.0	163.4	38.2	154.8	41.8	145.5	45.8
DCF014DR-04ADD0	6	149.7	38.3	142.4	41.9	134.5	45.8	125.9	50.2
	7	154.3	38.6	146.9	42.1	138.8	46.1	130.0	50.5
	8	159.1	38.8	151.4	42.4	143.1	46.3	134.2	50.7
	10	168.9	39.3	160.8	42.9	152.1	46.9	142.7	51.3
	12	179.0	39.8	170.5	43.4	161.3	47.4	151.5	51.9
	14	189.3	40.4	180.4	44.0	170.9	48.0	160.5	52.4
DCF015DR-04ADF0	6	163.0	42.4	154.8	46.3	146.1	50.6	136.7	55.4
	7	168.1	42.7	159.7	46.6	150.7	50.9	141.1	55.7
	8	173.2	43.0	164.6	46.9	155.4	51.3	145.6	56.1
	10	183.8	43.7	174.7	47.6	165.0	52.0	154.7	56.8
	12	194.7	44.3	185.2	48.3	175.0	52.7	164.2	57.5
	14	206.0	45.0	196.1	49.0	185.3	53.4	174.0	58.3
DCF016DR-04AJJ0	6	169.4	44.6	160.7	48.8	151.5	53.5	141.9	58.8
	7	174.8	44.9	165.9	49.1	156.5	53.8	146.6	59.2
	8	180.3	45.2	171.2	49.4	161.6	54.2	151.4	59.5
	10	191.6	45.8	182.0	50.1	171.9	54.9	161.3	60.2
	12	203.3	46.5	193.2	50.8	182.6	55.6	171.5	61.0
	14	215.3	47.2	204.7	51.5	193.6	56.4	182.0	61.7
DCF018DR-04BJK0	6	197.8	54.3	187.4	59.5	176.1	65.1	164.1	71.5
	7	203.9	54.7	193.2	59.9	181.6	65.5	169.3	71.9
	8	210.2	55.1	199.0	60.3	187.1	66.0	174.5	72.3
	10	222.9	56.0	211.0	61.1	198.5	66.8	185.3	73.2
	12	235.8	56.8	223.4	62.0	210.3	67.7	196.3	74.1
	14	249.1	57.7	236.0	62.9	222.3	68.6	207.7	75.0
DCF020DR-06BFK0	6	206.2	50.9	195.9	55.9	184.9	61.5	173.2	67.7
	7	212.6	51.3	202.0	56.3	190.8	61.9	178.8	68.1
	8	219.1	51.6	208.3	56.7	196.7	62.2	184.4	68.5
	10	232.5	52.4	221.1	57.4	208.9	63.0	196.1	69.3
	12	246.2	53.2	234.3	58.2	221.6	63.8	208.1	70.1
	14	260.4	54.0	247.9	59.1	234.6	64.7	220.5	70.9
DCF023DR-06BKK0	6	231.9	58.5	220.1	64.5	207.8	71.1	194.7	78.7
	7	239.0	58.9	227.0	64.9	214.3	71.6	201.0	79.1
	8	246.3	59.4	234.0	65.3	221.0	72.0	207.4	79.5
	10	261.2	60.3	248.3	66.2	234.8	72.9	220.5	80.4
	12	276.5	61.2	263.2	67.2	249.0	73.9	234.0	81.4
	14	292.4	62.2	278.4	68.2	263.6	74.8	248.0	82.4

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF026DR-06BKL0	6	264.1	70.1	250.7	76.8	236.5	84.2	221.4	92.6
	7	272.3	70.6	258.5	77.3	244.0	84.8	228.6	93.1
	8	280.6	71.1	266.5	77.8	251.6	85.3	235.7	93.6
	10	297.5	72.2	282.9	78.9	267.3	86.4	250.3	94.6
	12	315.1	73.3	299.8	80.0	283.5	87.6	265.2	95.6
	14	333.2	74.5	317.1	81.2	300.0	88.7	280.7	96.7
DCF029DR-06BLL0	6	291.2	81.4	276.6	88.8	261.0	97.0	244.3	106.2
	7	300.2	81.9	285.2	89.4	269.2	97.6	252.2	106.8
	8	309.3	82.5	293.9	90.0	277.6	98.3	259.9	107.4
	10	328.1	83.7	312.0	91.2	294.8	99.6	275.6	108.5
	12	347.4	85.0	330.5	92.5	312.6	100.9	291.6	109.6
	14	367.3	86.3	349.7	93.8	330.7	102.1	308.1	110.7
DCF032DR-08BLM0	6	323.5	84.8	307.3	92.6	290.0	101.2	271.4	110.8
	7	333.5	85.4	316.9	93.2	299.1	101.8	280.1	111.4
	8	343.7	86.0	326.6	93.8	308.4	102.5	288.9	112.1
	10	364.5	87.3	346.6	95.2	327.4	103.8	307.0	113.5
	12	386.1	88.6	367.2	96.5	347.1	105.2	325.7	115.0
	14	408.2	89.9	388.8	98.0	367.4	106.7	345.0	116.4
DCF035DR-08BMM0	6	346.1	92.4	328.6	100.8	310.0	110.1	290.3	120.5
	7	356.7	93.1	338.7	101.6	319.6	110.9	299.5	121.3
	8	367.5	93.9	349.0	102.3	329.5	111.7	308.7	122.1
	10	389.7	95.4	370.2	103.9	349.7	113.3	327.9	123.8
	12	412.5	96.9	392.1	105.5	370.5	115.0	347.7	125.5
	14	436.1	98.5	414.6	107.1	392.1	116.7	368.3	127.2
DCF039DR-10BMS0	6	398.6	104.4	378.6	114.0	357.2	124.6	334.3	136.4
	7	411.0	105.1	390.5	114.8	368.5	125.4	345.0	137.3
	8	423.6	105.9	402.5	115.6	379.9	126.2	355.9	138.1
	10	449.4	107.4	427.2	117.1	403.5	127.9	378.2	139.8
	12	476.0	109.0	452.7	118.8	427.8	129.5	401.4	141.5
	14	503.4	110.6	478.9	120.4	452.9	131.3	425.3	143.3
DCF044DR-10BSS0	6	439.6	119.7	417.6	130.7	393.9	142.9	368.7	156.5
	7	453.2	120.5	430.7	131.6	406.4	143.8	380.5	157.4
	8	467.1	121.4	443.9	132.4	419.1	144.7	392.6	158.3
	10	495.5	123.1	471.1	134.2	445.1	146.5	417.3	160.2
	12	524.8	124.8	499.3	136.0	472.0	148.4	443.0	162.2
	14	555.0	126.6	528.2	137.8	499.8	150.3	469.5	164.1

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

Mechanical Cooling EC Fans Extra Quiet

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF014SX-04AL00	6	147.3	38.3	139.3	41.8	130.6	45.7	121.1	50.1
	7	151.7	38.6	143.5	42.1	134.5	46.0	124.8	50.3
	8	156.3	38.8	147.8	42.4	138.5	46.3	128.5	50.6
	10	165.5	39.3	156.5	42.9	146.8	46.8	136.2	51.2
	12	174.9	39.9	165.5	43.4	155.2	47.4	144.0	51.8
	14	184.6	40.4	174.6	44.0	163.8	48.0	152.1	52.4
DCF017SX-04AM00	6	169.5	46.1	159.8	50.3	149.3	55.0	138.0	60.1
	7	174.5	46.5	164.4	50.7	153.6	55.4	142.0	60.5
	8	179.5	46.9	169.2	51.1	158.0	55.8	146.1	61.0
	10	189.7	47.7	178.8	52.0	167.0	56.7	154.4	61.9
	12	200.2	48.6	188.6	52.9	176.2	57.6	162.9	62.8
	14	210.8	49.4	198.6	53.8	185.5	58.6	171.6	63.8
DCF021SX-06BS00	6	217.6	57.4	205.8	62.7	193.0	68.6	179.1	75.1
	7	224.1	57.8	212.0	63.1	198.8	69.0	184.5	75.5
	8	230.7	58.2	218.3	63.5	204.7	69.4	190.0	75.9
	10	244.2	58.9	231.1	64.3	216.8	70.2	201.3	76.8
	12	258.1	59.7	244.3	65.1	229.2	71.1	212.8	77.7
	14	272.3	60.5	257.7	65.9	241.9	71.9	224.7	78.6
DCF025SX-06BT00	6	249.8	70.0	235.2	76.4	219.5	83.4	202.6	91.3
	7	257.0	70.6	242.0	77.0	225.9	84.0	208.5	91.9
	8	264.4	71.2	248.9	77.6	232.3	84.7	214.5	92.6
	10	279.3	72.4	263.0	78.8	245.4	86.0	226.6	93.9
	12	294.6	73.6	277.4	80.2	258.9	87.4	239.1	95.3
	14	310.2	74.9	292.0	81.5	272.6	88.8	251.8	96.8

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Mechanical Cooling EC Fans Extra Quiet

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF013DX-04ACD0	6	134.6	33.0	127.4	36.1	119.6	39.6	111.2	43.5
	7	138.7	33.2	131.3	36.3	123.3	39.8	114.7	43.7
	8	142.9	33.4	135.2	36.5	127.0	40.1	118.2	44.0
	10	151.4	33.9	143.3	37.0	134.7	40.5	125.3	44.5
	12	160.1	34.3	151.6	37.5	142.5	41.0	132.7	45.0
	14	169.1	34.8	160.2	38.0	150.6	41.5	140.2	45.5
DCF014DX-04ADD0	6	147.8	38.1	139.8	41.6	131.1	45.5	121.7	49.8
	7	152.2	38.4	144.0	41.9	135.1	45.8	125.4	50.1
	8	156.7	38.6	148.3	42.1	139.1	46.0	129.2	50.4
	10	166.0	39.1	157.1	42.7	147.4	46.6	136.9	50.9
	12	175.5	39.7	166.1	43.2	155.8	47.2	144.8	51.5
	14	185.2	40.2	175.3	43.8	164.5	47.8	152.9	52.2
DCF015DX-04ADF0	6	159.6	42.2	150.7	46.1	140.9	50.3	130.4	55.1
	7	164.4	42.6	155.1	46.4	145.1	50.7	134.3	55.4
	8	169.2	42.9	159.7	46.8	149.4	51.0	138.3	55.8
	10	179.0	43.6	168.9	47.5	158.0	51.8	146.3	56.5
	12	189.0	44.2	178.4	48.2	166.9	52.5	154.6	57.3
	14	199.2	45.0	188.0	48.9	176.0	53.3	163.0	58.1
DCF016DX-04AJJ0	6	165.2	44.4	155.6	48.6	145.4	53.4	134.6	58.7
	7	170.2	44.7	160.4	49.0	149.9	53.7	138.7	59.1
	8	175.3	45.1	165.2	49.3	154.4	54.1	142.9	59.4
	10	185.6	45.8	175.0	50.1	163.6	54.9	151.5	60.2
	12	196.3	46.5	185.0	50.9	173.0	55.7	160.2	61.1
	14	207.1	47.3	195.3	51.7	182.6	56.5	169.1	61.9
DCF018DX-04BJK0	6	188.4	54.9	176.9	60.3	164.7	66.4	151.5	73.2
	7	193.9	55.4	182.1	60.8	169.5	67.0	156.0	73.8
	8	199.4	55.9	187.3	61.4	174.3	67.5	160.4	74.3
	10	210.6	56.9	197.8	62.4	184.2	68.6	169.6	75.5
	12	222.1	58.0	208.6	63.6	194.2	69.8	178.8	76.7
	14	233.7	59.2	219.5	64.8	204.4	71.0	188.3	77.9
DCF020DX-06BFK0	6	204.2	50.8	193.2	55.7	181.3	61.2	168.5	67.4
	7	210.4	51.1	199.0	56.1	186.8	61.6	173.7	67.7
	8	216.6	51.5	204.9	56.5	192.4	62.0	178.9	68.1
	10	229.4	52.2	217.0	57.2	203.8	62.8	189.6	68.9
	12	242.5	53.0	229.5	58.0	215.5	63.6	200.6	69.8
	14	255.9	53.8	242.2	58.9	227.6	64.5	211.9	70.7
DCF023DX-06BKK0	6	227.9	58.2	215.1	64.2	201.6	70.9	187.1	78.3
	7	234.6	58.7	221.6	64.6	207.7	71.3	192.8	78.8
	8	241.5	59.1	228.1	65.1	213.8	71.8	198.6	79.3
	10	255.6	60.1	241.4	66.0	226.4	72.7	210.3	80.3
	12	270.0	61.1	255.1	67.0	239.3	73.8	222.4	81.3
	14	284.7	62.1	269.1	68.1	252.5	74.8	234.8	82.4

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF026DX-08BKL0	6	267.7	66.2	253.3	72.5	237.7	79.5	221.0	87.4
	7	275.8	66.6	261.0	72.9	245.0	80.0	227.8	87.9
	8	284.1	67.1	268.9	73.4	252.4	80.4	234.8	88.3
	10	300.9	67.9	284.9	74.3	267.6	81.4	248.9	89.3
	12	318.2	68.9	301.3	75.2	283.1	82.3	263.5	90.3
	14	335.9	69.9	318.1	76.2	299.0	83.3	278.5	91.3
DCF029DX-08BLL0	6	293.7	76.6	277.8	83.6	260.4	91.4	241.5	100.1
	7	302.5	77.1	286.1	84.1	268.3	92.0	248.8	100.6
	8	311.4	77.6	294.6	84.7	276.2	92.5	256.3	101.2
	10	329.7	78.6	311.9	85.7	292.5	93.6	271.5	102.4
	12	348.4	79.6	329.6	86.8	309.2	94.8	287.1	103.6
	14	367.6	80.7	347.8	88.0	326.3	96.0	303.1	104.8
DCF032DX-08BLM0	6	316.9	84.5	299.2	92.1	279.9	100.7	259.1	110.1
	7	326.3	85.1	308.0	92.8	288.2	101.4	266.8	110.9
	8	335.8	85.7	317.0	93.5	296.6	102.1	274.6	111.6
	10	355.1	87.0	335.2	94.9	313.7	103.5	290.6	113.1
	12	374.9	88.4	353.9	96.3	331.2	105.0	306.9	114.6
	14	395.1	89.8	373.0	97.8	349.2	106.5	323.6	116.2
DCF035DX-08BMM0	6	337.0	92.1	317.7	100.5	296.9	109.7	274.6	120.0
	7	346.8	92.9	326.9	101.3	305.6	110.6	282.5	120.9
	8	356.7	93.7	336.3	102.1	314.3	111.4	290.6	121.8
	10	376.9	95.3	355.3	103.8	332.0	113.2	307.1	123.6
	12	397.6	96.9	374.7	105.5	350.2	115.0	324.0	125.4
	14	418.6	98.6	394.5	107.3	368.7	116.9	341.2	127.4
DCF039DX-10BMS0	6	390.9	103.8	369.0	113.3	345.3	123.8	319.6	135.4
	7	402.5	104.6	379.9	114.1	355.5	124.6	329.2	136.3
	8	414.2	105.3	391.0	114.9	365.9	125.4	338.8	137.1
	10	438.2	106.9	413.7	116.5	387.2	127.2	358.6	138.9
	12	462.7	108.6	436.8	118.3	408.9	129.0	378.8	140.8
	14	487.7	110.2	460.5	120.0	431.1	130.8	399.6	142.7
DCF044DX-12BSS0	6	439.7	115.1	415.8	125.7	389.7	137.4	361.4	150.4
	7	452.9	115.9	428.3	126.5	401.5	138.2	372.4	151.3
	8	466.4	116.6	441.1	127.2	413.5	139.0	383.5	152.1
	10	493.7	118.1	467.0	128.8	437.9	140.7	406.3	153.9
	12	521.8	119.7	493.6	130.5	462.9	142.4	429.7	155.7
	14	550.6	121.3	520.8	132.2	488.5	144.2	453.6	157.5

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Mechanical Cooling EC Fan high air flow

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF014SR-04AL00	6	149.4	38.3	142.1	41.8	134.1	45.8	125.5	50.2
	7	154.1	38.5	146.6	42.1	138.4	46.1	129.6	50.4
	8	158.9	38.8	151.1	42.4	142.7	46.3	133.7	50.7
	10	168.6	39.3	160.5	42.9	151.7	46.8	142.2	51.3
	12	178.7	39.8	170.1	43.4	160.9	47.4	150.9	51.8
	14	189.0	40.3	180.0	43.9	170.4	48.0	160.0	52.4
DCF017SR-04AM00	6	174.4	46.0	165.5	50.2	156.1	54.8	146.1	60.0
	7	179.7	46.4	170.6	50.6	161.0	55.2	150.7	60.4
	8	185.2	46.7	175.9	51.0	165.9	55.6	155.4	60.8
	10	196.5	47.5	186.6	51.7	176.1	56.4	165.1	61.6
	12	208.0	48.2	197.6	52.5	186.7	57.2	175.1	62.5
	14	219.9	49.0	209.1	53.4	197.3	58.0	185.4	63.3
DCF021SR-04BS00	6	213.8	62.1	203.0	67.8	191.6	74.1	179.4	81.1
	7	220.2	62.6	209.3	68.3	197.6	74.6	184.9	81.5
	8	226.9	63.0	215.7	68.8	203.7	75.1	190.4	81.9
	10	240.7	64.0	228.9	69.8	216.3	76.1	201.7	82.7
	12	254.8	65.0	242.5	70.8	229.3	77.1	213.4	83.6
	14	269.4	66.0	256.5	71.8	242.1	78.0	225.4	84.5
DCF025SR-06BT00	6	256.9	69.8	243.7	76.2	229.6	83.2	214.7	91.1
	7	264.8	70.3	251.2	76.7	236.8	83.8	221.4	91.7
	8	272.8	70.9	258.8	77.3	244.0	84.4	228.3	92.3
	10	289.3	72.0	274.5	78.5	258.9	85.6	242.5	93.5
	12	306.2	73.1	290.7	79.7	274.4	86.8	257.1	94.8
	14	323.6	74.3	307.4	80.9	289.9	88.0	272.1	96.1

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

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF013DR-04ACD0	6	135.8	32.9	129.0	36.1	121.8	39.6	114.1	43.6
	7	140.0	33.1	133.1	36.3	125.7	39.8	117.8	43.8
	8	144.4	33.3	137.3	36.5	129.7	40.1	121.6	44.0
	10	153.3	33.8	145.8	37.0	137.9	40.5	129.3	44.5
	12	162.4	34.3	154.6	37.4	146.3	41.0	137.4	45.0
	14	171.8	34.8	163.7	37.9	154.9	41.5	145.6	45.5
DCF014DR-04ADD0	6	149.9	38.1	142.6	41.6	134.6	45.5	126.1	49.9
	7	154.5	38.3	147.1	41.9	138.9	45.8	130.1	50.2
	8	159.3	38.6	151.6	42.1	143.3	46.1	134.3	50.4
	10	169.1	39.1	161.0	42.6	152.2	46.6	142.8	51.0
	12	179.2	39.6	170.7	43.2	161.5	47.1	151.6	51.6
	14	189.6	40.1	180.6	43.7	171.0	47.7	160.7	52.1
DCF015DR-04ADF0	6	163.2	42.2	155.0	46.0	146.2	50.3	136.8	55.1
	7	168.3	42.5	159.8	46.3	150.8	50.6	141.2	55.4
	8	173.4	42.8	164.8	46.7	155.5	51.0	145.6	55.7
	10	184.0	43.4	174.9	47.3	165.2	51.6	154.8	56.4
	12	194.9	44.0	185.3	48.0	175.1	52.3	164.3	57.2
	14	206.1	44.7	196.1	48.7	185.3	53.0	174.0	57.9
DCF016DR-04AJJ0	6	169.6	44.3	160.8	48.5	151.7	53.2	142.0	58.5
	7	175.0	44.6	166.1	48.8	156.6	53.5	146.7	58.8
	8	180.5	44.9	171.3	49.1	161.7	53.8	151.5	59.1
	10	191.8	45.5	182.1	49.8	172.0	54.5	161.3	59.8
	12	203.5	46.2	193.3	50.5	182.7	55.2	171.5	60.6
	14	215.5	46.9	204.9	51.2	193.7	56.0	181.9	61.3
DCF018DR-04BJK0	6	197.8	53.9	187.6	59.2	177.0	65.1	165.2	71.4
	7	204.0	54.3	193.6	59.6	182.7	65.5	170.4	71.8
	8	210.2	54.8	199.6	60.0	188.3	65.9	175.7	72.2
	10	223.1	55.7	211.9	60.9	199.8	66.7	186.6	73.0
	12	236.3	56.6	224.7	61.9	211.7	67.6	197.7	73.9
	14	250.0	57.5	237.6	62.8	223.7	68.4	209.3	74.8
DCF020DR-06BFK0	6	206.6	50.6	196.1	55.6	185.1	61.1	173.4	67.3
	7	213.0	51.0	202.3	56.0	191.0	61.5	179.0	67.7
	8	219.5	51.3	208.5	56.3	197.0	61.9	184.6	68.1
	10	232.8	52.1	221.4	57.1	209.2	62.6	196.3	68.9
	12	246.6	52.8	234.6	57.9	221.8	63.4	208.3	69.7
	14	260.8	53.7	248.2	58.7	234.9	64.3	220.7	70.5
DCF023DR-06BKK0	6	232.2	58.1	220.4	64.1	208.0	70.7	194.9	78.2
	7	239.3	58.5	227.2	64.5	214.5	71.1	201.2	78.6
	8	246.6	59.0	234.2	64.9	221.2	71.6	207.5	79.1
	10	261.6	59.9	248.6	65.8	235.0	72.4	220.6	79.9
	12	277.0	60.8	263.4	66.7	249.2	73.4	234.2	80.9
	14	292.8	61.8	278.7	67.7	263.8	74.4	248.1	81.8

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 ÷ (Cp x ΔT)
6 For conditions outside of those quoted please refer to Airedale.

Model	Supply Temp °C	Ambient (°C) 25 Output kW	25 Input kW	30 Output kW	30 Input kW	35 Output kW	35 Input kW	40 Output kW	40 Input kW
DCF026DR-06BKL0	6	264.4	69.6	250.9	76.3	236.6	83.7	221.5	92.0
	7	272.5	70.2	258.7	76.8	244.1	84.2	228.6	92.6
	8	280.8	70.7	266.7	77.3	251.7	84.8	235.9	93.1
	10	297.8	71.7	282.9	78.4	267.3	85.9	250.7	94.2
	12	315.1	72.8	299.8	79.5	283.5	87.0	266.2	95.4
	14	333.4	74.0	317.2	80.7	300.2	88.2	282.1	96.6
DCF029DR-06BLL0	6	291.4	80.9	276.7	88.2	261.0	96.4	244.3	105.6
	7	300.4	81.4	285.3	88.8	269.2	97.1	252.1	106.2
	8	309.5	82.0	294.1	89.4	277.6	97.7	260.0	106.9
	10	328.2	83.2	311.7	90.6	294.6	98.9	276.4	108.2
	12	347.0	84.3	330.3	91.9	312.4	100.3	293.4	109.6
	14	367.4	85.7	349.5	93.2	330.8	101.6	310.9	110.9
DCF032DR-08BLM0	6	323.9	84.3	307.6	92.0	290.2	100.6	271.6	110.1
	7	333.9	84.9	317.2	92.6	299.3	101.2	280.3	110.8
	8	344.1	85.5	327.0	93.3	308.6	101.9	289.1	111.5
	10	364.9	86.7	346.9	94.6	327.7	103.2	307.1	112.9
	12	386.4	88.0	367.5	95.9	347.4	104.6	325.8	114.3
	14	408.6	89.3	388.7	97.2	367.6	106.0	345.0	115.7
DCF035DR-08BMM0	6	346.4	91.8	328.8	100.2	310.2	109.5	290.4	119.8
	7	357.1	92.6	339.0	101.0	319.9	110.2	299.6	120.6
	8	367.9	93.3	349.3	101.7	329.7	111.0	308.9	121.4
	10	390.0	94.8	370.5	103.3	349.8	112.6	328.0	123.0
	12	412.8	96.3	392.3	104.9	370.7	114.3	347.8	124.7
	14	436.4	97.8	414.9	106.5	392.2	116.0	368.0	126.4
DCF039DR-10BMS0	6	399.1	103.8	379.0	113.3	357.5	123.9	334.5	135.7
	7	411.5	104.5	390.8	114.1	368.8	124.7	345.2	136.5
	8	424.1	105.2	402.9	114.9	380.3	125.5	356.1	137.3
	10	449.9	106.7	427.6	116.4	403.8	127.1	378.4	139.0
	12	476.5	108.3	453.1	118.0	427.8	128.7	401.4	140.6
	14	503.8	109.8	479.3	119.6	453.0	130.4	425.4	142.4
DCF044DR-10BSS0	6	440.0	119.0	417.9	129.9	394.2	142.1	368.8	155.6
	7	453.7	119.8	430.9	130.8	406.7	142.9	380.6	156.5
	8	467.5	120.6	444.2	131.6	419.3	143.8	392.6	157.4
	10	495.9	122.3	471.4	133.4	445.3	145.6	417.3	159.3
	12	525.2	124.0	499.6	135.1	471.5	147.3	442.7	161.1
	14	555.3	125.8	528.5	137.0	499.4	149.2	469.3	163.1

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

Mechanical Data Free Cool Chillers Regular Quiet

			DCF014SR-04AL00	DCF017SR-04AM00	DCF021SR-04BS00
Number of Refrigeration Circuits			1	1	1
Free Cool Enabled			Yes	Yes	Yes
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1	kW	151.7	176.1	216.3
Nominal Input - Mechanical		kW	46.8	56.4	76.1
EER	2		3.2	3.1	2.8
ESEER			4.2	4.1	4.1
SEER			4.0	3.9	3.9
Nominal Output - Free Cooling	6	kW	163.9	174.4	187.1
Ambient temperature for 100% Free Cooling	5	°C	3.8	2.8	1.1
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1	kW	151.5	176.0	214.6
Nominal Input - Mechanical		kW	47.1	56.7	76.0
EER	2		3.21	3.10	2.82
ESEER			4.14	4.04	4.07
SEER			4.02	3.92	3.92
Nominal Output - Free Cooling	6	kW	159.63	169.51	180.72
Ambient temperature for 100% Free Cooling	5	°C	3.6	2.5	0.7
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	153.6	176.7	211.3
Nominal Input - Mechanical		kW	48.6	57.3	75.9
EER			3.2	3.1	2.8
ESEER			3.74	3.71	3.77
SEER			3.66	3.62	3.65
Nominal Output - Free Cooling	6	kW	154.65	162.84	171.80
Ambient temperature for 100% Free Cooling	5	°C	3.00	1.90	0.20
Capacity Steps		%	55-100	55-100	40-75-100
Minimum Turndown Ratio			0.54	0.55	0.40
Dimensions (H x W x L)		mm	2405 x 2200 x 2554	2405 x 2200 x 2554	2405 x 2200 x 2554
Mass					
Machine	3	kg	1940	1975	2185
Operating		kg	2085	2125	2335
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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)		m²	8.05	8.05	8.05
Nominal Airflow - High Airflow EC Fans		m³/s	24.14	N/A	N/A
Nominal Airflow - EC Fans		m³/s	23.8	23.8	23.8
Nominal Airflow - AC Fans		m³/s	20.5	20.5	20.5
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans		rpm	N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	903	903	903
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	26	28	30
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	4	l	1558	1823	1571
Maximum System Operating Pressure		Bar	10	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% Ethylene Glycol
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(6|) Nominal Free Cooling at 3°C

Mechanical Data Free Cool Chillers Regular Quiet Continued

			DCF025SR-06BT00	DCF013DR-04ACD0	DCF014DR-04ADD0
Number of Refrigeration Circuits			1	2	2
Free Cool Enabled			Yes	Yes	Yes
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1	kW	258.9	137.9	152.2
Nominal Input - Mechanical		kW	85.6	40.5	46.6
EER	2		3.0	3.4	3.3
ESEER			4.3	4.3	3.8
SEER			4.1	4.1	3.8
Nominal Output - Free Cooling	6	kW	259.6	156.6	164.1
Ambient temperature for 100% Free Cooling	5	°C	3.0	4.4	3.8
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1	kW	258.8	137.7	152.1
Nominal Input - Mechanical		kW	86.1	40.8	46.9
EER	2		3.01	3.38	3.24
ESEER			4.27	4.24	3.81
SEER			4.11	4.12	3.73
Nominal Output - Free Cooling	6	kW	252.40	152.77	159.89
Ambient temperature for 100% Free Cooling	5	°C	2.6	4.1	3.5
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	259.7	140.2	154.2
Nominal Input - Mechanical		kW	87.0	42.7	48.3
EER			3.0	3.3	3.2
ESEER			3.83	3.96	3.68
SEER			3.73	3.86	3.61
Nominal Output - Free Cooling	6	kW	242.58	148.71	154.89
Ambient temperature for 100% Free Cooling	5	°C	2.10	3.60	3.00
Capacity Steps		%	40-75-100	45-100	50-100
Minimum Turndown Ratio			0.38	0.45	0.50
Dimensions (H x W x L)		mm	2415 x 2200 x 3690	2405 x 2200 x 2554	2405 x 2200 x 2554
Mass					
Machine	3	kg	2855	1905	1955
Operating		kg	3120	2050	2095
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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)		m²	12.07	8.05	8.05
Nominal Airflow - High Airflow EC Fans			36.21	N/A	N/A
Nominal Airflow - EC Fans		m³/s	35.7	23.8	23.8
Nominal Airflow - AC Fans		m³/s	30.7	20.5	20.5
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	4	4
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	903	903	903
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	44	13 + 14	13 + 14
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	4	l	1854	1182	1446
Maximum System Operating Pressure		Bar	10	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% Ethylene Glycol
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(6|) Nominal Free Cooling at 3°C

Mechanical Data Free Cool Chillers Regular Quiet Continued

			DCF015DR-04ADF0	DCF016DR-04AJJ0	DCF018DR-04BJK0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			Yes	Yes	Yes
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1	kW	165.2	172.0	199.8
Nominal Input - Mechanical		kW	51.6	54.5	66.7
EER	2		3.2	3.2	3.0
ESEER			3.9	4.3	4.2
SEER			3.8	4.1	4.1
Nominal Output - Free Cooling	6	kW	170.0	172.8	182.5
Ambient temperature for 100% Free Cooling	5	°C	3.3	3.0	1.8
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1	kW	165.0	171.9	198.5
Nominal Input - Mechanical		kW	52.0	54.9	66.8
EER	2		3.18	3.13	2.97
ESEER			3.85	4.25	4.21
SEER			3.76	4.11	4.06
Nominal Output - Free Cooling	6	kW	165.42	168.03	176.54
Ambient temperature for 100% Free Cooling	5	°C	3.0	2.7	1.5
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	166.4	172.7	197.1
Nominal Input - Mechanical		kW	52.9	55.5	67.2
EER			3.1	3.1	2.9
ESEER			3.73	3.88	3.89
SEER			3.65	3.78	3.77
Nominal Output - Free Cooling	6	kW	159.48	161.59	168.51
Ambient temperature for 100% Free Cooling	5	°C	2.40	2.10	0.90
Capacity Steps		%	45-100	25-55-75-100	25-55-75-100
Minimum Turndown Ratio			0.47	0.27	0.24
Dimensions (H x W x L)		mm	2405 x 2200 x 2554	2405 x 2200 x 2554	2405 x 2200 x 2554
Mass					
Machine	3	kg	1980	2120	2165
Operating		kg	2125	2270	2325
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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)		m²	8.05	8.05	8.05
Nominal Airflow - High Airflow EC Fans			24.14	N/A	N/A
Nominal Airflow - EC Fans		m³/s	23.8	23.8	23.8
Nominal Airflow - AC Fans		m³/s	20.5	20.5	20.5
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	903	903	903
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 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7
Oil Type			Polyol Ester		
Refrigeration					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	14 + 14	14 + 14	15 + 16
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	4	l	1466	889	893
Maximum System Operating Pressure		Bar	10	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% Ethylene Glycol
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(6|) Nominal Free Cooling at 3°C

Mechanical Data Free Cool Chillers Regular Quiet Continued

			DCF020DR-06BFK0	DCF023DR-06BKK0	DCF026DR-06BKL0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			Yes	Yes	Yes
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1	kW	209.2	235.0	267.3
Nominal Input - Mechanical		kW	62.6	72.4	85.9
EER	2		3.3	3.2	3.1
ESEER			4.2	4.4	4.4
SEER			4.1	4.3	4.2
Nominal Output - Free Cooling	6	kW	236.2	249.4	262.8
Ambient temperature for 100% Free Cooling	5	°C	4.3	3.6	2.7
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1	kW	208.9	234.8	267.3
Nominal Input - Mechanical		kW	63.0	72.9	86.4
EER	2		3.32	3.22	3.09
ESEER			4.16	4.41	4.34
SEER			4.05	4.26	4.18
Nominal Output - Free Cooling	6	kW	230.45	242.82	255.38
Ambient temperature for 100% Free Cooling	5	°C	4.1	3.3	2.4
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	212.3	237.3	267.1
Nominal Input - Mechanical		kW	65.8	74.6	87.1
EER			3.2	3.2	3.1
ESEER			3.85	3.97	3.95
SEER			3.77	3.86	3.84
Nominal Output - Free Cooling	6	kW	224.01	234.69	244.92
Ambient temperature for 100% Free Cooling	5	°C	3.60	2.80	1.90
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	2415 x 2200 x 3690	2415 x 2200 x 3690	2415 x 2200 x 3690
Mass					
Machine	3	kg	2680	2750	2945
Operating		kg	2900	2970	3215
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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)		m²	12.07	12.07	12.07
Nominal Airflow - High Airflow EC Fans			36.21	N/A	N/A
Nominal Airflow - EC Fans		m³/s	35.7	35.7	35.7
Nominal Airflow - AC Fans		m³/s	30.7	30.7	30.7
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	6	6
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	903	903	903
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	21 + 21	21 + 21	22 + 24
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	4	l	1755	1213	1228
Maximum System Operating Pressure		Bar	10	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% Ethylene Glycol
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(6|) Nominal Free Cooling at 3°C

Mechanical Data Free Cool Chillers Regular Quiet Continued

			DCF029DR-06BLL0	DCF032DR-08BLM0	DCF035DR-08BMM0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			Yes	Yes	Yes
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1	kW	294.6	327.7	349.8
Nominal Input - Mechanical		kW	98.9	103.2	112.6
EER	2		3.0	3.2	3.1
ESEER			4.1	4.3	4.2
SEER			3.9	4.2	4.1
Nominal Output - Free Cooling	6	kW	272.1	338.9	348.0
Ambient temperature for 100% Free Cooling	5	°C	2.0	3.4	2.9
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1	kW	294.8	327.4	349.7
Nominal Input - Mechanical		kW	99.6	103.8	113.3
EER	2		2.96	3.15	3.09
ESEER			4.05	4.28	4.18
SEER			3.91	4.14	4.04
Nominal Output - Free Cooling	6	kW	263.97	329.77	338.18
Ambient temperature for 100% Free Cooling	5	°C	1.5	3.0	2.5
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	292.1	330.2	351.0
Nominal Input - Mechanical		kW	99.4	105.9	114.5
EER			2.9	3.1	3.1
ESEER			3.76	3.88	3.83
SEER			3.65	3.77	3.73
Nominal Output - Free Cooling	6	kW	251.85	318.02	324.96
Ambient temperature for 100% Free Cooling	5	°C	1.00	2.50	2.00
Capacity Steps		%	30-55-80-100	25-55-75-100	30-55-80-100
Minimum Turndown Ratio			0.28	0.25	0.28
Dimensions (H x W x L)		mm	2415 x 2200 x 3690	2415 x 2200 x 4820	2415 x 2200 x 4820
Mass					
Machine	3	kg	3050	3620	3650
Operating		kg	3320	3980	4005
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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)		m²	12.07	16.09	16.09
Nominal Airflow - High Airflow EC Fans			36.21	N/A	N/A
Nominal Airflow - EC Fans		m³/s	35.7	47.6	47.6
Nominal Airflow - AC Fans		m³/s	30.7	40.9	40.9
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	8	8
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032	1032
Maximum Speed - AC Fans		rpm	903	903	903
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	23 + 24	29 + 31	29 + 31
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	4	l	1544	1565	1815
Maximum System Operating Pressure		Bar	10	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% Ethylene Glycol
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(6|) Nominal Free Cooling at 3°C

Mechanical Data Free Cool Chillers Regular Quiet Continued

			DCF039DR-10BMS0	DCF044DR-10BSS0
Number of Refrigeration Circuits			2	2
Free Cool Enabled			Yes	Yes
Enhance Capital Allowance listed			Yes	Yes
Cooling Duty - High Airflow EC Fans				
Nominal Output - Mechanical	1	kW	403.8	445.3
Nominal Input - Mechanical		kW	127.1	145.6
EER	2		3.2	3.1
ESEER			4.4	4.4
SEER			4.3	4.2
Nominal Output - Free Cooling	6	kW	421.1	438.0
Ambient temperature for 100% Free Cooling	5	°C	3.4	2.7
Cooling Duty - EC Fans				
Nominal Output - Mechanical	1	kW	403.5	445.1
Nominal Input - Mechanical		kW	127.9	146.5
EER	2		3.16	3.04
ESEER			4.39	4.35
SEER			4.23	4.18
Nominal Output - Free Cooling	6	kW	409.86	425.52
Ambient temperature for 100% Free Cooling	5	°C	3.1	2.4
Cooling Duty - AC Fans				
Nominal Output - Mechanical		kW	407.0	445.7
Nominal Input - Mechanical		kW	130.6	147.6
EER			3.1	3.0
ESEER			3.93	3.91
SEER			3.82	3.80
Nominal Output - Free Cooling	6	kW	395.44	408.33
Ambient temperature for 100% Free Cooling	5	°C	2.60	1.80
Capacity Steps		%	25-45-65-85-100	20-40-55-70-85-100
Minimum Turndown Ratio			0.24	0.19
Dimensions (H x W x L)		mm	2415 x 2200 x 5956	2415 x 2200 x 5956
Mass				
Machine	3	kg	4430	4580
Operating		kg	4885	5025
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)	
Evaporator			Brazed 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)		m²	20.11	20.11
Nominal Airflow - High Airflow EC Fans			60.35	N/A
Nominal Airflow - EC Fans		m³/s	59.5	59.5
Nominal Airflow - AC Fans		m³/s	51.1	51.1
Condenser Fan & Motor			Sickle Bladed Fan	
Quantity			10	10
Diameter		mm	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A
Maximum Speed - EC Fans		rpm	1032	1032
Maximum Speed - AC Fans		rpm	903	903
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				
Refrigerant Control			Electronic Expansion Valve (EEV)	
Refrigerant Precharged			R410A	
Charge (Total)		kg	39 + 41	39 + 41
Connections			Grooved Terminations	
Water Inlet / Outlet - Unit			DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2
Water System				
Minimum System Water Volume	4	l	1842	1586
Maximum System Operating Pressure		Bar	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% Ethylene Glycol
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(6|) Nominal Free Cooling at 3°C

Mechanical Data Free Cool Chillers Extra Quiet

			DCF014SX-04AL00	DCF017SX-04AM00	DCF021SX-06BS00
Number of Refrigeration Circuits			1	1	1
Free Cool Enabled			Yes	Yes	Yes
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling	6	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1	kW	146.8	167.0	216.8
Nominal Input - Mechanical		kW	46.8	56.7	70.2
EER	2		3.13	2.95	3.09
ESEER			4.13	4.01	4.40
SEER			4.00	3.88	4.24
Nominal Output - Free Cooling	6	kW	125.78	130.79	187.68
Ambient temperature for 100% Free Cooling	5	°C	0.9	-0.4	1.1
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	149.1	170.3	220.2
Nominal Input - Mechanical		kW	48.2	57.6	72.2
EER			3.1	3.0	3.0
ESEER			3.78	3.74	3.95
SEER			3.69	3.64	3.84
Nominal Output - Free Cooling	6	kW	134.98	140.82	201.34
Ambient temperature for 100% Free Cooling	5	°C	1.70	0.40	1.80
Capacity Steps		%	55-100	55-100	40-75-100
Minimum Turndown Ratio			0.56	0.57	0.39
Dimensions (H x W x L)		mm	2405 x 2200 x 2554	2405 x 2200 x 2554	2415 x 2200 x 3690
Mass					
Machine	3	kg	2020	2060	2835
Operating		kg	2170	2210	3055
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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)		m²	8.05	8.05	12.07
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	14.8	14.8	22.2
Nominal Airflow - AC Fans		m³/s	15.9	15.9	23.9
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	6
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	26	28	41
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	4	l	1564	1831	1591
Maximum System Operating Pressure		Bar	10	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% Ethylene Glycol
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(6|) Nominal Free Cooling at 3°C

Mechanical Data Free Cool Chillers Extra Quiet Continued

			DCF025SX-06BT00	DCF013DX-04ACD0	DCF014DX-04ADD0
Number of Refrigeration Circuits			1	2	2
Free Cool Enabled			Yes	Yes	Yes
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling	6	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1	kW	245.4	134.7	147.4
Nominal Input - Mechanical		kW	86.0	40.5	46.6
EER	2		2.85	3.32	3.16
ESEER			4.29	4.22	3.77
SEER			4.12	4.10	3.68
Nominal Output - Free Cooling	6	kW	195.09	121.90	125.96
Ambient temperature for 100% Free Cooling	5	°C	-0.2	1.7	0.9
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	250.3	136.6	149.7
Nominal Input - Mechanical		kW	87.4	42.0	47.9
EER			2.9	3.3	3.1
ESEER			3.90	4.02	3.67
SEER			3.78	3.91	3.59
Nominal Output - Free Cooling	6	kW	209.99	130.55	135.18
Ambient temperature for 100% Free Cooling	5	°C	0.60	2.40	1.70
Capacity Steps		%	40-75-100	45-100	50-100
Minimum Turndown Ratio			0.40	0.45	0.50
Dimensions (H x W x L)		mm	2415 x 2200 x 3690	2405 x 2200 x 2554	2405 x 2200 x 2554
Mass					
Machine	3	kg	2965	2030	2080
Operating		kg	3235	2175	2230
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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)		m²	12.07	8.05	8.05
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	22.2	14.8	14.8
Nominal Airflow - AC Fans		m³/s	23.9	15.9	15.9
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	4	4
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	44	13 + 14	13 + 14
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	4	l	1861	1157	1403
Maximum System Operating Pressure		Bar	10	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% Ethylene Glycol
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(6|) Nominal Free Cooling at 3°C

Mechanical Data Free Cool Chillers Extra Quiet Continued

			DCF015DX-04ADF0	DCF016DX-04AJJ0	DCF018DX-04BJK0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			Yes	Yes	Yes
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling	6	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1	kW	158.0	163.6	184.2
Nominal Input - Mechanical		kW	51.8	54.9	68.6
EER	2		3.05	2.98	2.68
ESEER			3.80	4.23	4.20
SEER			3.70	4.08	4.02
Nominal Output - Free Cooling	6	kW	128.77	130.06	133.91
Ambient temperature for 100% Free Cooling	5	°C	0.2	-0.2	-1.6
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	160.9	166.7	188.6
Nominal Input - Mechanical		kW	52.9	55.8	68.9
EER			3.0	3.0	2.7
ESEER			3.70	3.93	3.94
SEER			3.61	3.81	3.79
Nominal Output - Free Cooling	6	kW	138.46	139.96	144.59
Ambient temperature for 100% Free Cooling	5	°C	1.00	0.60	-0.70
Capacity Steps		%	45-100	30-55-80-100	25-60-80-100
Minimum Turndown Ratio			0.47	0.29	0.25
Dimensions (H x W x L)		mm	2405 x 2200 x 2554	2405 x 2200 x 2554	2405 x 2200 x 2554
Mass					
Machine	3	kg	2105	2250	2290
Operating		kg	2250	2400	2450
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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)		m²	8.05	8.05	8.05
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	14.8	14.8	14.8
Nominal Airflow - AC Fans		m³/s	15.9	15.9	15.9
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			4	4	4
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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 6.7 + 2 x 6.7	2 x 6.7 + 2 x 6.7
Oil Type			Polyol Ester		
Refrigeration					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	14 + 14	14 + 14	15 + 16
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	4	l	1422	893	896
Maximum System Operating Pressure		Bar	10	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% Ethylene Glycol
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(6|) Nominal Free Cooling at 3°C

Mechanical Data Free Cool Chillers Extra Quiet Continued

			DCF020DX-06BFK0	DCF023DX-06BKK0	DCF026DX-08BKL0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			Yes	Yes	Yes
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling	6	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1	kW	203.8	226.4	267.6
Nominal Input - Mechanical		kW	62.8	72.7	81.4
EER	2		3.25	3.11	3.29
ESEER			4.15	4.40	4.58
SEER			4.03	4.24	4.42
Nominal Output - Free Cooling	6	kW	183.49	190.42	243.18
Ambient temperature for 100% Free Cooling	5	°C	1.6	0.7	1.7
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	206.8	230.1	271.3
Nominal Input - Mechanical		kW	64.9	74.5	84.3
EER			3.2	3.1	3.2
ESEER			3.92	4.03	4.12
SEER			3.82	3.91	4.00
Nominal Output - Free Cooling	6	kW	196.56	204.48	260.40
Ambient temperature for 100% Free Cooling	5	°C	2.30	1.40	2.40
Capacity Steps		%	45-75-100	30-55-80-100	25-55-75-100
Minimum Turndown Ratio			0.44	0.28	0.24
Dimensions (H x W x L)		mm	2415 x 2200 x 3690	2415 x 2200 x 3690	2415 x 2200 x 4820
Mass					
Machine	3	kg	2830	2910	3665
Operating		kg	3050	3130	4010
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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)		m²	12.07	12.07	16.09
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	22.2	22.2	29.6
Nominal Airflow - AC Fans		m³/s	23.9	23.9	31.9
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			6	6	8
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	21 + 21	21 + 21	27 + 30
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	4	l	1719	1218	1241
Maximum System Operating Pressure		Bar	10	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% Ethylene Glycol
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(6|) Nominal Free Cooling at 3°C

Mechanical Data Free Cool Chillers Extra Quiet Continued

			DCF029DX-08BLL0	DCF032DX-08BLM0	DCF035DX-08BMM0
Number of Refrigeration Circuits			2	2	2
Free Cool Enabled			Yes	Yes	Yes
Enhance Capital Allowance listed			Yes	Yes	Yes
Cooling Duty - High Airflow EC Fans					
Nominal Output - Mechanical	1	kW	N/A	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A	N/A
EER	2		N/A	N/A	N/A
ESEER			N/A	N/A	N/A
SEER			N/A	N/A	N/A
Nominal Output - Free Cooling	6	kW	N/A	N/A	N/A
Ambient temperature for 100% Free Cooling	5	°C	N/A	N/A	N/A
Cooling Duty - EC Fans					
Nominal Output - Mechanical	1	kW	292.5	313.7	332.0
Nominal Input - Mechanical		kW	93.6	103.5	113.2
EER	2		3.12	3.03	2.93
ESEER			4.28	4.27	4.16
SEER			4.14	4.12	4.01
Nominal Output - Free Cooling	6	kW	251.26	256.97	261.15
Ambient temperature for 100% Free Cooling	5	°C	1.0	0.3	-0.3
Cooling Duty - AC Fans					
Nominal Output - Mechanical		kW	297.2	319.3	338.5
Nominal Input - Mechanical		kW	96.3	105.8	115.1
EER			3.1	3.0	2.9
ESEER			3.92	3.93	3.88
SEER			3.81	3.82	3.76
Nominal Output - Free Cooling	6	kW	269.62	276.25	281.15
Ambient temperature for 100% Free Cooling	5	°C	1.70	1.10	0.50
Capacity Steps		%	30-55-80-100	25-55-75-100	30-55-80-100
Minimum Turndown Ratio			0.28	0.26	0.29
Dimensions (H x W x L)		mm	2415 x 2200 x 4820	2415 x 2200 x 4820	2415 x 2200 x 4820
Mass					
Machine	3	kg	3775	3820	3850
Operating		kg	4120	4175	4210
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)		
Evaporator			Brazed 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)		m²	16.09	16.09	16.09
Nominal Airflow - High Airflow EC Fans			N/A	N/A	N/A
Nominal Airflow - EC Fans		m³/s	29.6	29.6	29.6
Nominal Airflow - AC Fans		m³/s	31.9	31.9	31.9
Condenser Fan & Motor			Sickle Bladed Fan		
Quantity			8	8	8
Diameter		mm	800	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A	N/A
Maximum Speed - EC Fans		rpm	657	657	657
Maximum Speed - AC Fans		rpm	726	726	726
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					
Refrigerant Control			Electronic Expansion Valve (EEV)		
Refrigerant Precharged			R410A		
Charge (Total)		kg	28 + 30	29 + 31	29 + 31
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	4	l	1561	1571	1824
Maximum System Operating Pressure		Bar	10	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% Ethylene Glycol
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(6|) Nominal Free Cooling at 3°C

Mechanical Data Free Cool Chillers Extra Quiet Continued

			DCF039DX-10BMS0	DCF044DX-12BSS0
Number of Refrigeration Circuits			2	2
Free Cool Enabled			Yes	Yes
Enhance Capital Allowance listed			Yes	Yes
Cooling Duty - High Airflow EC Fans				
Nominal Output - Mechanical	1	kW	N/A	N/A
Nominal Input - Mechanical		kW	N/A	N/A
EER	2		N/A	N/A
ESEER			N/A	N/A
SEER			N/A	N/A
Nominal Output - Free Cooling	6	kW	N/A	N/A
Ambient temperature for 100% Free Cooling	5	°C	N/A	N/A
Cooling Duty - EC Fans				
Nominal Output - Mechanical	1	kW	387.2	437.9
Nominal Input - Mechanical		kW	127.2	140.7
EER	2		3.04	3.11
ESEER			4.27	4.50
SEER			4.11	4.33
Nominal Output - Free Cooling	6	kW	319.96	376.62
Ambient temperature for 100% Free Cooling	5	°C	0.4	1.0
Cooling Duty - AC Fans				
Nominal Output - Mechanical		kW	394.0	444.8
Nominal Input - Mechanical		kW	130.1	144.7
EER			3.0	3.1
ESEER			3.93	4.04
SEER			3.81	3.92
Nominal Output - Free Cooling	6	kW	343.86	404.13
Ambient temperature for 100% Free Cooling	5	°C	1.20	1.70
Capacity Steps		%	25-45-65-85-100	20-40-55-75-85-100
Minimum Turndown Ratio			0.25	0.19
Dimensions (H x W x L)		mm	2415 x 2200 x 5956	2415 x 2200 x 7090
Mass				
Machine	3	kg	4655	5150
Operating		kg	5100	5680
Construction - Material / Colour			Base: Plain Galvanised Steel, Panels: Galvanised Sheet Steel, Epoxy Baked Powder Paint, Light Grey (RAL7035)	
Evaporator			Brazed 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)		m²	20.11	24.14
Nominal Airflow - High Airflow EC Fans			N/A	N/A
Nominal Airflow - EC Fans		m³/s	37	44.4
Nominal Airflow - AC Fans		m³/s	39.8	47.8
Condenser Fan & Motor			Sickle Bladed Fan	
Quantity			10	12
Diameter		mm	800	800
Maximum Speed - High Airflow EC Fans			N/A	N/A
Maximum Speed - EC Fans		rpm	657	657
Maximum Speed - AC Fans		rpm	726	726
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				
Refrigerant Control			Electronic Expansion Valve (EEV)	
Refrigerant Precharged			R410A	
Charge (Total)		kg	34 + 45	44 + 47
Connections			Grooved Terminations	
Water Inlet / Outlet - Unit			DN100	DN100
Water Drain / Bleed - Evap		inch	1/2	1/2
Water System				
Minimum System Water Volume	4	l	1840	1598
Maximum System Operating Pressure		Bar	10	10

(1) Based on units performance at 15/10°C return/supply temperatures, 35°C ambient, 20% Ethylene Glycol
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(6|) Nominal Free Cooling at 3°C

Electrical Data Free Cool Chiller Regular Quiet

ELECTRICAL DATA Unit Data			DCF014SR-04AL00	DCF017SR-04AM00	DCF021SR-04BS00
Nominal Run Amps	(1)	A	104.1	113.0	147.2
Maximum Start Amps		A	321.1	385.5	364.1
Recommended Mains Fuse Size		A	125	125	160
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	80	100
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	4	4
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	43.1	47.5	43.1
Quantity			2	2	3
Motor Rating		kW	24.0	28.2	24.0
Sump Heater Rating		W	75	130	75
Start Amps		A	260	320	260
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			36.5	42.8	36.5
Circuit 2 Comp RLA (PFC)			N/A	N/A	N/A
Nominal Run Amps		A	91.0	103.6	127.5
Maximum Start Amps		A	314.5	380.8	351.0
Compressor Nominal Run Amps		A	36.5	42.8	36.5
Recommended Mains Fuse Size		A	125	125	160
Electronic Soft-start					
Nominal Run Amps		A	104.1	113.0	147.2
Maximum Start Amps		A	217.1	257.5	260.1
Recommended Mains Fuse		A	125.0	125.0	160.0
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	91.0	103.6	127.5
Maximum Start Amps		A	210.5	252.8	247.0
Compressor Nominal Run Amps		A	36.5	42.8	36.5
Recommended Mains Fuse Size		A	125	125	160
Condenser Fan - Per Fan (EC Extra Freecooling)					
Quantity			4	4	4
Full Load Amps		A	4.5	4.5	4.5
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.86	2.86	2.86
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.6	8.9	8.9
Unit Nominal Run Amps		A	110.7	121.9	156.1
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	9.8	11.8	11.8
Unit Nominal Run Amps		A	113.9	124.8	159.0
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	110.4	119.3	155.2
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	112.1	121.0	158.4
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Free Cool Chiller Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCF025SR-06BT00	DCF013DR-04ACD0	DCF014DR-04ADD0
Nominal Run Amps	(1)	A	169.5	94.1	104.1
Maximum Start Amps		A	442.0	321.1	321.1
Recommended Mains Fuse Size		A	200	125	125
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	80	80
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			6	4	4
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	47.5	33.0 / 43.1	43.1 / 43.1
Quantity			3	1 + 1	1 + 1
Motor Rating		kW	28.2	18.8 / 24.0	24.0 / 24.0
Sump Heater Rating		W	130	75	75
Start Amps		A	320	215 / 260	260 / 260
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			42.8	28.5	36.5
Circuit 2 Comp RLA (PFC)			N/A	36.5	36.5
Nominal Run Amps		A	155.4	83.0	91.0
Maximum Start Amps		A	432.6	314.5	314.5
Compressor Nominal Run Amps		A	42.8	28.5 / 36.5	36.5 / 36.5
Recommended Mains Fuse Size		A	200	125	125
Electronic Soft-start					
Nominal Run Amps		A	169.5	94.1	104.1
Maximum Start Amps		A	314.0	207.0	217.1
Recommended Mains Fuse		A	200.0	125.0	125.0
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	155.4	83.0	91.0
Maximum Start Amps		A	304.6	202.5	210.5
Compressor Nominal Run Amps		A	42.8	28.5 / 36.5	36.5 / 36.5
Recommended Mains Fuse Size		A	200	125	125
Condenser Fan - Per Fan (EC Extra Freecooling)					
Quantity			6	4	4
Full Load Amps		A	4.5	4.5	4.5
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.86	2.86	2.86
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	12	6.6	6.6
Unit Nominal Run Amps		A	181.5	100.7	110.7
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	11.8	9.8	9.8
Unit Nominal Run Amps		A	181.3	103.9	113.9
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	180.7	100.4	110.4
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	184.3	102.1	112.1
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Free Cool Chiller Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCF015DR-04ADF0	DCF016DR-04AJJ0	DCF018DR-04BJK0
Nominal Run Amps	(1)	A	108.6	126.0	138.0
Maximum Start Amps		A	385.5	279.0	320.0
Recommended Mains Fuse Size		A	125	160	160
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	80	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	4	4
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	43.1 / 47.5	27.0 / 27.0	27.0 / 33.0
Quantity			1 + 1	4	2 + 2
Motor Rating		kW	24.0 / 28.2	13.7 / 13.7	13.7 / 18.8
Sump Heater Rating		W	75	75	75
Start Amps		A	260 / 320	180 / 180	180 / 215
Type Of Start			Direct on line	Direct on line	Direct on line
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			36.5	20.9	20.9
Circuit 2 Comp RLA (PFC)			42.8	20.9	28.5
Nominal Run Amps		A	97.3	101.4	116.7
Maximum Start Amps		A	380.8	260.6	303.2
Compressor Nominal Run Amps		A	36.5 / 42.8	20.9 / 20.9	20.9 / 28.5
Recommended Mains Fuse Size		A	125	160	160
Electronic Soft-start					
Nominal Run Amps		A	108.6	126.0	138.0
Maximum Start Amps		A	253.1	207.0	234.0
Recommended Mains Fuse		A	125.0	160.0	160.0
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	97.3	101.4	116.7
Maximum Start Amps		A	246.5	188.6	217.2
Compressor Nominal Run Amps		A	36.5 / 42.8	20.9 / 20.9	20.9 / 28.5
Recommended Mains Fuse Size		A	125	160	160
Condenser Fan - Per Fan (EC Extra Freecooling)					
Quantity			4	4	4
Full Load Amps		A	4.5	4.5	4.5
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.86	2.86	2.86
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.9	8.9	8.9
Unit Nominal Run Amps		A	117.5	134.9	146.9
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	11.8	11.8	11.8
Unit Nominal Run Amps		A	120.4	137.8	149.8
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	114.9	132.3	146.0
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	116.6	134.0	149.2
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Free Cool Chiller Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCF020DR-06BFK0	DCF023DR-06BKK0	DCF026DR-06BKL0
Nominal Run Amps	(1)	A	140.5	159.1	179.2
Maximum Start Amps		A	413.0	341.1	396.1
Recommended Mains Fuse Size		A	160	200	200
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			6	6	6
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	47.5 / 33.0	33.0 / 33.0	33.0 / 43.1
Quantity			1 + 2	2 + 2	2 + 2
Motor Rating		kW	28.2 / 18.8	18.8 / 18.8	18.8 / 24.0
Sump Heater Rating		W	130 / 75	75	75
Start Amps		A	320 / 215	215 / 215	215 / 260
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			42.8	28.5	28.5
Circuit 2 Comp RLA (PFC)			28.5	28.5	36.5
Nominal Run Amps		A	126.8	141.0	157.0
Maximum Start Amps		A	404.0	327.5	380.5
Compressor Nominal Run Amps		A	42.8 / 28.5	28.5 / 28.5	28.5 / 36.5
Recommended Mains Fuse Size		A	160	200	200
Electronic Soft-start					
Nominal Run Amps		A	140.5	159.1	179.2
Maximum Start Amps		A	285.0	255.1	292.1
Recommended Mains Fuse		A	160.0	200.0	200.0
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	126.8	141.0	157.0
Maximum Start Amps		A	276.0	241.5	276.5
Compressor Nominal Run Amps		A	42.8 / 28.5	28.5 / 28.5	28.5 / 36.5
Recommended Mains Fuse Size		A	160	200	200
Condenser Fan - Per Fan (EC Extra Freecooling)					
Quantity			6	6	6
Full Load Amps		A	4.5	4.5	4.5
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.86	2.86	2.86
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.9	8.9	12
Unit Nominal Run Amps		A	149.4	168.0	191.2
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	11.8	11.8	11.8
Unit Nominal Run Amps		A	152.3	170.9	191.0
Recommended Mains Fuse Size		A	200	200	250
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	148.5	167.1	190.4
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	151.7	170.3	194.0
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Free Cool Chiller Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCF029DR-06BLL0	DCF032DR-08BLM0	DCF035DR-08BMM0
Nominal Run Amps	(1)	A	199.2	217.1	226.0
Maximum Start Amps		A	416.2	489.6	498.5
Recommended Mains Fuse Size		A	250	250	250
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			6	8	8
Full Load Amps		A	4.3	4.3	4.3
Locked Rotor Amps		A	15	15	15
Motor Rating		kW	2	2	2
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	43.1 / 43.1	43.1 / 47.5	47.5 / 47.5
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	24.0 / 24.0	24.0 / 28.2	28.2 / 28.2
Sump Heater Rating		W	75	75 + 130	130
Start Amps		A	260 / 260	260 / 320	320 / 320
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			36.5	36.5	42.8
Circuit 2 Comp RLA (PFC)			36.5	42.8	42.8
Nominal Run Amps		A	172.9	194.5	207.1
Maximum Start Amps		A	396.5	471.8	484.4
Compressor Nominal Run Amps		A	36.5 / 36.5	36.5 / 42.8	42.8 / 42.8
Recommended Mains Fuse Size		A	250	250	250
Electronic Soft-start					
Nominal Run Amps		A	199.2	217.1	226.0
Maximum Start Amps		A	312.2	361.6	370.5
Recommended Mains Fuse		A	250.0	250.0	250.0
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	172.9	194.5	207.1
Maximum Start Amps		A	292.5	343.8	356.4
Compressor Nominal Run Amps		A	36.5 / 36.5	36.5 / 42.8	42.8 / 42.8
Recommended Mains Fuse Size		A	250	250	250
Condenser Fan - Per Fan (EC Extra Freecooling)					
Quantity			6	8	8
Full Load Amps		A	4.5	4.5	4.5
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.86	2.86	2.86
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	12	12	12
Unit Nominal Run Amps		A	211.2	229.1	238.0
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	14	14	14
Unit Nominal Run Amps		A	213.2	231.1	240.0
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	210.4	228.3	237.2
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	214.0	231.9	240.8
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, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Free Cool Chiller Regular Quiet Continued

ELECTRICAL DATA Unit Data			DCF039DR-10BMS0	DCF044DR-10BSS0	DCF014SX-04AL00
Nominal Run Amps	(1)	A	269.2	303.4	96.1
Maximum Start Amps		A	541.7	520.3	313.1
Recommended Mains Fuse Size		A	315	315	125
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	80
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			10	10	4
Full Load Amps		A	4.3	4.3	2.5
Locked Rotor Amps		A	15	15	8.8
Motor Rating		kW	2	2	1.27
Condenser Fan - Per Fan (EC)					
Quantity			10	10	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	47.5 / 43.1	43.1 / 43.1	43.1
Quantity			2 + 3	3 + 3	2
Motor Rating		kW	28.2 / 24.0	24.0 / 24.0	24.0
Sump Heater Rating		W	130 + 75	75	75
Start Amps		A	320 / 260	260 / 260	260
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			42.8	36.5	36.5
Circuit 2 Comp RLA (PFC)			36.5	36.5	N/A
Nominal Run Amps		A	240.0	263.9	83.0
Maximum Start Amps		A	517.2	487.4	306.5
Compressor Nominal Run Amps		A	42.8 / 36.5	36.5 / 36.5	36.5
Recommended Mains Fuse Size		A	315	315	125
Electronic Soft-start					
Nominal Run Amps		A	269.2	303.4	96.1
Maximum Start Amps		A	413.7	416.3	209.1
Recommended Mains Fuse		A	315.0	315.0	125.0
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	240.0	263.9	83.0
Maximum Start Amps		A	389.2	383.4	202.5
Compressor Nominal Run Amps		A	42.8 / 36.5	36.5 / 36.5	36.5
Recommended Mains Fuse Size		A	315	315	125
Condenser Fan - Per Fan (EC Extra Freecooling)					
Quantity			10	10	N/A
Full Load Amps		A	4.5	4.5	N/A
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	2.86	2.86	N/A
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	14	14	6.6
Unit Nominal Run Amps		A	283.2	317.4	102.7
Recommended Mains Fuse Size		A	315	355	125
Motor Rating		kW	7.5	7.5	3
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	20.8	20.8	9.8
Unit Nominal Run Amps		A	290.0	324.2	105.9
Recommended Mains Fuse Size		A	315	355	125
Motor Rating		kW	11	11	4
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	14.8	14.8	6.3
Unit Nominal Run Amps		A	284.0	318.2	102.4
Recommended Mains Fuse Size		A	315	355	125
Motor Rating		kW	7.5	7.5	3
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	21.2	21.2	8
Unit Nominal Run Amps		A	290.4	324.6	104.1
Recommended Mains Fuse Size		A	315	355	125
Motor Rating		kW	11	11	4

(1) Based at 7.2°C Evap / 54.4°C Condensing, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Free Cool Chiller Extra Quiet

ELECTRICAL DATA Unit Data			DCF017SX-04AM00	DCF021SX-06BS00	DCF025SX-06BT00
Nominal Run Amps	(1)	A	105.0	144.2	157.5
Maximum Start Amps		A	377.5	318.1	382.5
Recommended Mains Fuse Size		A	125	200	200
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	100	100
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	6	6
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
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	47.5	43.1	47.5
Quantity			2	3	3
Motor Rating		kW	28.2	24.0	28.2
Sump Heater Rating		W	130	75	130
Start Amps		A	320	260	320
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			42.8	36.5	42.8
Circuit 2 Comp RLA (PFC)			N/A	N/A	N/A
Nominal Run Amps		A	95.6	124.5	143.4
Maximum Start Amps		A	372.8	311.5	377.8
Compressor Nominal Run Amps		A	42.8	36.5	42.8
Recommended Mains Fuse Size		A	125	160	200
Electronic Soft-start					
Nominal Run Amps		A	105.0	144.2	157.5
Maximum Start Amps		A	249.5	257.1	302.0
Recommended Mains Fuse		A	125.0	200.0	200.0
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	95.6	124.5	143.4
Maximum Start Amps		A	244.8	244.0	292.6
Compressor Nominal Run Amps		A	42.8	36.5	42.8
Recommended Mains Fuse Size		A	125	160	200
Condenser Fan - Per Fan (EC Extra Freecooling)					
Quantity			N/A	N/A	N/A
Full Load Amps		A	N/A	N/A	N/A
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	N/A	N/A	N/A
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.9	8.9	8.9
Unit Nominal Run Amps		A	113.9	153.1	166.4
Recommended Mains Fuse Size		A	160	200	200
Motor Rating		kW	4	4	4
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	11.8	11.8	11.8
Unit Nominal Run Amps		A	116.8	156.0	169.3
Recommended Mains Fuse Size		A	160	200	200
Motor Rating		kW	5.5	5.5	5.5
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.3	8	11.2
Unit Nominal Run Amps		A	111.3	152.2	168.7
Recommended Mains Fuse Size		A	160	200	200
Motor Rating		kW	3	4	5.5
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8	11.2	14.8
Unit Nominal Run Amps		A	113.0	155.4	172.3
Recommended Mains Fuse Size		A	160	200	200
Motor Rating		kW	4	5.5	7.5

(1) Based at 7.2°C Evap / 54.4°C Condensing, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Free Cool Chiller Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCF013DX-04ACD0	DCF014DX-04ADD0	DCF015DX-04ADF0
Nominal Run Amps	(1)	A	86.1	96.1	100.6
Maximum Start Amps		A	313.1	313.1	377.5
Recommended Mains Fuse Size		A	125	125	125
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	80	80
External Trace Heating					
Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	4	4
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
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	33.0 / 43.1	43.1 / 43.1	43.1 / 47.5
Quantity			1 + 1	1 + 1	1 + 1
Motor Rating		kW	18.8 / 24.0	24.0 / 24.0	24.0 / 28.2
Sump Heater Rating		W	75	75	75
Start Amps		A	215 / 260	260 / 260	260 / 320
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			28.5	36.5	36.5
Circuit 2 Comp RLA (PFC)			36.5	36.5	42.8
Nominal Run Amps		A	75.0	83.0	89.3
Maximum Start Amps		A	306.5	306.5	372.8
Compressor Nominal Run Amps		A	28.5 / 36.5	36.5 / 36.5	36.5 / 42.8
Recommended Mains Fuse Size		A	125	125	125
Electronic Soft-start					
Nominal Run Amps		A	86.1	96.1	100.6
Maximum Start Amps		A	199.0	209.1	245.1
Recommended Mains Fuse		A	125.0	125.0	125.0
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	75.0	83.0	89.3
Maximum Start Amps		A	194.5	202.5	238.5
Compressor Nominal Run Amps		A	28.5 / 36.5	36.5 / 36.5	36.5 / 42.8
Recommended Mains Fuse Size		A	125	125	125
Condenser Fan - Per Fan (EC Extra Freecooling)					
Quantity			N/A	N/A	N/A
Full Load Amps		A	N/A	N/A	N/A
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	N/A	N/A	N/A
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.6	6.6	6.6
Unit Nominal Run Amps		A	92.7	102.7	107.2
Recommended Mains Fuse Size		A	125	125	125
Motor Rating		kW	3	3	3
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	9.8	9.8	9.8
Unit Nominal Run Amps		A	95.9	105.9	110.4
Recommended Mains Fuse Size		A	125	125	125
Motor Rating		kW	4	4	4
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.3	6.3	6.3
Unit Nominal Run Amps		A	92.4	102.4	106.9
Recommended Mains Fuse Size		A	125	125	125
Motor Rating		kW	3	3	3
Larger Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8	8	8
Unit Nominal Run Amps		A	94.1	104.1	108.6
Recommended Mains Fuse Size		A	125	125	125
Motor Rating		kW	4	4	4

(1) Based at 7.2°C Evap / 54.4°C Condensing, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Free Cool Chiller Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCF016DX-04AJJ0	DCF018DX-04BJK0	DCF020DX-06BFK0
Nominal Run Amps	(1)	A	118.0	130.0	128.5
Maximum Start Amps		A	271.0	312.0	401.0
Recommended Mains Fuse Size		A	160	160	160
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	80	100	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			4	4	6
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
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	27.0 / 27.0	27.0 / 33.0	47.5 / 33.0
Quantity			4	2 + 2	1 + 2
Motor Rating		kW	13.7 / 13.7	13.7 / 18.8	28.2 / 18.8
Sump Heater Rating		W	75	75	130 / 75
Start Amps		A	180 / 180	180 / 215	320 / 215
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			20.9	20.9	42.8
Circuit 2 Comp RLA (PFC)			20.9	28.5	28.5
Nominal Run Amps		A	93.4	108.7	114.8
Maximum Start Amps		A	252.6	295.2	392.0
Compressor Nominal Run Amps		A	20.9 / 20.9	20.9 / 28.5	42.8 / 28.5
Recommended Mains Fuse Size		A	160	160	160
Electronic Soft-start					
Nominal Run Amps		A	118.0	130.0	128.5
Maximum Start Amps		A	199.0	226.0	273.0
Recommended Mains Fuse		A	160.0	160.0	160.0
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	93.4	108.7	114.8
Maximum Start Amps		A	180.6	209.2	264.0
Compressor Nominal Run Amps		A	20.9 / 20.9	20.9 / 28.5	42.8 / 28.5
Recommended Mains Fuse Size		A	160	160	160
Condenser Fan - Per Fan (EC Extra Freecooling)					
Quantity			N/A	N/A	N/A
Full Load Amps		A	N/A	N/A	N/A
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	N/A	N/A	N/A
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.9	8.9	8.9
Unit Nominal Run Amps		A	126.9	138.9	137.4
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	11.8	11.8	11.8
Unit Nominal Run Amps		A	129.8	141.8	140.3
Recommended Mains Fuse Size		A	160	160	200
Motor Rating		kW	5.5	5.5	5.5
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	6.3	8	8
Unit Nominal Run Amps		A	124.3	138.0	136.5
Recommended Mains Fuse Size		A	160	160	160
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	126.0	141.2	139.7
Recommended Mains Fuse Size		A	160	160	160
Motor Rating		kW	4	5.5	5.5

(1) Based at 7.2°C Evap / 54.4°C Condensing, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Free Cool Chiller Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCF023DX-06BKK0	DCF026DX-08BKL0	DCF029DX-08BLL0
Nominal Run Amps	(1)	A	147.1	172.2	192.2
Maximum Start Amps		A	329.1	389.1	409.2
Recommended Mains Fuse Size		A	160	200	250
Mains Supply		VAC		400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²		Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16	16
Permanent Supply		VAC		230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²		4 mm² terminals	
Control Circuit		VAC		24V/230VAC	
Evaporator					
Pad Heater Rating		W	100	100	100
External Trace Heating Available (fitted by others)		W	500	500	500
Condenser Fan - Per Fan (AC)					
Quantity			6	8	8
Full Load Amps		A	2.5	2.5	2.5
Locked Rotor Amps		A	8.8	8.8	8.8
Motor Rating		kW	1.27	1.27	1.27
Condenser Fan - Per Fan (EC)					
Quantity			6	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	33.0 / 33.0	33.0 / 43.1	43.1 / 43.1
Quantity			2 + 2	2 + 2	2 + 2
Motor Rating		kW	18.8 / 18.8	18.8 / 24.0	24.0 / 24.0
Sump Heater Rating		W	75	75	75
Start Amps		A	215 / 215	215 / 260	260 / 260
Type Of Start				Direct on line	
OPTIONAL EXTRAS					
Power Factor Correction					
Circuit 1 Comp RLA (PFC)			28.5	28.5	36.5
Circuit 2 Comp RLA (PFC)			28.5	36.5	36.5
Nominal Run Amps		A	129.0	150.0	165.9
Maximum Start Amps		A	315.5	373.5	389.5
Compressor Nominal Run Amps		A	28.5 / 28.5	28.5 / 36.5	36.5 / 36.5
Recommended Mains Fuse Size		A	160	200	250
Electronic Soft-start					
Nominal Run Amps		A	147.1	172.2	192.2
Maximum Start Amps		A	243.1	285.1	305.2
Recommended Mains Fuse		A	160.0	200.0	250.0
Power Factor Correction & Electronic Soft Start					
Nominal Run Amps		A	129.0	150.0	165.9
Maximum Start Amps		A	229.5	269.5	285.5
Compressor Nominal Run Amps		A	28.5 / 28.5	28.5 / 36.5	36.5 / 36.5
Recommended Mains Fuse Size		A	160	200	250
Condenser Fan - Per Fan (EC Extra Freecooling)					
Quantity			N/A	N/A	N/A
Full Load Amps		A	N/A	N/A	N/A
Locked Rotor Amps		A	N/A	N/A	N/A
Motor Rating		kW	N/A	N/A	N/A
Standard Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8.9	12	12
Unit Nominal Run Amps		A	156.0	184.2	204.2
Recommended Mains Fuse Size		A	200	250	250
Motor Rating		kW	4	5.5	5.5
Larger Head Pump (Single or Run/Standby)					
Pump Full Load Amps		A	11.8	11.8	14
Unit Nominal Run Amps		A	158.9	184.0	206.2
Recommended Mains Fuse Size		A	200	200	250
Motor Rating		kW	5.5	5.5	7.5
Standard Head Inverter Pump (Single or Run/Standby)					
Pump Full Load Amps		A	8	11.2	11.2
Unit Nominal Run Amps		A	155.1	183.4	203.4
Recommended Mains Fuse Size		A	200	250	250
Motor Rating		kW	4	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	158.3	187.0	207.0
Recommended Mains Fuse Size		A	200	200	250
Motor Rating		kW	5.5	7.5	7.5

(1) Based at 7.2°C Evap / 54.4°C Condensing, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Free Cool Chiller Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCF032DX-08BLM0	DCF035DX-08BMM0
Nominal Run Amps	(1)	A	201.1	210.0
Maximum Start Amps		A	473.6	482.5
Recommended Mains Fuse Size		A	250	250
Mains Supply		VAC	400 V 3 PH 50 Hz	
Max Mains Incoming Cable Size		mm²	Direct to Bus Bar	
Recommended Permanent Fuse Size		A	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²	4 mm² terminals	
Control Circuit		VAC	24V/230VAC	
Evaporator				
Pad Heater Rating		W	100	100
External Trace Heating				
Available (fitted by others)		W	500	500
Condenser Fan - Per Fan (AC)				
Quantity			8	8
Full Load Amps		A	2.5	2.5
Locked Rotor Amps		A	8.8	8.8
Motor Rating		kW	1.27	1.27
Condenser Fan - Per Fan (EC)				
Quantity			8	8
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	43.1 / 47.5	47.5 / 47.5
Quantity			2 + 2	2 + 2
Motor Rating		kW	24.0 / 28.2	28.2 / 28.2
Sump Heater Rating		W	75 + 130	130
Start Amps		A	260 / 320	320 / 320
Type Of Start			Direct on line	
OPTIONAL EXTRAS				
Power Factor Correction				
Circuit 1 Comp RLA (PFC)			36.5	42.8
Circuit 2 Comp RLA (PFC)			42.8	42.8
Nominal Run Amps		A	178.5	191.1
Maximum Start Amps		A	455.8	468.4
Compressor Nominal Run Amps		A	36.5 / 42.8	42.8 / 42.8
Recommended Mains Fuse Size		A	250	250
Electronic Soft-start				
Nominal Run Amps		A	201.1	210.0
Maximum Start Amps		A	345.6	354.5
Recommended Mains Fuse		A	250.0	250.0
Power Factor Correction & Electronic Soft Start				
Nominal Run Amps		A	178.5	191.1
Maximum Start Amps		A	327.8	340.4
Compressor Nominal Run Amps		A	36.5 / 42.8	42.8 / 42.8
Recommended Mains Fuse Size		A	250	250
Condenser Fan - Per Fan (EC Extra Freecooling)				
Quantity			N/A	N/A
Full Load Amps		A	N/A	N/A
Locked Rotor Amps		A	N/A	N/A
Motor Rating		kW	N/A	N/A
Standard Head Pump (Single or Run/Standby)				
Pump Full Load Amps		A	12	12
Unit Nominal Run Amps		A	213.1	222.0
Recommended Mains Fuse Size		A	250	250
Motor Rating		kW	5.5	5.5
Larger Head Pump (Single or Run/Standby)				
Pump Full Load Amps		A	14	14
Unit Nominal Run Amps		A	215.1	224.0
Recommended Mains Fuse Size		A	250	250
Motor Rating		kW	7.5	7.5
Standard Head Inverter Pump (Single or Run/Standby)				
Pump Full Load Amps		A	11.2	11.2
Unit Nominal Run Amps		A	212.3	221.2
Recommended Mains Fuse Size		A	250	250
Motor Rating		kW	5.5	5.5
Larger Head Inverter Pump (Single or Run/Standby)				
Pump Full Load Amps		A	14.8	14.8
Unit Nominal Run Amps		A	215.9	224.8
Recommended Mains Fuse Size		A	250	250
Motor Rating		kW	7.5	7.5

(1) Based at 7.2°C Evap / 54.4°C Condensing, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Electrical Data Free Cool Chiller Extra Quiet Continued

ELECTRICAL DATA Unit Data			DCF039DX-10BMS0	DCF044DX-12BSS0
Nominal Run Amps	(1)	A	249.2	288.4
Maximum Start Amps		A	521.7	505.3
Recommended Mains Fuse Size		A	315	315
Mains Supply		VAC		
Max Mains Incoming Cable Size		mm²		
Recommended Permanent Fuse Size		A	16	16
Permanent Supply		VAC	230 V 1 PH 50 Hz	
Max Permanent Incoming Cable Size		mm²	4 mm² terminals	
Control Circuit		VAC	24V/230VAC	
Evaporator				
Pad Heater Rating		W	100	100
External Trace Heating				
Available (fitted by others)		W	500	500
Condenser Fan - Per Fan (AC)				
Quantity			10	12
Full Load Amps		A	2.5	2.5
Locked Rotor Amps		A	8.8	8.8
Motor Rating		kW	1.27	1.27
Condenser Fan - Per Fan (EC)				
Quantity			10	12
Full Load Amps		A	3.4	3.4
Locked Rotor Amps		A	N/A	N/A
Motor Rating		kW	2.2	2.2
Compressor - Per Compressor				
Nominal Run Amps		A	47.5 / 43.1	43.1 / 43.1
Quantity			2 + 3	3 + 3
Motor Rating		kW	28.2 / 24.0	24.0 / 24.0
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				
Circuit 1 Comp RLA (PFC)			42.8	36.5
Circuit 2 Comp RLA (PFC)			36.5	36.5
Nominal Run Amps		A	220.0	248.9
Maximum Start Amps		A	497.2	472.4
Compressor Nominal Run Amps		A	42.8 / 36.5	36.5 / 36.5
Recommended Mains Fuse Size		A	315	315
Electronic Soft-start				
Nominal Run Amps		A	249.2	288.4
Maximum Start Amps		A	393.7	401.3
Recommended Mains Fuse		A	315.0	315.0
Power Factor Correction & Electronic Soft Start				
Nominal Run Amps		A	220.0	248.9
Maximum Start Amps		A	369.2	368.4
Compressor Nominal Run Amps		A	42.8 / 36.5	36.5 / 36.5
Recommended Mains Fuse Size		A	315	315
Condenser Fan - Per Fan (EC Extra Freecooling)				
Quantity			N/A	N/A
Full Load Amps		A	N/A	N/A
Locked Rotor Amps		A	N/A	N/A
Motor Rating		kW	N/A	N/A
Standard Head Pump (Single or Run/Standby)				
Pump Full Load Amps		A	14	14
Unit Nominal Run Amps		A	263.2	302.4
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	20.8	20.8
Unit Nominal Run Amps		A	270.0	309.2
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	264.0	303.2
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	270.4	309.6
Recommended Mains Fuse Size		A	315	355
Motor Rating		kW	11	11

(1) Based at 7.2°C Evap / 54.4°C Condensing, AC Standard Fans.
(2) Starting amps refers to the direct on line connections.

Sound Data
DeltaChill Free Cool AC Fans Regular Quiet

Model	Sound	63 Hz dB	125 Hz dB	250 Hz dB	500 Hz dB	1000 Hz dB	2000 Hz dB	4000 Hz dB	8000 Hz dB	Total dBA
DCF014SR-04AL00	Power	89.0	87.2	85.9	89.7	86.0	77.4	72.5	66.4	90.1
	Pressure (@10m)	56.9	55.1	53.8	57.6	53.9	45.3	40.4	34.3	58.0
DCF017SR-04AM00	Power	88.7	87.2	86.0	91.8	89.6	77.0	71.6	64.8	92.6
	Pressure (@10m)	56.6	55.1	53.9	59.7	57.5	44.9	39.5	32.7	60.5
DCF021SR-04BS00	Power	89.1	87.2	85.9	91.3	87.4	78.6	73.9	67.9	91.5
	Pressure (@10m)	57.1	55.1	53.8	59.3	55.3	46.5	41.8	35.8	59.4
DCF025SR-06BT00	Power	90.5	89.0	87.8	93.6	91.3	78.8	73.3	66.5	94.3
	Pressure (@10m)	58.1	56.6	55.4	61.2	59.0	46.4	41.0	34.2	62.0
DCF013DR-04ACD0	Power	88.6	87.0	85.7	88.1	85.0	79.0	73.8	67.8	89.2
	Pressure (@10m)	56.5	54.9	53.6	56.0	52.9	46.9	41.7	35.7	57.1
DCF014DR-04ADD0	Power	89.0	87.2	85.9	89.7	86.0	77.4	72.5	66.4	90.1
	Pressure (@10m)	56.9	55.1	53.8	57.6	53.9	45.3	40.4	34.3	58.0
DCF015DR-04ADF0	Power	88.9	87.2	86.0	90.9	88.1	77.2	72.1	65.7	91.5
	Pressure (@10m)	56.8	55.1	53.9	58.8	56.0	45.1	40.0	33.6	59.4
DCF016DR-04AJJ0	Power	88.6	87.2	85.9	88.2	86.1	78.2	74.4	65.3	89.7
	Pressure (@10m)	56.5	55.1	53.8	56.1	54.0	46.2	42.4	33.3	57.6
DCF018DR-04BJK0	Power	88.7	87.2	85.9	88.2	86.1	81.1	76.3	69.5	90.1
	Pressure (@10m)	56.6	55.1	53.8	56.1	54.0	49.0	44.2	37.5	58.0
DCF020DR-06BFK0	Power	89.8	88.3	87.2	90.5	88.4	81.1	75.7	69.6	91.9
	Pressure (@10m)	57.4	55.9	54.9	58.1	56.0	48.7	43.4	37.2	59.5
DCF023DR-06BKK0	Power	90.5	89.0	87.7	88.4	86.6	83.0	77.7	71.8	90.9
	Pressure (@10m)	58.2	56.6	55.3	56.0	54.2	50.7	45.4	39.4	58.6
DCF026DR-06BKL0	Power	90.7	89.0	87.7	91.0	87.8	81.8	76.7	70.7	92.0
	Pressure (@10m)	58.3	56.6	55.3	58.6	55.4	49.4	44.3	38.3	59.6
DCF029DR-06BLL0	Power	90.8	89.0	87.7	92.6	88.7	80.0	75.3	69.2	92.9
	Pressure (@10m)	58.5	56.6	55.3	60.3	56.4	47.6	42.9	36.8	60.5
DCF032DR-08BLM0	Power	91.9	90.2	89.0	93.9	91.1	80.2	75.1	68.7	94.5
	Pressure (@10m)	59.3	57.6	56.4	61.3	58.5	47.6	42.5	36.1	61.9
DCF035DR-08BMM0	Power	91.7	90.2	89.0	94.8	92.6	80.0	74.6	67.8	95.6
	Pressure (@10m)	59.1	57.6	56.4	62.2	60.0	47.4	42.0	35.2	63.0
DCF039DR-10BMS0	Power	92.9	91.2	89.9	94.7	91.7	81.2	76.1	69.8	95.2
	Pressure (@10m)	60.0	58.4	57.1	61.8	58.9	48.4	43.3	37.0	62.4
DCF044DR-10BSS0	Power	93.0	91.2	89.9	94.4	90.6	81.9	77.1	71.0	94.7
	Pressure (@10m)	60.2	58.4	57.0	61.6	57.7	49.0	44.3	38.2	61.9

1 dB(A) is the overall sound level, measured on the A scale.
2 All sound data measured at nominal conditions: Water in/out 15/10°C at 35°C ambient.
3 Based on standard unit, for units fitted with optional pump packages please contact Airedale.

Sound Data
DeltaChill Free Cool AC Fans Extra Quiet

Model	Sound	63 Hz dB	125 Hz dB	250 Hz dB	500 Hz dB	1000 Hz dB	2000 Hz dB	4000 Hz dB	8000 Hz dB	Total dBA
DCF014SX-04AL00	Power	87.7	77.2	76.5	78.9	80.1	68.7	67.5	58.8	82.2
	Pressure (@10m)	55.6	45.1	44.4	46.8	48.0	36.6	35.4	26.8	50.1
DCF017SX-04AM00	Power	87.4	77.2	77.4	81.2	83.9	68.5	66.1	57.2	85.3
	Pressure (@10m)	55.3	45.1	45.3	49.1	51.8	36.4	34.0	25.1	53.2
DCF021SX-06BS00	Power	89.5	79.0	78.3	80.7	81.8	70.4	69.2	60.6	84.0
	Pressure (@10m)	57.1	46.6	45.9	48.3	49.5	38.1	36.9	28.3	51.6
DCF025SX-06BT00	Power	89.2	79.0	79.1	83.0	85.7	70.3	67.8	59.0	87.0
	Pressure (@10m)	56.8	46.6	46.8	50.6	53.3	37.9	35.5	26.6	54.7
DCF013DX-04ACD0	Power	87.6	77.2	76.6	77.7	79.1	69.5	68.9	60.3	81.5
	Pressure (@10m)	55.5	45.1	44.5	45.6	47.0	37.4	36.8	28.2	49.4
DCF014DX-04ADD0	Power	87.7	77.2	76.5	78.9	80.1	68.7	67.5	58.8	82.2
	Pressure (@10m)	55.6	45.1	44.4	46.8	48.0	36.6	35.4	26.8	50.1
DCF015DX-04ADF0	Power	87.6	77.2	77.0	80.2	82.4	68.6	66.8	58.1	84.0
	Pressure (@10m)	55.5	45.1	44.9	48.1	50.3	36.5	34.7	26.0	51.9
DCF016DX-04AJJ0	Power	87.2	77.2	76.9	79.5	80.2	69.2	67.6	57.8	82.5
	Pressure (@10m)	55.1	45.1	44.8	47.4	48.1	37.1	35.5	25.7	50.4
DCF018DX-04BJK0	Power	87.4	77.2	76.9	78.8	80.2	70.8	70.9	62.0	82.7
	Pressure (@10m)	55.3	45.1	44.8	46.7	48.1	38.7	38.8	29.9	50.6
DCF020DX-06BFK0	Power	89.1	79.0	78.7	80.2	82.6	71.4	70.8	62.1	84.5
	Pressure (@10m)	56.8	46.6	46.3	47.9	50.3	39.1	38.4	29.8	52.2
DCF023DX-06BKK0	Power	89.2	79.0	78.5	78.5	80.6	72.6	72.8	64.2	83.2
	Pressure (@10m)	56.8	46.6	46.1	46.1	48.2	40.3	40.5	31.9	50.9
DCF026DX-08BKL0	Power	90.6	80.2	79.6	80.7	82.1	72.5	71.9	63.3	84.5
	Pressure (@10m)	58.0	47.6	47.0	48.1	49.5	39.9	39.3	30.7	51.9
DCF029DX-08BLL0	Power	90.7	80.2	79.5	81.9	83.1	71.7	70.5	61.9	85.2
	Pressure (@10m)	58.1	47.6	46.9	49.3	50.5	39.1	37.9	29.3	52.6
DCF032DX-08BLM0	Power	90.6	80.2	80.0	83.2	85.4	71.6	69.8	61.1	87.0
	Pressure (@10m)	58.0	47.6	47.4	50.6	52.8	39.0	37.2	28.5	54.4
DCF035DX-08BMM0	Power	90.4	80.2	80.4	84.2	86.9	71.5	69.1	60.2	88.3
	Pressure (@10m)	57.8	47.6	47.8	51.6	54.3	38.9	36.5	27.6	55.7
DCF039DX-10BMS0	Power	91.6	81.2	80.9	84.0	86.0	72.6	71.0	62.3	87.7
	Pressure (@10m)	58.7	48.3	48.0	51.1	53.2	39.7	38.1	29.4	54.8
DCF044DX-12BSS0	Power	92.5	82.0	81.3	83.7	84.8	73.4	72.2	63.6	87.0
	Pressure (@10m)	59.5	48.9	48.2	50.6	51.8	40.4	39.2	30.6	53.9

1 dB(A) is the overall sound level, measured on the A scale.
2 All sound data measured at nominal conditions: Water in/out 15/10°C at 35°C ambient.
3 Based on standard unit, for units fitted with optional pump packages please contact Airedale.

Sound Data
DeltaChill Free Cool EC Fans Regular Quiet

Model	Sound	63 Hz dB	125 Hz dB	250 Hz dB	500 Hz dB	1000 Hz dB	2000 Hz dB	4000 Hz dB	8000 Hz dB	Total dBA
DCF014SR-04AL00	Power	87.4	83.2	81.8	89.5	85.8	76.6	72.1	66.3	89.7
	Pressure (@10m)	55.3	51.1	49.7	57.5	53.7	44.5	40.0	34.2	57.6
DCF017SR-04AM00	Power	90.7	88.0	86.2	91.8	89.8	77.5	72.0	65.6	92.7
	Pressure (@10m)	58.6	55.9	54.1	59.7	57.7	45.4	39.9	33.6	60.6
DCF021SR-04BS00	Power	101.0	94.3	90.8	91.6	88.5	81.2	75.3	69.2	92.8
	Pressure (@10m)	68.9	62.2	58.7	59.5	56.4	49.1	43.2	37.1	60.7
DCF025SR-06BT00	Power	92.6	89.8	88.1	93.6	91.5	79.3	73.8	67.4	94.5
	Pressure (@10m)	60.2	57.5	55.7	61.2	59.2	47.0	41.4	35.1	62.2
DCF013DR-04ACD0	Power	87.4	81.1	79.8	87.8	84.5	78.3	73.4	67.5	88.6
	Pressure (@10m)	55.3	49.1	47.7	55.7	52.4	46.2	41.3	35.4	56.5
DCF014DR-04ADD0	Power	87.3	83.1	81.7	89.5	85.8	76.6	72.1	66.2	89.7
	Pressure (@10m)	55.3	51.0	49.6	57.5	53.7	44.5	40.0	34.2	57.6
DCF015DR-04ADF0	Power	89.4	86.3	84.6	90.8	88.2	77.1	72.1	66.0	91.5
	Pressure (@10m)	57.3	54.2	52.5	58.7	56.1	45.0	40.0	33.9	59.4
DCF016DR-04AJJ0	Power	90.0	87.5	85.7	88.2	86.4	78.5	74.6	66.0	89.8
	Pressure (@10m)	57.9	55.4	53.6	56.1	54.4	46.4	42.5	33.9	57.8
DCF018DR-04BJK0	Power	98.3	92.1	89.0	88.4	87.0	82.1	76.8	70.2	91.1
	Pressure (@10m)	66.2	60.0	56.9	56.3	54.9	50.0	44.7	38.1	59.0
DCF020DR-06BFK0	Power	89.3	84.1	82.8	90.3	88.2	80.5	75.4	69.4	91.5
	Pressure (@10m)	56.9	51.7	50.4	57.9	55.8	48.2	43.1	37.1	59.1
DCF023DR-06BKK0	Power	89.4	86.4	85.0	88.1	86.6	82.8	77.6	71.8	90.6
	Pressure (@10m)	57.0	54.1	52.6	55.8	54.2	50.5	45.3	39.4	58.3
DCF026DR-06BKL0	Power	97.5	92.2	89.4	91.1	88.4	82.5	77.1	71.2	92.6
	Pressure (@10m)	65.2	59.8	57.1	58.7	56.1	50.1	44.7	38.8	60.2
DCF029DR-06BLL0	Power	100.2	94.5	91.5	92.8	89.7	82.1	76.4	70.4	93.9
	Pressure (@10m)	67.8	62.2	59.2	60.5	57.4	49.7	44.1	38.0	61.5
DCF032DR-08BLM0	Power	92.3	89.2	87.5	93.8	91.2	80.1	75.1	69.0	94.5
	Pressure (@10m)	59.7	56.6	54.9	61.2	58.6	47.5	42.5	36.4	61.9
DCF035DR-08BMM0	Power	93.5	90.9	89.1	94.8	92.8	80.5	75.0	68.6	95.7
	Pressure (@10m)	60.9	58.3	56.5	62.2	60.2	47.9	42.4	36.0	63.1
DCF039DR-10BMS0	Power	94.2	90.6	88.7	94.6	91.8	81.2	76.1	70.1	95.2
	Pressure (@10m)	61.3	57.7	55.9	61.8	59.0	48.3	43.3	37.3	62.4
DCF044DR-10BSS0	Power	96.0	92.8	90.8	94.4	91.1	82.6	77.6	71.7	95.1
	Pressure (@10m)	63.2	60.0	58.0	61.6	58.3	49.8	44.7	38.9	62.2

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.

Sound Data
DeltaChill Free Cool EC Fans Extra Quiet

Model	Sound	63 Hz dB	125 Hz dB	250 Hz dB	500 Hz dB	1000 Hz dB	2000 Hz dB	4000 Hz dB	8000 Hz dB	Total dBA
DCF014SX-04AL00	Power	89.2	73.8	72.2	78.6	79.9	66.6	67.0	58.7	81.8
	Pressure (@10m)	57.1	41.7	40.1	46.5	47.8	34.5	34.9	26.6	49.7
DCF017SX-04AM00	Power	89.0	73.9	74.1	81.0	83.9	66.3	65.4	57.1	85.1
	Pressure (@10m)	56.9	41.8	42.1	48.9	51.8	34.3	33.3	25.0	53.0
DCF021SX-06BS00	Power	91.0	75.6	73.9	80.4	81.7	68.3	68.8	60.5	83.6
	Pressure (@10m)	58.6	43.2	41.6	48.0	49.3	36.0	36.4	28.1	51.2
DCF025SX-06BT00	Power	90.7	75.6	75.9	82.8	85.6	68.1	67.2	58.8	86.8
	Pressure (@10m)	58.4	43.3	43.6	50.4	53.3	35.8	34.8	26.5	54.5
DCF013DX-04ACD0	Power	89.1	73.8	72.3	77.2	78.9	67.8	68.5	60.2	81.0
	Pressure (@10m)	57.0	41.7	40.2	45.1	46.8	35.7	36.5	28.1	48.9
DCF014DX-04ADD0	Power	89.2	73.8	72.2	78.6	79.9	66.6	67.0	58.7	81.8
	Pressure (@10m)	57.1	41.7	40.1	46.5	47.8	34.5	34.9	26.6	49.7
DCF015DX-04ADF0	Power	89.1	73.8	73.3	80.0	82.3	66.5	66.3	58.0	83.8
	Pressure (@10m)	57.0	41.7	41.2	47.9	50.2	34.4	34.2	25.9	51.7
DCF016DX-04AJJ0	Power	88.8	73.8	73.0	79.2	80.0	67.4	67.1	57.6	82.1
	Pressure (@10m)	56.7	41.7	41.0	47.1	48.0	35.3	35.0	25.6	50.0
DCF018DX-04BJK0	Power	88.9	73.8	73.0	78.5	80.1	69.6	70.7	62.0	82.3
	Pressure (@10m)	56.9	41.8	40.9	46.4	48.0	37.6	38.6	29.9	50.2
DCF020DX-06BFK0	Power	90.7	75.6	74.9	79.9	82.5	69.9	70.4	62.0	84.2
	Pressure (@10m)	58.3	43.2	42.5	47.5	50.2	37.5	38.1	29.7	51.8
DCF023DX-06BKK0	Power	90.7	75.6	74.4	77.9	80.4	71.5	72.6	64.2	82.8
	Pressure (@10m)	58.4	43.3	42.1	45.6	48.0	39.1	40.3	31.8	50.4
DCF026DX-08BKL0	Power	92.1	76.8	75.3	80.2	81.9	70.8	71.6	63.2	84.0
	Pressure (@10m)	59.5	44.2	42.7	47.6	49.3	38.2	39.0	30.6	51.4
DCF029DX-08BLL0	Power	92.2	76.8	75.2	81.6	82.9	69.6	70.0	61.7	84.8
	Pressure (@10m)	59.6	44.2	42.6	49.0	50.3	37.0	37.4	29.1	52.2
DCF032DX-08BLM0	Power	92.1	76.8	76.3	83.0	85.3	69.5	69.3	61.0	86.8
	Pressure (@10m)	59.5	44.2	43.7	50.4	52.7	36.9	36.7	28.4	54.2
DCF035DX-08BMM0	Power	92.0	76.9	77.2	84.0	86.9	69.4	68.4	60.1	88.1
	Pressure (@10m)	59.4	44.3	44.6	51.4	54.3	36.8	35.8	27.5	55.5
DCF039DX-10BMS0	Power	93.1	77.8	77.1	83.7	85.9	70.5	70.4	62.1	87.4
	Pressure (@10m)	60.2	45.0	44.2	50.9	53.1	37.6	37.6	29.3	54.6
DCF044DX-12BSS0	Power	94.0	78.6	76.9	83.4	84.7	71.3	71.8	63.5	86.6
	Pressure (@10m)	60.9	45.5	43.9	50.3	51.6	38.3	38.7	30.4	53.5

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.

Sound Data
DeltaChill Free Cool, EC Fans High Airflow.

Model	Sound	63 Hz dB	125 Hz dB	250 Hz dB	500 Hz dB	1000 Hz dB	2000 Hz dB	4000 Hz dB	8000 Hz dB	Total dBA
DCF014SR-04AL00	Power	85.8	82.0	83.2	89.5	85.6	76.4	72.0	66.0	89.6
	Pressure (@10m)	53.7	49.9	51.1	57.4	53.5	44.3	39.9	34.0	57.5
DCF017SR-04AM00	Power	87.3	85.8	87.4	91.8	89.6	77.1	71.6	65.1	92.6
	Pressure (@10m)	55.2	53.7	55.3	59.7	57.5	45.0	39.6	33.0	60.6
DCF021SR-04BS00	Power	99.6	94.4	94.3	91.6	88.4	82.2	75.6	69.3	93.3
	Pressure (@10m)	67.5	62.3	62.2	59.6	56.3	50.1	43.5	37.2	61.2
DCF025SR-06BT00	Power	89.1	87.6	89.2	93.5	91.4	78.9	73.4	66.9	94.4
	Pressure (@10m)	56.7	55.2	56.9	61.2	59.0	46.5	41.1	34.5	62.1
DCF013DR-04ACD0	Power	85.8	80.2	81.2	87.8	84.4	78.2	73.3	67.4	88.5
	Pressure (@10m)	53.7	48.2	49.1	55.7	52.3	46.1	41.2	35.3	56.4
DCF014DR-04ADD0	Power	85.8	81.9	83.1	89.5	85.6	76.4	72.0	66.0	89.6
	Pressure (@10m)	53.7	49.8	51.0	57.4	53.5	44.3	39.9	33.9	57.5
DCF015DR-04ADF0	Power	86.6	84.3	85.9	90.8	88.1	76.8	71.8	65.6	91.4
	Pressure (@10m)	54.6	52.2	53.8	58.7	56.0	44.7	39.7	33.5	59.3
DCF016DR-04AJJ0	Power	86.7	85.3	86.9	88.1	86.1	78.2	74.4	65.5	89.7
	Pressure (@10m)	54.6	53.2	54.8	56.0	54.1	46.1	42.3	33.4	57.6
DCF018DR-04BJK0	Power	98.2	92.8	92.5	88.5	86.9	82.7	76.9	70.2	91.6
	Pressure (@10m)	66.1	60.8	60.4	56.4	54.8	50.7	44.8	38.1	59.5
DCF020DR-06BFK0	Power	87.4	82.9	84.1	90.2	88.0	80.5	75.3	69.3	91.4
	Pressure (@10m)	55.1	50.5	51.7	57.9	55.7	48.1	43.0	37.0	59.1
DCF023DR-06BKK0	Power	87.4	84.9	86.3	88.0	86.3	82.7	77.6	71.7	90.5
	Pressure (@10m)	55.0	52.5	53.9	55.7	53.9	50.4	45.2	39.3	58.2
DCF026DR-06BKL0	Power	92.1	89.3	90.6	91.0	88.1	82.1	76.9	70.9	92.3
	Pressure (@10m)	59.8	56.9	58.2	58.6	55.7	49.8	44.5	38.6	60.0
DCF029DR-06BLL0	Power	94.3	91.4	92.6	92.7	89.3	81.4	76.0	70.0	93.6
	Pressure (@10m)	62.0	59.0	60.3	60.4	57.0	49.1	43.6	37.6	61.3
DCF032DR-08BLM0	Power	89.5	87.2	88.7	93.8	91.1	79.8	74.8	68.6	94.4
	Pressure (@10m)	56.9	54.6	56.1	61.2	58.5	47.2	42.2	36.0	61.8
DCF035DR-08BMM0	Power	90.2	88.6	90.3	94.8	92.6	80.1	74.6	68.1	95.6
	Pressure (@10m)	57.6	56.0	57.7	62.2	60.0	47.5	42.0	35.5	63.0
DCF039DR-10BMS0	Power	91.1	88.4	89.9	94.5	91.7	80.8	75.9	69.7	95.1
	Pressure (@10m)	58.2	55.6	57.1	61.7	58.8	48.0	43.1	36.9	62.3
DCF044DR-10BSS0	Power	92.4	90.4	92.0	94.4	90.8	82.2	77.3	71.3	94.9
	Pressure (@10m)	59.5	57.6	59.2	61.5	58.0	49.3	44.4	38.5	62.1

1 dB(A) is the overall sound level, measured on the A scale.
2 All sound data measured at nominal conditions: Water in/out 15/10°C at 35°C ambient.
3 Based on standard unit, for units fitted with optional pump packages please contact Airedale.

Hydronic Data

Waterside Pressure Drops

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

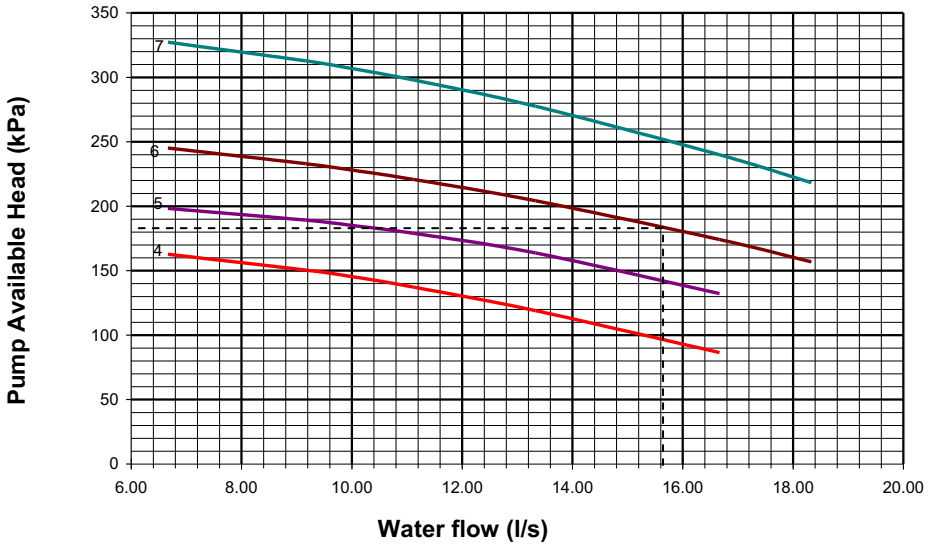
Use the formula below to calculate the External Head Available:

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***, on page 24.

NOTE To determine a flow rate from the available external head; adjust the flow until the unit pressure matches the total head available (from the pump curve minus the pressure drop of the unit). Checks can be made on the evaporator pressure drop to ensure correct operation.

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						
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

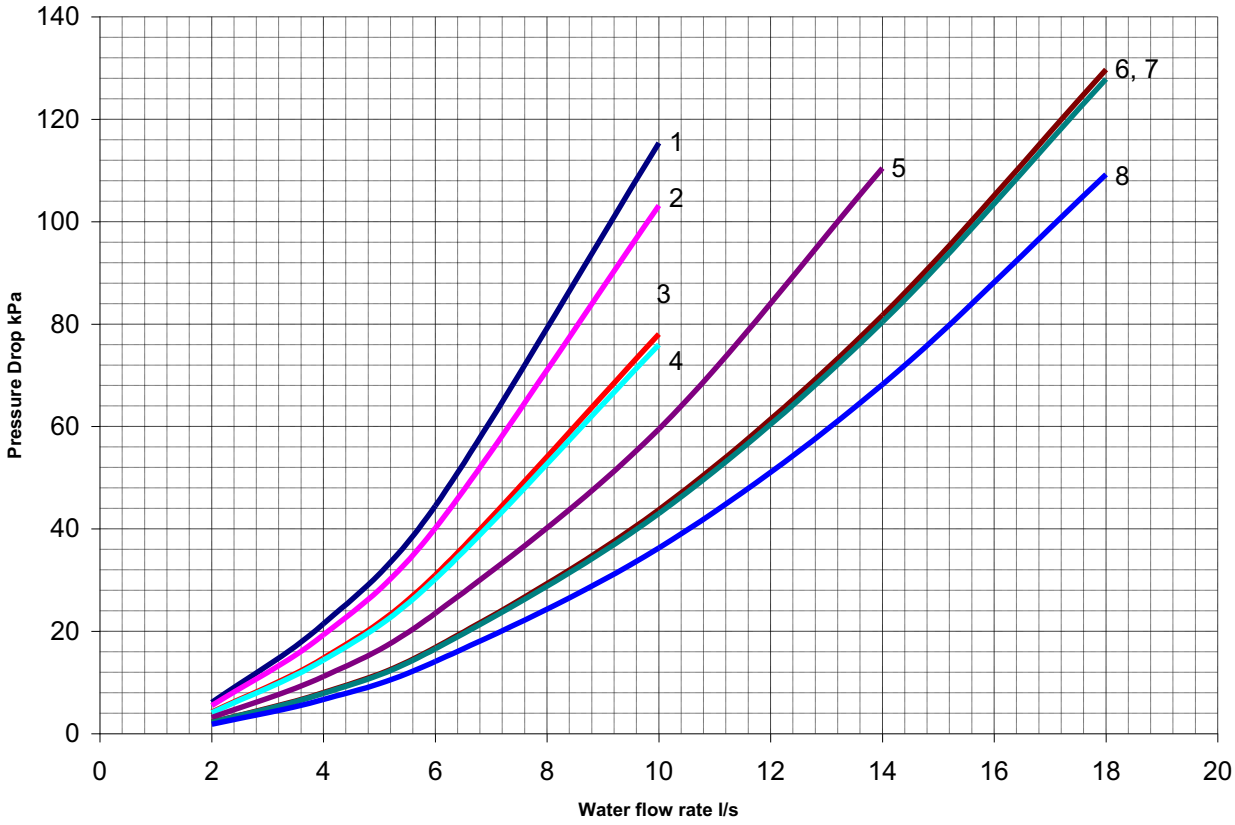
Waterside pressure drops based upon a standard configured unit. For pressure drop information with different configurations contact Airedale.

Water Pressure Drop - DCF

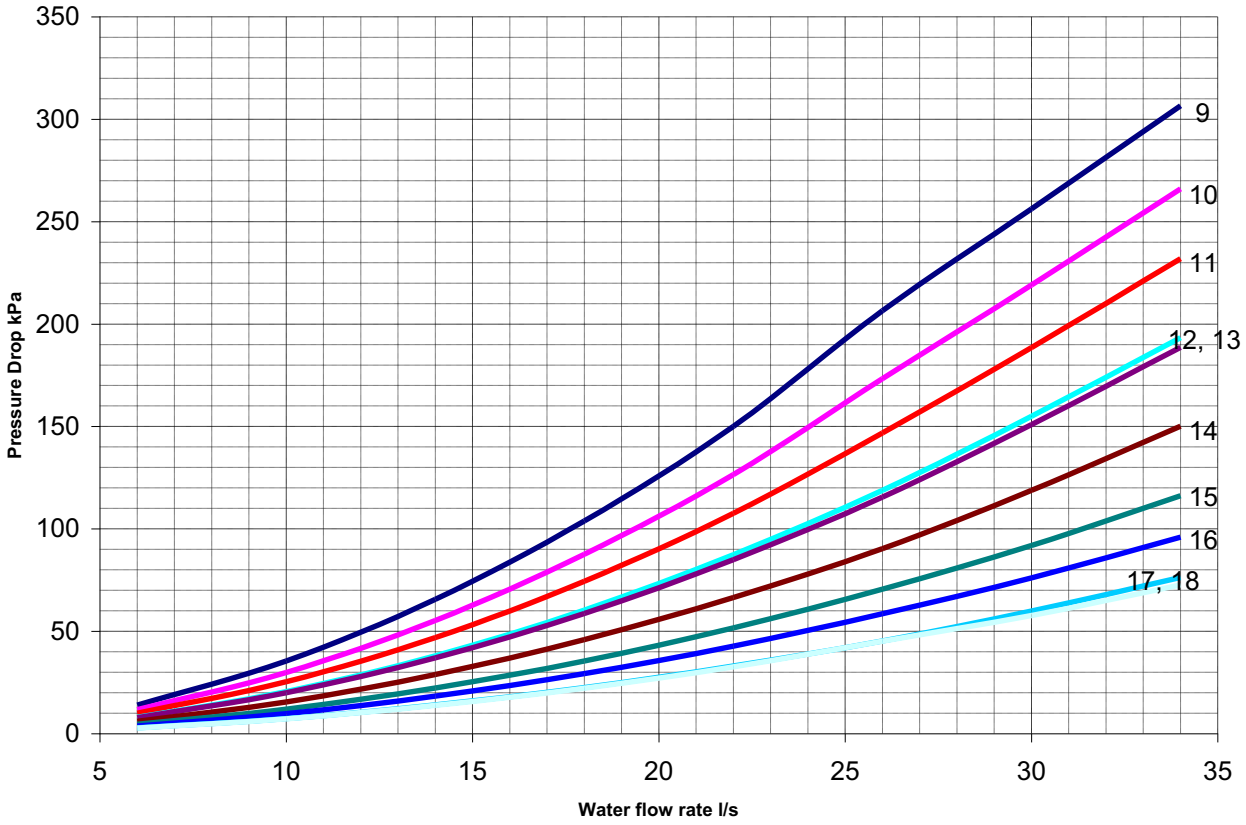
Unit	Waterflow(l/s)												
	4	6	8	10	12	14	16	18	20	22	24	26	28
	Pressure Drop (kPa)												
DCF014SR-04AL00	30.9	61.7	103.0	154.5	216.1	287.7	369.1						
DCF017SR-04AM00	28.0	55.7	93.0	139.7	195.7	260.8	335.1						
DCF021SR-04BS00	21.5	44.2	73.3	108.9	150.8	198.9	253.3						
DCF025SR-06BT00	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 including water filter. For pressure drop information with different configurations contact Airedale.

Evaporator Pressure Drops



Evaporator Pressure Drop Continued



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

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

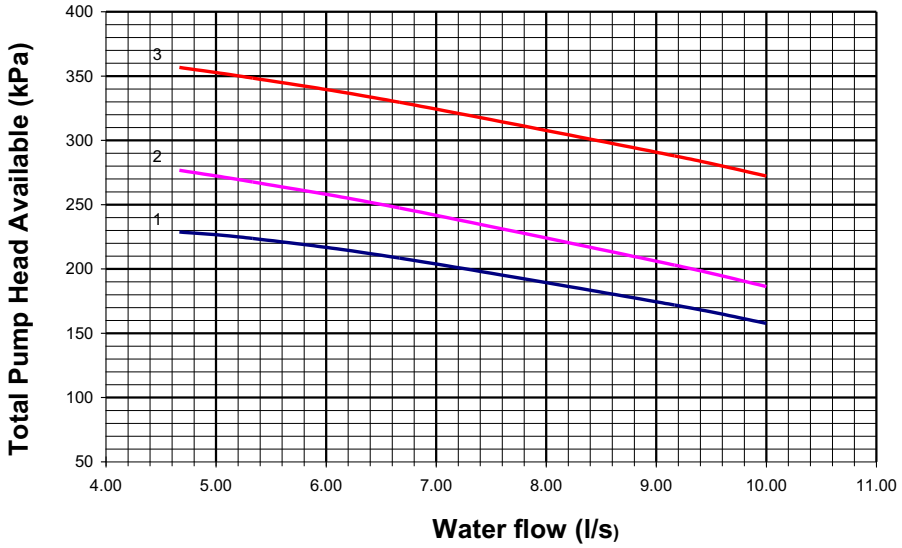
	Pump Curve (refer to Graphs)			
Air-Cooled	Standard		External Inverter	
	Standard Head	High Head	Standard Head	High Head
DCC011SR-04AK00	4	1	11	12
DCC014SR-04AL00	4	1	11	12
DCC017SR-04AM00	4	2	11	12
DCC021SR-04BS00	4	2	11	12
DCC023SR-04BT00	5	6	15	13
DCC024SR-06BT00	5	6	20	13
DCC011DR-04ACC0	4	1	11	12
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
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

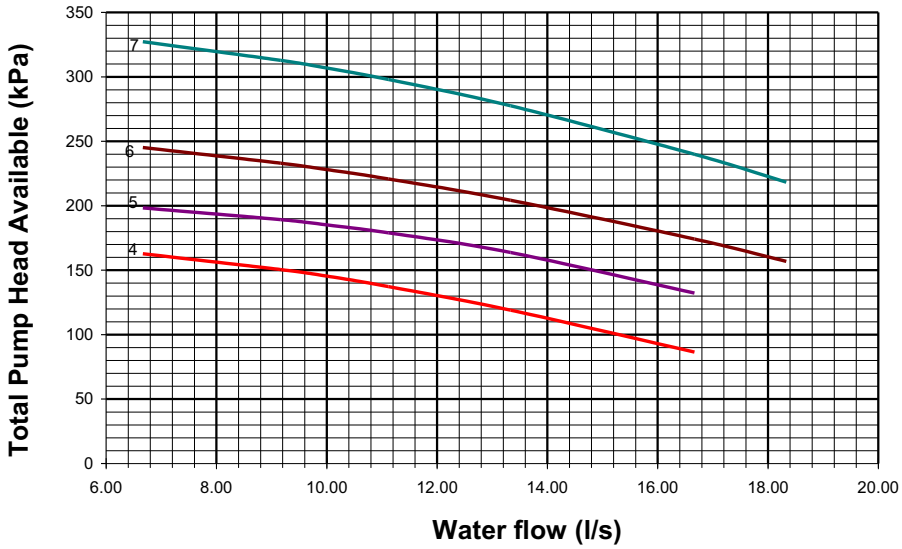
Pump Packages
DeltaChill Freecool Models

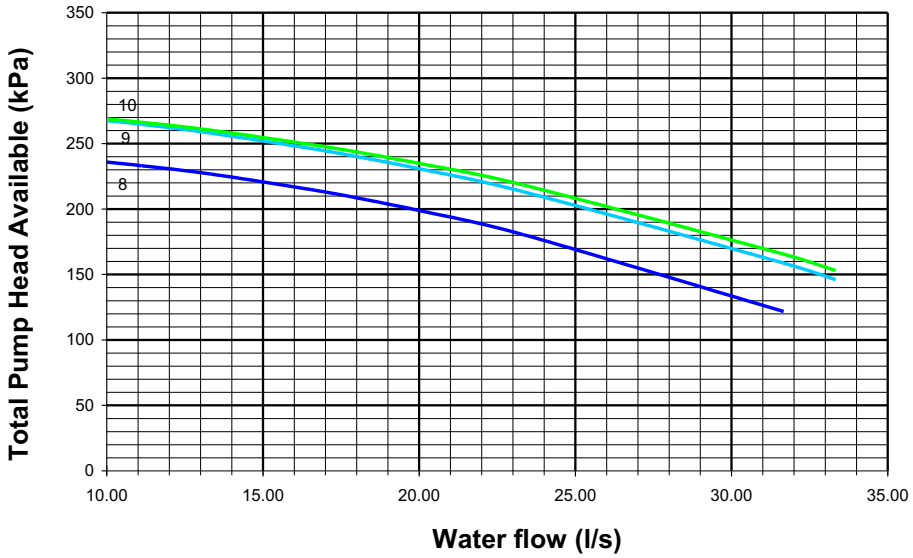
	Pump Curve (refer to graphs)			
	Standard		External Inverter	
	Standard Head	High Head	Standard Head	High Head
DCF014SR-04AL00	2	3	12	13
DCF017SR-04AM00	6	7	12	13
DCF021SR-04BS00	6	7	13	14
DCF025SR-06BT00	8	7	16	17
DCF013DR-04ACD0	2	3	12	13
DCF014DR-04ADD0	2	3	12	13
DCF015DR-04ADF0	6	7	12	13
DCF016DR-04AJJ0	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

Single Head Pump or Run/Standby

Standard AC Pumps

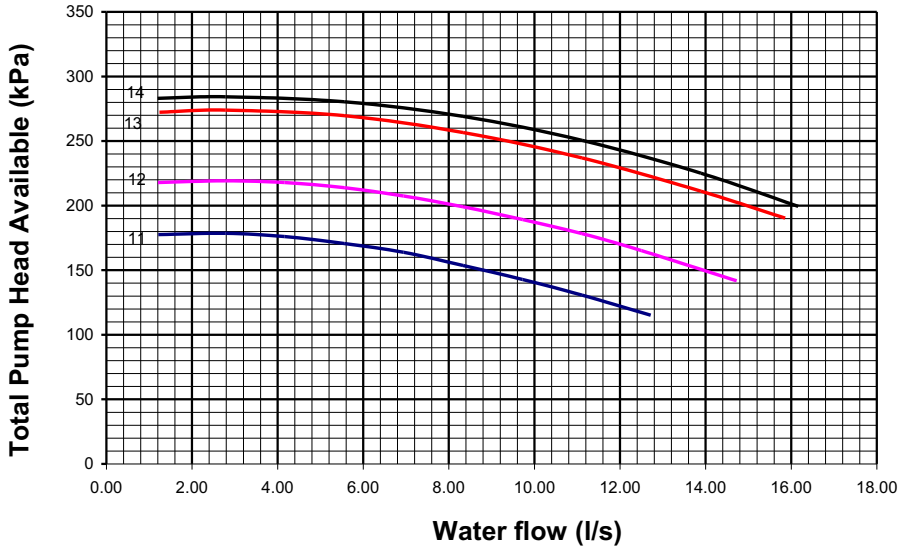


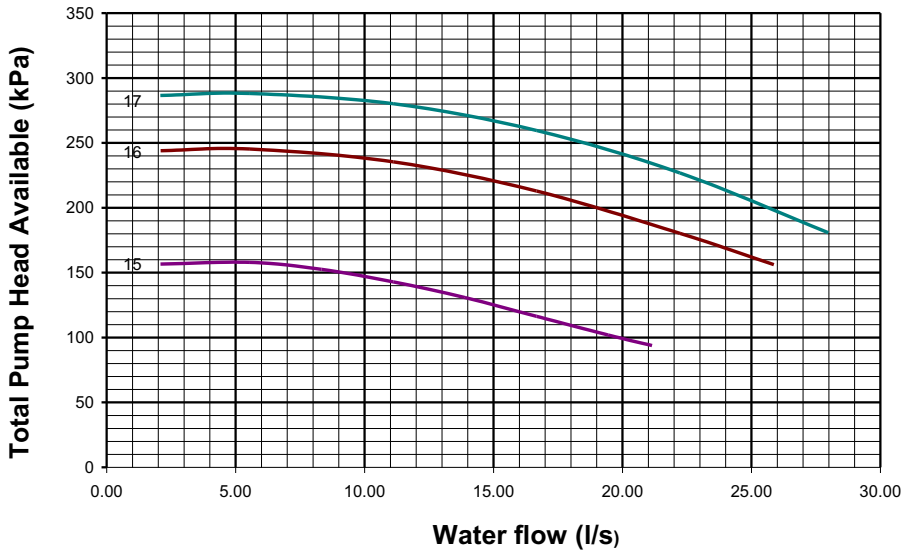


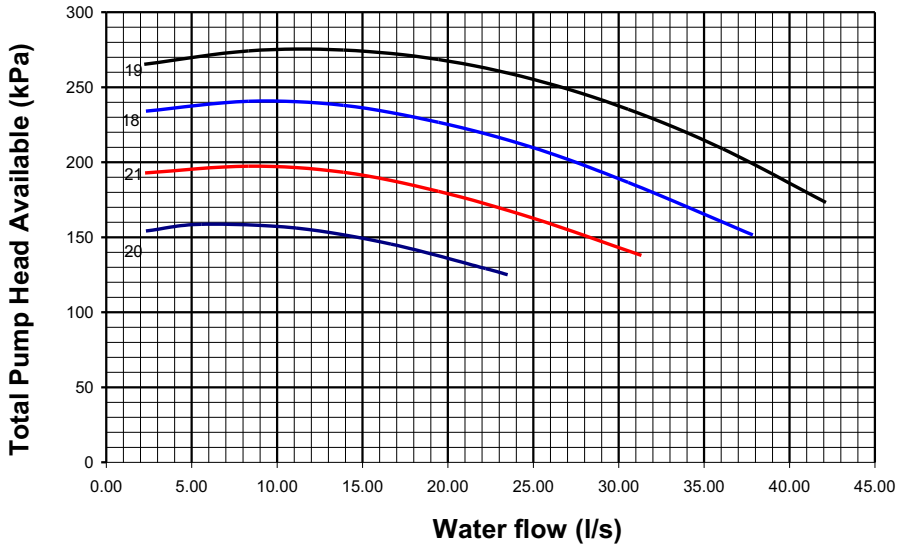


Data based on 20% Ethylene Glycol Solution

Inverter Driven Pumps





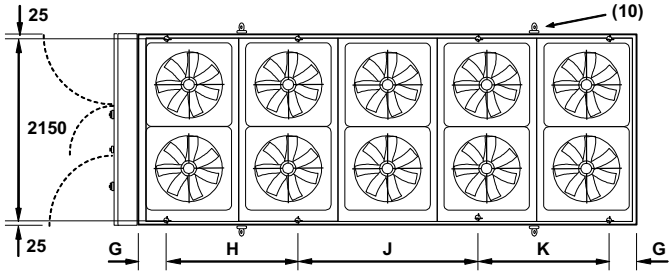


Data based on 20% Ethylene Glycol Solution. Inverters at 50Hz.

Installation Data

Dimensions

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



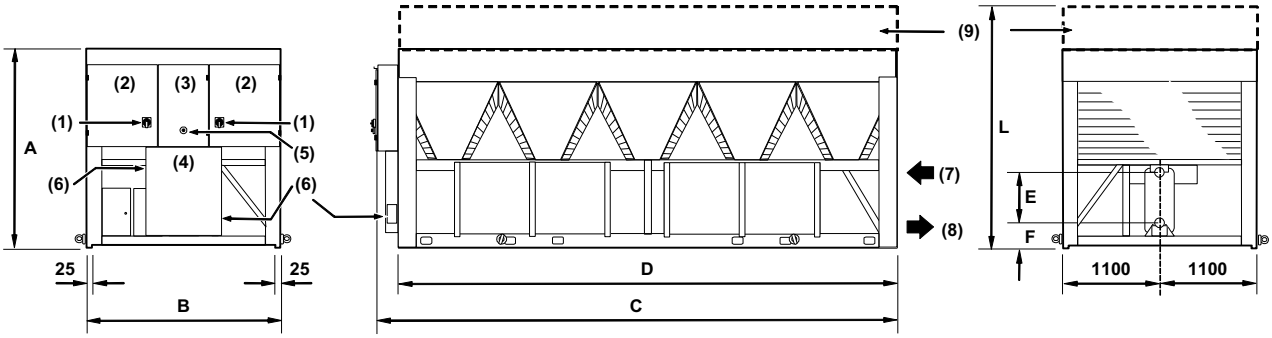
Grooved Water Connections:

Refer to mechanical Data Tables

Evaporator Water Drain/Bleed:
1/2”

20mm Ø Mounting Holes:

4 - 6 Fan Unit	x 4
8 Fan Unit	x 6
10 - 12 Fan Unit	x 8

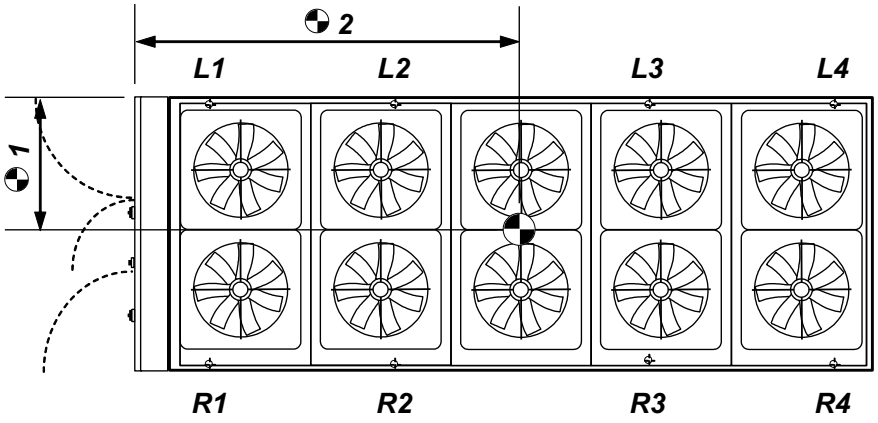


		A	B	C	D	E	F	G	H	J	K	l*
4 Fan	mm	2405	2200	2554	2270	550	196	310	1650	N/A	N/A	2905
6 Fan	mm	2415	2200	3690	3407	550	206	712	1982	N/A	N/A	2915
8 Fan	mm	2415	2200	4820	4539	550	206	416	1853	1853	N/A	2915
10 Fan	mm	2415	2200	5956	5672	550	206	311	1500	2050	1500	2915
12 Fan	mm	2415	2200	7090	6805	550	206	595	1782	2050	1782	2915

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

Installation Data

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

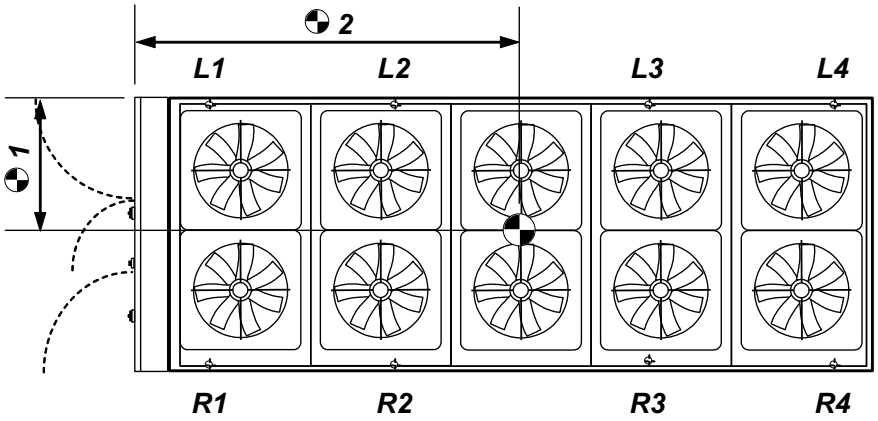


= C of G

	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

Installation Data

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

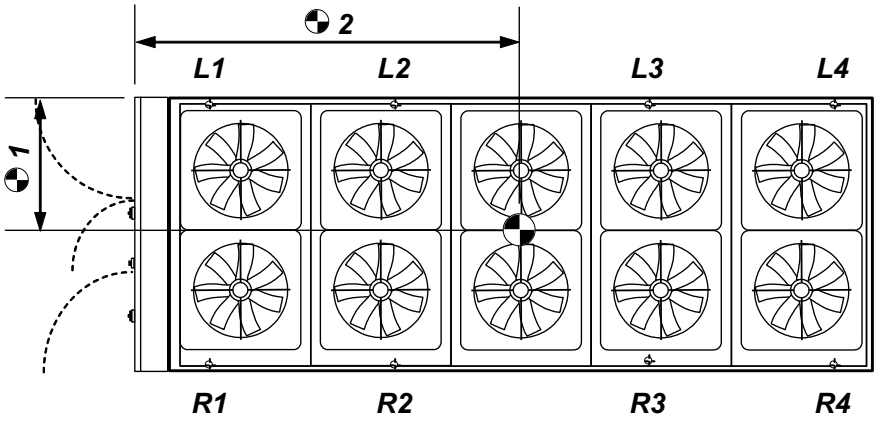


	L1	L2	L3	L4	R1	R2	R3	R4	C of G 1	C of G 2
	P1	P3	P5	P7	P2	P4	P6	P8	mm	mm
DCC011SX-04AK00	375	330			500	435			1250	1080
DCC014SX-04AL00	375	350			530	495			1285	1110
DCC017SX-04AM00	380	360			540	510			1290	1110
DCC021SX-06BS00	495	530			715	765			1295	1740
DCC023SX-04BT00	445	360			705	570			1340	1050
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

Weights, Point Loadings & Centre of Gravity (C of G) DeltaChill Free Cool



= 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	M24	M30	M30	M30	M36

IMPORTANT

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

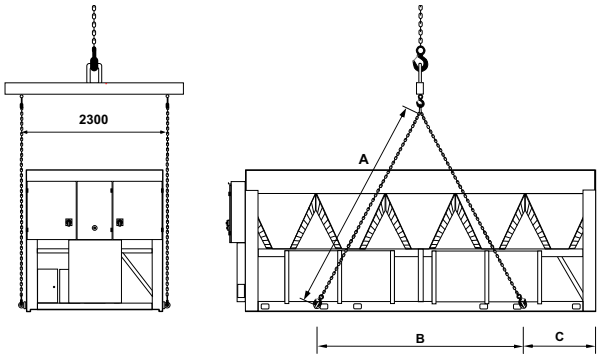
Only use lifting points provided.

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 Data

Positioning

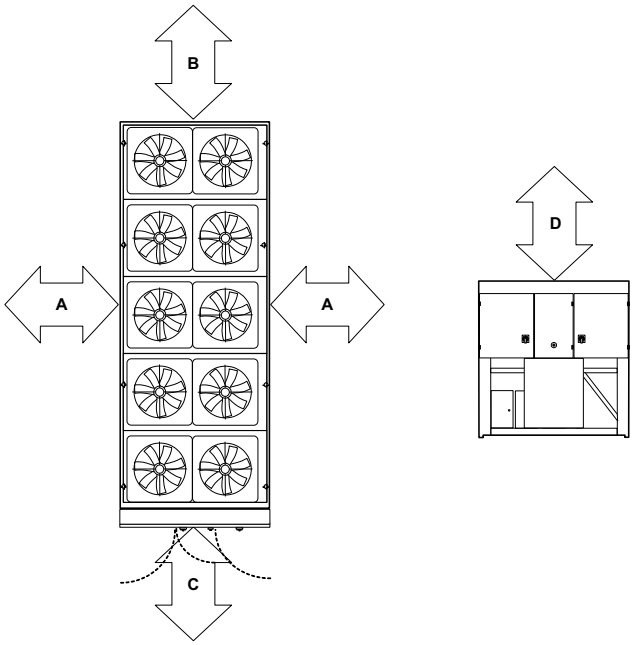
The installation position should be selected with the following points in mind:

- 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

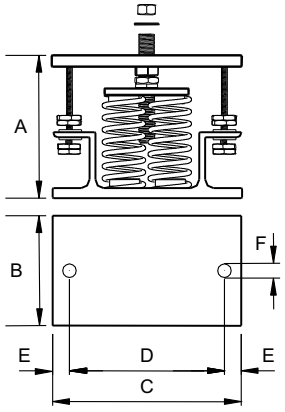
Installation Data

Anti Vibration Mounting (Optional)

Spring Type

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

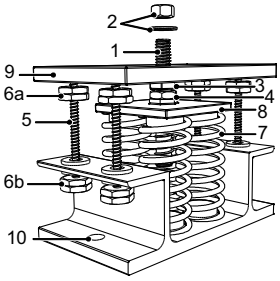
Dimensions



			A(1)	B	C	D	E	FØ
DCC22x Units	(3)	mm	180	130	225	186	20	16

(1) Unloaded dimension

Components



1 Locating Screw
2 Retaining Nut & Washer
3 Levelling Screw
4 Levelling Lock Nut
5 Retaining Studs
6a Upper Retaining Nuts
6b Lower Retaining Nuts
7 Spring assembly
8 Pressure Plate
9 Top Plate
10 Bolting-down holes

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

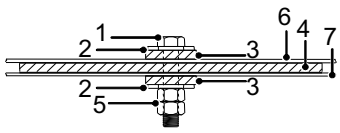
CAUTION **Mountings must be adjusted incrementally in turn. Do not fully adjust 1 mount at a time as this may overload and damage springs.**

7 When all mounts are level, lock each into place using the levelling lock nut (4).
8 Lock all retaining nuts (6a and 6b) to the extreme ends of the retaining studs (5).

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

Pad Type

Components/Installation



1 M16 Bolt (Not Supplied)
2 Washer (Not Supplied)
3 Fixing Pad 506-063
4 A V Pad 506-062
5 2 x M16 Nut (Not Supplied)
6 Unit Base
7 Unit Mounting Plinth

Installation Data

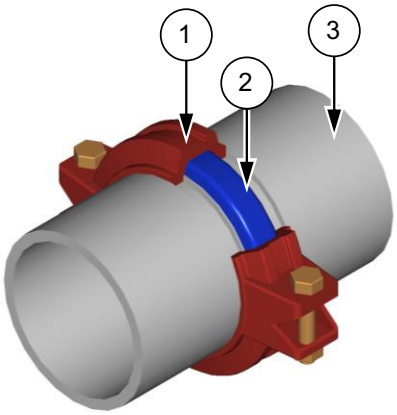
Water System

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

- National and Local Water supply company standards
- The manufacturer's instructions are followed when fitting ancillary components
- The system liquid is treated to prevent corrosion and algae forming
- In ambient of 0°C and below, where static water can be expected, or when water supply temperatures of +5°C or below is required, the necessary concentration of Glycol or use of an electrical trace heater must be included
- The schematic is referred to as a guide to ancillary recommendations

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

Grooved & Clamped Type Connection



1 Clamp
2 Gasket
3 Counterpipe

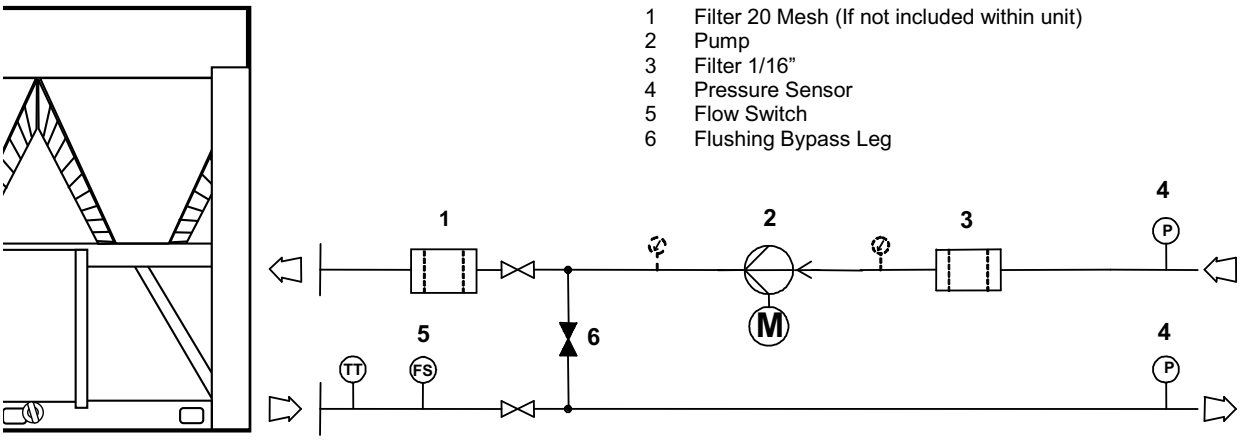
Standard Recommended Installation

General

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

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

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



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

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

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

CAUTION **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

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.

CAUTION

Failure to install both safety devices will invalidate the chiller warranty.

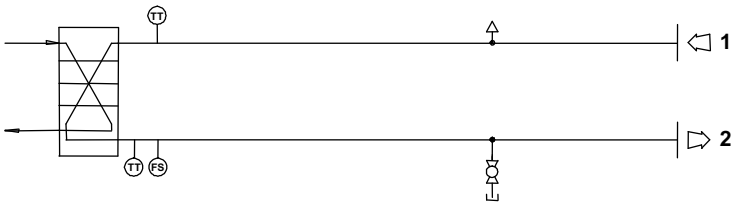
Do not rely solely on the BMS to protect the chiller against low flow conditions.

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

Flow Schemes

Key: 1 Water In
2 Water Out

Basic Supplied Water Schematic
(Includes Flow Proving Device)

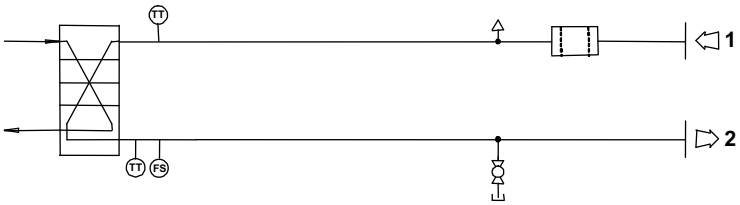


Installation Data

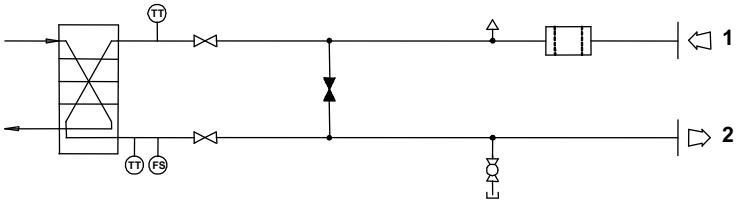
Optional Flow Schemes

Key: 1 Water In
2 Water Out

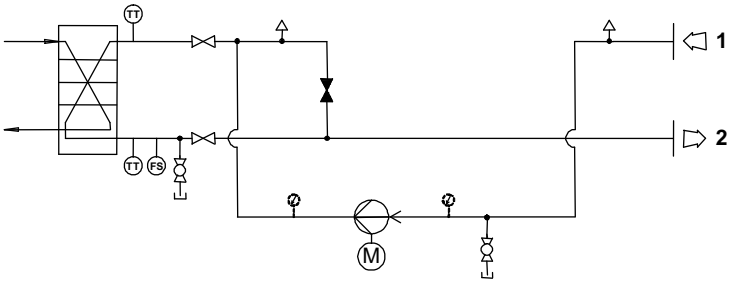
Filter Only Scheme - Comprises:
Standard Circuit plus:
Optional Extras:
- 20 Mesh Water Filter



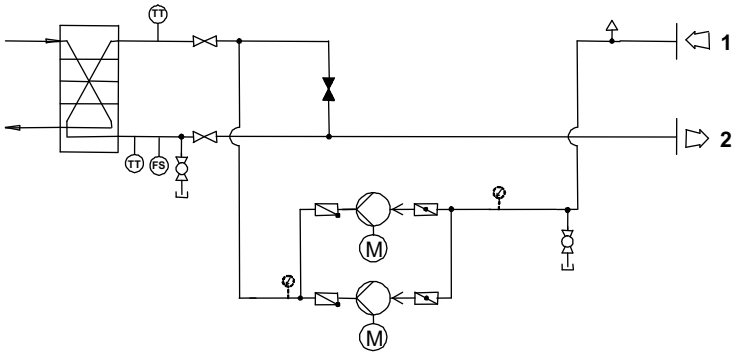
Filter - Flushing Bypass Scheme - Comprises:
Standard Circuit plus:
Optional Extras:
- 20 Mesh Water Filter
- Flushing Bypass Circuit



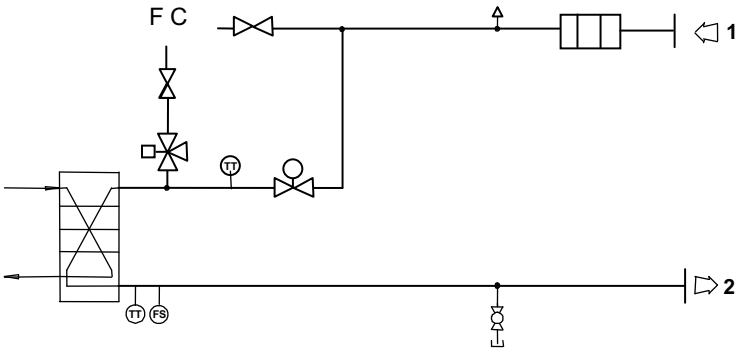
Single Head Pump Scheme - Comprises:
Standard Circuit plus:
Optional Extras:
- 20 Mesh Water Filter (supplied loose)
- Flushing Bypass Circuit
- Single Head Pump



Single Head Run/Standby Pump Scheme - Comprises:
Standard Circuit plus:
Optional Extras:
- 20 Mesh Water Filter (supplied loose)
- Flushing Bypass Circuit
- Single Head Run/Standby Pump



Standard Free Cool Circuit Incorporating
- Double Regulating Valve
- Mixing Valve
- 20 Mesh Water Filter (supplied loose)



Installation Data

Electrical

IMPORTANT		**Please refer to the electrical wiring diagrams provided for installation.** **ALL work MUST be carried out by technically trained competent personnel.** **The equipment contains live electrical and moving parts, ISOLATE prior to maintenance or repair work.** **The unit isolators DO NOT isolate the incoming mains supply, but isolate the individual electrical panels. Isolate REMOTELY the mains incoming supply to the BUSBAR chamber prior to maintenance or repair work.**

General

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

CAUTION 

The Emergency Stop MUST NOT be used to stop the Chiller other than in the event of an emergency.

A fused and isolated electrical supply of the appropriate phase, frequency and voltage should be installed.

Wires should be capable of carrying the maximum load current under non-fault conditions at the stipulated voltage.

A separately fused, locally isolated, permanent single phase and neutral supply MUST BE FITTED for the compressor oil heater, evaporator trace heating and control circuits, FAILURE to do so will INVALIDATE WARRANTY.

To reduce down time, if possible support the above supply with a UPS.

Ensure correct phase rotation.

Installation Data

Interconnecting Wiring

DCC22 / DCF22		L1	○	←		Mains incoming supply 400V/3PH/50Hz
		L2	○	←		
		L3	○	←		
		PE	○	←		
		L4	○	←		Separate Permanent Supply 230V/1PH/50Hz
		N1	○	←		
		PE	○	←		
		L4	○	→		External Trace Heating Connections
		N1	○	→		240V/500W max
		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	○	←		Volt Free Common Alarm
		574	○	→	Non-Critical Alarm	Volt Free Alarm N/O
		575	○	→		Volt Free Alarm N/C
		576	○	←		Volt Free Common Alarm
		577	○	→	Critical Alarm	Volt Free Alarm N/O
		578	○	→		Volt Free Alarm N/C
		RX-/Tx-	○	↔		
		RX+/Tx+	○	↔	IN	AIRELan Network Connections In
		GND	○	↔		
		RX-/Tx-	○	↔		
		RX+/Tx+	○	↔	OUT	AIRELan Network Connections
		GND	○	↔		

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

A MODINE Company

Final pLAN Termination

Airedale APPLIED THERMAL INNOVATION

The equipment contains live electrical and moving parts, ISOLATE prior to maintenance or repair work.

CAUTION

ALL work MUST be carried out by technically trained competent personnel.

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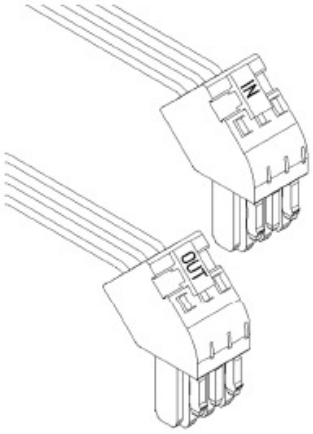
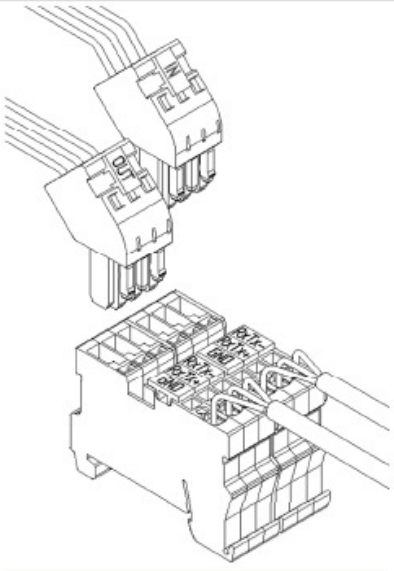
Website: www.airedale.com

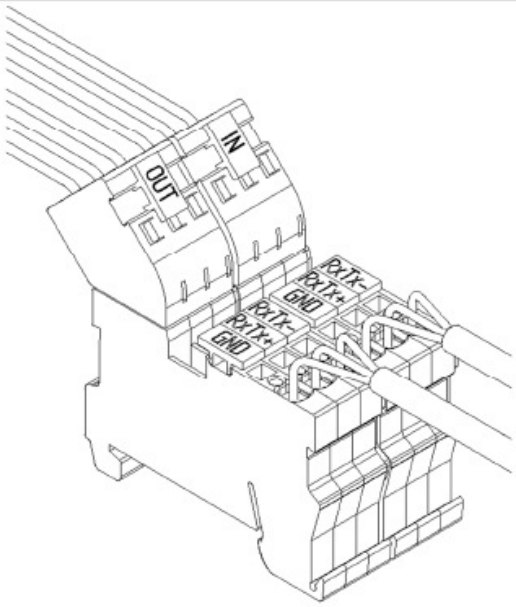
1. Disconnect power to the control circuit before wiring the pLAN connection.



2. Remove the plugs from the bag and wire the pLAN connections to them. Check the correct orientation of the connections against the terminal labels and wiring diagram. Ensure the other end of the pLAN cable is also correctly terminated.



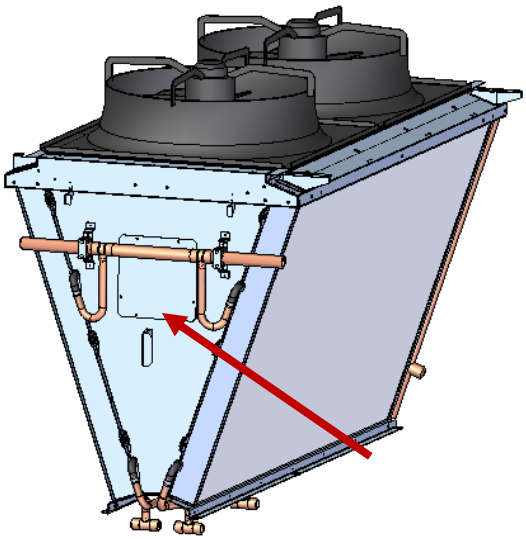
3. Check wiring to ensure no shorts or incorrect connections before connecting to the unit. Failure to do so may cause serious damage to electrical components.



4. Plug the pLAN connectors into the terminals. The control circuit power can then be reconnected.

Maintenance

A maintenance panel has also been provided on the DX pipework side of the DCF & DCC units.
The panel is secured using M6 bolts and has a strip of inseal to ensure air doesn't bypass the coils.



DeltaChill DX pipework side view of maintenance acess panel.

- Access is available through the "V" block arrangement and that care must be taken when using any water jets with a directional spray. A wide spray is recommended.

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