Airedale
APPLIED THERMAL INNOVATION

DeltaChill Air Cooled & Free Cool

Chiller
100 kW - 510 kW

R410A

Installation, Commissioning and Maintenance 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**

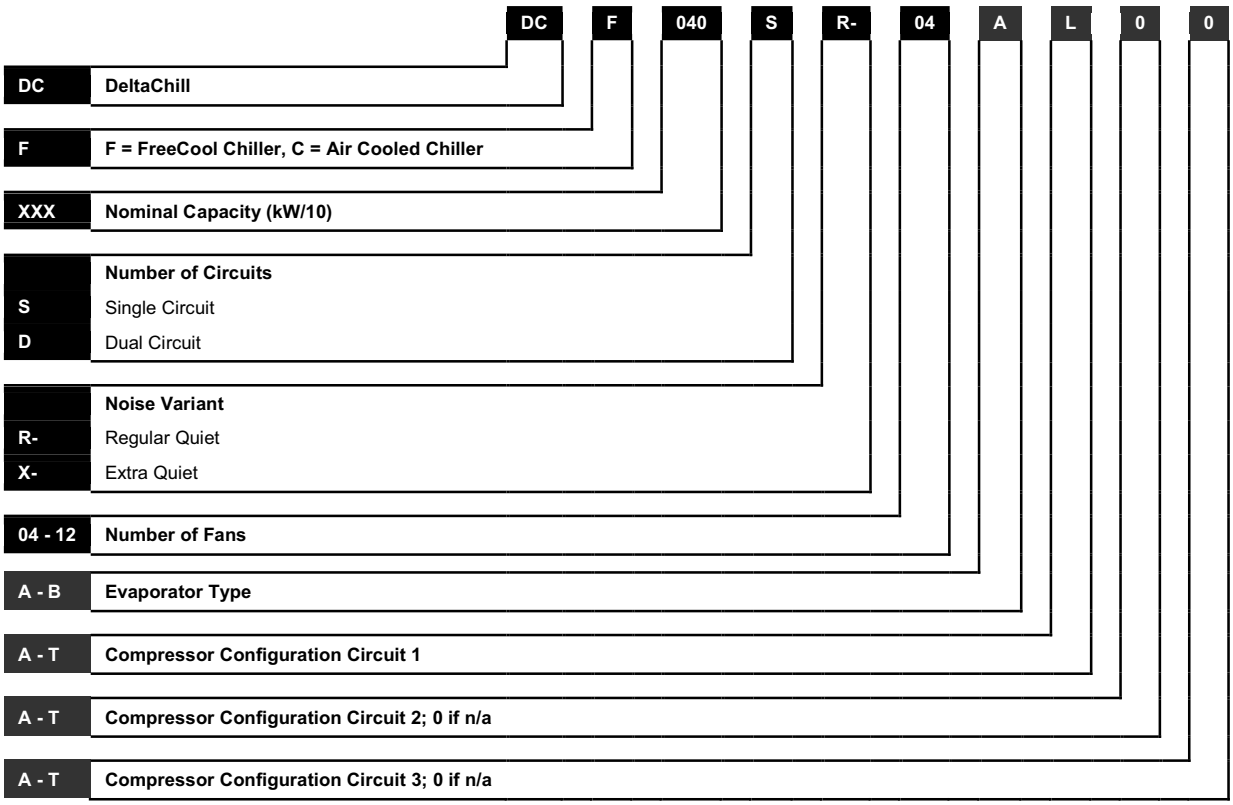
To comply with these directives appropriate national & harmonised standards have been applied. These are listed on the Declaration of Conformity, supplied with each product.

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

Operating Temperature (TS),	TS =	Min -20°C to Max 120°C *
Maximum Operating Pressure (PS)	PS =	High Side 26 Barg

*Based upon the maximum machine running temperatures.

General Description



Introduction

The Airedale range of DeltaChill Compact air cooled and Free Cooling liquid chillers covers the nominal capacity range 100 kW to 450 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.

Optimized 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

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** *Error! Reference source not found.*, Error! Bookmark not defined..

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.

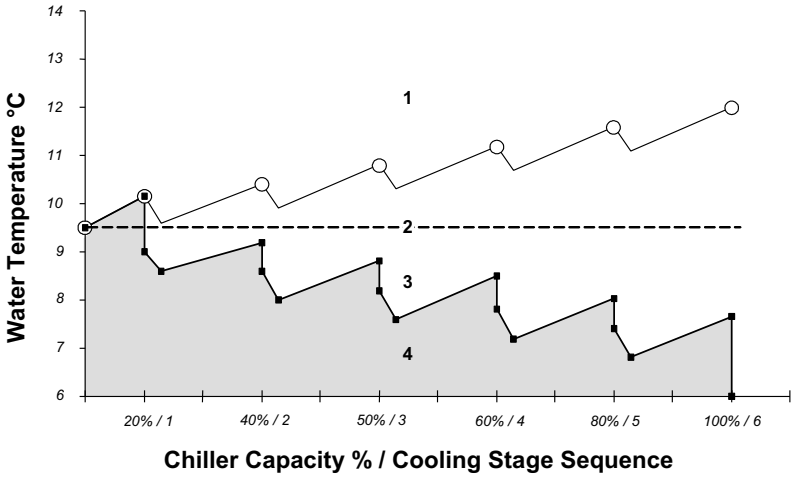
Selection of the best application control scheme can be made via a soft switch in the microprocessor during initial commissioning.

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.

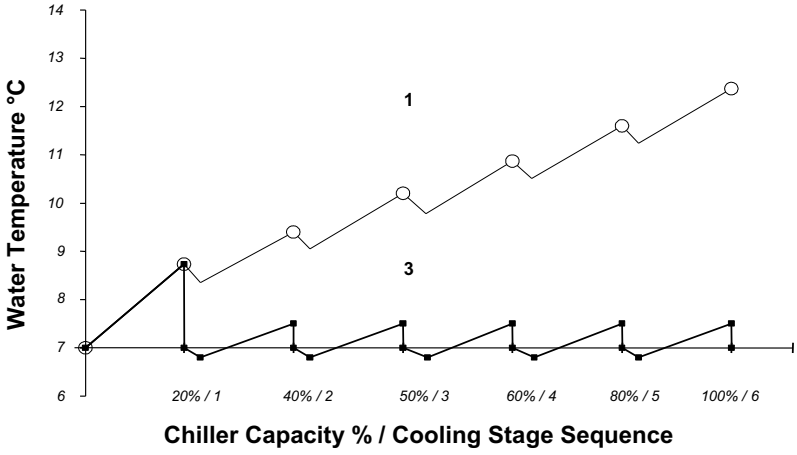
Examples based on Model DCC033DR-08BMH0 having 6 Stages of Cooling

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**

Freeze Prevention

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.

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

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 (1)		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-08BMH0 operating at 7/12, 35°C Ambient, 20% Ethylene Glycol, with AC condenser fans.**

		Catalogue Figure	Multiplier		Corrected Figure
Cooling kW	(refer to ***Performance Data – Capacity Data***)	326	x 0.97	20% Ethylene Glycol =	316.2 kW
Input kW	(refer to ***Performance Data – Capacity Data***)	105.6	x 0.98		103.5 kW
Flow l/s	(calculated $\frac{\text{(DX (Mechanical Cooling kW)}}{\Delta T \times 4.19}$)	15.56 l/s	x 1.02		15.87 l/s
Pressure Drop kPa	(refer to *Error! Reference source not found.*, **Error! Bookmark not defined.**)	**TBA kPa**	**x 1.20**		**TBA kPa**

DeltaChill

Cooling Performance AC Fans

Model	Vorlauftemperatur °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	Vorlauftemperatur °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	Vorlauftemperatur °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	Vorlauftemperatur °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	Vorlauftemperatur °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	Vorlauftemperatur °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	Vorlauftemperatur °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	Vorlauftemperatur °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	Vorlauftemperatur °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	Vorlauftemperatur °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	Vorlauftemperatur °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	Vorlauftemperatur °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	Vorlauftemperatur °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	Vorlauftemperatur °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	Vorlauftemperatur °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	Vorlauftemperatur °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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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. All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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. All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume. For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved

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.

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

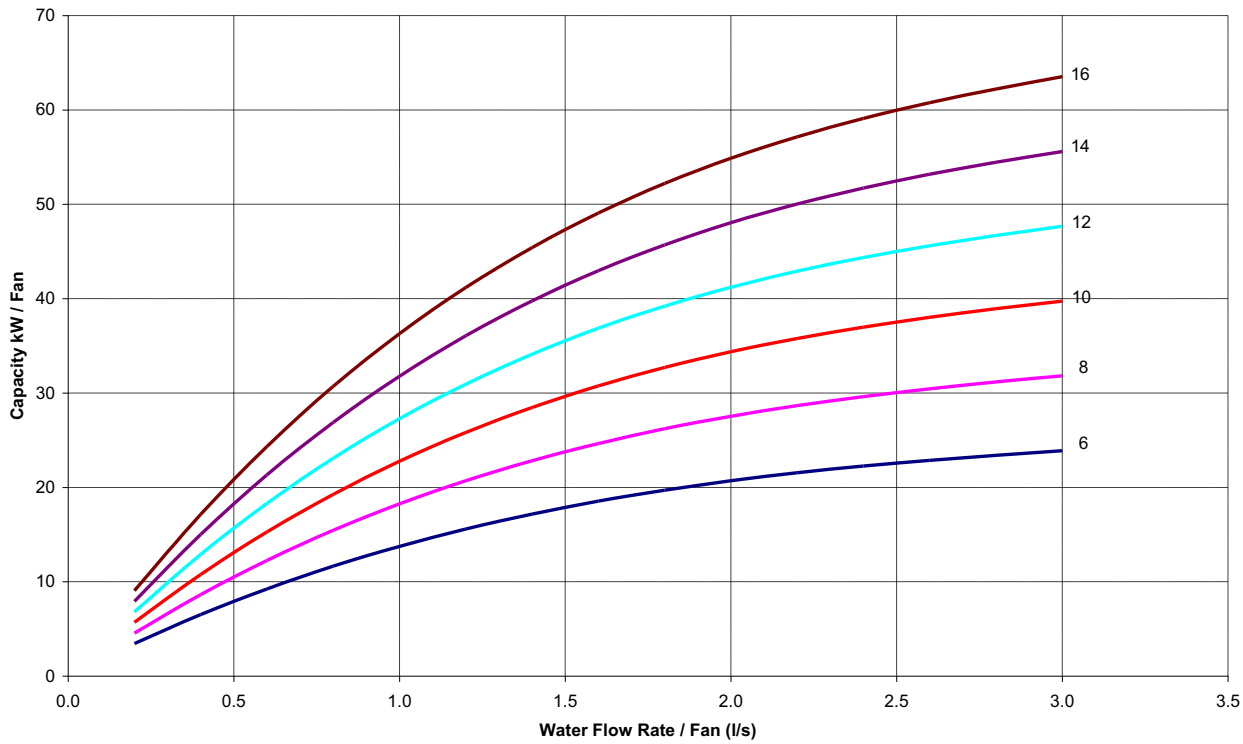
Return water temperature 15°C
Temperature difference from ambient to return water temperature 10°C
Therefore ambient 5°C

DCF014SR-04AL00 chiller having 4 fans equates to

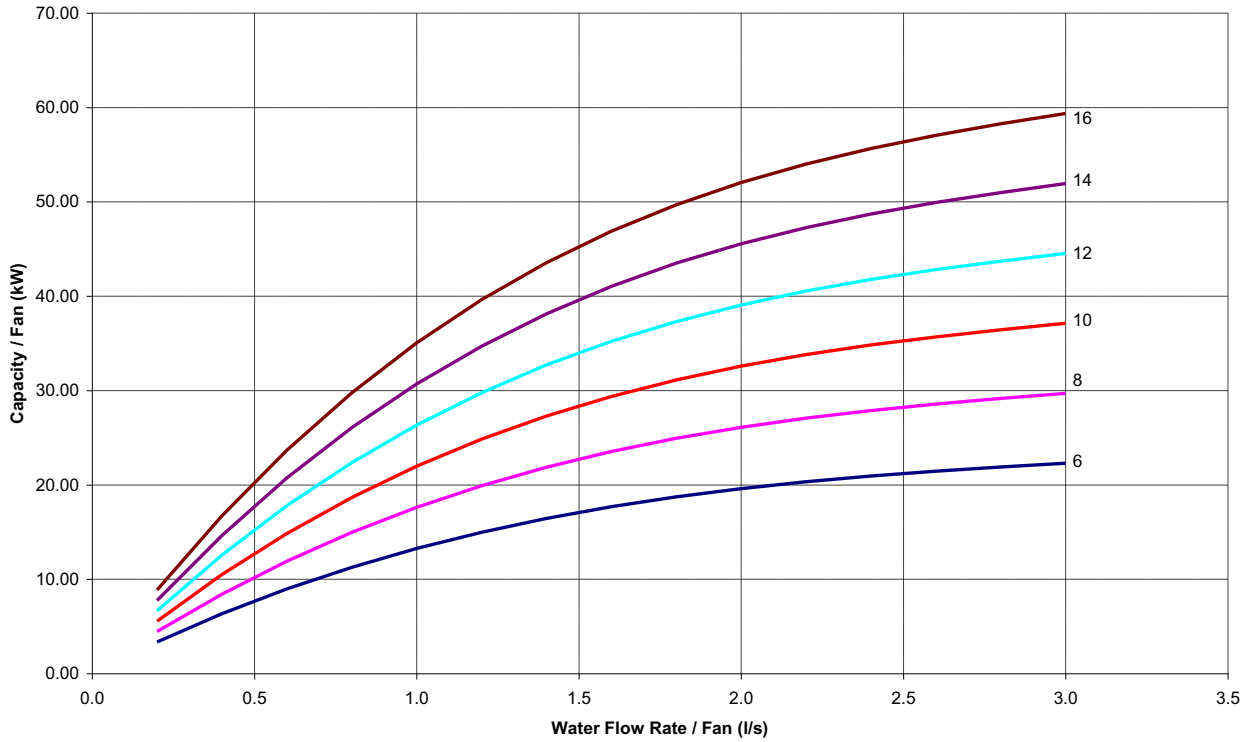
Cooling capacity	35kW x 4	=	140kW*
Flowrate	2 l/s x 4	=	8 l/s*

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

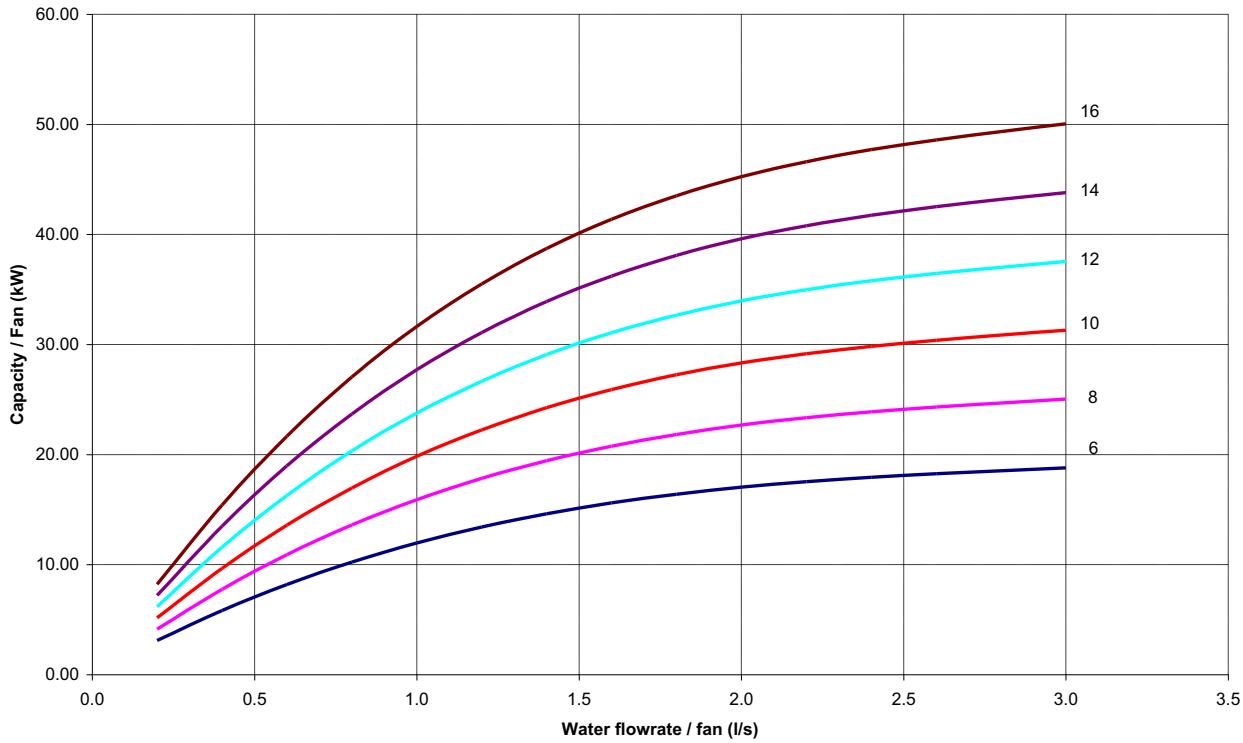
High Airflow EC Fans



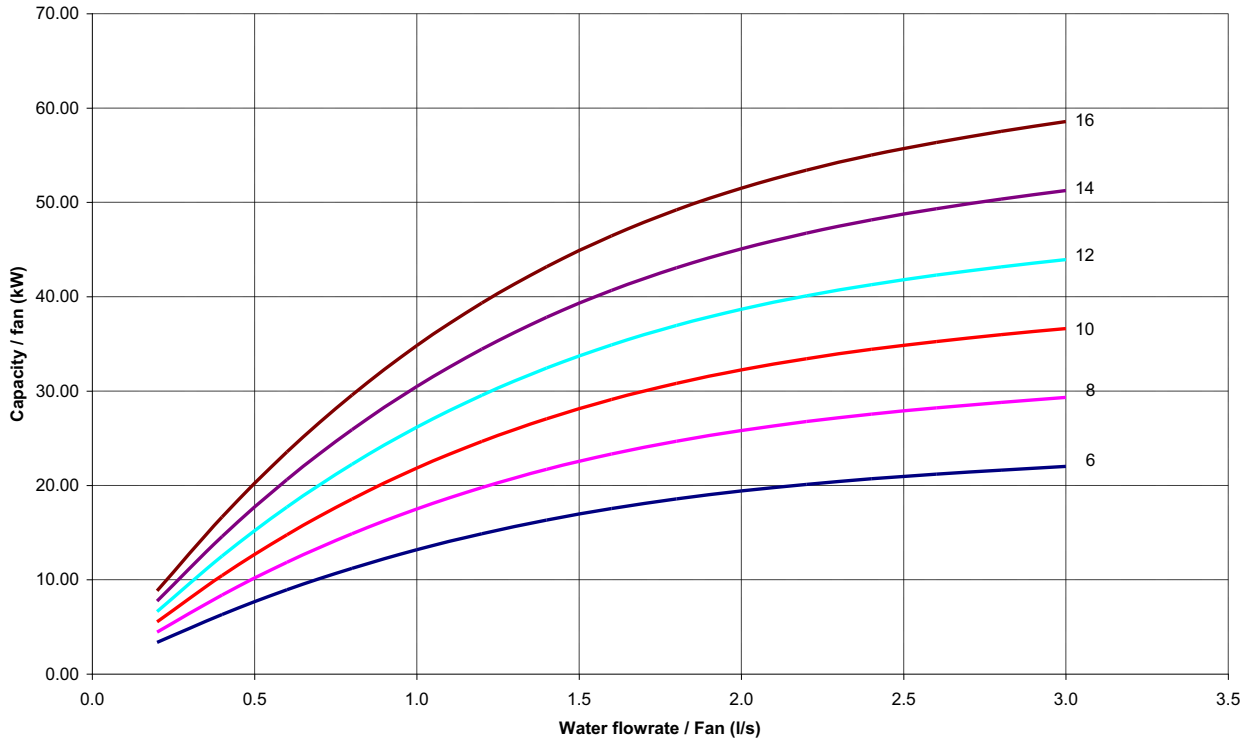
EC Fans Regular Quiet



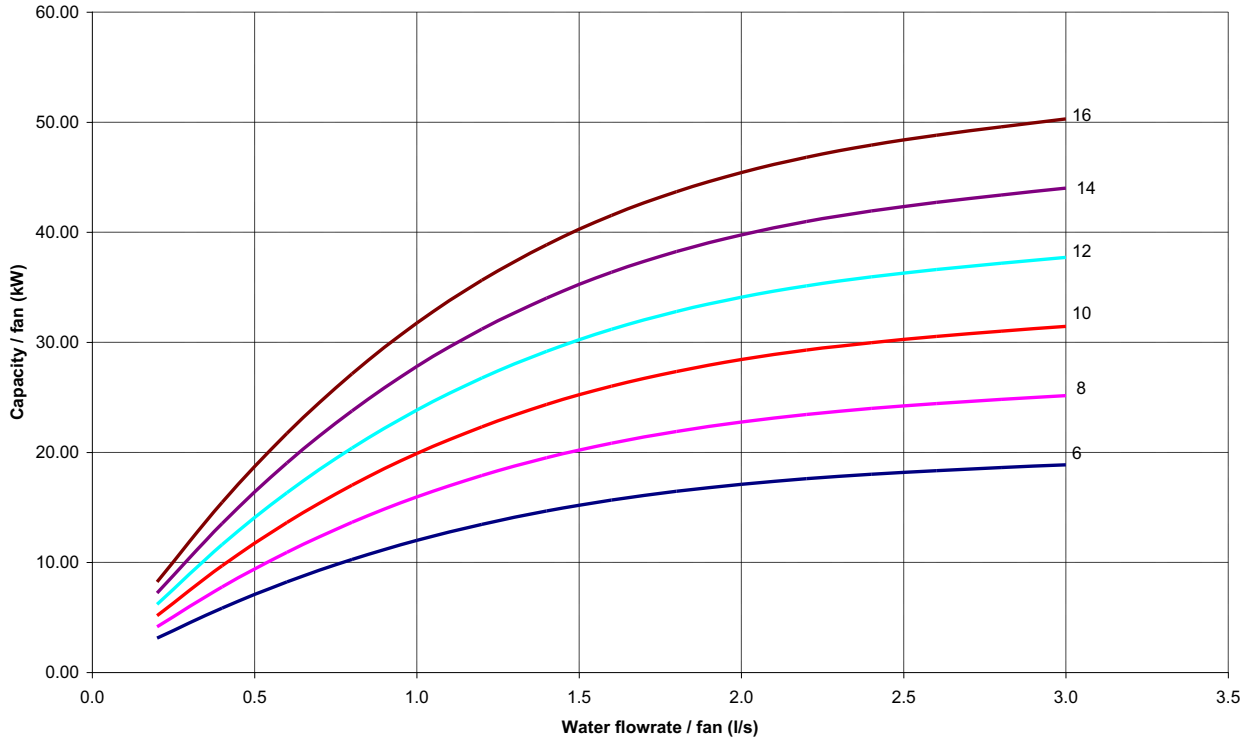
EC Fans Extra Quiet



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
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(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
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(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
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(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
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(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
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(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
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(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
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(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
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(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
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(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
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(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
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(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
All performance data is supplied in accordance with BS EN 14511-1:2013
(2) EER = DX Cooling Output ÷ (Compressor input power + Fan Input Power),
(3) Based on standard unit without options, operating weight includes refrigerant charge and water volume.
For unit weights with waterside options fitted please refer to Airedale.
(4) For minimum system volume, refer to ***Design Features & Information - Minimum System Water Volume Calculations***
(5) Ambient temperature that full Freecool capacity can be achieved
(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.

Hydronic Data

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**

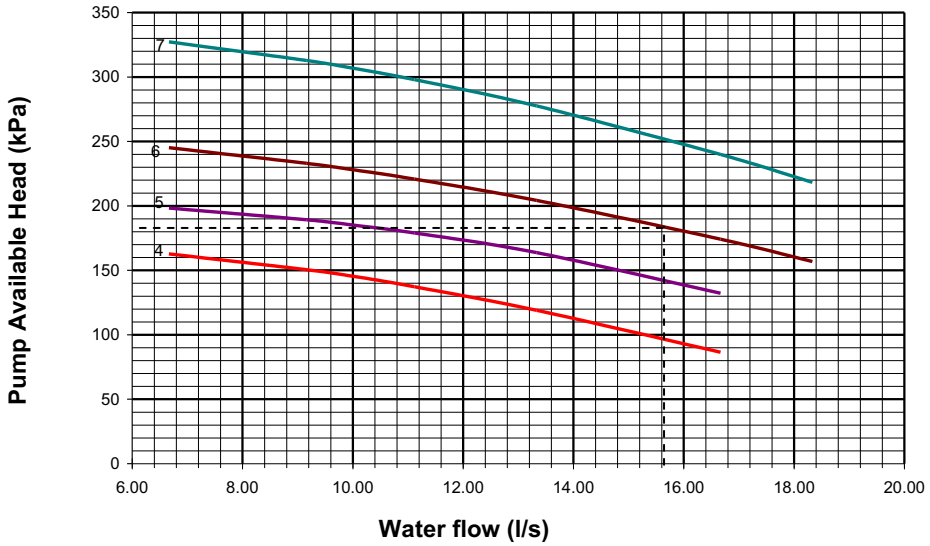
Example: DCC033DR-08BMH0

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 *Error! Reference source not found.*, **Error! Bookmark not defined.**.

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.

Waterside 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

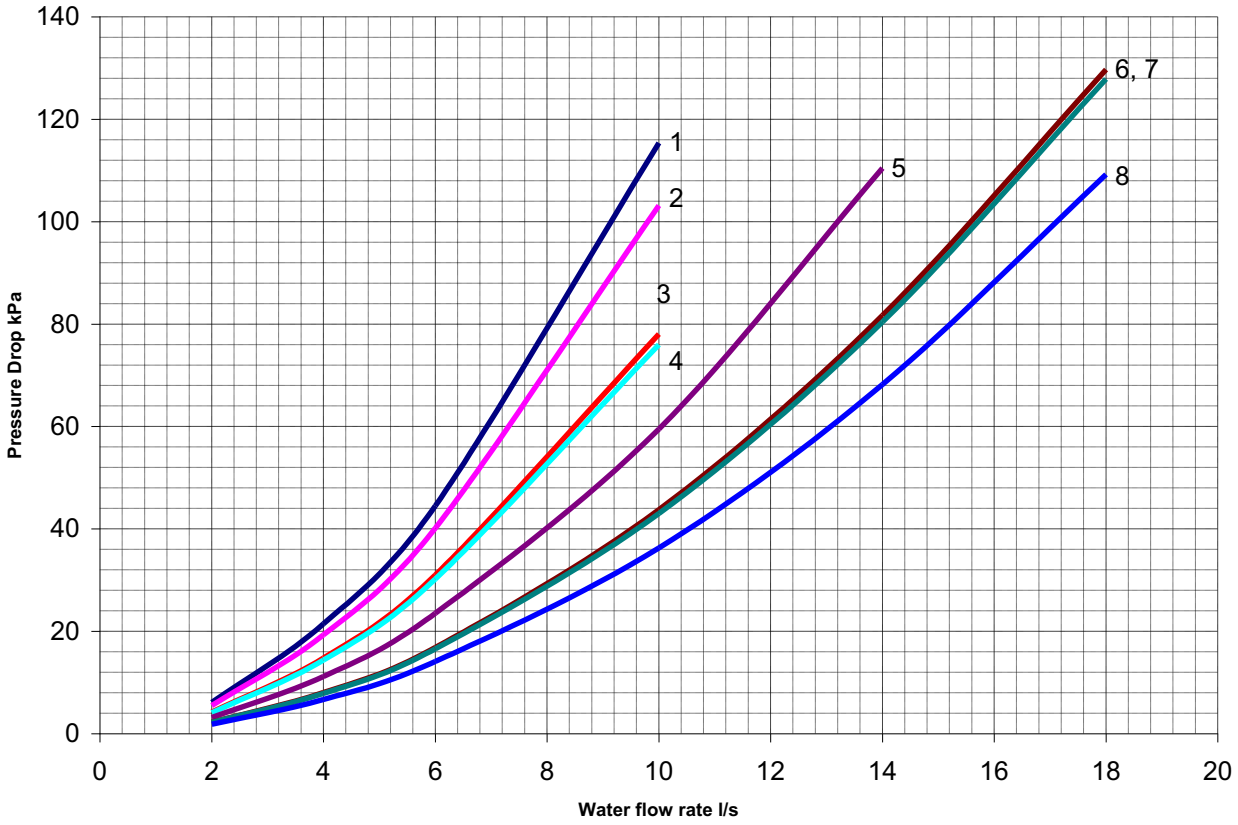
Waterside pressure drops based upon a standard configured unit. For pressure drop information with different configurations contact Airedale.

Waterside Pressure Drop - DCF

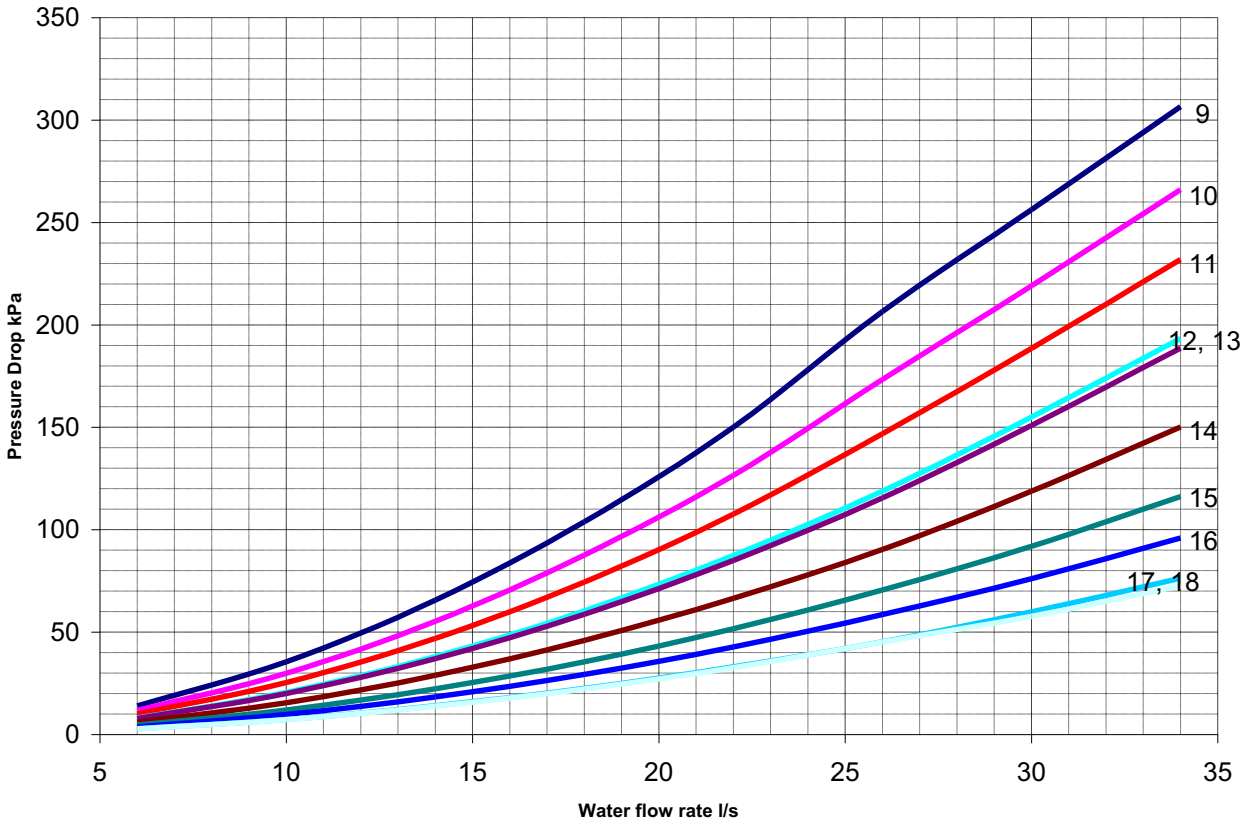
Unit	Waterflow(l/s)												
	4	6	8	10	12	14	16	18	20	22	24	26	28
	Pressure Drop (kPa)												
DCF014SR-04AL00	30.9	61.7	103.0	154.5	216.1	287.7	369.1						
DCF017SR-04AM00	28.0	55.7	93.0	139.7	195.7	260.8	335.1						
DCF021SR-04BS00	21.5	44.2	73.3	108.9	150.8	198.9	253.3						
DCF025SR-06BT00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

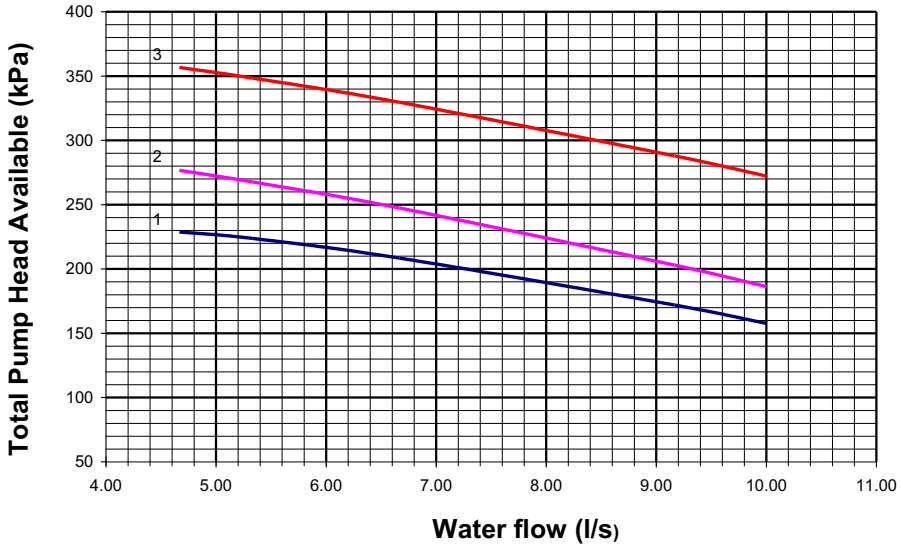
	Pump Curve (refer to Graphs)			
Air-Cooled	Standard		External Inverter	
	Standard Head	High Head	Standard Head	High Head
DCC011SR-04AK00	4	1	11	12
DCC014SR-04AL00	4	1	11	12
DCC017SR-04AM00	4	2	11	12
DCC021SR-04BS00	4	2	11	12
DCC023SR-04BT00	5	6	15	13
DCC024SR-06BT00	5	6	20	13
DCC011DR-04ACC0	4	1	11	12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

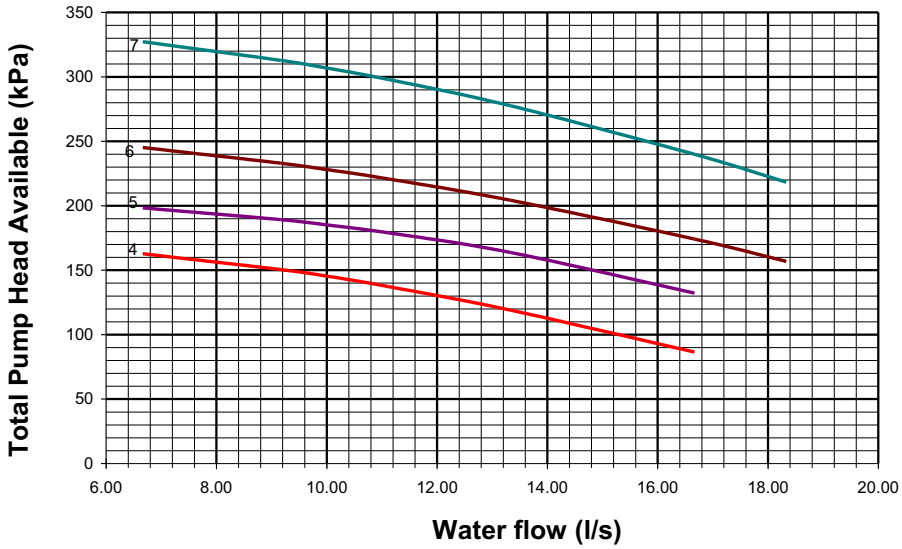
Pump Packages
DeltaChill Freecool Models

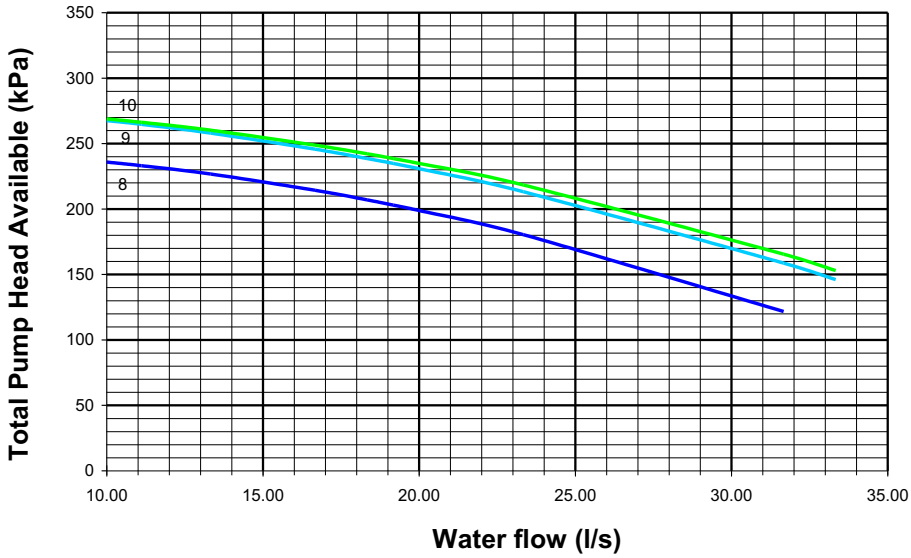
	Pump Curve (refer to graphs)			
	Standard		External Inverter	
	Standard Head	High Head	Standard Head	High Head
DCF014SR-04AL00	2	3	12	13
DCF017SR-04AM00	6	7	12	13
DCF021SR-04BS00	6	7	13	14
DCF025SR-06BT00	8	7	16	17
DCF013DR-04ACD0	2	3	12	13
DCF014DR-04ADD0	2	3	12	13
DCF015DR-04ADF0	6	7	12	13
DCF016DR-04AJJ0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

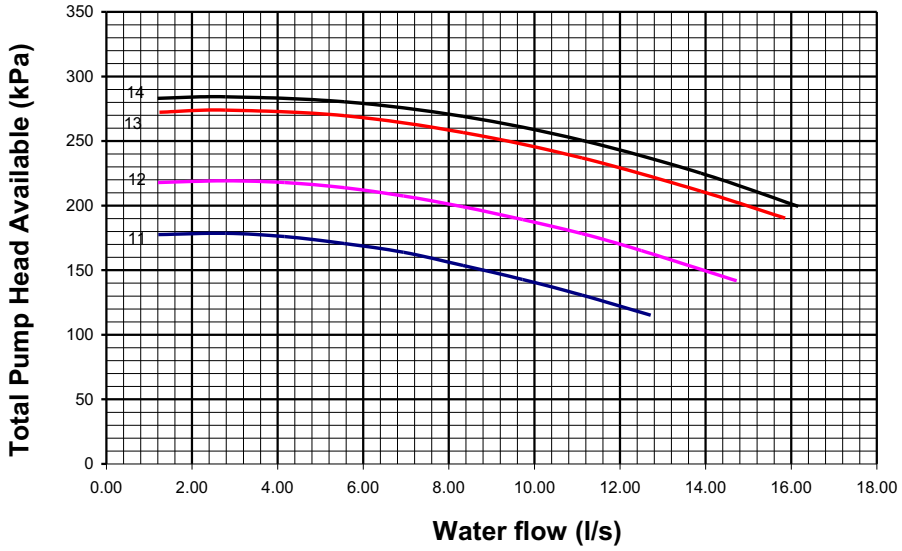


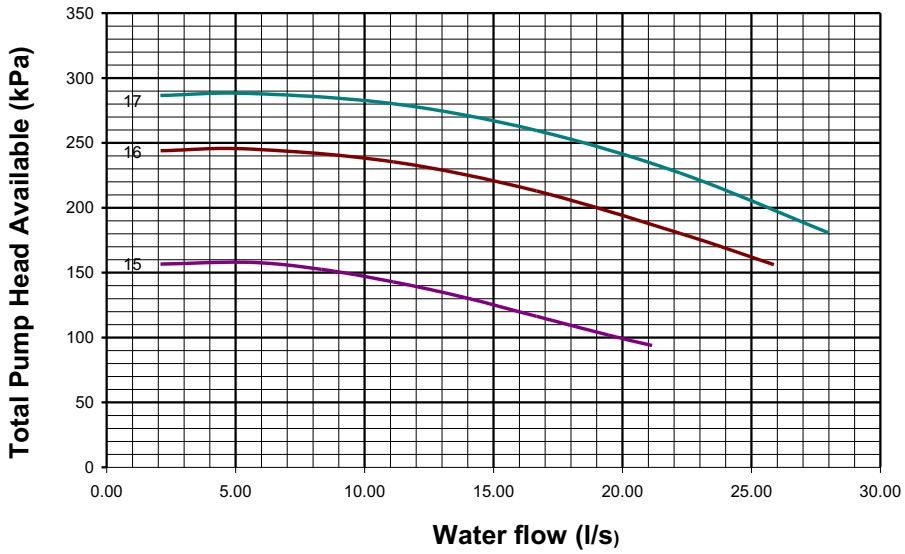


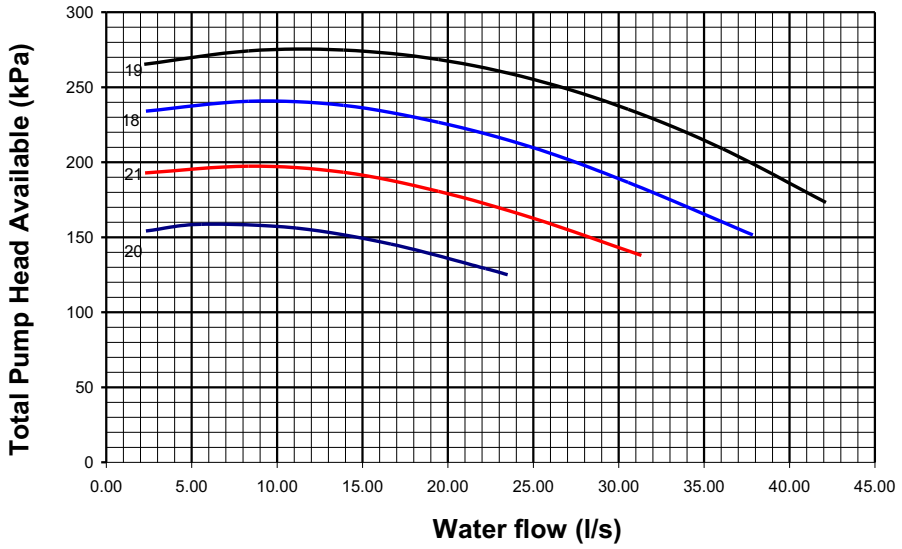


Data based on 20% Ethylene Glycol Solution

Inverter Driven Pumps





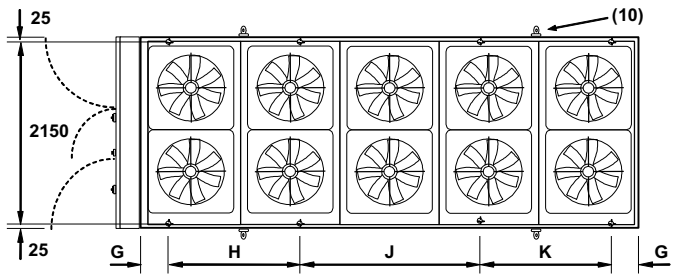


Data based on 20% Ethylene Glycol Solution. Inverters at 50Hz.

Installation Data

Dimensions

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



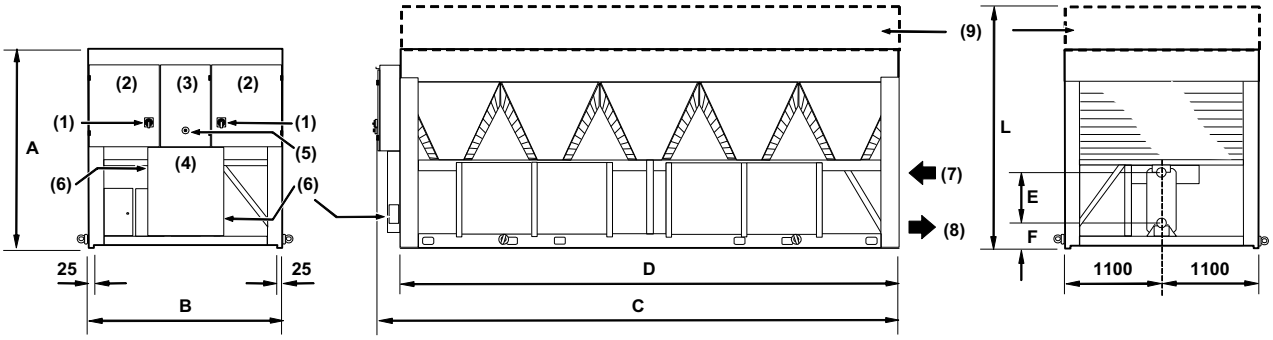
Grooved Water Connections:

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

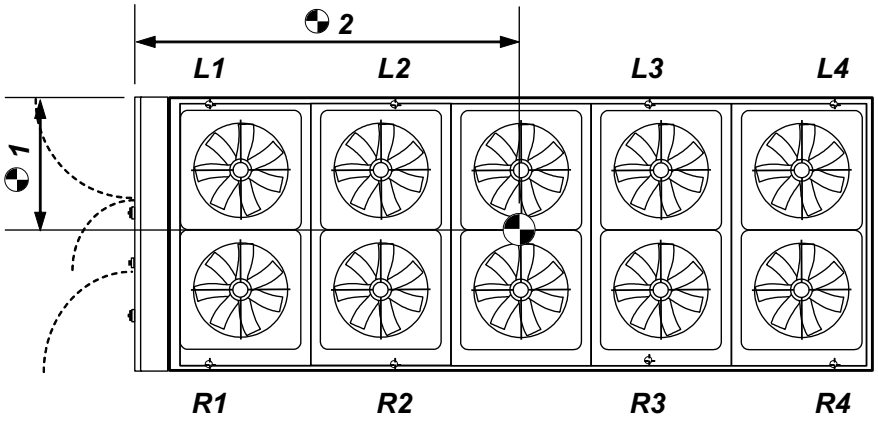


		A	B	C	D	E	F	G	H	J	K	L
4 Fan	mm	2405	2200	2554	2270	550	196	310	1650	N/A	N/A	2905
6 Fan	mm	2415	2200	3690	3407	550	206	712	1982	N/A	N/A	2915
8 Fan	mm	2415	2200	4820	4539	550	206	416	1853	1853	N/A	2915
10 Fan	mm	2415	2200	5956	5672	550	206	311	1500	2050	1500	2915
12 Fan	mm	2415	2200	7090	6805	550	206	595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

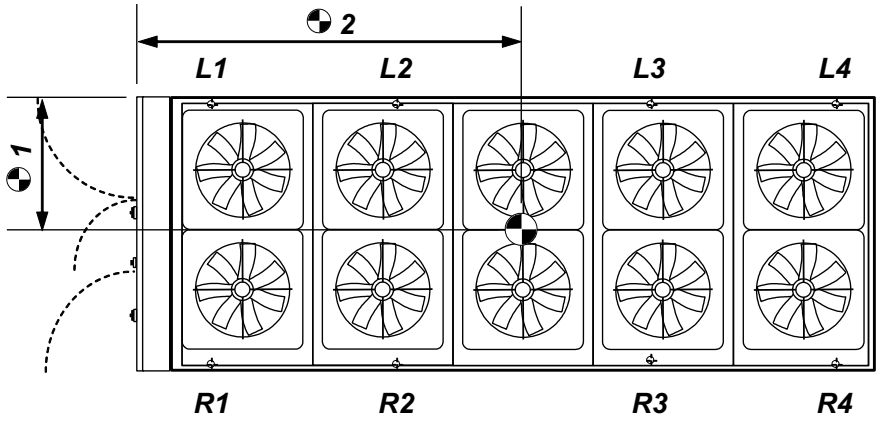


= C of G

	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)

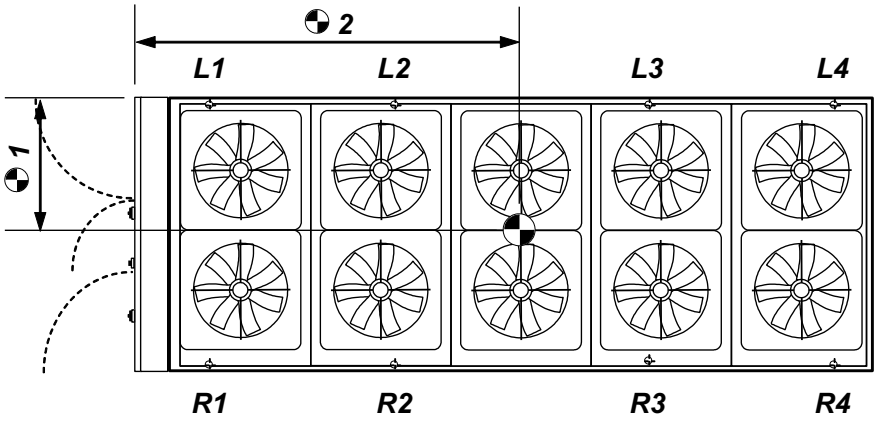


	L1	L2	L3	L4	R1	R2	R3	R4	C of G 1	C of G 2
	P1	P3	P5	P7	P2	P4	P6	P8	mm	mm
DCC011SX-04AK00	375	330			500	435			1250	1080
DCC014SX-04AL00	375	350			530	495			1285	1110
DCC017SX-04AM00	380	360			540	510			1290	1110
DCC021SX-06BS00	495	530			715	765			1295	1740
DCC023SX-04BT00	445	360			705	570			1340	1050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



	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.

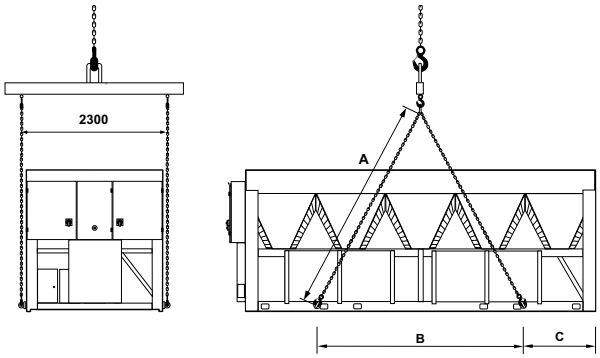
Only use lifting points provided.

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

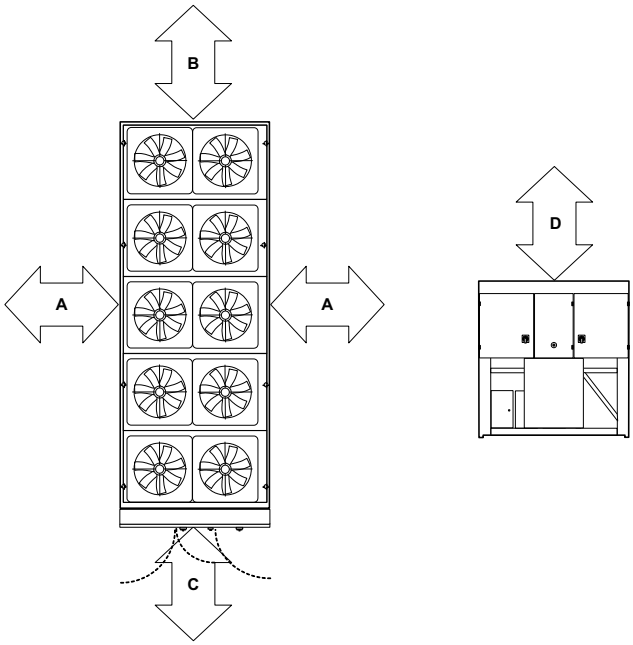
The installation position should be selected with the following points in mind:

- 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

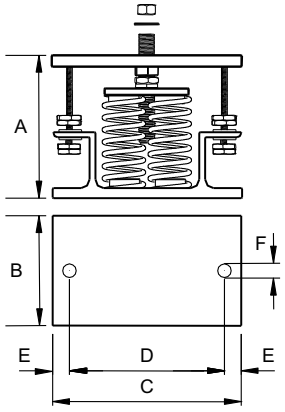
Installation Data

Anti Vibration Mounting (Optional)

Spring Type

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

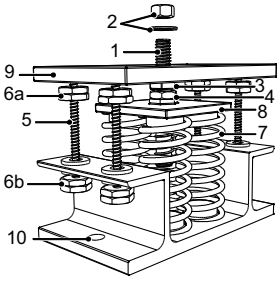
Dimensions



			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).

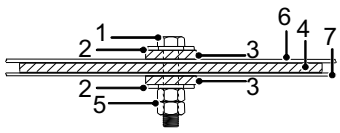
CAUTION **Mountings must be adjusted incrementally in turn. Do not fully adjust 1 mount at a time as this may overload and damage springs.**

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.**

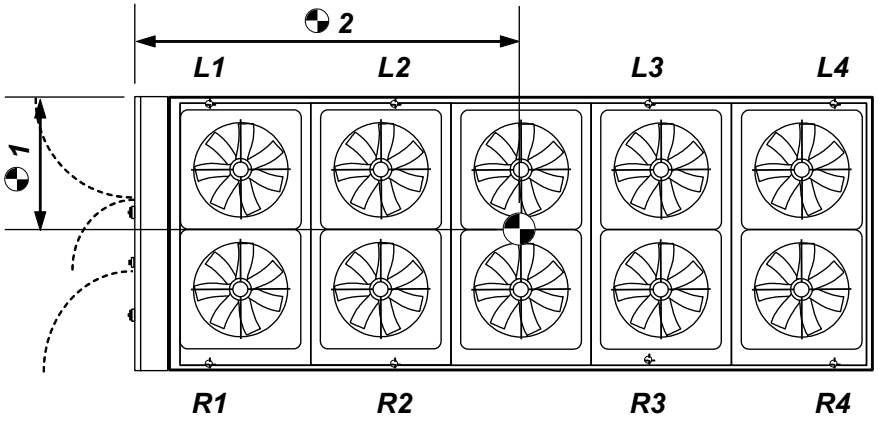
Pad Type

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

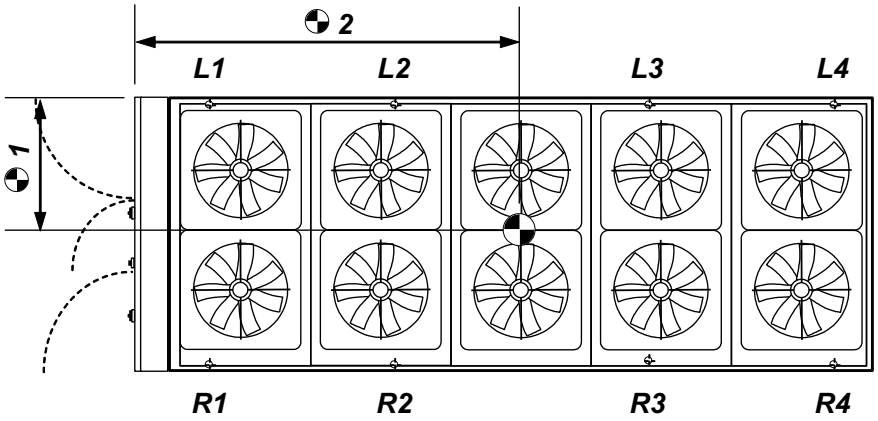
Anti Vibration Mount Allocations No pumps



= C of G

	L1	L2	L3	L4	R1	R2	R3	R4
DCC011SR-04AK00	Red	Red			Red	Red		
DCC014SR-04AL00	Red	Red			Black	Black		
DCC017SR-04AM00	Red	Red			Black	Black		
DCC021SR-04BS00	Red	Red			Orange	Black		
DCC023SR-04BT00	Black	Red			Orange	Black		
DCC024SR-06BT00	Black	Black			Orange	Orange		
DCC011DR-04ACC0	Red	Red			Black	Red		
DCC013DR-04ACD0	Red	Red			Black	Red		
DCC014DR-04ADD0	Red	Red			Black	Red		
DCC015DR-04ADF0	Red	Red			Orange	Red		
DCC016DR-04AJJ0	Black	Red			Orange	Black		
DCC018DR-04BJK0	Black	Red			Orange	Black		
DCC019DR-04AFK0	Black	Red			Orange	Red		
DCC020DR-06AFK0	Black	Red			Plain	Black		
DCC021DR-04AKK0	Black	Red			Orange	Black		
DCC022DR-06AKK0	Orange	Red			Plain	Black		
DCC024DR-04BKL0	Black	Red			Orange	Black		
DCC025DR-06BKL0	Orange	Black			Yellow	Orange		
DCC027DR-04BLL0	Black	Red			Plain	Black		
DCC028DR-06BLL0	Orange	Black			Yellow	Orange		
DCC030DR-06BLM0	Orange	Black			Yellow	Orange		
DCC031DR-08BLM0	Black	Red	Red		Orange	Plain	Black	
DCC032DR-06BMM0	Orange	Black			Yellow	Orange		
DCC033DR-08BMM0	Black	Red	Red		Orange	Plain	Black	
DCC036DR-06BMS0	Orange	Black			Yellow	Plain		
DCC038DR-10BMS0	Red	Red	Red	Red	Black	Black	Black	Orange
DCC039DR-06BSS0	Orange	Black			Yellow	Plain		
DCC042DR-10BSS0	Black	Red	Red	Red	Orange	Orange	Black	Black
DCC043DR-08BST0	Black	Black	Red		Orange	Yellow	Orange	
DCC045DR-10BST0	Black	Red	Red	Red	Orange	Orange	Orange	Orange
DCC046DR-08BTT0	Black	Black	Red		Plain	Yellow	Orange	
DCC048DR-10BTT0	Black	Red	Red	Red	Orange	Orange	Orange	Black

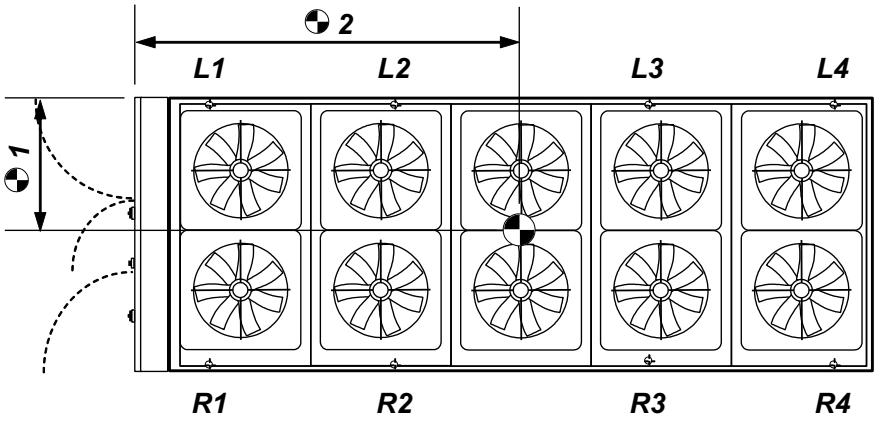
Anti Vibration Mount Allocations No Pumps



= C of G

	L1	L2	L3	L4	R1	R2	R3	R4
DCC011SX-04AK00	Red	Red			Black	Red		
DCC014SX-04AL00	Red	Red			Black	Black		
DCC017SX-04AM00	Red	Red			Black	Black		
DCC021SX-06BS00	Black	Black			Orange	Plain		
DCC023SX-04BT00	Black	Red			Orange	Black		
DCC024SX-06BT00	Black	Black			Plain	Plain		
DCC011DX-04ACC0	Red	Red			Orange	Red		
DCC013DX-04ACD0	Red	Red			Orange	Red		
DCC014DX-04ADD0	Red	Red			Orange	Red		
DCC015DX-04ADF0	Red	Red			Orange	Black		
DCC016DX-04AJJ0	Black	Red			Orange	Black		
DCC018DX-04BJK0	Black	Red			Orange	Black		
DCC019DX-04AFK0	Black	Red			Orange	Black		
DCC020DX-06AFK0	Orange	Red			Yellow	Orange		
DCC021DX-04AKK0	Black	Red			Plain	Black		
DCC022DX-06AKK0	Orange	Red			Yellow	Orange		
DCC024DX-06BKL0	Orange	Black			Yellow	Orange		
DCC025DX-08BKL0	Black	Red	Red		Orange	Plain	Black	
DCC027DX-06BLL0	Orange	Black			Yellow	Plain		
DCC028DX-08BLL0	Black	Black	Red		Orange	Plain	Black	
DCC030DX-06BLM0	Orange	Black			Yellow	Plain		
DCC031DX-08BLM0	Black	Black	Red		Orange	Plain	Black	
DCC032DX-06BMM0	Orange	Black			Yellow	Plain		
DCC033DX-08BMM0	Black	Black	Red		Orange	Plain	Black	
DCC036DX-08BMS0	Black	Black	Red		Orange	Yellow	Orange	
DCC038DX-10BMS0	Black	Red	Red	Red	Orange	Orange	Orange	Orange
DCC039DX-08BSS0	Black	Black	Red		Plain	Yellow	Orange	
DCC042DX-12BSS0	Black	Black	Black	Red	Plain	Orange	Orange	Orange
DCC043DX-08BST0	Black	Black	Red		Plain	Yellow	Orange	
DCC045DX-12BST0	Black	Black	Black	Black	Orange	Orange	Orange	Plain
DCC046DX-10BTT0	Black	Black	Red	Red	Orange	Orange	Orange	Orange
DCC048DX-12BTT0	Black	Black	Black	Black	Plain	Plain	Orange	Orange

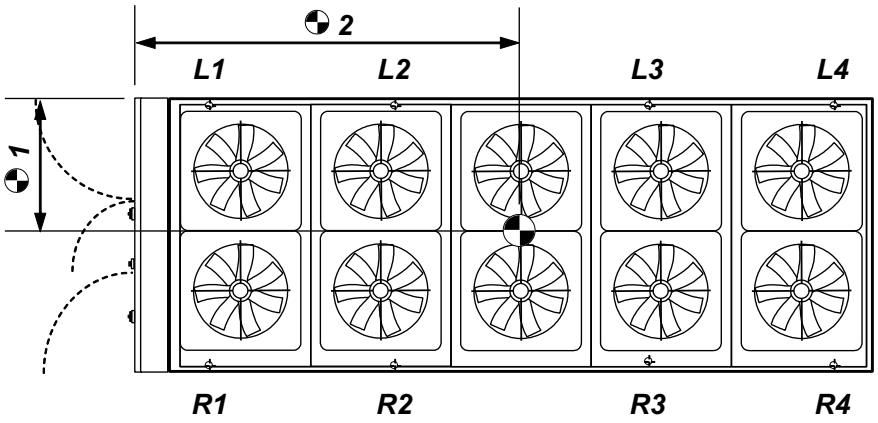
Anti Vibration Mount Allocations Single Pump



= C of G

	L1	L2	L3	L4	R1	R2	R3	R4
DCC011SR-04AK00	Red	Red			Red	Red		
DCC014SR-04AL00	Red	Red			Black	Black		
DCC017SR-04AM00	Red	Red			Black	Black		
DCC021SR-04BS00	Red	Red			Orange	Black		
DCC023SR-04BT00	Black	Red			Orange	Black		
DCC024SR-06BT00	Black	Black			Orange	Orange		
DCC011DR-04ACC0	Red	Red			Black	Red		
DCC013DR-04ACD0	Red	Red			Black	Red		
DCC014DR-04ADD0	Red	Red			Black	Red		
DCC015DR-04ADF0	Red	Red			Orange	Red		
DCC016DR-04AJJ0	Black	Red			Orange	Black		
DCC018DR-04BJK0	Black	Red			Orange	Black		
DCC019DR-04AFK0	Black	Red			Orange	Red		
DCC020DR-06AFK0	Black	Red			Plain	Black		
DCC021DR-04AKK0	Black	Red			Orange	Black		
DCC022DR-06AKK0	Orange	Red			Plain	Black		
DCC024DR-04BKL0	Black	Red			Orange	Black		
DCC025DR-06BKL0	Orange	Black			Yellow	Orange		
DCC027DR-04BLL0	Black	Red			Plain	Black		
DCC028DR-06BLL0	Orange	Black			Yellow	Orange		
DCC030DR-06BLM0	Orange	Black			Yellow	Orange		
DCC031DR-08BLM0	Black	Red	Red		Orange	Plain	Black	
DCC032DR-06BMM0	Orange	Black			Yellow	Orange		
DCC033DR-08BMM0	Black	Red	Red		Orange	Plain	Black	
DCC036DR-06BMS0	Orange	Black			Yellow	Plain		
DCC038DR-10BMS0	Red	Red	Red	Red	Black	Black	Black	Orange
DCC039DR-06BSS0	Orange	Black			Yellow	Plain		
DCC042DR-10BSS0	Black	Red	Red	Red	Orange	Orange	Black	Black
DCC043DR-08BST0	Black	Black	Red		Orange	Yellow	Orange	
DCC045DR-10BST0	Black	Red	Red	Red	Orange	Orange	Orange	Orange
DCC046DR-08BTT0	Black	Black	Red		Plain	Yellow	Orange	
DCC048DR-10BTT0	Black	Red	Red	Red	Orange	Orange	Orange	Black

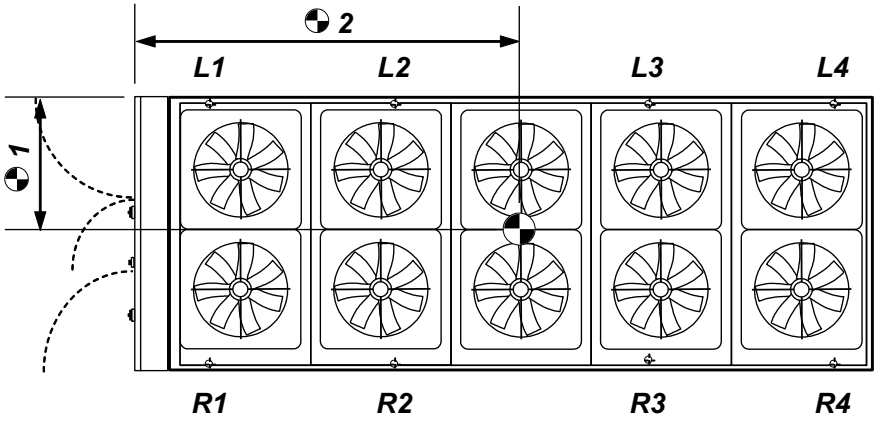
Anti Vibration Mount Allocations Single Pump



= C of G

	L1	L2	L3	L4	R1	R2	R3	R4
DCC011SX-04AK00	Red	Red			Black	Red		
DCC014SX-04AL00	Red	Red			Black	Black		
DCC017SX-04AM00	Red	Red			Black	Black		
DCC021SX-06BS00	Black	Black			Orange	Plain		
DCC023SX-04BT00	Black	Red			Orange	Black		
DCC024SX-06BT00	Black	Black			Plain	Plain		
DCC011DX-04ACC0	Red	Red			Orange	Red		
DCC013DX-04ACD0	Red	Red			Orange	Red		
DCC014DX-04ADD0	Red	Red			Orange	Red		
DCC015DX-04ADF0	Red	Red			Orange	Black		
DCC016DX-04AJJ0	Black	Red			Orange	Black		
DCC018DX-04BJK0	Black	Red			Orange	Black		
DCC019DX-04AFK0	Black	Red			Orange	Black		
DCC020DX-06AFK0	Orange	Red			Yellow	Orange		
DCC021DX-04AKK0	Black	Red			Plain	Black		
DCC022DX-06AKK0	Orange	Red			Yellow	Orange		
DCC024DX-06BKL0	Orange	Black			Yellow	Orange		
DCC025DX-08BKL0	Black	Red	Red		Orange	Plain	Black	
DCC027DX-06BLL0	Orange	Black			Yellow	Plain		
DCC028DX-08BLL0	Black	Black	Red		Orange	Plain	Black	
DCC030DX-06BLM0	Orange	Black			Yellow	Plain		
DCC031DX-08BLM0	Black	Black	Red		Orange	Plain	Black	
DCC032DX-06BMM0	Orange	Black			Yellow	Plain		
DCC033DX-08BMM0	Black	Black	Red		Orange	Plain	Black	
DCC036DX-08BMS0	Black	Black	Red		Orange	Yellow	Orange	
DCC038DX-10BMS0	Black	Red	Red	Red	Orange	Orange	Orange	Orange
DCC039DX-08BSS0	Black	Black	Red		Plain	Yellow	Orange	
DCC042DX-12BSS0	Black	Black	Black	Red	Plain	Orange	Orange	Orange
DCC043DX-08BST0	Black	Black	Red		Plain	Yellow	Orange	
DCC045DX-12BST0	Black	Black	Black	Black	Orange	Orange	Orange	Plain
DCC046DX-10BTT0	Black	Black	Red	Red	Orange	Orange	Orange	Orange
DCC048DX-12BTT0	Black	Black	Black	Black	Plain	Plain	Orange	Orange

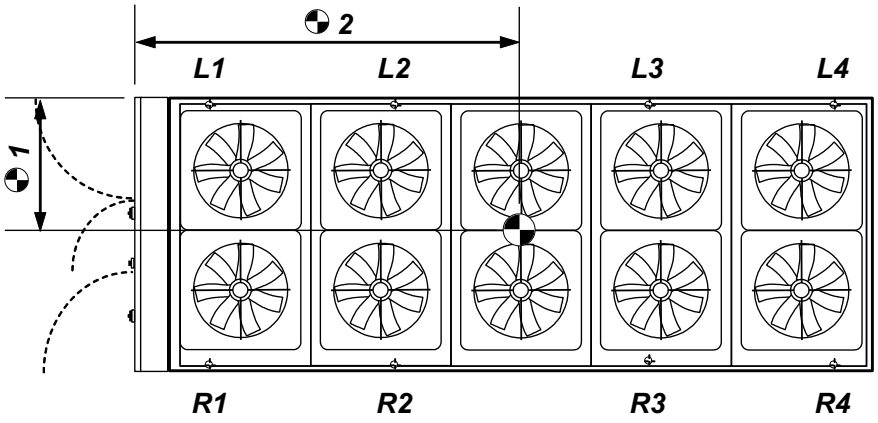
Anti Vibration Mount Allocations Run / Standby Pump



= C of G

	L1	L2	L3	L4	R1	R2	R3	R4
DCC011SR-04AK00	Red	Black			Red	Black		
DCC014SR-04AL00	Red	Black			Black	Orange		
DCC017SR-04AM00	Red	Black			Black	Orange		
DCC021SR-04BS00	Black	Black			Orange	Orange		
DCC023SR-04BT00	Black	Black			Orange	Orange		
DCC024SR-06BT00	Orange	Orange			Orange	Yellow		
DCC011DR-04ACC0	Black	Red			Black	Black		
DCC013DR-04ACD0	Black	Black			Black	Black		
DCC014DR-04ADD0	Black	Black			Black	Black		
DCC015DR-04ADF0	Black	Black			Black	Black		
DCC016DR-04AJJ0	Black	Black			Orange	Black		
DCC018DR-04BJK0	Black	Black			Orange	Black		
DCC019DR-04AFK0	Black	Black			Orange	Black		
DCC020DR-06AFK0	Orange	Black			Plain	Orange		
DCC021DR-04AKK0	Black	Black			Orange	Orange		
DCC022DR-06AKK0	Orange	Orange			Plain	Orange		
DCC024DR-04BKL0	Black	Black			Orange	Orange		
DCC025DR-06BKL0	Orange	Orange			Yellow	Plain		
DCC027DR-04BLL0	Orange	Black			Plain	Orange		
DCC028DR-06BLL0	Orange	Orange			Yellow	Plain		
DCC030DR-06BLM0	Orange	Orange			Yellow	Yellow		
DCC031DR-08BLM0	Black	Black	Black		Orange	Plain	Orange	
DCC032DR-06BMM0	Plain	Orange			Yellow	Yellow		
DCC033DR-08BMM0	Black	Black	Black		Orange	Plain	Black	
DCC036DR-06BMS0	Plain	Orange			Yellow	Yellow		
DCC038DR-10BMS0	Black	Black	Black	Black	Black	Black	Orange	Orange
DCC039DR-06BSS0	Plain	Orange			Yellow	Yellow		
DCC042DR-10BSS0	Black	Black	Black	Black	Orange	Orange	Orange	Orange
DCC043DR-08BST0	Orange	Orange	Black		Plain	Yellow	Orange	
DCC045DR-10BST0	Black	Black	Black	Black	Orange	Orange	Orange	Orange
DCC046DR-08BTT0	Orange	Orange	Black		Plain	Yellow	Orange	
DCC048DR-10BTT0	Black	Black	Black	Black	Orange	Orange	Orange	Orange

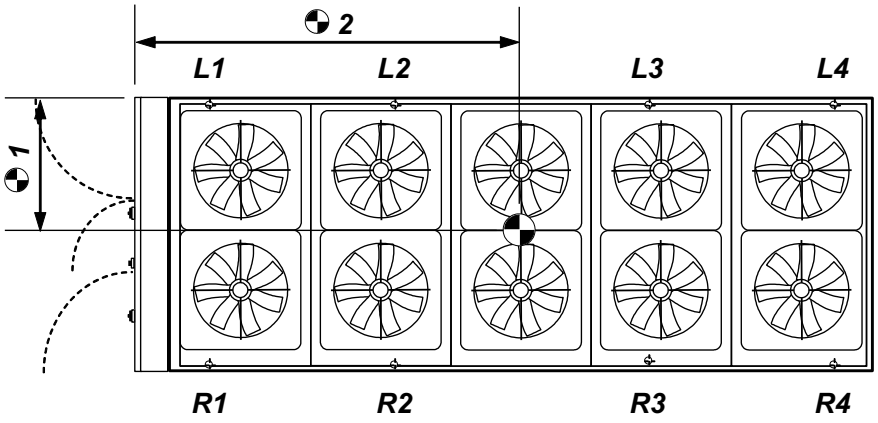
Anti Vibration Mount Allocations Run / Standby Pump continued



= C of G

	L1	L2	L3	L4	R1	R2	R3	R4
DCC011SX-04AK00	Black	Black			Black	Black		
DCC014SX-04AL00	Black	Black			Black	Orange		
DCC017SX-04AM00	Black	Black			Black	Orange		
DCC021SX-06BS00	Black	Orange			Orange	Yellow		
DCC023SX-04BT00	Black	Black			Orange	Orange		
DCC024SX-06BT00	Black	Plain			Orange	Yellow		
DCC011DX-04ACC0	Black	Black			Black	Black		
DCC013DX-04ACD0	Black	Black			Orange	Black		
DCC014DX-04ADD0	Black	Black			Orange	Black		
DCC015DX-04ADF0	Black	Black			Orange	Black		
DCC016DX-04AJJ0	Black	Black			Orange	Orange		
DCC018DX-04BJK0	Black	Black			Orange	Orange		
DCC019DX-04AFK0	Black	Black			Orange	Orange		
DCC020DX-06AFK0	Orange	Orange			Plain	Plain		
DCC021DX-04AKK0	Black	Black			Orange	Orange		
DCC022DX-06AKK0	Orange	Orange			Yellow	Plain		
DCC024DX-06BKL0	Orange	Orange			Yellow	Yellow		
DCC025DX-08BKL0	Black	Black	Black		Orange	Plain	Orange	
DCC027DX-06BLL0	Orange	Orange			Yellow	Yellow		
DCC028DX-08BLL0	Black	Black	Black		Orange	Yellow	Orange	
DCC030DX-06BLM0	Plain	Orange			Yellow	Yellow		
DCC031DX-08BLM0	Black	Black	Black		Orange	Yellow	Orange	
DCC032DX-06BMM0	Plain	Orange			Yellow	Yellow		
DCC033DX-08BMM0	Black	Black	Black		Orange	Yellow	Orange	
DCC036DX-08BMS0	Orange	Orange	Black		Orange	Yellow	Orange	
DCC038DX-10BMS0	Black	Black	Black	Black	Orange	Orange	Orange	Orange
DCC039DX-08BSS0	Orange	Orange	Black		Plain	Yellow	Orange	
DCC042DX-12BSS0	Black	Black	Black	Black	Plain	Plain	Plain	Orange
DCC043DX-08BST0	Orange	Orange	Black		Plain	Yellow	Plain	
DCC045DX-12BST0	Black	Black	Black	Black	Orange	Plain	Plain	Plain
DCC046DX-10BTT0	Black	Black	Black	Black	Orange	Orange	Plain	Orange
DCC048DX-12BTT0	Black	Black	Black	Black	Plain	Plain	Plain	Orange

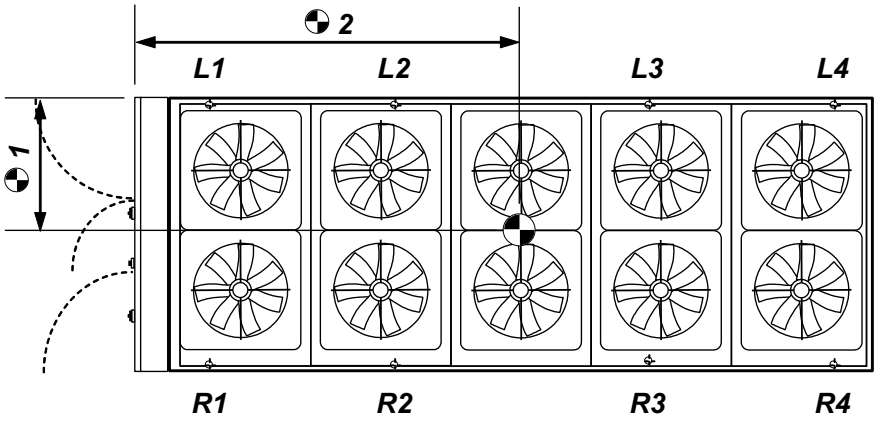
Freecool Anti Vibration Mount Allocations No pumps



= C of G

	L1	L2	L3	L4	R1	R2	R3	R4
DCF014SR-04AL00	Red	Black			Black	Orange		
DCF017SR-04AM00	Red	Black			Black	Orange		
DCF021SR-04BS00	Black	Black			Orange	Orange		
DCF025SR-06BT00	Orange	Plain			Plain	Yellow		
DCF013DR-04ACD0	Black	Black			Black	Black		
DCF014DR-04ADD0	Black	Black			Orange	Black		
DCF015DR-04ADF0	Black	Black			Orange	Black		
DCF016DR-04AJJ0	Black	Black			Orange	Orange		
DCF018DR-04BJK0	Black	Black			Orange	Orange		
DCF020DR-06BFK0	Orange	Orange			Plain	Plain		
DCF023DR-06BKK0	Orange	Orange			Yellow	Plain		
DCF026DR-06BKL0	Orange	Orange			Yellow	Yellow		
DCF029DR-06BLL0	Orange	Orange			Yellow	Yellow		
DCF032DR-08BLM0	Orange	Orange	Orange		Orange	Plain	Plain	
DCF035DR-08BMM0	Orange	Orange	Orange		Plain	Plain	Plain	
DCF039DR-10BMS0	Black	Black	Black	Black	Orange	Orange	Orange	Orange
DCF044DR-10BSS0	Black	Black	Black	Black	Orange	Orange	Orange	Orange
DCF014SX-04AL00	Red	Black			Black	Orange		
DCF017SX-04AM00	Red	Black			Black	Orange		
DCF021SX-06BS00	Black	Plain			Plain	Yellow		
DCF025SX-06BT00	Orange	Yellow			Plain	Yellow		
DCF013DX-04ACD0	Black	Black			Orange	Orange		
DCF014DX-04ADD0	Black	Black			Orange	Orange		
DCF015DX-04ADF0	Black	Black			Orange	Orange		
DCF016DX-04AJJ0	Black	Black			Orange	Orange		
DCF018DX-04BJK0	Black	Black			Plain	Orange		
DCF020DX-06BFK0	Orange	Orange			Yellow	Yellow		
DCF023DX-06BKK0	Orange	Orange			Yellow	Yellow		
DCF026DX-08BKL0	Orange	Orange	Orange		Orange	Plain	Plain	
DCF029DX-08BLL0	Orange	Orange	Orange		Plain	Plain	Plain	
DCF032DX-08BLM0	Orange	Orange	Orange		Plain	Plain	Plain	
DCF035DX-08BMM0	Orange	Orange	Orange		Plain	Plain	Plain	
DCF039DX-10BMS0	Black	Black	Black	Black	Orange	Orange	Orange	Orange
DCF044DX-12BSS0	Orange	Orange	Orange	Orange	Plain	Plain	Plain	Plain

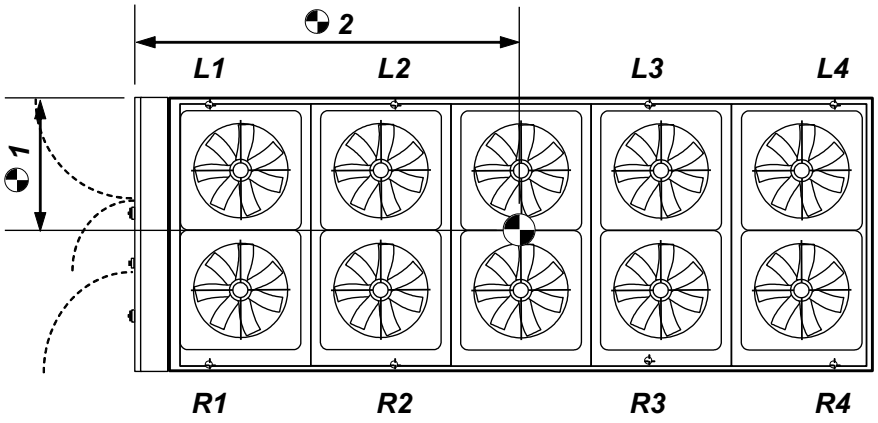
Freecool Anti Vibration Mount Allocations Single Pump



= C of G

	L1	L2	L3	L4	R1	R2	R3	R4
DCF014SR-04AL00	Red	Orange			Black	Plain		
DCF017SR-04AM00	Red	Orange			Black	Plain		
DCF021SR-04BS00	Black	Orange			Orange	Plain		
DCF025SR-06BT00	Orange	Yellow			Orange	Yellow		
DCF013DR-04ACD0	Black	Black			Black	Orange		
DCF014DR-04ADD0	Black	Black			Orange	Orange		
DCF015DR-04ADF0	Black	Black			Orange	Orange		
DCF016DR-04AJJ0	Black	Black			Orange	Orange		
DCF018DR-04BJK0	Black	Black			Orange	Orange		
DCF020DR-06BFK0	Orange	Plain			Plain	Yellow		
DCF023DR-06BKK0	Orange	Plain			Plain	Yellow		
DCF026DR-06BKL0	Plain	Yellow			Yellow	Yellow		
DCF029DR-06BLL0	Plain	Yellow			Yellow	Yellow		
DCF032DR-08BLM0	Orange	Orange	Orange		Orange	Plain	Plain	
DCF035DR-08BMM0	Orange	Orange	Orange		Plain	Plain	Plain	
DCF039DR-10BMS0	Black	Orange	Orange	Orange	Orange	Orange	Plain	Orange
DCF044DR-10BSS0	Orange	Orange	Orange	Orange	Orange	Plain	Plain	Orange
DCF014SX-04AL00	Black	Orange			Black	Plain		
DCF017SX-04AM00	Black	Orange			Black	Plain		
DCF021SX-06BS00	Orange	Yellow			Orange	Yellow		
DCF025SX-06BT00	Orange	Yellow			Plain	Yellow		
DCF013DX-04ACD0	Black	Black			Orange	Orange		
DCF014DX-04ADD0	Black	Black			Orange	Orange		
DCF015DX-04ADF0	Black	Black			Orange	Orange		
DCF016DX-04AJJ0	Black	Black			Orange	Plain		
DCF018DX-04BJK0	Black	Orange			Plain	Plain		
DCF020DX-06BFK0	Orange	Plain			Yellow	Yellow		
DCF023DX-06BKK0	Orange	Plain			Yellow	Yellow		
DCF026DX-08BKL0	Orange	Orange	Orange		Orange	Plain	Plain	
DCF029DX-08BLL0	Orange	Orange	Orange		Plain	Plain	Plain	
DCF032DX-08BLM0	Orange	Orange	Orange		Plain	Plain	Yellow	
DCF035DX-08BMM0	Orange	Orange	Orange		Plain	Plain	Yellow	
DCF039DX-10BMS0	Orange	Orange	Orange	Orange	Orange	Plain	Plain	Plain
DCF044DX-12BSS0	Orange	Orange	Orange	Orange	Plain	Yellow	Yellow	Plain

Freecool Anti Vibration Mount Allocations Run / Standby Pump



= C of G

	L1	L2	L3	L4	R1	R2	R3	R4
DCF014SR-04AL00	Black	Plain			Black	Plain		
DCF017SR-04AM00	Black	Plain			Black	Plain		
DCF021SR-04BS00	Black	Orange			Orange	Plain		
DCF025SR-06BT00	Orange	Yellow			Orange	Yellow		
DCF013DR-04ACD0	Black	Orange			Black	Orange		
DCF014DR-04ADD0	Black	Orange			Orange	Orange		
DCF015DR-04ADF0	Black	Orange			Orange	Orange		
DCF016DR-04AJJ0	Black	Orange			Orange	Plain		
DCF018DR-04BJK0	Orange	Orange			Orange	Plain		
DCF020DR-06BFK0	Orange	Yellow			Plain	Yellow		
DCF023DR-06BKK0	Plain	Yellow			Plain	Yellow		
DCF026DR-06BKL0	Plain	Yellow			Yellow	Yellow		
DCF029DR-06BLL0	Plain	Yellow			Yellow	Yellow		
DCF032DR-08BLM0	Orange	Plain	Orange		Plain	Plain	Plain	
DCF035DR-08BMM0	Orange	Plain	Orange		Plain	Plain	Plain	
DCF039DR-10BMS0	Orange	Orange	Orange	Orange	Orange	Orange	Plain	Plain
DCF044DR-10BSS0	Orange	Orange	Orange	Orange	Orange	Plain	Plain	Plain
DCF014SX-04AL00	Black	Orange			Black	Plain		
DCF017SX-04AM00	Black	Orange			Black	Plain		
DCF021SX-06BS00	Orange	Yellow			Orange	Yellow		
DCF025SX-06BT00	Orange	Yellow			Plain	Yellow		
DCF013DX-04ACD0	Black	Orange			Orange	Plain		
DCF014DX-04ADD0	Black	Orange			Orange	Plain		
DCF015DX-04ADF0	Black	Orange			Orange	Plain		
DCF016DX-04AJJ0	Black	Orange			Orange	Plain		
DCF018DX-04BJK0	Orange	Orange			Plain	Plain		
DCF020DX-06BFK0	Plain	Yellow			Yellow	Yellow		
DCF023DX-06BKK0	Plain	Yellow			Yellow	Yellow		
DCF026DX-08BKL0	Orange	Plain	Orange		Plain	Plain	Yellow	
DCF029DX-08BLL0	Orange	Plain	Orange		Plain	Plain	Yellow	
DCF032DX-08BLM0	Orange	Plain	Orange		Plain	Yellow	Yellow	
DCF035DX-08BMM0	Orange	Plain	Orange		Plain	Yellow	Yellow	
DCF039DX-10BMS0	Orange	Orange	Orange	Orange	Orange	Plain	Yellow	Plain
DCF044DX-12BSS0	Orange	Orange	Plain	Orange	Plain	Yellow	Yellow	Plain

Installation Data

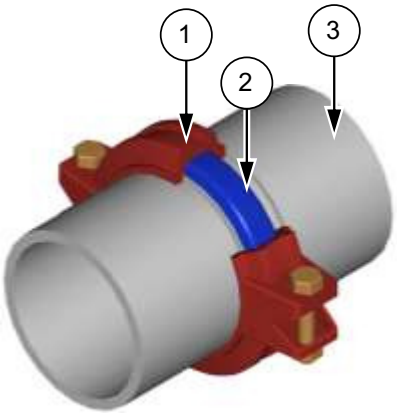
Water System

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

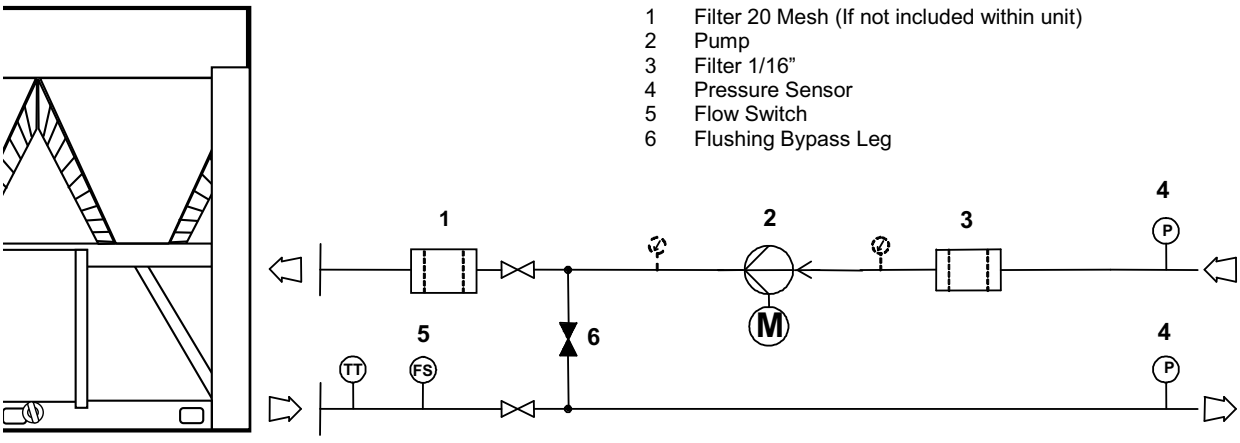
Standard Recommended Installation

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.

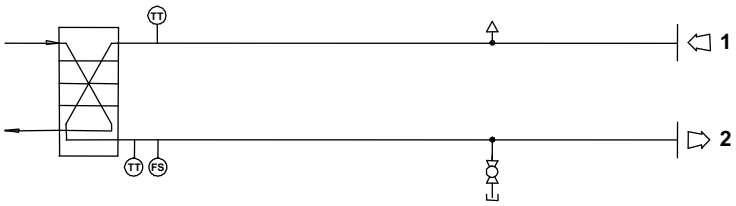
Do not rely solely on the BMS to protect the chiller against low flow conditions.

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)

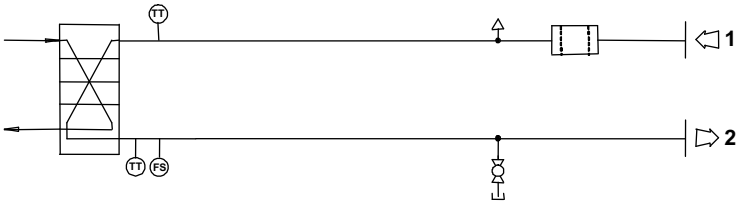


Installation Data

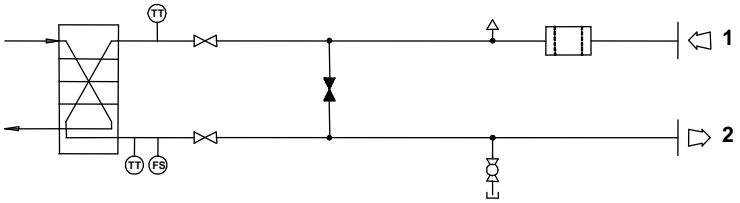
Optional Flow Schemes

Key: 1 Water In
2 Water Out

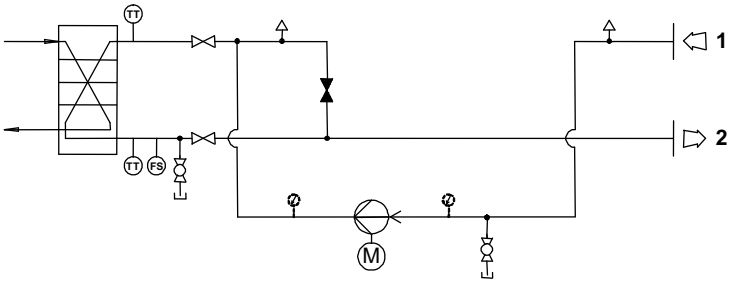
Filter Only Scheme - Comprises:
Standard Circuit plus:
Optional Extras:
- 20 Mesh Water Filter



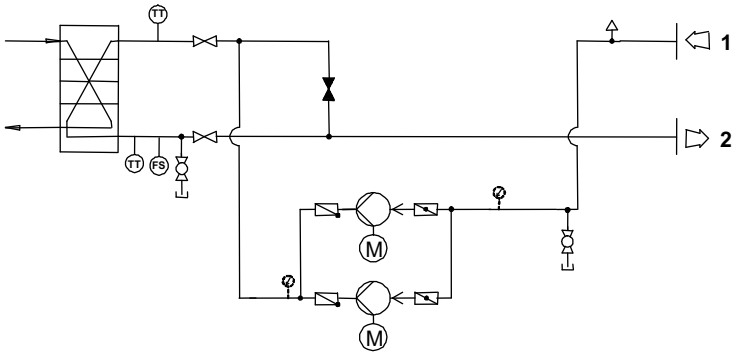
Filter - Flushing Bypass Scheme - Comprises:
Standard Circuit plus:
Optional Extras:
- 20 Mesh Water Filter
- Flushing Bypass Circuit



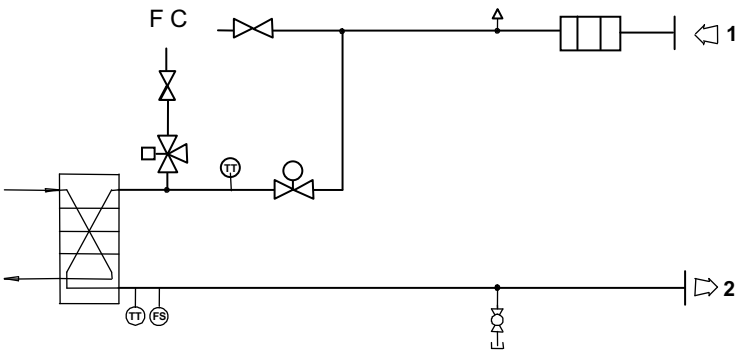
Single Head Pump Scheme - Comprises:
Standard Circuit plus:
Optional Extras:
- 20 Mesh Water Filter (supplied loose)
- Flushing Bypass Circuit
- Single Head Pump



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.

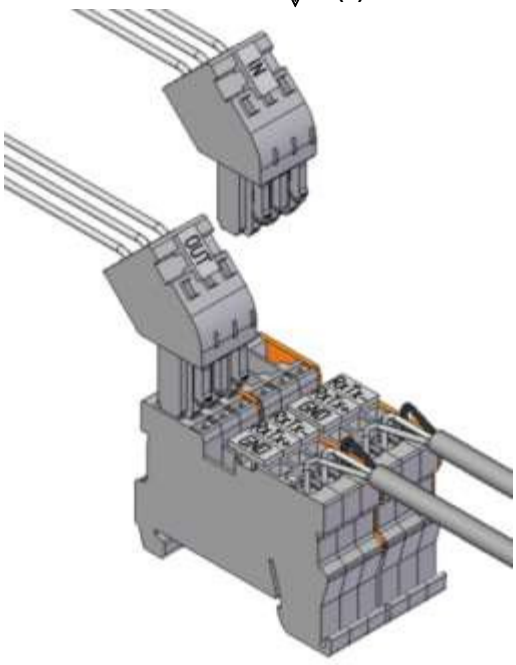
Ensure correct phase rotation.

Installation Data

Interconnecting Wiring

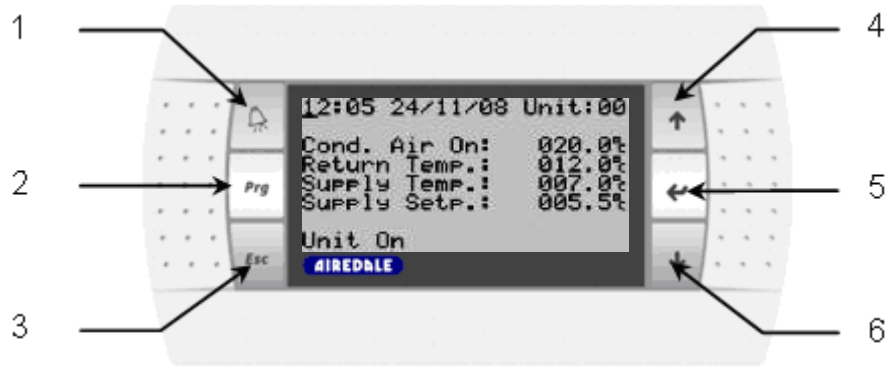
DCC22 / DCF22		L1	○	←		Mains incoming supply 400V/3PH/50Hz
		L2	○	←		
		L3	○	←		
		PE	○	←		
		L4	○	←		Separate Permanent Supply 230V/1PH/50Hz
		N1	○	←		
		PE	○	←		
		L4	○	→		External Trace Heating Connections
		N1	○	→		240V/500W max
		502	○	→		Unit Remote On/Off 24VAC
		505	○	←		
		502	○	→	(1)	**Evaporator 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	○	←	Non-Critical Alarm	Volt Free Common Alarm
		574	○	→		Volt Free Alarm N/O
		575	○	→		Volt Free Alarm N/C
		576	○	←	Critical Alarm	Volt Free Common Alarm
		577	○	→		Volt Free Alarm N/O
		578	○	→		Volt Free Alarm N/C
		RX-/Tx-	○	↔	IN	
		RX+/Tx+	○	↔		AIRELan Network Connections In
		GND	○	↔		
		RX-/Tx-	○	↔	OUT	
		RX+/Tx+	○	↔		AIRELan Network Connections
		GND	○	↔		

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



Controls

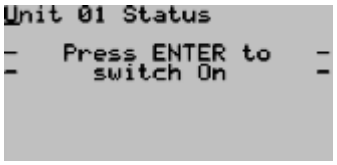
Use of Display Keypad Buttons



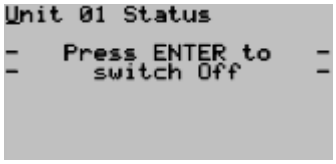
	1.	ALARM	When more than one alarm is active the ALARM button will illuminate red. Pressing the ALARM button once will indicate information regarding any active alarms. Pressing the ALARM button twice will reset any active alarms.
Prg	2.	PRG	Pressing the PRG button will select the main navigation menu.
Esc	3.	ESC	Pressing the ESC button will return the user to the main display screen showing unit status.
↑	4.	UP	Pressing the UP button can either: Scroll through the various display screens, providing the cursor is in the top left position. Increase the value of a set point adjustment.
↵	5.	ENTER	Pressing the ENTER button will confirm any set point adjustments and move the cursor to the next available set point.
↓	6.	DOWN	Pressing the DOWN button can either: Scroll through the various display screens, providing the cursor is in the top left position. Decrease the value of a set point adjustment.

Enabling the Unit

To turn the unit on press the Prg key to enter the program menu. Using the ↑ and ↓ keys select the Unit On/Off option and press ↵:



When ↵ is pressed the above screen will be shown. To turn the unit on simply press the ↵ key again and the screen will change:



One the screen has changed to the above press the Esc key which will return back to the main screen.

Unit Alarm Interrogation

Alarm Menu Display

Alarm Log

The alarm page offers a log of the last 150 alarm messages in a scrolling log, pressing the alarm button will enter the alarm page. Consequently the most recent alarm has the lowest log number (001) and will be displayed upon entering the alarm page. As another alarm occurs, the alarm number increases until 150 alarms have occurred. From this point on, alarm 001 moves to 002 and any new alarm will reside in position 001. As new alarms are generated and cleared, the highest number logs (150) in the scroll will be lost.

Viewing the Alarm Log

By using the arrow keys, the last 150 alarms generated can be reviewed in chronological order. The display provides the alarm type information and the time and date of each alarm occurrence.

Alarm Detection

When the controller detects an alarm an output is generated to the relevant alarm relay which in turn illuminates the button. To see which alarm has accrued press the button and the most recent alarm will be displayed. If the alarm light is on, the alarm page can be interrogated to identify which alarm is active.

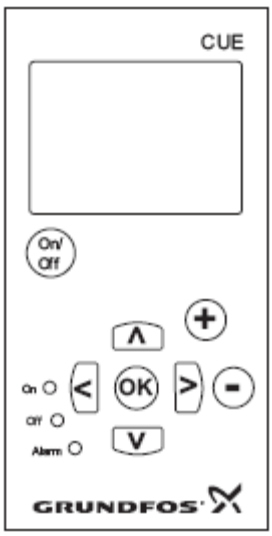
Resetting the Alarm

The auto reset alarms will automatically reset once the conditions are within the set parameters. To clear a manual alarm press the button twice and the red LED will disappear.

Erasing the Alarm Log

The alarm history log can be erased by selecting Erase Alarm Log in Manufacturer Parameters.

Pump Control Panel



Start-Up Guide

Use the start-up guide for the general setting of the CUE including the setting of the correct direction of rotation.
The start-up guide will be started the first time when the CUE is connected to supply voltage. It can be restarted in menu GENERAL. Please note that in this case all previous settings will be erased.

Editing buttons

Button	Function
On/ Off	Makes the pump ready for operation/starts and stops the pump.
OK	Saves changed values, resets alarms and expands the value field.
+ -	Changes values in the value field.

Navigating buttons

Button	Function
< >	Navigates from one menu to another. When the menu is changed, the display shown will always be the top display of the new menu.
∧ ∨	Navigates up and down in the individual menu.

Indicator lights

The operating condition of the pump is indicated by the indicator lights on the front of the control panel.
See fig. 49.

The table shows the function of the indicator lights.

Indicator light	Function
On (green)	The pump is running or has been stopped by a stop function.
	If flashing, the pump has been stopped by the user (CUE menu), external start/stop or bus.
Off (orange)	The pump has been stopped with the on/off button.
Alarm (red)	Indicates an alarm or a warning.

Commissioning Procedure

General To be read in conjunction with the commissioning sheets provided.

CAUTION **Please ensure all documents have been completed correctly and return to Airedale Technical Support immediately to validate warranty.**

Pre Commissioning Checklist

CAUTION **ALL work MUST be carried out by Technically Trained competent personnel.**

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

All pipework is complete and insulated where necessary.

Refrigerant standing pressure The refrigerant charge is to be checked to ensure correct refrigerant type. This is done by measuring the liquid line standing pressure and temperature. This can then be compared to refrigerant data tables or Comparator.

Standing pressures can only be measured in the liquid state.

The standing pressure of a system can identify if non condensable are present in the system.

IMPORTANT **Due to the boiling point of R410A refrigerant it is highly recommended that suitable Personal protective equipment (PPE) is used.**

Mains Power Mains power supply connected to chiller and electrically tested.
(The recommended mains fuse supply is indicated on the serial plate).

Permanent supply Each chiller also requires a 16 Amp single phase permanent supply (L4) as shown on the electrical wiring diagrams. Permanent power supply connected to chiller and electrically tested.

Pump Interlock 24Vac interlock cable for flow switch and/or pumps are sized correctly in order to eliminate voltage drops**. If the pump interlock is not wired back to the chiller then the visit will be aborted and the unit left isolated.**

Flow Switch A “paddle type” flow switch is fitted, wired to the chiller control panel and tested. This should be fitted on the **outlet** of the evaporator & before isolation valves.

Chiller water flow rate is correct with all air removed. The required flow rates can be obtained from SERVICE at AIREDALE. An Airedale technician may request water-balancing data prior to commencement of commissioning. To include condenser water flow rates where applicable

Glycol type **Please advise Glycol type and content**

Adequate heat load Adequate heat load is available in order to maintain the required water temperatures during commissioning.

Binder points Binder points should be fitted to both the flow and return pipework adjacent to the chiller evaporator.

Water strainer A water strainer must be fitted to the **inlet** side of the chiller evaporator. Failure to do so may result in severe damage and will void the AIREDALE warranty.

Crankcase heater The power supply to the compressor crankcase heaters must be switched on at least 24 hours prior to AIREDALE technicians’ attendance. **Please ensure the relevant internal MCB (MCB 3) is switched on and proven.**

Commissioning Procedure

Electrical	
Electrical connections	Ensure all electrical connections are tight and correctly terminated.
External fuses/ MCB's	Check that the correct electrical supply rating is available to the unit
Electrical continuity	Before electrical power is applied to the unit. Electrical continuity checks must be carried out on the 3 phase power.
Phase rotation	Check that the electrical phase rotation is correct. Components in the unit may malfunction with incorrect phase rotation.
Electrical earthing	Check that the unit is correctly earthed.
Remote on/off	To ensure that the unit does not start whist doing the pre-commissioning checks the remote on/off should be in the OFF state.
Voltage	Measure the voltage at the following points and record on the commissioning sheet • Voltage at busbar • Dedicated power supply • Voltage at permanent supply • Control voltage at transformer (min 22.5V, max 25V) The voltage measurements should be carried out with the unit MCB's turned off.

Commissioning Procedure

Waterside

General water pipework

Ensure that the system water pipework is clean from debris. If a flush and bypass circuit is included ensure that the system is flushed prior to water entering the unit.

Water filter fitted

Ensure that the water filter is fitted and clean.

Water flow rate

Check that the design water flow rate is available to the unit. If not available do not turn unit on.

Waterside pressure drop

Measure the waterside pressure drop of the unit ensuring that the pump (if fitted) is operating.

Glycol strength

Check and record the glycol type and strength. Low levels of glycol can cause freeze up problems when operating at low temperatures or during the unit off state during cold ambient conditions.

Glycol concentration is measured by use of a Refractometer.

Differential pressure sensor

Ensure that the differential pressure sensor operates satisfactory; the best way to do this is to reduce the flow to the Chiller.

- From pressure curves determine the design flow rate / pressure drop
- Make sure that any effects of glycol in the system are taken into account (Flowrate and pressure drop).
- Input into the controller the reduced pressure drop (kPa) value (Normally 80% of design flow rate)

Once this value is programmed into the controller the water flowrate can be reduced to verify that the low flow alarm is activated.

Ensure that the tubes connected to the sensor are insulated.

Pump interlock

Check that the pump interlock is fitted and functioning correctly.

Controls

Controller

Record on the commissioning sheet the controller serial numbers details.

- Controller type
- Address
- Serial number
- Bios
- Boot
- Strategy reference

Controller settings

The following controller settings are to be recorded on the commissioning sheet.

- Head pressure differential (bar)
- Minimum suction pressure (bar)
- Supply water set point (Summer/ Day) (°C)
- Supply water set point (Winter/ Night) (°C)
- Minimum supply water temperature (°C)

Commissioning Procedure

Refrigeration

Compressor

Record on the commissioning sheet compressor details

- Type
- Serial numbers
- Overload settings

Condenser fans

Record on commissioning sheets condenser fan details

- Type
- Size (kW)
- Serial number
- Controller type
- Running currents

The condenser fans can be operated manually through the controller ensuring correct operation before the refrigeration circuit is energised.

- Check rotation

Operating conditions

Record the following operating conditions of the unit at stable conditions.

- Suction pressure (bar)
- Liquid pressure (Bar)
- Discharge pressure (Bar)
- Suction temperature (°C)
- Liquid temperature (°C)
- Discharge temperature (°C)
- Superheat (°C)
- Sub cooling (°C)
- Water return temperature (°C)
- Water supply temperature (°C)

Liquid line sight glass

Record the status of the liquid line sight glass

- Clear/ flashing
- Wet/dry

The sight glass is used to indicate

- the condition of the refrigerant in the system
- lack of sub-cooling
- refrigerant deficiency
- Moisture content of the refrigerant

The colour of the sight glass depends on the moisture content of the refrigerant. The recommended moisture levels of a system should be between 30 and 75ppm.
An indication of green/dry are to be considered as perfect conditions meaning full protection by the filter drier against effects from moisture.

If the green colour starts to fade, the colour change from green to yellow has begun and the indicator should therefore be watched carefully. If the colour changes to yellow it is a clear signal that the capacity of the filer drier is exceeded and should be replaced as soon as possible.

Compressor oil level (Full load)

Check the compressor oil level at full load. (record oil level)

HP/ LP Safety Pressure Switch Settings

- Check operating of HP/LP cut-out,

Settings

- LP cut-out – (Auto reset for 3 times when the Low Pressure is detected over a period of 1 hour)
- Has a 2 minute delay on start-up (similar to a Low ambient kit)
- Low pressure cut-out – 0.5 +/- 0.2 Barg
- HP switch – (manual reset): High pressure switch – 40.25 bar +/- 1 Barg
- HP limiting function 40 barg / 2 barg differential (this reduces the number of compressors operating i.e. 3 comp, 2 comp and down to 1 comp.

Low supply water trip

To check operation of the low temperature trip the following procedure can be carried out.

With the unit running increase the low temperature limit to the actual supply water temperature.

This will trip the unit in a safe manner without risk of freezing the evaporator

Return the low temperature limit to correct value after test (this will allow the unit to operate correctly).

-

EC Fan interrogation

The EC fans can be interrogated by connecting a hardware interface kit to the fan and PC. The kit comprises of a USB to RS232 9-pin “D-type” adapter. This should be installed on the PC with the software supplied with the kit. The “COM” port of the USB to RS232 adapter should be assigned to a free COM port between COM 1 and COM 4 via the system device manager.

Connect the RS232 to RS485 interface converter to the USB port of your PC via the USB to RS232 serial interface lead and connect the RS485 output to the Fan.

Tx += RS A
Tx - = RS B
The switch on the RS232 to RS485 should be set to RS485.

Return completed commissioning sheets back to Airedale to validate warranty

Operational Maintenance checks

Owners Responsibility

To ensure that the chiller can be maintained correctly the following requirements are required.

- Maintain a safe working environment around the chiller, free from obstructions and debris.
- The unit shall follow the following maintenance regime as a minimum.

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

Ensure Lock off procedures is carried out accordingly.

If inverter driven pumps are used ensured at least 5 minutes is allowed for them to discharge any electrical charge.

Item	Task	Frequency		
Unit Inspection		3 Mths	12 Mths	60 Mths
General Inspections	Check for visible mechanical damage to unit.	●		
	Visually inspect the unit for general wear and tear, treat metalwork.	●		
	Rust should be inhibited, primed and touched up with matching paint.			
	Check for excess vibration from other rotating equipment.	●		
	Clean Micro Channel condenser coils. Do not steam clean use detergent and stiff bristled brush. For heavy dirt, use either a high pressure water with a broad spray pattern or a non acidic cleaner (Ph <10.5). Take care not to damage fins. Steam cleaning can cause dangerously high pressures in the system and is not recommended.	●		
Electrical Inspection	Check main power supply voltages		●	
	Check electrical terminals are tight.		●	
	Check for signs of hot spots/ discolouration on power cables.		●	
	Check amperages are as per design.	●		

Service tools / Test Equipment

- Voltmeter
- Screwdrivers/ Allen keys

Safety Equipment

- Safety Glasses/ Goggles

Item	Task	Frequency		
Refrigeration		3 Mths	12 Mths	60 Mths
	Compare the following and compare results with commissioning records.			
	Suction, Liquid and Discharge pressures.	●		
	Refrigeration system temperatures, Suction, Liquid and Discharge. Record superheat and sub cooling temperatures.	●		
	Check each circuit sight glass for dryness and bubbles for indication of leaks.	●		
	Remember to re-cap the Schrader connections!			
	Head pressure control is maintained.	●		
	Record details on F-Gas record.	●		
	Check compressor oil level	●		
	Pressure relief valves			●

Service tools / Test Equipment

- Refrigerant Manifold gauges
- Spanners
- Voltmeter

Safety Equipment

- Safety Glasses/ Goggles
- Gloves
- Overalls

Item	Task	Frequency		
Waterside		3 Mths	12 Mths	60 Mths
	Check pressure drop of water strainer. If excessive clean the strainer.		●	
	Visually inspect pipe and pipework insulation. Pipework clamps are secure.		●	
	Inspect for water leakage	●		
	Check pressure drop of evaporator. Clean evaporator if excessive.	●		
	Check condition of Water/ Glycol solution to ensure that the system is protected against corrosion, scale and microbiological fouling, ensuring maximum heat transfer efficiency.	●		
	The evaporator is constructed from ? Care must be taken in selecting cleaning solutions. Only approved chemicals must be used.			
System	**Check the following against the commissioning records.**			
	Record operating conditions.			
	Water on/ off temperatures	●		
	Water pressure drop	●		

Service tools / Test Equipment

- Spanners
- Manometer
- Thermometer

Safety Equipment

- Safety glasses/ goggles
- Gloves
- Overalls

Item	Task	Frequency		
Controls		3 Mths	12 Mths	60 Mths
	Change controller battery		●	
	The controller will keep the strategy for a short period of time with no battery.			

Service tools / Test Equipment

- Small terminal Screwdriver

Safety equipment

- Electrostatic Wristband

pLAN Termination

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

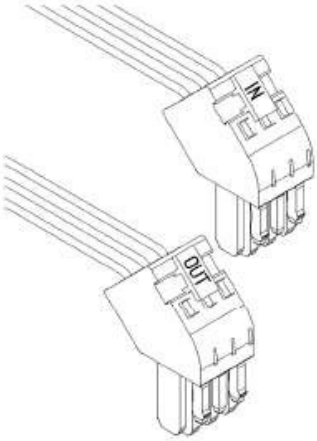
CAUTION

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

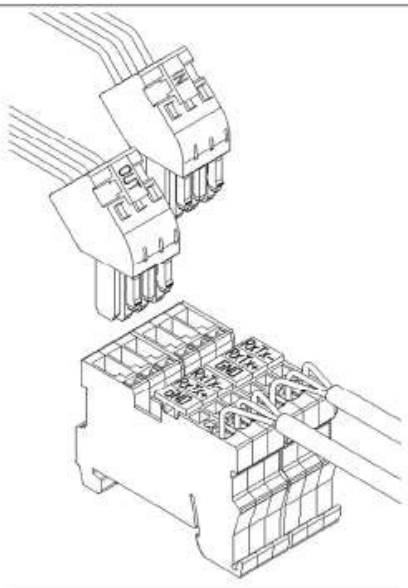
Airedale International Air Conditioning Ltd

Leeds Road, Rawdon, Leeds. LS19 6JY England
Tel: + 44 (0) 113 239 1000
Fax: + 44 (0) 113 250 7219
E-mail: enquiries@airedale.com
Website: www.airedale.com

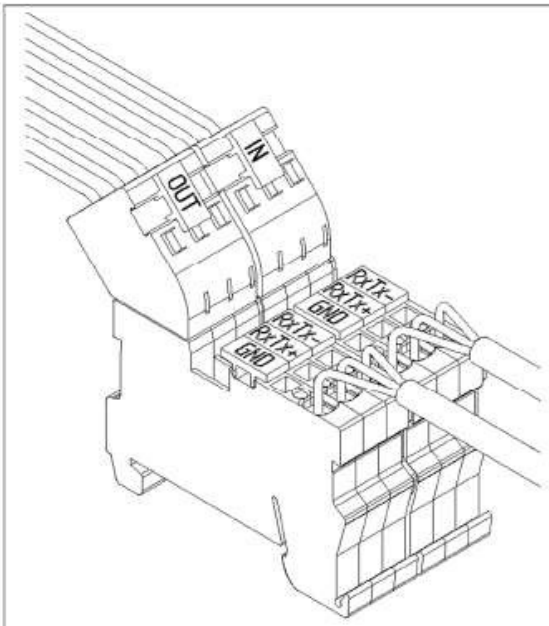
1. Disconnect power to the control circuit before wiring the pLAN connection.



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 Advice

Microchannel Condenser Coil Cleaning	Clean Micro Channel condenser coils. Do not steam clean use detergent and stiff bristled brush. For heavy dirt, use either a high pressure water with a broad spray pattern or a non acidic cleaner (Ph <10.5).

Troubleshooting

FAULT	POSSIBLE CAUSE	REMEDY/ACTION
General		
Unit Will Not Start	No power.	Check power supply to the controller.
	Wired incorrectly.	Check wire connections in accordance with wiring diagram.
	Loose wires. Remote on/off	Check all wires, connections, terminals etc. Check that the remote on/off is at the on position.
Refrigeration		
Compressor not operating	No power to compressor.	Check isolator, fuses, MCBs, contactor and control circuit wiring.
	Low pressure cut-out operated (large or complete loss of refrigerant charge).	Recover refrigerant, repair, evacuate and recharge system.
	Compressor showing fault on controller	Determine fault, refer to alarm codes for further information.
Head Pressure too high/HP cut-out operated	Condenser coil clogged or dirty. Overcharge of refrigerant. Normally troublesome in warm weather.	Clean condenser. Remove excess refrigerant from system using correct refrigerant handling techniques.
	Air or other non-condensable gas in system.	Evacuate system and re-charge with new refrigerant.
	Head pressure controller faulty.	Check EC fan control module - if faulty - replace.
	Fan not operating or operating inefficiently.	Check motor - if faulty - replace.
Head pressure too low	Fan operating too fast in low ambient conditions.	Check EC fan control module - if faulty - replace.

Troubleshooting

FAULT	POSSIBLE CAUSE	REMEDY / ACTION
Suction Pressure too low	Flash gas (bubbles in sight glass) at liquid line.	Investigate for refrigerant leaks, repair and re-charge system.
	Clogged filter drier (pressure / temperature drop across it).	Replace drier cores
Condenser		
Condenser fan not operating - power on	Power supply failure.	Check power supply at circuit breaker.
	Wiring to motors.	Check voltage at motor terminals.
	Motor / fan assembly jammed.	Isolate unit and check free rotation of motor/fan assembly. If faulty - replace.
	Motor internal overheat protector tripped.	Carry out continuity check at terminals “TK” in motor terminal box. If tripped and motor hot - check to see if the motor bearings have seized/ fan difficult to turn. If tripped and motor cold - replace motor.
	Faulty motor windings/capacitor.	Motor humming would indicate fault in motor or capacitor. Check windings for continuity and if OK replace capacitor.
	Minimum speed set too low.	Adjust head pressure controller to suit.
Condenser fan runs too fast	High ambient condition or excessive re-circulation of air around condenser coil.	Check installation against design.
	Minimum set speed setting incorrect.	Adjust as necessary.
	Incorrect pressure sensor setting.	Adjust via microprocessor.
	Faulty EC fan	Replace fan
	Faulty pressure sensor.	Replace sensor.
Condenser fans runs only slowly	Incorrect pressure setting.	Adjust via microprocessor.
	Faulty EC fan.	Replace fan.
	Faulty Pressure sensor.	Replace sensor.
	Motor/capacitor faulty.	Replace.
	Motor wired incorrectly.	Check against wiring diagram - correct as required.

Troubleshooting

FAULT	POSSIBLE CAUSE	REMEDY / ACTION
Waterside		
Pump not operating	No power to pump	Check isolator, fuses, MCBs, contactor and control circuit wiring.
	Inverter tripped and does not auto reset (the microprocessor will try and auto reset 3 times)	Reset inverter drive via microprocessor
No water flow	Strainer blocked	Clean strainer
Pump noisy	Air in water system	Purge air from water system
	Pump cavitations	Ensure there is 0.5m NPSH suction head to avoid cavitations.
Unit not operating due to water pressure sensor low limit alarm.	Low flow alarm operating	Check that the low flow pressure variable is set correctly. If too high the unit may have nuisance trips.
Low temp limit alarm	Partial blockage in evaporator causing low flow. The water flow is reduced however the differential pressure switch still remains healthy as the pressure would increase.	Ensure that the water strainer and evaporator are clean.
	No heat load on system	Ensure there is design cooling load.
Water/ Glycol freezing up (crystallizes)	Insufficient glycol/water concentration for operating temperatures.	Check glycol concentration and add accordingly.

Unit Alarms

Code	Description	Auto Reset (Yes/No)	Unit Disabled (Yes/No)	Component Disabled (Yes/No)	Cause	Action
AL001	Power Meter MB Offline	Yes	Yes	Yes	Communication to the Power Meter has been lost	Check: Wiring / Modbus card / Power Meter
AL002	EVD1 pLAN Offline	Yes	No	Yes	Communication to the EVD Driver has been lost	Check: Wiring / pLan Connection / Address
AL003	EVD2 pLAN Offline					
AL004	Cond. Pressure1 Fault	Yes	No	Yes	The Sensor has gone out of its operating range	Check: Wiring / Sensor
AL005	Cond. Pressure2 Fault		No			
AL006	Evap.Diff.Press. Fault		Yes			
AL007	Return Temp. Fault					
AL008	Supply Temp. Fault		Yes			
AL009	Temp. Setpoint Fault		No			
AL010	Cond.Air On Temp Fault		No			
AL011	Clock Alarm	Yes	No	Yes	The internal clock has malfunctioned	Replace Battery
AL012	Emergency Stop	Yes	Yes	Yes	The emergency stop button has been pressed	Release the emergency stop button
AL013	Phase Failure	Yes	Yes	Yes	The 3 phase power supply crossed / loss (wait 30s with a power meter on power up)	Check 3 phase connection
AL014	Evaporator Flow Alarm	Yes	Yes	Yes	No water flow has been detected	Check: pumps are running / flow sensor
AL015	Low Pressure 1 Switch	Yes	No	Yes	The pressure in the system is below 0.5 bar	Check: Refrigerant charge / EEV operation
AL016	Low Pressure 2 Switch					
AL017	Cct1 Comp1 Status Al.	Yes	No	Yes	Contactor has been switched on but has failed to operate	Check: High Pressure Switch / contactor. / Wiring.
AL018	Cct1 Comp2 Status Al.					
AL019	Cct1 Comp3 Status Al.					
AL020	Cct2 Comp1 Status Al.					
AL021	Cct2 Comp2 Status Al.					
AL022	Cct2 Comp3 Status Al.					
AL023	Pump1 Status Alarm		Yes	Yes	Contactor has been switched on but has failed to operate	Check: High Pressure Switch / contactor. / Wiring.
AL024	Pump2 Status Alarm					
AL025	Low Supply Temperature	Yes	Yes	Yes	The supply water temperature is too low	Check: Flow Rate / Unit TD
AL026	High Cond. Pressure 1	Yes	No	Yes	The condensing pressure is higher than 40.0Bar	Check: Condenser / Condenser Fans
AL027	High Cond. Pressure 2					
AL028	pCOe Module Offline	Yes	No	Yes	Communication to the pCOe expansion module has been lost	Check: Communications link / Wiring
AL029	S1 Probe Fault EVD1		No	Yes	The Evaporator pressure probe is out of range	Check: Pressure probe / Wiring

Code	Description	Auto Reset (Yes/No)	Unit Disabled (Yes/No)	Component Disabled (Yes/No)	Cause	Action
AL030	EEPROM Fault EVD1		No	Yes	There has been mismatch with between data in the EVD and the controller	Reset the alarm / Replace EVD if necessary
AL031	EEV Motor Fault EVD1		No	Yes	The stepper motor has malfunctioned	Check: Motor / Wiring
AL032	MOP Alarm EVD1		No	Yes	The Evaporating temperature has exceeded the MOP limit	The valve will close to reduce operating pressure
AL033	LOP Alarm EVD1		No	Yes	The Evaporating temperature has exceeded the LOP limit	The Valve will open to increase operating pressure
AL034	Low Superheat EVD1		No	Yes	The superheat in circuit 1 is low	Check: EEV Settings
AL035	S2 Probe Fault EVD1		No	Yes	The Evaporator Temperature probe is out of range	Check: Temperature probe / Wiring
AL036	High Superheat EVD1		No	Yes	The superheat in circuit 1 is high	Check: EEV Settings
AL037	S1 Probe Fault EVD2		No	Yes	The Evaporator pressure probe is out of range	Check: Pressure probe / Wiring
AL038	EEPROM Fault EVD2		No	Yes	There has been mismatch with between data in the EVD and the controller	Reset the alarm / Replace EVD if necessary
AL039	EEV Motor Fault EVD2		No	Yes	The stepper motor has malfunctioned	Check: Motor / Wiring
AL040	MOP Alarm EVD2		No	Yes	The Evaporating temperature has exceeded the MOP limit	The valve will close to reduce operating pressure
AL041	LOP Alarm EVD2		No	Yes	The Evaporating temperature has exceeded the LOP limit	The Valve will open to increase operating pressure
AL042	Low Superheat EVD2		No	Yes	The superheat in circuit 2 is low	Check: EEV Settings
AL043	S2 Probe Fault EVD2		No	Yes	The Evaporator Temperature probe is out of range	Check: Temperature probe / Wiring
AL044	High Superheat EVD2		No	Yes	The superheat in circuit 2 is high	Check: EEV Settings
AL045	Leak Detector 1 Fault	Yes	No	Yes	The output from the leak detector is out of range	Check: Leak detector / Wiring
AL046	Leak Detector 2 Fault					
AL047	Possible Leak Circ.1	Yes	No	No	The reading from the leak detector is above the threshold	Check: Pipe work around the leak detector
AL048	Possible Leak Circ.2					
AL049	Cct1 Hours Limit Comp1	Yes	No	No	The hours run for the compressor has exceeded the threshold	If component is functioning correctly perform maintenance and reset hours
AL050	Cct1 Hours Limit Comp2					
AL051	Cct1 Hours Limit Comp3					
AL052	Cct2 Hours Limit Comp1					
AL053	Cct2 Hours Limit Comp2					
AL054	Cct2 Hours Limit Comp3					

Code	Description	Auto Reset (Yes/No)	Unit Disabled (Yes/No)	Component Disabled (Yes/No)	Cause	Action
AL055	Hours Limit Pump 1	Yes	No	No	The hours run for the pump has exceeded the threshold	If component is functioning correctly perform maintenance and reset hours
AL056	Hours Limit Pump 2					
AL057	CW Valve Feedback	Yes	Yes	Yes	Valve Failed to open	Check: Valve operation / Wiring
AL058	Low Suction Pressure 1	Yes	No	Yes	The suction pressure has exceeded the low limit during operation	Check: Evaporator flow rate / Unit TD / Refrigerant charge
AL059	Low Suction Pressure 2					
AL060	pLAN Network Alarm	Yes	No	No	Chiller controller has lost communication with sequence controller	Check: Wiring / pLan Connection / Address
AL061	Oil Pre-Heat Delay	Yes	Yes	Yes	Follows a controller power restart and indicates time delay before compressors restart	No action necessary
AL062	Cct1 Diff. Pressure	Yes	No	Yes	The compressor differential pressure limits have been exceeded	Check: Evaporator flow rate / Unit TD / Refrigerant charge
AL063	Cct2 Diff. Pressure					
AL064	Possible Leak Unit	Yes	No	No	The reading from the leak detector is above the threshold	Check: Pipe work around the leak detector
AL065	Evap.Inlet Temp. Fault	Yes	Yes	Yes	The Sensor has gone out of its operating range	Check: Wiring / Sensor
AL066	Circuit 1 Disabled After Pumpdown	No	No	Yes	The circuit has been pumped down following a possible refrigerant leak or manual pumpdown request and disabled	Investigate reason for pumpdown and reset
AL067	Circuit 2 Disabled After Pumpdown					

Pump Warning and Alarm List

Code	Code and display text	Status: Warning	Status: Alarm	Status: Locked Alarm	Operating Mode	Re-setting
1	Too high leakage current			●	Stop	Man.
2	Mains Phase Failure		●		Stop	Auto
3	External fault		●		Stop	Man.
16	Other Fault		●		Stop	Auto
				●	Stop	Man.
30	Replace Motor bearing	●			-	Man. [3]
32	Overvoltage	●			-	Auto
			●		Stop	Auto
40	Undervoltage	●			-	Auto
			●		Stop	Auto
48	Overload		●		Stop	Auto
				●	Stop	Man.
49	Overload		●		Stop	Auto
55	Overload	●			-	Auto
					Stop	Auto
57	Dry Running		●		Stop	Auto
64	Too high CUE temperature		●		Stop	Auto
70	Too High Motor temperature		●		Stop	Auto
77	Communication fault, Duty / standby	●			-	Auto
89	Sensor 1 outside range		●		1)	Auto
91	Temperature sensor 1 outside range	●			-	Auto
93	Sensor 2 outside range	●			-	Auto
96	Setpoint signal Outside range		●		1)	Auto
148	Too high bearing temperature	●				Auto
			●		Stop	Auto
149	Too high bearing temperature	●				Auto
			●			Auto
155	Inrush fault		●			Auto
175	Temperature sensor 2 outside range	●			-	Auto
240	Relubricate motor bearings	●			-	Man. [3]
241	Motor phase failure	●			-	Auto
			●		Stop	Auto
242	AMA did not succeed [2]	●			-	Man.

1) in case of an alarm, the CUE will change the operating mode depending on the pump type
2) AMA, Automatic Motor Adaption
3) Warning is reset in display 3.20

Warning
The CUE will continue the operation as long as the warning is active. The warning remains active until the cause no longer exists. Some warnings may switch to alarm condition if the warning has been present for a period.

Alarm
In case of an alarm, the CUE will stop the pump or change the operating mode depending on the alarm type and pump type. Pump operation will be resumed when the cause of the alarm has been remedied and the alarm has been reset.

Resetting an alarm manually

- Press OK in the alarm display
- Press On/ Off twice
- Activate a digital input DI 2 – DI 4 set to “Alarm reset” or the digital input DI (start/ stop)

If it is not possible to reset an alarm, the reason may be that the fault has not been remedied, or that the alarm has been locked.

Locked alarm
In case of a locked alarm, the CUE will stop the pump and become locked. Pump operation cannot be resumed until the cause of the locked alarm has been remedied and the alarm has been reset.

Resetting a locked alarm

- Switch off the power supply to the CUE for approx 30 seconds
- Switch on the power supply, and press the OK in the alarm display to reset the alarm.

Head Office:

Airedale International Air Conditioning Ltd
Leeds Road
Rawdon
Leeds LS19 6JY
United Kingdom

Tel: **+44 (0) 113 239 1000**
Fax: +44 (0) 113 250 7219

e-mail: ***enquiries@airedale.com***
website: ***www.airedale.com***

A MODINE Company

SYSTEMY HVAC Sp. z o.o.
ul.Rydygiera 8, 01-793 Warszawa
tel.: +48 22 101 74 00
fax: +48 22 101 74 01
e-mail: biuro@systemy-hvac.pl
www.systemy-hvac.pl

PART NO:	ISSUE
(TM E)	
V1.0.0	10/2010
V1.2.0	01/2011
V1.3.0	04/2011
V1.4.0	06/2011
V1.5.0	06/2011
V1.6.0	10/2011
V1.7.0	04/2012
V1.8.0	09/2012
V1.9.0	12/2013