



DeltaChill[™] & **DeltaChill** FreeCool

110 - 1010kW

- ESEER up to 4.88
- + Up to 38% more cooling kW/m²
- Free-cooling models spend up to 95% of the year in free-cooling



























Pushing the boundaries

Chiller technology, offering more for less

DeltaChill is an air cooled R410A scroll chiller offering a FreeCool variant and a wide span of cooling

capacities from 110 to 1010kW.

An extremely energy efficient and compact chiller, the DeltaChill combines quiet, cost effective scroll compressors and the latest fan technology applied in a modular V-frame coil design. In all models, microchannel heat exchangers lift efficiency even higher, whilst still minimising space claim.

282 models, exceptional flexibility, tailored exactly to your application allowing unit selection to be optimised for efficiency or footprint



ESEER part load efficiencies are enhanced by sequenced scroll compressors; optional EC fans and the lower airside pressure drop of microchannel heat exchangers*







Microchannel heat exchanger

38% more cooling kW/m²*

High surface area gives increased heat transfer and lower airside pressure drop at lower fan powers; the slim, light profile reduces weight / space claim

* than our previous generation compact free-cooling chillers



Modular V-frame

More condenser area per footprint

Vastly improves heat exchange, giving better performance and control particularly at part load; also facilitates maintenance



Scroll compressor sets

More precise capacity match

Quiet and cost effective, a choice of two or three refrigeration circuits offer up to 9 stages of cooling, for reduced operating



EC fans

Up to 80% more efficient*

Electronically commutated axial fans give increased performance for reduced power input

* than an AC fan at part load; EC fans are standard throughout the range



Inverter controlled pump*

Smart water flow control

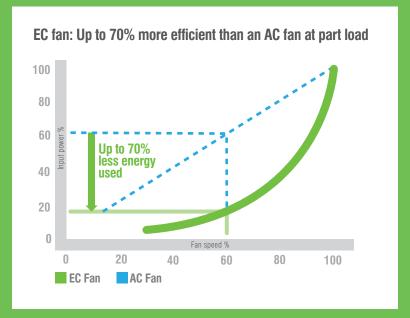
Speeds up and down to maintain the design flow rate and offers low flow rate protection

* optional

Up to 70% energy savings*

Speed controlled EC (electronically commutated) axial fans have very low air flow resistance and respond seamlessly to load fluctuations

 * than an AC fan at part load; EC fans are standard throughout the range

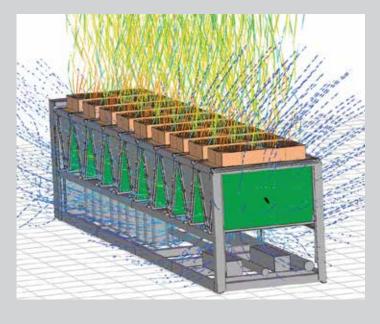


Reducing operating costs & carbon footprint

By selecting the DeltaChill, you are investing in a chiller that significantly reduces running costs and carbon footprint. The 135 – 1010kW DeltaChill FreeCool spends up to 95% of the year in free-cooling. During any mechanical cooling, the DeltaChill has excellent part load efficiencies, ensuring no power is wasted. Typically in cooling applications, load conditions dictate that a chiller only operates at full load for 3% of the year.

Class A EER* up to 3.46

*EER (Energy Efficiency Ratio) @ at 7/12°C water and 35°C ambient



determine the optimum fan and heat exchanger size and the best distribution and total airflow through the V - block to minimise power consumption

Free-cooling

For over 95% of the year

Free-cooling saves vast amounts of energy, particularly when room temperatures are high. For free-cooling to operate, the temperature difference between the ambient air and hot return water can be as little as 1°C.

Concurrent free-cooling

The system controls constantly monitor the temperature differences and will only switch on the mechanically-driven compressor when extra cooling is needed, introducing concurrent free-cooling - a mixture of free-cooling and/or mechanical cooling. Concurrent free-cooling enables free-cooling to be captured whenever the ambient is below the return water temperature.

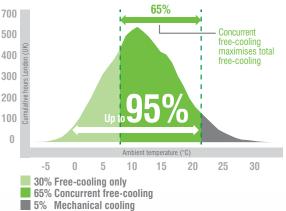
Up to 109% of nominal capacity in free-cooling

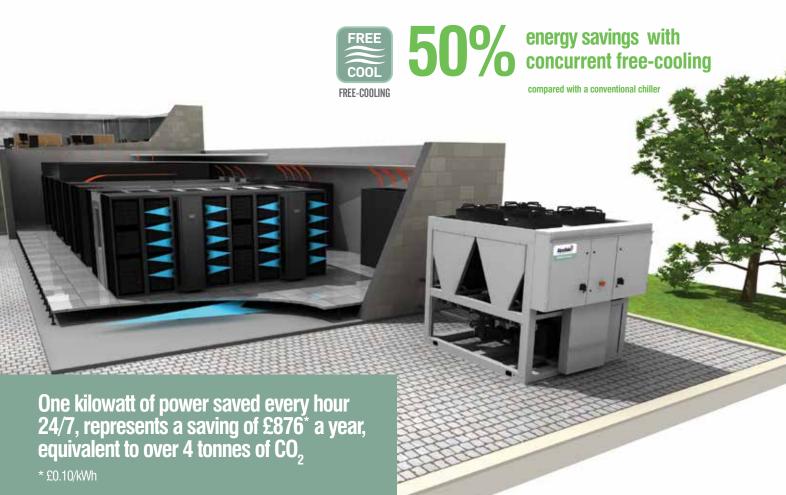
By matching compact microchannel heat exchangers with free-cooling coils, Airedale has achieved up to 109% of nominal cooling in free-cooling in the highest efficiency models, significantly reducing operating costs throughout the chiller's lifetime.

Using heat to increase free-cooling

A high water temperature capability of up to 17°C supply water temperature, raises the free-cooling threshold of all free-cooling models including the more compact variants. When linked with an air handling unit or rack-mounted unit in a 24/7 data centre with a typical room temperature of 24°C, over 95% of the year can be spent with free-cooling active (cumulative hours, London, UK).

Up to 95% of the year spent in free-cooling





Best energy balance

For all operating conditions

The cutting edge technology applied to the DeltaChill, driven by smart controls algorithms, enables the chiller to give the best energy balance for all operating conditions, whether it is sending chilled water into clean rooms, data centres, process plants or comfort applications such as office, retail or leisure environments.

DeltaChill - optimising the key drivers in efficient building operation:

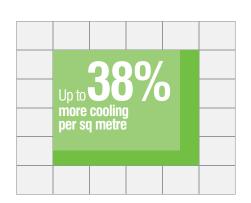
- ✓ Excellent part load performance
- ✓ Quiet or Extra Quiet options
- ✓ Quality and reliability
- ✓ Minimum space claim
- ✓ Easy maintenance

Sound levels reduced by:

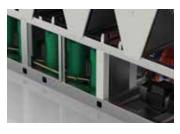
- Optimised setpoint management, particularly during part load operation
- Scroll compressors with enclosures
- · Reduced fan speed in Extra Quiet models
- Use pad type sump heater
- Minimised vibration

Minimum space claim

DeltaChill typically offers up to 38% more cooling kW/m² than our previous generation compact free-cooling chillers

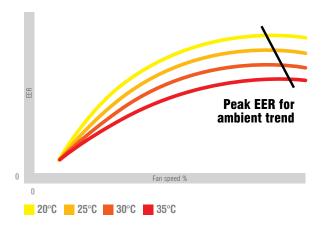


Easy maintenance facilitated by microchannel heat exchangers and V-frame fan-coil module



Optimised setpoint management

Fans are modulated to achieve the optimum efficiency (peak EER) for the unit at any ambient temperature, as well as reducing sound.



BREEAM

BREEAM* aims to reduce life cycle impacts of new buildings on the environment by awarding points.

Virtually the entire DeltaChill range will contribute to a building achieving an additional 2 points:

1 point: Direct Effect Life Cycle (DELC) CO₂ equivalent emissions of ≤1000 kgCO₂e/kW cooling capacity

Airedale is constantly developing its chiller technology to reduce the level of refrigerant or GWP in the system.

Microchannel coils significantly reduce refrigerant charge – a critical factor in the DELC calculation.

1 point: Leak detection plus automatic shutdown and pump down of refrigerant

Leak detection and refrigerant pump down are available as a combined option in the entire DeltaChill range. During automatic pump down, the performance of the unit is entirely unaffected.

*BREEAM's New Construction Scheme Section 12 POL01

Intelligent controls

Seamlessly managing your system



The control centre of each of our cooling systems is a sophisticated electronic microprocessor specially developed by Airedale.

The microprocessor uses sensors to send and receive messages to and from active components such as compressors, fans and pumps so they interact with each other, balancing cooling duty, temperature, air flow and pressure to exactly match the application.

By integrating intelligent components, the controller manages and optimises the system's performance and reduces power draw.

Smart networking solutions:

Fully-programmable via the control panel's user-friendly display, the microprocessor can be linked with all standard BMS protocols to:



Trigger alarm messages



Send alarm/service messages via email or SMS using an interface



Operate time scheduling



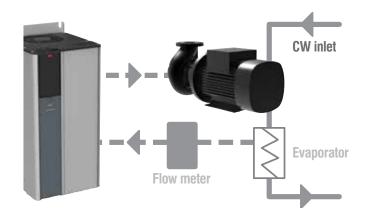
Allow adjustment of temperature setpoints

Sequencing chillers for more free-cooling

The sequencer integrates between two and eight chillers into a single, seamless operating system pre-programmed to run as master/slave or run/standby. On sites with an air cooled and a free-cooling chiller, the sequencer optimises the units according to ambient temperature so when the ambient is low, the free-cooling chiller is the first to start up.

Smart water flow control

With an optional inverter-driven pump, significant energy savings can be made by running the pump to achieve exactly the right flow for the application. Coupled with electronic flow monitoring it also offers low flow rate protection and simplifies commissioning.



Staged cooling

Staged cooling on equal hour's run enables capacity to more precisely match the application and ensure even wear of the system.



Building management

Taken to another level

ACIS building management system developed by Airedale, enables you to manage smart cooling and other building services, from any manufacturer, in a single, integrated system across multiple sites and communication protocols.

ACIS sits at the front end of a building system, putting you in control of reducing operating costs.

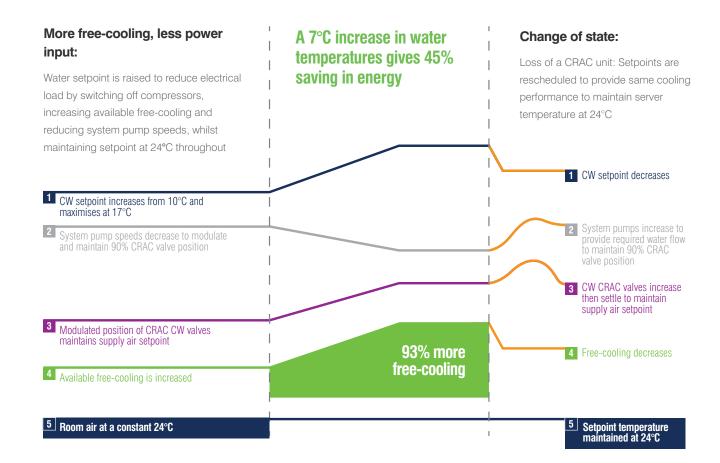
With the click of a button on a PC, tablet or phone, valuable and intelligent information can be pulled back automatically for remote 24/7 monitoring and maintenance; enhanced system operation and improved decisions.



System optimisation increases free-cooling threshold

Data centre example

ACIS monitors all critical aspects of the chilled water (CW) system, optimising performance and ensuring supply air temperature to servers is unaffected. ACIS identifies problems via alarm and history logging and implements change of state scenarios.



Specifications at a glance

Configuration flexibility and a choice of 282 models allow selection of the optimum specification in terms of capacity, pump sets, energy efficiency and sound - making the DeltaChill ideal for cooling diverse applications.





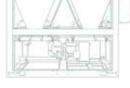


Energy-saving

- EC fans as standard deliver ESEERs up to 4.88 Polymer-coated microchannel coils for reduced life cycle costs and reduced footprint
- Compact footprint: Up to 38% more cooling per m²
- Electronic Expansion Valves increase ESEER by 30%
- Optimised head pressure set point management achieving optimum EER

Optional

- High airflow EC fans (DCF Regular Quiet models)
- Variable supply water temperature control to save power and raise the free-cooling threshold
- Chiller Sequence Manager integrates 2 to 8 chillers into a single, efficient operating system
- Energy Manager for local and remote energy analysis and monitoring



Hydronics

- Single and standby pumps for resilience
- Grooved water connections for simple, quick installation
- High water temperature capability; up to 14°C (DCC) and 17°C supply water (DCF)

Optional:

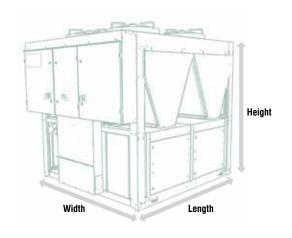
- Inverter-driven pumps enabling exact water flow control for the application
- Regulating or flushing bypass for enhanced resilience and maintenance
- Flow switch
- Glycol dosing pot to facilitate commissioning and maintenance
- Water filter safeguarding performance

Environment

- Free-cooling at up to 109% of nominal capacity for reduced operating costs and carbon footprint (DCF)
- Optimised for R410A which only requires a minimum refrigerant charge and has a high heat transfer coefficient
- Low sound ranges: Quiet (R) and Extra Quiet
- Sequenced scroll compressors minimise sound and allow capacity to more precisely match the application
- Latest axial fan technology for reduced sound and power input

Optional:

- Leak detection system for F Gas compliance
- Automatic refrigerant pump down in the event of a refrigerant leak, which together with leak detection, qualifies the DeltaChill for one BREEAM point
- Compressor enclosure minimising sound



Case size	No. of fans	Height (mm)	Width (mm)	Length (mm)
1	4	2612	2200	2554
2	6	2620	2200	3690
3	8	2620	2200	4820
4	8	2682	2200	4846
5	10	2620	2200	5956
6	10	2682	2200	5978
7	12	2620	2200	7090
8	12	2682	2200	7110
9	14	2682	2200	8242
10	16	2682	2200	9374
11	18	2682	2200	10506
12	20	2682	2200	11638
13	22	2682	2200	12770

EU F-Gas Regulations

This product range contains R410A fluorinated greenhouse gas with a GWP of 2088, charge ranging between 13.0 - 87.0kg, representing 27.1 - 181.6 equivalent tonnes of CO₂.

	Example	DC	F	080	T	R-	14
DC	DeltaChill						
C F	C - Air cooled chiller F = Free-cooling chiller						
XXX	Nominal capacity (kW/10)						
D T	Number of circuits Dual circuit Triple circuit						
R- X-	Noise variant Regular Quiet Extra Quiet						
04 - 22	Number of fans						



Mechanical

- 110-940 kW (DCC) and 135-1010 kW (DCF nominal cooling capacities
- 151 models (DCC) and 131 models (DCF)
- Single, dual or triple independent refrigeration circuits, allowing 2 9 stages
 of cooling
- Operation up to 40°C ambient at full load, 45 °C at reduced load
- Modular 'V'-frame coil-fan arrangement for improved part load performance and control
- Up to 38% more cooling/m²
- Large surface area, corrosion-resistant microchannel condenser coils for enhanced heat exchange
- Standard or extended plenum for improved sound/aesthetics
- Plate evaporator requires minimum refrigerant charge (model dependent)
- Shell and tube evaporator simplifying maintenance (model dependent)
- Easy access to components

Optional:

· Anti-vibration mounts



Electrical & Controls

- Advanced Airetronix controls technology
- Electrical supply phase rotation protection
- Accessible control panel, even when unit is operational
- Separate, modular sections in control panel for isolation of specific component for greater resilience and easier maintenance (model dependent)
- Modem link for remote monitoring

Optional

- Rain hood with integrated light offering shelter when panel doors are open (model dependent)
- Low ambient kit for use in ambient temperatures as low as -30°C (model dependent)
- Electronic soft start for minimal full load current
- Active power factor correction (model dependent)
- Power monitoring to manage energy consumption
- Single point of isolation for ease of maintenance (model dependent)

DeltaChill technical specifications

Case size	DCC	No. of circuits	Nominal cooling (kW) ¹	EER ²	ESEER ³	Sound pressure @ 10m (dBA)
	Regular Quiet					
I fan case - size 1: (mm):	DCC011SR-04	1	111	3.42	4.53	56.2
612 (H) x 2200 (W) x 2554 (L)	DCC011DR-04	2	112	3.46	4.28	56.2
	DCC013DR-04	2	124	3.44	4.38	56.5
	DCC014SR-04	1	134	3.35	4.45	56.8
	DCC014DR-04	2	134	3.38	4.15	56.7
	DCC016DR-04	2	161	3.20	4.47	54.1
	DCC017SR-04	1	166	3.11	4.13	63.9
	DCC018DR-04	2	185	3.03	4.40	57.9
	DCC021SR-04	1	194	3.03	4.49	59.0
	DCC021DR-04	2	213	2.95	4.17	59.9
	DCC023SR-04	1	238	2.75	4.13	65.8
	DCC024DR-04	2	233	2.88	4.20	60.2
	DCC027DR-04	2	250	2.80	4.05	60.4
fan case - size 2: (mm):	DCC020DR-06	2	197	3.33	4.29	62.0
620 (H) x 2200 (W) x 3690 (L)	DCC022DR-06	2	220	3.26	4.51	59.2
	DCC024SR-06	1	247	3.05	4.44	65.5
	DCC025DR-06	2	242	3.20	4.56	59.6
	DCC028DR-06	2	262	3.13	4.41	59.9
	DCC030DR-06	2	293	3.00	4.33	64.7
	DCC032DR-06	2	323	2.89	4.06	66.9
	DCC036DR-06	2	352	2.86	4.18	65.1
	DCC039DR-06	2	375	2.80	4.34	62.0
fan case - size 3: (mm):	DCC031DR-08	2	300	3.22	4.57	64.4
620(H) x 2200(W) x 4820(L)	DCC033DR-08	2	330	3.10	4.29	66.6
	DCC043DR-08	2	432	2.87	4.46	66.3
	DCC046DR-08	2	472	2.74	4.20	68.5
	DCC051DR-08	2	524	2.61	4.19	63.1
for any allow to form.						
fan case - size 4: (mm): 682(H) x 2200(W) x 4846(L)	DCC047DR-08	2	468	2.75	3.91	60.0
	DCC049DR-08	2	490	2.67	3.90	59.7
0 fan case - size 5: (mm):	DCC038DR-10	2	369	3.25	4.60	64.6
620(H) x 2200(W) x 5956(L)	DCC042DR-10	2	396	3.20	4.75	61.3
	DCC045DR-10	2	442	3.04	4.64	66.1
10 fan case - size 6: (mm): 2682(H) x 2200(W) x 5978(L)	DCC049DR-10	2	483	2.95	4.12	59.5
	DCC051DR-10	2	506	2.85	4.05	59.5
	DCC052DR-09	2	524	2.79	4.10	59.9
	DCC056DR-10	2	554	2.89	4.17	60.2
	DCC058DR-10	2	578	2.81	4.14	60.9
	DCC061DR-10	2	612	2.77	4.01	61.5
	DCC065TR-10	3	648	2.67	3.88	61.3
2 fan case - size 8: (mm):	DCC052DR-12	2	512	2.99	4.17	58.3
620(H) x 2200(W) x 7110(L)	DCC054DR-11	2	537	2.96	4.25	59.3
	DCC058DR-12	2	563	3.04	4.30	59.2
	DCC060DR-12	2	591	2.96	4.27	60.4
	DCC063DR-12	2	629	2.93	4.12	61.4
	DCC069TR-11	3	689	2.66	3.92	61.2
	DCC074TR-12	3	746	2.70	4.01	61.2
4 fan case - size 9: (mm):	DCC056DR-13	2	543	3.09	4.37	58.3
682(H) x 2200(W) x 8242(L)	DCC059DR-14	2				
		2	570	3.16	4.40	58.4
	DCC061DR-14		598	3.08	4.37	59.6
	DCC065DR-14	2	636	3.05	4.23	60.6
	DCC068TR-13	3	678	2.92	4.10	61.2
	DCC072TR-14	3	715	2.87	4.13	61.1
	DCC077TR-13	3	770	2.75	4.03	61.3
	DCC080TR-14	3	793	2.80	4.07	61.5
6 fan case - size 10: (mm):	DCC070TR-16	3	688	3.08	4.27	60.1
682(H) x 2200(W) x 9374(L)	DCC077TR-15	3	772	2.89	4.16	61.0
	DCC080TR-16	3	791	2.93	4.18	60.9
	DCC083TR-15	3	817	2.85	4.13	61.6
	DCC086TR-15	3	852	2.82	4.20	62.1
	DCC088TR-15	3	879	2.78	4.15	62.5
	DCC091TR-15	3	906	2.74	4.08	62.9
3 fan case - size 11: (mm):	DCC074TR-17	3	725	3.02	4.29	59.8
682(H) x 2200(W) x 10506(L)	DCC079TR-18	3	782	3.03	4.29	59.7
	DCC082TR-17	3	811	2.96	4.21	60.6
	DCC085TR-18	3	830	3.00	4.26	60.5
	DCC088TR-18	3	869	2.97	4.33	61.5
	DCC091TR-18	3	900	2.93	4.28	62.2
	DCC094TR-18	3	932	2.90	4.21	62.8
) fan case - size 12: (mm):	DCC082TR-19	3	801	3.06	4.30	59.7
682(H) x 2200(W) x 11638(L)	DCC084TR-20	3	821	3.09	4.32	59.7
2 fan case - size 13: (mm): 682(H) x 2200(W) x 12770(L)	DCC087TR-21	3	840	3.12	4.35	59.6
(1) X 2200(11) X 12110(L)	DCC090TR-21	3	879	3.10	4.43	60.5
	DCC093TR-21	3	911	3.06	4.38	61.2
	DCC096TR-21	3	942	3.02	4.31	61.8

Case size	DCC	No. of circuits	Nominal cooling (kW) ¹	EER ²	ESEER ³	Sound pressur @ 10m (dBA)
	Extra Quiet					
I fan case - size 1: (mm):	DCC011SX-04	1	111	3.42	4.53	49.0
612 (H) x 2200 (W) x 2554 (L)	DCC011DX-04	2	112	3.46	4.28	49.0
	DCC013DX-04	2	123	3.43	4.37	49.6
	DCC014SX-04	1	132	3.32	4.45	50.1
	DCC014DX-04	2	133	3.36	4.14	50.1
	DCC015DX-04	2 2	147	3.18	4.17	54.9
	DCC016DX-04 DCC017SX-04	1	156 161	3.12	4.47	48.1 57.1
	DCC018DX-04	2	177	2.88	4.41	50.1
	DCC019DX-04	2	182	2.88	3.86	55.1
	DCC021DX-04	2	201	2.73	4.15	51.5
	DCC023SX-04	1	220	2.48	4.15	58.8
fan case - size 2: (mm):	DCC020DX-06	2	195	3.31	4.29	55.1
620 (H) x 2200 (W) x 3690 (L)	DCC021SX-06	1	198	3.31	4.80	51.7
	DCC022DX-06	2	216	3.21	4.51	51.6
	DCC024SX-06	1	240	2.97	4.46	58.7
	DCC024DX-06	2	235	3.12	4.56	52.2
	DCC027DX-06	2	253	3.03	4.40	52.7
	DCC030DX-06	2	279	2.84	4.33	57.7
fan caca ciza 2 (mm):	DCC032DX-06	2 2	303	2.69 3.40	4.03	59.9
fan case size 3 (mm): 620(H) x 2200(W) x 4820(L)	DCC025DX-08 DCC028DX-08	2	245 264	3.40	4.79	52.3 52.8
, , , , , , , , , , , , , , , , , , , ,	DCC028DX-08	2	294	3.32	4.57	52.8
	DCC033DX-08	2	321	3.03	4.28	59.8
	DCC036DX-08	2	349	2.96	4.40	57.9
	DCC039DX-08	2	371	2.87	4.61	54.3
	DCC043DX-08	2	406	2.65	4.49	59.3
0 fan case - size 5: (mm):	DCC038DX-10	2	361	3.20	4.47	57.8
620(H) x 2200(W) x 5956(L)	DCC046DX-10	2	461	2.75	4.40	61.4
	DCC051DX-10	2	508	2.56	4.39	56.0
0 fan case - size 6: (mm):	DCC048DX-10	2	465	2.84	4.10	55.3
682(H) x 2200(W) x 5978(L)	DCC049DX-10	2	485	2.73	4.08	53.6
12 fan case - size 7: (mm): 2682(H) x 2200(W) x 7090(L)	DCC042DX-12	2	396	3.31	4.88	54.3
	DCC045DX-12	2	438	3.12	4.78	59.1
	DCC048DX-12	2	477	2.96	4.52	61.3
2 fan case - size 8: (mm):	DCC049DX-12	2	480	3.05	4.27	55.3
682(H) x 2200(W) x 7110(L)	DCC051DX-12	2	501	2.93	4.18	53.6
	DCC053DX-11	2	517	2.85	4.27	54.6
	DCC056DX-12	2	545	2.95	4.32	55.4
	DCC058DX-12	2	568	2.84	4.29	56.1
	DCC061DX-12	2	600	2.78	4.16	56.6
4 fan case - size 9: (mm): 682(H) x 2200(W) x 8242(L)	DCC050DX-14	2	491	3.20	4.39	55.3
002(11) X 2200(W) X 0242(L)	DCC052DX-14	2	512	3.08	4.26	53.7
	DCC054DX-13	_	532	3.04	4.38	54.6
	DCC057DX-14 DCC060DX-14	2	560	3.12	4.41	55.4
	DCC063DX-14	2	619	2.98	4.25	56.6
	DCC066TX-13	3	647	2.78	4.09	56.1
	DCC070TX-14	3	684	2.74	4.13	55.6
6 fan case - size 10: (mm):	DCC055DX-15	2	544	3.18	4.47	54.6
682(H) x 2200(W) x 9374(L)	DCC059DX-16	2	571	3.25	4.49	55.4
	DCC061DX-16	2	596	3.16	4.46	56.0
	DCC065DX-16	2	632	3.12	4.32	56.5
	DCC068TX-16	3	673	3.03	4.27	56.1
	DCC075TX-15	3	738	2.76	4.19	55.0
	DCC077TX-16	3	760	2.81	4.20	55.7
8 fan case - size 11: (mm):	DCC072TX-17	3	709	2.97	4.29	55.5
682(H) x 2200(W) x 11638(L)	DCC077TX-18	3	764	2.97	4.31	55.0
	DCC080TX-17	3	782	2.86	4.23	56.3
	DCC083TX-18	3 3	805	2.91	4.28	56.8
	DCC086TX-18 DCC088TX-18	3	837 863	2.87	4.36	57.3 57.6
	DCC0881X-18	3	890	2.81	4.24	58.0
) fan case - size 12: (mm):	DCC071TX-18	3	690	3.20	4.40	56.0
682(H) x 2200(W) x 11638(L)	DCC074TX-20	3	726	3.13	4.41	55.6
	DCC080TX-19	3	784	3.01	4.31	55.7
	DCC082TX-20	3	805	3.05	4.33	56.3
2 fan case - size 13: (mm):	DCC079TX-21	3	782	3.13	4.39	55.0
682(H) x 2200(W) x 12770(L)	DCC081TX-22	3	802	3.15	4.40	55.7
	DCC085TX-21	3	826	3.08	4.37	56.7
	DCC088TX-21	3	861	3.04	4.45	57.1
	DCC091TX-21	3	889	2.99	4.40	57.5

Nominal cooling capacity at 7/12°C water and 35°C ambient temperature
 EER at 7/12°C water and 35°C ambient temperature, based on TOTAL input power of compressors and fans
 ESEER based on Eurovent standard calculation method
 Performance data calculated in accordance with BSEN 14511-2011 and Eurovent 6/6

DeltaChill FreeCool technical specifications

Case Size	DCF	No. of circuits	Nominal cooling (kW) ¹	EER ²	ESEER ³	Free-cooling (kW) ⁴	Free-cooling EER ⁵	Sound pressure @ 10m (dBA)
Regular Quiet								
4 fan case - size 1: (mm):	DCF013DR-04	2	135	3.60	4.19	147	17.34	56.6
2612 (H) x 2200 (W) x 2554 (L)	DCF014SR-04	1	146	3.50	4.28	153	18.05	56.8
	DCF014DR-04	2	146	3.53	3.98	154	18.08	56.8
	DCF015DR-04	2	164	3.37	3.99	162	19.12	61.7
	DCF016DR-04	2	175	3.34	4.22	167	19.64	54.5
	DCF017SR-04	1	180	3.23	3.94	169	19.91	63.9
	DCF018DR-04	2	202	3.15	4.10	177	20.79	58.1
C for once size O. (mm).	DCF021SR-04	1 2	208	3.10	4.17	178	21.01	59.2
6 fan case - size 2: (mm): 2620 (H) x 2200 (W) x 3690 (L)	DCF020DR-06 DCF023DR-06	2	237	3.45	4.07	239	18.76	62.0 59.3
(, (, (,	DCF025SR-06	1	265	3.13	4.17	252	19.74	65.5
	DCF026DR-06	2	263	3.32	4.17	251	19.66	59.7
	DCF029DR-06	2	284	3.24	4.12	258	20.29	60.0
8 fan case - size 3: (mm):	DCF032DR-08	2	326	3.34	4.31	324	19.06	64.4
2620(H) x 2200(W) x 4820(L)	DCF035DR-08	2	359	3.21	4.04	337	19.86	66.7
8 fan case - size 4: (mm):	DCF046DR-07	2	467	2.75	3.80	335	22.56	59.1
2682(H) x 2200(W) x 4846(L)	DCF048DR-07	2	482	2.75	3.67	338	22.75	59.7
	DCF051DR-08	2	509	2.85	3.71	378	22.27	60.0
	DCF053DR-08	2	527	2.74	3.74	372	21.89	59.7
10 fan case - size 5: (mm):	DCF039DR-10	2	400	3.37	4.30	401	18.89	64.6
2620(H) x 2200(W) x 5956(L)	DCF044DR-10	2	429	3.32	4.38	414	19.49	61.4
10 fan case - size 6: (mm):	DCF049DR-09	2	490	3.01	4.01	406	21.26	59.3
2682(H) x 2200(W) x 5978(L)	DCF051DR-09	2	508	3.02	3.92	411	21.51	60.0
	DCF053DR-10	2	530	3.09	3.95	448	21.08	59.8
	DCF055DR-10	2	550	2.97	3.92	437	20.58	60.0
	DCF055DR-09	2	554	2.83	3.79	410	21.48	59.9
	DCF058DR-10	2	580	2.92	3.95	461	21.69	60.2
	DCF062DR-10	2	622	2.89	3.93	470	22.13	60.9
	DCF065DR-10	2	650	2.82	3.83	476	22.40	61.5
	DCF069TR-10	3	686	2.71	3.63	489	23.01	61.3
12 fan case - size 8: (mm): 2682(H) x 2200(W) x 7110(L)	DCF051DR-11	2	498	3.18	4.18	465	19.89	58.0
	DCF053DR-11	2	517	3.20	4.11	472	20.19	58.9
	DCF055DR-12	2	538	3.26	4.12	505	19.81	58.8
	DCF057DR-12	2	558	3.13	4.14	512	20.11	58.7
	DCF058DR-11	2	572	3.03	4.03	471	20.18	59.7
	DCF060DR-12	2	593	3.09	4.10	524	20.57	59.5
	DCF065DR-12	2	641	3.07	4.08	539	21.14	60.8
	DCF068DR-12	2	674	3.01	3.99	547	21.48	61.7
	DCF074TR-11	3	744	2.74	3.68	535	22.89	61.2
	DCF079TR-12	3	794	2.75	3.73	579	22.71	61.2
14 fan case - size 9: (mm)	DCF059DR-13	2	579	3.17	4.17	545	19.76	58.5
2682(H) x 2200(W) x 8242(L)	DCF062DR-14	2	600	3.22	4.23	578	19.44	58.5
	DCF066DR-14	2	650	3.21	4.20	597	20.09	59.9
	DCF070DR-14	2	684	3.15	4.12	609	20.48	60.8
	DCF073TR-13	3	724	2.99	3.91	595	21.56	61.5
	DCF078TR-14	3	782	3.00	3.91	641	21.57	61.5
	DCF082TR-13 DCF085TR-14	3	821 847	2.81	3.79	619 658	22.43	61.3
16 fan case - size 10: (mm):	DCF005TR-14 DCF075TR-16	3	737	3.18	4.11	683	20.11	60.4
2682(H) x 2200(W) x 9374(L)	DCF082TR-15	3	829	2.98	3.89	668	20.98	61.4
, , , , , , , , , , , , , , , , , , , ,	DCF085TR-16	3	850	3.02	3.97	704	20.71	61.2
	DCF090TR-15	3	889	2.97	3.93	700	21.97	61.6
	DCF092TR-15	3	916	2.91	3.94	706	22.18	62.1
	DCF094TR-15	3	944	2.86	3.88	713	22.37	62.5
	DCF096TR-15	3	964	2.79	3.84	717	22.52	62.9
18 fan case - size 11: (mm):	DCF080TR-17	3	795	3.17	4.08	730	20.23	60.2
2682(H) x 2200(W) x 10506(L)	DCF085TR-18	3	841	3.14	4.04	773	20.22	60.1
	DCF088TR-17	3	871	3.06	3.99	738	20.43	61.0
	DCF093TR-18	3	910	3.14	4.13	796	20.83	61.0
	DCF095TR-18	3	942	3.09	4.09	806	21.09	61.8
	DCF098TR-18	3	973	3.04	4.03	815	21.33	62.5
	DCF100TR-18	3	998	2.98	3.99	822	21.51	63.1
20 fan case - size 12: (mm):	DCF088TR-19	3	862	3.17	4.10	806	19.98	60.0
2682(H) x 2200(W) x 11638(L)	DCF090TR-20	3	883	3.20	4.17	839	19.75	60.0
22 fan case - size 13: (mm):	DCF095TR-21	3	922	3.28	4.25	878	19.70	60.0
22 fan case - size 13: (mm): 2682(H) x 2200(W) x 12770(L)	DCF098TR-21	3	954	3.23	4.21	891	19.98	60.8
2002(II) X 2200(W) X 12110(L)								
2002(II) X 2200(W) X I2170(L)	DCF101TR-21	3	986	3.18	4.15	903	20.25	61.5

Case Size	DCF	No. of circuits	Nominal cooling (kW) ¹	EER ²	ESEER ³	Free-cooling (kW) ⁴	Free-cooling EER ⁵	Sound pressu @ 10m (dBA)
Extra Quiet								
1 fan case - size 1: (mm):	DCF013DX-04	2	133	3.57	4.19	118	13.86	49.6
2612 (H) x 2200 (W) x 2554 (L)	DCF014SX-04	1	143	3.45	4.28	121	14.29	50.1
	DCF014DX-04	2	144	3.48	3.96	122	14.31	50.1
	DCF015DX-04	2	159	3.27	3.96	127	14.89	54.9
	DCF016DX-04	2	169	3.21	4.23	129	15.17	48.1
	DCF017SX-04	1	173	3.10	3.93	130	15.31	57.1
	DCF018DX-04	2	190	2.92	4.12	133	15.70	50.1
fan case - size 2: (mm):	DCF020DX-06	2	208	3.40	4.03	180	14.11	55.1
620 (H) x 2200 (W) x 3690 (L)	DCF021SX-06	1	211	3.40	4.52	181	14.20	51.7
	DCF023DX-06	2	230	3.28	4.24	187	14.69	51.6
	DCF025SX-06	1	255	3.00	4.19	194	15.22	58.7
fan case - size 3: (mm):	DCF026DX-08	2	265	3.53	4.53	235	13.82	52.3
620(H) x 2200(W) x 4820(L)	DCF029DX-08	2	285	3.44	4.38	242	14.27	52.8
	DCF032DX-08	2	316	3.25	4.32	252	14.85	57.6
	DCF035DX-08	2	344	3.09	4.04	260	15.28	59.8
0 fan case - size 5: (mm): 620(H) x 2200(W) x 5956(L)	DCF039DX-10	2	388	3.28	4.19	313	14.76	57.8
0 fan case - size 6: (mm):	DCF047DX-09	2	464	2.83	4.06	327	17.10	53.5
682(H) x 2200(W) x 5978(L)	DCF049DX-09	2	479	2.83	3.91	329	17.22	54.3
	DCF051DX-10	2	504	2.93	3.94	361	17.01	55.3
	DCF053DX-10	2	520	2.79	3.97	355	16.74	53.6
2 fan case - size 7: (mm): 620(H) x 2200(W) x 7090(L)	DCF044DX-12	2	427	3.43	4.54	363	14.26	54.3
2 fan case - size 8: (mm):	DCF049DX-11	2	484	3.11	4.21	382	16.37	53.6
2682(H) x 2200(W) x 7110(L)	DCF051DX-11	2	501	3.12	4.11	386	16.54	54.4
(,(,(,		2						
	DCF053DX-12	2	524	3.19	4.13	416	16.33	55.3
	DCF055DX-12		541	3.04	4.10	420	16.50	53.6
	DCF055DX-11	2	545	2.88	4.00	386	16.52	54.6
	DCF058DX-12	2	569	2.96	4.14	427	16.74	55.4
	DCF062DX-12	2	609	2.91	4.12	434	17.04	56.1
	DCF065DX-12	2	636	2.81	4.02	438	17.20	56.6
4 fan case - size 9: (mm): 682(H) x 2200(W) x 8242(L)	DCF050DX-13	2	498	3.30	4.32	430	15.58	53.7
.002(11) X 2200(W) X 0242(L)	DCF053DX-13	2	516	3.32	4.25	436	15.79	54.4
	DCF055DX-14	2	538	3.37	4.26	464	15.60	55.3
	DCF057DX-14	2	556	3.22	4.27	470	15.80	53.7
	DCF057DX-13	2	564	3.10	4.19	450	16.29	54.6
	DCF060DX-14	2	587	3.16	4.24	479	16.11	55.4
	DCF064DX-14	2	630	3.12	4.23	490	16.48	56.0
	DCF068DX-14	2	658	3.04	4.15	496	16.70	56.6
	DCF069TX-13	3	683	2.80	3.90	477	17.29	56.1
	DCF075TX-14	3	738	2.81	3.93	514	17.30	55.6
6 fan case - size 10: (mm):	DCF059DX-15	2	578	3.27	4.29	497	15.61	54.6
682(H) x 2200(W) x 9374(L)	DCF061DX-16	2	600	3.31	4.33	525	15.44	55.4
	DCF066DX-16	2	645	3.29	4.32	540	15.88	56.0
	DCF069DX-16	2	675	3.21	4.24	549	16.15	56.5
	DCF073TX-16	3	715	3.09	4.11	561	16.52	56.1
	DCF079TX-15	3	783	2.80	3.94	549	17.25	55.0
	DCF082TX-16	3	808	2.86	4.01	582	17.12	55.7
8 fan case - size 11: (mm):	DCF078TX-17	3	770	3.08	4.10	599	16.59	55.5
682(H) x 2200(W) x 10506(L)	DCF082TX-18	3	815	3.05	4.07	634	16.58	55.0
	DCF085TX-17	3	833	2.92	4.03	613	16.97	56.3
	DCF089TX-18	3	872	3.01	4.12	647	16.92	56.8
	DCF092TX-18	3	898	2.93	4.12	652	17.05	57.3
	DCF094TX-18	3	924	2.87	4.07	656	17.18	57.6
	DCF096TX-18	3	943	2.79	4.04	660	17.26	58.0
0 fan case - size 12: (mm):	DCF074TX-19	3	737	3.30	4.25	633	15.70	56.0
682(H) x 2200(W) x 11638(L)	DCF079TX-20	3	793	3.28	4.22	672	15.83	55.6
	DCF085TX-19	3	838	3.09	4.13	664	16.45	55.7
	DCF088TX-20	3	860	3.13	4.15	693	16.31	56.3
22 fan case - size 13: (mm):	DCF084TX-21	3	837	3.23	4.16	707	15.87	55.0
682(H) x 2200(W) x 12770(L)	DCF087TX-22	3	859	3.26	4.22	735	15.74	55.7
	DCF092TX-21	3	899	3.22	4.27	726	16.28	56.7
	DCF095TX-21	3	927	3.15	4.23	733	16.45	57.1
	DCF097TX-21	3	955	3.08	4.17	740	16.60	57.5

¹⁾ Nominal cooling capacity at 10/15°C water 20% ethylene glycol and 35°C ambient temperature
2) EER at 10/15°C water 20% ethylene glycol and 35°C ambient temperature based on TOTAL input power of compressors and fans
3) ESEER based on standard Eurovent calculation method
4) Free-cool capacity at 15°C return water 20% ethylene glycol and 3°C ambient temperature
5) Free-cooling EER at 15°C return water; 20% ethylene glycol; 3°C ambient temperature and based on TOTAL input power of fans. Free-cooling is available for up to 95% of the year Performance data calculated in accordance with BSEN 14511-2011 and Eurovent 6/6

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f A factor influencing selection of Airedale was its transparency and facility to witness test. We prefer working with a UK manufacturer who is carrying out product development work and can give us support and reassurance throughout. 📲

Steve Vandyke **Head of Technical Services National Gallery**



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sense

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Graham Ireland Building Services Manager Iceland Frozen Foods

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