



Microchannel Condenser Range

12 – 165kW

- + Vertical or horizontal air discharge
- + Optimised for use with R410A
- + Reduction in refrigerant charge by up to 75%



Unparalleled efficiency

Ultimate in advanced condenser technology

With microchannel coil technology optimised for R410A refrigerant, the new air cooled Microchannel Condenser range has been designed to optimise performance and ensure the lowest possible life cycle costs.

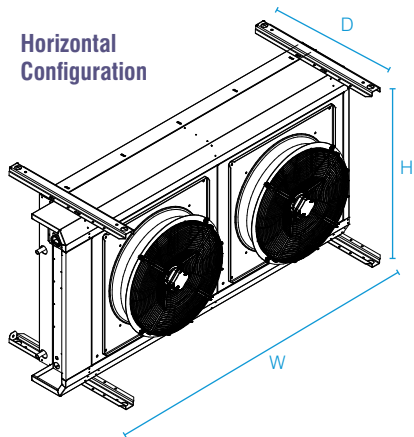
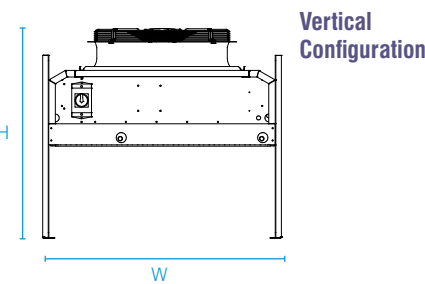
The Microchannel Condenser range is applicable to a variety of environments from retail to healthcare and offices to data centres.



Key technical data

- 12 – 165kW nominal cooling capacity
- Vertical or horizontal air discharge
- Single circuit
- 16 models
- 5 case sizes
- Designed and optimised for R410A refrigerant
- AC axial fans with optional EC fan technology for more efficiency at part load
- Temperature range of -20°C up to 52°C with extended temperature ranges down to -32°C with a low ambient kit, and down to - 40°C with an extra low ambient kit
- Equipped with the latest controls developed by Airedale to facilitate automation and optimisation of the system.

5 case sizes available



SINGLE CIRCUIT DIMENSIONS			
Condenser	Nominal Capacity (kW)	Horizontal Configuration H x W x D	Vertical Configuration H x W x D
CR012M	12	973 x 902 x 895	1065 x 902 x 973
CR016M	16	973 x 902 x 895	1065 x 902 x 973
CR022M	22	1168 x 1095 x 895	1120 x 1095 x 1168
CR026M	26	1168 x 1095 x 895	1105 x 1095 x 1168
CR030M	30	1168 x 1095 x 895	1120 x 1095 x 1168
CR035M	35	1168 x 1095 x 895	1105 x 1095 x 1168
CR050M	50	1168 x 2177 x 895	1120 x 2177 x 1168
CR060M	60	1168 x 2177 x 895	1105 x 2177 x 1168
CR065M	65	1168 x 2177 x 895	1120 x 2177 x 1168
CR075M	75	1168 x 2177 x 895	1105 x 2177 x 1168
CR080M	80	1168 x 3560 x 895	1120 x 3560 x 1168
CR095M	95	1168 x 3560 x 895	1105 x 3560 x 1168
CR0105M	104.3	1168 x 3560 x 895	1120 x 3560 x 1168
CR0130M	130	1168 x 3560 x 895	1105 x 3560 x 1168
CR0140M	139.1	1168 x 4641 x 895	1120 x 4641 x 1168
CR0165M	165	1168 x 4641 x 895	1105 x 4641 x 1168

Dimensions are with AC fan option



Next generation microchannel coil technology for ultimate efficiency

For increased efficiency and lower running costs, the Microchannel Condenser range utilises microchannel coil technology to maximise surface area and gain the most available performance within the space of the unit.

- Increased heat transfer for increased efficiency
- Microchannel coils have a smaller volume, lowering condenser coil refrigerant charge, by up to 75%. As such they provide a more environmentally friendly and cost effective solution.
- Epoxy coated for corrosion protection and therefore longer life expectancy



Optimised head pressure control for increased efficiency

Linked with certain other Airedale units, optimised head pressure control is available, for improved efficiency.



Running Costs of
£8,779.09
Per Year

Based on a SC18D044-X200-0/CR65 in
Leeds with a base load of 40kW



Running Costs of
£7,005.46
Per Year

Based on a SC18D044-X200-0/CR65 in
Leeds with a base load of 40kW

20%
reduction
in annual
running
costs



Designed and optimised for R410A refrigerant

The Microchannel Condenser range has been specifically developed for use with the refrigerant R410A. With the higher heat transfer capabilities of R410A it is designed to increase system efficiencies and is less susceptible to efficiency losses due to pressure drop when compared with R407C.

Smart accessories

For a wide range of applications

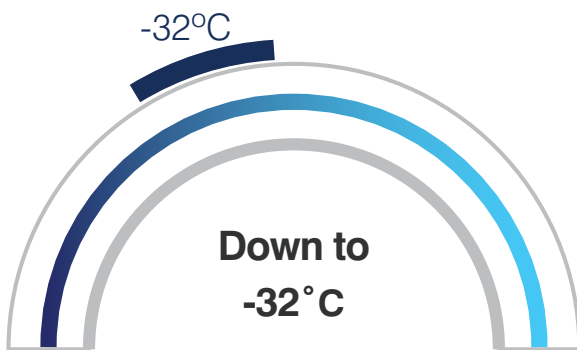


Smart Ambient Cooling Kit

Smart Ambient Cooling Kits are the perfect solution for units which will be operating under extreme conditions. Although our standard units are suitable down to -20°C our Smart Ambient Kits ensure systems can maintain the same level of precise temperature and humidity control across a wide range of outdoor ambient temperatures.

Our Smart Ambient Cooling Kits:

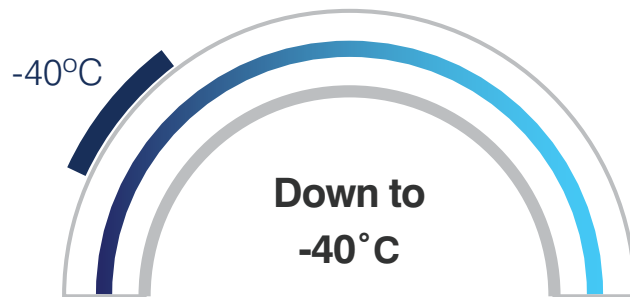
- Prevent loss of cooling to the application
- Ensure continued operation and system protection
- Provide a robust and safe solution
- Optimise efficiency during low ambient temperature operation
- Increase system reliability
- Protect against the risk of flooded starts



Low Ambient Kit

(for temperatures down to -32°C)

- AC fans supported only
- Shut-off valves
- Ultracapacitor
- Low ambient compatible isolator



Extra Low Ambient Kit

(for temperatures down to -40°C)

- Liquid receiver (pressure relief valve and changeover device for pressure relief valve maintenance)
- Non-return valve
- Head pressure control valve
- New control strategy for extra low ambient conditions

ACIS™ BMS

One source, complete visibility

ACIS™ BMS, Airedale's exclusive Building Management System is an innovative, scalable and future-proof solution which has been specifically designed to enhance system performance, drive down operational costs and aid decision making for a wide range of building services.

Offering a more pre-emptive BMS solution, ACIS™ is able to make decisions, delivering a higher level of building intelligence. With its simplistic and intuitive interface, ACIS™ BMS allows you to gain access anytime, anywhere to your building's systems, enabling you to manage building services from any manufacturer across multiple sites through a single integrated system.

A wide range of features enable total system efficiency to be evaluated, puts the user in full control, provides complete visibility of all building services and offers total facility integration.



Complete Visibility of Building Infrastructure



Secure Remote 24/7 Access



Extensive Analysis, Monitoring and Diagnostic Tools



Fully Compatible



Immediate Notifications



Live Capture and Historical Energy Usage



Visualisation and Graphical Representation



Optional 24/7 Support



Specifications at a glance

Nomenclature explained

C	R	165	M	-	P	V	4	E	-	0
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C	Condenser Unit
R	R410A Refridgerant
012 - 165	Nominal Total Heat Rejection in (kW)
M	Microchannel Coil
-	Separator
P	Painted Unit
H / V	Vertical Air Discharge / Horizontal Air Discharge
1 - 4	Number of Fans
A / E	AC Fans / EC Fans
-	Separator
0 / 1 / 7 / 8 / 9	400V/3~/50hz 380V/3~/60hz 230V/1~/50Hz 220V/1~/60Hz 220V/2~ No Neutral/60Hz

Standard Features

- AC fans – high efficiency fans
- R410A refrigerant
- Mains isolator
- Supply Voltage Options (unit dependent):
 - 400V/3PH + N/50Hz
 - 230V/1PH + N/50Hz
 - 380V/3PH + N/60Hz
 - 220V/1PH + N/60Hz
 - 220V/2PH/60Hz

Options

- EC fans - high efficiency fans
- Horizontal air discharge
- Vertical air discharge
- Coil guards
- Coil filtration
- Low ambient kit
- Extra low ambient kit

EU F-Gas Regulations

This product range contains R410A fluorinated greenhouse gas with a GWP of 2088, weight range of 0.9 – 5.3kg, representing 1.8 – 11.0 equivalent tonnes of CO2.

Performance tested and proven

Quality is assured by our on-site , world class testing facilities that set the standard as one of the most advanced testing centres of its kind within the global air conditioning industry.

This facility is integral to our development process and ensures our team of designers and engineers conduct a rigorous test program to produce and improve each of our manufactured units.

Designed and built to exceed stringent international standards, our test centre is capable of testing a complete range of air conditioning equipment including precision air conditioning to 250kW and chillers up to 2MW.

We apply a consistent design design philosophy which combines innovative sustainability with premium performance and efficiency across each range. Our

state-of-the-art, on-site R&D laboratory is BS EN 14511, BS EN 13053 and SASO compliant and allows us to test units for every application.

Our air conditioning units consistently offer some of the industry's leading proven environmental and cost performance figures, combined with the highest quality, reliability and service.

Total support

Whenever you need it

At Airedale, we don't just manufacture and supply cooling and refrigeration products; we also provide a broad range of supporting services to ensure our customers receive the best possible aftersales care.

With more than 40 years' experience in business critical cooling, investing in an Airedale cooling or refrigeration solution means that you can benefit from our advice, expertise and technical support too. From design and selection, through to commissioning and beyond, we make sure your system reduces your total cost of ownership, whilst providing maximum availability and longevity.

Service plans Maximising your system's effectiveness 24/7



An Airedale service plan provides a planned, preventative maintenance package to sustain the optimum efficiency of your system, enabling the user to see real savings in energy costs and reduced carbon emissions.

With Airedale, you can rest assured that help is never far away. Our 24/7 emergency helpline and call out service is available 365 days of the year, ensuring that we are always on hand to provide expert advice and immediate help, day or night.

A guaranteed emergency response time means that a qualified Airedale engineer will be with you in no time, therefore maximising your system's uptime. Service plans also ensure F Gas compliance and incorporate a full parts and labour warranty for the first 12 months.

For more information visit www.airedale.com

* For customers outside the UK, our international distributors trained by Airedale would be pleased to offer service on Airedale units



**Talk directly with
an experienced
engineer**

Find out how we design our systems to reduce your whole life costs. Our highly experienced engineers are adept at tailoring our systems to suit your requirements.

+44 (0)113 239 1000



**24/7 support;
maintenance and
spares**

Immediate help on hand to keep your critical cooling system operational. Realise the full potential of your system; improve its longevity and efficiency and be F Gas compliant. Avoid downtime with our fast, efficient spares service.



**Have complete
control of your site**

Customers with critical sites can benefit from our remote monitoring facility. Aftersales services include chiller sequencing, network setup and integration as well as a live demonstration and training centre at our head office.



**Develop
your skills**

Learn more about your cooling system by attending an air conditioning and refrigeration course in our purpose-built training school. Train on high-tech cooling systems and fully operational rigs in our dedicated workshops. Industry recognised courses also available. Email training@airedale.com for further details.

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