

EasiCool^{Evo}²

The global reference in
precision cooling, *evolved*



AHRI CERTIFIED®
www.ahridirectory.org

Datacom Cooling
AHRI Standard 1360

More performance

More flexibility

More control

We are global

EasiCool is proven in 4 continents in over 3000 applications since 2005.

- 1. Argentina
- 2. Austria
- 3. Bahrain
- 4. Belgium
- 5. Brunei
- 6. Croatia
- 7. Cyprus
- 8. Denmark
- 9. El Salvador
- 10. France
- 11. Germany
- 12. Honduras
- 13. Hong Kong
- 14. Hungary
- 15. Iceland
- 16. India
- 17. Indonesia
- 18. Jamaica
- 19. Jordan
- 20. Kazakhstan
- 21. Kuwait
- 22. Lebanon
- 23. Lithuania
- 24. Malta
- 25. Mauritius
- 26. Morocco
- 27. New Zealand
- 28. Nigeria
- 29. Oman
- 30. Philippines
- 31. Qatar
- 32. Russia
- 33. Saudi Arabia
- 34. Singapore
- 35. South Korea
- 36. Sweden
- 37. Turkey
- 38. UAE
- 39. UK
- 40. Vietnam



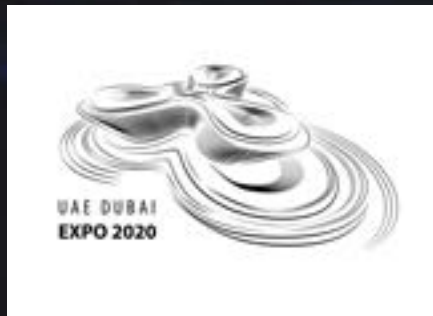
38 Heathrow, London



33 Riyadh Metro, Saudi Arabia



37 Dubai Expo, UAE



We innovate

EasiCool is a true global success story for Airedale, but to keep ahead of the game, evolution is key.

EasiCool Evo² is our most advanced precision cooling system yet. With up to 57% more cooling power than previous models, a redesigned air path for improved performance and dual cool options, featuring DX and chilled water within the same case for built-in redundancy, EasiCool Evo² offers more flexibility of customization.

Quiet, efficient and with minimal space claim, EasiCool Evo² has been designed for a connected world, where cooling systems protect critical equipment vital to the way we live and work.

Providing exceptional configuration flexibility, EasiCool Evo² enables you to tailor unit selection to your specific application.

Critical Cooling for a Connected World

At Airedale, we believe that air conditioning has a critical role to play in an ever-changing world. We also passionately believe that air conditioning manufacturers must play a responsible role in an era where sustainability is key to the preservation of our planet.

Whether you need to maintain productive and healthy working environments for people or optimised operating envelopes for critical equipment, Airedale can offer a tailored solution based on world-class products, industry-leading design, intelligent software, and unrivalled end-to-end customer support.



More performance ...less power

- Up to 57% increased cooling capacity compared to previous models, (up to 98kW) offering more kW/m²
- Addition of dual-cool options, featuring DX and chilled water within the same case for built-in redundancy
- EasiCool Evo² operates with higher return air limits than previous models, allowing for increased efficiency and reduced energy input
- EC fans as standard, working with other technologies to offer up to 10% improved efficiency, compared to previous model.

More flexibility

- With an extensive range of 140 unique models, in 4 different case sizes, EasiCool Evo² offers a configuration to suit many applications
- Front and rear discharge can be achieved with or without a floorstand or plenum, along with standard top and bottom discharge options
- More compact design with simplified maintenance access
- Improved filtration options: ISO-C-75 is a coarse grade of filtration, whilst the ISO-1-60 offers improved small particulate filtration
- Operating envelope extended to allow return air temperatures up to 40°C and ambient temperatures up to 52°C.

More control

- Upgraded controls platform to take advantage of latest IoT advancements, meaning faster start-up, improved diagnostic capabilities and better unit-to-unit networking.
- New variable heater bank options for increased efficiency.



Small Colocation

Enterprise Data Centres

Edge Data Centres

Laboratories

Server Rooms

Discover EasiCool^{Evo}²

Capacity up to 98kW EER up to 26.9

Additional Options (not shown):

- Low Ambient Kit allows reduced ambients, down to -40°C
- Floorstand and / or plenum
- Condensate pump
- RAL 7035 (Light Grey) finish
- pGDx display
- Larger EC fans with improved ESP
- Single or dual cooling circuits
- EEV with liquid solenoid valve.



pGD1 LCD display with intuitive, user-friendly control functions.



Hydrophilic epoxy coated RTPF indoor coil delivers longer life and high performance heat exchange.



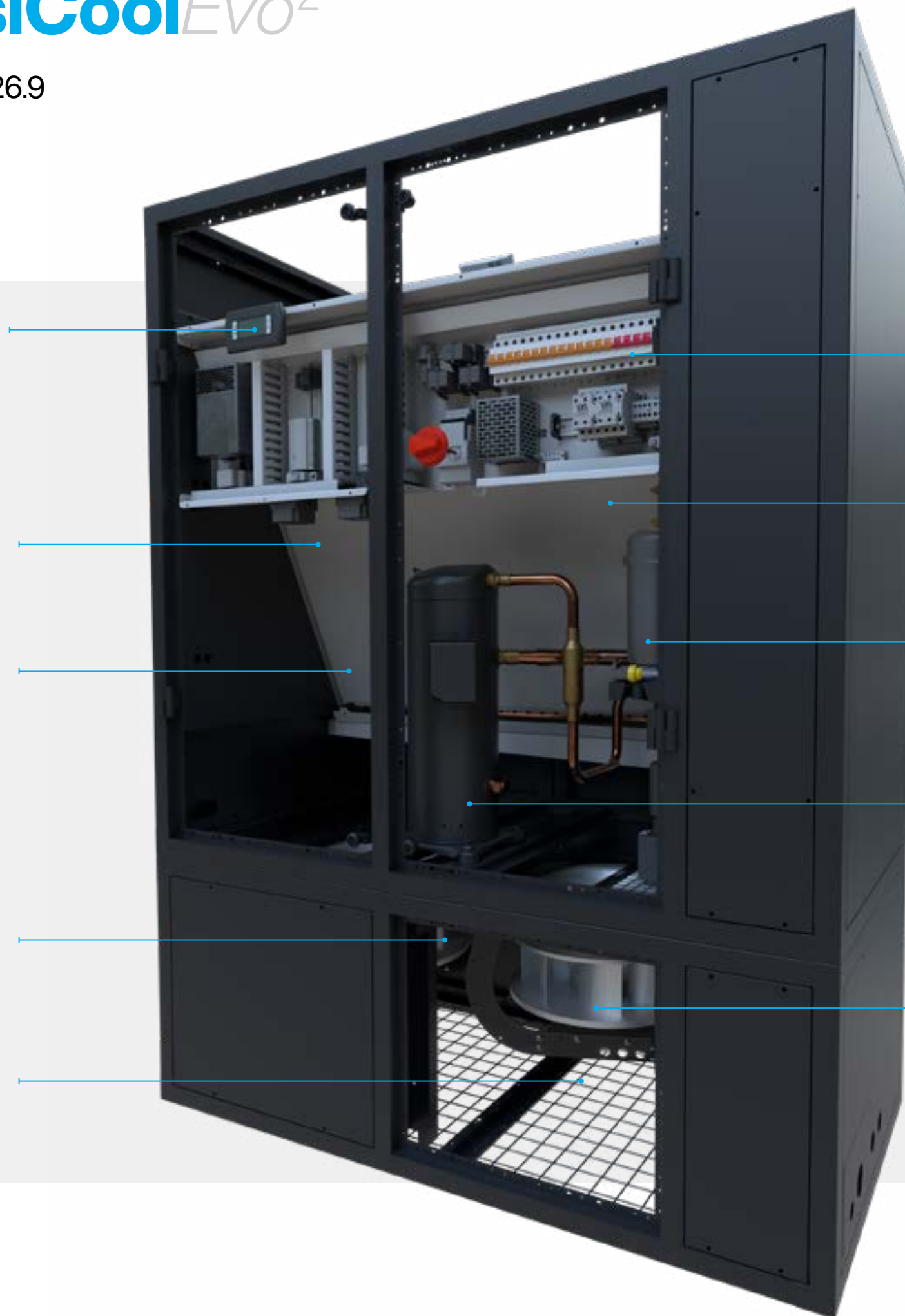
Large CW units utilise full width 6 row slab coil to maximise cooling performance.



Electric heating option up to 18kW with standard and reduced output available with staged and thyristor control.



Flexible discharge and return air options to suit any site architecture.



400V / 50Hz or 380V / 60Hz power supplies.



ISO-C-75 air filters (equivalent to G4) positioned on the coil face for reduced air pressure drops.



Electrode humidification option with reusable or disposable bottles and low, standard or high conductivity.



Quiet and cost-effective R410A scroll compressors in tandem sets for larger units, for increased part load efficiencies.

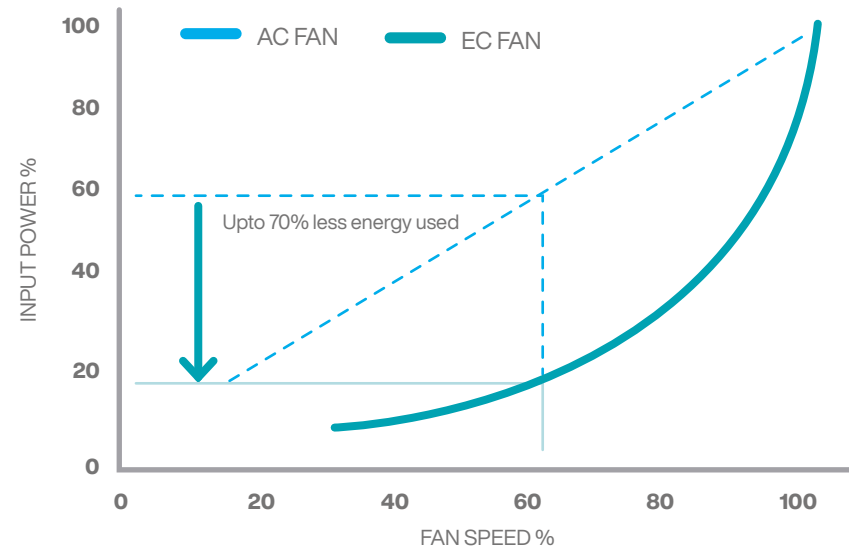


Energy saving backwards curved EC plug fans as standard, incorporated into the case to deliver a compact and easy to install unit.

Precision in Focus

More performance

- Backward curved EC fan.
- Up to 70% more efficient than an AC fan at part load.
- Quiet, speed-controlled EC (electronically commutated) fans use substantially less power than an AC fan equivalent at part load conditions. They respond seamlessly to load fluctuations, improving room air distribution and management.



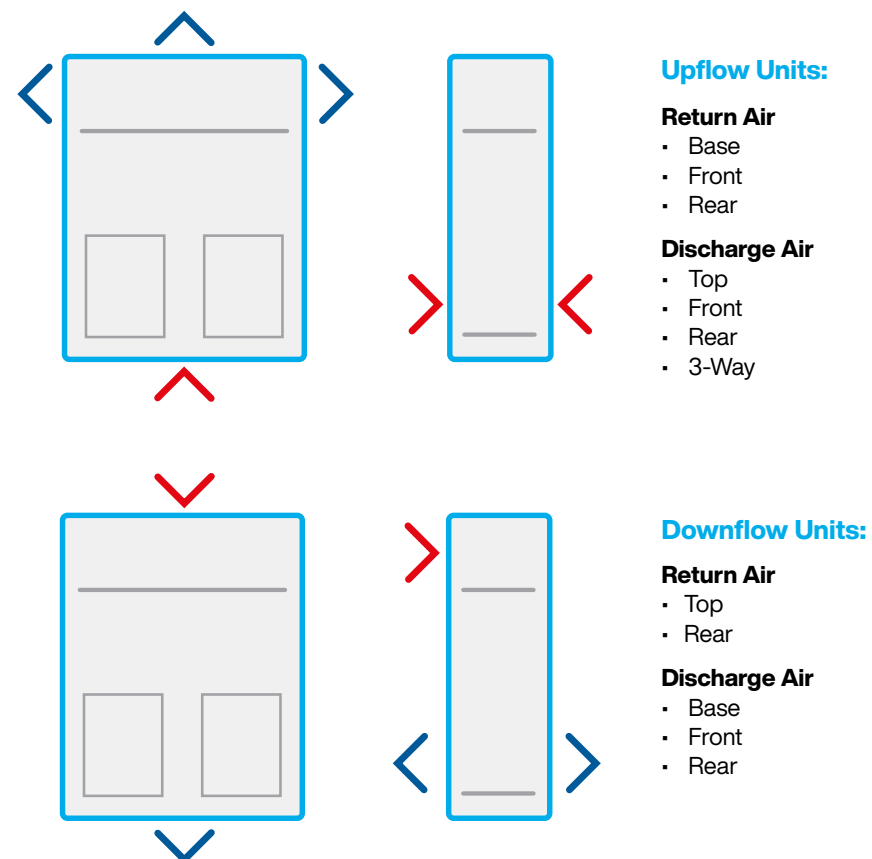
More flexibility

Downflow models available for computer rooms and low density data halls with raised floor.

Upflow models are available configured as base return air for rooms with a raised floor...

...or as rear or front return air (particularly suitable where unit is positioned against a wall).

However, where these options aren't the ideal solution, the Easicool Evo² now offers front discharge, when teamed with a floor stand or plenum.



More control

Helix is a controls platform developed in house by our team of dedicated software engineers. It represents the bonding of hardware, software and innovation provided as standard within every Airedale product.

Airedale are introducing a revamped controls platform for EasiCool Evo², designed to maximise uptime and efficiency in critical applications where exact control of temperature and humidity is vital.

- Set-point management
- Intelligent fieldbus components such as power meters
- Discrete compressor staging and rotation
- Constant superheat via EEV control (EEVs supplied as option)*
- Head pressure control as standard*
- Optional optimised head pressure control, utilising dynamic set point adjustment to select optimised operating condition*
- Networking of units for rotation
- Active alarm and historical alarm summary at user display for diagnostic purposes
- Supervisory capability for ACIS™ or third party BMS.

*DX Air Cooled.

**Digital Sequencer required. Please speak to your Airedale representative for further info.

helix



Powerful next-gen controller with 32-bit CPU.



Faster uploads and boot times.



Unit-to-unit networking including backwards compatibility with older EasiCool models**



User parameters and alarm logs downloadable via USB.

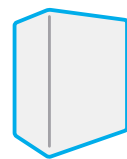
	ED	25	T	80	R	-	1	X	2	0	-	0
ED	EasiCool Downflow											
EU	Easiflow Upflow											
15	Case width in decimetres (1460mm)											
18	Case width in decimetres (1835mm)											
22	Case width in decimetres (2170mm)											
25	Case width in decimetres (2550mm)											
F	Front Return Air											
R	Rear Return Air											
B	Base Return Air (Upflow only)											
T	Top Return Air (Downflow only)											
No.	Nominal cooling capacity											
R	Refrigerant - R410A											
-	Separator											
1	Single DX/CW circuit											
2	Dual DX/CW circuit											
C	Chilled Water											
X	Air Cooled - Compressor Indoor											
0	No Compressors											
1	One Compressor/Circuit											
2	Two Compressor/Circuit											
0	No Secondary cooling coil											
C	Secondary cooling coil chilled water											
-	Separator											
0	400V/3~/50Hz											
1	380V/3~/60Hz											

Selecting your EasiCool

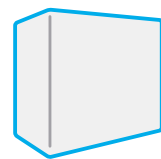
With 140 models available in an assortment of dimensions, our nomenclature table explains how to select the model most suitable for your requirements and the technical table gives more detail on the models available. We always recommend speaking with your sales engineer to ensure you select the optimum model for your project requirements.

Case Arrangements

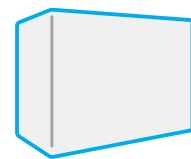
*EZ is used to cover both ED and EU options.



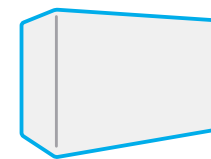
EZ15:
1460 x 750 x 1940



EZ18:
1835 x 750 x 1940



EZ22:
2170 x 750 x 1940



EZ25:
2550 x 750 x 1940

*Footnotes (for table opposite)

Mechanical

1. Entering air 24°C /45% RH 35°C Ambient All performance data is supplied in accordance with BS EN 14511-1:2018
2. Entering air 24°C /45% RH water 7/12°C
3. EER based on 0Pa ESP @ Nominal air volume. EER figure will change as airflow and ESP change

Electrical

1. Values given for full function units with standard selections for heating, humidification, supply air fans.

Model	Max Cooling (Gross) – X (kW) ⁽¹⁾	Max Cooling (Gross) – C (kW) ⁽²⁾	Cooling Stages	Dimensions – W x D x H (mm)	Weight – Machine/ Operating (kg)	Nominal Airflow (m ³ /s)	Recommended Full Function Mains Fuse Size (A)	Indoor Unit EER – X ⁽³⁾	Indoor Unit EER – C
Dual Cool*									
ED15_30R-1X1C-0	28.8	30.5	1	1460 x 750 x 1940	357 / 371	2.8	63	2.6	14.3
ED15_30R-1X1C-1	29.6	30.5	1	1460 x 750 x 1940	357 / 371	2.8	80	2.9	13.8
EU15_30R-1X1C-0	28.8	30.5	1	1460 x 750 x 1940	357 / 371	2.8	63	2.6	14.3
EU15_30R-1X1C-1	29.6	30.5	1	1460 x 750 x 1940	357 / 371	2.8	80	2.9	13.8
Chilled Water*									
ED15_38R-1C00-0	n/a	38.24	n/a	1460 x 750 x 1940	335 / 349	2.80	50		18.0
ED18_54R-1C00-0	n/a	50.30	n/a	1835 x 750 x 1940	406 / 425	3.70	63		16.6
ED22_75R-1C00-0	n/a	76.90	n/a	2170 x 750 x 1940	494 / 531	4.60	80		26.9
ED25_98R-1C00-0	n/a	100.46	n/a	2550 x 750 x 1940	590 / 633	6.50	80		23.5
ED15_38R-1C00-1	n/a	38.24	n/a	1460 x 750 x 1940	335 / 349	2.80	50		18.0
ED18_54R-1C00-1	n/a	50.30	n/a	1835 x 750 x 1940	406 / 425	3.70	63		16.6
ED22_75R-1C00-1	n/a	76.90	n/a	2170 x 750 x 1940	494 / 531	4.60	80		26.9
ED25_98R-1C00-1	n/a	100.46	n/a	2550 x 750 x 1940	590 / 633	6.50	80		23.5
EU15_38R-1C00-0	n/a	38.24	n/a	1460 x 750 x 1940	335 / 349	2.80	50		18.0
EU18_54R-1C00-0	n/a	50.30	n/a	1835 x 750 x 1940	406 / 425	3.70	63		16.6
EU22_75R-1C00-0	n/a	76.90	n/a	2170 x 750 x 1940	494 / 531	4.60	80		26.9
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EU25_98R-1C00-1	n/a	100.46	n/a	2550 x 750 x 1940	590 / 633	6.50	80		23.5
DX*									
ED15_31R-1X10-0	29.3	n/a	1	1460 x 750 x 1940	381 / 384	2.8	63	2.8	
ED18_35R-1X10-0	36.1	n/a	1	1835 x 750 x 1940	465 / 469	3.7	80	2.7	
ED18_45R-1X10-0	43.6	n/a	1	1835 x 750 x 1940	482 / 487	3.7	100	3	
ED22_50R-1X20-0	52.1	n/a	2	2170 x 750 x 1940	559 / 563	4.2	100	3	
ED22_60R-1X20-0	63.5	n/a	2	2170 x 750 x 1940	559 / 564	4.2	100	2.6	
ED25_65R-2X10-0	70.1	n/a	2	2550 x 750 x 1940	633 / 639	5.41	125	2.7	
ED25_65R-1X20-0	71.2	n/a	2	2550 x 750 x 1940	633 / 638	5.41	125	2.8	
ED25_80R-2X10-0	84.3	n/a	2	2550 x 750 x 1940	667 / 673	5.41	125	3	
ED25_80R-1X20-0	84.7	n/a	2	2550 x 750 x 1940	667 / 673	5.41	160	3	
ED15_31R-1X10-1	30.0	n/a	1	1460 x 750 x 1940	381 / 384	2.8	80	2.9	
ED18_35R-1X10-1	37.3	n/a	1	1835 x 750 x 1940	465 / 470	3.7	80	2.9	
ED18_45R-1X10-1	41	n/a	1	1835 x 750 x 1940	482 / 487	3.7	100	3	
ED22_50R-1X20-1	53.9	n/a	2	2170 x 750 x 1940	559 / 563	4.2	100	3	
ED22_60R-1X20-1	58.9	n/a	2	2170 x 750 x 1940	559 / 564	4.2	100	2.9	
ED25_65R-2X10-1	72.4	n/a	2	2550 x 750 x 1940	633 / 639	5.41	125	2.9	
ED25_65R-1X20-1	73.2	n/a	2	2550 x 750 x 1940	633 / 639	5.41	125	3	
ED25_80R-2X10-1	79.3	n/a	2	2550 x 750 x 1940	667 / 673	5.41	125	2.9	
ED25_80R-1X20-1	79.7	n/a	2	2550 x 750 x 1940	667 / 673	5.41	125	2.9	
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EU25_65R-1X20-1	73.2	n/a	2	2550 x 750 x 1940	633 / 639	5.41	125	3	
EU25_80R-2X10-1	79.3	n/a	2	2550 x 750 x 1940	667 / 673	5.41	125	2.9	
EU25_80R-1X20-1	79.7	n/a	2	2550 x 750 x 1940	667 / 673	5.41	125	2.9	

Made in Britain. Applied Worldwide.

ACIS™ More than just a BMS

ACIS™ 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.



HVAC Optimisation

Airedale's 45 years experience in air conditioning allows ACIS to go far beyond other BMS solutions in selecting optimised operating conditions for HVAC systems.



Single Pane of Glass

ACIS provides BMS, PMS and EMS information in a fully customisable single dashboard.



Power Management System

ACIS can manage a facility's power infrastructure and provide insights into usage and faults.



KPIs

ACIS can provide live data on metrics such as PUE (Power Usage Effectiveness), tailored to end-user.



Energy Management System

ACIS provides detailed insights into a facility's energy usage, with inbuilt diagnosis tools that allow users to pinpoint areas of improvement.



Security

ACIS complies with the latest cyber-security protocols, hardening your facility against incursions.



Compatibility

Airedale is one of the largest developers of Tridium, the world's forefront IoT architecture. We use open, standard protocols that allow third party system integration.



Sequence of Events

ACIS can timestamp power events within 2ms, allowing for greater accuracy when determining root cause of outages.



We are Airedale

At Airedale, we believe that air conditioning has a critical role to play in an increasingly connected world. We also passionately believe that air conditioning equipment must play a responsible role in an era where sustainability is key to the preservation of our planet.

Formed in 1974, Airedale International Air Conditioning is a world leader in the design and manufacture of innovative, high efficiency thermal management solutions. With over 45 years' experience, we provide complete cooling solutions that encompass precision air conditioning, IT cooling systems, chillers, condensers/ dry coolers and air handling units.

Airedale also has significant expertise in the design and integration of Building Management Systems and HVAC controls. All of our solutions are supported by a full suite of support services; from commissioning, maintenance, and refurbishment/ upgrades to comprehensive spares support and training, delivered by experts with many years' industry experience.

Solutions Approach

Whether you need to maintain productive and healthy working environments for people, or optimised operating envelopes for critical equipment, Airedale can offer a tailored solution based on world-class products, industry-leading design, intelligent software and unrivalled end-to-end customer support.

Our core business has always been precision cooling, with a pedigree of supplying systems where temperature controlled environments are critical to business operations. As well as being HVAC experts, we also have deep sector experience enabling us to offer tailored solutions to industries where climate control is key, including data centres, pharmaceuticals, healthcare, defence, nuclear power, telecoms and agriculture.

Made in Britain. Applied Worldwide.

Airedale proudly manufactures in the UK out of a state-of-the-art manufacturing and R&D hub in Leeds and is supported by offices in London and Dubai as well as a global network of partners and distributors. It is the values of quality British manufacturing which provides Airedale with a platform to compete on a domestic and global scale.

We have a strong focus on R&D and have, throughout our history, consistently been trailblazers for industry innovation around our core development pillars of leading-edge technology, energy efficiency and the environment.

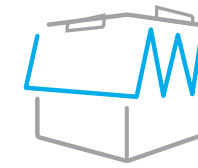
Two Times Manufacturer of the Year 2019

In 2019, Airedale were awarded the title "Manufacturer of the Year" by both the Yorkshire Post and CIBSE Yorkshire, something that we feel speaks volumes to the hard work and dedication that every Airedale employee puts in all year round to making us a world-class manufacturer.

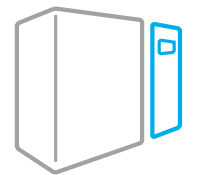
Airedale employs approximately 600 individuals and is owned by the US based Modine Manufacturing Company.



Our Solutions



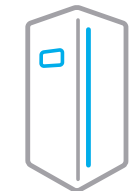
Free-Cooling Chillers
30-2000kW



Precision Air Conditioning
DX/CW 16-500kW



Software Solutions
BMS / HVAC Optimisation / PMS



IT Cooling
In-Row / On-Row 3-67kW



Air Handlers / Fan Walls
180-400kW



Condensers / Dry Coolers
3-1900kW



Complete system design
& project management



Tailored maintenance packages
& temporary solutions



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