

Product Range



> Product Range

Incorporating

- > Close Control Range
- > Chiller Range
- > Comfort Range
- > Condensing Unit Range

www.airedale.com

Product Range

Airedale International Overview

Airedale

Airedale designs and manufactures a complete range of air conditioning products for a global market and is part of the Modine group of companies.

Modine Manufacturing Company, based in Wisconsin, USA, has been a global leader in thermal management solutions for 90 years. Modine designs, tests and manufactures heat transfer products for a wide range of applications and markets. The company employs 8,200 people worldwide at 35 facilities located in North America, Europe and Asia.

Industry Leader

Airedale was founded in 1974 and has grown to become an industry leader in the research, design and manufacture of an extensive range of chillers, close control and comfort products. Airedale's 25,000 m² production facility and £2 million test centre in Leeds, UK, is regarded as a centre of excellence for air conditioning.

Innovative product development is key to Airedale's success, setting industry standards and giving Airedale the edge when it comes to manufacturing expertise and addressing industry, economic and environmental challenges.

Fine-tuning products to meet the demands of a wide range of market and customer needs has ensured that Airedale remains a first choice for air conditioning in telecommunications, banking and commerce and in the leisure, retail, defence, education and industrial sectors.

Global Manufacturing

Airedale has manufacturing facilities in South Africa and China and employs 450 worldwide. Its products are distributed to more than fifty countries through a network of well-established business partners and distributors.

R&D promotes Energy Efficiency

Airedale products are developed with skill and care to maximise their energy efficiency. 'Green' issues such as carbon reduction technology and leak detection now play a major role in all Airedale research and development programmes. Airedale products are assembled using the very best materials and most efficient components available, and are extensively tested before despatch.

State of the Art Factory and Test Facility

Delivering air conditioning solutions to a wide variety of discerning customers with diverse requirements, demands the highest levels of investment in manufacturing technology, systems and skilled engineers. Airedale's UK facility and cutting-edge test centre feature the very best facilities. Designed and built to exceed stringent international standards, the test centre is capable of testing a complete range of air conditioning equipment for a global market. Cooling and heating capacities range from 2kW to 120kW and chillers up to 1MW, the climate temperature being fully controllable anywhere from -5°C to +55°C.



Airedale Service

Airedale Service is a complete air conditioning equipment service solution provider that has invested and expanded to encompass the following strategic services:

- > Individually tailored service and maintenance contracts
- > Emergency breakdown repairs
- > Controls upgrades on both new and existing equipment. Existing mechanically sound equipment can be upgraded to the very latest in controls technology
- > Refrigerant conversion to ensure compliance with the very latest environmental regulations
- > AsNew Refurbishment. If equipment cannot be replaced due to physical building restrictions, we can completely modify the unit on site
- > Energy savings through operational optimisation. Our experienced engineers will recommend alterations to unit set-up that will achieve the required conditions whilst remaining focused on reducing running costs

Airedale Service has now built up an extensive customer base throughout the UK, consisting of some of the country's largest blue-chip PLC's right through to independent companies and organisations.

Highly experienced, industry-trained, regional engineers ensure a rapid response and the continuity of service that all our customers would expect from such a respected industry name as Airedale International.

As a member company of one of the leading manufacturers within the industry, our engineers are trained to the highest and very latest professional standards. This ensures that all our customers receive the utmost level of service in a safe and professional manner.

Please contact Airedale Service on 0113 239 1000 for a full information pack



AireTronix Controls Technology

Obtaining maximum performance and energy efficiency requires effective controls technology. Airedale's AireTronix controls solutions ensure that systems operators get the very best return on their investment. Airedale specialists design, install and commission sophisticated controls solutions to ensure that every installation delivers the maximum benefit available, and AireTronix can be integrated into a wide range of control protocols. Remote monitoring enables engineers to supervise the operation of many components, adjust set points and amend operational parameters without the need to arrange site visits.

Selected Airedale units are equipped with the very latest microprocessor technology available from Airedale. These fully programmable controllers are specifically developed for use with Airedale air conditioning systems, offering powerful analogue and digital control to meet a wide range of monitoring and control features.

Please contact Airedale Controls on 0113 239 1000 for a full information pack

Product Range

Close Control Range



- > Telecom Switching Stations
- > ISP Facilities
- > Computer Rooms
- > Clean Rooms
- > Switching Stations
- > Laboratories

Close Control

EasiCool

- > 5-60kW nominal cooling capacities (DX and Chilled Water)
- > 34 Models in 6 case sizes
- > Upflow and downflow configuration
- > Advanced AireTronix controls technology
- > AV mounted, direct drive, forward curved fans (speed controllable) (Models 6-25 only)
- > Low noise
- > Single circuit DX systems throughout
- > Variable humidification for precisely conditioned air
- > Modular construction
- > Low installation cost
- > Full 360° service and maintenance access
- > Hydrophilic fin cooling coil

AlphaCool

- > 8-100kW nominal cooling capacities (DX, chilled water and glycol free-cooling)
- > 72 models in 5 case sizes
- > Upflow and downflow configurations
- > Advanced AireTronix controls technology
- > Electronic expansion valve technology
- > Direct drive, forward curved fans (speed controllable) (Models 9-19 only)
- > Low noise and vibration emission levels
- > Single, dual and triple circuit systems for staged cooling control
- > Variable humidification for precisely conditioned air
- > Scroll compressors for efficient operation

AlphaCool Plus

- > 95-136kW nominal cooling capacities (chilled water only)
- > 2 models in 2 case sizes
- > Downflow configuration
- > Advanced AireTronix controls technology
- > Direct drive, backward curved fans (speed controllable)
- > Variable humidification for precisely conditioned air
- > Low noise and vibration emission levels
- > Constantly optimised air volume for trouble-free operation
- > Dual housing construction. Fan section hidden in floor void
- > High efficiency slab coil design for optimum heat transfer
- > Minimal servicing due to self optimisation and efficient operation





Ecotel Indoor

- > 5 - 21kW nominal cooling capacities (DX and free-cooling)
- > 6 models in 3 case sizes
- > Compact 600mm x 600mm footprint for 5 and 6.5 kW models
- > Upflow and downflow configurations
- > Advanced AireTronix controls technology
- > Direct drive, backward curved fans (speed controllable)
- > Low noise and vibration emission levels - double skin construction
- > Free-cooling function provides minimal running costs
- > High efficiency slab coil design for optimum heat transfer
- > Easy access to interior components via removable panels



Ecotel Outdoor

- > 5 - 19kW nominal cooling capacities (DX and free-cooling)
- > 10 models in 5 case sizes
- > Upflow and downflow configurations
- > Advanced AireTronix controls technology
- > Ultra quiet operation
- > Vandal-proof fixings, integrally punched grilles and low profile fan mouldings
- > 'Clip -On' mountings for maximised floor space



Concept Plus

- > 4 - 8kW nominal cooling capacities (DX and chilled water)
- > 7 models
- > Network capable microprocessor controls
- > Steam humidification and de-humidification control
- > Electric heating
- > Floor mounted
- > Ideal for small-scale applications



Mistral

- > 9 - 27kW nominal cooling capacities (DX and chilled water)
- > 10 models in 3 case sizes
- > Downflow configuration
- > Advanced AireTronix controls technology
- > Optional electronic expansion valve
- > Direct drive, forward curved fans (speed controllable)
- > Variable humidification for precisely conditioned air
- > Variable steam production humidifier
- > Low profile
- > Optional electric heating
- > Double circuit DX models available

Product Range

Comfort Range



- > Commercial Environments
- > Leisure Environments
- > Superstore Warehouses
- > Department Stores
- > Retail Outlets
- > Office Environments

Comfort

StoreMaster



- > 50 and 77kW nominal cooling capacities
- > 2 models
- > Packaged or split modules (evaporator / condenser)
- > Advanced AireTronix controls technology
- > Small footprint
- > Free-cooling reduces running costs with improved Energy Efficiency Ratio as standard
- > Indirect gas fired heating, electric heating or LPHW heating options
- > Single circuit cooling with 2/3 stages
- > Direct drive, backward-curved, supply air fans
- > Constant air volume control
- > Short case axial return air fan option
- > Modulating head pressure control

Ecopack



- > 53 – 80kW nominal cooling capacities
- > 3 models
- > Small footprint
- > Heat pump option
- > Indirect gas fired heating , electric heating or LPHW heating options
- > Direct drive, backward-curved, supply air fan (options)
- > Double circuit cooling
- > Modulating head pressure control

Roof Mounted packaged



- > 9 - 82kW nominal cooling capacities
- > 12 models
- > Small footprint
- > Heat pump option
- > Electric heating option
- > Single or double circuit cooling variants
- > Supplied with mains isolators
- > Low operating noise levels
- > Modulating head pressure control

Comfort modular



- > 9 – 43kW nominal cooling capacities
- > 8 models
- > Small footprint
- > Heat pump option
- > Electric heating or LPHW heating options
- > Single or double circuit cooling variants
- > Modular construction
- > Electro mechanical controls

Answer Ceiling Cassette



- > 2 – 12kW nominal cooling capacities (DX and chilled water)
- > 11 models
- > Infra-red or electro – mechanical controls
- > Slimline aesthetic design
- > 600mm² model available to fit easily into the space of a standard ceiling tile
- > Heat pump option
- > Electric heating or LPHW heating options
- > Low noise

Concept



- > 4 - 9kW nominal cooling capacities (DX and chilled water)
- > 4 models
- > Infra-red controls
- > Slimline aesthetic design
- > Low wall mounted
- > Low noise
- > Electric heating option
- > Simple installation
- > Easy maintenance
- > 3-speed fan control

Product Range

Chiller Range



- > Close Control Cooling
- > Comfort Cooling
- > Process Cooling

Chillers



Ultima

- > 200 - 750kW nominal cooling capacities
- > 39 models
- > Standard, Quiet or Super Quiet variants
- > Advanced AireTronix controls technology
- > Single screw compressors
- > Sickle bladed fans for lower sound levels
- > Six to eight stage capacity control as standard depending upon model size
- > Electronic expansion valve technology
- > Dual independent refrigeration circuits
- > Modulating head pressure control



Ultima FreeCool

- > 200 - 750kW nominal cooling capacities
- > 39 models
- > Standard, Quiet or Super Quiet variants
- > Advanced AireTronix controls technology
- > Single screw compressors
- > Simultaneous mechanical and free-cooling operation for maximum energy saving
- > Modulating fan speed control
- > Electronic expansion valve technology
- > Dual independent refrigeration circuits
- > Modulating 3-way water valve
- > Modulating head pressure control



Ultima Compact

- > 30kW - 450kW nominal cooling capacity
- > 75 models
- > Standard, Quiet and Super Quiet variants
- > Advanced AireTronix controls technology
- > Multiple scroll compressors
- > Single and dual circuit models (UCC30-80 only, dual circuit on all larger models)
- > Electronic expansion valve technology (not standard on every model)
- > Modulating head pressure control



Ultima Compact FreeCool

- > 75 - 450 kW nominal cooling capacity
- > 45 model sizes
- > Standard, Quiet and Super Quiet variants
- > Advanced AireTronix controls technology
- > Multiple scroll compressors
- > Simultaneous mechanical and free-cooling operation for maximum energy saving
- > Dual independent refrigeration circuits
- > Electronic expansion valve technology (not standard on every model)
- > Modulating head pressure control



Ultima Water Cooled

- > 75 - 450kW nominal cooling capacities
- > 45 models
- > Standard, Quiet and Super Quiet variants
- > Advanced AireTronix controls technology
- > Multiple scroll compressors
- > Dual independent refrigeration circuits
- > Electronic expansion valve technology
- > Compact unit footprint
- > Designed for energy efficient operation
- > High efficiency plate heat exchangers



Ultima Remote Air Cooled

- > 75 - 450kW nominal cooling capacities
- > 45 models
- > Standard, Quiet and Super Quiet variants
- > Advanced AireTronix controls technology
- > Multiple scroll compressors
- > Dual independent refrigeration circuits
- > Electronic expansion valve technology
- > Compact unit footprint
- > Designed for energy efficient operation
- > High efficiency plate heat exchangers



Centrifugal Fan Air Cooled

- > 13 – 71kW nominal cooling capacities
- > 7 models
- > Indoor installation
- > Low noise levels
- > Small footprint
- > Ducted air
- > Optional heat recovery potential

Product Range

Condensing Unit Range



Condensers Condensing Units

- > Close Control Applications
- > Comfort Cooling Applications



Air Cooled condensers

- > 12 - 45kW nominal total heat of rejection (THR) capacities
- > 6 models
- > Small footprint
- > Floor mounted
- > Low noise levels
- > Low profile
- > Discharge and liquid shut off valves
- > Common unit for vertical and horizontal configuration



Condensing Units CU1 - CUS4

- > 2.8 - 13kW nominal THR capacities
- > 8 models
- > Small footprint with slimline design
- > Wall mountable
- > Cooling only and heat pump variants
- > Mains isolator and head pressure control as standard



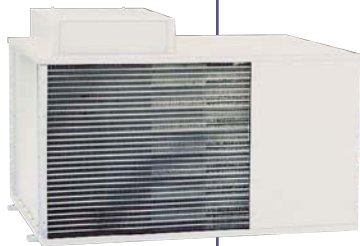
Horizontal Condensing Units

- > 54 - 80kW nominal THR capacities
- > 3 models (double circuit)
- > Small footprint
- > Floor mounted
- > Low noise levels



Ultima Compact Condensing Unit

- > 30 – 450kW nominal THR capacities
- > 75 models
- > Standard, Quiet and Super Quiet variants
- > Advanced AireTronix controls technology
- > Multiple scroll-compressors
- > Dual independent refrigeration circuit (single option on UCCU30-80)



Centrifugal Fan Condensing Units

- > 14 - 30kW nominal THR capacities
- > 4 models
- > Small footprint
- > Designed to be located within a plant room
- > Low noise levels
- > Factory piped, ducted air option



Condensing Units CUS15 - 60D

- > 40 - 161kW nominal THR capacities
- > 7 models
- > Small footprint
- > Low noise levels
- > Cooling only
- > Floor mounted for external locations
- > Accessories offered for each individual application



Condensing Units CUS / CUSH5 - 12

- > 14 - 35kW nominal THR capacities
- > 5 models
- > Cooling only and heat pump variants
- > Floor mounted
- > Heat pump with heating capacities ranging from 14- 23kW
- > Scroll compressors offering lower noise, reduced vibration and lower electrical starting currents
- > Low profile

- > For the latest information on our products please visit : www.airedale.com
- > Please refer to the technical manuals for more detailed information
- > Airedale participates in the Eurovent Certification programme as a founder member. The performance data of certified products is independently verified and identified within the relevant sales literature

Your nearest Airedale distributor is:



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