

6 - 46kW



> **EcoChill**

An energy efficient, compact air cooled chiller with heat pump

Typical applications

- > Precision Air Conditioning
- > Comfort cooling
- > Process cooling

[www.airedale.com](http://www.airedale.com)

Heat pump  
or cooling only

## EcoChill

The EcoChill has Class A efficiency across the entire range and is available as cooling only or as a heat pump variant. It is a very flexible solution that can be applied in either a commercial or domestic setting. It benefits from a small footprint, making it ideal for solutions with limited space.

The range is available in eleven sizes, with cooling ranging from 5.7 to 43.0kW and in heat pump mode from 6.2 to 46.3kW. There are five variants available that deliver a variety of hydronic options ensuring a suitable solution for all applications.

## Energy optimisation

Excellent part load efficiencies raise the EcoChill's seasonal efficiency ESEER\* up to 4.25. The chiller benefits from axial fans that are extremely quiet, matched with extremely efficient heat exchangers and scroll compressors.

\* ESEER based on standard Eurovent calculation method



## Versatility of heat pump or cooling-only

The EcoChill range offers the choice of a heat pump unit, ideal for a wide range of comfort applications, or as a cooling-only system which can be applied to a wide array of precision air conditioning or process applications.

## Key technical data

- > Designed and optimised for R410A
- > 6 – 44kW nominal cooling capacities
- > 6 – 46kW nominal heating capacities
- > 11 models available
- > ESEER up to 4.25
- > Class A EER's up to 3.38
- > Full hydronics package available
- > Scroll compressors minimise sound
- > Compact configuration: Greater cooling per square metre

### Typical applications



Precision Air Conditioning



Comfort cooling



Process cooling

## Energy saving features and options



ESEER\* above 4.25

- > EER up to 3.38
- > Optimised for R410A; requires minimum refrigerant charge and has a high heat transfer coefficient
- > High efficiency scroll compressors
- > Chiller Sequence Manager integrates up to 8 chillers into a single, efficient operating system (option)

### More features:

Included as standard:

- > Fan speed control
- > AV mounts
- > RS-485 Interface
- > Trace heating
- > Condensate drip tray (Heat pump units only)

Optional:

- > Soft start for improved efficiency

### ChillerGuard Service Plan – maintaining your chiller's efficiency

The EcoChill is a highly efficient chiller. To make sure its full efficiency is realized after leaving our factory, we recommend a **ChillerGuard** Service Plan. This provides a planned, preventative maintenance package to sustain the optimum efficiency of the EcoChill and enable the user to see real savings in energy costs and reduced carbon emissions.

A priority, 24/7 emergency helpline; professional support and call-out service is on hand throughout the year with guaranteed response by a fully qualified Airedale engineer. ChillerGuard also ensures F Gas compliance and incorporates a full parts and labour warranty for the first 12 months.

For more information visit [www.airedale.com](http://www.airedale.com)

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

### High efficiency performance driven by smart control logic

#### Intelligent Controls

The EcoChill is fitted with sophisticated, modulating and self optimising control for increased energy efficiency.

#### ACIS: Remote supervision



ACIS is an intelligent, latest technology BMS software programme which links multi-unit systems located on one or more sites, into a single, proactive control platform. With the click of a button, information can be pulled back automatically and used for remote monitoring and control, including 24/7 alarm indication, time scheduling and adjustment of temperature setpoints for increased energy efficiency.

Technical specifications						
Model no.	Nominal cooling (kW) <sup>1</sup>	EER	ESEER	Sound pressure @ 10m (dBA)	Dimensions (H x W x L)(mm) <sup>3</sup>	
<b>Cooling only</b>						
020	5.7	3.09	3.72	30.0	868 x 900 x 310	
025	6.2	3.10	3.72	30.0	868 x 900 x 310	
030	7.5	3.05	3.66	37.0	1000 x 900 x 310	
040	9.6	2.95	3.54	37.0	1000 x 900 x 310	
050	13.4	3.32	3.99	38.0	1252 x 1124 x 384	
070	16.5	3.38	4.06	38.0	1252 x 1124 x 384	
080	20.5	3.23	3.88	38.0	1252 x 1124 x 384	
090	22.3	3.36	4.03	37.0	1252 x 1124 x 384	
100	26.6	3.16	4.14	44.0	1390 x 750 x 1750	
150	33.0	3.30	4.25	45.0	1390 x 750 x 1750	
200	43.0	3.14	4.12	46.0	1390 x 750 x 1750	
Model no.	Nominal cooling (kW) <sup>1</sup>	Nominal Heating <sup>2</sup>	EER	ESEER	Sound pressure @ 10m (dBA)	Dimensions (H x W x L)(mm) <sup>3</sup>
<b>Heat pump version</b>						
020	5.7	6.2	3.09	3.72	30.0	868 x 900 x 310
025	6.2	7.0	3.10	3.72	30.0	868 x 900 x 310
030	7.5	8.4	3.05	3.66	37.0	1000 x 900 x 310
040	9.6	10.6	2.95	3.54	37.0	1000 x 900 x 310
050	13.4	14.0	3.32	3.99	38.0	1252 x 1124 x 384
070	16.5	17.3	3.38	4.06	38.0	1252 x 1124 x 384
080	20.5	22.2	3.23	3.88	38.0	1252 x 1124 x 384
090	22.3	24.2	3.36	4.03	37.0	1252 x 1124 x 384
100	26.0	29.0	3.02	4.14	44.0	1390 x 750 x 1750
150	32.0	35.0	3.13	4.25	45.0	1390 x 750 x 1750
200	42.0	46.0	3.02	4.12	46.0	1390 x 750 x 1750

<sup>1</sup> At nominal conditions of 12/7°C water in/out, 30°C ambient  
<sup>2</sup> Heating: Leaving hot water temperature: 35°C (ΔT 5°C). Outdoor air temperature: 7 °C DB / 6 °C WB  
<sup>3</sup> Dimensions based on standard unit with pump  
<sup>4</sup> ESEER based on standard Eurovent calculation method

- > For the latest information on Airedale products please visit: [www.airedale.com](http://www.airedale.com)
- > Please refer to the technical manuals for more detailed information

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