

EcoChill

56 – 202 kW Chiller/Heat Pump



EcoChill key features

- + Cooling only and heat pump variants
- + Low noise
- + High efficiency
- + SEER up to 4.72
- + SCOP up to 4.04

HFC
R410A

Technology

EcoChill™

The new EcoChill from Airedale, with a capacity of up to 190kW, in both cooling and heating mode.

EcoChill is a very flexible solution that can be applied to either a commercial or industrial setting. It benefits from a small footprint, making it ideal for solutions with limited space.

Quiet and Extra Quiet options

With quiet and extra quiet operation, class A efficiency and unparalleled reliability, the EcoChill 200 utilises high efficiency heat exchangers and scroll compressor technology to achieve high performance and low noise.

Modes of Operation

Available as cooling only or as a heat pump variant, the EcoChill from Airedale is a very flexible solution that benefits from a small footprint, making it ideal for solutions with limited space.

Efficiency

Optimised for R410A, EcoChill requires minimum refrigerant charge and has a high heat transfer coefficient making it efficient in both cooling only and cooling and heat pump mode. All options come with EC fans and electronic expansion valves as standard, to further increase energy efficiency.

Versatility

The low sound, compact size and high efficiency of EcoChill makes it an ideal selection for a variety of settings, including precision applications, comfort cooling in urban settings and process cooling in a laboratory setting.



SEER* of up to 4.72

*Seasonal energy efficiency ratio

Features and options at a glance

- 56 – 202 kW
- SEER up to 4.72
- Heat pump or cooling only
- Single and dual circuit options to ensure maximum efficiency at partial load
- Outdoor installation
- Residential, commercial or industrial applications
- Night mode option for greater acoustic comfort
- Quiet and extra quiet model
- Standard and high efficiency option
- Operates at full load with outdoor temperature of up to +48°C, even for quiet mode variants
- Electronic expansion valve on all models
- Optional integrated hydronic system
- Fixed speed or inverter controlled pumps for system commissioning
- EC fans as standard

Technical data

Cooling Only

Extra High Efficiency					Quiet Extra High Efficiency					
"Nominal Cooling Capacity (kW)"	EER	Sound Pressure @ 10m dB(A)	"Dimensions (H x W x L)"	SEER	"Nominal Cooling Capacity (kW)"	EER	Sound Pressure @ 10m dB(A)	"Dimensions (H x W x L)"	SEER	
ECL282	-	-	-	-	60,8	3,42	40,6	1680 x 1100 x 2950	4,54	
ECL302	-	-	-	-	69,0	3,37	41,5	1680 x 1100 x 2950	4,58	
ECL332	-	-	-	-	76,9	3,36	41,9	1680 x 1100 x 2950	4,52	
ECL352	92,7	3,42	52,1	1898 x 1100 x 3200	4,54	89,7	3,23	47,8	1898 x 1100 x 3200	4,60
ECL502	104,5	3,39	52,6	1898 x 1100 x 3200	4,53	100,8	3,16	48,8	1898 x 1100 x 3200	4,50
ECL552	117,2	3,40	53,1	1898 x 1100 x 3200	4,67	112,4	3,12	49,6	1898 x 1100 x 3200	4,60
ECL602	132,1	3,40	54,6	1898 x 1100 x 4010	4,54	128,6	3,26	51,0	1898 x 1100 x 4010	4,72
ECL652	146,8	3,32	54,8	1898 x 1100 x 4010	4,56	142,2	3,14	51,4	1898 x 1100 x 4010	4,61
ECL682	171,6	3,39	54,9	1898 x 1100 x 4010	4,66	164,5	3,11	51,6	1898 x 1100 x 4010	4,68
ECL702	191,4	3,23	55,7	1898 x 1100 x 5200	4,47	185,1	3,04	52,3	1898 x 1100 x 5200	4,53
ECL752	209,6	3,12	56,3	1898 x 1100 x 5200	4,46	201,1	2,87	53,3	1898 x 1100 x 5200	4,50
ECL604	137,9	3,34	53,8	1898 x 1100 x 4010	4,10	133,5	3,15	44,9	1898 x 1100 x 4010	4,29
ECL654	152,9	3,36	53,9	1898 x 1100 x 4010	4,12	147,1	3,11	45,2	1898 x 1100 x 4010	4,19
ECL704	180,5	3,21	54,8	1898 x 1100 x 5200	4,05	174,5	3,03	45,7	1898 x 1100 x 5200	4,17
ECL754	202,9	3,21	56,3	1898 x 1100 x 5200	4,11	195,1	2,99	51,1	1898 x 1100 x 5200	4,13

Heat pump

High Efficiency									
"Nominal Cooling Capacity (kW)"	EER	"Nominal Heating Capacity (kW)"	COP	Sound Pressure (Cooling) @ 10m dB(A)	Sound Pressure (Heating)@ 10m dB(A)	"Dimensions (H x W x L)"	SEER	SCOP	
ECL502	96,9	3,00	100,3	3,27	54,8	54,8	1898 x 1100 x 3200	4,21	3,54
ECL552	106,5	2,95	110,9	3,31	55,0	55,0	1898 x 1100 x 3200	4,14	3,65
ECL602	123,6	3,13	124,3	3,31	55,2	55,2	1898 x 1100 x 3200	4,39	3,65
ECL652	133,6	2,97	138,2	3,29	55,4	55,4	1898 x 1100 x 3200	4,20	3,66
ECL682	163,9	3,23	164,1	3,27	56,8	56,8	1898 x 1100 x 4010	4,38	3,57
ECL702	178,5	3,13	179,7	3,19	56,9	56,9	1898 x 1100 x 4010	4,27	3,61
ECL752	199,9	3,01	200,6	3,19	57,4	57,4	1898 x 1100 x 4010	4,24	3,62
ECL604	123,1	2,84	129,7	3,20	54,6	54,6	1898 x 1100 x 3200	3,93	3,40
ECL654	142,1	3,01	149,4	3,20	56,2	56,2	1898 x 1100 x 4010	3,92	3,38
ECL704	168,0	3,03	172,3	3,17	56,2	56,2	1898 x 1100 x 4010	3,99	3,29
ECL754	190,0	3,03	190,0	3,19	57,5	57,5	1898 x 1100 x 4010	4,06	3,40

Quiet High Efficiency									
"Nominal Cooling Capacity (kW)"	EER	"Nominal Heating Capacity (kW)"	COP	Sound Pressure (Cooling) @ 10m dB(A)	Sound Pressure (Heating)@ 10m dB(A)	"Dimensions (H x W x L)"	SEER	SCOP	
ECL282	55,4	3,00	59,0	3,37	41,3	41,3	1680 x 1100 x 2450	4,28	4,03
ECL302	62,1	2,96	68,2	3,36	41,7	41,7	1680 x 1100 x 2950	4,32	4,04
ECL332	70,0	2,95	76,6	3,35	42,5	42,5	1680 x 1100 x 2950	4,22	4,03
ECL352	81,2	2,86	87,1	3,30	42,7	42,7	1680 x 1100 x 2950	4,24	3,89
ECL502	94,0	2,86	100,3	3,27	50,3	54,8	1898 x 1100 x 3200	4,17	3,54
ECL552	103,0	2,79	110,9	3,31	51,0	55,0	1898 x 1100 x 3200	4,10	3,65
ECL602	119,1	2,92	124,3	3,31	51,4	55,2	1898 x 1100 x 3200	4,33	3,65
ECL652	128,0	2,73	138,2	3,29	51,8	55,4	1898 x 1100 x 3200	4,12	3,66
ECL682	159,4	3,10	164,1	3,27	52,9	56,8	1898 x 1100 x 4010	4,35	3,57
ECL702	172,5	2,95	179,7	3,19	53,1	56,9	1898 x 1100 x 4010	4,21	3,61
ECL752	191,7	2,77	200,6	3,19	54,1	57,4	1898 x 1100 x 4010	4,16	3,62
ECL604	117,6	2,63	129,7	3,20	44,8	54,6	1898 x 1100 x 3200	3,86	3,40
ECL654	138,3	2,90	149,4	3,20	45,8	56,2	1898 x 1100 x 4010	3,93	3,38
ECL704	162,3	2,87	172,3	3,17	46,0	56,2	1898 x 1100 x 4010	3,98	3,29
ECL754	182,6	2,81	190,0	3,19	52,0	57,5	1898 x 1100 x 4010	3,92	3,40

Additional technical data

- 56 to 202kW
- EER up to 3.3
- SEER up to 4.7
- Single and dual circuit models
- Epoxy coated condenser coils especially designed for durability and low refrigerant charge
- 2 height options (1680mm or 1896mm)
- 5 width options (2450mm, 2950mm, 3200mm, 4010mm, 5200mm)
- Standard depth 1100mm

Typical applications



Precision Air Conditioning



Comfort Cooling



Process Cooling

For more information, please contact us on **0113 2391000** or visit **www.airedale.com**



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All specifications are subject to change without prior notice | **ENG-ECO-03-20**

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