

Ecovector® High Level

Domestic and Non-Domestic Applications



A range of wall-mounted fan convectors that are ideal for the home, office and a wide variety of other non-domestic applications. Fitted unobtrusively above head height, Ecovector® HL makes maximum use of wall space with a safe, high-level heat source. Suitable for use on both existing boiler systems and those driven by renewable technology such as ground or air-source heat pumps. Using only 5% of the water content of an equivalent output radiator the Ecovector high level fan convector is more energy efficient, more responsive and more effective than either under-floor heating or panel radiators. Will heat the room more quickly than other heat emitters thereby reducing the amount of time your boiler or heat pump is running. Low voltage model available for areas of high humidity such as bathrooms and swimming pools.



Independent tests* show that fan convectors are at least 24% more energy efficient than a panel radiator in heating up a room.

**Tests carried out by BSRIA (Building Services Research and Information Association) in August 2008*

Model	Room Size Guide* (m ³)	Heat Output at 80°C		Heat Output at 75°C		Heat Output at 70°C		Heat Output at 65°C	
		Normal kW (Btu/h)	Boost kW (Btu/h)	Normal kW (Btu/h)	Boost kW (Btu/h)	Normal kW (Btu/h)	Boost kW (Btu/h)	Normal kW (Btu/h)	Boost kW (Btu/h)
Hydronic									
Ecovector HL 1000	29	1.0 (3500)	1.3 (4600)	1.0 (3300)	1.2 (4050)	0.9 (3100)	1.1 (3750)	0.8 (2800)	1.0 (3400)
Ecovector HL 2300	66	2.3 (7850)	3.1 (10500)	2.1 (7000)	2.8 (9400)	1.9 (6400)	2.5 (8500)	1.7 (5700)	2.1 (7300)
Ecovector HL 2900	-	2.9 (10000)	4.2 (14500)	2.7 (9200)	4.0 (13500)	2.5 (8500)	3.5 (12000)	2.3 (7700)	3.2 (11000)
Ecovector HL 4000	-	4.0 (13500)	5.3 (18000)	3.7 (12500)	4.8 (16500)	3.3 (11300)	4.4 (15100)	3.0 (10400)	4.1 (13900)
Hydronic Low Voltage									
Ecovector HL 1000-12V	25	1.0 (3500)	1.3 (4600)	1.0 (3300)	1.2 (4050)	0.9 (3100)	1.1 (3750)	0.8 (2800)	1.0 (3400)

*Room sizes given in cubic metres for general guidance only based on normal heat output (80°C) for domestic applications - always calculate heat losses. Heat outputs tested in accordance with BS 4856 using entering water temperature. Fan-only option operational only when central heating system is switched off.

Model	Room Size Guide* (m ³)	Heat Output at 60°C		Heat Output at 55°C		Heat Output at 50°C		Heat Output at 45°C	
		Normal kW (Btu/h)	Boost kW (Btu/h)	Normal kW (Btu/h)	Boost kW (Btu/h)	Normal kW (Btu/h)	Boost kW (Btu/h)	Normal kW (Btu/h)	Boost kW (Btu/h)
Hydronic									
Ecovector HL 1000	29	0.7 (2550)	0.9 (3200)	0.6 (2100)	0.8 (2750)	0.5 (1850)	0.7 (2400)	0.5 (1600)	0.6 (2000)
Ecovector HL 2300	66	1.4 (4800)	1.9 (6600)	1.4 (4700)	1.8 (6300)	1.2 (4100)	1.6 (5500)	1.1 (3600)	1.4 (4800)
Ecovector HL 2900	-	2.1 (7200)	2.9 (9800)	1.9 (6600)	2.6 (8900)	1.6 (5400)	2.3 (7800)	1.4 (4750)	2.0 (6800)
Ecovector HL 4000	-	2.7 (9100)	3.4 (11500)	2.4 (8200)	3.2 (10900)	2.1 (7150)	2.8 (9600)	1.8 (6300)	2.5 (8400)
Hydronic Low Voltage									
Ecovector HL 1000-12V	25	0.7 (2550)	0.9 (3200)	0.6 (2100)	0.8 (2750)	0.5 (1850)	0.7 (2400)	0.5 (1600)	0.6 (2000)

*Room sizes given in cubic metres for general guidance only based on normal heat output (80°C) for domestic applications - always calculate heat losses. Heat outputs tested in accordance with BS 4856 using entering water temperature. Fan-only option operational only when central heating system is switched off.

Model	Room Size Guide* (m ³)	Heat Output at 40°C	
		Normal kW (Btu/h)	Boost kW (Btu/h)
Hydronic			
Ecovector HL 1000	29	0.4 (1350)	0.5 (1800)
Ecovector HL 2300	66	0.9 (3000)	1.2 (4000)
Ecovector HL 2900	-	1.2 (4000)	1.7 (5700)
Ecovector HL 4000	-	1.6 (5300)	2.1 (7000)
Hydronic Low Voltage			
Ecovector HL 1000-12V	25	0.4 (1350)	0.5 (1800)

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Model	Room Size Guide* (m ³)	Sound Levels		Casing Colour	Fan-Only
		Normal (dBA)	Boost (dBA)		
Hydronic					
Ecovector HL 1000	29	32	40	White	•
Ecovector HL 2300	66	34	50	White	•
Ecovector HL 2900	-	37	51	White	•
Ecovector HL 4000	-	39	52	White	•
Hydronic Low Voltage					
Ecovector HL 1000-12V	25	32	39	White	•

Sound levels measured at 1.5m.

Model	Flow & Return Connections	Mains Cable	Transformer	Flexible Hoses	Isolating Valves	Fused Spur	Power Consumption		Water Capacity (Litres)
							Normal (Watts)	Boost (Watts)	
Hydronic									
Ecovector HL 1000	15mm	1.5m	n/a	n/a	n/a	3A	20	25	0.28
Ecovector HL 2300	15mm	1.5m	n/a	n/a	n/a	3A	20	32	0.32
Ecovector HL 2900	15mm	1.5m	n/a	n/a	n/a	3A	33	50	0.52
Ecovector HL 4000	22mm	1.5m	n/a	n/a	n/a	3A	40	60	1.04
Hydronic Low Voltage									
Ecovector HL 1000-12V	15mm	0.45m	•	n/a	n/a	3A	20	25	0.28

Ecovector® High Level

Finish

Front casing: zinc-coated steel. Polyester powder-coated: textured white BS 4800 00A01 18% gloss.

Side panels: polymer eggshell white.

Installation

- Maximum installation height 2.1m (6'11") to underside
- No top or side clearance required
- Unit must be earthed (except model 1000-12V)
- Suitable for two-pipe central heating systems
- Patress box not supplied for transformer (model 1000-12V)

Commissioning

Check water is hot enough to activate the selectable low temperature cut-out thermostat. The inclusion of an automatic air vent at the highest point is recommended to avoid possible air locks.

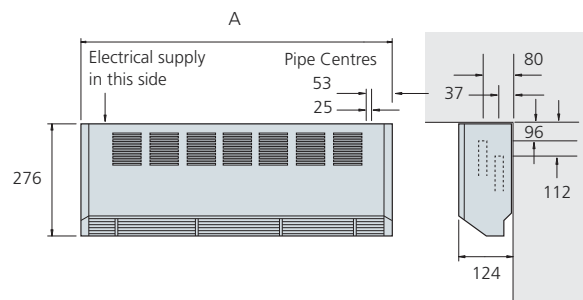
Controls

Two rocker switches - normal/off/boost, heating/fan-only. Low temperature cut out thermostat, set to energise fan at approximately 35°C.

Accessory

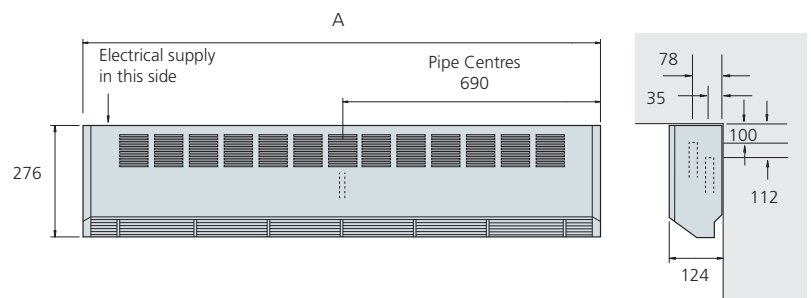
Wall-mounted room thermostat.

Ecovector® HL 1000, 1000-12V, 2300, 2900



Model	A
1000	470
1000-12V	470
2300	781
2900	1062
4000	1412

Ecovector® HL 4000



All dimensions in mm