



Ecovector offers energy efficiency, safety with its low surface temperature casing and controllability with in-built room thermostat. 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 Low Level fan convector is fast, responsive and very quiet in operation. Provides warmth from the floor upwards – the ideal heating pattern – but is more responsive, energy efficient and effective than either under-floor heating or radiators. Fan convector technology allows the central heating system to operate at temperatures as low as 40°C enabling heat pumps to run at their higher efficiencies and to generate SAP improvements of 7.5% over traditional radiators. Ecovector installs just like a radiator using the same pipe work and takes up a much smaller footprint making it ideal for both existing and new developments. Will heat the room more quickly than other heat emitters thereby reducing the amount of time your boiler or heat pump is running.



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 LL 1200	34	1.2 (4000)	1.6 (5400)	1.1 (3700)	1.4 (4800)	1.0 (3350)	1.3 (4300)	0.9 (3000)	1.1 (3900)
Ecovector LL 2000	57	2.0 (6900)	2.6 (8900)	1.9 (6400)	2.4 (8200)	1.6 (5500)	2.2 (7600)	1.5 (5000)	1.9 (6600)
Ecovector LL 2800	80	2.8 (9700)	3.5 (12100)	2.6 (9000)	3.2 (11050)	2.3 (8000)	2.9 (10000)	2.0 (6800)	2.6 (9000)

*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.

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 LL 1200	34	0.8 (2600)	1.0 (3450)	0.7 (2250)	0.8 (2900)	0.6 (1900)	0.7 (2500)	0.5 (1600)	0.6 (2050)
Ecovector LL 2000	57	1.3 (4550)	1.7 (5900)	1.2 (4050)	1.6 (5300)	1.0 (3500)	1.3 (4400)	0.9 (3050)	1.1 (3700)
Ecovector LL 2800	80	1.9 (6400)	2.4 (8100)	1.5 (5200)	2.1 (7200)	1.3 (4500)	1.8 (6100)	1.2 (4000)	1.5 (5200)

*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.

Model	Room Size Guide* (m ³)	Heat Output at 40°C	
		Normal kW (Btu/h)	Boost kW (Btu/h)
Hydronic			
Ecovector LL 1200	34	0.4 (1250)	0.5 (1600)
Ecovector LL 2000	57	0.7 (2500)	0.8 (2900)
Ecovector LL 2800	80	1.0 (3250)	1.2 (4200)

*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.

Model	Room Size Guide* (m ³)	Sound Levels		Casing Colour	Fan-Only
		Normal (dBA)	Boost (dBA)		
Hydronic					
Ecovector LL 1200	34	32	38	White	n/a
Ecovector LL 2000	57	35	40	White	n/a
Ecovector LL 2800	80	37	42	White	n/a

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 LL 1200	15mm	1.5m	n/a	n/a	n/a	3A	17	21	0.29
Ecovector LL 2000	15mm	1.5m	n/a	n/a	n/a	3A	26	55	0.58
Ecovector LL 2800	15mm	1.5m	n/a	n/a	n/a	3A	43	76	0.83



Ecovector® Low Level

Finish

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

Side panels: polymer eggshell white

Installation

- Mounting bracket supplied
- Unit must be earthed
- Suitable for two-pipe central heating systems
- Minimum height above floor level 150mm
- Maximum height above floor level 500mm

Commissioning

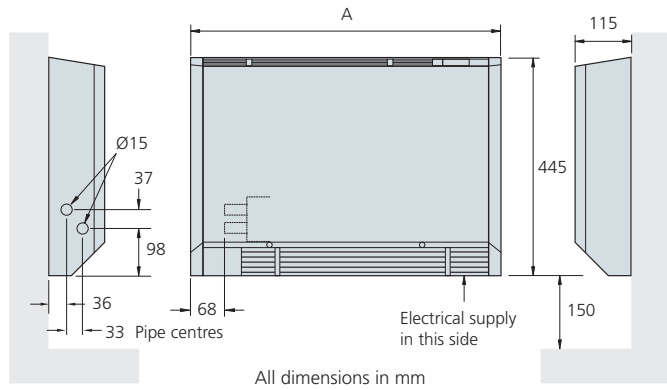
Check water is hot enough to activate the selectable low temperature cut-out thermostat.

Controls

Rocker switch - normal/off/boost.

Built-in room thermostat.

Low temperature cut-out thermostat set to energise fan at approximately 35°C.



Model	A
LL 1200	635
LL 2000	1025
LL 2800	1385

