

Versatile, energy efficient

heating



Featuring the new **Eco-Powerad®**

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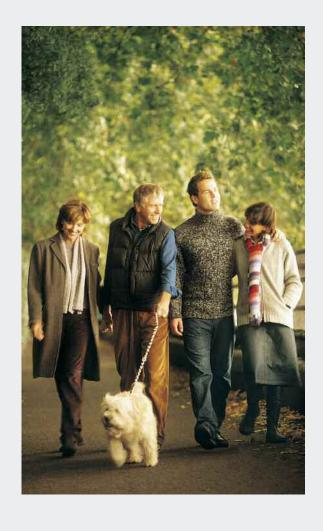




- Fan convectors
- Flame-effect fan convectors
- Natural convectors

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Fan Convector Technology - The Way Forward

Heating for a Sustainable Future

Energy is one of our most valuable resources, yet almost half the UK's carbon dioxide emissions, the main greenhouse gas causing climate change, actually come from the things we do every day. Every time we overfill the kettle or leave the heating on unnecessarily, we waste energy that results in needless carbon dioxide emissions.

Energy efficiency in our heating systems is slowly improving however, with standard efficiency boilers disappearing in favour of energy saving condensing boilers. In addition, renewable technologies such as ground and air source heat pumps and solar panels that allow us to use the earth's natural energy to heat our water, are more easily available and more viable.

Levels of structural insulation in new buildings are increasing, and the introduction of energy certification for new and existing buildings will continue to encourage improvements in energy efficiency.

Since the introduction of central heating systems, we have become familiar with large steel panel radiators in every room. However, to perform to maximum efficiency they need large volumes of very hot water, which means they are much less efficient in the modern heating systems of today, as water temperatures are much lower.

Fan convector technology has been available for many years. In independent tests carried out by BSRIA*, fan convectors were shown to use 24% less energy in heating up a room when installed as part of a boiler driven central heating system. Furthermore, when connected to a low temperature system such as those using ground or airsource heat pumps the energy saving increased to 31%.

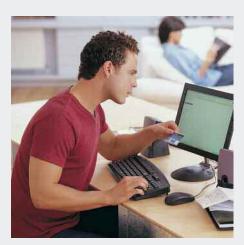
Additionally, fan convectors use only 5% of the water content of an equivalent output radiator. This results in a quicker heat up and is more responsive to our changing weather patterns. Equally important, they are compatible with every type of heat generator whether that be the standard efficiency boiler of yesterday, the energy saving condensing boilers of today or the renewable technology of tomorrow.



* BSRIA (Building Services Research and Information Association) tests were carried out in August 2008.







Why Choose Our Products?

If you're looking for energy efficiency and versatility in your heating look no further than the Smith's range of fan convectors, flame-effect fan convectors and natural convectors.

There are principally two ways to heat a room, either by natural convection or forced convection. Radiators, under-floor heating and perimeter heating use natural convection and fan convectors (and flame-effect fan convectors) use forced-air convection.



The natural convection process



Forced convection process





Independent tests show that fan convectors use at least 24% less energy than radiators in heating up a room. Additionally, they utilise only 5% of the water content of an equivalent output radiator and will therefore heat up a room much faster as well as responding quickly to constantly changing weather patterns.

Central heating system compatible

Fan convectors and flame-effect fan convectors work efficiently within central heating systems regardless of whether they are connected to a typical boiler or renewable technology such as ground and air source heat pumps.

Legislation

Capable of operating at system temperatures as low as 40°C, fan convectors assist in improving SAP ratings and are deemed as similar in efficiency to underfloor heating under the Code for Sustainable Homes.



Fan convectors and flame-effect fan convectors include a small fan so the heat can be quickly distributed around the room to give you a more even temperature spread.

Safe – low surface temperature

Unlike radiators which are hot to touch, fan convectors and flame-effect fan convectors have very low surface temperatures, making them completely safe and therefore ideal for children and the elderly.

Compact

Fan convectors are considerably smaller than the equivalent output radiators and are more versatile. They are designed to install in those 'dead' spaces, so you don't have to design the room around the heating.



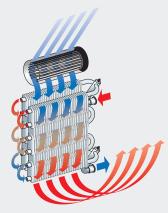




How they work

Fan Convectors

Fan convectors require connection to a 'wet' central heating system and an electrical connection to run the fan.



Hot water from the central heating system passes through the heat exchanger transferring its heat to the aluminium fins. Cooler air is drawn in by the fan and heated as it passes over the heat exchanger before being expelled gently back into the room. This gives a more even temperature and will heat a room in much less time than a traditional panel radiator.

On average usage in domestic applications flame-effect fan convectors use less than 2p (worth) of electricity per day.

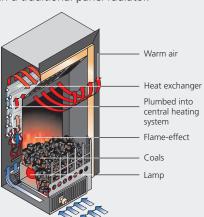
Flame-Effect Fan Convectors

These require connection to a wet central heating system and an electrical connection to run the flame-effect and fan.

Hot water from the central heating system passes through a heat exchanger and transfers its heat to the aluminium fins.

Cooler air is drawn in at floor level and used to create the flame-effect. The air is heated as it passes over the heat exchanger, a patented process that creates a realistic flame-effect, and then expelled gently back into the room.

This gives a more even temperature spread and will heat a room in much less time than a traditional panel radiator.



The fan will not come into operation until the central heating system water passing through the heat exchanger reaches 40°C (or the temperature set by the installer). This ensures that cooler air is not circulated at start up and allows Hydroflame to switch on and off automatically in conjunction with the central heating system.

On average usage in domestic applications flame-effect fan convectors use less than 3p (worth) of electricity per day.

Natural Convectors (Perimeter Heating)

These require connection to a wet central heating system. Hot water from the central heating system passes through the heat exchanger, transferring its heat to the aluminium fins. The natural movement of air gently circulates over the heat exchanger, is warmed and evenly distributed around the room.

Fan-Assisted Electric Heaters

Connect to an electrical system via a fused spur.

Fan-assisted heaters cost around 15 pence per hour for each 1kW of heat.

Running Costs – Domestic Installations

Fan convectors and flame-effect fan convectors use a very small amount of electricity to run the fan and bulb (flame-effect fan convectors only). Based on an annual usage of 1300 hours with electricity charged at 15p per kWh we calculate these electricity costs to be less than £5 per year for a fan convector and less than £10 per year for flame-effect fan convectors. In independent efficiency tests carried out by BSRIA* this electricity usage was taken into account, however these types of products were still shown to use at least 24% less energy in heating up a room.

* BSRIA (Building Services Research and Information Association) tests were carried out in August 2008.

What It Means

Hvdronic

Connects to and runs from a central heating system.

Hydronic Low Voltage

Suitable for bathrooms and other high humidity areas.

Connects to and runs from a central heating system but includes a transformer to convert your 240V supply to 12V making it safe to operate with wet hands.

Hydronic/Electric (Dual)

Connects to and runs from a central heating system but also includes an electric heating element to provide supplementary heating when the central heating system is switched off.

All Electric

Connects to and runs from a 240V electrical supply. Only suitable for bathrooms and other high humidity areas if operated by pull-cord or switch, remote from the room.

Room Size Guide (domestic applications only)

The figures quoted in the product performance tables use an average heat requirement of 35 watts per cubic metre of room space. (For room space multiply length x width x height).

40 watts per cubic metre is used for low voltage models, as these are designed for use in bathrooms or other high humidity areas which generally have a higher number of air changes per hour.

Important note: The figures quoted are strictly for guidance only and heat loss calculations for each room must still be carried out.

Operation

Fan convectors and flame-effect fan convectors will, if the heat output switch is left in either the normal or boost position, come on and off automatically with the central heating system. Each model includes a low temperature cut-out system, which prevents the product operating until the water temperature reaches a preset temperature. Electric fan-assisted heaters are designed to be switched on and off manually.



Fan-Only Option

Where indicated, models include a fan-only option which allows the fan to run for a cooling flow of air. This function only operates when the heating system is switched off.

The Effective Way to Heat the Home



The Smith's range of energyefficient, versatile heaters offers attractive, practical and economic solutions to heating all parts of the home. Whatever and wherever the heating requirement, there will be a Smith's product to suit.

- A Living Room/Dining Room
- B Bedroom
- C Hall
- D Kitchen/Utility Room
- E Bathroom/Ensuite
- F Conservatory
- G Home Office, Study, Workroom etc

Refer to pages 10-11 for a comprehensive Product Selector.



Eco-Powerad®

Fan convector

The fan convector of the future – energy efficient, responsive and capable of installation within any wet central heating system driven by either boilers or low temperature renewable technology. Compact, with smooth lines for overall visual simplicity and low surface temperature casing for complete safety.

See pages 20-21 for further details.



Α

Hydroflame®

Flame-effect fan convector A revolutionary form of heating – a flame-effect fan convector that runs off the central heating system but provides all the appeal of a traditional fire with none of the disadvantages. Highly efficient and cost effective, Hydroflame has no naked flames or hot surfaces and no potentially harmful carbon monoxide discharges, ensuring that Hydroflame is totally safe. There is a range of Inset and Freestanding models. A complementary range of attractive fireplace surrounds are available for

See pages 14-17 for further details.

Inset models



D E

Space Saver

Fan convector

The plinth-mounted Space Saver creates space in the kitchen or utility room for additional storage, more appliances and extra work surface. Stylish overlay fascia grilles are available in a variety of finishes to complement any interior. The range includes a Dual model, an all-electric model and also a low voltage model for bathrooms or other high humidity areas.

See pages 12-13 for further



Ecovector® Low Level

Fan convector

Combining stylish good looks with energy efficiency, Ecovector Low Level will appeal to those seeking a heat emitter that enhances and complements their living spaces. It also includes built-in thermostatic control and can easily be switched to work with renewable technologies. Low surface temperature casing for total safety.

See pages 22-23 for further



D E F G

Ecovector® High Level

Fan convector

Designed for unobtrusive fixing at high level for maximum use of wall space at working level. Particularly ideal for the conservatory to cope with the high heating demands but also appropriate for kitchens or simply where you want the heating out of harms way. All models can change over between existing boiler systems and renewable technology at the flick of a switch. Low voltage model for bathrooms and other high humidity areas.

See pages 24-25 for further details.



Ecovector® Vertical

Fan convector

Designed for installation into narrow spaces such as hallways and reception areas. A vertical low-level wall-mounted fan convector that can easily be switched between existing boiler systems and renewable technology. Low surface temperature casing for complete safety.

See pages 26-27 for further details.



Spacemaker

Fan convector

Installs neatly under the floor with only a hardwearing aluminium grille visible - the perfect solution for heating entrance halls, lobbies and other high traffic areas.

See pages 18-19 for further details.



Award

Fan convector

A flush-mounted fan convector means no projection beyond the surface of the wall – ideal for those areas where space may be at a premium. Low surface temperature casing for total safety.

See pages 18-19 for further details.



SygnetFan-assisted electric heater

Offering the option of either recessed or surface mounting – this practical, controllable, electric heater can be installed in areas not serviced by the central heating system.

See pages 18-19 for further details.



Sureline®

Natural convector

A natural convector fitted at skirting level – the ideal form of perimeter heating, providing gentle low-level warmth anywhere from conservatories, workrooms, hallways, waiting rooms or even the airing cupboard.

See pages 28-29 for further



Sterling

Fan convector

Designed for unobtrusive fixing at high level to maximise free wall space at working level. Ideal for kitchens, bathrooms, or simply where you want the heating out of harm's way.

Also available as an electric model for areas not serviced by a central heating system.

See pages 30-31 for further details.

The Effective Way to Heat the Workplace



The Smith's ranges of energyefficient, versatile heaters also offer attractive, practical and economic solutions to heating all parts of the workplace. Whether an office, shop, school or meeting room, there will be a Smith's product to suit.

- A Entrance Hall, Lobby
- B Large Office, Work Area
- Reception, Waiting Room
- D Corridor
- E Meeting Room
- F Cafeteria
- G Library

Refer to pages 10-11 for a comprehensive Product Selector.

A C D F

Sureline®

Natural convector

A natural convector fitted at skirting level – the ideal form of perimeter heating, providing gentle low-level warmth anywhere from waiting rooms, workshops, canteens, hallways and conservatories.

See pages 28-29 for further details.



Eco-Powerad®

Fan convector

The fan convector of the future – energy efficient, responsive and capable of installation within any wet central heating system driven by either boilers or low temperature renewable technology. Compact, with smooth lines for overall visual simplicity and low surface temperature casing for complete safety.

See pages 20-21 for further details



Ecovector® Low Level

Fan convector

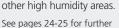
Combining stylish good looks with energy efficiency, Ecovector Low Level will appeal to those seeking a heat emitter that enhances and complements their working spaces. It also includes built-in thermostatic control and can easily be switched to work with renewable technologies. Low surface temperature casing for total safety. See pages 22-23 for further



A B C E F Ecovector® High Level

Fan convector

Designed for unobtrusive fixing at high level for maximum use of wall space at working level. Particularly ideal for the shops and offices where wall space is at a premium or in a nursery where you want the heating out of harms way. All models can change over between existing boiler systems and renewable technology at the flick of a switch. Low voltage model for bathrooms and other high humidity areas.





Ecovector® Vertical

Fan convector

Designed for installation into narrow spaces such as hallways and reception areas. A vertical low-level wall-mounted fan convector that can easily be switched between existing boiler systems and renewable technology. Low surface temperature casing for complete safety.

See pages 26-27 for further



Sterling

Fan convector

Designed for unobtrusive fixing at high level to maximise free wall space at working level. Ideal for kitchens, bathrooms, or simply where you want the heating out of harm's way. Also available as an electric model for areas not serviced by a central heating system.

See pages 30-31 for further details.



Staccato

Fan convector

A low-level, wall-mounted fan convector, with built-in thermostatic control, in a striking visual design to complement modern interiors. Front panel available in a range of seven colour options, with special colours available to order. Low surface temperature casing for complete safety. See pages 32-33 for further



A B C E F G Caspian

Fan convector

A floor or wall-mounted fan convector specially developed for a diversity of applications in commercial installations - ideal for meeting the heating requirements and the heavy duty demands of a larger room. Available in a range of eight models with heat outputs from 3 to 12kW. Low surface temperature casing for complete safety. See pages 34-35 for further



details

Skyline®

Fan convector

The ceiling-mounted Skyline provides the perfect solution to heating larger rooms such as showrooms, trade counters and large offices. Units install simply into a standard 600mm x 600mm ceiling tile space ensuring no encroachment on wall or floor space. There is also an all-electric model available.

See pages 36-37 for further

Product Selector

Here is the quick and easy way to find the ideal heater for your room. Whether at home, at work or at play there will be a Smith's heater that fits the bill.

Simply look for the room and we give you at least three choices of heater. The selector then explains the options for each of these models:

Domestic applications

√Good √Better √WBest

Non-domestic applications

√Good √Better ₩Best

- **Application** Where in the building the product is installed
- Operating options hydronic or low voltage hydronic (i.e. running from the central heating system), a combination of hydronic and electric, or all-electric
- **Product type** many of our products are available in a range of operating options (i.e. Sterling is available in hydronic, hydronic low voltage and allelectric)
- **Installation** where in the room the product is designed to be installed

This will enable you to make the best choice of heater for your room but if you need extra help, do not hesitate to contact us.



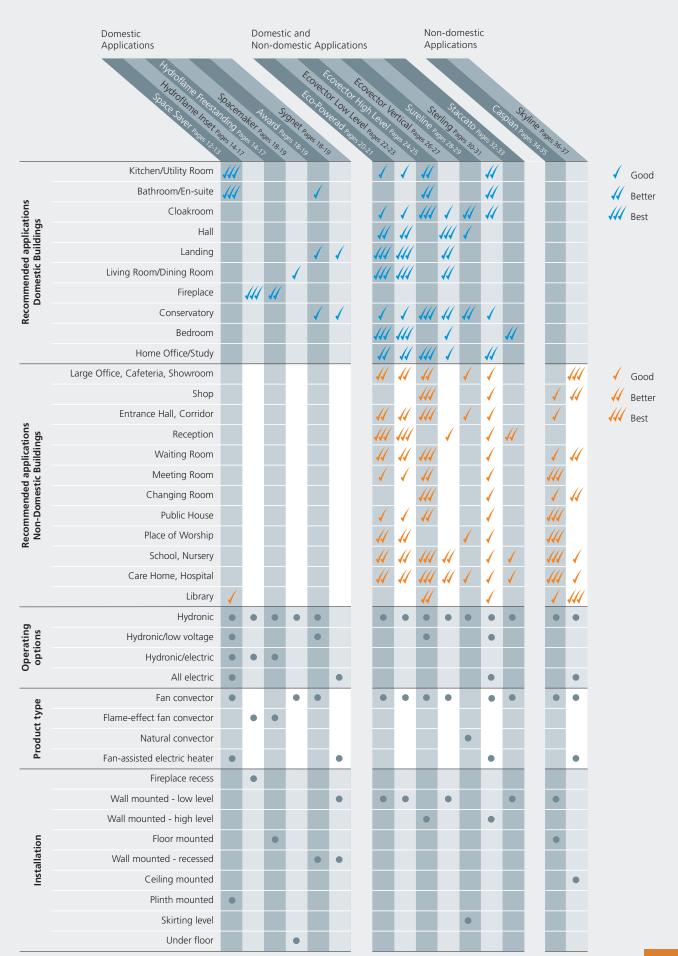












Space Saver

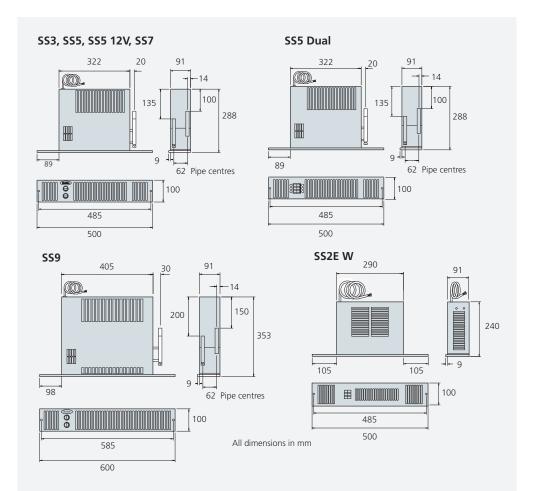
A highly energy efficient fan convector that fits neatly into the plinth of a kitchen unit. Space Saver eliminates the need for conventional radiators. And, as its name implies, this brings considerable space saving benefits – more room for extra storage units, more work surfaces, more space for kitchen appliances.

Space Saver is used predominantly for domestic applications where the ingenious plinth-mounting feature makes it ideal for heating kitchens, utility rooms and bathrooms. Plinth mounting also makes Space Saver ideal for certain non-domestic applications such as reception areas, changing rooms, libraries, etc.









		Heat Outp	ut ∆t 60°C	Heat Outp	ut ∆t 50°C	Sound	Levels		
Model	Room Size Guide* (m³)	Normal kW (Btu/h)	Boost kW (Btu/h)	Normal kW (Btu/h)	Boost kW (Btu/h)	Normal (dBA)	Boost (dBA)	Fascia Grille Finish	Fan- Only
Hydronic									
SS3	23	0.8 (2700)	0.9 (3100)	0.6 (2100)	0.8 (2700)	26	39	Brushed Steel	•
SS5	37	1.3 (4400)	1.7 (5800)	1.1 (3800)	1.4 (4700)	27	43	Brushed Steel	•
SS7	46	1.6 (5500)	1.9 (6500)	1.3 (4400)	1.6 (5500)	30	44	Brushed Steel	•
SS9	63	2.2 (7500)	2.4 (8200)	1.9 (6500)	2.1 (7200)	41	46	Brushed Steel	•
Hydronic Low Voltage									
SS5 12V	33	1.3 (4400)	1.7 (5800)	1.1 (3800)	1.4 (4700)	31	39	Brushed Steel	•
Hydronic/Electric (Dual)									
SS5 Dual	37	1.3 (4400)	1.7 (5800)	1.1 (3800)	1.4 (4700)	27	43	Brushed Steel	•
			1.0	-	1.0	_			
Electric									
SS2E W	29	1.0	2.0	1.0	2.0	42	42	White	•
		In hydronic	mode In	electric mode					

^{*}Room sizes given in cubic metres for general guidance only based on normal heat output (Δt 60°C) for domestic applications - always calculate heat losses. Δt 60°C assumes a mean water temperature of 80°C and room temperature of 20°C. At 50°C assumes a mean water temperature of 70°C and room temperature of 20°C. Hydronic outputs tested in accordance with BS 4856. Fan-only option operational only when central heating system is switched off. Dual models include an electric element which in electric heating mode will emit 1kW of heat. Sound levels measured at 1.5m.

Model	Flow & Return Connections	Mains Cable	Transformer	Flexible Hoses	Isolating Valves	Fused Spur	Power Con Normal (Watts)	nsumption Boost (Watts)	Water Capacity (Litres)
Hydronic									
SS3	15mm	2.0m	n/a	n/a	n/a	3A	16	25	0.34
SS5	15mm	2.0m	n/a	•	n/a	3A	21	30	0.36
SS7	15mm	2.0m	n/a	•	n/a	3A	21	30	0.38
SS9	15mm	2.0m	n/a	•	n/a	3A	24	35	0.43
Hydronic Low Volta	ige								
SS5 12V	15mm	0.45m	•	•	n/a	3A	21	30	0.36
Hydronic/Electric (D	Dual)								
SS5 Dual	15mm	2.0m	n/a	•	n/a	5A	21	30	0.36
							1012	1018	n/a
Electric									
SS2E W	n/a	2.0m	n/a	n/a	n/a	10A	1012	2025	n/a
							In hydron	ic mode	In electric mode

Space Saver

Fascia Grille Finish

SS2E W - Zinc coated steel polyester powder coated white - RAL 9010. All other models - Zinc coated steel polyester powder coated - metallic silver

Installation

Important:

Correct fascia grille opening must be cut to allow sufficient air intake.

- 20mm clearance above unit required
- Model secured to plinth by two screws through fascia grille
- Unit must be earthed (not 12 volt SELV)
- · Suitable for two-pipe central heating systems only

Accessories

Wall mounted room thermostat.

Grilles: brown - RAL 8016, black - RAL 9005, white - RAL 9010, chrome, aluminium, gold. For SS2E W only, overlay grilles are available in brown - RAL 8016, black - RAL 9005, brushed steel, chrome, aluminium, gold,

Commissioning

Check water temperature is hot enough to activate low temperature cut-out thermostat (LTC). Vent screw accessible through fascia grille.

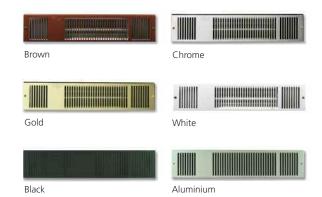
SS2E W: three rocker switches, fan-off/fan-only, 1kW, 2kW.

Overheat protection: thermal cut-out. Manual reset procedure: switch power off at unit or mains, wait 5 minutes, switch power on.

SS5 W/Dual: three rocker switches, heating/off/fan-only, hydronic/electric, normal/boost. Low temperature cut-out thermostat set to energise fan at approximately 38°C.

All other models: two rocker switches -normal/off/boost, heating/fan-only.

Low temperature cut-out thermostat set to energise fan at approximately 38°C.



Alternative Grille Finishes

Space Saver models are supplied with a detachable brushed steel fascia grille. Fascia grilles are also available in the above colours.

SS2E W supplied with fixed white grille. Overlay grilles available in brown, black, brushed steel, chrome, aluminium and gold.

Hydroflame®_{Patented}





Freestanding Classic Brass



Freestanding Elite Brass



Freestanding Classic Chrome



Freestanding Elite Chrome

Flame-effect fan convectors that run off the central heating system, but with all the visual appeal of a real fire – a beautiful feature in any room. Efficient, cost effective and totally safe, with no harmful discharges. Ideal for children and the elderly because there are no flames or hot surfaces. Available in Inset or Freestanding and a choice of eyecatching designs. Hydroflame Classic and Elite can be supplied with an attractive choice of trims and complementary fireplace surrounds.

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

Hydroflame® Simplicity Fireplace Suite

The Simplicity Fireplace Suite combines the revolutionary Hydroflame flame-effect fan convector with a choice of beautiful fireplace surrounds and mantels as part of a convenient, single package.

The Simplicity Fireplace Suite can be used with any of the Elite or Classic Inset models.

An attractive choice of fireplace surrounds

The fireplace surrounds, designed specifically for use with Hydroflame, are available in an eyecatching choice of effects and finishes:

- Cream with cream back plate and hearth
- 2 Yew with black back plate and hearth
- 3 Yew with cream back plate and hearth
- 4 Antique Oak with black back plate and oak hearth
- Antique Oak with cream back plate and oak hearth

Benefits

The Simplicity Fireplace Suite offers significant benefits over those available from other suppliers:

- The depth of the fireplace rebate allows for all Hydroflame Inset models to be fitted with the fireplace against a flat wall
- There are several access positions in the hearth to accept the central heating pipe work
- The mantel and legs are removable from the hearth for easier access during installation





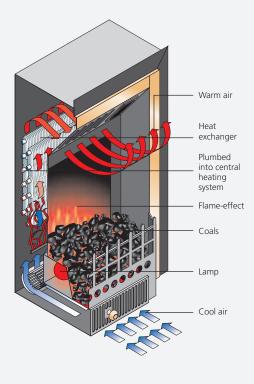






How Hydroflame® Works

Flame-effect fan convectors require connection to the wet central heating system and an electrical connection to run the flame-effect and fan.



Hot water from the central heating system passes through a heat exchanger and transfers its heat to the aluminium fins

Cooler air is drawn in at floor level and used to create the flame-effect. The air is heated as it passes over the heat exchanger, a patented process that creates a realistic flame-effect, and then expelled gently back into the room.

This gives a more even temperature and will heat a room in much less time than a traditional panel radiator.

The fan will not come into operation until the central heating system water passing through the heat exchanger reaches 40°C (or the temperature set by the installer). This ensures that cooler air is not circulated at start up and allows Hydroflame to switch on and off automatically in conjunction with the central heating system.

Flame-effect fan convectors are energy efficient and in the home will add less than £10.00* to your annual heating bill.

Dual models include an electric heating element – ideal in spring and summer when you may need a quick warm up but the central heating system is switched off.

Note: *based on electricity charged at 15p/kWh.

$Hydroflame^{\text{\it \it R}}_{\text{\tiny Patented}}$

Room Size	Heat Output Δt 60°C Normal Boost	Heat Output ∆t 50°C Normal Boost	Sound Levels Normal Boost	Flame-
Guide*(m³)	kW (Btu/h) kW (Btu/h)	kW (Btu/h) kW (Btu/h)	(dBA) (dBA)	Trim Colour Effect Only
43	1.5 (5100) 2.0 (6800)	1.2 (4100) 1.6 (5500)	27 43	Brass or Chrome •
43	1.5 (5100) 2.0 (6800)	1.2 (4100) 1.6 (5500)	27 43	Brass or Chrome •
43	1.5 (5100) 2.0 (6700) 1.5 -	1.2 (4100) 1.6 (5500) 1.5 -l	27 43	Brass or Chrome •
43	1.5 (5100) 2.0 (6800)	1.2 (4100) 1.6 (5500)	27 43	Brass or Chrome •
	Guide*(m³) 43 43 43	Room Size Guide*(m³) A3 1.5 (5100) 2.0 (6800) 43 1.5 (5100) 2.0 (6800) 43 1.5 (5100) 2.0 (6700) 1.5	Room Size Guide*(m³) Normal kW (Btu/h) Boost kW (Btu/h) Normal kW (Btu/h) Boost kW (Btu/h) 43 1.5 (5100) 2.0 (6800) 1.2 (4100) 1.6 (5500) 43 1.5 (5100) 2.0 (6800) 1.2 (4100) 1.6 (5500) 43 1.5 (5100) 2.0 (6700) 1.2 (4100) 1.6 (5500) 43 1.5 (5100) 2.0 (6800) 1.2 (4100) 1.6 (5500) 43 1.5 (5100) 2.0 (6800) 1.2 (4100) 1.6 (5500)	Room Size Guide*(m³) Normal kW (Btu/h) Boost kW (Btu/h) Normal kW (Btu/h) Boost kW (Btu/h) Normal kW (Btu/h) Boost (dBA) 43 1.5 (5100) 2.0 (6800) 1.2 (4100) 1.6 (5500) 27 43 43 1.5 (5100) 2.0 (6800) 1.2 (4100) 1.6 (5500) 27 43 43 1.5 (5100) 2.0 (6700) 1.2 (4100) 1.6 (5500) 27 43 43 1.5 (5100) 2.0 (6800) 1.2 (4100) 1.6 (5500) 27 43 43 1.5 (5100) 2.0 (6800) 1.2 (4100) 1.6 (5500) 27 43

In hydronic mode In electric mode

^{*}Room sizes given in cubic metres for general guidance only based on normal heat output (Δt 60°C) for domestic applications - always calculate heat losses. Δt 60°C assumes a mean water temperature of 80°C and room temperature of 20°C. At 50°C assumes a mean water temperature of 70°C and room temperature of 20°C. Hydronic outputs tested in accordance with BS 4856. Dual models include an electric element which in electric heating mode will emit 1.5kW of heat. Sound levels measured at 1.5m.

Model	Flow & Return Connections	Mains Cable	Transformer	Flexible Hoses	Isolating Valves	Fused Spur	Power Cor Normal Watts	Boost Watts	Water Capacity (Litres)
Hydronic									
Inset (Classic & Elite)	15mm	2.0m	n/a	•	•	3A	29	36	0.36
Freestanding (Classic & Elite)	15mm	2.0m	n/a	•	•	3A	29	36	0.36
Hydronic/Electric									
Inset Dual (Classic & Elite)	15mm	2.0m	n/a	•	•	10A	29	36 1518	0.36 1518
Freestanding Dual	15mm	2.0m	n/a	•	•	10A	29	36 1518	0.36 1518
							In hydron	ic mode	In electric mode

Hydroflame® Classic & Elite

Connects to and runs from your central heating system (hydronic mode).

Installation

- Inset model designed for a recess 400mm x 550mm high
- Unit must be earthed
- Suitable for two-pipe central heating systems only
- Surface temperature of the casing complies with the safety requirement DHSS DN4

Commissioning

Check water temperature is hot enough to activate low temperature cut-out device (LTC).

Control

Two rocker switches: normal/off/boost, flame-effect on/flame-effect off.

Variable low temperature cut- out device factory set to energise fan at approximately 40°C (104°F). Set temperature can be adjusted higher or lower during installation.

Built-in room thermostat.

Hydroflame® Dual Classic & Elite

Connects to and runs from your central heating system (hydronic mode), but also includes an electric heating element for use when the central heating is switched off.

Installation

- Inset Dual model designed for a recess 400mm x 550mm high
- Unit must be earthed
- Suitable for two-pipe central heating systems only
- Surface temperature of the casing complies with the safety requirement DHSS DN4

Commissioning

Check water temperature is hot enough to activate low temperature cut-out device (LTC).

Control

Three rocker switches: normal/off/boost, hydronic/electric, flame-effect on/flame-effect off.

Variable low temperature cut-out device factory set to energise fan at approximately 40°C (104°F). Set temperature can be adjusted higher or lower during installation. Built-in room thermostat.

Hydroflame® running costs

(Models fitted with 11W energy-saving long-life bulb)

Annual Usage (Hours)	Running Costs (£) 11W Bulb 29W Fan Annual Tota						
1100	1.82	4.79	6.60				
1300	2.15	5.65	7.80				
1700	2.81	7.39	10.20				
2500	4.13	10.87	15.00				

Assumptions

Electricity charged at 15p per kWh. Hydroflame operating on normal - 1.5kW heat output. Excludes use of electric heating element.

Hydroflame® design options

Trim (Colour		
Brass	Chrome		
•	•		
•	•		
•	•		
•	•		
•	•		
•	•		
•	•		
•	•		

Technical Information

Hydroflame hydronic flame-effect fan convectors are the environmentally friendly product of choice for living room heating. Once you appreciate the benefits and efficiencies of Hydroflame, electric, gas or open fires are simply not an option.

Completely safe

Hydroflame is safe because it uses water from the central heating system to produce heat.

- No independent gas supply needed
- No flue gases are produced so a flue and CO detector are not required
- No live flames, hot coals or elements
- Low surface temperatures
- No special ventilation required
- Hidden fixings for extra security
- No minimum room size

A beautiful focal feature in the room

Stylish and attractive appearance characterises Hydroflame's innovative design.

- Fit on any internal or external wall surface, into a fireplace opening, or in front of a fireplace surround
- Can be used simply to replace an existing panel radiator
- Can show a comforting flame-effect with or without the heating being switched on

Simple controls

Operating Hydroflame could not be simpler.

- Clearly labelled, easy action rocker switches
- Easy to use by elderly or infirm people

Minimal running costs

Hydroflame has a unique method of operation that brings significant savings on running costs.

 Operates as part of the central heating system, where average usage on normal heat output will add less than £10.00 a year to annual heating bills (excluding any separate use of the electric heating element on Dual models). See table of running costs

Environmentally friendly

Hydroflame has less of an impact on the environment than electric, gas or open fire alternatives.

- No harmful gases expelled to the atmosphere
- Automatic response to water temperature, providing the correct amount of heat when needed
- Thermostatically controlled
- Slower fan speed for flame-effect only reduces energy consumption
- Energy saving light bulb

Easy to install

Hydroflame is economical and straightforward to install

- No gas supply or flue required fix to any wall, internal and external
- No chimney or flue liners required
- Inset models fit standard fireplace openings no need for a replacement surround
- Flexible hoses, isolation valves and pre-wired electric cable supplied as standard
- Connects to standard central heating pipe work

For full installation instructions refer to the Hydroflame Installation & User Guide, which is available on request; or download it from www.smiths-env.com.

Low maintenance

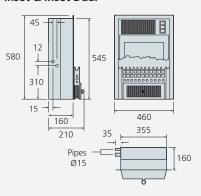
Cost effective and convenient.

- No need for annual servicing or safety checks
 so no access to the property is required
- Easy to change the lamp
- Easy for homeowner to clean the filter system

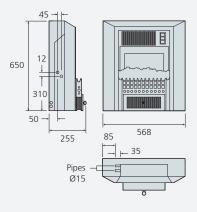
Very low water content

Each Hydroflame has a very low water content of 0.36 litres, around 5% of the water content of an equivalent output steel panel radiator.

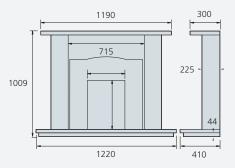
Inset & Inset Dual



Freestanding & Freestanding Dual

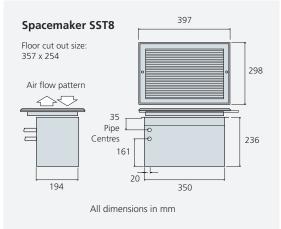


Fireplace Surround



All dimensions in mm

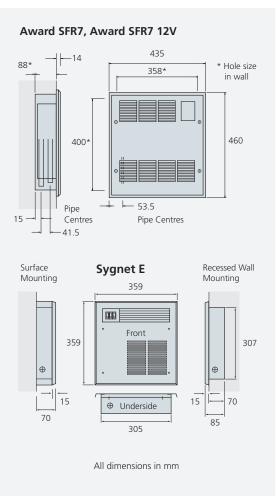




Spacemaker

Perfect for places in the home where space is particularly limited. A fan convector that installs flush with the floor, providing efficient and effective heat at low level. Ideal for spaces such as entrance halls, lobbies, circulation areas and applications where wall space is limited.





Model	Room Size Guide* (m³)	Heat Outp Normal kW (Btu/h)	ut Δt 60°C Boost kW (Btu/h)	Heat Outp Normal kW (Btu/h)	ut ∆t 50°C Boost kW (Btu/h)	Sound Normal (dBA)	Levels Boost (dBA)	Casing Colour	Fan- Only
Hydronic									
Award SFR7	46	1.6 (5500)	2.2 (7500)	1.3 (4400)	1.8 (6100)	33	45	White	n/a
Spacemaker SST8	46	1.6 (5500)	2.2 (7500)	1.3 (4400)	1.8 (6100)	32	39	Anodised aluminium grille	n/a
Hydronic Low Voltage									
Award SFR7 12V	40	1.6 (5500)	2.2 (7500)	1.3 (4400)	1.8 (6100)	33	45	White	n/a
Electric						•			
Sygnet E	29	1.0	2.0	1.0	2.0	49	49	White	•

^{*}Room sizes given in cubic metres for general guidance only based on normal heat output (Δt 60°C) for domestic applications - always calculate heat losses. Δt 60°C assumes a mean water temperature of 80°C and room temperature of 20°C. Hydronic outputs tested in accordance with BS 4856. Sound levels measured at 1.5m.

Model	Flow & Return Connections	Mains Cable	Transformer	Flexible Hoses	Isolating Valves	Fused Spur	Power Con Normal Watts	nsumption Boost Watts	Water Capacity (Litres)
Hydronic									
Award SFR7	15mm	1.5m	n/a	n/a	n/a	3A	20	30	0.36
Spacemaker SST8	15mm	1.5m	n/a	n/a	n/a	3A	20	30	0.27
Hydronic Low Voltage									
Award SFR7 12V	15mm	0.45m	•	n/a	n/a	3A	20	30	0.36
Electric									
Sygnet E	n/a	2.0m	n/a	n/a	n/a	10A	1012	2025	n/a

Spacemaker SST8

Finish

Anodised aluminium grille with removable centre section.

Installation

- Installs between floor joists or purpose made trenches in concrete floors
- Air intake and discharge through grille
- Unit must be earthed
- Suitable for two-pipe central heating systems only

Commissioning

Check water temperature is hot enough to activate low temperature cut-out (LTC). Vent screw accessible through grille.

Controls

Rocker switch - normal/off/boost - below grille.

Low temperature cut-out thermostat set to energise fan at approx. 42°C (108°F).

Accessories

Wall-mounted room thermostat.

Award SFR7 & Award SFR7 12V

Finish

Front casing 0.9mm zinc coated steel, polyester powder-coated. Paint specification: textured white BS 4800 00A01 18% gloss.

Installation

- Installs into stud walls
- Brickwork installation requires wood frame (not supplied)
- Transformer supplied with SELV model. Must be fitted remote from the bathroom/high humidity area
- Unit must be earthed (not 12 volt SELV)
- Suitable for two-pipe central heating systems only
- Surface temperature of the casing complies with the safety requirement DHSS DN4

Commissioning

Check water temperature is hot enough to activate low temperature cut-out (ITC)

Controls

Rocker switch - normal/off/boost.

Low temperature cut-out thermostat set to energise fan at approx. 42°C (108°F).

Accessories

Wall-mounted room thermostat.

Sygnet E

Finish

Front casing and surface mounting kit 0.9mm zinc coated steel, polyester powder-coated. Paint specification: textured white BS 4800 00A01 18% gloss.

Installation

- May be recessed in stud walls or surface mounted
- Brickwork installation requires wood frame (not supplied)
- Unit must be earthed

Controls

Three rocker switches, fan off/fan-only, 1kW, 2kW.

Overheat protection: thermal cut-out. Manual reset procedure: switch power off at unit or mains, wait five minutes, switch power on.

Accessories

Wall-mounted room thermostat.



Smaller than a radiator, yet bigger on output, this fan convector combines elegant good looks with energy efficiency. Its smooth lines and overall visual simplicity will appeal to those seeking a heat emitter that enhances and complements their living or working spaces.

Providing warmth from the floor upwards – the ideal heating pattern – the Eco-Powerad fan convector is up to 31% more efficient than an equivalent output radiator and will operate effectively on wet central heating systems whether driven by boilers or low temperature renewable technologies.

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.

Eco-Powerad installs just like a radiator using the same pipe work and valves but is less than half the weight and takes up a much smaller footprint making it easier to handle in both existing and new developments.

Simple to operate, Eco-Powerad fan convectors switch on and off automatically with the central heating system, and with the addition of thermostatic radiator valves they will provide efficient room temperature control.



Model	Room Size Guide* (m³)	Heat Output at 75°C kW (Btu/h)	Heat Output at 70°C kW (Btu/h)	Heat Output at 65°C kW (Btu/h)	Heat Output at 60°C kW (Btu/h)	Heat Output at 55°C kW (Btu/h)	Heat Output at 50°C kW (Btu/h)	Heat Output at 45°C kW (Btu/h)	Heat Output at 40°C kW (Btu/h)	Heat Output at 35°C kW (Btu/h)
Hydronic										
Eco-Powerad 500	14	0.85 (2900)	0.80 (2725)	0.70 (2400)	0.60 (2050)	0.55 (1875)	0.50 (1700)	0.40 (1375)	0.30 (1025)	0.25 (850)
Eco-Powerad 1000	29	2.10 (7150)	1.80 (6150)	1.60 (5450)	1.40 (4775)	1.20 (4100)	1.00 (3400)	0.80 (2725)	0.70 (2400)	0.60 (2050)
Eco-Powerad 1500	43	2.40 (8200)	2.20 (7500)	2.00 (6825)	1.90 (6475)	1.70 (5800)	1.50 (5125)	1.20 (4100)	0.90 (3075)	0.70 (2400)
Eco-Powerad 2000	57	3.50 (11950)	3.20 (10925)	2.80 (9550)	2.50 (8525)	2.25 (7675)	2.00 (6825)	1.70 (5800)	1.35 (4600)	1.00 (3400)

^{*}Based on 35 watts per cubic metre at 50°C water temperature.

Heat outputs based on exiting water temperature.

Model	Sound Levels* (dBA)	Casing Colour	Flow & Return Connections	Mains Cable	Transformer	Flexible Hoses	Isolating Valves	Fused Spur	Power Consumption (Watts)	Water Capacity (Litres)
Hydronic										
Eco-Powerad 500	35	White	15mm	2m	n/a	n/a	n/a	3A	15	0.17
Eco-Powerad 1000	36	White	15mm	2m	n/a	n/a	n/a	3A	18	0.28
Eco-Powerad 1500	37	White	15mm	2m	n/a	n/a	n/a	3A	33	0.44
Eco-Powerad 2000	38	White	15mm	2m	n/a	n/a	n/a	3A	36	0.55

^{*}Measured at 1.5m.

Eco-Powerad®

Finish

Front casing: zinc coated steel.
Polyester powder-coated: white RAL 9010.

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

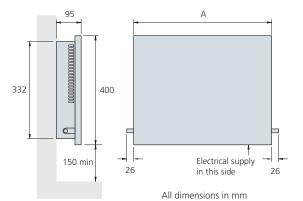
Commissioning

Check water is hot enough to activate the low temperature cut-out thermostat. Ensure system is balanced for even heat distribution.

Controls

Low temperature cut-out thermostat, set to energise fan at approximately 38°C.

Suitable for thermostatic radiator valves (TRV) – not supplied.



Model	A
Eco-Powerad 500	485
Eco-Powerad 1000	845
Eco-Powerad 1500	1210
Eco-Powerad 2000	1570

Ecovector® Low Level



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.

Model	Room Size Guide* (m³)	Heat Outp Normal kW (Btu/h)	out Δt 60°C Boost kW (Btu/h)	Heat Outp Normal kW (Btu/h)	out ∆t 50°C Boost kW (Btu/h)	Heat Outp Normal kW (Btu/h)	out ∆t 20°C Boost kW (Btu/h)	Sound I Normal (dBA)	Levels Boost (dBA)	Casing Colour	Fan- Only
Hydronic											
Ecovector LL 1200	34	1.2 (4000)	1.6 (5400)	1.0 (3400)	1.3 (4300)	0.4 (1200)	0.5 (1600)	32	38	White	n/a
Ecovector LL 2000	57	2.0 (6900)	2.6 (8800)	1.6 (5500)	2.2 (7600)	0.7 (2500)	0.9 (2900)	35	40	White	n/a
Ecovector LL 2800	80	2.8 (9700)	3.5 (11950)	2.3 (8000)	2.9 (10000)	1.0 (3200)	1.2 (4200)	37	42	White	n/a

^{*}Room sizes given in cubic metres for general guidance only based on low heat output (Δt 60°C) for domestic applications - always calculate heat losses. Δt 60°C assumes a mean water temperature of 80°C and room temperature of 20°C. At 50°C assumes a mean water temperature of 70°C and room temperature of 20°C. Hydronic outputs tested in accordance with BS 4856. Sound levels measured at 1.5m.

Model	Flow & Return Connections	Mains Cable	Transformer	Flexible Hoses	Isolating Valves	Fused Spur	Power Cor Normal Watts	nsumption Boost Watts	Water Capacity (Litres)
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

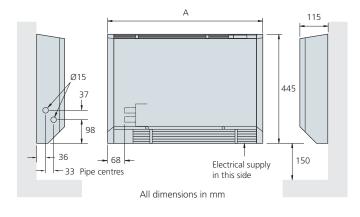
Check water is hot enough to activate the selectable low temperature cut-out thermostat.

Controls

Rocker switch - normal/off/boost.

Built-in room thermostat.

Selectable low temperature cut-out thermostat, set to 35°C for heating systems run from renewable technology and 52°C for standard and condensing boiler heat generators.



Model	А
LL 1200	635
LL 2000	1025
LL 2800	1385



Ecovector® High Level



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.



Model	Room Size Guide* (m³)	Heat Outp Normal kW (Btu/h)	out Δt 60°C Boost kW (Btu/h)	Heat Outp Normal kW (Btu/h)	out Δt 50°C Boost kW (Btu/h)	Heat Outp Normal kW (Btu/h)	out Δt 20°C Boost kW (Btu/h)	Sound I Normal (dBA)	L evels Boost (dBA)	Casing Colour	Fan- Only
Hydronic											
Ecovector HL 1000	29	1.0 (3500)	1.4 (4700)	0.9 (3100)	1.1 (3800)	0.4 (1300)	0.5 (1800)	32	40	White	•
Ecovector HL 2300	66	2.3 (7800)	3.1 (10500)	1.9 (6400)	2.5 (8500)	0.9 (3000)	1.2 (4000)	34	50	White	•
Ecovector HL 2900	-	2.9 (10000)	4.2 (14500)	2.5 (8500)	3.5 (12000)	1.1 (3800)	1.6 (5500)	37	51	White	•
Ecovector HL 4000	-	4.0 (13500)	5.3 (18000)	3.3 (11300)	4.4 (15100)	1.5 (5100)	2.0 (6800)	39	52	White	•
Hydronic Low Voltage	e										
Ecovector HL 1000-12V	/ 25	1.0 (3500)	1.4 (4700)	0.9 (3100)	1.1 (3800)	0.4 (1300)	0.5 (1800)	32	39	White	•

^{*}Room sizes given in cubic metres for general guidance only based on normal heat output (Δt 60°C) for domestic applications - always calculate heat losses. Δt 60°C assumes a mean water temperature of 80°C and room temperature of 20°C. Δt 50°C assumes a mean water temperature of 70°C and room temperature of 20°C. Δt 20°C assumes a mean water temperature of 40°C and room temperature of 20°C. Hydronic outputs tested in accordance with BS 4856. Fan-only option operational only when central heating system is switched off. Sound levels measured at 1.5m.

Model Hydronic	Flow & Return Connections	Mains Cable	Transformer	Flexible Hoses	Isolating Valves	Fused Spur	Power Cor Normal Watts	nsumption Boost Watts	Water Capacity (Litres)
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	ЗА	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.

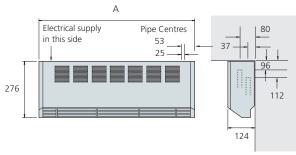
Controls

Two rocker switches - normal/off/boost, heating/fan-only. Selectable low temperature cut out thermostat, set at 35°C for heating systems run from renewable technologies and 52°C for standard and condensing boiler heat generators.

Accessorv

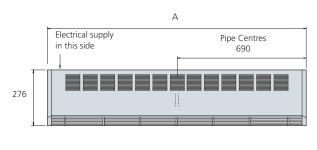
Wall-mounted room thermostat.

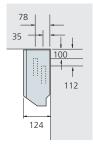
Ecovector® HL 1000, 1000-12V, 2300, 2900



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

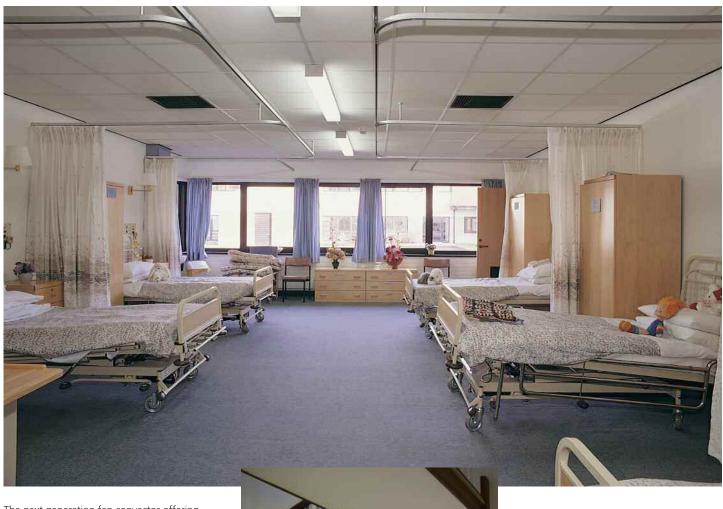
Ecovector® HL 4000





All dimensions in mm

Ecovector® Vertical



The next generation fan convector offering energy efficiency, safety with its low surface temperature casing and controllability with built-in room thermostat. Suitable for use on both existing boiler systems and those driven by renewable technology such as ground or airsource heat pumps. Using only 5% of the water content of an equivalent output radiator the Ecovector Vertical 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 underfloor heating or radiators. Will heat the room more quickly than other heat emitters thereby reducing the amount of time your boiler or heat pump is running.



		Heat Outp	ut ∆t 60°C	Heat Outp	ut ∆t 50°C	Heat Outp	ut ∆t 20°C	Sound I	Levels		
	Room Size	Normal	Boost	Normal	Boost	Normal	Boost	Normal	Boost	Casing	Fan-
Model	Guide* (m³)	kW (Btu/h)	(dBA)	(dBA)	Colour	Only					
Hydronic											
Ecovector VE 2500	71	2.5 (8500)	2.6 (8800)	2.0 (6900)	2.1 (7300)	0.9 (3200)	1.0 (3400)	36	39	White	n/a

^{*}Room sizes given in cubic metres for general guidance only based on normal heat output (Δt 60°C) for domestic applications - always calculate heat losses. Δt 60°C assumes a mean water temperature of 80°C and room temperature of 20°C. Δt 50°C assumes a mean water temperature of 70°C and room temperature of 20°C. Δt 20°C assumes a mean water temperature of 40°C and room temperature of 20°C. Hydronic outputs tested in accordance with BS 4856. Fan-only option operational only when central heating system is switched off. Sound levels measured at 1.5m.

	[] 0 D-t	N 4 = i = =		ri				nsumption	NA/-t Cit
Model	Flow & Return Connections	Mains Cable	Transformer	Flexible Hoses	Isolating Valves	Fused Spur	Normal Watts	Boost Watts	Water Capacity (Litres)
Hydronic									
Ecovector® VE 2500	15mm	1.5m	n/a	n/a	n/a	3A	28	36	0.75

Ecovector® Vertical

Einich

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

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.

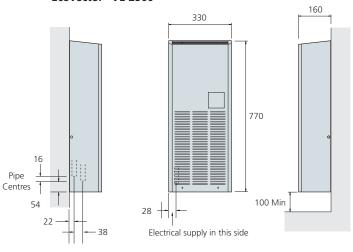
Controls

Rocker switch - normal/off/boost.

Built-in room thermostat.

Selectable low temperature cut-out thermostat, set to 35° C for heating systems run from renewable technologies and 52° C for standard and condensing boiler heat generators.

Ecovector® VE 2500



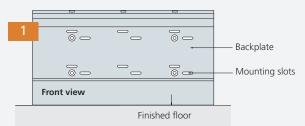
All dimensions in mm



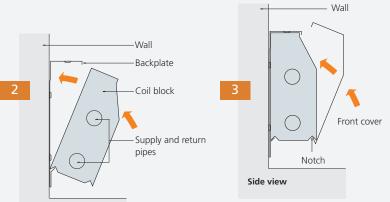
A natural convector easily fitted at skirting level – the ideal form of perimeter heating, providing gentle low-level warmth anywhere from conservatories to waiting rooms.



Installs in a 'snap'



Mount Backplate - fasten to wall through mounting slots provided (20 per metre). Minimum clearance above floor - 50mm.



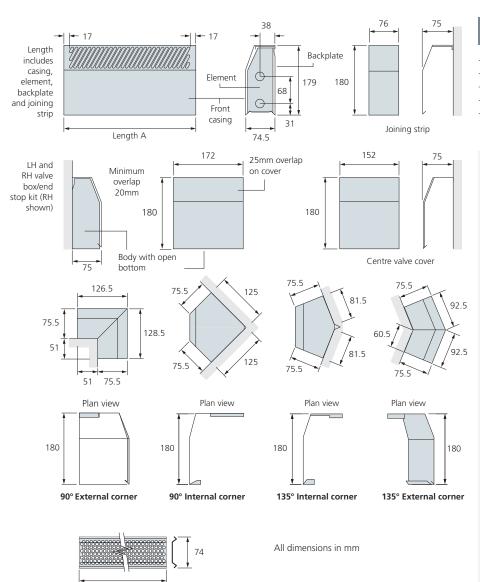
'Snap' in Coil Block - engage back notch onto lower lip of the Backplate and pivot the Coil Block towards the wall until it 'Snaps' into place.

Finished floor

Side view

'Snap' on Cover - after pipe connections are completed, place lower lip of cover into front notch in the Coil Block and pivot towards the wall until it 'Snaps' over the Backplate.

	Heat Output Flow Rate W/m (Btu/h/m) @ average water temperature								
		(m/s)	50°C	55°C	60°C	65°C	70°C	75°C	80°C
>==== >====	Two supplies - Parallel	1.0	270 (930)	370 (1250)	470 (1590)	550 (1870)	650 (2200)	750 (2550)	850 (2890)
—	Bottom supply - Top return	1.0	260 (880)	350 (1190)	440 (1490)	510 (1730)	570 (1950)	680 (2330)	750 (2560)



500 or 1000

Finger guard

Model	Length A (mm)
Sureline 500	500
Sureline 1000	1000
Sureline 1500	1500
Sureline 2000	2000
Sureline 1000C*	1000

^{*} casing only

Sureline®

Finish

Outer casing 0.7mm zinc coated steel. Polyester powder-coated. Paint specification: textured white BS 4800 00A01 18% gloss. Each length includes casing, element, backplate and joining strip. Casing only includes casing, backplate and joining strip.

Installation

- Minimum clearance above floor 50mm
- Flow and return connections 22mm copper
- Designed for system pressures up to 10 bar
- Suitable for two pipe central heating systems only

Attachments

- 1000mm casing only (includes backplate)
- LH and RH valve box/end stop kit (includes casing with integral end stop and knock-out for thermostatic valves
- Centre valve cover
- 90° internal corner
- 90° external corner
- 135° internal corner135° external corner
- Finger guard*

Customised Requirements

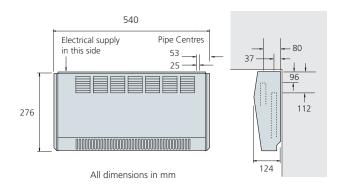
We are able to offer casings painted in any colour. Price and availability will be confirmed at the time of order.

^{*}We recommended the use of finger guards in installations where infants have access to the underside of Sureline.

Wall-mounted fan convector that is ideal for home, office and a wide variety of other non-domestic applications. Models available for areas of high humidity such as bathrooms and swimming pool areas. Fitted unobtrusively above head height, Sterling makes maximum use of wall space with a safe, high-level heat source.



Sterling Hydronic 1000-240V, 1000-12V



Sterling Hydronic

inish

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 (not 12 volt SELV)
- Suitable for two-pipe central heating systems only

Commissioning

Check water temperature is hot enough to activate low temperature cut-out (LTC). 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 35°C.

Accessory

Wall-mounted room thermostat.

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

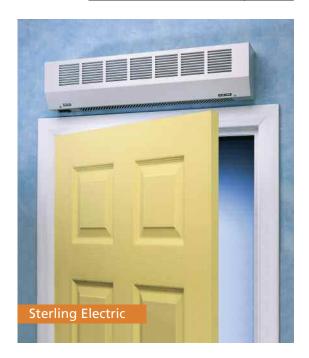
*Tests carried out by BSRIA (Building Services Research and Information Association) in August 2008

Model	Room Size Guide* (m³)	Heat Outp Normal kW (Btu/h)	ut Δt 60°C Boost kW (Btu/h)	Heat Outp Normal kW (Btu/h)	ut At 50°C Boost kW (Btu/h)	Sound Normal (dBA)	Levels Boost (dBA)	Casing Colour	Fan- Only
Hydronic									
Sterling 1000-240V	29	1.0 (3500)	1.4 (4700)	0.9 (3100)	1.1 (3800)	32	40	White	•
Hydronic Low Voltage									
Sterling 1000-12V	25	1.0 (3500)	1.4 (4700)	0.9 (3100)	1.1 (3800)	32	39	White	•
Electric									
Sterling E 2kW	29	1.0	2.0	1.0	2.0	40	40	White	•
Sterling E 2kW PC	25	1.0	2.0	1.0	2.0	40	40	White	n/a
Sterling E 4kW	-	2.0	4.0	2.0	4.0	47	47	White	•

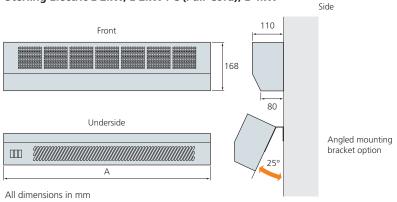
^{*}Room sizes given in cubic metres for general guidance only based on normal heat output (Δt 60°C) for domestic applications - always calculate heat losses. Δt 60°C assumes a mean water temperature of 80°C and room temperature of 20°C. Hydronic outputs tested in accordance with BS 4856. Sound levels measured at 1.5m.

	Flow & Return	Mains		Flexible	Isolating	Fused	Power Cor Normal	nsumption Boost	Water Capacity
Model	Connections	Cable	Transformer	Hoses	Valves	Spur	Watts	Watts	(Litres)
Hydronic									
Sterling 1000-240V	15mm	1.5m	n/a	n/a	n/a	3A	20	25	0.28
Hydronic Low Voltage									
Sterling 1000-12V	15mm	0.45m	•	n/a	n/a	3A	20	25	0.28
Electric									
Sterling E 2kW	n/a	2.0m	n/a	n/a	n/a	10A	1012	2025	n/a
Sterling E 2kW PC	n/a	2.0m	n/a	n/a	n/a	10A	1012	2025	n/a
Sterling E 4kW	n/a	2.0m	n/a	n/a	n/a	20A	2025	4045	n/a

Model	А
Sterling 2kW & Pull-Cord Model	432
Sterling 4kW	741



Sterling Electric E 2kW, E 2kW PC (Pull-Cord), E 4kW



Sterling Electric

Finish

Outer casing with inlet grille zinc-coated steel. Polyester powder-coated: textured white BS 4800 00A09 18% gloss.

Installation

- Maximum installation height 2.1m (6'11") to underside
- Minimum top clearance of 150mm required
- 25° angled mounting brackets supplied (optional fitting)
- Unit must be earthed

Controls

Rocker switches for fan and element 2kW and 4kW models.

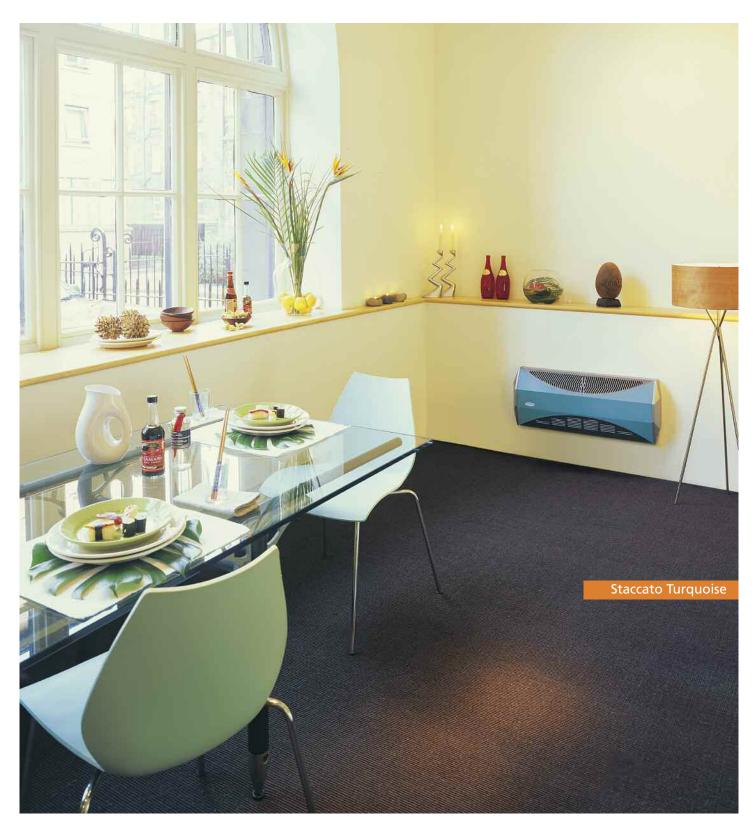
Pull-cord for fan and element 2kW PC model.

Overheat protection: thermal cut-out.

Manual reset procedure: switch power off at unit or mains, wait 5 minutes, switch power on. Room thermostats used in conjunction with 4kW models must be rated at 16A minimum.

Accessory

2kW models - wall-mounted room thermostat.



A low-level, wall-mounted fan convector, with thermostatic control, in a striking visual design to complement modern interiors. Front panel available in a range of seven colour options, with special colours available to order.

Model Hydronic	Room Size Guide* (m³)	Heat Outp Normal kW (Btu/h)	ut Δt 60°C Boost kW (Btu/h)	Heat Outp Normal kW (Btu/h)	but Δt 50°C Boost kW (Btu/h)	Sound Normal (dBA)	Levels Boost (dBA)	Colo Chassis	our options Fascia Panel	Fan- Only
Staccato 11	\$ 0	2.1 (7200)	3.2 (10900)	1.7 (5800)	2.6 (8900)	34	50	Silver	Yellow/Orange/ Red/Green/	•
									Turquoise/Blue/ Black	

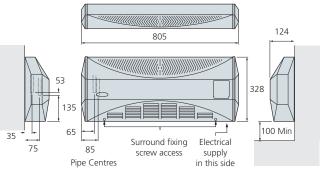
^{*}Room sizes given in cubic metres for general guidance only based on normal heat output (Δt 60°C) for domestic applications - always calculate heat losses. Δt 60°C assumes a mean water temperature of 80°C and room temperature of 20°C. Δt 50°C assumes a mean water temperature of 70°C and room temperature of 20°C. Hydronic outputs tested in accordance with BS 4856. Fan-only option operational only when central heating system is switched off. Sound levels measured at 1.5m.

Model	Flow & Return Connections	Mains Cable	Transformer	Flexible Hoses	Isolating Valves	Fused Spur	Power Con Normal Watts	nsumption Boost Watts	Water Capacity (Litres)
Hydronic									
Staccato 11	15mm	1.5m	n/a	n/a	n/a	3A	28	36	0.75



Colour	RAL Reference
Yellow	1016
Orange	2004
Red	3020
Green	6024
Turquoise	5018
Blue	5005
Black	9005

Other RAL colours available on request.



All dimensions in mm

Staccato

Finish

Front fascia panel and chassis 0.9mm zinc-coated steel. Chassis polyester powder-coated in textured silver crackle (brilliant metallic EW4 0IF) with clear lacquer.

Front fascia panels available in the colours shown.

End panels: formed plastic coated MDF.

Installation

- Mounting bracket supplied
- Unit must be earthed
- Access to casing fixing screws from the front
- Suitable for two-pipe central heating systems only
- Minimum height above floor level 100mm, maximum height above floor level 500mm

Commissioning

Check water temperature is hot enough to activate low temperature cut-out thermostat (LTC). $\label{eq:loss} % \begin{subarray}{ll} \end{subarray} % \begin{subarray}{ll} \end{subarra$

Controls

Two rocker switches – normal/off/boost, fan-heating/fan-only. Built-in room thermostat.

Low temperature cut-out thermostat set to energise fan at approx. 42°C (108°F).



A floor or wall-mounted low surface temperature fan convector specially developed for a diversity of applications in commercial installations – ideal for meeting the heating requirements of larger areas. Finished in clean and bright eggshell white – other colours available to order. Rapid response heating and the option of room temperature control makes Caspian the perfect method of heating for buildings such as schools, care homes, libraries, offices, hospitals, etc. The ability to generate heat efficiently from lower temperature heating systems maximises Caspian's renewable technology credentials.





Caspian Heat Output Data

	Heat Output			No	ise Rating (N			
Model	High kW (Btu/h)	Medium kW (Btu/h)	Low kW (Btu/h)	High (dBA)	Medium (dBA)	Low (dBA)	Casing Colour	Fan- Only
Hydronic								
Caspian 60/03	3.4 (12000)	3.2 (11000)	2.9 (10000)	40	37	34	White	n/a
Caspian 60/04	4.6 (16000)	4.1 (14000)	3.6 (12000)	38	35	32	White	n/a
Caspian 90/06	6.7 (23000)	6.2 (21000)	5.6 (19000)	43	40	37	White	n/a
Caspian 90/07	7.8 (27000)	7.0 (24000)	6.2 (21000)	42	40	37	White	n/a
Caspian 120/10	11.4 (39000)	10.4 (35000)	8.6 (29000)	44	42	37	White	n/a
Caspian 120/11	12.2 (42000)	11.4 (39000)	9.5 (32000)	46	44	39	White	n/a
Caspian 120/12	13.1 (45000)	12.2 (42000)	10.4 (35000)	48	46	42	White	n/a

^{75°}C inlet water temperature, 18°C entering air temperature. Heat outputs tested in accordance with BS 4856. Sound levels measured at 1.5m.

Correction Factors -Caspian 60, 90 and 120 Range

	Mean Water Temperature °C					
EAT °C	65	70	75			
15	0.85	0.95	1.05			
18	0.79	0.89	1.00			
21	0.74	0.84	0.95			

Model	Flow & Return Connections	Mains Cable	Transformer	Flexible Hoses	Isolating Valves	Fused Spur	Power Low Watts	er Consump Medium Watts	otion High Watts	Water Capacity (Litres)
Hydronic										
Caspian 60/03	22mm	1.5m	n/a	n/a	n/a	3A	29	36	51	0.28
Caspian 60/04	22mm	1.5m	n/a	n/a	n/a	3A	29	36	51	0.32
Caspian 90/06	22mm	1.5m	n/a	n/a	n/a	3A	53	60	98	0.52
Caspian 90/07	22mm	1.5m	n/a	n/a	n/a	3A	53	60	98	1.04
Caspian 120/10	22mm	1.5m	n/a	n/a	n/a	3A	53	99	114	0.28
Caspian 120/11	22mm	1.5m	n/a	n/a	n/a	3A	60	114	135	0.32
Caspian 120/12	22mm	1.5m	n/a	n/a	n/a	3A	99	135	151	0.52

Caspian

Finish

Casing: zinc coated steel 1.2mm. Polyester powder-coated: textured white BS 4800 00A01 18% gloss.

Installation

- Suitable to two-pipe central heating systems
- Mount on the floor with fixings to the wall
- pipe work access holes on the rear and underside
- Coin operated front access panel
- Bleed valve accessible on removal of front casing
- Tamperproof control panel
- Unit must be earthed

Commissioning

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

Controls

Rocker switch - low/medium/high.

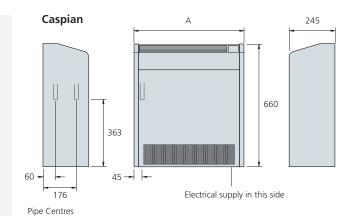
Illuminated rocker switch - on/off.

Facility to connect room thermostat.

Low temperature cut-out thermostat set to energise fan at approx. 42°C (108°F).

Accessories

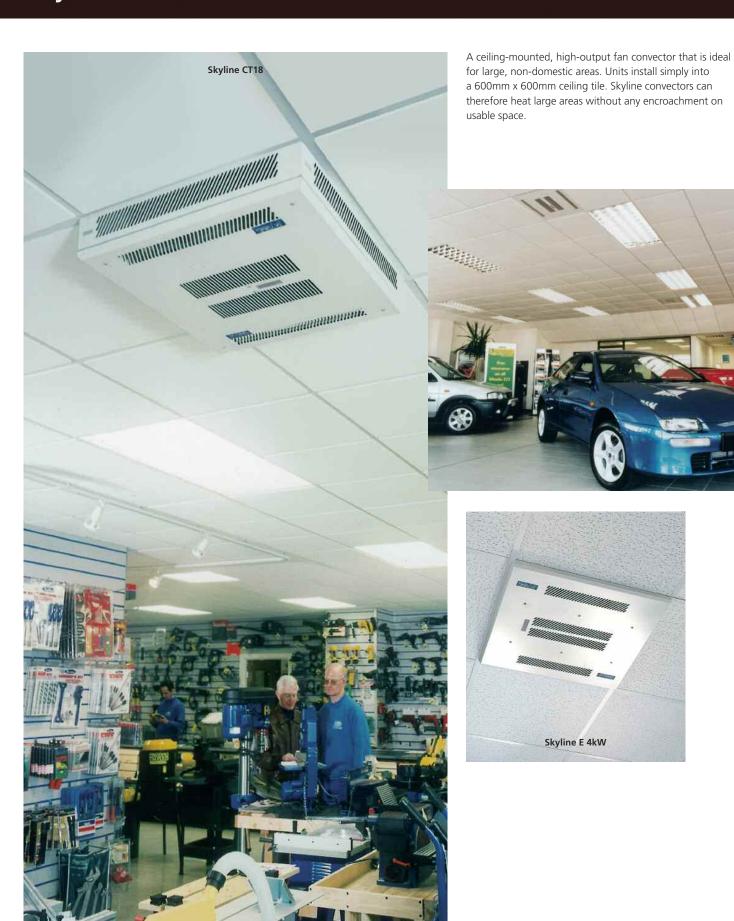
Wall mounted room thermostat.



All dimensions in mm

Model	А
60	595
90	895
120	1195

Skyline®



Model	Heat Outp Normal kW (Btu/h)	out Δt 60°C Boost kW (Btu/h)	Heat Outp Normal kW (Btu/h)	ut At 50°C Boost kW (Btu/h)	Sound Normal (dBA)	Levels Boost (dBA)	Casting Colour	Fan- Only	Flow and Return Connections
Hydronic									
Skyline CT18	3.5 (11900)	5.5 (18800)	2.8 (9600)	4.4 (15000)	44	55	White	•	22mm
Electric									
Skyline E 4kW	4.0	n/a	4.0	n/a	40	40	White	•	n/a

Δt 60°C assumes a mean water temperature of 80°C and room temperature of 20°C. Δt 50°C assumes a mean water temperature of 70°C and room temperature of 20°C. Hydronic outputs tested in accordance with BS 4856. Fan-only option operational only when central heating system is switched off. Sound levels measured at 1.5m.

Model	Main Cable	Transformer	Flexible Hoses	Isolating Valves	Fused Spur	Power Cor Normal Watts	sumption Boost Watts	Water Capacity (Litres)
Hydronic								
CT18	1.5m	n/a	n/a	n/a	3A	50	70	0.9
E 4kW	1.5m	n/a	n/a	n/a	20A	4045	n/a	n/a

Skyline CT18

Finish

Outer casing 0.7mm zinc-coated steel. Polyester powder-coated. Paint specification: textured white BS 4800 00A01 18% gloss.

Installation

- Maximum installation height 3.2m (10'6") to underside
- Installed to 180mm penetration depth in recess (excluding fittings)
- Four air inlet options: room only, void only, room and void, fresh air (spigot required)
- 600mm side clearance required
- Fixing brackets (4) supplied for connection to 6mm threaded rods or chains (rods and chains - not supplied)
- Blanking plates (2) supplied for air circulation options
- · Unit must be earthed
- Supplied with remote operating switch
- Suitable for two-pipe central heating systems only

Commissioning

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

Controls

Two rocker fan switches - normal/off/boost, fan-heating/fan-only.

Low temperature cut-out thermostat set to energise fan at approx. 42°C (108°F).

Accessories

Wall-mounted room thermostat. Fresh air inlet spigot to suit 100mm flexible hose.

Skyline E 4kW

Finish

Outer casing 0.9mm zinc-coated steel. Polyester powder-coated. Paint specification: textured white BS 4800 00A01 18% gloss.

Installation

- Maximum installation height 3.2m (10'6") to underside
- Minimum 150mm void space required for recessed installation
- Not suitable for bathrooms and other high humidity areas
- Two air inlet options: room only, room and void
- Maximum flexibility in installation: only 600mm side clearance required
- Facility for connection to 6mm threaded rod or chains (rods and chains - not supplied)
- 20 amp fused spur required
- Unit must be earthed
- Supplied with remote operating switch

Controls

Rocker switches for fan and element.

Overheat protection: thermal cut-out. Manual reset procedure: switch power off at mains, wait 5 minutes, switch power on.

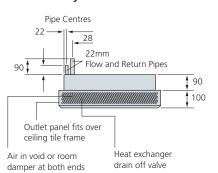
Accessories

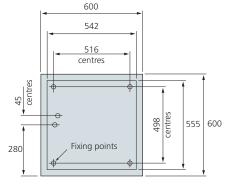
Surface mounting kit - 135mm. Provides a complete four-sided trim when fitted to a solid ceiling.

Ceiling tile spacer - 85mm. Provides semirecessed profile to match Skyline CT18 when used in ceiling tile frame.

Room thermostats used in conjunction with Skyline E 4kW must be rated at 20A minimum.

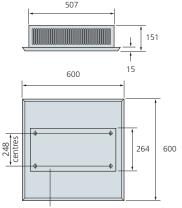
Skyline CT18





All dimensions in mm

Skyline E 4kW



Multiple positions (14) for suspension points

Retail Price Guide from 1st September 2011



General Information

Stockists

All products are available nationally from Builders' Merchants, Plumbers' Merchants, Heating Equipment Distributors and Kitchen Equipment Distributors.

In the event of difficulty, please contact us on 01245 324900 or visit our website www.smithsenv.com for details of your nearest stockist.

Special Requirements Staccato

Staccato is manufactured to order. Standard colours are normally available within 10 working days and specials within 20 working days. Delivery dates and prices will be advised at the time of order.

Sureline in white is available from stock. Other colours and finishes are normally available within 10 to 20 working days. Delivery dates and prices will be advised at the time of order.

Guarantee

All products and accessories are covered by a free five year parts and labour guarantee providing they have been installed and used in accordance with the Installation & User Guide.

Amendments

Prices are subject to alteration without prior notice and will be confirmed at the time of order.

Domestic Applications

Space Saver (Plinth Mounted)

	Model		Price (ex VAT)	Price (inc VAT)
Hydronic	SS3 (Brushed Steel Grille, n	o hoses)	£180.00	£216.00
	SS5 (Brushed Steel Grille)	0 110363/	£215.00	£258.00
	SS7 (Brushed Steel Grille)		£265.00	£318.00
	SS9 (Brushed Steel Grille)		£298.00	£357.60
Hydronic Low Voltage	339 (Brusiled Steel Gille)		1298.00	1337.00
ya.oc 2011 Tollage	SS5 12V (Brushed Steel Gri	lle)	£305.00	£366.00
Hydronic/Electric				
,	SS5 Dual (Brushed Steel Gri	ille)	£290.00	£348.00
Electric				
	SS2E W (Fixed White Grille))	£145.00	£170.38
Accessories				
	Brown Grille	To suit SS3, SS5, SS5 12V, SS7	£9.00	£10.80
		To suit SS2E W	£9.00	£10.80
		To suit SS5 Dual	£9.00	£10.80
		To suit SS9	£9.00	£10.80
	Black Grille	To suit SS3, SS5, SS5 12V, SS7	£9.00	£10.80
		To suit SS2E W	£9.00	£10.80
		To suit SS5 Dual	£9.00	£10.80
		To suit SS9	£9.00	£10.80
	White Grille	To suit SS3, SS5, SS5 12V, SS7	£9.00	£10.80
		To suit SS5 Dual	£9.00	£10.80
		To suit SS9	£9.00	£10.80
	Brushed Steel Grille	To suit SS2E W	£12.00	£14.40
	Chrome Grille	To suit SS3, SS5, SS5 12V, SS7	£60.00	£72.00
		To suit SS2E W	£60.00	£72.00
		To suit SS5 Dual	£60.00	£72.00
		To suit SS9	£60.00	£72.00
	Aluminium Grille	To suit SS3, SS5, SS5 12V, SS7	£60.00	£72.00
		To suit SS2E W	£60.00	£72.00
		To suit SS5 Dual	£60.00	£72.00
		To suit SS9	£60.00	£72.00
	Gold Grille	To suit SS3, SS5, SS5 12V, SS7	£68.00	£81.60
		To suit SS2E W	£68.00	£81.60
		To suit SS5 Dual	£68.00	£81.60
		To suit SS9	£68.00	£81.60
	Wall-Mounted Room Thern	nostat*	£34.00	£40.80
	15mm Flexible Hoses (Pr)		£44.00	£52.80

^{*}suitable for all models except Skyline E 4kW & Sterling E 4kW

Hydroflame® and Hydroflame® Simplicity Suite

	Model	Price ex VAT	Price inc VAT
S	Hydronic		
	Classic Inset (Brass Trim)	£610.00	£732.00
	Classic Inset (Chrome Trim)	£610.00	£732.00
	Classic Inset (with surround)	£917.00	£1,100.40
	Classic Freestanding (Brass Trim)	£655.00	£786.00
	Classic Freestanding (Chrome Trim)	£655.00	£786.00
	Elite Inset (Brass)	£650.00	£780.00
	Elite Inset (Chrome)	£650.00	£780.00
	Elite Inset (with surround)	£957.00	£1,148.40
ater	Elite Freestanding (Brass Trim)	£696.00	£835.20
ater	Elite Freestanding (Chrome Trim)	£696.00	£835.20
	Hydronic/Electric		
	Classic Inset Dual (Brass Trim)	£704.00	£844.80
	Classic Inset Dual (Chrome Trim)	£704.00	£844.80
1	Classic Inset Dual (with surround)	£1,011.00	£1,213.20
	Classic Freestanding Dual (Brass Trim)	£747.00	£896.40
	Classic Freestanding Dual (Chrome Trim)	£747.00	£896.40
	Elite Inset Dual (Brass Trim)	£745.00	£894.00
	Elite Inset Dual (Chrome Trim)	£745.00	£894.00
	Elite Inset Dual (with surround)	£1,052.00	£1,262.40
	Elite Freestanding Dual (Brass Trim)	£788.00	£945.60
	Elite Freestanding Dual (Chrome Trim)	£788.00	£945.60
	Surrounds in the following finishes		
	Cream (cream hearth & back plate) FPCREAM-CB-CH	£307.00	£368.40
	Yew (cream hearth & back plate) FPYEW-CB-CH	£307.00	£368.40
	Yew (black hearth & back plate) FPYEW-BB-BH	£307.00	£368.40
	Antique Oak (oak hearth and cream back plate) FPOAK-CB-OH	£307.00	£368.40
	Antique Oak (oak hearth and black hack plate) EPOAK-RR-OH	£207.00	£369 40

Product Group Fan Convectors

Eco-Powerad®

Ecovector® Low Lev

Flame-Effect Far Convectors

Perimeter Heating

Domestic Applications

Spacemaker (Recessed), Award and Sygnet (Flush/Recessed)

Model	Price ex VAT	Price inc VAT
Hydronic		
Spacemaker SST8	£315.00	£378.00
Award SFR7	£292.00	£350.40
Hydronic Low Voltage		
Award SFR7 12V	£367.00	£440.40
Electric		
Sygnet E 2kW (inc. surface mounting kit)	£186.00	£223.20

Domestic and Non-Domestic Applications

Eco-Powerad® (Low Level Wall Mounted)

	Model	Price ex VAT	Price inc VAT
Hydronic			
	Eco-Powerad 500	£165.00	£198.00
	Eco-Powerad 1000	£210.00	£252.00
	Eco-Powerad 1500	£255.00	£306.00
	Eco-Powerad 2000	£350.00	£420.00

Ecovector® LL (Low Level Wall Mounted)

Model	Price ex VAT	Price inc VAT
Hydronic		
Ecovector LL 1200	£303.00	£363.60
Ecovector LL 2000	£382.00	£458.40
Ecovector LL 2800	£456.00	£547.20

Ecovector® HL (High Level Wall Mounted)

	Model	Price ex VAT	Price inc VAT
Hydronic			
	Ecovector HL 1000	£312.00	£374.40
	Ecovector HL 2300	£380.00	£456.00
	Ecovector HL 2900	£472.00	£566.40
	Ecovector HL 4000	£786.00	£943.20
Hydronic Low Voltage			
	Ecovector HL 1000-12V	£405.00	£486.00

Ecovector® VE (Vertical Low Level Wall Mounted)

Model	Price ex VAT	Price inc VAT
Hydronic		
Ecovector VE 2500	£475.00	£570.00

Sureline® (Skirting Level)

	Model	Price ex VAT	Price inc VAT
Hydronic			
	Sureline 500	£51.00	£61.20
	Sureline 1000	£96.00	£115.20
	Sureline 1500	£141.00	£169.20
	Sureline 2000	£185.00	£222.00
Attachments	;		
	Sureline Casing 1000C	£43.00	£51.60
	LH valve box/end cap kit VALVECVR/LH	£26.00	£31.20
	RH valve box/end cap kit VALVECVR/RH	£26.00	£31.20
	Centre valve cover VALVECVR/C	£14.00	£16.80
	90° internal corner SURE90/IC	£14.00	£16.80
	90° external corner SURE90/OC	£14.00	£16.80
	135° internal corner SURE135/IC	£14.00	£16.80
	135° external corner SURE135/OC	£14.00	£16.80
	Finger Guard 500mm SUREFG500	£18.00	£21.60
	Finger Guard 1000mm SUREFG1000	£22.00	£26.40
Element			
	Sureline 1000E	£88.00	£105.60

Sterling (High Level Wall Mounted)

	Model	Price ex VAT	Price inc VAT
Hydronic			
	Sterling 1000-240V	£264.00	£316.80
	Sterling 1000-12V	£315.00	£378.00
Electric			
	Sterling E 2kW	£182.00	£218.40
	Sterling E 2kW PC (pull cord)	£189.00	£226.80
	Sterling E 4kW	£269.00	£322.80

Staccato (Low Level Wall Mounted)

	Model	Price ex VAT	Price inc VAT
Hydronic			
	Staccato 11 (standard RAL colours)	£530.00	£636.00

Non-Domestic Applications

Caspian (Low Level Wall Mounted)

Model	Price ex VAT	Price inc VAT
Hydronic		
Caspian 60/03	£720.00	£864.00
Caspian 60/04	£752.00	£902.40
Caspian 90/06	£882.00	£1,058.40
Caspian 90/07	£920.00	£1,104.00
Caspian 120/10	£994.00	£1,192.80
Caspian 120/11	£1,028.00	£1,233.60
Caspian 120/12	£1,056.00	£1,267.20

Skyline® (Ceiling Mounted)

	Model	Price ex VAT	Price inc VAT
Hydronic			
	Skyline CT18	£715.00	£858.00
Electric			
	Skyline E 4kW	£362.00	£434.40
Accessories			
	Fresh air inlet spigot (100mm dia.) FA-KIT	£45.00	£54.00
	Surface mounting kit (135mm) CTSMK	£82.00	£98.40
	Ceiling tile spacer (85mm) CTSPACE	£60.00	f72.00

Who Are We?

We at Smith's Environmental Products are the UK's leading supplier of fan convectors, flame-effect fan convectors and natural convectors.

We manufacture our product range at our specialist production facilities in the UK from raw material through to the finished article, utilising computerised design and automated production techniques.

We recognise that quality is about more than just the product. We have an approach that runs throughout the entire business and is centred on meeting and exceeding our customers' expectations.

We are thoroughly committed to recycling and waste management. All processes incorporate waste minimalisation procedures ensuring minimal waste and maximum recycling.

All our products are designed with energy efficient performance in mind, intended to work from both existing and renewable sources of energy. All the product packaging is fully recyclable, offering further testament to our commitment to the environment.

Smith's Environmental Products' quality assurance management system has been awarded ISO 9001: 2008 *Quality Management Systems* certification – an internationally recognised benchmark for quality.

With only around 8% of UK businesses achieving this prestigious award, Smith's Environmental Products is at the forefront of quality service and customer care.











Happy to Help

Smith's Environmental Products Ltd is one of the leading manufacturers of heating products in the UK.

We are committed to achieving the highest standards and our faith is supported by a free 5-year parts and labour guarantee with every product.

Our customer service is second to none and we are happy to offer any help and guidance that you might need.

Information or Advice

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As part of the policy of continuous product improvement, Smith's Environmental Products Ltd reserves the right to alter specifications without prior notice.