

Vortex Gas Fired, LPHW or Electric, Heating & Ventilation Unit





Find Your perfect Heating Solution



Available with a total of seven output ratings from 30kW up to 200kW for internal or external mounting for operation on gas, LPHW or electric.

Incorporating high efficiency, low NO_x pre-mix modulating burners, and EC plug fans as standard ensures high efficiency and minimum energy consumption is achieved.

Gas models are available for use with natural gas (G20), or LPG (G31). LPHW models can be configured to operate on boilers or heat pumps - just let us know your water flow & return temperatures. For those applications where gas is not available, an electric version of Vortex is available.

A wide range of optional equipment is available, enabling each unit to be configured to suit most applications.

Versatile

The Vortex range has been designed to offer installers a choice when replacing existing equipment, or installing as a new system.

The options for heat genration include gas (natural or LPG), LPHW (conventional boiler of heat pump) or electric. Whatever medium is selected the use of mixing dampers, filters etc still remains. Even cooling coils are an option.

Heat Exchanger

The heart of the gas fired models is a stainless steel heat exchanger, utilising a modulating pre-mix burner resulting in very low emissions and high thermal efficiencies in excess of 93.5% (ncv).

Ease of Installation

The compact size of Vortex has been specifically designed to enable it to replace a wide range of warm air heaters, in particular those connected to discharge air ducts, fresh air or both.

Construction

Vortex is contructed using 'penta post' framework with double skin insulated panels.

All units are mounted on a lightweight frame, which for the smaller units can be removed when installing the unit if needed to ensure ducts align etc.

Optional Equipment

A large number of optional accessories are available for the Vortex range including: panel air filters, inlet air dampers, damper motors, weather louvres, cooling coils etc.

Fan Efficiency

The fitted Plug fan offers optimal efficiency and maximum savings thanks to the integrated high efficiency inverter.

This enables the system to be pre-set prior to leaving the factory with the air volume & external static pressure requested. Further fine tuning can be carried out at commissioning if needed.

Benefits

- Compact nature makes Vortex ideal for replacing existing equipment
- Thermal efficiency in excess of 93.5% (ncv)
- Stainless steel heat exchanger with pre-mix burner
- Plug fan with integral inverter
- Modulating burner
- Wide airflow choice

SPECIFICATION GUIDE - Vortex Gas Fired Models									
Models		030	040	050	075	100	150	200	
Heat Output	Maximum (kW)	30	40	50	75	100	150	200	
	Minimum (kW)								
Air volume @15ºC ¹	Maximum (m ³ /h)	4,200	6,200	8,000	11,000	14,000			
	Minimum (m ³ /h)	2,100	2,500	3,900	5,300	7,000			
Max external static pressure ¹ pa		350	350	350	350	350	350	350	
Maximum gas consumption	Nat gas ² G20 (m ³ /h)								
	LPG ² G30 (kg/h)								
Gas connection BSP		3/4"	3⁄4″	3⁄4″	3/4"	3/4"			
Flue connections mm									
Max cooling ³ duty (optional)	DX (kW)								
	Chilled water (kW)								
Motor size	Maximum (kW)								
	Minimum (kW)								
Rated power A									
Maximum flue run m									
Supply voltage	v	415V 3 Phase N & E							
Weight kg									

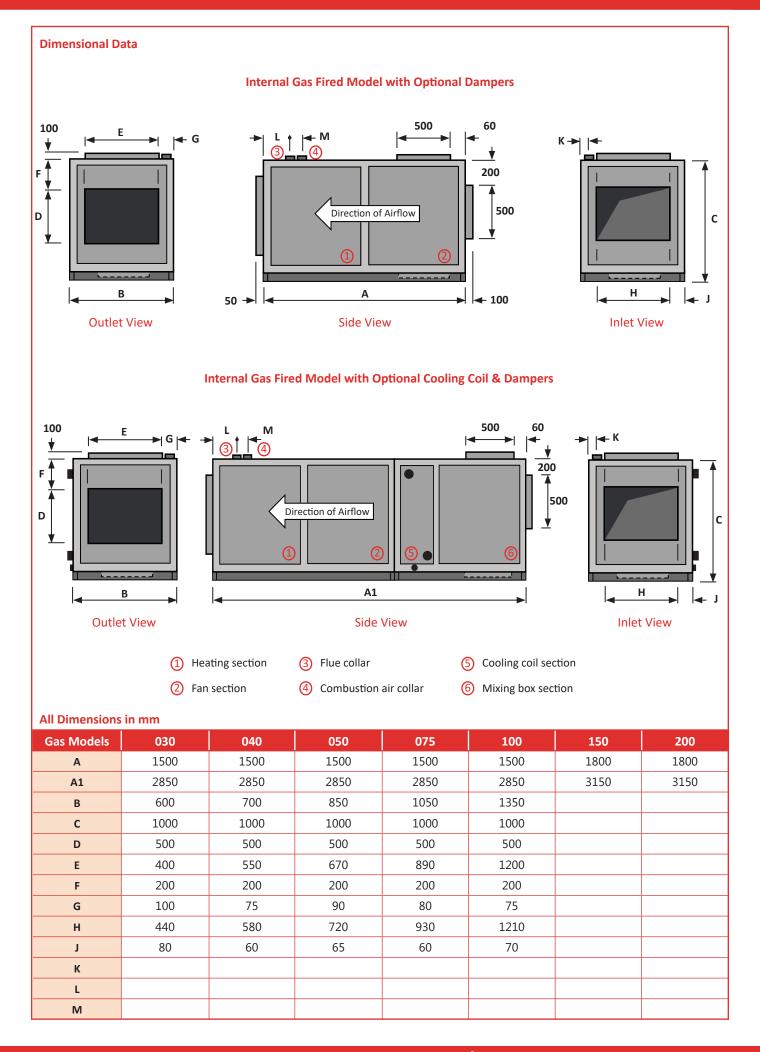
1. Unit will be configured to provide air duty quoted; 2. Natural Gas @ 38.52 Mj/m3, LPG @ 93.2 Mj/m3; 3. Cooling duty available is dependent upon air duty

SPECIFICATION GUIDE - Vortex LPHW Models									
Models		030	040	050	075	100	150	200	
Heat Output (80/60°C) ¹ (kW)									
Heat Output (35/30°C) ¹ (kW)									
Air volume @15°C²	Maximum (m ³ /h)								
	Minimum (m³/h)								
Max external static pressure ² pa									
Coil water capacity litres									
Coil water pressure drop pa									
Water connection BSP									
Motor size	Maximum (kW)								
	Minimum (kW)								
Rated power A									
Supply voltage V									
Weight (no water) kg									

1. Water flow and retun temperature; 2. Unit will be configured to provide air duty quoted.

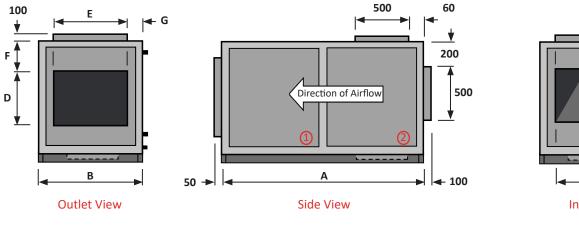
SPECIFICATION GUIDE - Vortex Electric Models									
Models		030	040	050	075	100	150	200	
Heat Output (80/60°C) ¹ (kW)									
Air volume @15°C²	Maximum (m ³ /h)								
	Minimum (m³/h)								
Max external static pressure ² pa									
Motor size	Maximum (kW)								
	Minimum (kW)								
Rated power A									
Supply voltage V									
Weight kg									

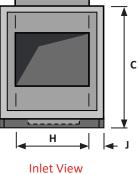
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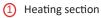
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Dimensional Data Internal LPHW Model with Optional Dampers Ε |**←** G ¥ ¥ F Direction of Airflow D н В Α 🗕 J **-** 100 50 -**Inlet View Outlet View** Side View **Internal Electric Model with Optional Dampers**





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All Dimensions in mm **Gas Models** Α A1 В С D Ε F G Н J

External Gas Fired Model with Optional Dampers

External Gas Fired Model with Optional Cooling Coil & Dampers

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External LPHW Model with Optional Dampers

External Electric Model with Optional Dampers

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UK

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