

VPx

Power Vented Gas Cabinet Heater
Natural Gas & LPG Fired Options

Overview

The new look ErP compliant power vented VPx cabinet heater range has been re-developed with a more compact, robust and proven design with high/low burners as standard.

With the range now increased to six, with a new maximum output of 140kW, VPx heaters can be configured for either room sealed or flue only operation. Vertical and horizontal fluing options add benefit and savings for installers.

The VPx is designed to offer ErP complaint NOx emissions and seasonal efficiencies providing cost effective solutions for a wide variety of industrial and commercial buildings.

Models Available

- VPx UF - Upright Free Blowing Unit
- VPx UD - Upright Ducted Unit

Product Features

- Widest range of sizes, twelve capacities from 35 to 140kW
- Standard axial fan heater throws from 12 to 32m.
- Compact size providing greater flexibility in choice of applications and locations.
- Low NOx and high energy output with highest efficiency without condensing, simple and efficient high - low burner control.
- Designed for strength, rigidity and long service life with minimal noise levels.
- 409 and 316 stainless steel heat exchanger upgrades available for harsh environments.
- Factory fitted controls for ease of use and performance
- Specified with horizontal low level flue discharge discharge. A vertical flue option can also be specified.

Specification

- VPx heat exchanger will be manufactured as standard from aluminised steel tube with swaged and expanded connections into combustion gas collection box, no welding is used to minimise stress on components.
- The four pass tubular heat exchanger can be specified with upgrade to 409 and 316 stainless steel.
- Individual in shot burners per heat exchanger tube to be fitted with Resistohm Helical Low NoX inserts capable of maximum continual 1300°c operation.
- Heaters will be capable of use with G20 Natural Gas or G31 LPG with injector change.
- VPx will be supplied with a high-low burner gas valve assembly as standard, modulation can be specified as an option.
- To achieve design airflow and external static pressure the supply fan airflow will remain constant through the high-low fire operation.
- The casing will be designed for rigidity and low noise, anti vibration mounts will be used for the main supply fan assemblies.
- The fan module is designed to support the heat exchanger section for a compact low height design.
- Options available for the fan module include duct spigots, inlet filter and either manual or driven dampers.
- Units will be complete with easy access swing out burner wiring panels and Powrmatic MC200 controller is factory fitted and includes all wiring
- NoX Levels will be less than 96mg/kWhr and useful efficiency will be more than 90%.
- Heater casing will be protected by epoxy powder coat stove baked paint RAL 7015.



Technical Performance

VPx

Model			35	50	70	90	120	140	
Output (nominal)	High Fire (max)	kW	34.0	50.5	70.0	90.0	118.5	137.0	
	Low Fire (min)	kW	23.8	33.9	46.7	65.3	83.5	93.3	
Input (nett CV)	High Fire (max)	kW	36.5	54.5	74.0	97.5	127.0	146.0	
	Low Fire (min)	kW	26.08	37.41	51.67	71.65	90.83	101.16	
NOx Seasonal (Gross)		mg/kWh	<96.0	<96.0	<96.0	<96.0	<96.0	<96.0	
Seasonal Space Heating Energy Efficiency		% $\eta_{s,h}$	74%	72.8%	72.1%	72.1%	73.7%	73.7%	
Air Flow Volume		m ³ /s	1.11	1.51	1.94	2.81	3.56	3.75	
Airflow	Heads		No.	3			4		
	Throw		m	12	22	25	27	30	32
	Fan Static	Standard	Pa	200	250	250	180	290	250
		Up-rated	Pa	400	400	400	400	400	400
Electrics	Supply	Standard	V/ph/Hz	230/1/50					
		Optional*	V/ph/Hz	N/A		400/3/50			
	Start Current		amp	15.6	26.3	38(18)	34(14)	34(14)	46(29)
	Run Current		amp	4.7	7.6	11(5.3)	9.8(4.18)	9.8(4.18)	13.1(8.43)
Fuel	Connection		BSP/Rc	3/4"					
	Nominal Inlet Pressure	Nat Gas	mbar	20.0					
		LPG	mbar	37.0					
	Consumption	Nat Gas	m ³ /h	3.86	5.77	7.83	10.32	13.44	15.45
LPG		m ³ /h	1.52	2.20	3.16	4.01	5.10	5.90	
Overall Dimensions	VPx UF	Height	mm	2184	2286	2381	2607	2607	2722
		Width	mm	819	819	819	819	819	819
		Depth	mm	1325	1325	1325	1950	1950	1950
Installation Clearance	VPx UF	Front	mm	1000					
		Side	mm	150 (wall facing side)					
		Side	mm	500					
		Rear	mm	500					
		Above	mm	1000					
Flue	Diameter		mm \emptyset	100	100	130	130	130	130
	Maximum Length	Flue Only	m	12					
		Room Sealed	m	6					
Combustion Air Spigot		mm \emptyset	100			130			
Noise Levels	VPx UF	dB(A)	60	62	63	68	69	70	
Nett Weight	VPx UF	kg	180	209	287	426	468	542	
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* **Important Note:** For full technical specification notes please refer to the product installation manual on our website at www.powrmatic.co.uk

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