

## VX

### Power Vented Gas Cabinet Heater Natural Gas & LPG Fired Options

#### Overview

The ErP 2021 compliant floor standing VX range of cabinet heaters from Powrmatic benefits from the same design as the popular VX range in its entire construction, performance, and aesthetics, finished with the popular epoxy powder RAL 7015 stove baked paint.

With six models in the range between 35kW and 140kW. VX heaters can be configured for either room sealed or flue only operation. Vertical and horizontal fluing options add benefit and savings for installers.

The VX 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

- VX UF - Upright Free Blowing Unit
- VX 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

- VX 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.
- VX 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

VX

Model			35	50	70	90	120	140	
Output (nominal)	Nat Gas	High Fire (max)	kW	33.5	51.5	69.8	95.4	118.0	140.0
		Low Fire (min)	kW	16.1	26.4	34.0	36.6	48.2	72.2
	LPG	High Fire (max)	kW	34.1	48.3	67.8	87.7	118.6	130.4
		Low Fire (min)	kW	16.6	24.2	35.0	45.2	61.1	69.1
Input (nett CV)	Nat Gas	High Fire (max)	kW	35.8	55.9	75.3	103.2	127.0	150.0
		Low Fire (min)	kW	16.8	27.4	35.1	38.2	50.0	76.5
	LPG	High Fire (max)	kW	36.6	52.6	72.3	94.4	127.2	139.4
		Low Fire (min)	kW	17.6	25.7	36.5	47.0	63.3	72.1
NOx Seasonal (Gross)			mg/kWh	66.8	48.3	53.9	66.0	66.8	61.2
Seasonal Space Heating Energy Eff.			% $\eta_{s,h}$	80.5	79.2	80.5	82.0	79.6	80.0
Air Flow Volume			m <sup>3</sup> /s	1.11	1.51	1.94	2.81	3.56	3.75
Airflow	Heads			3			4		
	Throw		m	12	22	25	27	30	32
	Fan Static	Standard	Pa	250	250	250	180	290	250
		Uprated	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)		
	Run Current 1Ph(3Ph*)		amp	4.7	7.6	10.0(5.3)	6.0	8.0(4.6)	12.0(7.0)
	Start Current 1Ph(3Ph*)		amp	15.6	26.0	38.0(18.0)	21.0	27.0(15.0)	42.0(25.0)
Fuel	Connection		BSP/Rc	$\frac{3}{4}$ "			1"		
	Nominal Inlet Pressure	Nat Gas	mbar	20.0					
		LPG	mbar	37.0					
	Consumption	Nat Gas	m <sup>3</sup> /h	3.79	5.67	7.96	10.04	13.44	15.61
LPG		m <sup>3</sup> /h	1.50	2.15	2.96	3.86	5.20	5.70	
Overall Dims	VX 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
Install Clearance	VX UF	Front	mm	1000					
		Blank Side	mm	150 (wall facing side)					
		Louvred 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	VX UF	dB(A)	60	62	63	68	69	70	
Nett Weight	VX UF	kg	180	209	287	426	468	542	
<b>Model</b>				<b>35</b>	<b>50</b>	<b>70</b>	<b>90</b>	<b>120</b>	<b>140</b>

\* **Important Note:** For full technical specification notes please refer to the product installation manual on our website at [www.powrmatic.co.uk](http://www.powrmatic.co.uk)

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