

LNVx

Suspended Warm Air Unit Heater
Natural Gas & LPG Fired Options



Overview

The Powrmatic LNVx is a ErP compliant warm air suspended natural gas/LPG heater supplied with a high-low burners as standard. The LNVx is a compact and efficient heater which provides climate control for many industrial and commercial application.

Models Available

- LNVx F - Axial Fan Crossflow Units
- LNVx CCF - Centrifugal Close Coupled Fan Units
- LNVx V - Axial Fan Downflow Units
- LNVx D - Ducted No Fan Unit
- LNVx Duo - Axial Fan Bi-Directional Units

Product Features

- Widest range of sizes, twelve capacities from 15 to 140kW
- Standard axial fan heater throws up to 45m.
- Compact space saving dimensions, designed to be room sealed or power flued with vertical or horizontal options
- Most comprehensive model range including Axial Fan, Centrifugal Fan (with or without fan plenum), Axial fan downflow, Bi-Directional and Duct Package.
- 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.

Specification

- LNVx heat exchanger will be manufactured as standard from aluminised steel tube with swaged and expanded connections into a 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.
- LNVx will be supplied with a high-low burner gas valve assembly as standard, modulation can be specified as an option.
- To achieve designed coverage and throw 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 utilized to secure the main fan assemblies.
- There will be six top suspension points for ease of installation and additional security.
- Units will be complete with easy access swing out burner wiring panels.
- 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.
- Controlled by Powrmatic MC200 Optimised Start Control.

Technical Performance

LNVx

Model			15	20	25	30	35	40	45	50	60	70	90	120	140	
Output (nominal)	High Fire (max)	kW	14.5	19.0	24.0	30.0	34.0	37.5	44.0	50.5	60.0	70.5	90.0	118.5	137.0	
	Low Fire (min)	kW	8.6	12.7	16.3	19.8	23.8	25.5	29.8	33.9	40.8	47.8	65.3	83.5	93.3	
Input (nett CV)	High Fire (max)	kW	15.5	20.5	26.0	32.5	36.5	40.5	47.0	54.5	66.0	76.5	97.5	127.0	146.0	
	Low Fire (min)	kW	9.53	14.07	18.16	22.4	26.08	28.17	32.46	37.41	45.07	52.91	71.65	90.83	101.16	
NOx Seasonal (Gross)		mg/kWh	<96.0	<96.0	<96.0	<96.0	<96.0	<96.0	<96.0	<96.0	<96.0	<96.0	<96.0	<96.0	<96.0	
Seasonal Space Heating Energy Efficiency		% hs,h	72.4%	72.1%	72.1%	72.3%	74%	72.8%	74.4%	72.8%	74.4%	72.1%	72.1%	73.7%	73.7%	
Airflow Volume	LNVx F/CCF/V	m³/s	0.42	0.56	0.78	0.97	1.11	1.18	1.51	1.51	1.83	1.94	2.81	3.56	3.75	
	LNVx D	Min	m³/s	0.42	0.56	0.78	0.97	1.11	1.18	1.51	1.51	1.83	1.94	2.81	3.56	3.75
		Max	m³/s	0.46	0.62	0.86	1.20	1.22	1.30	1.67	1.67	2.02	2.14	3.09	3.91	4.13
Airflow	Throw	LNVx F	m	10.0	14.0	20.0	23.0	28.0	30.0	35.0	35.0	38.0	42.0	44.0	45.0	
	Fan Static	LNVx CCF	Pa	220	320	220	220	200	150	250	250	250	250	180	290	250
Electrics	Supply	Standard	V/ph/Hz	230/1/50												
		Optional*	V/ph/Hz	400/3/50 *on Centrifugal Units Only. 3Ph units shown in brackets ()												
	LNVx F	Run	amp	0.40	0.45	0.52	0.65	1.14	0.85	1.53	1.57	2.30	2.20	3.06	4.35	4.45
	LNVx CCF	Start	amp	5.0	8.5	13.3	13.3	15.6	18.0	26.3	26.3	29(16.5)	38(18)	31.0	40(14.9)	44(16.8)
Run		amp	2.0	3.1	4.2	4.3	4.7	5.8	7.6	7.6	10(4.8)	11(5.3)	12.8	17(4.6)	20(4.9)	
Fuel	Connection		BSP/Rc	¾"											1"	
	Nominal Inlet Pressure	Nat Gas	mbar	20.0												
		LPG	mbar	37.0												
	Consumption	Nat Gas	m³/h	1.64	2.17	2.75	3.44	3.86	4.29	4.97	5.77	6.98	8.10	10.32	13.44	15.45
LPG		m³/h	0.63	0.83	1.06	1.06	1.52	1.66	1.90	2.20	2.65	3.16	4.01	5.10	5.90	
Mounting Height	LNVx F/Duo Crossflow	Min	m	2.5						3.0						
		Max	m	3.0				3.5		5.0						
	LNVx V Downflow	Min	m	2.5	4.0				5.0				6.0			
		Max	m	3.0	6.0			7.0		8.0			10.0	12.0		
Overall Dims	LNVx F	Height	mm	430	500	570	670	532	720	684	684	760	912	810	975	1140
		Width	mm	997	997	997	997	1325	997	1325	1325	1325	1325	1950	1950	1950
		Depth	mm	800	869	819	834	918	839	938	938	915	915	938	915	915
Install Clearance	LNVx F	Top	mm	200												
		LH Side	mm	200												
		RH Side	mm	1000												
		Rear	mm	400												
Flue	Diameter		mm Ø	80	80	80	100	100	100	100	100	130	130	130	130	130
	Max Length	Flue Only	m	12												
		Room Sealed	m	6												
Combustion Air Spigot		mm Ø	80	80	80	100	100	100	100	100	100	130	130	130	130	130
Noise Levels	LNVx F	dB(A)	48	47	47	50	50	58	59	59	60	60	63	64	64	
	LNVx CCF	dB(A)	55	55	54	54	N/A	60	60	61	62	62	66	67	67	
Nett Weight	LNVx F	kg	59.5	73.0	76.5	81	84.0	103	122	122	135	149	202	238	286	
	LNVx CCF	kg	71.0	83.6	86.4	94	N/A	122	143	143	170	213	329	364	430	
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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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