

CXG

Warm Air Cabinet Heater
Natural Gas / LPG Fired Options



Overview

Powrmatic's ErP 2021-compliant CXG range of cabinet-type heaters combines installation versatility with a range of kW outputs to match the most stringent applications. The new CXG features the new modulating ultra-low NOx INVERTERJET® from BURNERTECH making it the perfect choice for businesses and industries looking to reduce their carbon footprint.

The range can be installed in the heated space, be sited in plant rooms and specified for either vertical or horizontal installation. The CXG EA range can also be specified for external applications.

The CXG heaters are equipped with fully adjustable air distribution nozzle heads to give the ability to direct warmed air within the heated space. Duct outlet CXG can be specified with different external static pressures to give maximum versatility for air handling type installations.

Models Available

- CXG UF - Upright Freeblowing
- CXG UD - Upright Ducted
- CXG-EA - External

Product Features

- CXG versatility is enhanced with the availability of horizontal types for applications where space and air direction is specific.
- Thirteen outputs ranging from 30kW through to 590kW in both vertical and horizontal arrangement. internal and external design and free blowing or ducted supply air, most customers requirements are covered.
- Low NOx and high energy output with highest efficiency without condensing, simple and efficient high - low burner control.
- Utilises the market leading burner manufacturer Burnertech now utilise a pre-fitted and tested low NOx, fully enclosed modulating "Inverterjet" burner as standard.

Specification

- CXG Drum and tube, four pass heat exchanger will be constructed as standard with a stainless steel drum combustion chamber and an aluminised or stainless steel tubular heat exchanger.
- Standard models up to CXG250 will be supplied with a T430 stainless steel drum and T304 rear drum and includes aluminised steel tubes and smoke box.
- Standard models CX300 and above will be supplied with a T304 stainless steel drum and T304 rear drum and includes aluminised steel tubes and T304 stainless steel smoke box.
- CXG EA Drum and tube will be manufactured from stainless steel T304, this option can be specified on all units.
- Ultra-low NOx INVERTERJET® from BURNERTECH making it the perfect choice for businesses and industries looking to reduce their carbon footprint.
- Heaters will be supplied to run on either Natural Gas (G20) or LPG (G31)
- Free blowing heaters will be supplied with between two and eight louvred discharge heads according to heat output.
- Ducted models are available with fan static pressure duties between 188 and 600Pa according to model and options fitted.
- Models up to 90kW will be supplied as standard 1ph, 3ph optional, all other capacities will be supplied 3ph as standard, 1ph optional on standard models 120 and 150 only.
- Soft start fan and motor control will be standard on all models 250 and above.
- Options will include Inverter drive, 409 stainless steel heat exchanger and Painted RAL colour of choice.
- Accessories of choice for internal heaters, side or rear inlet spigots, screened air intake, inlet filter and air dampers.
- Available accessories for EA external heaters, weatherproof inlet filter, weatherproof inlet dampers with damper motors.
- CXG control is by MC200 as standard, this will be either heater chassis mounted or remote according to model.

Technical Performance

Model			30	45	60	90	120	150	175	200	250	300			
Output	High Fire (max)	kW	29.9	46.3	59.6	90.2	120.1	149.8	174.5	199.6	252.7	300.6			
	Low Fire (min)	kW	29.9	46.3	59.6	90.2	120.1	149.8	174.5	199.6	252.7	300.6			
Input (nett CV)	High Fire (max)	kW	32.45	50.76	64.55	100.20	129.30	163.43	196.85	214.45	269.58	323.21			
	Low Fire (min)	kW	18.34	15.76	20.36	30.44	38.79	57.50	58.85	64.19	81.61	98.01			
NOx Seasonal (Gross)		mg/kWh	52.2	39.3	38.1	38.5	38.2	64.0	34.3	38.9	29.1	32.6			
Seasonal Space Heating Energy Eff		% η _{sp,h}	76.4%	78.3%	79.2%	79.8%	80.1%	79.3%	80.0%	80.3%	80.1%	79.8%			
Airflow	Volume		m ³ /s	0.6	0.9	1.0	1.7	1.9	2.7	3.2	3.5	4.0	5.0		
	Heads	UF / HF	No.	2	2	3	3	4	4	4	4	4	4		
		Size	mm	203	254	254	254	305	305/358	358	358	457	457		
	Throw	UF / HF	m	15	21	19	24	24	29	29	29	41	48		
	Fan Static	Standard	Pa	350	260	180	320	280	220	240	240	305	205		
Up-rated LHP		Pa	n/a		340	400	510	580	400	400	385	425			
Electrics	Standard Fan	Motor	kW	0.55	0.55	0.55	2.0	1.4	2.2	4.0	4.0	3.0	5.5		
		Supply	Wph/Hz	230/1/50						400/3/50					
		Run	amp	4.0	5.0	4.0	7.5	10.0	11.5	5.0	7.5	3.0	9.5		
		Start	amp	12	15	15	30	30	30	20	20	20	22		
	Optional Std Fan	Motor	kW	n/a				1.7	3.0	n/a					
		Supply	Wph/Hz	n/a				400/3/50		n/a					
		Run	amp	n/a				4.9	4.2	n/a					
		Start	amp	n/a				15	15	n/a					
	Up-rated Fan (LHP)	Motor	kW	n/a		2.0	2.2	3.0	3.0	4.0	5.5	5.5	7.5		
		Supply	Wph/Hz	n/a		230/1/50			400/3/50						
		Run	amp	n/a		8.0	10.0	15.0	5.0	7.0	7.0	8.0	13.5		
		Start	amp	n/a		30	35	50	24	24	24	30	42		
	Optional LHP Fan	Supply	Wph/Hz	n/a		400/3/50			n/a						
		Run	amp	n/a		3.0	3.2	5.8	n/a						
		Start	amp	n/a		12	15	20	n/a						
Fuel	Connection		BSP/Rc	1/2"	1/2"	1/2"	1/2"	3/4"	1"	1"	1"	1"	1"		
	NG Consumption (nominal)		m ³ /h	3.4	5.4	6.8	10.6	13.7	17.3	19.8	22.7	28.5	34.2		
	LPG Consumption (nominal)		kg/h	2.5	3.9	5.0	7.8	10.0	12.7	14.5	16.7	20.9	25.1		
Overall Dimensions	UF Upright Freeblowing	max Height (incl. heads)	mm	2005	2005	2476	2567	2821	2821	3053	3140	3272	3272		
		Width	mm	669	669	744	744	904	904	904	904	1104	1104		
		Depth (no burner)	mm	732	732	927	927	1200	1200	1399	1399	1599	1599		
		Depth (with burner)	mm	1083	1083	1278	1278	1640	1640	1839	1839	2039	2039		
Installation Clearances	UF Upright Freeblowing	Front	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
		Side	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
		Blank Side	mm	150	150	150	150	150	150	150	150	150	150		
		Rear	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
Flue Diameter		mm ø	130	130	150	150	150	180	180	180	200	200			
Combustion Air Spigot		mm ø	130	130	130	130	130	150	150	150	150	150			
Noise Level (see Note Below)		dB(A)	55	60	60	62	69	61	72	73	74	76			
Nett Weight (see Note Below)		kg	168	173	231	241	341	386	530	530	556	556			
rs Model			30	45	60	90	120	150	175	200	250	300			

* 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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