

PZN/PZN-X

Hot Water Heat Emitter
Industrial and Commercial Hot
Water Heating



Overview

The Powrmatic PZN LTHW low temperature hot water heat emitter is a water-supplied suspended air heater which can discharge air horizontally or vertically.

The unit has a powerful axial fan which means it is suitable for many applications. Powrmatic offers a range of accessories allowing it to satisfy a variety of applications.

For example, the unit can be made suitable for external air connection in combination with filtering and a mixing box for the dilution of fresh external air. The PZN is also compatible with various heat sources including easy connection to new and existing biomass boiler systems.

Models Available

- PZN - Pre Painted Panels
- PZN- X - Stainless Steel Casing (Special Order)

Product Features

- Constructed of a self supporting galvanized, pre-painted metal or stainless steel (PZN-X). The casing features a modern and attractive aesthetic line. The geometry adopted gives the heater maximum compactness and versatility.
- Constructed of a high efficiency copper tube battery with an aluminum finned exchange coil. Steel water couplings with air vent valves and both fixed on anti-break clamp brackets.
- ErP compliant low noise, high performance axial fans mounted in a safety protection cage. Featuring a two or three speed motor (model dependent).
- The Powrmatic PZN has a range of controls which allow the end user to set a range of fan speeds for single phase and 3-phase units.

Specification

- Warm air is discharged through a series of adjustable louvres so as to optimise both throw and distribution.
- The PZN is compatible with various heat sources including easy connection to new and existing Biomass boiler systems (not suitable for ground source heat pumps).
- Full range of accessories available, Vertical Louvres, Wall and Ceiling mounting kits plus Room Thermostats and Speed Controllers.

Technical Performance

PZN/PZN-X

Model		13	23	33	43	53	63	73	
Thermal Power ¹	kW	14.76	20.34	24.32	31.14	36.50	44.70	53.57	
	kcal/h	12691	17489	20911	26776	31384	38435	46062	
Rows	no.	3	3	3	3	3	3	3	
Axial Fan	Qty	no.							
	dia	mm	300	315	330	350	400	420	550
	speed	rpm	1400 - 900 - 700 ³					900 - 700 ³	
Airflow Rate	m ³ /h	1550	2300	2550	3400	3900	4900	6200	
Air Delivery	m	17	19	25	25	24	26	37	
Air Supply Temperature ¹	°C	42.8	40.8	42.9	41.8	42.3	41.6	40.2	
deltaP Water Side	kPa	9	9	8.	9	6	8	5	
Water Flow Rate	l/h	648	894	1068	1368	1603	1964	2353	
Water Capacity	l	1.6	2.1	2.5	3.0	3.6	4.6	5.2	
Electrical Supply	V/ph/Hz	230V/1Pha/50Hz						400V/3Pha/50Hz	
Degree of Protection	IP	55	55	54	54	55	55	55	
Total Electrical Supply	W	74	86	120	130	200	220	305	
Max Electrical Current	A	0.34	0.38	0.55	0.60	0.90	0.95	0.70	
Sound Power Level ²	Max	dB	50	51	52	53	53	52	
	Med	dB	47	47	50	49	49	-	
	Min	dB	41	45	43	43	43	46	

Notes

(1) Data refers to following conditions:
 - Water temperature 80-60°C
 - Air temperature 15°C
 - R.H. 50%
 - Atmospheric pressure 1013 mbar
 - Max fan speed

(2) Data refers to following conditions:
 - Area unobstructed
 - Max fan speed

Unit installed on wall 3 m above ground with sound pressure measured frontally.
 (3) RPM variations attained via use of special accessories (available as optionals). RPM figures are average values as RPM varies from model to model.

* **Important Note:** For full technical specification notes please refer to the product installation manual on our website at www.powrmatic.co.uk

Contact Us

Powrmatic Limited
 Hort Bridge, Ilminster
 Somerset
 TA19 9PS
 tel: **+44 (0) 1460 53535**
 fax: **+44 (0) 1460 52341**
 e-mail: **info@powrmatic.co.uk**



#keepingthenationwarm

Powrmatic Ireland
 45 Broomhill Close
 Tallaght
 Dublin 24
 tel: **+353 (0) 1452 1533**
 fax: **+353 (0) 1452 1764**
 e-mail: **info@powrmatic.ie**