CI/SfB 56.83 x x



POWER VENTED GAS FIRED BALANCED FLUE CABINET HEATERS









PV Series

GAS FIRED BALANCED FLUE CABINET HEATERS

Introduction

The AmbiRad PV range of vertical gas fired cabinet heaters are suitable for a wide variety of commercial and industrial applications.

Suitable for free blowing applications PVN models are supplied complete with adjustable discharge nozzles. For ducted air installations PVD units are supplied complete with a duct outlet spigot.

Units are fully CE certified and manufactured in accordance with ISO 9001 accreditation.

Model Range

The PV cabinets are available in six heat outputs from 29kW to 144kW. Standard units are suitable for natural gas (G20) and units may also be specified as an option to operate on Propane (G31).

ECA



This symbol verifies that the PV Series currently qualify for the ECA scheme, an up-front tax relief enabling businesses that invest in energy-saving equipment to claim 100% first-year capital allowances against their taxable profits.

Optional Equipment

A range of options are available. These include:

- · Stainless steel heat exchangers
- · High/low burner
- 0 10V modulation burner
- Inlet filters
- · Duct inlet spigots
- Uprated fan motor for up to 250Pa on units 95 to 145

Applications

- Factories
- Greenhouses
- Warehouses
- Workshops
- Showrooms



Specification

Heat Exchanger and Burner

Four pass aluminised steel cross flow heat exchanger. The tubes are expanded into the box thereby eliminating the possibility of weld failure and to ensure enhanced life expectancy. Stainless steel heat exchanger tubes are available as an option.

Units are fitted with low noise burner complete with electronic ignition, safety flame monitoring and overheat protection.

The heat exchanger and burner combination provides high thermal efficiencies in excess of 91% (net CV).

Air Distribution

Double inlet centrifugal fans circulate large air volumes evenly across the heat exchanger to give low surface temperatures and optimised heat transfer.

Free blowing units are supplied complete with aerodynamic discharge nozzles for extended throws. Nozzles are complete with horizontal louvres and may be rotated through 360° to ensure good air distribution.

Electric Motors

All electric motors comply with EC motor directive 2005/32/EC

Cabinets

Manufactured from electro zinc coated steel the cabinet is finished in a stove hardened epoxy powder paint finish to provide a robust and durable case. For safety and aesthetics all controls are fully enclosed behind a full width hinged access door fitted to the front of the heater.

Controls

Units are supplied complete with SmartCom, an integral fully optimised electronic time and temperature control system with password protection facility.

If required an optional remote panel or a remote temperature sensor can be supplied loose for on site wiring by the installation contractor.

Installation

Units should be installed on a flat noncombustible base capable of supporting the unit weight and ensuring that the recommended clearances for correct airflows and service access are observed.

Consideration must also be given to the route and length of the flue, and if required the ducted combustion air inlet.

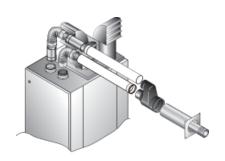
Versatile Flue Installation

Heaters are fitted with an integral flue fan and are CE certified to be used as either balanced flue room sealed or fan assisted appliances.

The balanced flue terminals provide both the flue outlet and combustion air inlet.

Where heaters are installed without connection to combustion air pipe work, adequate provision must be made for combustion air ventilation.

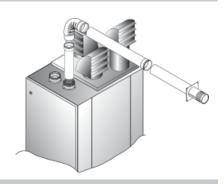
The integral flue fan permits both roof and wall terminations and allows the heater to be sited several metres away from the flue exit.



Balanced flue wall outlet (type C12) eliminates expensive roof opening and flashing



Balanced flue roof outlet (type C32)



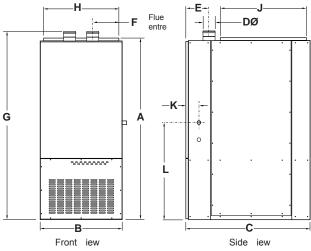
Fan assisted flue through wall (type B22) without combustion air pipe eliminates expensive roof opening and flashing

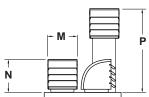


Fan assisted flue through roof (type B22) without combustion air pipe

TECHNICAL DATA									
Model		PV30	PV50	PV72	PV95	PV120	PV145		
Nominal heat output	kW	29	49	72	96	120	144		
Airflow	m ³ /h	2880	3780	5400	8280	10980	13176		
Temperature rise	K	30	38	39	34	32	32		
Throw ¹ (PVN)	m	18	19	19	26	29	26		
Static pressure (PVD Standard)	Pa	80	110	100	130	150	150		
Gas Consumption Natural gas G20 Propane G31 Gas connection ² Minimum Gas Inlet Pressure Natural gas G20 Propane G31	m ³ /h	3.38	5.63	8.33	11.12	13.87	16.63		
	m ³ /h	1.30	2.16	3.21	4.28	5.34	6.41		
	Rc	½"	½"	³ ⁄ ₄ "					
	mbar	17.5	17.5	17.5	17.5	17.5	17.5		
	mbar	37.0	37.0	37.0	37.0	37.0	37.0		
Electrics Supply Optional FLC (std motor) FLC (optional motor)	V/ph hz	230/1/50	230/1/50	230/1/50	415/3/50	415/3/50	415/3/50		
	V/ph/hz	n/a	n/a	n/a	230/1/50	230/1/50	n/a		
	amp	5.1	5.1	5.0	3.6	3.6	6.5		
	amp	n/a	n/a	n/a	8.0	10.0	n/a		
Flue diameter	mmø	100	100	130	130	130	130		
Combustion air diameter	mmø	100	100	130	130	130	130		
Maximum horizontal run ⁴	m	6.0	6.0	8.0	8.0	8.0	8.0		
Maximum vertical run ⁴	m	10.0	10.0	10.0	10.0	10.0	10.0		
Nozzles (PVN)	no.	2	2	3	3	3	4		
Noise level ³	dB(A)	59	60	68	70	70	72		
Net weight (PVN)	kg	192	202	330	380	440	460		

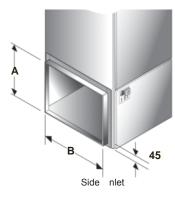
- 1 Throw is dependent on building height, room temperature and nozzle settings.
- 2 Gas lines must be adequately sized and reduced at appliance as required 3 Noise levels measured at 5 metres from appliance
- 4 Reduce distance by 1.0m for every 90°degree elbow & 0.8m for 45°degree elbow

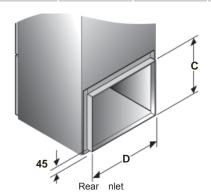


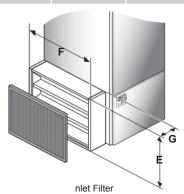


Units with more than 2 nozzles are supplied as standard with height extensions for rear nozzles. Standard nozzles may be specified for height sensitive applications or installations where cabinets are located centrally within the space.

RETURN AIR DIMENSIONS										
Model		PV30	PV50	PV72	PV95	PV120	PV145			
Side inlet spigot	A B	348 522	348 522	560 850	560 850	560 1030	560 1030			
Rear inlet spigot	D	468 650	468 650	560 677	560 677	560 677	560 677			
nlet fter assembly	E F G	420 660 300	420 660 300	645 990 300	645 990 300	720 1245 450	720 1245 450			







Filter assemblies can be side mounted only. Filter assemblies must be specified for either left hand or right hand side.

The AmbiRad Group





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