

VPC Gas Cabinet Heater Range

Architects of your environment

HEATING • VENTILATION • AIR CONDITIONING



powrmatic

Product Overview

Benefits

Installer Friendly

- Low Level Flue Discharge Option (No Roof Work)
- Room Sealed or Fan Assisted Flue
- Interchangeable Top or Side Flue/Combustion Air Spigot Positions
- Plain Side Panel - Provides Greater Flexibility in Location
- Extended Heads
- Factory Fitted Controls

Caring For The Environment

- High Efficiency

Peace Of Mind

- More Than Fifty Years Experience in Warm Air
- Two Year Parts And One Year Labour Guarantee
- Ten Year Combustion Chamber/Heat Exchanger Warranty



Configuration Powrmatic VPC gas-fired cabinet heaters are vertical in configuration and, dependent upon model, can be specified to provide on/off, high/low or modulated heat outputs.

Efficiencies Fuel usage and emissions are a key consideration within the VPC design with all heaters having low NOx characteristics. Additionally, all heaters have efficiencies which meet or exceed the requirements of current Building Regulations.

Cabinet Frame and panel construction, complete with a separate burner compartment accessed via a full width door and finished with hardwearing epoxy powder coat stove baked paint.

Heat Exchanger Four pass tubular assembly manufactured from aluminised steel formed, swaged and expanded without recourse to stress inducing welding. 409 and 316 grade stainless steel options available.

Burners Multi burner in-shot carefully matched to each tube assembly and manifolded to a common gas valve and ignition system, itself complete with flame monitoring and safety controls and supplied ready for use with Natural Gas (G20).

Alternative LPG propane (G31) firing available to order.

Air Movement Via dynamically balanced and resiliently mounted direct drive centrifugal fan sets. Freeblowing heaters are equipped with heads providing rotational and lateral jet direction and, where applicable, are of extended height. Heaters arranged for ducted applications are provided with an outlet spigot for the onward connection of ductwork.

Controls Heaters are supplied ready for automatic operation and are complete with safety and comfort controls. As standard heaters will be provided with an optimised entry code protected control (mandatory for high/low and modulating applications) which includes a digital time switch, electronic day thermostat and frost protection thermostats. Remote temperature sensor option available.

Alternatively heaters may be specified with our Powrtol control, a high temperature limit protection as well as a digital time switch, mechanical day temperature and night set-back thermostats.

For installer convenience heaters controls are factory fitted as standard but remote stations available as an option.

All heaters have the ability to provide 'fan only' summer air movement.

Approvals All Powrmatic heaters are type tested to meet the stringent requirements of both the Gas Directive and CE accreditation.

Duties

VPC UF / VPC UD

Model			30	52	80	110	130	
Output	kW		30	52	80	110	130	
Input (nett CV)	kW		32.6	56.5	87.0	119.5	141.3	
Volume	m ³ /s		0.87	1.59	2.34	2.96	3.63	
Airflow	Heads	No.	3	3	4	4	4	
	Throw	m	12.0	22.0	21.0	26.0	27.0	
	Fan Static	Standard	Pa	150	200	225	150	200
		Uprated	Pa	N/A				
Electrics	Supply	Standard	V/ph/Hz	230/1/50				
		Optional	V/ph/Hz	415/3/50				
	Standard Fan	Motor	kW	0.37	0.55	1.80	1 x 1.5	1 x 2.2
		Start	amp	7.4	8.7	32.8	32.0	49.0
		Run	amp	3.3	5.4	15.0	8.4	11.9
Fuel	Connection		BSP/Rc	¾"				
	Minimum Inlet Pressure	Nat Gas	mbar	17.5				
		LPG	mbar	37.0				
	Consumption	Nat Gas	m ³ /h	3.45	5.98	9.19	12.64	15.52
		LPG	m ³ /h	1.33	2.31	3.55	4.89	5.78
Overall Dimensions	UF Upright Freeblowing	Height	mm	2184	2640	2804	2715	2997
		Width	mm	750	750	750	750	750
		Depth	mm	1108	1108	1412	1767	1767
Installation Clearances	UF Upright Freeblowing	Front	mm	1000				
		Blank Side	mm	150				
		Louvred Side	mm	1000				
		Rear	mm	500				
Flue	Diameter	mm ø	100		130			
	Maximum Length	Flue Only	m	12				
		Room Sealed	m	6				
Combustion Air Spigot			mm ø	100		130		
Noise Level			dB(A)	55.6	63.6	71.6	67.6	69.6
Nett Weight			kg	178	248	305	362	410

Notes –

Fuel consumption and output figures based upon nett calorific values as follows

Natural gas (G20) nett CV 34.02 MJ/m³

Propane (G31) nett CV 95.65 MJ/m³

Heaters have efficiency levels which meet with the minimum efficiency requirements of UK PartL2B Building Regulations

Air handling data is assessed at room ambient conditions

Throw figures provide the distance to the point where the terminal velocity degrades to 0.25 m/s

Overall vertical heater height include heads or extended heads where appropriate

Standard height heads can be specified where site height is restricted

Blank and louvred lower side panels are interchangeable

Noise levels are applicable to standard UF models and are measured 5m from appliance and in free field conditions

Motor kW, run and start amps apply to standard electrical supply as stated. For optional data contact sales office

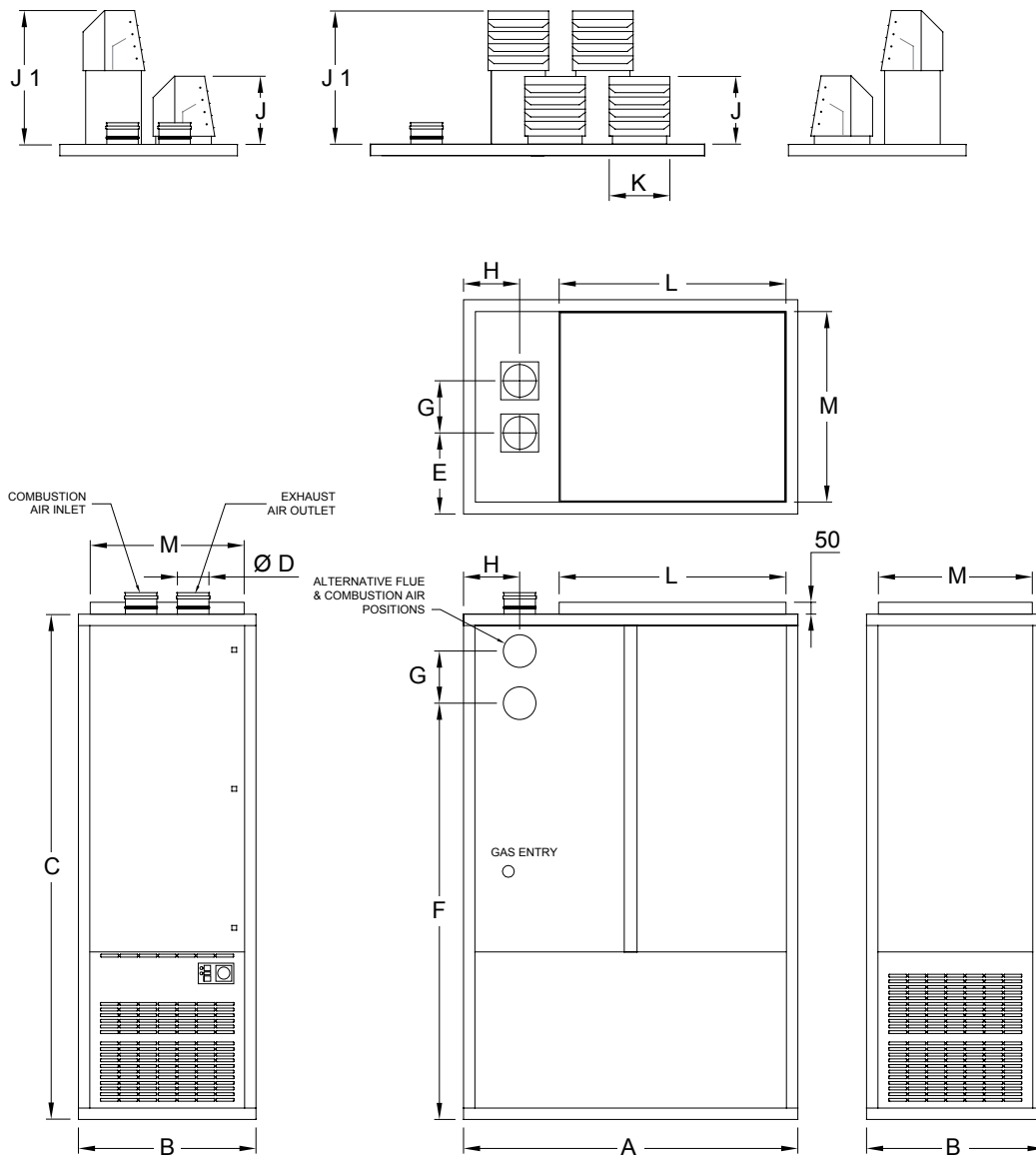
Flue and combustion air maximum runs for guidance purposes only. Please refer to installation instructions for detailed information

Connection of combustion air duct is not required for 'flue only' applications

It is the responsibility of the installing contractor to ensure that ductwork is correctly sized and balanced when installing ducted units

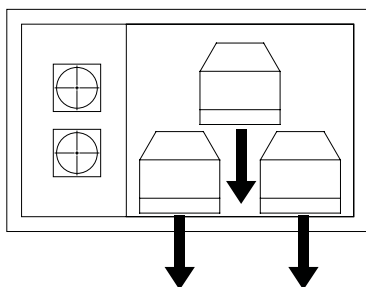
Installer guidance notes on rear page

Dimensions

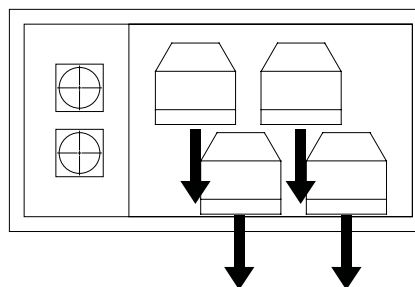


Model	A	B	C	D	E	F	G	H	J	J1	K	L	M	Head Plan
30	1108	750	1676	100	265	1378	142	237	304	508	256	657	650	2
52	1108	750	2132	100	265	1756	142	237	304	508	256	657	650	2
80	1412	750	2132	130	265	1756	220	237	340	672	308	960	650	3
110	1767	750	2043	130	265	1667	220	237	340	672	308	1315	650	3
130	1767	750	2209	130	265	1835	220	237	400	788	358	1315	650	3

HEAD PLAN 2

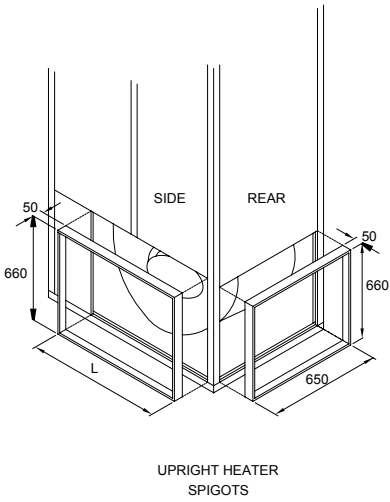


HEAD PLAN 3

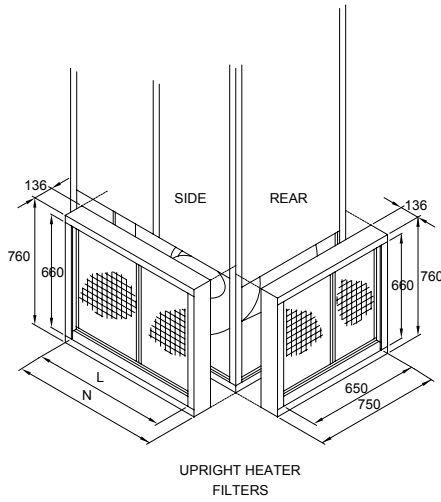


Dimensions

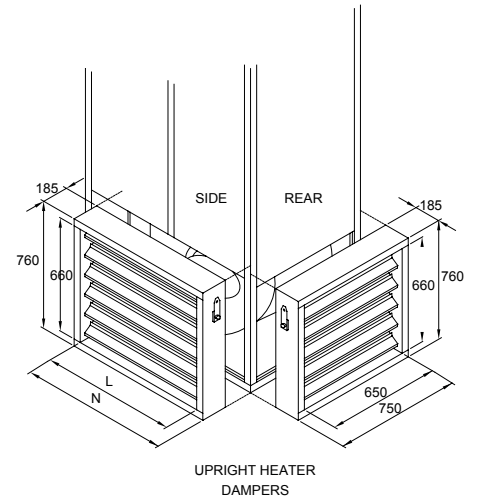
Side / Rear Inlet Spigot



Filters



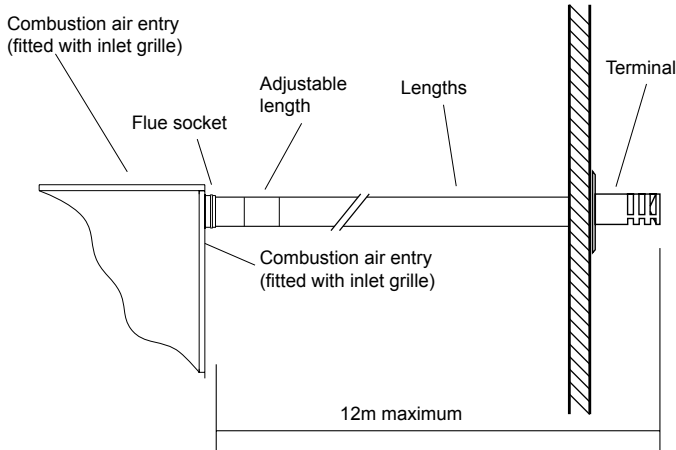
Dampers



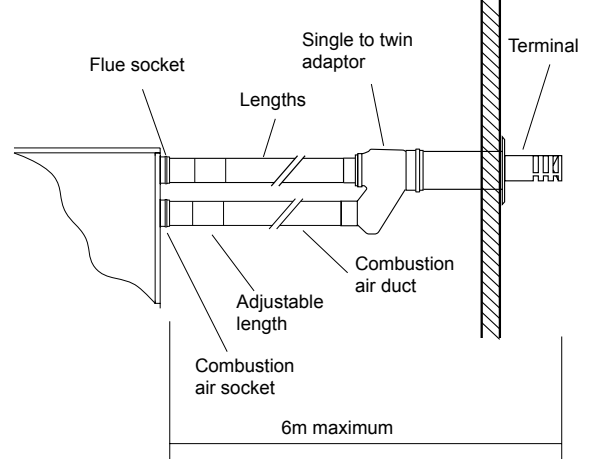
Model	30	52	80	110	130
L	657		960	1315	
N	757		1060	1415	

Flue Arrangements

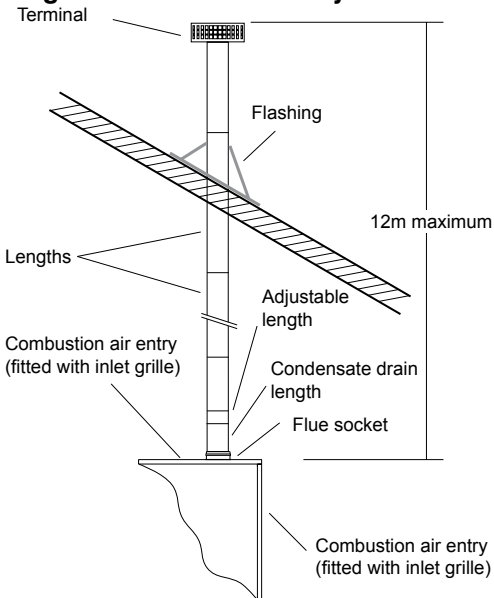
single wall - horizontal flue system



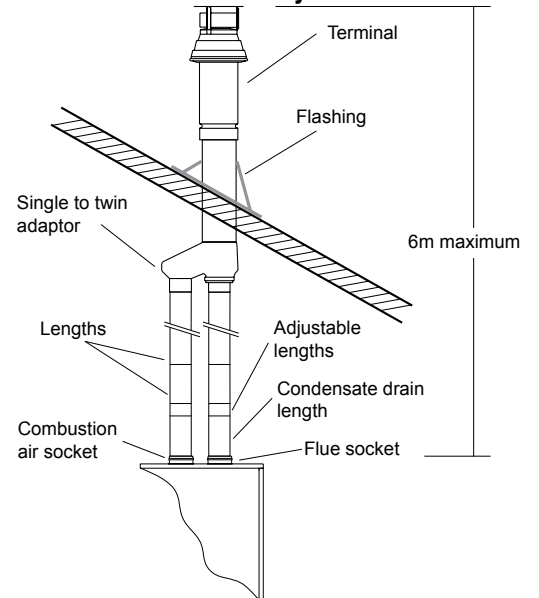
room sealed - horizontal flue system



single wall - vertical flue system



room sealed - vertical flue system



Installer Guide

General The following notes are provided as a help, however installers and operators should fully acquaint themselves with the more detailed guidance provided in the relevant installation manual. For copies of such manuals please consult our technical department or visit our website - www.powrmatic.co.uk

Standards All Powrmatic VPC heaters must be installed, commissioned and operated with due regard to appropriate regulations including but not limited to BS 6230, relevant Codes of Practice, the possible requirements of Local Authorities, Fire Officers and insurers as well as the installation manual.

Position & Location Heaters should be installed on a level non-combustible base. Consideration should also be given to flue routes and points of exit, gas, electrical and where applicable control connections, the throw characteristics of the heater, issues of public access and in the instance of remote temperature sensors the position need to be representative of the zone temperature to which they refer.

Heaters should not be installed in hazardous areas or areas where there is a foreseeable risk of flammable or corrosion inducing particles, gases or vapours being drawn into the combustion air or main fan circuits.

Areas where special consideration or advice may be required could include but is not limited to -

- where de-greasing solvents are present, even in minute concentrations
- where paint spraying is carried out
- where styrenes or other laminating products are used
- where airborne silicone is present
- where petrol engined vehicles are stored or maintained
- where dust is present (ie wood working or joinery shops)
- where high levels of extract persist

Installation in such areas may be possible under specific conditions. Please consult our technical department for further information.

Plant Room or Enclosure Locations Specific requirements exist where heaters are to be installed within plant rooms or enclosures. Such requirements cover the provision of positive ductwork connections as well as ventilation for combustion air and general plant room or enclosure ventilation. It is recommended that you consult with our technical department or the installation manual prior to installation.

Powrmatic Ltd
Hort Bridge
Ilminster
Somerset
TA19 9PS

tel: +44 (0) 1460 53535
fax: +44 (0) 1460 52341
e-mail: info@powrmatic.co.uk
web: www.powrmatic.co.uk



Combustion Air & General Ventilation Within the United Kingdom mandatory regulations apply concerning the provision of combustion air and general heater ventilation. Where a heater is installed in room sealed mode (ie where both the flue exit and combustion air and positively connected to atmosphere) then there is no specific requirement for combustion air ventilation. However, depending upon location, provision for general ventilation may still be a necessity. If the heater is installed in flue only mode and directly within the heated space and where that heated space has a natural ventilation rate greater than 0.5 air changes per hour then combustion air and general heater ventilation is probably not required. If the heated space has a natural ventilation rate of less than 0.5 air changes per hour then either natural ventilator openings or mechanical ventilation will be required. Please consult the installation manual for further details.

Installation Clearances Particular clearances may be necessary for the correct and safe function of the heater as well as for maintenance purposes. Such clearances are confirmed in the relevant installation manual.

Flue Powrmatic VPC heaters can be installed in either room sealed or flue only mode. Each heater requires a separate flue and/or combustion air intake system of the appropriate size and type. Installers are reminded that type approval has been granted for these appliances on the basis that they are fitted with Powrmatic VPC flue systems. Maximum lengths apply and should be strictly observed.

Systems may be installed in either the horizontal or vertical plane. In either case the number of bends kept to a minimum and regard must be given to the reduction in permissible length with the addition of each bend. The flue must be adequately supported and terminated with the approved terminal assembly, with due regard to the point of exit and it's proximity to any windows, doors or ventilation intakes etc.

Pipework Care should be taken when sizing pipework to ensure that minimum gas inlet pressures are not compromised under dynamic load conditions. Isolating valves and service unions should be provided for each heater and pipework installed with due regard for relevant standards and Codes of Practice.

Guarantee Powrmatic VPC heaters are provided with a comprehensive guarantee covering both the heater and the heat exchanger. For United Kingdom sales the heater has the benefit of a **two year** parts and **one year** labour guarantee whilst the heat exchanger assembly has a **ten year** time related warranty. All guarantees are subject to terms and conditions.

Powrmatic Ireland
45 Broomhill Close
Tallaght
Dublin 24

tel: +353 (0) 1452 1533
fax: +353 (0) 1452 1764
e-mail: info@powrmatic.ie
web: www.powrmatic.ie

