



SOLARGLOW

CERAMIC PLAQUE HEATERS

Introduction

The Solarglow range of heaters comprise 6 sizes with inputs from 6.5kW to 27kW and are suitable for both natural gas and propane.

Each heater comprises an aluminised steel combustion chamber and chassis, ceramic burner assembly which is supplied with a gas/air mixture from a natural draught injector venturi. Highly polished aluminium parabolic reflectors can be adjusted to enable directional control of the radiant heat. The heaters are particularly suitable for high roof buildings which suffer high air changes or for spot heating applications.

Control, ignition and safety monitoring of the burner is completely automatic.

Solarglow benefits

Optimum surface temperature of almost 1000°C within 2m of ignition.

- Minimal air movement avoiding airborne dust and pollution problems.
- A high level of comfort achieved within spot heating applications.
- A higher floor temperature for all-round comfort conditions.

The advantages

- Aluminised steel combustion chamber for durability and long life.
- Heat regain panels to direct hot flue gases over combustion chamber to pre-heat gas/air mix.
- Alveolar ceramic plaques with recuperator mesh for high radiant efficiency.
- Adjustable highly polished parabolic reflectors for maximising downward radiant heat intensity and coverage.
- High/low firing at full radiant efficiency for optimum control and comfort.
- Fully automatic in operation having electronic programme start up with spark ignition and flame failure safety control.
- Lightweight and easy to install.
- Silent in operation.

The economics

Solarglow gas radiant heaters offer very substantial savings for areas of intermittent or spot heating.

- Much lower running costs.
- Lower capital cost.
- Lower installation costs due to its lightweight construction and ease of handling.
- Exceptionally low maintenance costs.
- Low electrical load.

Specification and technical data

Model		SG21	SG31	SG41	SG42	SG62	SG82
Heat input							
On/Off	kW	6.5	10.5	13.5	13.0	21.0	27.0
High	kW	n/a	n/a	n/a	13.0	21.0	27.0
Low	kW	n/a	n/a	n/a	6.5	10.5	13.5
Maximum gas consumption							
Natural gas	m ³ /h	0.60	0.93	1.26	1.22	1.86	2.40
LPG	m ³ /h	0.25	0.40	0.51	0.50	0.80	1.02
Gas supply	Connection 1/2 in BSP external thread : max pressure 65mbar nat. gas (min 18 mbar)						
Electrical supply	230 volt 1 phase 50Hz						
Current rating							
Running current single burner				0.13 amp			
dual burner				0.25 amp			
Starting current single burner				0.25 amp			
dual burner				0.50 amp			
External fuse rating	3 amp external						
Ignition	Electronic programme start up with spark ignition						

Solarglow plaque heaters are manufactured with BS.3561 and are classed as flueless appliances, therefore building ventilation must comply with BS EN 13410:2001

Mounting heights

Model	Mounting position	Minimum mounting height (m)	Mounting height guide (m)
SG21	Horizontal	3.3	4.0 - 5.0
SG21	Inclined	2.7	3.5 - 4.0
SG31	Horizontal	3.5	4.0 - 6.0
SG31	Inclined	3.0	3.5 - 5.5
SG41	Horizontal	4.2	5.0 - 7.0
SG41	Inclined	3.6	4.5 - 6.0
SG42	Horizontal	4.2	5.0 - 7.0
SG42	Inclined	3.6	4.5 - 6.5
SG62	Horizontal	5.5	6.0 - 8.0
SG62	Inclined	5.0	5.5 - 7.5
SG82 *	Horizontal	6.5	7.0 - 12.0
SG82 *	Inclined	6.0	7.0 - 11.0

* Please refer to Ambi-Rad design office when mounting above 11 metres. For spot heating applications, use minimum mounting heights.

Distance from combustibles

Model	SG21	SG31	SG41	SG42	SG62	SG82
Above	750	750	750	750	750	750
Infront	2600	2600	2600	2600	2600	2600
Side	1100	1100	1100	1100	1100	1100

Weight

Model	SG21	SG31	SG41	SG42	SG62	SG82
kg	11	13	15	15	18.5	22



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ENERGY EFFICIENT HEATING SYSTEMS



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