61,000 - 102,000BTU/HR 18-30Kw SPACE WARMER® PROPANE HEATER

MODEL NO: **LP100.V6**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.

Refer to instruction manual | Electrical shock hazard | Hot surfaces | Do not cover | Keep dry

This product is not suitable for primary heating purposes.

1. SAFETY

1.1. ELECTRICAL SAFETY

❑ **WARNING!** It is the user's responsibility to check the following:
Check all electrical equipment and appliances to ensure that they are safe before using. Inspect power supply leads, plugs and all electrical connections for wear and damage. Sealey recommend that an RCD (Residual Current Device) is used with all electrical products. You may obtain an RCD by contacting your local Sealey stockist.
If used in the course of business duties, it must be maintained in a safe condition and routinely PAT (Portable Appliance Test) tested.
Electrical safety information, it is important that the following information is read and understood.

✓ Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.

✓ Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that they are secure.

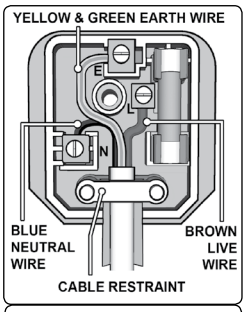
✓ Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating in these instructions.

× **DO NOT** pull or carry the appliance by the power cable.

× **DO NOT** pull the plug from the socket by the cable.

× **DO NOT** use worn or damaged cables, plugs or connectors. Ensure that any faulty item is repaired or replaced immediately by a qualified electrician.

✓ This product is fitted with a BS1363/A 13 Amp 3 pin plug.
If the cable or plug is damaged during use, switch the electricity supply and remove from use.
Ensure that repairs are carried out by a qualified electrician.
Replace a damaged plug with a BS1363/A 13 Amp 3 pin plug. If in doubt contact a qualified electrician.
a) Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.
b) Connect the BROWN live wire to the live terminal 'L'.
c) Connect the BLUE neutral wire to the neutral terminal 'N'.
Ensure that the cable outer sheath extends inside the cable restraint and that the restraint is tight.
Sealey recommend that repairs are carried out by a qualified electrician.



Recommended fuse rating
5Amp

1.2. GENERAL SAFETY

❑ **WARNING!** failure to comply with the precautions and instructions provided with the heater can result in death, serious bodily injury and property loss or damage from the hazards of fire, explosion, burning, asphyxiation, carbon monoxide poisoning and/or electric shock.

❑ **WARNING!** Only persons who can understand and follow these instructions should use or service this heater. Not for home or recreational vehicle use.

❑ **WARNING! NOT** to be used for the heating of habitable areas of domestic premises: for use in public buildings, refer to national regulations.

✓ Only use outdoors or in well ventilated surroundings in a well ventilated area away from combustible materials.

✓ For every kW it is necessary to have a permanent ventilation of 25cm x 25cm.

✓ Never direct the hot air flow towards the cylinder.

✓ Never use the heater without its cover.

× **DO NOT** exceed 100W/m³ of free room. The minimum volume of the room must be larger than 100m³.

× **DO NOT** use in cellars, basements or in any room below ground level.

× **DO NOT** obstruct the inlet or outlet sections of the heater.

❑ **WARNING! DO NOT cover the heater.**

❑ **WARNING!** some parts of the heater can become very hot and cause burns. Particular attention has to be given to where children and venerable people are present.

✓ The heater must be placed where there is no risk of fire, the hot air outlet must be at least 3mtr from any flammable wall or ceiling and must never be directed towards the gas bottle.

✓ Turn off the gas supply at the cylinder valve after use.

✓ Only use the propane gas pressure regulator and hose assembly supplied with the heater without alteration.

✓ Gas cylinder must be used and kept in accordance with current regulations.

✓ The gas bottle must be replaced according to safety rules and away from sources of ignition.

✓ The gas hose must not be twisted or bent.

- ✓ If a gas leak is found or suspected, immediately turn off the gas cylinder, switch the heater off and **DO NOT** use again until it has been checked by a qualified service centre. If the heater is installed indoors, provide good ventilation by opening doors and windows completely. **DO NOT** produce sparks or open flames.
- ✓ Ensure the fan is operating correctly before lighting the burners.
- ✓ If the heater has to work for a long periods at its maximum capacity it is possible that ice will form on the cylinder. This is due to excessive vapour withdrawal. **NEVER** heat the cylinder for this or any other reason. To avoid this effect or at least reduce it, use a large cylinder or at least two cylinders linked together, see fig.1.
- ❑ **WARNING!** Disconnect heater from mains electrical supply and gas cylinder before servicing or performing maintenance. Replace or repair damaged parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
  This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience or knowledge if they have been given supervision or instruction concerning the use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance.
- ✓ Cleaning and maintenance shall not be undertaken by children without supervision.
- ✓ Children of less than 3 years should be kept away unless continuously supervised.

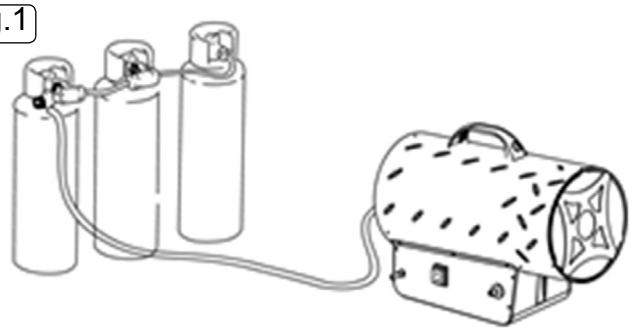
2. INTRODUCTION

61,000 - 102,000Btu/hr (18 - 30kW) variable output (propane). Fully approved gas regulator. Features safety solenoid preventing the unit from leaking gas without first being electrically started. Fan assisted, fitted with a piezoelectric ignition system for trouble-free starting and features a direct gas head assembly.

3. SPECIFICATION

Model no:	**LP100.V6**
Supply:	230V
Fuse rating	5A
Gas type:	Propane
Output:	61,000-102,000Btu/hr (18-30kW)
Gas consumption:	1.3-2.18kg/hr
Airflow:	580cfm

fig.1



4. OPERATION

4.1. Refer to instructions in Safety section 1 above.

4.2. Safety clearance see fig.2.

4.3. Connect gas supply hose to pressure regulator and connect regulator to a suitable LPG cylinder (left hand threaded nut).

4.3.1. Open the gas cylinder tap and check supply hose and fittings for gas leaks. Use an approved leak detector or soapy water.

❑ **WARNING! NEVER USE NAKED FLAMES**

4.4. Connect to mains power.

4.5. **IGNITION**

4.5.1. Turn the power switch to position “I” and check the fan starts running correctly.

4.5.2. Push the gas valve button and repeatedly push the piezoelectric lighter until the flame lights up see fig.3. **CAUTION If ignition is difficult or irregular before repeating the ignition operations make sure that the fan is not locked and that the air inlet and outlet are unobstructed.**

4.6. **SWITCH OFF**

4.6.1. To stop the heater shut off the gas cylinder tap.

4.6.2. Let the fan run until the flame shuts down and then turn the fan switch to position “O”.

fig.2

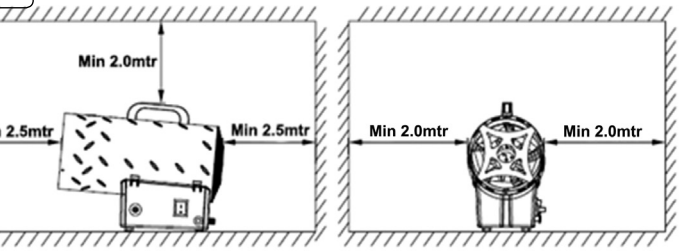
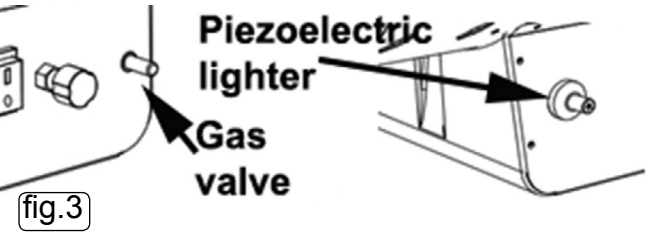


fig.3



4.7. **ASPHYXIATION HAZARD**

× **DO NOT** use in domestic situations.

× **DO NOT** use in unventilated areas. The flow of combustion and ventilation air must not be obstructed. Proper ventilation air must be provided to support the combustion.

❑ **WARNING!** If gas is smelt immediately switch off appliance at the gas bottle. Check the appliance for leaks using an approved leak detector, if the leak can not be found switch off gas supply and seek professional help. Be aware that in the event of a gas leak ensure that the area is fully ventilated and any form of ignition should be avoided.

5. MAINTENANCE

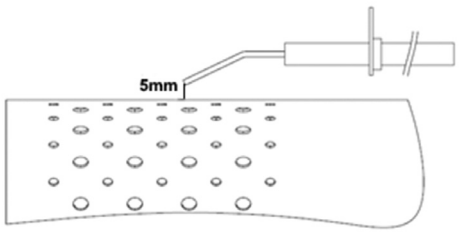
5.1. Repairs and maintenance must only be carried out by qualified personnel.

5.2. The heater must be checked by a qualified technician at least once a year.

5.3. Regularly check the condition of the gas hose and gas regulator if it must be replaced only use original spare parts.

5.4. Check the starting electrode position, see fig.4.

fig.4



5.5. Check the connections of the safety thermostat and of the thermocouple: they must always be clean.

5.6. If necessary clean the fan blade and the inside of the heater using compressed air.

❑ **WARNING: AIR CONTAMINANTS**

Air contaminants taken into the heater will damage the unit, cause health problems and safety issues.
For example: Body shop filler dust and overspray dust will clog the burner diffuser, contaminate the combustion chamber and damage the internal parts of the heater. If contaminants are present the heater must be supplied with ducted clean air.
Please note that any parts damaged by filler dust or overspray dust will not be covered by warranty. Additionally a cleaning charge will be made for any heaters damaged by filler dust or overspray dust.

6. TROUBLESHOOTING

Problem	Causes	Solution
Motor does not work	No electrical supply	Check terminal board with a tester
Motor works but the burner does not light up and after a few seconds the heater stops	The gas cylinder tap is closed	Open the gas tap
	The gas cylinder is empty	Use a new cylinder
	The nozzle is obstructed	Remove the nozzle and clean it
	The solenoid gas valve is not open	Check that the solenoid valve works
	There is no spark	Check the position of the electrode
The burner lights up but after a few seconds the heater stops	Defective connection between censor and safety device	Check and connect properly
	Defective safety device	Replace the safety device
The heater stops during operation	Insufficient air flow	Check that the motor works properly
	Insufficient gas supply due to ice formation on the cylinder	Check and use a larger cylinder or two cylinders connected together

WEEE REGULATIONS
Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

ENVIRONMENT PROTECTION
Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.
Important: No Liability is accepted for incorrect use of this product.
Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

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SEALEY

Information requirements for gaseous/liquid fuel local space heaters

Model identifier(s):	LP100.V6		
Indirect heating functionality:	Yes	No ✓	
Direct heat output:	30.0 (kW)	Indirect heat output:	N/A (kW)

Fuel			Space heating emissions NO_x nitrogen oxides
Select fuel type:	Gaseous ✓ Liquid	Specify: G30	120.41 [mg/kWh_{input}] (GCV)

Item	Symbol	Value	Unit
Heat output			
Nominal heat output	P_{nom}	30.0	kW
Minimum heat output (indicative)*	P_{min}	18.0	kW
Auxiliary electricity consumption			
At nominal heat output	el_{max}	N/A	kW
At minimum heat output	el_{min}	N/A	kW
In standby mode	el_{SB}	N/A	kW
Permanent pilot flame power requirement			
Pilot flame power required (if applicable)*	P_{pilot}	N/A	kW

Item	Symbol	Value	Unit
Useful efficiency (NCV)			
Useful efficiency at nominal heat output	$\eta_{th,nom}$	100	%
Useful efficiency at minimum heat output (indicative)*	$\eta_{th,min}$	100	%

Type of heat output/room temperature control (select one)	
Single stage heat output, no room temperature control	Yes No ✓
Two or more manual stages, no room temperature control	Yes ✓ No
With mechanical thermostat room temperature control	Yes No ✓
With electronic room temperature control	Yes No ✓
With electronic room temperature control plus day timer	Yes No ✓
With electronic room temperature control plus week timer	Yes No ✓
Other control options (multiple selections possible)	
Room temperature control, with presence detection	Yes No ✓
Room temperature control, with open window detection	Yes No ✓
With distance control option	Yes No ✓
With adaptive start control	Yes No ✓
With working time limitation	Yes No ✓
With black bulb sensor	Yes No ✓

** Enter figure or NA*

The seasonal space heating energy efficiency η_s

Item	Symbol	Value	Unit
The seasonal space heating Energy efficiency in active mode	$\eta_{s,on}$	100	%
The seasonal space heating energy efficiency η_s	η_s	91.0	%
Energy efficiency classes		A	

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v1 ERP Table 1

Original Language Version