102,000-170,000BTU/HR (30-50KW) SPACE WARMER® PROPANE HEATER

MODEL NO: **LP170.V3**

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 instructions


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 dealer.
If used in the course of business duties, it must be maintained in a safe condition and routinely PAT (Portable Appliance Test) tested.
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.

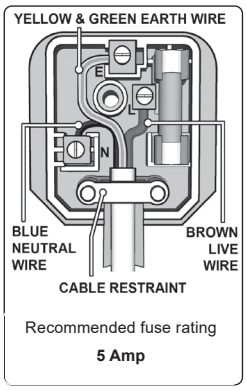
✓ Ensure that the voltage rating on the appliance suits the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating in these instructions.

× **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 immediately by a qualified electrician.

✓ This product is fitted with a BS1363/A 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 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
5 Amp

1.2. GENERAL SAFETY

❑ **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.

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

❑ **WARNING! DO NOT** use in basements or areas below ground level.

✓ Store gas cylinders in accordance with regulations applicable to such appliances.

✓ Ensure that nothing stands or passes in front of the heater. Minimum distance from the heater is 2 metres at the front, sides and rear 0.65m and 0.95m above

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

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

✓ Ensure continuous ventilation is provided to the heater operating area. A ventilation opening must run to the outside of the premises where the heater is to be operated. The opening must be 100cm² for every kW and must also be set at an equal distance from the upper and lower parts of the heater operating area.

❑ **WARNING!** If the heater is used for prolonged periods at maximum power, ice may form on the propane cylinder. This is due to excessive evaporation. In such a case **DO NOT** use the heater to de-ice the cylinder.

❑ **WARNING!** If the smell of gas is present, isolate the gas cylinder immediately and investigate reason before re-connecting it.

× **DO NOT** use the heater if damaged. Take immediate action to repair or replace damaged parts. Use an authorised service agent only.

× **DO NOT** use the heater for residential use or in recreational vehicles.

× **DO NOT** allow untrained persons to ignite the heater.

× **DO NOT** operate the heater without the cover.

× **DO NOT** use a naked flame to try and ignite the heater.

× **DO NOT** use the heater near flammable or explosive materials - liquids, solids or gases.

× **DO NOT** cover the heater whilst in use.

× **DO NOT** leave the heater unattended whilst in use.

× **DO NOT** obstruct the air inlet and outlet sections of the heater. Keep immediate area clean and tidy.

× **DO NOT** point the heater towards the gas cylinder.

✓ Keep children and vulnerable people away from the heater.

✓ Keep the heater clean and in good working order.

✓ Ensure that the heater is correctly turned off and the gas source isolated when not in use.

✓ When not in use for any length of time, store heater in a safe, dry, childproof location.

NOTE: 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 and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

2. INTRODUCTION

Many users have found the advantages of propane heaters far outweigh the small additional running costs. The fuel is more completely burned and does not leave an oily residue as experienced with paraffin heaters. There is no odour, except for the few seconds during start-up and the units run a little more quietly since they do not need a compressor to drive the fuel to the burner.
Heaters are fan assisted, fitted with a piezoelectric ignition system for trouble-free starting and feature a direct gas head assembly. Safety solenoids prevent the heater from leaking gas without first being electrically started. Supplied with an approved propane gas regulator and hose. All models are tested and certified to CE/EN standards. Manufactured to BS EN 1596.

3. SPECIFICATION

Model No:..... **LP170.V3**
Output:..... 102,000-170,000Btu/hr(30-50kW)
Fuel:..... Propane*
* Can also be used with Butane (only with an Approved Regulator)
Fuel Consumption:..... 2.18-3.63kg/hr
Airflow:..... 400cfm
Supply:..... 230V
Fuse rating..... 5A
Heated Area:..... 23,000ft³ (650mtr³)

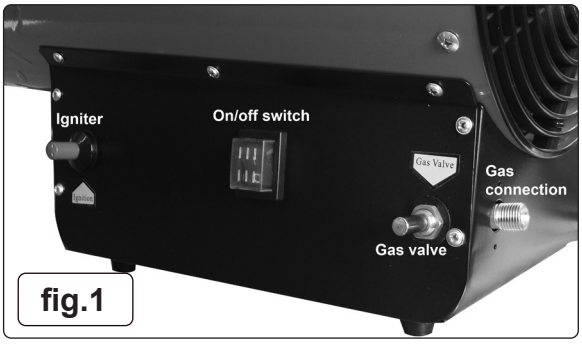


fig.1

4. OPERATION

This heater is not supplied with a gas cylinder. Use only an approved gas cylinder.

❑ **WARNING:** If the heater is used continuously for a long period, ice may form on the outside of the gas cylinder. This is due to excessive vapour withdrawal;

× **DO NOT** apply heat to the cylinder. Consult your gas supplier regarding the provision of a multi-cylinder arrangement using the correct manifold (fig.3).

4.1. PRE LIGHTING

4.1.1. Connect the heater to the electric supply.

4.1.2. With the cylinder supply valve turned off, connect the regulator to the cylinder; this is a left hand thread - turn anticlockwise (fig.2).

4.1.3. Connect one end of the hose to the regulator and the other to the gas connection on the base of the heater (both these connections also have left hand threads).

4.1.4. Open the cylinder supply valve slowly and check all connections for leaks. Brushing soapy water around the connections and watching for bubbles is a good indicator.

4.1.5. Tighten any suspect connections,if found and re-check.

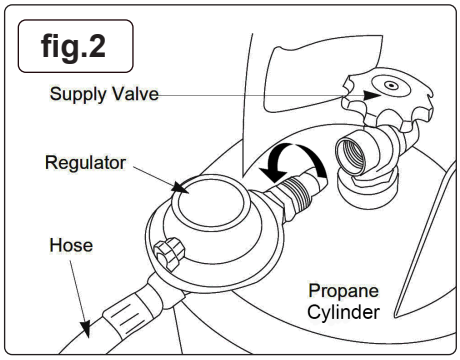


fig.2

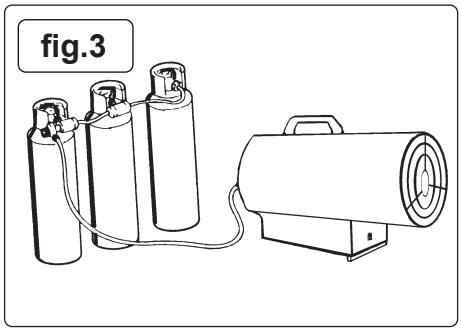


fig.3

4.2. IGNITING

4.2.1. Open the gas supply valve.

4.2.2. Switch on the fan by means of the on/off switch (fig.1) and ensure that the fan is running.

4.2.3. Press the gas valve and keep pressed.

4.2.4. Press the igniter button repeatedly until the burner is heard to ignite.

4.2.5. Keep the gas valve pressed for about 10 seconds. When the valve button is released, the flame should remain lit. If the flame does not stay alight, wait for 1 minute and repeat 4.2.3. and 4.2.4.

4.2.6. The heat output can be adjusted by opening or closing the gas control valve on the gas cylinder.

4.2.7. The heater is protected by an overheat thermostat. If thermostat operates, determine reason for the overheat situation and remedy.

4.3. SWITCHING OFF

4.3.1. Screw the gas control valve anticlockwise until tightened fully.

4.3.2. Leave the fan running until the casing has cooled down, then switch off and disconnect from the electric supply.

5. MAINTENANCE & STORAGE

5.1. Always disconnect the heater from the gas cylinder before putting the heater into storage. If for any reason the heater is to be stored indoors, disconnect from the gas cylinder, and store the cylinder outdoors in a well-ventilated area, out of the reach of children. The plastic valve plug or valve cover supplied with the cylinder must be re-installed on the valve to protect the fitting from damage.

5.2. **ALWAYS** be sure to follow proper maintenance procedures. This should include cleaning the inside of the heater once a month and checking the spark gap at least once a heating season. Re-gap the ignition electrode to 4mm.

NOTE:- Installation and repair of this heater should be done by a qualified service person.

❑ **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	Possible Cause	Solution
Fan does not turn when electricity is connected	No electric power to heater	Check current at outlet. If voltage is correct, inspect extension and power cords for cuts, frays or breaks.
	Blades of fan in contact with heater housing	Check housing for damage. Be sure there are no dents in the housing obstructing the fan.
	Fan blades bent	Straighten all fan blades
	Fan motor defective	Replace motor assembly
Heater will not ignite	No spark at ignition electrode	Inspect electrode wire. Re-attach or tighten if loose. Inspect ignition electrode and replace if necessary. Inspect all other electrical components.
	Incorrect spark gap	Set ignition electrode gap to 4mm.
	Corroded electrodes	Replace ignition electrode plug
Heater stops running by itself	Temperature inside heater is too high, causing thermal switch to shut down operation.	If the heater input or output is restricted, the inside temperature can become too hot. Keep the areas in front and behind clear of obstructions.
	Dust or Debris accumulated in heater.	Clean inside of heater

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.

REGISTER YOUR PURCHASE HERE

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.

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. Please note that other versions of this product are available. If you require documentation for alternative versions, please email or call our technical team on technical@sealey.co.uk or 01284 757505.
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): LP170 v3							
Indirect heating functionality: Yes	No ✓						
Direct heat output: 50 (kW)				Indirect heat output: N/A (kW)			
Fuel				Space heating emissions NO_x nitrogen oxides			
Select fuel type:	Gaseous ✓ Liquid	Specify: Propane		78 [mg/kWh$_{input}$] (GCV)			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Heat output				**Useful efficiency (NCV)**			
Nominal heat output	P_{nom}	50.0	kW	Useful efficiency at nominal heat output	$\eta_{th,nom}$	100	%
Minimum heat output (indicative)*	P_{min}	30.0	kW	Useful efficiency at minimum heat output (indicative)*	$\eta_{th,min}$	N/A	%
				Seasonal space heating efficiency	η_S	75.0	%
Auxiliary electricity consumption				**Type of heat output/room temperature control (select one)**			
At nominal heat output	el_{max}	0.07	kW	Single stage heat output, no room temperature control		Yes	No ✓
At minimum heat output	el_{min}	N/A	kW	Two or more manual stages, no room temperature control		Yes ✓	No
Power consumption				With mechanical thermostat room temperature control		Yes	No ✓
In off-mode	P_O	N/A	W	With electronic room temperature control		Yes	No ✓
In standyby mode	P_{sm}	N/A	W	With electronic room temperature control plus day timer		Yes	No ✓
In idle mode	P_{dle}	N/A	W	With electronic room temperature control plus week timer		Yes	No ✓
In networked standby mode	P_{nsm}	N/A	W	**Other control options (multiple selections possible)**			
Standby mode with display information or status		NO		Room temperature control, with presence detection		Yes	No ✓
				Room temperature control, with open window detection		Yes	No ✓
				With distance control option		Yes	No ✓
* *Enter figure or NA*				With adaptive start control		Yes	No ✓
Permanent pilot flame power requirement				With working time limitation		Yes	No ✓
Pilot flame power required (if applicable)*	P_{pilot}	0	kW	With black bulb sensor		Yes	No ✓
				With self-learning functionality		Yes	No ✓
				With control accuracy		Yes	No ✓