

Models: **LP35, LP60, LP80, LP100, LP125, LP200, & LP300.**

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.



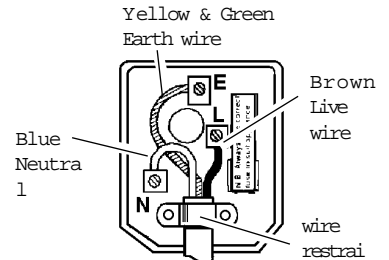
IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE OR PERSONAL INJURY, AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS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

1. SAFETY INSTRUCTIONS

1.1. ELECTRICAL SAFETY. **WARNING!** It is the user's responsibility to read, understand and comply with the following:

You must check all electrical equipment and appliances to ensure they are safe before using. You must inspect power supply leads, plugs and all electrical connections for wear and damage. You must ensure the risk of electric shock is minimised by the installation of appropriate safety devices. An RCCB (Residual Current Circuit Breaker) should be incorporated in the main distribution board. We also recommend that an RCD (Residual Current Device) is used with all electrical products. It is particularly important to use an RCD together with portable products that are plugged into an electrical supply not protected by an RCCB. If in doubt consult a professional electrician. You may obtain a Residual Current Device by contacting your Sealey dealer. **You must** also read and understand the following instructions concerning electrical safety.

- 1.1.1. The **Electricity At Work Act 1989** requires all portable electrical appliances, if used on a business premises, to be tested by a qualified Electrician at least once a year by using a Portable Appliance Tester (PAT).
- 1.1.2. The **Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of the appliance, and the safety of the appliance operator. **If in any doubt about electrical safety, contact a qualified electrician.**
- 1.1.3. Ensure the insulation on all cables and the product itself is safe before connecting to the mains power supply. See 1.1.1. & 1.1.2. above and use a Portable Appliance Tester (PAT).
- 1.1.4. Ensure that cables are always protected against short circuit and overload.
- 1.1.5. Regularly inspect power supply, leads, plugs and all electrical connections for wear and damage, especially power connections, to ensure that none are loose.
- 1.1.6. **Important:** Ensure the voltage marked on the product is the same as the electrical power supply to be used, and check that plugs are fitted with the correct capacity fuse. A 13Amp plug may require a fuse smaller than 13Amps for certain products (*subject to 1.1.10. below*) see fuse rating at right.
- 1.1.7. **DO NOT** pull or carry the powered appliance by its power supply lead. Products such as welders must not be pulled or carried by their output cables.
- 1.1.8. **DO NOT** pull power plugs from sockets by the power cable.
- 1.1.9. **DO NOT** use worn or damage leads, plugs or connections. Immediately replace or have repaired by a qualified Electrician. A U.K. 3 pin plug with ASTA/BS approval is fitted. In case of damage, cut off and fit a new plug according to the following instructions (discard old plug safely). (UK only - see diagram at right). **Ensure the unit is correctly earthed via a three-pin plug.**
 - a) **Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.**
 - b) **Connect the BROWN live wire to live terminal 'L'.**
 - c) **Connect the BLUE neutral wire to the neutral terminal 'N'.**



FUSE RATING
THIS PRODUCT MUST BE FITTED
WITH A:
13 Amp FUSE

After wiring, check there are no bare wires, that all wires have been correctly connected and that the wire restraint is tight.

Double insulated products are often fitted with live (BROWN) and neutral (BLUE) wires only. Double insulated products are always marked with this symbol. **To re-wire, connect the brown & blue wires as indicated above. DO NOT connect the brown or blue to the earth terminal.**

- 1.1.10. Some products require more than a 13Amp electrical supply. In such a case, **NO** plug will be fitted. **You must** contact a qualified Electrician to ensure a 30 amp fused supply is available. We recommend you discuss the installation of a industrial round pin plug & socket with your electrician.
- 1.1.11. **Cable extension reels.** When a cable extension reel is used it should be fully unwound before connection. A cable reel with an RCD fitted is recommended since any product which is plugged into the cable reel will be protected. The section of the cable on the cable reel is important. We recommend that at least 1.5mm² section cable but to be absolutely sure that the capacity of the cable reel is suitable for this product and for others that may be used in the other output sockets, we recommend the use of 2.5mm² section cable.

1.2 GENERAL SAFETY

- 4 Check that the heater is in sound condition and not damaged. *Take immediate action to repair or replace damaged parts.*
- 4 Use recommended parts only. *Non recommended parts may be dangerous and will invalidate the warranty.*
- 4 Store gas cylinders in accordance with regulations applicable to such appliances.
- 4 Ensure nothing is standing or passing in front of the heater. *Mandatory minimum distance from the heater is 1m.*
- 4 Use the supplied pressure regulator only.
- 4 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 25cm² for every kW and must also be set at an equal distance from the upper and lower parts of the heater operating area.*
- 4 Ensure the heater is correctly turned off when not in use.
- 8 **DO NOT** use the heater if damaged. *Take immediate action to repair or replace damaged parts. Use authorised service agent only.*
- 8 **DO NOT** allow untrained persons to ignite the heater.
- 8 **DO NOT** operate the heater without its cover.
- 8 **DO NOT** exceed the 100W/m³ limit considering the volume of the empty operating area.
- 8 **DO NOT** use a naked flame to try and ignite the heater.
- 8 **DO NOT** use the heater near flammable material, liquids, solids, or gases.
- 8 **DO NOT** obstruct the air inlet and outlet sections of the heater.
- 8 **DO NOT** point the heater at the gas cylinders.
- 4 Keep the heater clean and in good working order, and store the heater in a safe area, out of reach of children.

WARNING! *If the heater is used for prolonged periods at its 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 cylinders.*

2. TECHNICAL SPECIFICATIONS

Model:	LP35	LP60	LP80	LP100
Output (Propane):	.10 KW/Hr	.15 KW/Hr	.16.5 - 25.6 KW/Hr	.12.5 - 31.2 kW/Hr
Output (EN1596):	10.8 KW/Hr	16.2 KW/Hr	17.6 - 29 KW/Hr	15 - 39 KW/Hr
Output (Propane):	.35,000	.52,000	.56,300 - 87,400	.42,000 - 106,400
Output (EN1596):	.36,880 BThu/Hr	.55,320 BThu/Hr	.60,000-90,000 BThu/Hr	.51,000 -131,793 BThu/Hr
Air Flow:	.300 M3/H	.300 M3/H	.550 M3/H	.750 M3/H
Fuel Consumption:	.0.8 kg/Hr	.1.17 kg/Hr	.1.2 -1.8 kg/Hr	.1.0 -2.46 kg/Hr
Electrical input:	.230V - 0.15A	.230V - 0.15A	.110/230V - 0.72/1.5A	.110/230V - 0.72/1.5A
Length:	.390 mm	.490 mm	.500 mm	.530 mm
Width:	.180	.180	.250	.280
Height:	.270	.270	.420	.400
Fuel:	.Propane	.Propane	.Propane	.Propane
Heated Area:	.8,750	.15,000	.20,000	.26,000

Model:	LP125	LP200	LP300
Output (Propane):	.26.6 - 43.5 KW/Hr	.34.9 - 58.5 KW/Hr	.50.1 - 82.2 KW/Hr
Output (EN1596):	.33.24 -54.53 KW/Hr	.43.41 - 77 KW/Hr	.68.4 -102.2 KW/Hr
Output (Propane):	.90,000 -148,500	.119,000 - 200,000	.171,000-280,500
Output (EN1596):	.113,000 -186,000 BThu/Hr	.148,000 - 263,000 BThu/Hr	.234,000 - 348,900 BThu/Hr
Air Flow:	.850 M3/H	.1800 M3/H	.2450 M3/H
Fuel Consumption:	.2.09 - 3.41 kg/Hr	.2.8 - 4.64 kg/Hr	.3.9 - 6.5 kg/Hr
Electrical input:	.110/230V - 0.72/1.5A	.110/230V - 0.65/1.3A	.110/230V - 0.65/1.3A
Length:	.690 mm	.780 mm	.925 mm
Width:	.280	.370	.370
Height:	.400	.520	.520
Fuel:	.Propane	.Propane	.Propane
Heated Area:	.37,000	.50,000	.70,000

3. INSTALLATION

If you use a small gas cylinder the heater may not operate at its maximum efficiency. We recommend the use of two or more cylinders linked in parallel to achieve maximum continuous efficiency (fig 1).

- 3.1. Check heater and gas cylinders to ensure they are in good order and condition. If not stop and contact your supplier immediately.
- 3.2. Site the heater and gas cylinders in the operational area.
- 3.3. Connect heater to an electric socket ensuring that the machine is correctly earthed. *See safety instructions.*
- 3.4. Connect the gas supply hose to the pressure regulator and connect the regulator to the gas cylinder.
- 3.5. Gradually open the tap of the gas cylinder. Check hose and fittings for gas leaks.

⚠ **WARNING! DO NOT USE A NAKED FLAME!** To check for leaks, we recommend the use of a foamy soap.

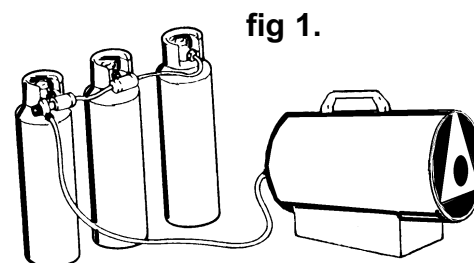


fig 1.

4. IGNITION

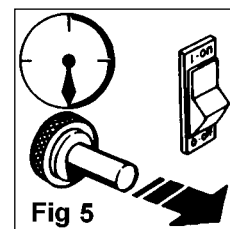
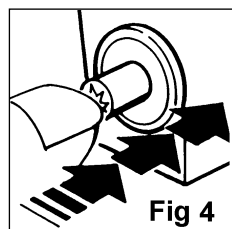
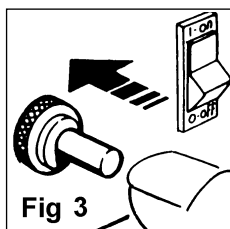
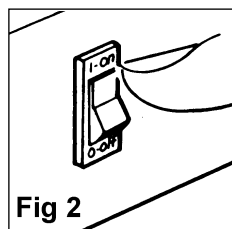
IMPORTANT: To ensure continuous ventilation to the heater area, a ventilation opening must run to the outside of the premises where heater is to operate. The opening must be 25cm² for every kW, and must be set at an equal distance from upper and lower parts of heater operating area.

4.1 Switch Heater On.

- 4.1.1. Turn the fan switch to position "I" and check that the fan starts running (fig 2).
- 4.1.2. Push the gas valve button in and hold, then press repeatedly on the ignition lighter switch until the flame ignites (fig 3).
- 4.1.3. As flame lights, and the heater starts, keep the gas valve button pushed in for about 10 seconds (fig 4).
- 4.1.4. If the heater stops when the gas valve button is released, leave the fan on but wait for one minute and repeat at the starting operation steps 4.1 to 4.3. after which hold the gas valve in for longer than 10 seconds before releasing (fig 5).
- 4.1.5. Desired heat output is controlled by regulating the gas flow pressure. Turn regulator anticlockwise to reduce the pressure and heat, and clockwise to increase the pressure and heat.

4.2. Switch Heater Off.

Shut off the gas cylinder tap. Allow the fan to continue running until the flame shuts down, then turn the fan switch to position "O".



⚠ **WARNING!** if the flame shuts down during operation, before repeating the ignition operations make sure the fan is not jammed, and the air inlet and outlets are completely free of obstructions. If the flame shuts off during normal operation due to overheating the cause of the problem must be determined and corrected before repeating the ignition procedure.

5. COOL AIR FAN

The Propane Space Heater may also be used as a cool air fan, to do so:

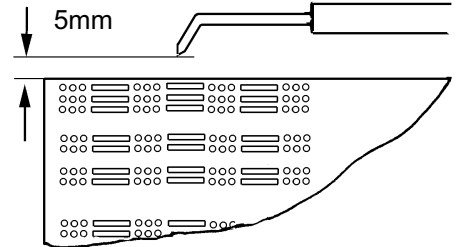
- 5.1. Remove the gas supply hose and plug the heater into the mains electrical power supply.
- 5.2. Switch fan position "I" on. The unit will now blow out cool air only.

6. MAINTENANCE

WARNING! Before commencing service or maintenance disconnect the unit from the electrical power, and the gas supply. Use recommended parts only. Non recommended parts may be dangerous and will invalidate the warranty.

- 6.1. Check the gas supply hose condition, and change if necessary.
 - 6.2. Check the starting electrode to ensure the gap is 5mm (fig 6).
 - 6.3. Check the ignition unit, safety thermostat, and thermocouple condition and ensure they are clean.
 - 6.4. Clean inside the heater unit and the fan blade with compressed air.
- Caution:** Wear safety goggles to perform this operation.

fig.6.



7. TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
The fan motor does not work	<ol style="list-style-type: none"> 1. There is no electrical supply 2. The motor has locked. 	<ol style="list-style-type: none"> 1. Check mains power supply, wire, plug, and fuse. 2. Unlock the motor with appropriate tool.
The ignitor does not spark	<ol style="list-style-type: none"> 1. Electrode has the wrong gap. 2. Faulty connection 	<ol style="list-style-type: none"> 1. Check and reset the electrode to the correct position (fig 6). 2. Check and connect correctly the ignitor and the electrode.
No gas flow to the burner	<ol style="list-style-type: none"> 1. The cylinder gas tap is closed 2. The cylinder is empty 3. Gas leaks from the supply. 	<ol style="list-style-type: none"> 1. Open the gas tap 2. Replace the cylinder 3. Remove and clean the nozzle, check leaks by using a foamy soap only. Stop the leak accordingly. (DO NOT USE FLAME to find leak).
The burner starts, but it stops as the gas valve is released.	<ol style="list-style-type: none"> 1. The thermocouple is not warm enough 2. The safety override has activated because the fan does not work. 	<ol style="list-style-type: none"> 1. Repeat the starting operation keeping the button pushed for a longer time 2. See above "Motor does not work"
The heater stops during operation	<ol style="list-style-type: none"> 1. Excessive gas supply 2. Insufficient gas supply line. 3. Insufficient air flow due to formation on the cylinder. 	<ol style="list-style-type: none"> 1. Check the pressure reducer, and replace if necessary. 2. Check that the motor is working correctly. 3. Check and if necessary use a larger gas cylinder, or multiple cylinders connected parallel.

Declaration of Conformity

We, the sole importer into the UK, declare that the products listed here are in conformity with the following EEC standards and directives

Propane Heaters Models:
LP35, LP60, LP80, LP100, LP125, LP200, & LP300.
 73.23/EEC Low Voltage Directive.
 89/336/EEC EMC Directive.
 Gas Appliances (Safety) Regulations 1992



The construction files for these products are held by the Manufacturer and may be inspected by a national authority upon request to Jack Sealey Ltd

Signed by Mark Sweetman

6th June 2000

For Jack Sealey Ltd.
 Sole importer into the UK
 of Sealey Power Products

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 equipment

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.

INFORMATION: Call us for a copy of our latest catalogue and promotions on 01284 757525. Leave your full name and address including your postcode.



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