

INSTRUCTIONS FOR: PROPANE HEATERS

Models: **LP35, LP45, LP60, LP80X, LP100, LP145, 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 AND/OR PERSONAL INJURY, AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

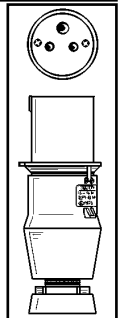
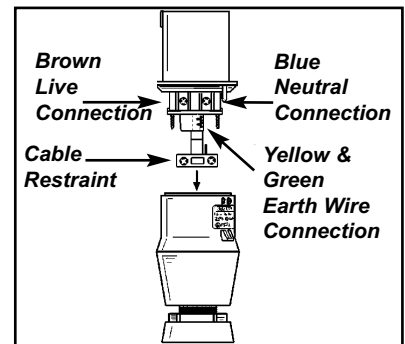
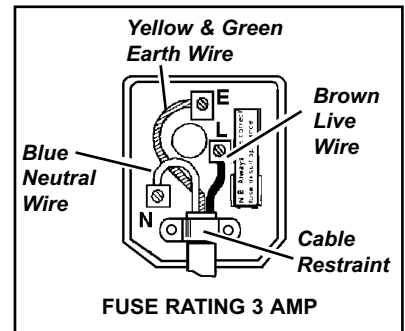
1. SAFETY INSTRUCTIONS

1.1. PLUG & MAINS POWER SUPPLY **WARNING! It is the responsibility of the owner and the operator to read, understand and comply with the following:**

You must check all electrical products, before use, to ensure that they are safe. You must inspect power cables, plugs, sockets and any other connectors for wear or damage. You must ensure that the risk of electric shock is minimised by the installation of appropriate safety devices. A Residual Current Circuit Breaker (RCCB) should be incorporated in the main distribution board. We also recommend that a Residual Current Device (RCD) is used. It is particularly important to use an RCD with portable products that are plugged into a supply which is not protected by an RCCB. If in any doubt consult a qualified 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.

NOTE: 110 volt heaters are usually operated by connecting to a transformer or a generator. Check to ensure all supply equipment is compatible with the rating of the cleaner.

- 1.1.1. The **Electricity at Work Act 1989** requires all portable electrical appliances, if used on business premises, to be tested by a qualified electrician, using a Portable Appliance Tester (PAT), at least once a year.
- 1.1.2. The **Health & Safety at Work Act 1974** makes owners of electrical appliances responsible for the safe condition of those appliances and the safety of the appliance operators. **If in any doubt about electrical safety, contact a qualified electrician.**
- 1.1.3. Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply. See 1.1.1. and 1.1.2. and use a Portable Appliance Tester.
- 1.1.4. Ensure that cables are always protected against short circuit and overload.
- 1.1.5. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that none is loose.
- 1.1.6. **Important:** Ensure that the voltage marked on the appliance matches the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating listed in Fig.1.
- 1.1.7. **Important:** For use from a 110 volt supply - ensure that the 110 volt transformer or generator is adequately rated.
- 1.1.8. **DO NOT** pull or carry the appliance by the power cable.
- 1.1.9. **DO NOT** pull the plug from the socket by the cable.
- 1.1.10. **DO NOT** use worn or damaged cables, plugs or connectors. Immediately have any faulty item repaired or replaced by a qualified electrician. When an ASTA/BS approved UK 3 pin 13 amp plug or 110 volt plug is damaged, cut the cable just above the plug and **dispose of the plug safely.** Fit a new plug according to the following instructions (UK only - see diagrams opposite).
 - 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'.**
 - d) **After wiring, check that there are no bare wires, that all wires have been correctly connected, that the cable outer insulation extends beyond the cable restraint and that the restraint is tight.**
- 1.1.11. If an extension reel is used it should be fully unwound before connection. A reel with an RCD fitted is preferred since any appliance plugged into it will be protected. The cable core section is important and should be at least 1.5mm², but to be absolutely sure that the capacity of the reel is suitable for this product and for others which may be used in the other output sockets, we recommend the use of 2.5mm² section cable.



1.2 GENERAL SAFETY

- WARNING!** Disconnect heater from mains supply before servicing or performing maintenance. Replace or repair damaged parts. *Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*
- ✓ Store gas cylinders in accordance with regulations applicable to such appliances.
- ✓ Ensure nothing is standing or passing in front of the heater. *Mandatory minimum distance from the heater is 1m.*
- ✓ Use the supplied pressure regulator only.
- ✓ 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.*
- ✓ Ensure the heater is correctly turned off when not in use.
- ✗ **DO NOT** use the heater if damaged. *Take immediate action to repair or replace damaged parts. Use authorised service agent only.*
- ✗ **DO NOT** allow untrained persons to ignite the heater.
- ✗ **DO NOT** operate the heater without its cover.
- ✗ **DO NOT** exceed the 100W/m³ limit considering the volume of the empty operating area.
- ✗ **DO NOT** use a naked flame to try and ignite the heater.
- ✗ **DO NOT** use the heater near flammable material, liquids, solids, or gases.
- ✗ **DO NOT** obstruct the air inlet and outlet sections of the heater.
- ✗ **DO NOT** point the heater at the gas cylinders.
- ✓ 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	LP45	LP60	LP80X
Output (Propane):	10kW	12kW	15kW	13.4 - 25.4kW
Output (EN1596):	10.8kW	14.6kW	16.2kW	14.8 - 27.5kW
Output (Propane):	35,000Btu/h	43,018Btu/h	52,000Btu/h	45,853 - 86,721Btu/h
Output (EN1596):	36,880Btu/h	49,487Btu/h	55,320Btu/h	50,667 - 93,822Btu/h
Air Flow:	300m ³ /h	350m ³ /h	300m ³ /h	560m ³ /h
Fuel Consumption:	0.8kg/h	0.8kg/h	1.17kg/h	1.0 - 1.8kg/h
Electrical Input:	230V - 0.3A	230V - 0.5A	230V - 0.3A	230V - 1.5A
Length:	390mm	450mm	490mm	500mm
Width:	180mm	220mm	220mm	280mm
Height:	270mm	355mm	285mm	410mm
Fuel:	Propane	Propane	Propane	Propane
Heated Volume:	8,750ft ³	11,000ft ³	15,000ft ³	20,000ft ³

Model:	LP100	LP145	LP200	LP300
Output (Propane):	12.5 - 31.2kW	26.6 - 43.5kW	34.9 - 58.5kW	50.1 - 82.2kW
Output (EN1596):	15 - 39kW	33.24 - 54.53kW	43.41 - 77kW	68.4 - 102.2kW
Output (Propane):	42,000 - 106,400Btu/h	90,000 - 148,500Btu/h	119,000 - 200,000Btu/h	171,000 - 280,500Btu/h
Output (EN1596):	51,000 - 131,793Btu/h	113,000 - 186,000Btu/h	148,000 - 263,000Btu/h	234,000 - 348,900Btu/h
Air Flow:	750m ³ /h	850m ³ /h	1800m ³ /h	2450m ³ /h
Fuel Consumption:	1.0 - 2.46kg/h	2.09 - 3.41kg/h	2.8 - 4.64kg/h	3.9 - 6.5kg/h
Electrical Input:	110/230V - 1.5/0.72A	110/230V - 1.5/0.72A	110/230V - 1.3/0.65A	110/230V - 1.3/0.65A
Length:	530mm	690mm	780mm	925mm
Width:	280mm	280mm	370mm	370mm
Height:	400mm	400mm	520mm	520mm
Fuel:	Propane	Propane	Propane	Propane
Heated Volume:	26,000ft ³	37,000ft ³	50,000ft ³	70,000ft ³

3. INSTALLATION

Note: 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. Setting heater supply voltage. (LP100, LP145, LP200 & LP300 only)

- 3.1.1. Locate the supply voltage selector panel (fig 2), on the side of the base.
- 3.1.2. If the correct supply voltage is **NOT** shown, remove the two securing screws.
- 3.1.3. Remove the cover panel and select the required switch position as shown in fig.3.

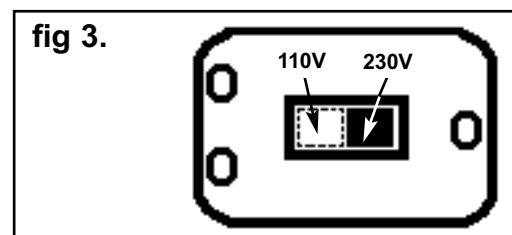
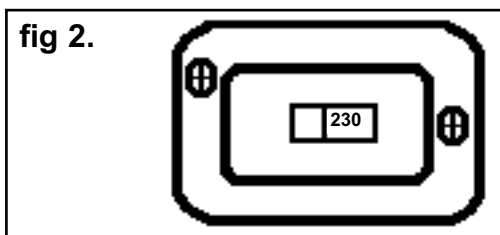
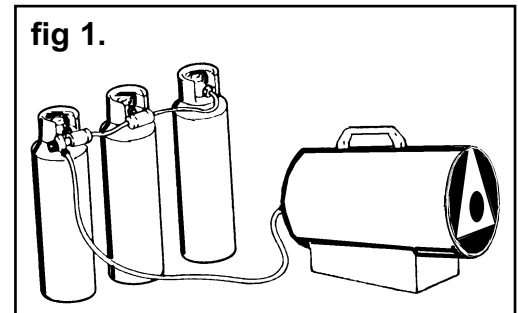
Note: The moulded design of the cover panel ensures that the selected voltage is visible.

- 3.1.4. Refit the cover panel using the two securing screws.

3.2. Connections

- 3.2.1. Check heater and gas cylinders to ensure they are in good order and condition. If not stop and contact your supplier immediately.
- 3.2.2. Site the heater and gas cylinders in the operational area.
- 3.2.3. Connect heater to an electric socket ensuring that the machine is correctly earthed. See safety instructions.
- 3.2.4. Connect the gas supply hose to the pressure regulator and connect the regulator to the gas cylinder.
- 3.2.5. 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.



4. IGNITION

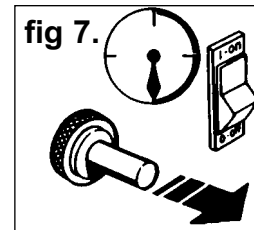
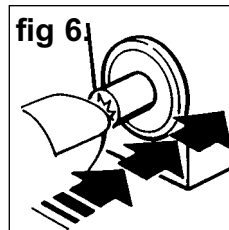
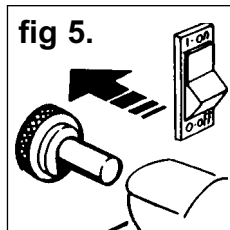
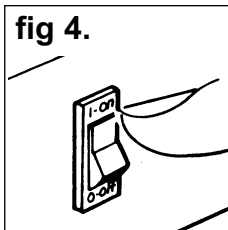
IMPORTANT: To ensure continuous ventilation to the heater area, a ventilation opening must run to the outside of the premises where heater is to operate. The opening must be 25cm² for every kW, and must be set at an equal distance from upper and lower parts of heater operating area.

4.1. Switch Heater On.

- 4.1.1. Turn the fan switch to position "I" and check that the fan starts running (fig 4).
- 4.1.2. Push the gas valve button in and hold, then press repeatedly on the ignition lighter switch until the flame ignites (fig 5).
- 4.1.3. As flame lights, and the heater starts, keep the gas valve button pushed in for about 10 seconds (fig 6).
- 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 7).
- 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.

- 4.2.1. 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:

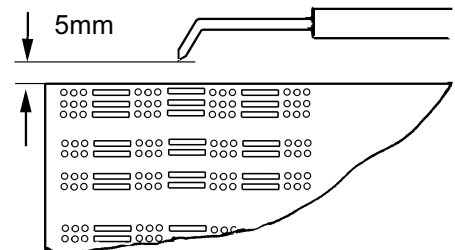
- 5.1. Remove the gas supply hose and plug the heater into the mains electrical power supply.
- 5.2. Switch fan position "I" on. The unit will now blow out cool air only.

6. MAINTENANCE

WARNING! Before commencing service or maintenance disconnect the unit from the electrical power, and the gas supply. Use authorised parts only. Unauthorised 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 8).
- 6.3. Check the ignition unit, safety thermostat, and thermocouple condition and ensure they are clean.
- ▲ **Caution:** Wear safety goggles to perform this operation.
- 6.4. Clean inside the heater unit and the fan blade with compressed air.

fig.8.



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 7). 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.

SEALEY

POWER PRODUCTS

Sealey Group,
 Bury St. Edmunds,
 Suffolk.



01284 757500



01284 703534

E-mail: sales@sealey.co.uk