



INFRARED SPACE HEATER KEROSENE/ DIESEL 136,500BTU/HR SPACE WARMER WITH WHEELS®

MODEL NO: **IR37.V7**

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



Wear protective
gloves



Warning
Electricity



Warning:
Hot surfaces



DO NOT cover



Keep in dry area
protect from rain



Use in well
ventilated areas

1. SAFETY

- ☐ **WARNING!** This product is only suitable for well insulated spaces or occasional use.

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.
 - 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.
 - Important:** 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.
 - ✗ **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 is replaced immediately by a Sealey qualified electrician.
 - ✓ If the cable or plug is damaged during use, switch off the electricity supply and remove from use. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Ensure that repairs are carried out by a qualified electrician.**

1.2. GENERAL SAFETY

- ✓ This piece of equipment is solely designed for use by a responsible adult/professional user who has received adequate training on its operation & safety risks.
- ☐ **WARNING!** A qualified installer is required to install, adjust and, where necessary, convert the appliance for use with other fuel types.
- ▲ **DANGER!** Risk of carbon monoxide poisoning. Failure to provide proper ventilation could result in serious illness or death.
- ✓ Consult the appliance manufacturer before replacing parts other than those specified or recommended in the servicing instructions.
- ✓ When not in use for an extended period, store in a safe, dry area, out of reach of children.
- ✓ Children shall **NOT** play with the appliance.
- ✓ Cleaning and user maintenance on the appliance shall not be made by children without supervision.
- ☐ **WARNING!** The appliance shall be disconnected from its power source during service and when replacing parts.
- ✓ Check that the heater is in sound condition and good working order. Take immediate action to repair or replace damaged parts.
- ✓ Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- ✓ Only use diesel or kerosene to fuel this heater, in accordance with instructions in this manual and heater's Specification plate.
- ✓ Locate heater on a level and stable surface.

1.2.1. VENTILATION REQUIREMENTS OPENING SIZE

- ✓ To ensure the heater operates safely and efficiently, the ventilation opening size must meet the air intake and exhaust demands of the equipment, avoiding incomplete combustion or potential safety hazards caused by insufficient ventilation.
- ✓ In line with general safety standards, the net area of air inlets and outlets for this high-power diesel heater should be no less than 1.2 times the area of the equipment's air intake/exhaust grilles (the exhaust outlet diameter is 580mm, so opening size would be larger than 696mm).
- ✓ A clear air circulation path must be maintained at all times.
- ✓ Specific guidelines are listed below:
 - ✓ Air inlet: Keep it away from combustible materials, at least 30cm above the ground, and unobstructed within 1.5 meters in front to ensure cold air flows smoothly into the combustion chamber.
 - ✓ Confined space installation: A mechanical ventilation system is mandatory, with an air exchange rate of no less than 1.5 times the equipment's air volume (approx. 900m³/h), to prevent carbon monoxide accumulation.
 - ✓ Before refuelling, shut down the heater and wait for it to cool down.
 - ✓ Consult the appliance manufacturer before replacing parts other than those specified or recommended in the servicing instructions.
- ☐ **WARNING! DO NOT** use the heater near flammable material, liquids, solids, gases or compressed gas cylinders etc.
- ✗ **DO NOT** stand or place any object less than 2m from the heater outlet and keep the heater a minimum of 2m from any walls or objects.
- ✗ **DO NOT** use the heater in closed rooms, living areas, basements or below ground level.

- ✖ **DO NOT** allow untrained persons to operate the heater and **DO NOT** operate the heater without the safety guard.
- ✖ **DO NOT** move or handle the heater when hot, without wearing protective gloves. Never move the heater whilst it is operating.
- ✖ **DO NOT** obstruct the airflow (back of the device) and air intake (front) of the heater.
- ✖ **DO NOT** use the heater with a programmer, timer or any other device that switches the heater on automatically.
- ✖ **DO NOT** leave the heater unattended when in use. Switch the heater off and unplug from the mains before leaving work area.
- ✖ **DO NOT** fill the fuel tank whilst the heater is running or still hot. **DO NOT** over-fill the fuel container. Wipe up any spilt fuel immediately.
- ✖ **DO NOT** use duct work in front or at the rear of the heater.
- ✖ **DO NOT** allow children or animals near the heater when in use, or whilst still hot.
- ☐ **WARNING! RISK OF ELECTRIC SHOCK. DO NOT** expose the heater to water spray, rain, dripping water or wind.
- ✖ **DO NOT** operate the heater when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✖ **DO NOT** touch the heater outlet or cone when in use, or for a period of time after it's switched off, as these are VERY hot and will take time to cool down.
- ✖ **DO NOT** switch the heater off by disconnecting it from the mains. ALWAYS set the switch on the burner to the 'OFF' position and allow the cooling cycle to finish, before disconnecting from the mains supply.
- ✖ **DO NOT** use an external fuel tank. Only use the tank that is fitted to the heater, and only fill it when the heater has cooled down.
- ✖ **DO NOT** use "old" or "second-hand" diesel, kerosene, or anything other than clean, fresh, new diesel, kerosene.
- ✖ **DO NOT** use low-quality diesel. Always use high-quality and clean fuel that has been filtered before use. Using any other type of fuel will invalidate the warranty and could cause an explosion, a fire or the unit to malfunction.
- ✓ Ensure that the heater is correctly turned off.
- ✓ It is dangerous to put your hands or any other thing into the grill, or to apply a considerable shock or force to the heater, as there will be a risk of fire or electric shock.
- ✖ **DO NOT** place any electrical item or heavy material on top of heater. (It may cause malfunctioning or electrical shock, or if the heavy object falls onto the user can cause injuries).
- ✖ **DO NOT** move or transport heater during operation due to the risk of fire or causing burns. Before moving the heater turn the heater OFF, disconnect from mains supply and allow to cool.
- ☐ **WARNING! DO NOT** use this heater for another purpose other than heating.
- ✖ **DO NOT** use this heater for drying clothes.
- ✖ **DO NOT** use this heater for keeping pets, animals, or plants warm.
- ✖ **DO NOT** place any inflammable vinyl or plastic goods on top of heater, or cover the heater grill with clothes.
- ✖ **DO NOT** touch any of the heated material such as the grill, burner, etc, while the heater is in operation or just after extinguishing, as the grill and burner are still hot. **DO NOT** touch any of those parts, especially pay attention to keep children away from the hot materials, it may cause serious harm.
- ✖ **DO NOT** use this heater in areas higher than 1,500m altitude from the sea level. The heater needs more ventilation in areas of 700-1,500m altitude from sea level. This is due to the lack of oxygen, there is an increased risk of carbon monoxide poisoning.
- ✖ **DO NOT** use water or other chemicals to clean the heater. (It may cause a fire or an electric shock).
- ✖ **DO NOT** use this heater on unstable surfaces.
- ✖ **DO NOT** use this heater on an inclined surface, the heater may fall over, which can cause a fire or malfunction.
- ✓ Place this instruction manual noticeably near the heater so that, if necessary, the user can find it easily.

2. INTRODUCTION

Versatile infrared multi-fuel heater designed to run on kerosene or diesel. Clean burning unit suitable for well-ventilated applications. 50L Tank allows approximately 14hrs running time, making this unit extremely economical. Safety features include solenoid valve, automatic overheat safety shut-off and quiet operation. Supplied with its own trolley for easy manoeuvrability.

3. SPECIFICATION

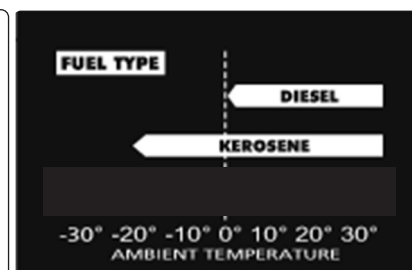
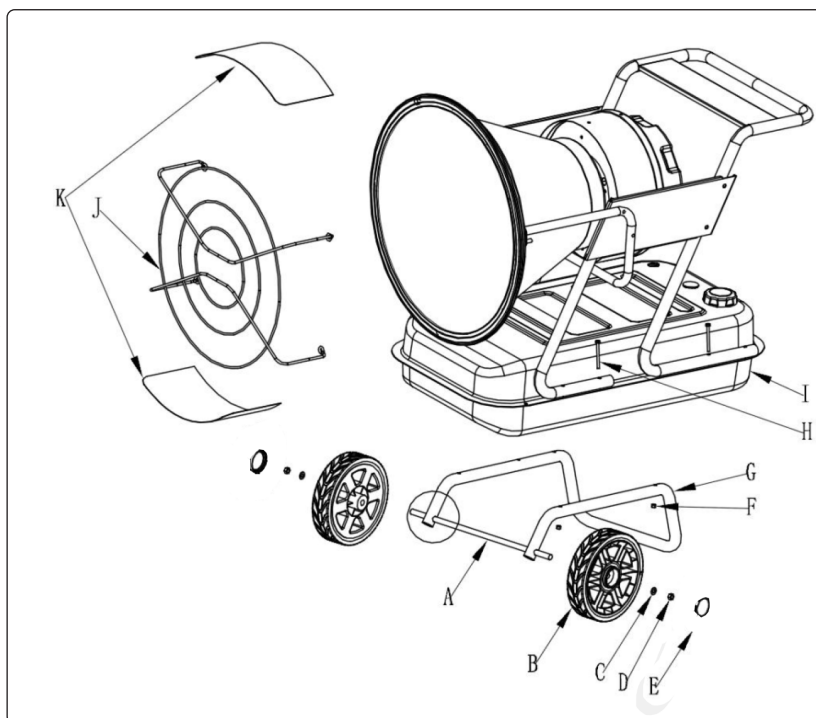
Model No:	IR37.V7	Model No:	IR37.V7
Airflow:	m³/h	Dimensions LxWxH:	950x580x870mm
Fuel Tank:	50L		
Fuel:	Kerosene/Diesel		
Fuse Rating:	13A		
Heated Area:	320-400m²		
Motor Power:	70W		
Nett Weight:	29.6kg		
Output:	136,500Btu/hr(40kW)		
Plug Type:	3-Pin		
Power Supply Cable Length:	1.5m		
Running Time per Filling (Maximum):	13hrs		
Supply:	230V 50Hz		
Transport Wheels:	Yes		
IP Rating	IPX4		
Fuel Consumption:	3.2kg/h		
Permissible Ambient Temperature Range	-20°C to 45°C		
Heat Input Value:	75W		

4. FEATURES



5. CONTENTS

- A: Axle
- B: Wheel
- C: M8 washer
- D: M8 lock nut
- E: Wheel nut cover
- F: M5 nut
- G: Lower frame
- H: M5 screw
- I: Fuel tank
- J: Safety guard
- K: Radiant visor



Although our heaters operate with diesel fuel, when the temperatures are below 0°C, diesel additives are required to maintain the diesel's viscosity. Typically diesel can cloud in freezing conditions and will start to gel. You will need additives for your fuel in these conditions. Kerosene does not start to gel until the ambient temperature is around (-40°C).

6. ASSEMBLY

- 6.1. Insert the axle shaft A into the hole corresponding to the lower frame G.
- 6.2. Place wheel B onto axle A, fit washer C, tighten the M8 lock nut D, fit wheel nut covers E.
- 6.3. Remove the screws H and nuts F x4 on base of main heater assembly.
- 6.4. Place the main heater assembly on the lower frame G.
- 6.5. Insert the screw H into the mounting hole, and tighten the lock nut F.
- 6.6. Insert the front safety grille J and reflecting plate K into the corresponding holes in the front of the heater, and tighten the lock nuts.

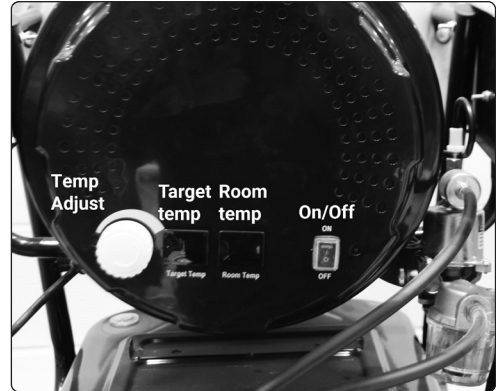
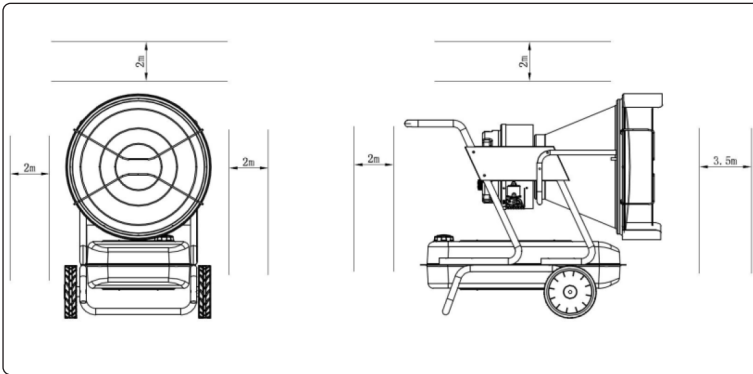
7. PREPARATION

- 7.1. **REFUELLING:**
 - ❑ **WARNING! Disconnect from mains supply.**
 - 7.1.1. Never use highly volatile oils such as gasoline.
 - 7.1.2. Refuelling must be carried out after confirming that the operation of the heater has stopped, the flame is extinguished, cooled down and in a ventilated place. When the flame is just turned off, the combustion tube, shell, front grille, etc. are hot.
 - ✖ **DO NOT** touch burn risk.
- 7.1.3. Use the correct type of diesel, please do not use deteriorated or impure diesel.
- 7.1.4. Confirm whether the fuel filler filter is blocked, if it is blocked, remove the blockage before use.
- 7.1.5. Power switch is in the "O" position.
- 7.1.6. Put the machine in a stable place, unscrew the fuel tank cap.

- 7.1.7. Check whether there is water and foreign matter in the fuel tank. If there is water and foreign matter, clean the fuel tank.
- 7.1.8. Add diesel fuel into the fuel tank, **DO NOT** overfill, tighten the fuel tank cap clockwise after refuelling.

8. OPERATION

8.1. SAFE DISTANCE FROM OBJECTS



- 8.2. Check fuel level.

8.3. VENTILATION

- 8.3.1. Use heater only in well ventilated areas. Read and follow Ventilation requirements in the Safety section 1.2.1.

8.4. IGNITION

- 8.4.1. Insert the plug into mains, press the power switch to the On position, adjust the knob to make the set temperature greater than the value shown on the room/ambient temperature display.
- 8.4.2. The igniter starts to work, the motor rotates, and the machine ignites.
- 8.4.3. If there is no combustion after starting press the power switch to the Off position to reset. Press the power switch to the on position again, and adjust the knob to make the set temperature greater than the ambient temperature.
- 8.4.4. If you can't start normally after repeating this operation three times, contact Sealey service.

SHUT DOWN

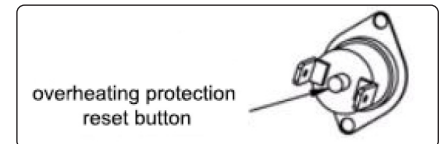
- 8.4.5. Press switch to the Off position, the machine will stop burning, and the motor will stop automatically after a delay of 120 seconds.
- 8.4.6. Remove from mains supply.

8.5. SAFETY DEVICES

- 8.5.1. **FLAME-OUT PROTECTION:** When there is no flame, the photosensitive resistance of the flame detector becomes infinite, cuts off the power supply and stops the heater working.
- 8.5.2. **DELAY PROTECTION:** Press the switch "O" to stop the combustion, and the fan works for 120 seconds to cool the product.
- 8.5.3. **OVERHEATING PROTECTION:** When the net cover is covered by debris or the internal temperature is too high, its internal overheating protector cuts off the circuit, so that the product stops working. It will reset once it has cooled down.

8.6. OPERATION IN EVENT OF ACCIDENT OR BREAKDOWN

- 8.6.1. If heater begins to operate abnormally switch off and disconnect from mains supply.
- 8.6.2. Investigate fault according to sections 9 and 11 below. If no remedy is found contact Sealey service.



overheating protection
reset button

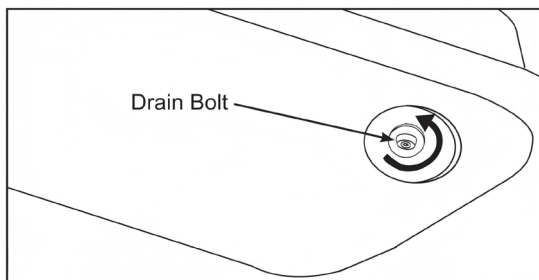
9. MAINTENANCE

- ❑ **WARNING!** Disconnect from mains supply and empty fuel tank before performing Maintenance. Service to be performed by trained personnel **ONLY**.

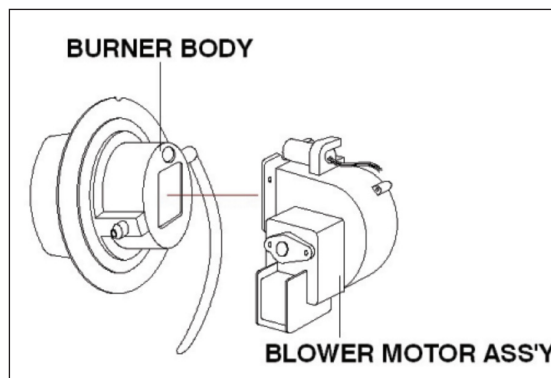
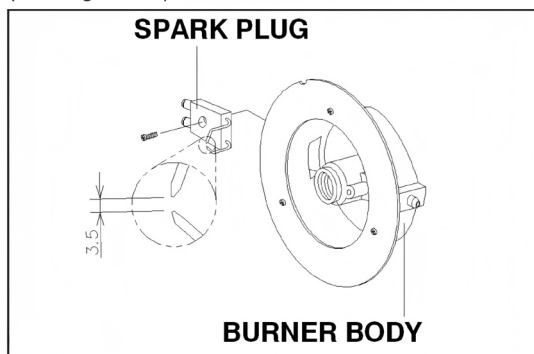
9.1. DAILY

Check fuel tank for foreign matter or water. Clean out tank as necessary.

9.2. FUEL / FUEL TANK



- 9.2.1. Flush tank every 200 hours of operation or as needed. **DO NOT** flush with water, use fresh diesel or kerosene only.
- 9.3. **SERVICING REQUIREMENTS AFTER 360 HOURS OF USE:**
- 9.3.1. The recommendation of servicing after 360 operating hours is based on the fact that key components reach their peak contamination level at this stage (e.g., filters, nozzles, and photocells).
- 9.3.2. In addition, inspection and maintenance are also required before restarting the heater after a long period of inactivity to ensure normal operation.
- 9.4. The components to be checked and maintained are as follows:
1. Filters and nozzles (clean or replace if necessary)
 2. Photocell (clean and verify sensitivity)
 3. Rubber parts (inspect for aging: fuel pipes and fuel tank caps)
- 9.5. **SPARK PLUG:** Clean and re-gap every 600 hours of operation or replace as needed. After removing the Spark Plug, clean the terminals with a wire brush.



Re-gap the terminals to 0.140" (3.5 mm) (see above).

9.6. **FAN BLADES**

9.6.1. The fan blades should be cleaned at least once per heating season, depending on conditions. Remove all accumulated dust and dirt with a burst of compressed air.

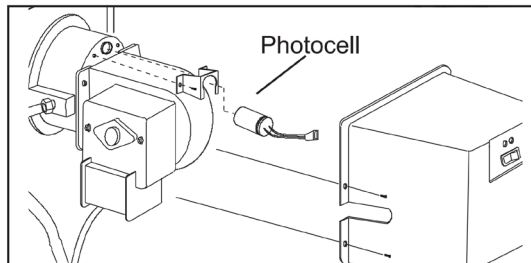
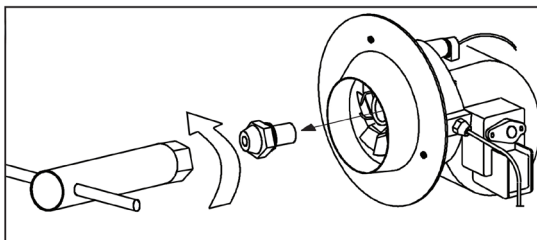
9.7. **PRESSURE ADJUSTMENTS:**

9.7.1. Proper pressure is dependent on the fuel type the unit will be running. When smoking or non-ignition occurs, remove the lower panel. Locate the crosshead screw with a nut on the fuel pump to the left of the fuel line. There is a small "P" next to the pressure screw. The ideal pressure is 120 psi (8.43 kg/cm²).

9.7.2. If you are experiencing smoking or fuel dripping from the unit, turn the screw clockwise 1/8 to 1/4 of a turn to increase the fuel pressure until the unit is operating properly.

9.7.3. If you are experiencing extended flames from the front of the unit, turn the screw 1/8 to 1/4 of a turn counterclockwise to reduce the air pressure until the unit is operating properly.

9.8. **NOZZLES:**



9.8.1. Nozzles should be cleaned or replaced at least once per heating season. Contaminated fuel could make this necessary immediately. To clean dirt from nozzle, blow compressed air through nozzle front. It may be necessary to soak nozzle in clean Kerosene or diesel to help loosen any particles.

9.9. **PHOTOCELL See above right:**

9.9.1. The photocell should be cleaned at least once per heating season or more depending on conditions. Use a cotton swab and water or alcohol to clean the lens of the photocell.

9.9.2. Be certain to reinstall the photocell in proper position see above.

9.10. **FILTERS**

9.10.1. The fuel filter, Parts Information no. 33 refers, should be cleaned at least twice per heating season by rinsing it in clean Kerosene or diesel. Contaminated or old fuel could make cleaning necessary immediately, (see above).

9.11. **TRANSPORT SAFETY:**

9.11.1. Empty the fuel tank. Transport in original packaging. Tie heater down when being transported in a vehicle.

9.12. **LONG TERM STORAGE**

9.12.1. Drain fuel through the drain bolt in bottom of tank (unscrew counterclockwise.)

9.12.2. Using a small amount of diesel, rinse and swirl the fuel inside the fuel tank. Empty the tank completely. Replace drain bolt.

NOTE: never mix water with fuel, it will cause rust inside the tank.

IMPORTANT: Never store leftover Kerosene between seasons, using old fuel can damage heater. Store Heater in a dry, well ventilated area. Be sure that the storage area is free of dust and corrosive vapors. Repack the heater in the original packaging and keep user's manual in an easily accessible place.

10. OPERATIONAL FAILURE ANALYSIS

Symptoms	Reason
When first used, it smells, smokes and sparks	It is a combustion mixed with air and dust at first, and it returns to normal after a while, which is a normal phenomenon.
When used for the first time or when the fuel is exhausted, refueling and ignition, different sound, different smell, white smoke	The pipe is mixed with air, ignited, caught on fire, and the symptoms will disappear automatically after the air in the pipe is removed.
Ignition or extinguishing sometimes from the body in a different sound	It is caused by the thermal expansion and cold contraction of the metal parts of the heater, not abnormal.
When it was first ignited, the flame came out of the mask and there were sparks	It is due to the uneven mixing and discontinuous combustion of air and oil caused by the undrained oil and air in the nozzle of the heater. The spark is caused by carbon dust in the combustion tank after the last use, not abnormal.

10.1. ERROR CODES

Error Code	Cause	Solution
E1	Lack of oil in the tank	Fuel tank refueling
	Electric eye trouble	Remove the dust on the electric eye or replace it
	Insufficient burning	Replace fuel or clean fuel filter
	The ignition pin is not firing	Clean the ignition needle or reconnect the wire or replace the ignition transformer
E2	Temperature sensor fault	Check whether the probe wire is disconnected or the probe wire interface is loose

11. END OF LIFE

At the end of its working life heater must be dismantled and recycled according to regulations in force.

12. TROUBLESHOOTING

Symptoms	Will not work	Will not fire	Burn out	Oil spill	Smoke and dust	Burn a lot of flame	Processing method
No electricity	•						Verify that the power supply is powered on.
Power outages	•						After the power cut reset, again operation
Low voltage					•	•	Exclude the cause of voltage drop
The frequencies don't match					•	•	Use indicated frequency
Pressure in fuel tank			•				Clean the air hole of the fuel filler cap
Filter clogged			•		•	•	Check the filter head and make the exchange
Fuel used up			•				To refuel
Water in the tank		•			•	•	Clean the tank
Poor fuel					•	•	Clean the tank and replace with new diesel fuel
The oil discharge screw is not tightened				•			Tighten the oil discharge screw
Others	•	•	•	•	•	•	Contact the sales store or our customer service department



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.



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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Jack Sealey (EU) Ltd t/a Sealey Group, Farney Street, Carrickmacross, Co. Monaghan, A81 PK68 Ireland
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Product Information Sheet. Local Space Heaters, Gas / Liquid Fuel.

SUPPLIER_NAME_OR_TRADEMARK Sealey EU Ltd.
 DELEGATED_ACT 2024/1103/EU
 MODEL_IDENTIFIER IR37

Space Warmer® Paraffin/Kerosene/Diesel Heater 136,000Btu/hr

ADDRESS Farney Street, Carrickmacross, Co. Monaghan, A81 PK68 Ireland
 PHONE_NUMBER 01284 757 500
 EMAIL_ADDRESS TechnicalCompliance@sealey.co.uk

Indirect heating functionality	No	Direct heat output (kW)	40.0
Fuel type	Liquid	Indirect heat output (kW)	NA
Specify	Diesel	Space Heating Emissions mg/kWh	39.3

Heat output		Useful efficiency	
Nominal heat output kW	40.0	at nominal heat output	100.0
Minimum heat output (indicative) kW	NA	at minimum heat output	NA
		Seasonal space heating efficiency	85.9

Auxiliary electricity consumption		Type of heat output/room temperature control	
At nominal heat output kW	0.064	Single stage heat output, no room temperature control	No
At minimum heat output kW	NA	Two or more manual stages, no room temperature control	No
In standby mode kW	0.000	With mechanical thermostat room temperature control	No
Permanent pilot flame power requirement		With electronic room temperature control	Yes
		With electronic room temperature control plus day timer	No
		With electronic room temperature control plus week timer	No
		Other control options	
		Room temperature control, with presence detection	No
		Room temperature control, with open window detection	No
		With distance control option	No
		With adaptive start control	No
		With working time limitation	No
		With black bulb sensor	No
		With Control accuracy	No
Pilot flame power requirement (if applicable) kW	NA		

Suppliers website <https://www.sealey.co.uk/>