



INFRARED KEROSENE/DIESEL HEATER

51,000BTU/HR[®]

MODEL NO: IR115.V2

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



DANGER
Use in well ventilated areas

1. SAFETY

- WARNING!** Trained operators only. Read the manual before use.

NOTE: 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.
 - ✓ Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply.
 - ✗ **DO NOT** use worn or damaged cables, plugs or connectors.
 - ✓ Ensure that any faulty item is repaired or replaced immediately by a Sealey qualified technician.
 - ✓ 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.
 - ✓ Sealey recommend that an RCD (Residual Current Device) is used with all electrical products.
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.
 - ✓ The removal of the plug has to be such that an operator can check from any of the points to which he has access that the plug remains removed.

1.2. GENERAL SAFETY

- ✓ Check the heater for possible shipping damage. If any damage is found immediately contact Sealey.
 - ✓ Children shall **NOT** play with the appliance.
 - ✓ Cleaning and user maintenance on the appliance shall not be made by children without supervision.
 - ✓ The appliance shall be disconnected from its power source during service and when replacing parts.
 - WARNING!** The appliance contains UV emitter. **DO NOT** stare at the light source.
 - WARNING!** Failure to comply with the precautions and instructions provided with this heater, can result in death, serious bodily injury and property loss or damage from hazards of fire, explosion, burn, asphyxiation, carbon monoxide poisoning, and/or electrical shock. Only persons who can understand and follow the instructions should use or service this heater. If you need assistance or heater information such as an instruction manual, labels, etc, contact the manufacturer.
 - WARNING!** Not for use in residential living areas or in non-adequately ventilated enclosed spaces.
 - WARNING!** Carbon monoxide can kill you. Using a portable heater inside a tent, RV, camper, vehicle, shelter or other enclosed areas can produce deadly carbon monoxide.
 - WARNING! DO NOT** use petrol, naphtha or volatile fuels.
 - ✗ STOP heater before adding fuel. Always refuel outdoors away from open flames.
 - ✗ **DO NOT** use an external fuel source.
 - ✗ **DO NOT** use heater where flammable liquids or vapours may be present.
 - ✗ **DO NOT** start when chamber is hot.
 - ✗ **DO NOT** start heater when excess fuel has accumulated in the chamber.
 - ✗ **DO NOT** place cooking utensils on top of the heater.
 - WARNING!** Not suitable for use on wooden floors or other combustible materials. In use the heater should rest on suitable insulating material at least 26mm thick, extending 1 metre or more beyond the heater in all directions.
 - WARNING!** In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such a timer, or connected to a circuit that is regularly switched on and off by the utility.
 - ✗ **DO NOT** operate the machine outdoors during severe weather conditions.
- 1.2.1. If the machine is used in humid environments, disconnect the power supply and contact professional service personnel immediately if faults occur.

1.2.2. **OPERATIONAL SAFETY**

- ✓ Indirect-Fired means that all of the combustion products enter the heated space. Even though this heater operates very close to 100 percent combustion efficiency, it still produces small amounts of carbon monoxide. Carbon monoxide (called CO) is toxic. CO can build up in a heated space and failure to provide adequate ventilation could result in death. The symptoms of inadequate ventilation are:
 - Headache
 - Dizziness
 - Burning eyes and nose
 - Nausea
 - Dry mouth or sore throat
- ✓ Be sure to follow advice about ventilation in the Safety section.
- ✓ Forced Air means that a blower or fan pushes the air through the heater. Proper combustion depends upon this air flow; therefore, the heater must not be revised, modified or operated with parts removed or missing. Likewise, safety systems must not be circumvented or modified in order to operate the heater. When the heater is to be operated in the presence of other people the user is responsible for properly acquainting those present with the safety precautions and instructions, and of the hazards involved.
- ✓ Check the heater thoroughly for damage. **DO NOT** operate a damaged heater.
- ✗ **DO NOT** modify the heater or operate a heater which has been modified from its original condition.
- ✓ For indoor use only. Not for use where exposed to weather.
- ✓ Use in well ventilated areas, provide at least 0.19m² of opening near the floor and 0.19m² near the ceiling directly to outdoors. Increase air openings for each additional heater.
- ✓ Always keep combustibles, like paper and wood at least 2.4m from the heater outlet and 1.2m from the top, sides and inlet. Locate 3.0m from canvas or plastic coverings and secure them to prevent flapping movement.
- ☐ **WARNING!** Due to the high surface and exhaust temperatures, adults and children must observe clearances to avoid burns or clothing ignition. **DO NOT** touch. Keep children, clothing, and combustibles away. Install the heater such that it is not directly exposed to water spray, rain and / or water.
- ✓ Never use in areas normally for habitation and /or where children may be present.
- ✓ Operate only on a stable, level surface.
- ✗ **DO NOT** use with duct work. **DO NOT** restrict inlet or exit.
- ✓ Use only with electrical power specified.
- ✗ **DO NOT** move, handle, or service while hot or in operation.



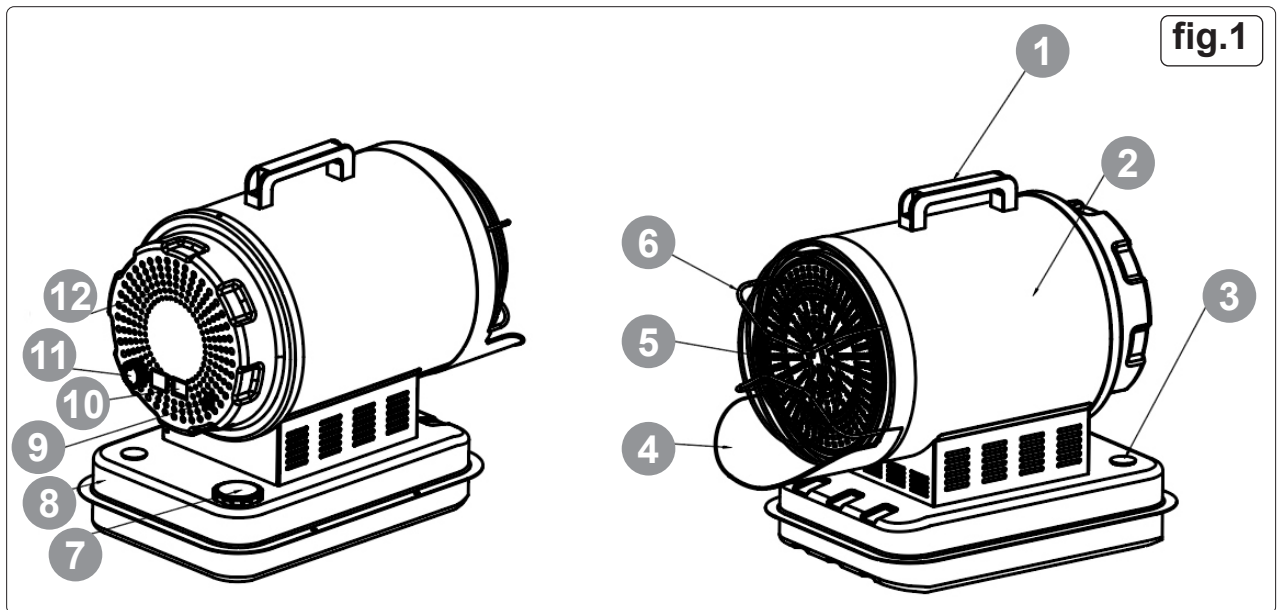
2. INTRODUCTION

Versatile infrared multi-fuel heater designed to run on kerosene or diesel. Clean burning, suitable for well-ventilated applications. 15L Tank allows approximately 10.5hrs running time, making this unit extremely economical. Produces an output of 51,000Btu/hr, heating an area of approximately 12,500ft³(350m³). LED display for ambient and thermostatically controlled temperature. Fuel gauge and heavy-duty fuel cap. Supplied with stainless steel heat deflector which protects the floor from heat damage when used. Carry handle for easy transportation. Safety features include automatic overheat shut-off and tip over protection.

3. SPECIFICATION

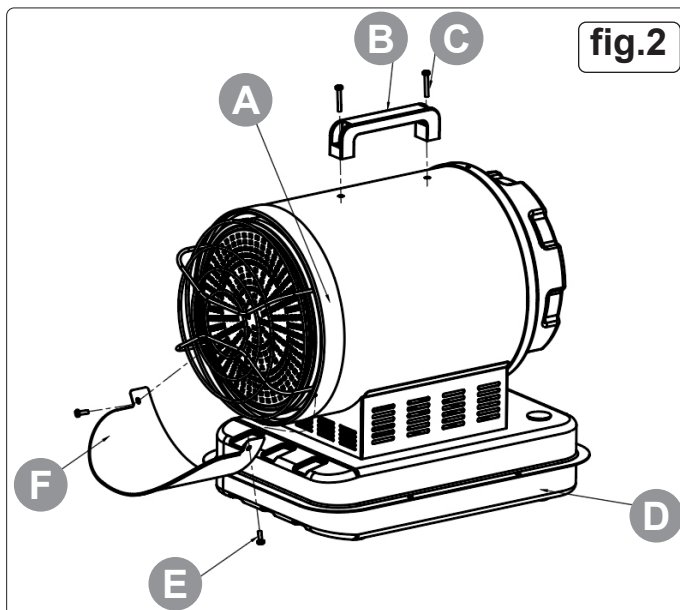
Model No	IR115.V2
Airflow	400m ³ /hr
Fuel Tank	15L
Fuel Consumption	1.19kg/hr(1.4L/hr)
Fuel	Kerosene/Diesel
Fuse Rating	5A
Heated Area	12,500ft ³ (350m ³)
IP Rating	IPX4
Motor Power	75W
Nett Weight	16.3kg
Output	51,182Btu/hr(15kW)
Plug Type	3-Pin BS
Power Supply Cable Length	2.1m
Running Time per Filling (Maximum)	10.5hr
Supply	230V - 0.6A
Transport Wheels	No

4. CONTENTS (FIG.1)



1	Handle	7	Fuel filler cap
2	Outer casing	8	Fuel tank
3	Fuel gauge	9	On / Off switch
4	Reflective plate	10	Display screen
5	Front panel	11	Thermostat control knob
6	Front grill	12	Control box

5. ASSEMBLY (FIG.2)



5.2.1. NOTE: During installation, ensure the heater is properly seated on the fuel tank to facilitate correct alignment and ease of assembly.

5.1. HANDLE INSTALLATION

5.1.1. Insert the M5 × 16 screw (C) through the handle (B) and tighten it into the corresponding threaded hole on the outer barrel of the product. Ensure the screw is securely fastened.

5.2. REFLECTOR PLATE INSTALLATION

5.2.1. Position the reflector plate (F) onto the grill ring (A). Insert the 4* × 8 self-tapping screws (E) through the reflector plate and into the corresponding holes on the grill ring.

6. OPERATION

6.1. SAFETY PRECAUTIONS BEFORE USE

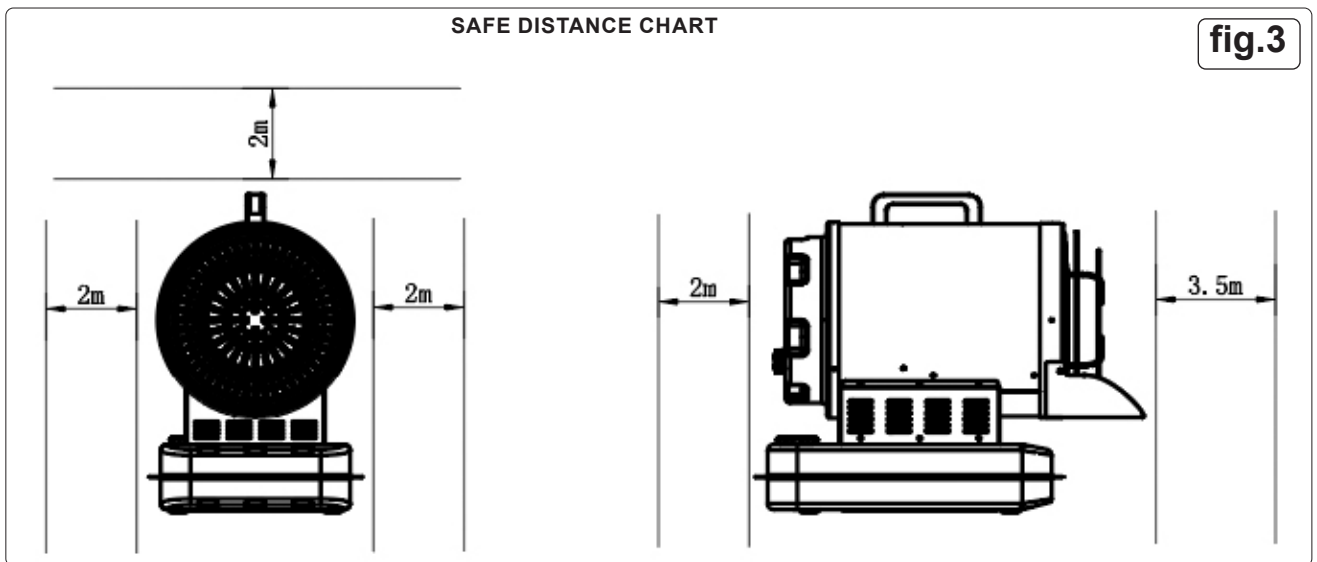
- ✘ **DO NOT** use highly volatile fuels (e.g. gasoline or petrol).
- 6.1.1. Only refuel when the heater is switched off and the flame has been completely cooled down.
- 6.1.2. Use only the specified grade of clean diesel fuel. **DO NOT** use contaminated or degraded fuel.
- 6.1.3. Avoid skin contact with diesel. If contact occurs, wash immediately with soap and water to prevent irritation or inflammation.
- 6.1.4. After operation, components such as the combustion tube, outer casing, and front pipe assembly may remain extremely hot. Do not touch these parts until fully cooled, as this may cause burns.
- 6.1.5. Inspect the fuel filler port before use. If blocked, clear any obstruction prior to operation.

6.2. REFUELLING

- ☐ **WARNING!** Ensure that the unit is disconnected from the power supply and that the power switch is in the "O" (OFF) position.
- 6.2.1. Place the unit on a stable, level surface.
- 6.2.2. Inspect the fuel tank for water or foreign particles. If present, drain and clean the tank before refilling.
- 6.2.3. Unscrew the fuel tank cap. Do not fill beyond the maximum fill level.
- 6.2.4. Carefully fill the tank with clean fuel.
- 6.2.5. Securely tighten the fuel tank cap by turning it clockwise.

6.3. IGNITION SAFETY GUIDELINES (FIG.3)

- 6.3.1. Verify that there is sufficient fuel in the tank before starting.
- 6.3.2. After ignition, maintain a safe clearance around the heater:
 - 6.3.2.1. Front: Minimum 3.5 metres
 - 6.3.2.2. Above: Minimum 2.0 metres
 - 6.3.2.3. Sides: Minimum 2.0 metres
- ✘ **DO NOT** approach the heating outlet while the unit is operating.



- ☐ **WARNING!** Discontinue use immediately if excessive smoke, unusual odours, or abnormal operation is observed. Switch off the unit and investigate the cause before further use. Once ignition has been confirmed, the heater may be left to operate unattended, provided all safety clearances and operating conditions are maintained.

6.4. IGNITION PROCEDURE

- 6.4.1. Insert the plug into a suitable power socket.
- 6.4.2. Press the power switch to the "I" (ON) position (fig.1.9).
- 6.4.3. Adjust the temperature thermostat to a setting higher than the ambient temperature.
- 6.4.4. The igniter will activate, the motor will begin rotating, and combustion will commence.

6.5. IF THE UNIT FAILS TO IGNITE

- 6.5.1. Turn the power switch to the "O" (OFF) position to reset.
- 6.5.2. Return the switch to the "I" (ON) position and repeat the ignition steps.
- 6.5.3. If the heater does not ignite after three attempts, discontinue use and contact your supplier or authorised service agent.

- ☐ **WARNING!** Ensure the surface beneath the heater does not become excessively hot during operation, as this may present a fire hazard.

6.6. SHUTDOWN PROCEDURE

- 6.6.1. Press the power switch to the "O" (OFF) position. Combustion will stop immediately.
- 6.6.2. The internal fan will continue to operate for approximately 120 seconds to cool the unit before automatically stopping.
- 6.6.3. Once fully stopped, unplug the heater from the power supply.

6.7. FLAME FAILURE PROTECTION

- 6.7.1. If the flame is extinguished, the flame detection system will interrupt the power supply, automatically shutting down the heater.

6.8. COOL-DOWN (DELAY) PROTECTION

- 6.8.1. After switching the unit off, the fan will continue to run for approximately 120 seconds to allow safe cooling of internal components.

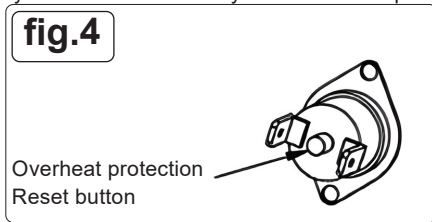
6.9. FUEL LEVEL MONITORING

- 6.9.1. A fuel gauge is located at the end of the fuel tank to indicate the fuel level:
- 6.9.2. When the pointer reaches "E", the fuel level is low. Refill immediately to prevent the machine from stopping.
- 6.9.3. When the pointer points to "F", the tank is full.



6.10. OVERHEAT PROTECTION (FIG.4).

- 6.10.1. If airflow is restricted (e.g. due to blockage of the air inlet/outlet) or if internal temperatures exceed safe limits, the overheat protection system will automatically disconnect the power supply, stopping the heater.



6.11. OPERATING AMBIENT TEMPERATURE

- 6.11.1. This product is designed to operate within an ambient temperature range of -25 °C to 65 °C.

7. MAINTENANCE

- **WARNING!** Always turn off the machine and disconnect the power supply before performing any inspection or maintenance. Ensure the fuel tank is completely empty of oil during maintenance.

- **WARNING!** Ensure the fuel tank is completely empty of oil during maintenance.

7.1. FUEL TANK INSPECTION

- 7.1.1. Check the fuel tank for any foreign materials or water. If any contaminants or water are found, clean the tank thoroughly and remove them before use.

7.2. NOTE: The machine should be serviced after every 360 hours of operation.

- * **DO NOT** operate the machine until maintenance is completed, as failure to do so may result in malfunction.

- * **ELECTRIC EYE INSTALLATION AND CLEANING (FIG.5).**

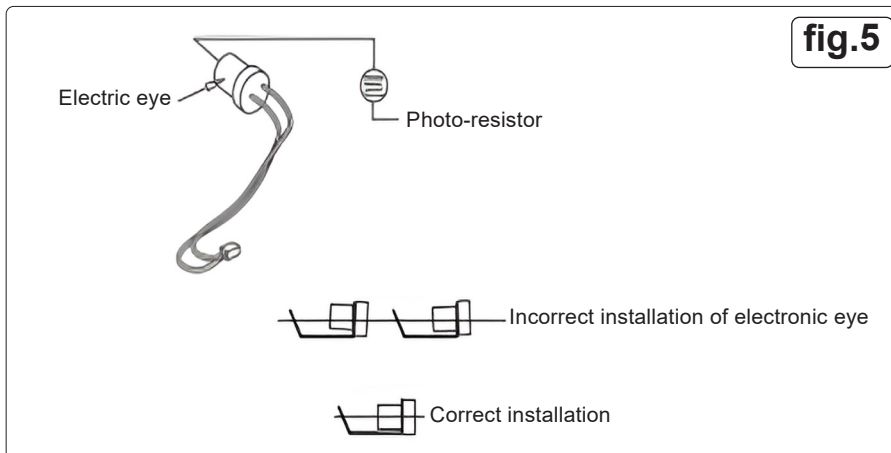
- 7.2.1. Open the control box.

- 7.2.2. Remove the photo-resistor from the electric eye assembly.

- 7.2.3. Clean the surface of the photo-resistor using a cotton swab dampened with water or alcohol.

- 7.2.4. Reinsert the photo-resistor into its protective sleeve.

- 7.2.5. Reinstall the electric eye assembly securely.



7.3. HANDLING

- 7.3.1. The heater should be handled with care to prevent damage and ensure safe operation.

- 7.3.2. Always allow the unit to cool completely before moving, servicing, or refuelling, and use appropriate personal protective equipment when handling fuel.

- 7.3.3. Avoid dropping or subjecting the heater to impact, as this may damage internal components.

7.4. STORAGE

- 7.5. Keep the heater in a clean, dry, and well-ventilated area away from direct sunlight, moisture, and sources of ignition.

- 7.5.1. Fuel should be stored separately in approved, clearly labelled containers in accordance with local regulations. Ensure the fuel tank is emptied prior to long-term storage to prevent contamination or degradation.

- 7.5.2. Keep the unit out of reach of children and unauthorised personnel, and protect it from dust and debris by covering or storing it in its original packaging where possible.

7.6. TRANSPORT

- 7.6.1. When transporting the heater in a vehicle, it is important to ensure it is handled safely and securely to prevent damage and reduce potential hazards. The heater should be switched off, fully cooled, and, where possible, emptied of fuel before transport to minimise the risk of spills or fumes inside the vehicle. It must be positioned upright and firmly secured using straps or restraints to prevent movement during transit, avoiding tipping or impact damage. Adequate ventilation in the vehicle is recommended, particularly if any residual fuel remains in the tank. Additionally, care should be taken to keep the heater away from other items that could be contaminated by fuel or damaged by contact.

8. TROUBLESHOOTING

Symptom	Technical Cause	Assessment / Action
Initial odour, smoke, or sparking during first use	Combustion of residual manufacturing substances (protective oils, dust, and coatings) within the combustion chamber	Normal during initial operation; condition will clear after a short burn-in period
Unusual sound, odour, or white smoke after refuelling or fuel depletion	Air trapped in the fuel line mixing with fuel, causing unstable ignition and incomplete combustion	Normal; will self-correct once air is purged and fuel flow stabilises
Irregular or abnormal sounds during ignition or shut-down	Thermal expansion and contraction of metallic components due to rapid temperature changes	Normal mechanical effect; no action required unless noise becomes excessive
Flame or sparks visible at outlet during initial ignition	- Incomplete air-fuel mixing- Residual fuel and air in nozzle causing intermittent combustion- Carbon particles igniting from previous operation	Normal during initial ignition; will stabilise once combustion becomes consistent

8.1. ERROR CODES

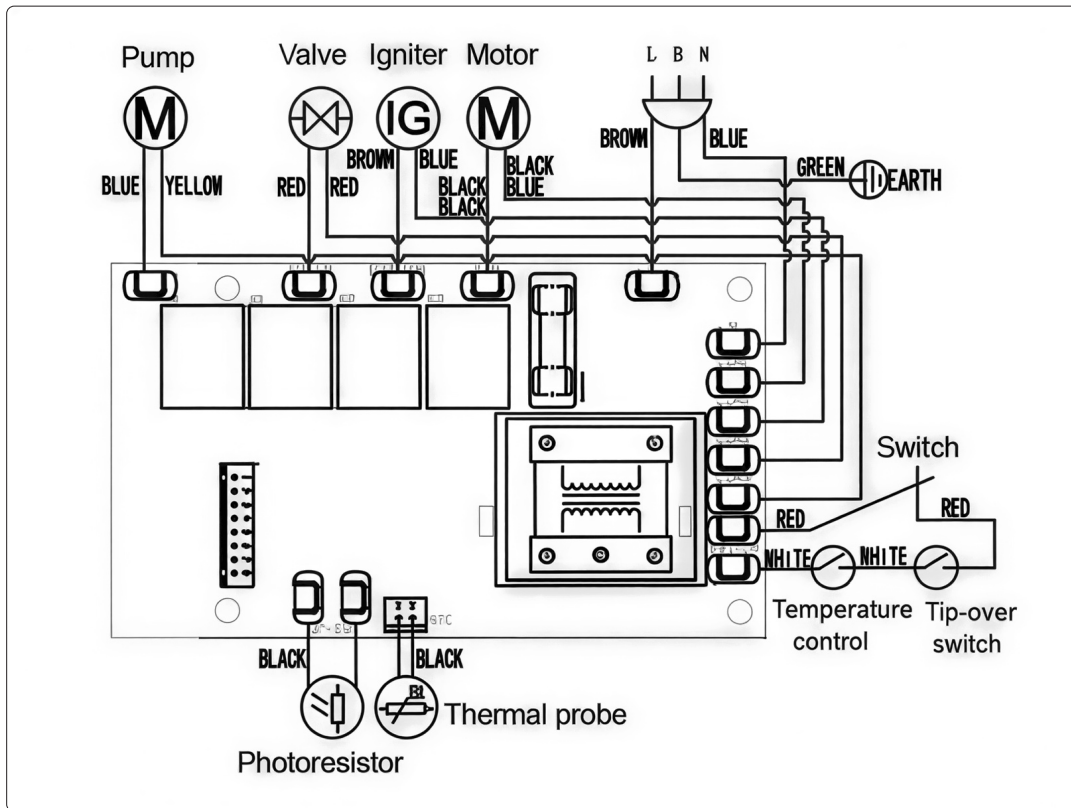
8.1.1. If an error code appears on the display, please follow the instructions below to identify and resolve the issue.

Error Code	Cause	Solution
E1	Insufficient fuel in the tank	Refill the fuel tank
	Electric eye malfunction	Clean dust from the electric eye or replace it
	Poor combustion	Replace the fuel or clean the fuel filter
	Ignition pin not operating	Clean the ignition needle, reconnect wiring, or replace the ignition transformer
E2	Temperature sensor fault	Check if the probe wire is disconnected or if the connection is loose

Symptom	Inoperative	Will not fire up	Burn out	Oil leakage	Smoke and dust	High flame	Solution
No electricity	•						Check power supply
Power cut	•						Reset heater
Low voltage					•	•	Find voltage drop issues
Frequency misalignment					•	•	Use indicated frequency
Clogged air vent			•				Clean air hole in filler cap
Filter clogged			•		•	•	Check filter and replace
No Fuel			•				Refuel
Water contamination		•			•	•	Clean the fuel tank
Degraded fuel					•	•	Clean tank replace fuel
Discharge screw loose				•			Tighten discharge screw

If unresolved, consult your Sealey stockist.

9. WIRING DIAGRAM



10. END OF LIFE

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

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. 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.



REGISTER YOUR PURCHASE HERE

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