LAVOR

SIMPLY STRONGER

INDUSTRIAL RADIANT HEATER

Low Noise • Reduced Fumes & Odour
Thermal Cutout Protection • Thermostat Control

IRH-125

USER MANUAL

CONTENTS

ABOUT THIS DOCUMENT

This manual has been compiled by Lavorwash Pty Ltd and is an integrated part of the product with which it's enclosed and should be kept with it for future reference. Please read all of the information supplied in this User Manual before operating this product.

This manual describes the purpose for which the product has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that you read the information supplied before carrying out any maintenance or repair. By following all the general safety instructions contained in this manual you will help to ensure operator safety and extend the potential life span of the equipment.

All photographs and drawings in this manual are supplied by Lavorwash Pty Ltd to help illustrate the operation of the product. Whilst every effort has been made to ensure accuracy of information contained in this manual our policy of continuous improvement determines the right to make modifications without prior warning.

Contact your nearest Lavorwash Pty Ltd if you are unsure about any information included in this manual or require any additional information about the safe use, operation, maintenance, or repair of this equipment.

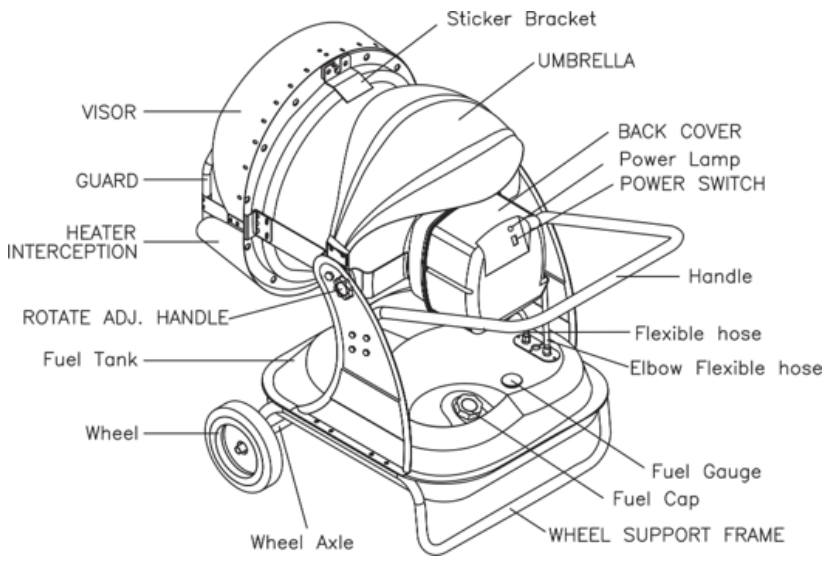
INTRODUCTION

- The LAVOR IRH-125 Industrial Radiant Heater generates 125,000 BTU (36kW) of infrared heat, making it ideal for heating large, well-ventilated spaces such as garages and warehouses.
- Suitable for use with diesel and kerosene.
- Features a durable 40L steel fuel tank with an economical average fuel consumption of 3.4 liters per hour.
- Includes an LED thermostatic control with automatic cut-off, ensuring cost savings through reduced energy and fuel consumption.
- Equipped with a timed ventilation system to efficiently cool the combustion chamber.
- Designed with a tough, powder-coated housing for enhanced protection against the elements and challenging work environments.
- Additional features include a strong carry handle on top of the heater, a safety grill, a simple on/off switch, and an ignition button.
- Fully tested and compliant with ERP (Energy Related Product) regulations.

SPECIFICATIONS

Voltage ~ Frequency:	230V ~ 50Hz
Power:	59W
Power Cable / Plug:	10A AU Style Plug
Heat Output:	125,000 BTU/Hr (36kW)
Average Heating Area:	290m²/h
Fuel Consumption:	3.4L/Hr
Fuel Type:	Diesel / Kerosene
Fuel Tank Capacity:	40L
Maximum Run Time:	12Hrs
Assembled Dimensions (LXWXH):	1155mm x 696mm x 930mm
Weight:	34kg

EQUIPMENT IDENTIFICATION



SAFETY GUIDELINES

Please read and ensure that you understand all of the operating instructions, safety precautions and warnings in this Instruction Manual before operating or maintaining this equipment. Save this user manual and keep it with the equipment for future reference. An accident can often be avoided by recognizing a potentially hazardous situation before it occurs, and by observing the appropriate safety procedures.

Never use this equipment or modify it in any way that has not been specifically recommended by the manufacturer. Ensure that the heater is maintained, cleaned and serviced regularly and stored in a suitable environment. Check the equipment for any signs of damage before use. Contact a qualified electrician for advice on any issues relating to electrical safety in your working environment

GENERAL EQUIPMENT SAFETY

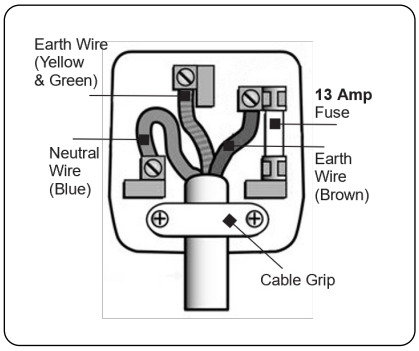
- Always follow basic safety precautions when using your heater to reduce the risks of fire, electric shock, personal injury, and/or damage to the heater.
- Familiarize yourself with the specifications, fuel and electrical supply requirements, equipment controls, warning labels, and operating instructions before use.
- Do not use the heater in damp or wet locations, such as bathrooms, or expose it to rain. (Refer to the clearance guidelines included in this document.)
- Never operate the heater in explosive atmospheres or environments containing flammable liquids, gases, dust, or other combustible substances.
- Keep children, pets, animals, and untrained personnel away from the work area during operation.
- Store the heater in a dry and secure location when not in use.
- Do not modify the machine in any way that could compromise safe operation.
- Keep the work area around the machine clear and free of clutter to prevent accidents and injuries.
- Inspect the equipment and cabling before each use. Do not use the heater if any damage is detected. For repairs or maintenance, contact Lavorwash Pty Ltd.
- Only use LAVOR replacement parts to maintain safe equipment use and avoid invalidating the warranty. Repairs should always be carried out by a qualified engineer.
- Do not allow untrained individuals to operate the heater, and never operate it without all covers and housing properly fitted.
- Do not move or handle the heater while it is running or still hot. Always turn it off and allow it to cool before moving it.
- Never leave the heater unattended while in use. Turn it off and unplug it from the mains supply before leaving the work area.
- Ensure that the air inlet (rear) and air outlet (front) of the heater are not obstructed.
- Do not use any form of ducting on the front or rear of the heater.
- Always operate the heater in an upright position on a level surface with sufficient clearance (see page 7 for details).
- Never stand on the heater.

WARNING:
No responsibility is accepted for incorrect use of this equipment. Incorrect use can result in damage to the equipment and danger to the user. Warranty will be void in the event of incorrect use. The warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

ELECTRICAL SAFETY

Ensure that you check the equipment thoroughly to ensure it is safe and fit for purpose before each use. It is important that you inspect all plugs, sockets, power cables and electrical fittings for wear and damage and repair or replace any defective components. The risk of electric shock can be minimised by the correct use of the appropriate electrical safety devices.

- We recommend that you fit a Residual Current Circuit Breaker (RCCB) in the main distribution board and that a Residual Current Device (RCD) is used when operating this equipment.
- Check that all equipment cables are secure, correctly insulated, free from damage, and protected against short circuit and overload before connecting to the power supply. Do not use worn or damaged cables, plugs, sockets or other fittings.
- Ensure that the power supply matches voltage requirements specified on the equipment and that the plug is wired correctly and fitted with the correct fuse.
- If the electrical fuse blows, ensure it is replaced by an identical type of fuse with the same rating.
- Never pull or manoeuvre this equipment into position using the power cable.
- Ensure the power cable is kept away from heat, oil and sharp edges.
- We recommend that the equipment is connected directly to the power supply without the use of extension leads as the resulting voltage drop can reduce motor performance.
- Always disconnect the equipment from the power source before servicing, inspecting, maintaining, cleaning, replacing or checking any parts.



WORK AREA SAFETY

- Always ensure a sufficient working area, that is clean and tidy, and free access to the machine and peripheral devices.
- Ensure sufficient lighting is available in the working area which will not create shadows or cause a stroboscopic effect.
- Disconnect the heater from the mains supply when not in use.
- Avoid unintentional starting: Make sure the switch is in the “OFF” position before connecting the heater to the mains supply.
- Never carry the heater by the mains lead or pull it to remove the plug from the mains socket. Keep the mains lead away from heat, oil and sharp edges.
- If the mains lead is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid unwanted hazards.
- Do not expose the heater to water spray, rain, dripping water or moisture of any kind.
- Do not touch the heater outlet or any internal parts when first switched off as these can be hot and will take time to cool.
- Ensure that the heater is correctly turned off when not in use and stored in a safe, dry area, out of reach of children.
- Do not unplug the heater to switch it off - always use the ON / OFF switch on the control panel and allow the cooling fan to run and automatically stop (after around 3 minutes?) before disconnecting from the mains supply.

WARNING: Do not use the heater near flammable material, liquids, solids, gases or compressed gas cylinders. Do not direct the front of the heater towards any combustible materials (e.g. wooden items, cloth, plastics, paper).

WORKING ENVIRONMENT

WARNING! Only operate and refuel/fuel the heater in well ventilated areas. careful consideration must be given to the placement of the heater to provide safe and comfortable heating. Ensure continuous ventilation is provided to the heater operating area. A ventilation opening must run to the outside of the premises in which the heater is to be operated

WARNING: Small quantities of Carbon Monoxide are released during the combustion process ensure this equipment is only ever operated in safe working environments with sufficient ventillation. Stop the heater immediately if any symptoms are experienced (dizziness, headache, nausea etc.) and seek medical advice.

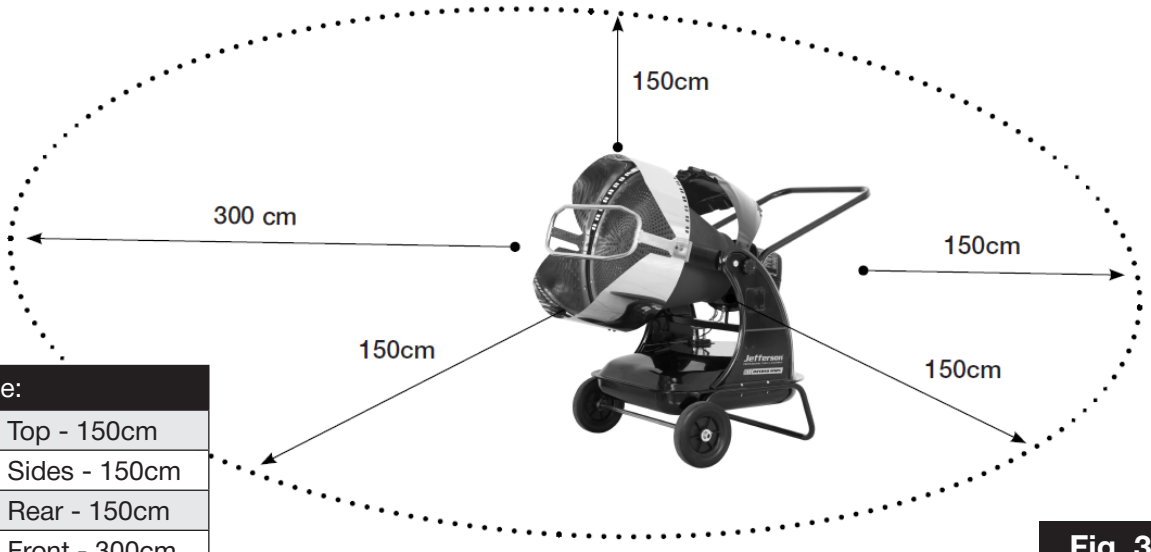
WARNING! Air contaminants taken into the heater may affect the heat output, damage the heater and may cause health problems.

Example: Body-shop filler dust/paint overspray will damage the motor bearing, clog the filter and compressor and contaminate the combustion chamber causing flame flutter and health hazards.

Please note that any parts damaged by filler dust/paint overspray or similar will not be covered by warranty.

CLEARANCE REQUIREMENTS

Always provide adequate space around the heater as shown in the diagram and table in (Fig.3) below:

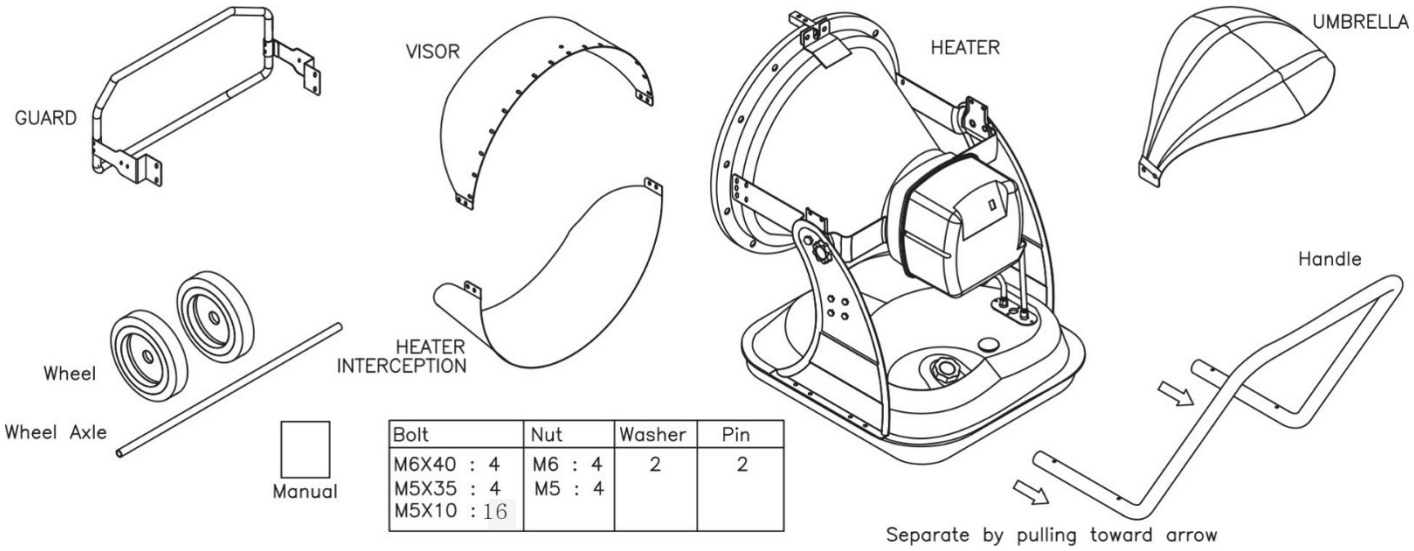


Clearance:	
Top:	Top - 150cm
Sides:	Sides - 150cm
Rear:	Rear - 150cm
Front:	Front - 300cm

Fig. 3

UNPACKING AND ASSEMBLING

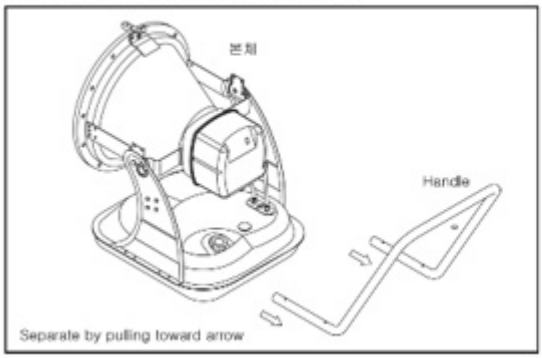
Open the packing box and take out the heater, accessories and manual etc then check.
For the contents, refer to the picture.



Bolt	Nut	Washer	Pin
M6X40 : 4 M5X35 : 4 M5X10 : 16	M6 : 4 M5 : 4	2	2

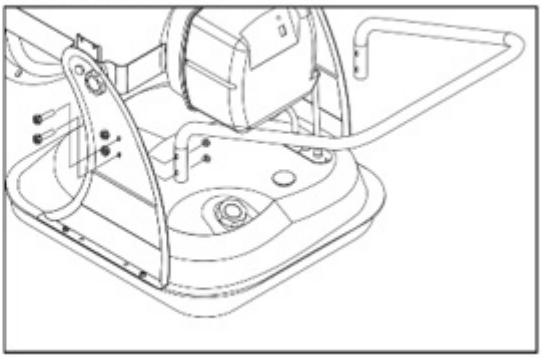
Assembling. 1

Open the box and take out the Heater. Separate the handle, inserted in Heater by pulling toward arrows



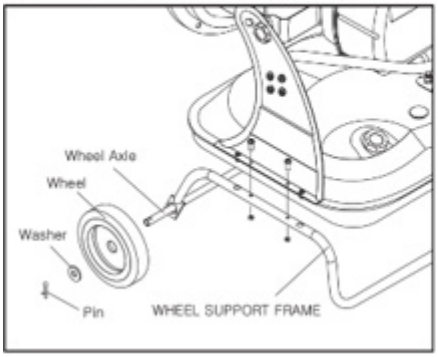
Assembling. 2

Fix the handle tightly according to the direction on diagram with Bolt(M6X40) and Nut



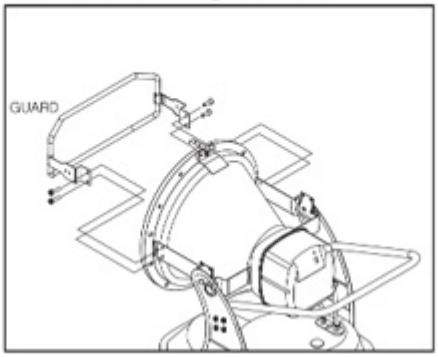
Assembling. 3

Assemble the Heater on appointed position of wheel Support Frame(described on diagram) with Bolt(M5X35) and Nut According to diagram, After assembling wheel and Wheel Axle, and fix with washer and pin.



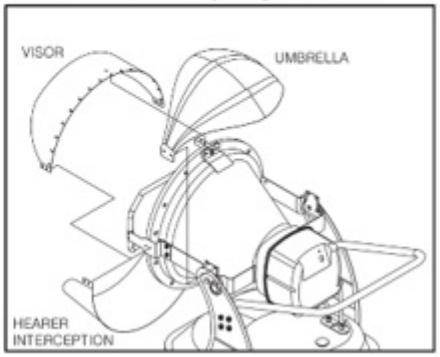
Assembling. 4

Assemble the Guard using M5X10 Bolt.



Assembling. 5

Assemble Visor, Heater Interception and Heat umbrella on the main body using M5X10 Bolt.



OPERATING PRINCIPLE

The LAVOR IRH-125 Industrial Radiant Heater generates up to 125,000 BTU/H (36.6kW) of infrared heat, which warms objects rather than the air. Infrared heating is similar to the warmth we feel from the sun and makes this heater an excellent solution for heating large, well-ventilated spaces such as garages and warehouses.

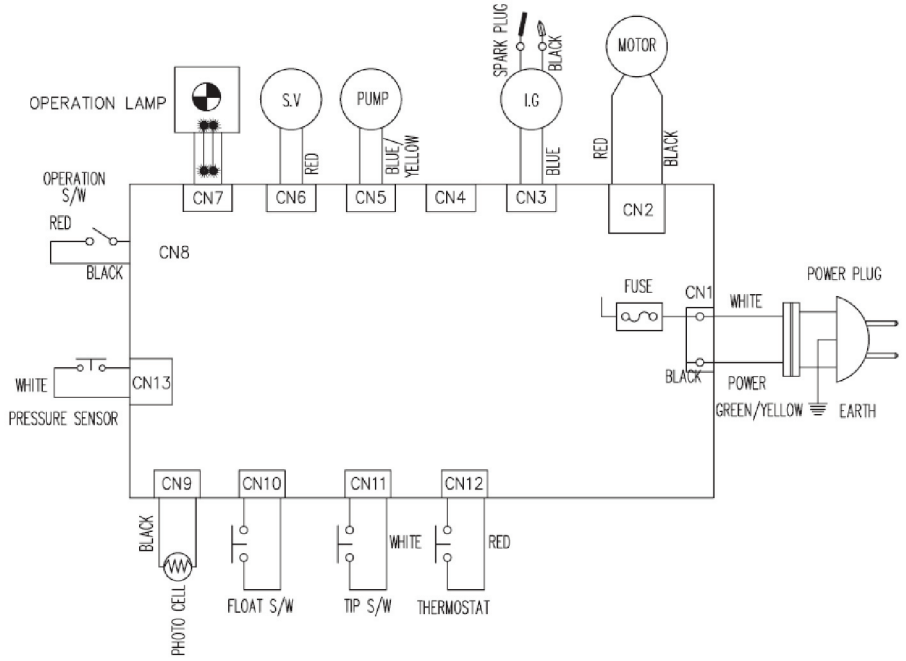
Proper combustion requires airflow, which is supplied by the internal burner fan. The air enters the burner funnel and mixes with a high-pressure fuel jet. Fuel flow is maintained by an electric pump, which draws fuel from the tank and delivers it to the nozzle under high pressure.

The IRH-125 heater is equipped with safety cut-outs to prevent overheating and protect the unit in the event of a tip-over. Additionally, the heater features a clean and efficient burning system, designed to operate on diesel or kerosene.

WARNING: Do Not Use Petrol or Gasoline Fuel With This Heater!

Please Note: When using the heater for the first time, you may notice a slight emission of smoke, or a slight burning smell. This is normal and will stop after a short time. Parts of the heater were coated with protection oil during production. The smoke / smell is caused by any small residue of this oil.

CIRCUIT/WIRING DIAGRAM



MAIN CONTROL PCB

OPERATING INSTRUCTIONS

STARTING THE HEATER

1. Fill the fuel tank until the fuel gauge points to “F”.
2. Ensure the fuel cap is securely tightened.
3. Plug the mains lead into a suitable power socket and turn the mains switch on.
4. Push the Power switch on the control panel to the “ON” (I) position.

Note: The temperature that the thermostat is set to will be shown on the display: If the set temperature is lower than the ambient temperature, the heater will not run and after a few seconds the ambient temperature will show on the display.

5. To start the heater, turn the thermostat control clockwise to raise the set temperature (as shown on the display) above the ambient temperature and the heater will run. If the set temperature is higher than the ambient temperature the heater will start to run.
6. Once running the ambient temperature will show on the display.

The set temperature can be adjusted at anytime during operation; Turn the thermostat control left to lower the temperature and clockwise to raise the temperature, at this time the temperature on the display indicates the set temperature and after a few seconds it will change to the ambient temperature.

The heater will run until the ambient temperature goes above the set temperature, at which point the heater will automatically stop running until the ambient temperature drops below the set temperature, or the thermostat is turned up.

STOPPING THE HEATER

1. Turn the power switch to the “OFF” (0) position.

2. Combustion will stop and the cooling cycle will begin.

3. When cooling cycle has been completed and the fan stops running (approximately 3 minutes), it is safe to turn off and unplug the heater at the mains supply.

WARNING! Do not turn the mains switch off or disconnect the heater from the mains supply to stop the heater or until the cooling cycle is complete. Turning the mains switch off, or removing the plug from the mains supply to stop the heater or before the cooling cycle is complete may cause overheating, possible damage to the heater and will void the warranty.

MAINTENANCE

Component:	Frequency:	Procedure:
Fuel Tank	Clean every 150-200 hours of operation or when necessary	Empty and rinse with fresh fuel.
Nozzle	Clean or replace once per season or when necessary	Contact Lavorwash Pty Ltd.
Photocell	Clean once per season or when necessary	Contact Lavorwash Pty Ltd.
Fuel Filter	Clean or replace twice per season or when neccesary	Clean the fuel filter with clean fuel.
Ignition Device	Clean or replace every 1000 hours of operation, or when necessary	Contact Lavorwash Pty Ltd.
Fan Blades	Clean when necessary	Contact Lavorwash Pty Ltd.

TROUBLESHOOTING / ERROR CODES

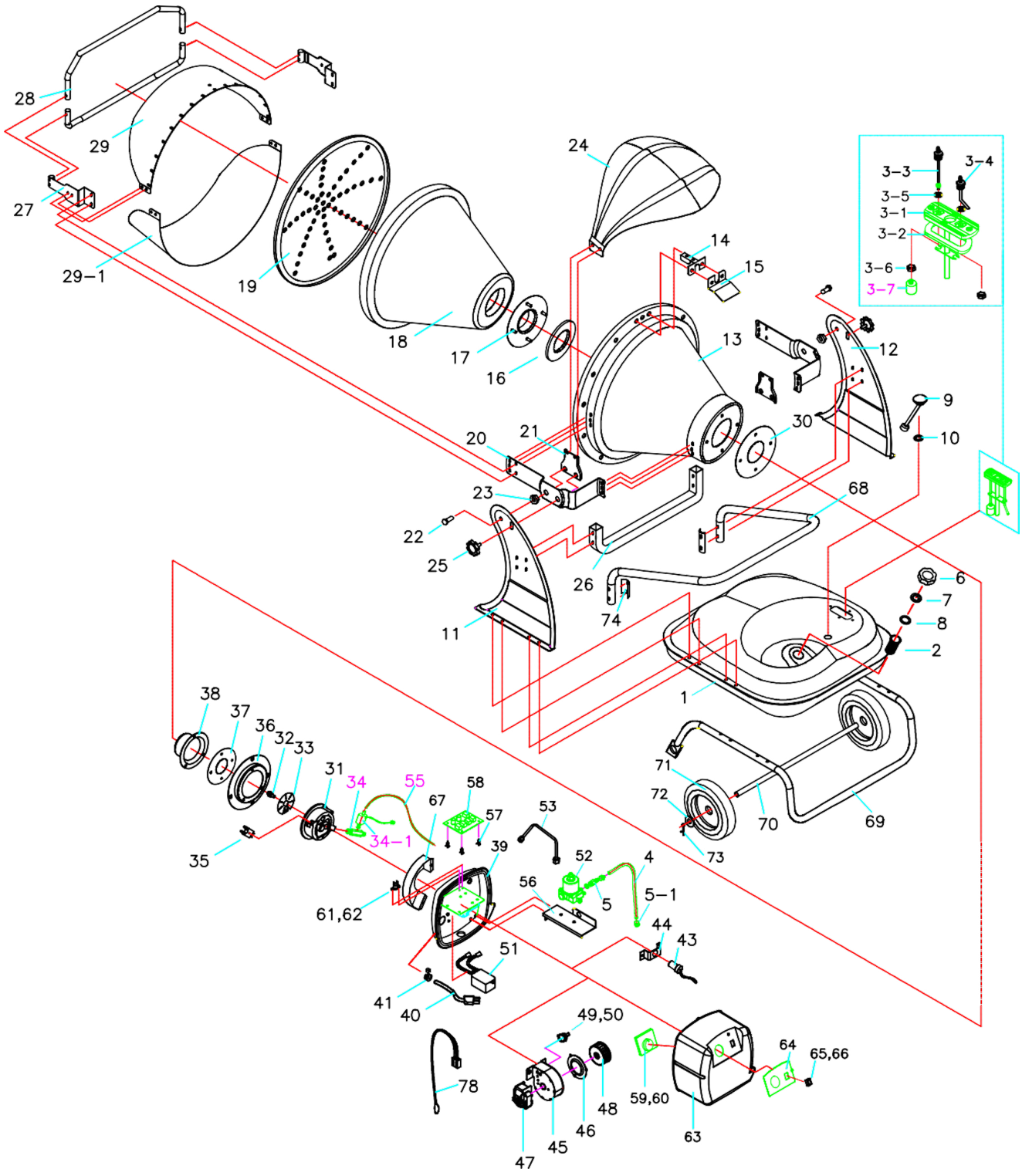
If errors occur, refer to the following chart:

	Possible Cause	Solution
E0	Plugged in while switch is on	- Switch heater off, then turn back on
E1	Low fuel level Photocell defective Combustion defective Ignition failure	- Fill the fuel - Change photocell - Clean fuel filter - Check spark plug
E2	Thermostat disconnected Thermostat defective	- Connect Thermostat - Replace Thermostat
E3	Heater overheating Sensor disconnected Sensor defective	- Turn off until cooled - Reconnect sensor - Replace sensor
E4	Blower Motor is stopped Blower Motor connection line broken When Blower Motor Fan is restrained	- Check wire connection - Contact service centre
Lo	Below 9°C	- Normal
Cn	Temp 45 - 59°C	- Normal

⚠ WARNING

1. Use only good quality Kerosene or Diesel.
2. DO NOT place any explosive material near heater.
3. DO NOT block rear guard
4. DO NOT block air duct.
5. Turn off the heater when refuelling or moving.
6. Safety distance from heater is 3 metres.
7. DO NOT try to disassemble, repair or modify the heater.
8. DO NOT let children touch the heater.
9. DO NOT move heater when it is turned on.

PARTS DIAGRAM



PARTS LIST

#	DESCRIPTION	#	DESCRIPTION
1	Fuel Tank	36	Burner Bracket
2	Fuel filter	37	Burner Head Gasket
3-1	Float Sensor	38	In Diffusion
3-2	Float Sensor Packing	39	Control Base
3-3	Fuel Pipe	40	Power Cord
3-4	Return Pipe	41	Cord Bush
3-5	Pipe Packing	42	Return Hose Joint Pipe
3-6	Nut	43	Photocell
3-7	Inlet Fuel Fiter	44	Photocell Bracket
4	Flexible hose	45	Blower Casing
5	Elbow Flexible hose	46	Inlet
5-1	Flexible hose Clamp	47	Blower Motor
6	Fuel Cap	48	Blower Fan
7	Fuel Cap Inner Packing	49	Thermostat
8	Fuel Cap Packing	50	Thermostat Wire
9	Fuel Gauge	51	Igniter
10	Fuel Gauge Packing	52	Electronic Pump
11	Tank Support -L	53	Electronic Pump Pipe
12	Tank Support -R	54	Fuel Filter
13	Cone Body	55	Return Hose
14	Visor Bracket	56	Electronic Pump Base
15	Sticker Bracket	57	Spacer Support
16	Out Diffusion Gasket	58	Main P.C.B
17	Out Diffusion	59	Sub P.C.B &Wire
18	Insulator Body	60	P.C.B Wire
19	Heat Plate	61	Tip Over Switch
20	Cone Body Holder	62	Tip Over Switch Wire
21	Umbrella Bracket	63	Back Cover
22	Bolt	64	Name Plate
23	Nut	65	Power Switch
24	Umbrella	66	Power Switch Wire
25	Rotate ADJ. Handle	67	Spark Plug Cover
26	Support Pipe	68	Handle
27	Guard Bracket	69	Wheel Support Frame
28	Guard	70	Wheel Axle
29	Visor	71	Wheel
29-1	Heater Interception	72	Washer
30	Burner Bracket Gasket	73	Pin
31	Burner Head	74	Pipe Washer
32	Nozzle	75	Pressure Sensor
33	Burner Head Blade	76	Venturi
34	Nipple	77	Pressure Sensor Hose
34-1	Dump Solenoid	78	Thermistor
35	Spark Plug		

ENERGY RELATED PRODUCT (ErP) DIRECTIVE INFORMATION

Model:	IRH-125 - Industrial Radiant Heater		
Indirect Heating Functionality:	No		
Direct Heat Output:	125,000BTU / 36kW		
Fuel:	Diesel / Kerosene		Space Heating Emissions:
			Nox
Select Fuel Type:	Liquid		46mg/kWhinput (GCV)

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Heat Output					**Useful Efficiency (NCV)**			
Nominal heat output	Pnom	32.2	kW		Useful efficiency at nominal heat output	$\eta_{th,nom}$	93.6	%
Minimum heat output (indicative)	Pmin	N/A	kW		Useful efficiency at minimum heat output (indicative)	$\eta_{th,min}$	N/A	%
Auxiliary electricity consumption					**Type of heat output/room temperature control (select one)**			
At nominal heat output	elmax	0.05	kW		single stage heat output, no room temperature control			No
At minimum heat output	elmin	0.05	kW		two or more manual stages, no room temperature control			No
In standby mode	elSB	N/A	kW		with mechanic thermostat room temperature control			No
					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 (multiple selections possible)			No
					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
Permanent pilot flame power requirement								
Pilot flame power requirement (if applicable)	Ppilot	N/A	kW					

Contact Details	**Lavorwash Australia Pty Ltd** **Number:** 13 000 LAVOR (52867) **Email:** sales@lavorwash.com.au **Address:** 7/76 Rushdale Street, Knoxfield Victoria 3180 **Website:** www.lavorwash.com.au

LIMITED WARRANTY STATEMENT

Lavorwash Pty Ltd (hereafter referred to as “LAVOR”) warrants its customers that its products will be free from defects in workmanship or materials. Upon suitable notification, LAVOR will correct any defects by repairing or replacing any parts or components of the product determined to be faulty or defective.

This warranty will be considered void if the equipment has been subjected to improper installation, storage, alteration, abnormal operations, improper care, service, or repair

Warranty Period

LAVOR will cover both the parts and labour expenses required to correct defects during the specified warranty periods outlined below.

All warranty periods commence from the date of purchase from an authorized LAVOR dealer. If the end user cannot provide proof of purchase, the date of purchase will be assumed to be three months after the initial sale to the distributor.

1 Year
IRH-125 - 125,000 BTU Industrial Radiant Heater

90 Days
All replacement parts purchased outside of warranty period

Important: *All parts used in the repair or replacement of warranty-covered equipment will be covered for a minimum of 90 days or for the remainder of the original warranty period, whichever is longer, starting from the original date of purchase.*

Warranty Repair

Should LAVOR confirm the existence of a defect covered under this warranty, the defect will be addressed through repair or replacement by LAVOR.

Packaging & Freight Costs

The Customer is responsible for packaging and returning the equipment to LAVOR for assessment.

After inspection, if no defect is found or if the equipment is determined not to be covered under the LAVOR warranty terms, the customer will be responsible for any labour and return transportation costs incurred. These costs will be discussed and agreed upon with the customer before the equipment is returned.

* Lavorwash Pty Ltd reserve the right to void any warranty for damages identified as being caused through misuse

Warranty Limitations

LAVOR will not accept responsibility or liability for repairs carried out by unauthorized technicians or engineers. LAVOR’s liability under this warranty is limited to the cost of correcting defects in LAVOR products.

LAVOR will not be liable for any incidental or consequential damages (such as loss of business or the hire of substitute equipment) resulting from the defect or the time required to correct it. This written warranty is the sole express warranty provided by LAVOR for its products.

Any implied warranties of merchantability are limited to the duration of this limited warranty for the equipment in question.

LAVOR assumes no responsibility for cable wear due to flexing or abrasion. The end user is responsible for routinely inspecting cables for potential wear and addressing any issues before cable failure occurs.

Claiming Warranty Coverage

The end user must contact Lavorwash Pty Ltd on 13 000 LAVOR (52867)

Step 1 - Reporting the Defect

Contact LAVOR or sales representative with the following information:

- Model number
- Serial number (usually located on the specification plate)
- Date of purchase

Contact LAVOR on 13 000 LAVOR (52867) for instructions on how to return the equipment for assessment.

Step 2 - Returning the Equipment

It is the customer's responsibility to ensure that the equipment is securely and appropriately packaged for collection, along with a copy of the original proof of purchase. Please note that LAVOR cannot accept responsibility for any damage to the equipment incurred during transit. Any claims related to damage caused by third-party couriers will be handled in accordance with the terms and conditions outlined in their road haulage association directives.

NOTE: Lavorwash Pty Ltd will be unable to process any warranty requests without a copy of the original proof of purchase.

Step 3 - Assessment and Repair

Upon receipt, the equipment will be assessed by an authorized LAVOR engineer to determine whether it is defective, in need of repair, and covered under the warranty policy. To qualify for warranty coverage, all equipment must have been used, serviced, and maintained as specified in the user manual.

If the repair is not covered under the warranty, a quotation for the repair, including labour costs and return delivery, will be provided to the customer (typically within 7 working days).

NOTE: If the repair quotation is not accepted, LAVOR will invoice for 1 hour of labour at $100 + GST per hour, in addition to return carriage costs (plus GST).

In cases where no fault can be found with the equipment, or, if incorrect operation of the equipment is identified as the cause of the problem, a minimum of 1 hour labour at $100 + GST per hour plus carriage costs will be required before the equipment will be despatched back to the customer.

Any equipment repaired or replaced under warranty will normally be ready for shipment back to the customer within 7 working days upon receipt of the equipment at an authorised LAVOR Repair centre (subject to part availability). Where parts are not immediately available LAVOR will contact you with a revised date for completion of the repair.

General Warranty Enquiries

For any further information relating to Lavorwash Pty Ltd warranty cover please call 13 000 LAVOR (52867) or send your enquiry via email to sales@lavorwash.com.au

Disclaimer:
The information provided in this document is, to the best of our knowledge, true and accurate. However, all recommendations and suggestions are made without guarantee. Since conditions of use are beyond our control, LAVOR disclaims any liability for loss or damage arising from the use of this data or suggestions.

Furthermore, no liability will be accepted if the use of any product, in accordance with this data or suggestions, infringes upon any patent. LAVOR reserves the right to modify product specifications and warranty statements without prior notice. All images included are for illustrative purposes only.

ENVIRONMENTAL PROTECTION

Recycle any packaging and unwanted materials responsibly, rather than disposing of them as waste. All tools, accessories, and packaging should be sorted, taken to a recycling centre, and disposed of in an environmentally friendly manner.

When the product becomes unserviceable or reaches the end of its working life, ensure that any fluids (if applicable) are drained into approved containers. Dispose of the product and its fluids in accordance with local regulations.

WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) STATEMENT

Information on Disposal for Users of Waste Electrical & Electronic Equipment

The symbol on the product(s) and accompanying documents indicates that used electrical and electronic products should not be disposed of with general household waste.

For proper treatment, recovery, and recycling, please take the product(s) to designated collection points, where they will be accepted free of charge.

Dispose of this product at the end of its working life in compliance with the Waste Electrical and Electronic Equipment (WEEE) regulations. For recycling information regarding this equipment, contact your local solid waste authority. Proper disposal of this product helps conserve valuable resources and prevents potential negative effects on human health and the environment, which could result from inappropriate waste handling.

Please contact your local authority for details on your nearest designated collection point. Penalties may apply for the incorrect disposal of this waste, in accordance with your national legislation.

LAVOR

SIMPLY STRONGER

LAVOR - IRH-125

USER MANUAL

125,000BTU - Industrial Radiant Heater

IRH-125

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IMPORTANT! SAFETY FIRST!

Before attempting to use this product please read all the safety precautions and operating instructions outlined in this manual to reduce the risk of fire, electric shock or personal injury.