



SILENT DRIVE

KEROSENE / DIESEL HEATER

USER'S MANUAL & OPERATING INSTRUCTIONS

RPH75R



DANGER

READ AND UNDERSTAND ALL OF THE INSTRUCTIONS IN THIS MANUAL BEFORE ASSEMBLING, STARTING, OR SERVICING THE HEATER. Be sure to comply with the instructions and warnings provided with this heater. Failure to comply can result in fire or explosion that can cause property loss, bodily injury, or loss of life. Only persons who can follow and understand these instructions should operate or service this heater. If you need heater info; such as an operating manual, labels, etc. Please visit our website www.remingtonpower.co.nz

NOT FOR USE IN RESIDENTIAL LIVING AREAS OR IN ENCLOSED SPACES WITHOUT ADEQUATE VENTILATION. FOR OUTDOOR USE. INDOOR USE PERMITTED ONLY FOR: The temporary heating of adequately ventilated buildings or structures under construction, alteration or repair. This is an unvented portable heater that uses air (Oxygen) from within the area in which it is used. Failure to provide adequate combustion and ventilation air will result in asphyxiation, carbon monoxide poisoning, bodily injury or death. Refer to "Ventilation" on Page 7.

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INTRODUCTION

Your new Remington Heater will more than satisfy your expectations. It has been manufactured under stringent quality standards to meet superior performance criteria. You will find your new tool easy and safe to operate, and, with proper care, it will give you many years of dependable service.

 **CAUTION:** *Carefully read through this entire Instruction Manual before operating your new Remington Heater. Take special care to heed the Cautions and Warnings.*

ENVIRONMENTAL PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be sorted, taken to the local recycling centre and disposed of in an environmentally safe way.



SAFETY INFORMATION

 **WARNING:** *Fire, burn, inhalation and explosion hazard.*

Keep combustibles such as building materials, paper or cardboard a safe distance away from the heater as recommended by these instructions. Never use the heater in spaces which contain products such as; gasoline, solvents, paint thinners, dust particles, volatile or airborne combustibles or any unknown chemicals. This is an unvented portable heater. It uses air (Oxygen) from the area in which it is used. Adequate combustion and ventilation

air must be provided. Refer to "Ventilation" on page 7. Bulk fuel storage should be a minimum of 8 metres from heater.

 **WARNING:** *Do not operate this heater until you have read and thoroughly understand these safety and operating instructions.*

Failure to comply with the precautions and instructions provided with this heater can result in death, serious bodily injury, property loss or damage from the hazards of fire, soot production, explosions, burns, asphyxiation or carbon monoxide poisoning. Only persons who can read and understand these instructions should use or service this heater.

 **WARNING:** *Do not start the heater when excess oil has accumulated.*

 **WARNING:** *Do not start the heater when the chamber is hot.*



Look for this icon throughout the manual for helpful tips on how to assemble, use and clean your Silent Drive Heater.

 **WARNING:** *Risk of indoor air pollution!*

The products described in this manual are Kerosene/Diesel direct-fired, forced air heaters. Kerosene/Diesel forced air heaters are primarily intended for use for temporary heating of buildings under construction, alteration or repair. Direct-fired means that all of the combustion products of the heater enter the heated space. This appliance is rated at 98% combustion efficiency, but does produce small amounts of carbon monoxide.



WARNING: *Carbon monoxide poisoning may lead to death!*

Carbon monoxide is toxic. Humans can tolerate only small amounts of carbon monoxide and so precautions should be taken to provide proper ventilation. Failure to provide proper ventilation in accordance with the instructions in this manual can result in death. People with breathing problems should consult a physician before using this heater.

Early signs of carbon monoxide poisoning resemble the flu. Symptoms of improper ventilation / carbon monoxide poisoning are: Headache • Dizziness • Nausea • Dry Mouth Sore Throat • Burning of Nose and Eyes

If you experience any of these symptoms: **GET FRESH AIR AT ONCE!** Have your heater serviced and check for proper ventilation. Some people are more affected by carbon monoxide than others. These include: pregnant women, those with heart or lung problems, anemia or those under the influence of alcohol or at high altitudes.

FOR OUTDOOR USE. INDOOR USE PERMITTED ONLY FOR: The temporary heating of adequately ventilated buildings or structures under construction, alteration or repair! Provide at least a three square foot (2,800 sq cm) opening of outside air for every 100,000 Btu / Hr heater rating. Refer to "Ventilation" on page 7 for further instructions.



WARNING: *Risk of electric shock!*

ALWAYS use only the electrical power (voltage and frequency) specified on the model plate of the heater.

ALWAYS use only three-prong, grounded outlet and extension cord.

ALWAYS unplug the heater when not in use.

ALWAYS install the heater so that it is not directly exposed to water spray, rain, dripping water, or wind.



WARNING: *Risk of burns, fire and explosion!*

NEVER use fuels such as gasoline, benzene, paint thinners or other oil compounds in this heater.

NEVER refill the heater's fuel tank while the heater is operating or still hot. This heater is **EXTREMELY HOT** while in operation.

NEVER block air outlet (front).

NEVER use duct work in front of heater.

NEVER move or handle heater while still hot.

NEVER transport heater with fuel in tank.

NEVER use with an external fuel tank.



CAUTION: *Hot while in operation. Do not touch. Keep children, animals, clothing and combustibles away from heater.*

Minimum Clearance From Combustibles

4m from the top, 4m from the sides and 8m from the front.

ALWAYS locate heater on a stable and level surface.

If your heater is equipped with a thermostat, once it is plugged in, it can start at anytime in accordance with the thermostat setting.

SPECIFICATIONS

Model #:	RPH75R
Rating:	70,000 Btu/Hr
Fuel Consumption:	1.8L/Hr
Fuel Tank Capacity:	12L
Max Operating Hours:	6.0
Volts:	230V / 50Hz
Amps:	<5A
Heating Area:	162m ²

Specifications subject to change without notice.



FEATURES

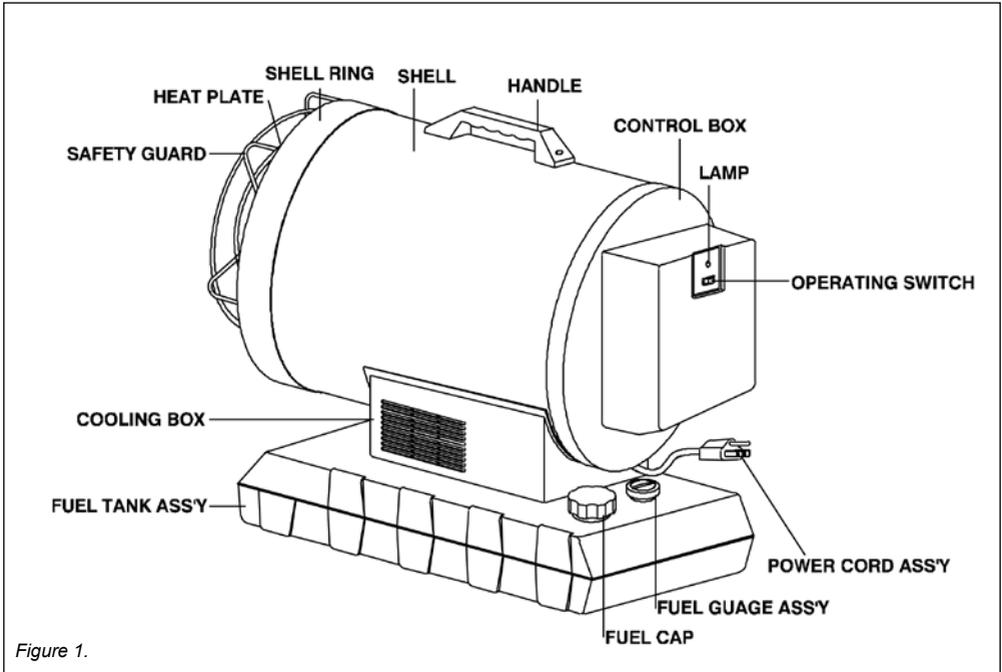
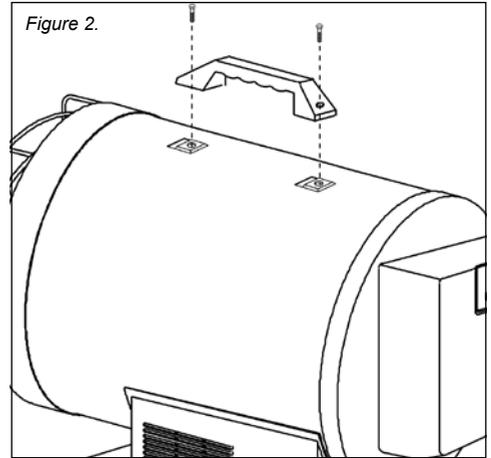


Figure 1.

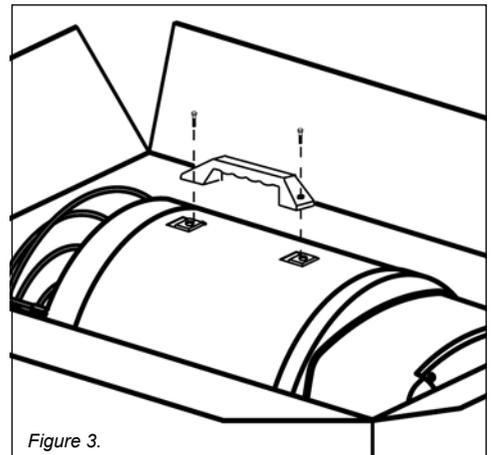


Carry Handle Assembly

1. Align holes in the upper housing with the 2 holes in the handle as shown in Figure 2.
2. Insert screws and tighten firmly.



- i** Attach the handle while still in the box for easier unpacking. (See Figure 3)

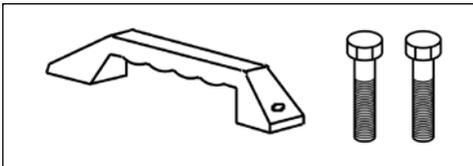


ASSEMBLY INSTRUCTIONS

Remove the heater and all packaging materials from the shipping carton.

i Save the box and packaging materials for future storage.

What's in the box?



1 x Carry Handle, 2 x Black Screws

Tools Required:

Phillips Head Screw Driver

OPERATION

Fueling The Heater

Kerosene or Diesel

This heater is multi-fuel rated. Kerosene or diesel may be used, or a mixture of the two.

Fuel Set - Fuel Conditioner

For optimal performance, it is strongly suggested that Fuel Set fuel conditioner be used in addition to fuel. Diesel contaminants such as diesel bug and water in the fuel may make the heater perform poorly. Add the recommended dose of Fuel Set to every tank of fuel when filling to ensure the RPH70R performs at it's peak.



DANGER: *Never refuel this heater while it is hot or operating. Fire or explosion could result.*



CAUTION: *Never fill the fuel tank indoors. Always fill the tank outdoors. Be sure that the heater is on level ground when fueling, and never overfill the tank.*



WARNING: *Do not use gasoline or crankcase drainings.*

NEVER use fuel such as, benzene, alcohol, white glass, camp stove fuel, paint thinners, or other oil compounds in this heater.

THESE ARE VOLATILE FUELS THAT CAN CAUSE A FIRE OR EXPLOSION.

NEVER store Kerosene in the living space. Kerosene should be stored in a well ventilated area outside the living area.

NEVER store Kerosene in direct sunlight or near a source of heat.

NEVER use Kerosene that has been stored from one season to the next. Kerosene deteriorates over time. OLD Kerosene WILL NOT BURN PROPERLY IN THIS HEATER.



Kerosene should only be stored in a blue container that is clearly marked "Kerosene." Never store Kerosene in a red container. Red is associated with gasoline.

Ventilation

There is a risk of indoor air pollution and Carbon monoxide poisoning. Use heater only in well ventilated areas.

Refer to Safety Information on pages 3 - 4 for information about Carbon Monoxide Poisoning.

Always provide a fresh air opening in the heated space of at least 2.8m² (3 sq. ft) for each 100,00 Btu / Hr. of heater output. Provide a larger opening if more heaters are being used.



DANGER: *Carbon monoxide poisoning may lead to death!!*

Minimum ventilation opening required:

1951cm² - 2.1ft²

Starting The Heater (Ignition)

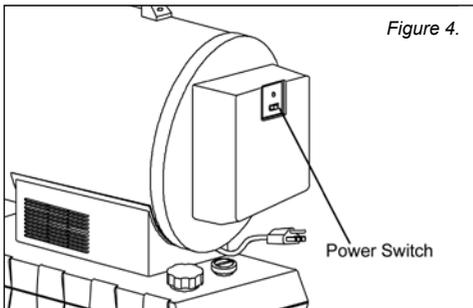
1. Fill the tank with Kerosene or other approved fuel until needle on fuel gauge points to “F”.
2. Replace fuel cap and tighten firmly.
3. Connect the heater to a three prong (grounded) power source. You must use a three prong (grounded) extension cord that is at least 1.8m long.



NOTE: *On first ignition or after refueling, you may hear a grinding sound just before ignition. This is the fuel pump removing the air from the fuel line. Your heater will start up within seconds. If it does not start repeat start-up procedures with fuel gauge reading at least 1/2 tank.*



NOTE: *The electrical components of these heaters are protected by a fuse mounted in the PC board. If the heater fails to ignite, check this fuse first and replace if necessary. Also check the power source to be sure the proper voltage is being provided to the heater.*



1. Complete previous steps 1 - 3.
2. Push the power switch to the “ON” position. The power indicator lamp will light and heater will ignite. (See Figure 4)

Stopping The Heater (Cool Down)

1. Turn the power switch to the “OFF” position. Combustion will stop and the Cooling Cycle will begin, this will take approx. 7 mins.

When the Cooling Cycle is complete the fan will stop running and it will be safe to unplug the heater.



NOTE: *Unplugging the heater before the Cooling Cycle has been completed may cause overheating, possible damage to the heater and heat plate.*

Restarting The Heater

1. Wait ten seconds after Cooling Cycle has been completed.
2. Follow all start-up procedures above.



WARNING: *DO NOT disconnect heater from power source before cooling cycle has been completed.*

MAINTENANCE

⚠ WARNING: *Never service heater while it is plugged in or hot.*

Do not tamper with the unit. Have an experienced serviceman make any necessary adjustment or repairs.

We suggest following a maintenance schedule as follows:

Fuel & Fuel Tank

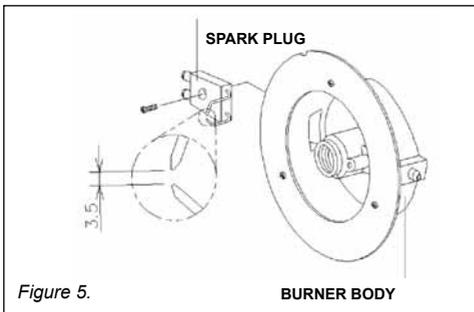
i *Follow the long term storage instructions on the following page to flush the tank.*

Flush tank every 200 hours of operation or as needed. **DO NOT** flush with water, use fresh kerosene only.

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" (3.5mm). (See Figure 5)



Nozzles

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. (See Figure 6)

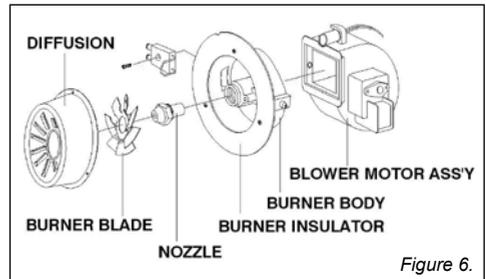


Figure 6.

Filters

The fuel filter and oil filter 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 Figure 7)

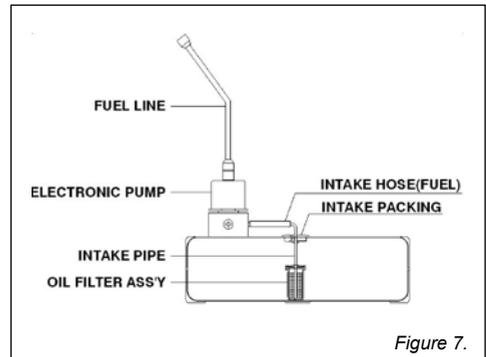
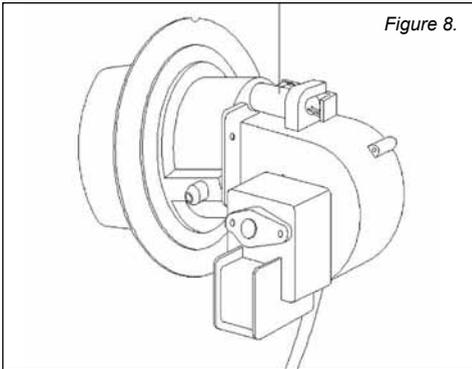


Figure 7.

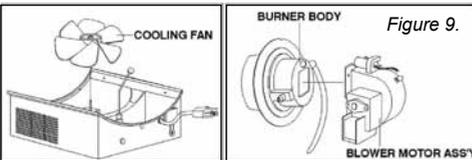
Photocell

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. Be certain to reinstall the photocell in proper position as shown below. (See Figure 8)



Fan Blades

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 condensed air. (See Figure 9)



Storage

Long Term Storage

1. Unscrew the fuel cap.
2. Using an approved siphon, remove the kerosene or diesel.
3. Using a small amount of kerosene or diesel, rinse and swirl the fuel inside the fuel tank

 **NOTE:** *Never mix water with fuel. It will cause rust inside the tank.*

4. Empty the tank completely.

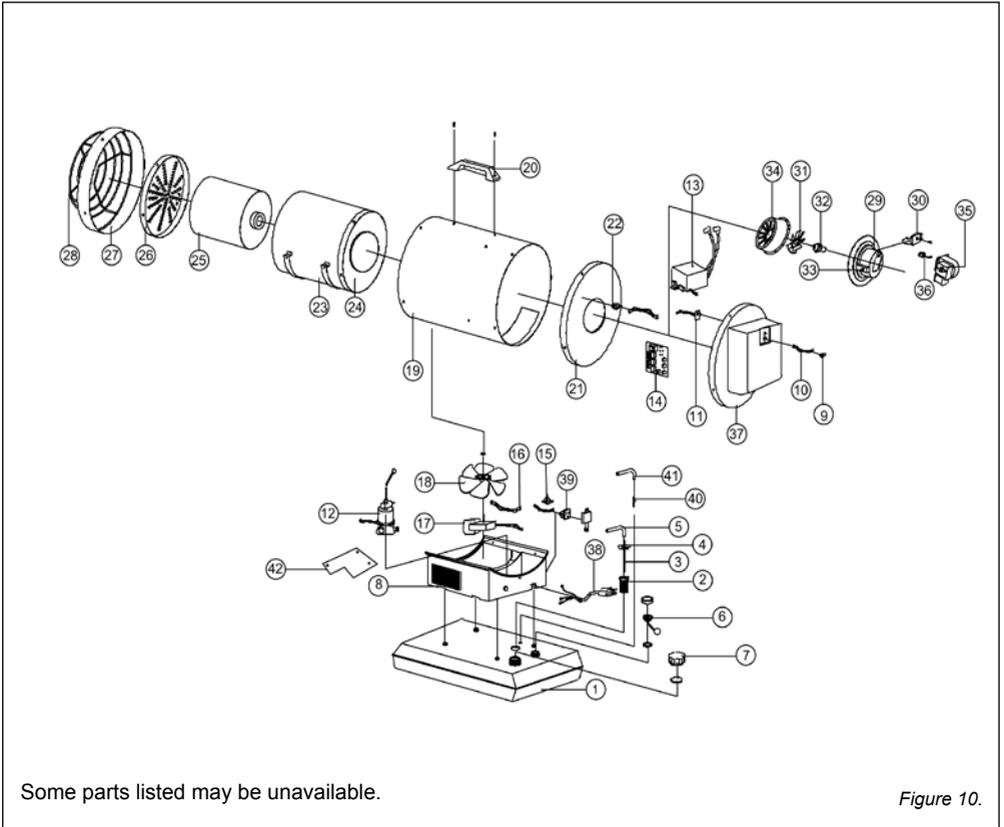
 **IMPORTANT:** *Never store leftover kerosene between seasons, using old fuel can damage heater.*

4. Store heater in a dry, well ventilated area.
5. 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.

TROUBLESHOOTING

PROBLEM (SYMPTOMS)	POSSIBLE CAUSE	SOLUTION
Heater fires, but shuts down after a short period of time.	<ol style="list-style-type: none"> 1. Dirty Fuel Filter. 2. Nozzle Dirty. 3. Photocell Dirty. 4. Photocell not installed properly. 5. Photocell Defective . 6. Improper electrical connection between Circuit Board and Photocell. 7. Cooling Fan is obstructed 	<ol style="list-style-type: none"> 1. Clean/replace Fuel Filter. 2. Clean/replace Nozzle 3. Clean/replace Photocell . 4. Adjust Photocell position. 5. Replace Photocell. 6. Check wiring connections (See Wiring Diagrams, Page 11). 7. Check to be sure cooling fan is not obstructed.
Heater will not operate, or motor runs for short time.	<ol style="list-style-type: none"> 1. No Kerosene/ diesel in fuel tank. 2. Corroded Spark Plug or incorrect plug gap. 3. Dirty Fuel Filter. 4. Dirty Nozzle. 5. Moisture in Fuel/Fuel Tank. 6. Improper electrical connection between Transformer and Circuit Board. 7. Transformer Wires not connected to Spark Plug. 8. Defective Transformer. 	<ol style="list-style-type: none"> 1. Fill tank with fresh Kerosene/ diesel. 2. Clean/replace Spark Plug. 3. Clean/replace Fuel Filter. 4. Clean/replace Nozzle. 5. Rinse out fuel tank with clean fresh Kerosene/ diesel. 6. Inspect all electrical connections. (See Wiring Diagrams, Page 11). 7. Re-attach Transformer wires to Spark Plug. 8. Replace Transformer.
Fan does not operate when heater is plugged in and Operating Switch is in the "ON" position.	<ol style="list-style-type: none"> 1. Broken electrical connection between Circuit Board and motor. 2. Not enough amps available to power heater. 	<ol style="list-style-type: none"> 1. Inspect all electrical connections on Wiring Diagrams (Page 11). 2. Use a new extension cord or try another electrical socket.
Heater makes grinding noise.	<ol style="list-style-type: none"> 1. Air in fuel pump. 	<ol style="list-style-type: none"> 1. Sound will stop after 3 seconds. If grinding sound continues, add fuel to tank.
Heater does not turn on and the lamp is not lit.	<ol style="list-style-type: none"> 1. Temperature limit sensor has overheated. 2. No electrical power. 3. Fuse break down. 4. Improper electrical connection between Temperature Limit Sensor and Circuit Board. 	<ol style="list-style-type: none"> 1. Push Operating Switch to "OFF" and allow heater to cool for 5 minutes. Push Operating Switch back to "ON". 2. Check power cord and extension cord to insure of proper connection. Test power supply. 3. Check/replace Fuse. 4. Inspect all electrical connections. (See Wiring Diagrams, Page 11).
Poor combustion and / or soot production.	<ol style="list-style-type: none"> 1. Pump Pressure. 2. Poor fuel quality. 	<ol style="list-style-type: none"> 1. Be sure pump pressure is adjusted correctly. 2. Be sure Kerosene/ diesel is not old or contaminated. 3. Add Fuel Set Fuel Conditioner.

PARTS LIST



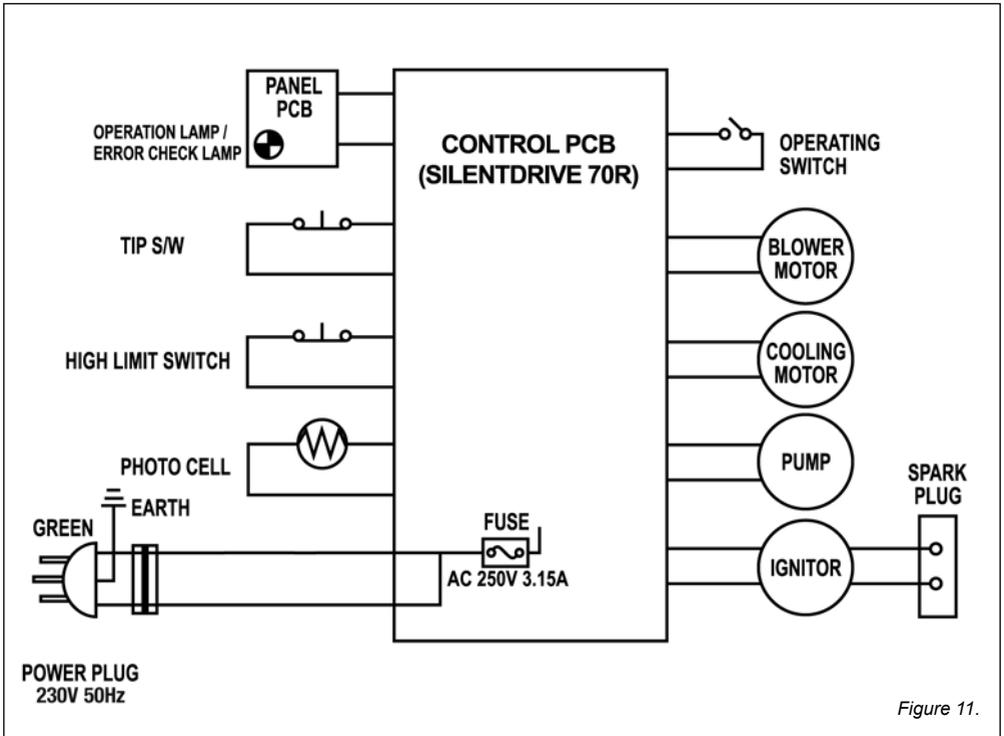
Some parts listed may be unavailable.

Figure 10.

Item #	Description
1	Fuel Tank Assembly
2	Oil Filter Assembly
3	Fuel Pipe
4	Fuel Packing
5	Fuel Hose
6	Fuel Gauge Assembly
7	Fuel Cap Assembly
8	Cooling Fan Housing
9	Operating Switch
10	Operating Switch Wire Assembly
11	Rear PCB Assembly
12	Electronic-Pump Assembly
13	Ignitor
14	Main PCB Assembly
15	Tip-Over Sensor
16	Tip-over Sensor Wire Assembly
17	Cooling Motor Assembly
18	Cooling Fan
19	Shell
20	Handle
21	Shell Insulator

22	Temperature Limit Switch
23	Chamber Assembly
24	Chamber Insulator
25	Ceramic Fibre
26	Heat Plate
27	Shell Ring
28	Safety Guard
29	Burner Body
30	Spark Plug
31	Burner Blade
32	Nozzle
33	Nipple
34	Diffusion Cap
35	Blower Motor Assembly
36	Photocell Assembly
37	Back Cover
38	Power Supply Cable Assembly
39	Electrical Outlet Assembly
40	Return Pipe
41	Return Hose
42	Electronic Pump Bracket

WIRING DIAGRAM



WARRANTY

To validate your warranty, register your product online at www.remingtonpower.co.nz

Whilst every effort is made to ensure your complete satisfaction with this tool, occasionally, due to the mass manufacturing techniques, a tool may not live up to our required level of performance and you may need the assistance of our service department.

This product is warranted for a 12 month period from the date of the original purchase. If found to be defective in materials or workmanship, the tool or the offending faulty component will be replaced free of charge with another of the same item. A small freight charge may apply. Proof of purchase is essential.

We reserve the right to reject any claim where the purchase cannot be verified. This warranty does not include damage or defects to the tool caused by or resulting from abuse, accidents or alterations. It also does not cover any bonus items or included accessories. Only the heater is covered under this warranty.

Please ensure that you store your receipt in a safe place. Conditions apply to the above warranty.

1. **DURATION:** The manufacturer warrants that it will repair or replace, at no charge for parts or labour, the Remington Heater, if proven defective in material or workmanship, during the following time period(s) after date of original retail purchase:

For 1 Year:

This RPH75R Remington Heater

2. **WHO GIVES THIS WARRANTY (Warrantor):**

EUROQUIP NEW ZEALAND
& EUROQUIP AUSTRALIA
www.euroquip.co.nz

3. **WHO RECEIVES THIS WARRANTY (Purchaser):**

The original purchaser of this Remington Heater

4. **WHAT IS COVERED UNDER THIS WARRANTY:**

Defects in material and workmanship which occur within the duration of the warranty period.

5. **WHAT IS NOT COVERED UNDER THIS WARRANTY:**

A. Implied warranties, including those of merchantability and FITNESS for a particular purpose are limited in duration to this express warranty. After this period, all risks of loss, from whatever reason, shall be on the purchaser.

B. ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE OR MALFUNCTION OF THIS PRODUCT.

C. This warranty does not apply to any accessory or consumable items included with the product which are subject to wear from usage; the repair or replacement of these items shall be at the expense of the owner. These items include, but are not limited to: sparkplugs, seals, o-rings, nozzles, tuning costs, wheels, tyres, bearings, parts, etc. In addition, this warranty does not extend to any damage caused by the untimely replacement or maintenance of any of the previously listed CONSUMABLE parts.

D. Any failure that results from accident, purchaser's abuse, neglect or failure to operate products in accordance with instructions provided in the owner's manual(s) supplied with the product.

E. Pre-delivery service, i.e. assembly and adjustment.

6. **RESPONSIBILITIES OF WARRANTOR UNDER THIS WARRANTY:** Repair or replace, at Warrantor's option, products or components which have failed within duration of the warranty period.

7. **RESPONSIBILITIES OF PURCHASER UNDER THIS WARRANTY:**

A. Please call your re-seller or the number listed above for warranty assistance.

B. Provide dated proof of purchase and maintenance records.

C. All generators must be delivered or shipped to the nearest Service Agent or re-seller. Freight costs, if any, must be borne by the purchaser.

D. Use reasonable care in the operation and maintenance of the products as described in the owner's manual(s).

E. No warranty costs incurred will be considered for, or covered if Euroquip has not been contacted and prior permission for repair / replacement has been granted.

8. **WHEN WARRANTOR WILL PERFORM REPAIR OR REPLACEMENT UNDER THIS WARRANTY:**

Repair or replacement will be scheduled and serviced according to the normal work flow at the servicing location and depending on the availability of replacement parts.



Congratulations on your new Remington product. We are proud to have you as our customer and will strive to provide you with the best service and reliability in the industry. This product is backed by our extensive warranty and service network. Please contact your local agent or submit a service case online for fast response at www.remingtonpower.co.nz and find the form under the service tab.