CORONA RX

SPACE HEATERS
TRIPLE-CLEAN

REDUCED ODOUR
CLASS C1 PARAFFIN OR TOZANE LIQUID FUEL

TESTED AND APPROVED TO BS 3300 : 1985
# SPARE PARTS LIST

1. Top-plate
2. Handle
3. Fuel Tank Access Door
4. Front Panel
5. Control Panel
6. Base
7. Fixed Tank
8. Wick Holder
9. Wick
10. Wick Guide Packing
11. Wick Guide
12. Wick Guide and Fixed Tank
13. Fuel Tank Pin
14. Ignition Lever Knob
15. Ignition System
16. Wick Control Lever Knob
17. Ignition Glow Plug
18. Battery Case
19. Burner Chimney
20. Glass Burner Cylinder
21. Fuel Feeding Cap
22. Fuel Tank
23. Automatic Shut-Off Device
24. Guard Grille
25. Catalyst Set (NOT UK models)
26. Air-sensor
27. Micro Motor
28. Micro switch
29. Air Sensor Light (RX 27 only)
30. Catalyst (NOT UK models)
31. Right Handle
32. Quick Stop Device
33. Combustion Cylinder Handle
34. « Hand Clean » tank
35. Ignition Glow Plug (not illus.)
36. Floor Fixing Clips (not illus.)
37. Syphon Pump (not illus.)

2 batteries type R20/1.5V not included.
2. ADVICE & REMARKS

1. Any tampering with or modification to the safety system is prohibited. Apart from invalidating the guarantee, this would risk causing a failure of the system which is there for your safety.

2. Use only uncontaminated PARAFFIN (Kerosene). Class C1 in accordance with BS 2869 C1, or TOZANE Fuel. When filling the fuel tank be certain to wipe away any fuel spilled on the exterior of the tank or the heater cabinet.

3. This heater must not be used in rooms which are hermetically sealed, or moving vehicles, such as caravans, boats, passenger compartments of vehicles etc.

4. Always maintain a minimum distance of 1 meter from other objects. Use the heater with good sense. Do not place it near to combustible materials such as furniture, draperies and clothing. Example: Back of heater to wall 8” nearest objects to sides of heater 24”, and to front of heater not nearer than 36”.

5. Use the heater in a properly ventilated room that is free of inflammable vapours and high dust conditions.

6. Do not place the heater in windy or draughty locations.

7. In order to avoid incomplete and bad combustion, place heaters so that fresh air inlets, and outlets for combustion gases are not obstructed.

8. ENSURE ADEQUATE VENTILATION. For example, in a modern home, insulated to current standards:
   - Use ONLY in a room with an openable window or external door, plus a permanent vent of minimum size 155cm² for 3kW, or 210cm² for 4 kW.
   - Do not use the heater in too small a room:
     - CORONA RX27: min 108 m³
     - CORONA RX 23: min 92 m³
     - CORONA RX 25: min 100 m³

9. Be sure that the heater is sitting on a level surface during operation. Two clips are supplied for fixing to the floor where required.

10. When operating, the heater becomes hot. Avoid touching the heater when it is operating. Keep at away from children and household pets. Do not move or refuel when hot.

CAUTION: NEVER USE FUELS OTHER THAN RECOMMENDED FUEL. Avoid accidental introduction of water into fuel container. Also, DO NOT USE containers that have previously held petroleum, methylated spirits of chemical. Keep your main stock of fuel in a clean container, and store it in a cool, dry, well ventilated place outside the living area. Do not store in direct sunlight.

DO NOT USE YOUR HEATER IN ROOMS SITUATED BELOW FLOOR LEVEL

NEVER USE PETROL!
3. ASSEMBLING YOUR CORONA 23, 25 AND 27

Prepare the space heater for use by carrying out the instructions in the following order:

1. Unpacking
   Remove the heater from the cardboard box.
   Remove the sticky tape from the guard grille and open it as described below.
   Slide the catch on the upper right sight of the unit by pushing it in the direction of the arrow (1).
   Open the grille by lifting it up in the direction of the arrow (2).
   (Reverse: the process to install the grille.)
   Open the packing material from the burner cylinder.
   Open the lid of the fuel tank compartment and remove the protection material.

2. Fitting the burner cylinder
   Place the burner cylinder on the circular wick guide.
   Turn the burner cylinder handle half way to the left and then half way to the right until the burner cylinder is correctly positioned in the circular wick guide.

3. Fitting the batteries
   Remove the battery case cover then place 2 batteries in the battery case at the rear of the space heater. Make sure that you respect the polarities +/- as indicated in the drawing.
   Close the battery case cover and the battery case protection (except type 1).
   2 batteries type R20/1.5V not included.

IMPORTANT: DANGER:
- Never remove the batteries while the heater is operating
- Make sure of the quality of your batteries
- Never light your heater with matches or a lighter
4. FILLING THE FUEL TANK

We advise you to use TOZANE FUEL for the cleanest combustion

1. More the 95 % of problems are due to using the wrong type of feel for the Corona space heater. These problems are not covered by our warranty.

2. Use only uncontaminated Class C1 PARAFFIN (Kerosene) in accordance with BS 2869 or TOZANE fuel, as recommended by CORONA.
(Note: Be sure you have tightened the vacuum release knob on the syphon pump bulb by fuming it CLOCKWISE. After the fuel tank has been properly filled, turn the vacuum release knob COUNTER-CLOCKWISE to drain the syphon.)

3. Your container should be clean and empty if you fill it at a retailer. No impurities or other liquids (water, diesel, gas, etc) should remain. You should keep a container specifically for filling your heater.

4. Presence of fuel in the tank will be displayed by the gauge moving into the black. Stop filling when the fuel level reached the meddle of the gauge.

5. Do not fill the fuel tank beyond the centre of the fuel gauge. DO NOT OVERFILL. Replace the fuel feeding cap and hand-tighten. Turn the fuel tank UPSIDE DOWN and check for any fuel leakage around the cap. The fuel feeding cap will prevent the flow of paraffin through the centre hole.

6. When the level of fuel in the tank goes down, the fuel gauge will indicate this. The fuel in the tank will be completely used In about three hours burning after the fuel gauge reaches the halfway level.

7. Store your fuel away from the sun and from other heat sources. Fuel which has been stored too long loses its purity and thus its efficiency.

8. Always turn off your heater before filling the tank. Never remove the tank while the burner is lit.

NEVER USE PETROL!
5. PREPARING TO LIGHT THE HEATER

Make sure that the heater is standing on a level surface. If the heater is not level, the auto-
matic shut-off device may be prevented from working.

6. KNOCKS

Push the ignition lever downwards until it stops. The Automatic shut-off device (in case of
knocks) is ready to work. Do not light the heater when the air-sensor lamp is still on (RX
27 only). You will hear only the buzz of the motor operating on the RX 25.

7a. THE WICK

The first time you use a wick, let it absorb liquid fuel for about one hour before lighting.
Only use uncontaminated Class C1 PARAFFIN (kerosene), free of any impurities, in ac-
cordance with BS 2869, or TOZANE Fuel, in order to ensure that your wick lasts for a
long time.
If you find that the wick is abnormally hard, if it is blocked or burning abnormally, replace
it in accordance with instructions (see section 7c).

A non original wick, that does not have the original specification, can cause damage
to the combustion quality with risk of release of carbon.

Guarantee is not valid without the use of original wicks.

7b CLEANING THE WICK

At regular intervals let the heater burn until the tank is completely dry, and allow the
flame to consume the fuel remaining in the tank. This “burning dry” will keep the wick
flexible, and also remove any accumulation of tar on the top burning edge of the wick.

To avoid odour, the heater should be allowed to 'burn dry' in a well ventilated area or out-
doors. 'Burning dry’ does not harm the wick material.

After 'burning dry', take a few minutes to wipe the surrounding parts with a soft cotton
cloth, and/or vacuum the wick area to remove any loose soot.

If a clean burning edge to the top of the wick cannot be obtained after burning dry twice in
a row, then a new wick is probably required.
7C. WICK REPLACEMENT

Note: Use only a genuine CORONA or PETROWICK replacement wick.

A) Remove batteries. Press the shut-off button to lower the wick. Open the grille guard and take out the burner chimney. Pull out the ignition lever knob and the wick control lever knob, loosen and take two screws off the lower part of the front plate, and remove the front plate by pulling its lower part towards you.

B) Take out the cartridge tank, remove two screws at the back of the heater cabinet, and lift the cabinet off the base plate, move to one side, taking care not to damage the Air Sensor Connections (where fitted).

C) Remove the wick guide ring by taking the screw out.

   Note: Use care not to disturb the three catches of the wick guide ring.

D) Unfasten the three nuts that hold the wick guide in place. Remove the wick guide by pulling it up, taking care not to damage the ignition connections.

E) Pull the wick raising support bracket to the right and remove the wick and the wick holder from the wick guide tube.

F) Detach the old wick from the wick holder and fit a new one in it (see later).
TO ATTACH THE WICK

A) Adjust the gap of the wick to fit the wick in the raising bracket of the wick holder.

NOTE: The misalignment of the wick gap with the wick raising bracket may result in damage to the glow plug or its failure to function.

B) Put the wick fitting (three) into the recesses (three) in the wick holder.

C) Press the wick to attach to the wick holder catches, ensuring it fits evenly against the inner wall of the holder. Use care not to develop wrinkles and bulges.
D) Put the wick into the guide tube while keeping the wick raising support bracket pulled on the right. Fit the spindle pin into the wick raising bracket hole (beneath wire). Then refit the wick raising support bracket back into the left-hand side, as picture above.

![Diagram of wick and support bracket]

E) Put the wick guide back in its original place and fasten it with three nuts in such a way as to make an even opening between the wick guide and the gap.

Note: Before installing the wick guide, check it to make sure that the wick guide packing is placed in the right position.

![Diagram of wick guide and gap]

F) Check the wick to make sure that it moves up and down smoothly and let the pendulum fall to check that the automatic shut-off system functions properly.

**IMPORTANT**: If the wick fails to move up and down smoothly, remove it.

G) Raise the wick to the full - 10.5 + - 1mm (approx 13/32") above the holder. If the wick cannot be raised to this height, repeat the above-mentioned procedure to attach it correctly.

![Diagram of raised wick]

H) Replace the wick guide ring on the assembly and fasten it with the screw.

I) Install the heater cabinet, front plate, and two lever knobs respectively.

J) Recheck wick height after reassembly and check that the wick adjuster and extinguishing device are operating normally before using your heater.

K) Replace the burner chimney and the cartridge tank in the heater cabinet.

L) Before ignition, wait at least 30 minutes to allow the wick to absorb sufficient amounts of fuel.
8. LIGHTING THE HEATER

Note: Before you light the heater, check the following points:

The burner cylinder must be properly positioned. Rotate it by pushing the handle two or three times from left to right to make sure it is correctly fitted.

The air-sensor light must be off (RX 27 only).

When you use the heater for the first time, odours may persist for a certain time after lighting. This is normal, as oil and protective grease in the heater have to be burnt off. After turning off the heater, wait at least five minutes before lighting the heater again. If the burner cylinder has not had time to cool down, lighting to heater again may result in odours being given oof.

Slowly push the ignition lever downward until it stops. (Wick lowering device moves down simultaneously). The wick will rise and the heater ignites automatically. Check visually that the heater is alight. Slowly bring the ignition lever to its original position. After having carried out the ignition procedure, there may be some white smoke coming out of the ignition zone, without the heater being lit. If this happens, put the ignition lever part way through its traverse and the heater will start to operate. This operation must be done slowly and gently.

CAUTION/ NEVER LIGHT YOUR HEATER WITH MATCHES OR A LIGHTER

NEVER USE PETROLE!
9. CHECK FOR CORRECT BURNING  
(Control of the heating temperature)

Combustion can be optimized within a range of 10% by adjusting the height of the flame.

If despite the regulation, or if the heater burns unevenly (its color is not uniform), grasp the lever on the combustion cylinder and agitate it gently once or twice. If the problem persists, stop the heater and contact your retailer.

Simultaneously using a fan or a humidifier, may cause the flame to become slightly pink. This is normal. Never touch the automatic ignition device when the heater is in use. By lowering it you will make the flame rise if you push it too strongly, you may damage the lighting filament or even break it.

10. TURNING OFF YOUR HEATER

To turn off the heater push the “automatic shut-off button”. The anti-topple, automatic shut-off device will automatically be activated, it will lower the wick very quickly and also extinguish the flame.

It is possible for excess accumulation of carbon and other deposits on the wick to prevent proper operation of the automatic shut-off device. Always make sure to visually check that the automatic shut-off device has operated properly, to switch off the heater.

AIRSENSOR DETECTOR

This heater has been designed with an Air sensor device. Abnormal conditions of use of your heater (bad ventilation or too small a room) will automatically trigger the shut-off of your heater and the Air sensor light will come on (RX 27 only). Do not to try to re-light your heater if the Air sensor light stays on. The humming noise of the motor will indicate if the automatic shut-off device is working.
11. REPLACING THE IGNITION GLOW PLUG

Check that failure to ignite is not a result of weak batteries. If the heater will not light, the ignition glow plug may need to be replace even though there is some glow in the plug.

To replace the ignition plug:

A) Remove batteries.

B) Detach the grille guard and the burner chimney.

C) Take the screw off the wick guide ring cover, and open the cover.

D) Remove the old ignition glow plug by turning it to the left.

E) Put a new ignition glow plug into the socket with filament guard side down.

F) Check the cover to make sure that its catch is put correctly in the wick guide ring rectangular hole. Replace it by fastening it with the screw.

G) Replace the burner chimney, the grille guard, and batteries in the heater.
12. TROUBLE SHOOTING GUIDE

Below are some common, minor problems that may temporarily impair the efficient operation of your heater. Most can be easily and quickly corrected.

<table>
<thead>
<tr>
<th>Possible cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batteries may be flat or weak</td>
<td>Replace the batteries.</td>
</tr>
<tr>
<td>Ignition plug filament may be bent or broken</td>
<td>Replace ignition plug.</td>
</tr>
<tr>
<td>Wick is too low, too high or incorrectly installed</td>
<td>Use wick adjustment knob to adjust wick for proper exposure. If adjusting the wick fails, reinstall wick to proper height.</td>
</tr>
<tr>
<td>Burner is not properly positioned</td>
<td>Rotate burner right and left to position properly.</td>
</tr>
<tr>
<td>Liquid fuel is of poor quality or contaminated with water</td>
<td>Replace contaminated or poor quality liquid combustible for mobile heater supply.</td>
</tr>
<tr>
<td>Wick may be dirty</td>
<td>Clean wick, replace if necessary.</td>
</tr>
<tr>
<td>Wick guide assembly may be damaged</td>
<td>Check wick assembly for proper seating and general condition. Replace if necessary.</td>
</tr>
<tr>
<td>Wick is not correctly seated in wick assembly</td>
<td>Reinstall wick correctly in wick assembly.</td>
</tr>
<tr>
<td>Air sensor is activated</td>
<td>Air your room, the temperature near your space heater is too high, refresh the room or/and change the space heater position.</td>
</tr>
</tbody>
</table>
CORONA ROLF RX 23 and 27 LIQUID FUEL
RADIANT/CONVECTOR SPACE HEATERS

Space heaters certified to

BS 3300 : 1985

NB. The Oil Heaters (Safety) Regulations 1977, enforced by Statutory Instrument No. 167, 1977, remain in force. These require Paraffin & Oil Heaters for household use to conform to BS 3300 :


These models (and the RX 25) also conform with equivalent French and German standards. The RX 25 performance characteristics are tested to BS 3300 : 1985, but the “Hot Top” debars full conformity : the RX 25 is NOT sold for use in the home.

All Corona ROLF Heaters conform with the requirements of the EEC Directive 89/336/ CEE ‘Electro Magnetic Compatibility’, and accordingly carry the CE mark.

FUEL advice:

BS 3300: 1985 includes a range of performance tests - these designate BS 2869 Class C1 Paraffin as the test fuel. BS 3300 : 1985 also lays down labelling and marking requirements which specify BS 2869 Class C1 Paraffin, identified by the symbol:

CORONA recommends TOZANE Reduced Odor Liquid Fuel as an alternative fuel, because of the minimal odor and taint, and the higher flash point when compared to C1 Paraffin. ROLF is the brand name of a specially modified kerosene which has been tested under all conditions laid down in BS 3300 : 1985, and has been proved to give it least equivalent performance to BS 2869 Class C1 Paraffin, but without odor or taint.

NEVER USE PETROL!
# CORONA SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>RX 27</th>
<th>RX 23</th>
<th>RX 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE</td>
<td>2</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>BRANDNAME</td>
<td>CORONA</td>
<td>CORONA</td>
<td>CORONA</td>
</tr>
<tr>
<td>HEATER TYPE</td>
<td>PORTABLE SPACE HEATER TYPE</td>
<td>PORTABLE SPACE HEATER TYPE</td>
<td>PORTABLE SPACE HEATER TYPE</td>
</tr>
<tr>
<td>HEATING OUTPUT</td>
<td>2700 W</td>
<td>2300 W</td>
<td>2500 W</td>
</tr>
<tr>
<td>FUEL CONSUMPTION RATE</td>
<td>200 g/h (0.261 L/h)</td>
<td>192 g/h (0.240 L/h)</td>
<td>206 g/h (0.260 L/h)</td>
</tr>
<tr>
<td>CONTROL HEATING TIME</td>
<td>+/- 14.5 h</td>
<td>+/- 16.6 h</td>
<td>+/- 15.5 h</td>
</tr>
<tr>
<td>FUEL TANK CAPACITY</td>
<td>4.2 l</td>
<td>4.2 l</td>
<td>4.2 l</td>
</tr>
<tr>
<td>DIMENSIONS (HxWxD) (mm)</td>
<td>495x448x314</td>
<td>495x448x314</td>
<td>495x448x314</td>
</tr>
<tr>
<td>NET WEIGHT</td>
<td>8.3 kg</td>
<td>8.2 kg</td>
<td>8.2 kg</td>
</tr>
<tr>
<td>GROSS WEIGHT</td>
<td>9.6 kg</td>
<td>9.5 kg</td>
<td>9.5 kg</td>
</tr>
<tr>
<td>COUNTRY OF ORIGIN</td>
<td>JAPAN</td>
<td>JAPAN</td>
<td>JAPAN</td>
</tr>
<tr>
<td>AIR SENSOR LIGHT</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>FUEL TANK TYPE</td>
<td>LIFT-OUT CARTRIDGE</td>
<td>LIFT-OUT CARTRIDGE</td>
<td>LIFT-OUT CARTRIDGE</td>
</tr>
<tr>
<td>AUTOMATIC SAFETY SHUT OFF SYSTEM</td>
<td>BUILT-IN</td>
<td>BUILT-IN</td>
<td>BUILT-IN</td>
</tr>
<tr>
<td>COMPLIED TO STANDARD</td>
<td>CE + BS</td>
<td>CE + BS</td>
<td>CE</td>
</tr>
<tr>
<td>CATALYST</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
<tr>
<td>QUICK CONTROL</td>
<td>NO</td>
<td>NO</td>
<td>NO</td>
</tr>
</tbody>
</table>
ESSEGE SA
Chaussée de Waterloo, 1589D
1180 BRUXELLES
BELGIUM
Fax. 0032 2 375 07 28

E-Mail. info@essege.com