

OPERATING INSTRUCTIONS



ROCKET - PS23B & PS23R
ROCKET TURBO - PS25B & PS25R

Please read these instructions fully before operating your Rocket Smoke Machine.

GENERAL INFORMATION

1. The Rocket smoke machines are designed for use only with the appropriate PEA SOUP "Rocket Fuel" smoke fluid aerosols. **YOUR MACHINE WILL BE DAMAGED IF ANY OTHER AEROSOL IS USED.**
2. **DO NOT COVER OR OBSTRUCT LOUVRES IN ANY WAY.** Use machine only in well ventilated areas.
3. When smoke is required to be hosed away from the machine, a ducting adaptor (available from Pea Soup) must be used. This acts as an adaptor for 75 / 50 / 25 mm bore flexible hose and also serves to remove any large droplets of fluid from the smoke that would otherwise collect in the hose. At regular intervals the ducting adaptor must be detached from the machine and emptied of fluid.
4. Observe usual precautions regarding the storage and use of aerosols ie Protect from sunlight, do not expose to temperatures exceeding 50°C. Do not pierce or burn even after use. Do not spray on a naked flame or any incandescent material. Store aerosols with valve downwards.

PREPARATION

1. Fit suitable fused plug to mains lead (5 amp fuse for 240v, 10 amp fuse for 110v). For 2200w "TURBO" units 10A (230v) or 20A (110v)
2. Check that aerosol contains fluid. Clean top of aerosol if necessary.

OPERATION

1. Check *Power Switch* on machine is in the OFF position. Connect mains lead to machine.
2. Plug mains lead into supply.
3. Switch machine's *Power Switch* to the ON position. The *Red 'Power Indicator' Light* will illuminate. After approximately 5 minutes the *Green 'Ready' Light* will illuminate, indicating that the correct working temperature has been reached and that smoke can be produced. For optimum performance, it is recommended that the machine is left for an additional 10 minutes before smoke is produced. **NOTE: Do not attempt to generate smoke until the Green 'Ready' Light has illuminated for the first time, otherwise damage may be caused to your machine.**
4. A threaded *aerosol insert* can be seen in the round aerosol housing on the top of the machine. This should be checked and cleared of any foreign materials. Also check that the rubber *'O' Ring Seal* is in position and in good condition. Carefully align the aerosol's valve with this insert and tightly screw into place by turning clockwise to create an effective seal.
5. To make smoke with the Rocket - Press the large round black button near the front of the unit. Adjust smoke output volume with the gold coloured *Output Rate Control*. On the remote control model, put the *remote control's switch* into the ON (1) position. On this model both the manual *"Smoke Button"* and the separate *Remote* switch are supplied.
6. When smoke is no longer required, release the *Smoke Button* or put the *remote control's switch* to the OFF (0) position.
7. SHUT DOWN - when machine is no longer required, unscrew and remove aerosol. Turn the *Power Switch* on machine to the OFF position, removing plug from mains supply. Allow machine to cool before storing it in warm dry conditions.

OFF MAINS POWER FACILITY

Once the machine has reached working temperature for the first time (i.e. the *Green Temperature Light* has illuminated), the generator can be disconnected from the power supply and used to produce a large volume of dry smoke whilst being carried around by the operator. The amount of dry smoke that can be produced off power depends upon where the machine is in its temperature cycle when it is disconnected. For best results, one should allow the *Green Temperature Light* to come on 3 times, and disconnect the machine immediately after the *Green Temperature Light* has come on for the third time. This will have allowed the machine's heat exchanger time to stabilise, and will mean that the machine can still generate up to 2 minutes of smoke at full output within a 20 minute window after disconnection. This duration of possible dry smoke production is gradually reduced over this 20 minute period after unplugging the machine.

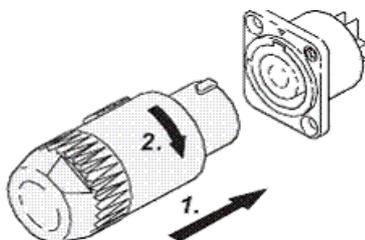
When using the machine off power, the quality of the smoke must be carefully observed by the user. As soon as the smoke from the machine starts to thin and become slightly blue in colour, stop producing smoke and reconnect the machine to the power supply until working temperature is achieved once more (i.e. until the *Green Temperature Light* illuminates). The machine may then be disconnected and used without power again.

PLEASE NOTE:

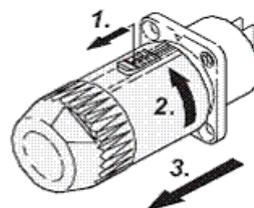
This reheating cycle is important. If it is not observed, and the machine is not reconnected to the power supply when the smoke is seen to become thin and blue, the smoke will become wet, and damage will be caused to the machine.

REMOTE CONTROL

Please note that remote control cannot be used 'Off Power'. As soon as power to the remote control is disconnected, smoke production will stop. The Remote Controlled Turbo model will make smoke in bursts as the heaters within the unit cycle.



To engage, push together and rotate clockwise until the lock clicks.



To disengage, pull back lock, rotate anti-clockwise and part.

HEALTH AND SAFETY

The smoke produced by all Pea Soup own-brand smoke generators has been rigorously tested to ensure that in normal conditions it is non toxic. Independent health and safety reports indicate that dense smoke concentrations can be entered without any serious health risk for short periods of time. However, we recommend that persons who are asthmatic or suffer from a respiratory complaint are not subjected to dense smoke concentrations, and the use of suitable PPE in the event of extended exposure to such environments. Should the artificial smoke be used in conjunction with live fires, where, by definition the potential for products of combustion to be formed from the fireplace would occur along with other hazards (unburnt propane etc), breathing apparatus should be worn. Copies of independent reports on the safety aspects of Pea Soup smoke are available on request.

MAINTENANCE

Very little routine maintenance is required for your smoke machine. If this maintenance is regularly carried out, unnecessary repair bills will be avoided.

NB - Remove plug from mains supply before undertaking any maintenance operations.

1. After each use follow instructions as in OPERATION (7)
2. After each 2 hours (approx) of smoke production, using the drill in the pin chuck supplied, carefully insert the drill into the nozzle of the heat exchanger and gently drill out by hand any deposit, to a maximum depth of 25 mm.
3. If leakage occurs - check 'O' Ring in aerosol insert for damage and replace if any sign of damage is present.
4. Periodically remove side panels and wipe away any excess smoke fluid.
5. THERMAL CUT OUT (if fitted). In the event of a fault causing overheating, the *Thermal Cut Out* trips before any further damage is done. When the *Thermal Cut Out* trips, all lights on the machine will go out. To check if the cut out has operated, leave mains supply connected and *Power Switch* in the ON (1) position. Remove left hand panel and press *Red Button* on *Cut Out*. If it clicks and the lights come ON, the cut out has operated - consult PEA SOUP. If the cut out has not operated, check supply is live and that the plug is intact.
6. HOSING - When a *Ducting Adaptor* is used in conjunction with *Flexible Tubing*, it should be periodically emptied. For permanent installations, the adaptor may be fitted with a drain tap. Where possible, hose runs should have a slight fall back to the *Adaptor*. This ensures any deposits collecting in the Hose will run back and collect in the Adaptor. The length of hose runs which may be used depends on rise, bends and falls in the system. If smoke collects in the machine's area, the hose run is too long - consult PEA SOUP for advice.

FAULT FINDING

If smoke is poor or not produced at all:

- a) Check that the *Output Rate Control* is not fully closed (if fitted).
- b) Check that the mains supply is live and fuse is intact. If power is live but not shown at machine, check all wiring is intact on machine.
- c) Check aerosol pressure by removing can from machine. Check that *Aerosol Insert* is clear of any contamination and that pin and 'O' ring are in position and undamaged. Fit a new aerosol, and go through OPERATION procedure. If smoke is produced, discard the old aerosol.
- d) If no smoke is produced, check Heat Exchanger nozzle is clear of contamination by carefully drilling with drill provided to a depth of 25 mm.
- e) If smoke is still not produced. Remove right hand side panel. Disconnect *Transfer Tube* from *Heat Exchanger Block* and leave open and pointing into a container. Fit a new Aerosol to machine and depress *Smoke Button* (Basic) or *Smoke Switch* (Remote). (On Remote, the machine must be connected to the electrical supply and must have reached working temperature). If there is a flow of fluid from the *Transfer Tube*, this indicates a blockage in the *Heat Exchanger Block*. Consult PEA SOUP.
- f) If there is no flow from the *Transfer Tube*, remove *Heat Exchanger Complete*, remove *Smoke Button Valve* and disconnect *Transfer Tube* from valve. Blow through both ways, with air or CO² to remove any contamination, refit valve. Refit *Transfer Tube*, leaving Heat Exchanger end disconnected. Screw in aerosol, operate smoke button. Check for flow of fluid from open end of Transfer Tube, and reconnect to Heat Exchanger if satisfactory.

IF FLOW IS STILL NOT PRODUCED - CONSULT PEA SOUP

INSTALLATION WARNING

Design and installation facilities are available to meet any special requirements, from advice about simple hosing of smoke to complete automatic systems. PEA SOUP cannot accept responsibility for any damage or malfunction to or by PEA SOUP smoke machines, or any consequential damage where ducting of smoke or electrical switching or any deviation from the standard machine as supplied, is carried out by anyone other than PEA SOUP LTD..

SERVICE

We recommend that your smoke generator is returned to Pea Soup or an authorised distributor (details available from Pea Soup) on an annual basis for cleaning, servicing and testing to ensure that the equipment and its resulting smoke remains in optimum condition.

CE MARKING

All Pea Soup own-brand smoke generators produced from 1st January 1996 comply with the EMC directive EN89/EEC, in that they meet the requirements of EN50081/1 and EN50081/2. (Electro Magnetic Compatibility)

For replacement 'Rocket Fuel' smoke fluid aerosols,
ducting adaptors, ducting hose and carry cases for Rocket smoke machines
please contact:

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