

Le Maitre Ltd

Fake Flame

Maintenance Routines

Le Maitre Ltd.

Fake Flame Maintenance Requirements

The Fake Flame consists of interactive sections as follows.

- 1/. The vapour producing section
- 2/. The Air control devices
- 3/. The light and colour producing devices

The vapour producing section is a module part of the Le Maitre Neutron Hazing Machine. As such it employs electromechanical parts that may at some stage require servicing. Neutron Hazer servicing data is available to enable on going maintenance for this part of the machine.

The vapour is produced by passing fluid into a small diameter stainless steel tube which is continually cycled within a defined temperature range. Air, provided by a small pump, assists in the steady flow of fluid within this heating mechanism. Depending on what fluid* is used to create the vapour, this low cost tube may need to be replaced as it gradually becomes layered with carbon deposit. It can be cleaned with a small reaming type rod, but for continued performance it is best replaced.

This tube can be inspected via the bottle replacement cover on the top surface of the machine. Replacement is best performed by removing the main cover, where access to all parts is made easy. Removal and replacement is relatively easy and is achieved by releasing four small 'set' bolts, easing off a silicon fluid supply tube, and removing a plastic cover to disconnect the thermocouple sensing device.

Under extreme conditions, the worst case scenario is that of a continually run 'blocked' pipe. This can feed fluid back past the air chamber and into the air pump valve. Should this ever occur, then these parts will need removing, cleaning, drying and replacing.

* Fluid type – Hazing Fluid is a long lasting airborne vapour, and can be used as a dual purpose display vapour and air haze. Low Fog fluid would be used where it is not desirable to have the vapour remaining in the surrounding area of use. This fluid also has the attribute of creating less deposit in the actual vapour tube.

Should servicing of the vapour section of the machine be required, please refer to the Neutron Hazer service data. (Available from Le Maitre Ltd service dept via email request and returned online)

Air Control

Two brushless fans are used for creating pressure within the system and are as such maintenance free. They are controlled by triac phase controllers, which again should not require any servicing. These fans are designed for continuous running over many years of service. When cold, on low voltage or if the bearings have worn slightly then when initially switching on at a low speed setting the fan may not rotate until a higher speed is selected, whereupon the original speed can be re-instated.

Lighting

The light bar uses 10 12V MR16 LED lamps. These LEDs are 345 LM, warm white and have a beam angle of 36°. Typical life span of these bulbs is 15000Hrs but will be reduced by thermal shock or vibration. Lamps are replaced by removing the top panel and then simply unplugging the faulty LED from its socket and replacing it with the new LED.

Colour Filter strips may fade slightly with time and require replacement. These are secured with silicon rubber stretch bands and are fitted around the end tubes of the light bar. They may be positioned at will for the desired effect.

General

Over a period of time, and again depending on the environment, natural vapour condensate might build up on the interior surfaces and devices within the main structure. When replacing fluid, it is good practice to check for this, and if necessary undertake a cleaning regime. All condensate will be water based, therefore a damp cloth followed by a dry cloth clean, will re-establish initial working conditions.