

Radiance Hazer Operator's Manual



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Please Read Carefully Before Operating

Introduction

The Radiance Hazer is a compact unit for producing a resilient light enhancing haze quickly. Adjustable output allows for the venue to be hazed just prior to use and then adjust to maintain levels during the event. The exclusive chambered 4-Port Rapid Clean Vaporizer is the heart of the unit. The easy-clean design allows for simple servicing and fast return to operation. The robust single lock-pin bracket serves as an adjustable floor stand, truss mount hanger and carry handle. Users can select from 3 different modes of control. Hand held remote, DMX, or stand-alone mode could be used dependent on their application. Jugs of 2 or 4 liter in size can be used in the integral holder. A 500-watt heater allows for a fast warm-up time. The output port has over 200 cfm of air to direct and assist dispersion. Neutron Haze Fluid has become the preferred form of product for use around personnel and property. The Radiance Hazer will produce a quality haze, while offering the benefits of the unique properties of the fluid.



Radiance Hazer shown with optional fan.

Warnings



Important Safety Instructions: Do not touch or place hands, expose skins, within 50 cm. of discharge nozzle.



Important Safety Instructions: Do not remove the outer case until power has been disconnected from the machine.



Important Safety Instructions: Persons suffering from asthma or allergenic sensitivity may experience irritation, discomfort, or allergic symptoms when exposed to fog effects.



Important Safety Instructions: Ensure that this unit is grounded at all times. Failure to do so may result in serious injury.



Important Safety Instructions: Never use alternative fluids. Toxicity free output is your responsibility.

M.S.D.S. available at www.lemaitrefx.com

Technical Specifications

Model: Radiance Hazer
Part Number: CLF 2460

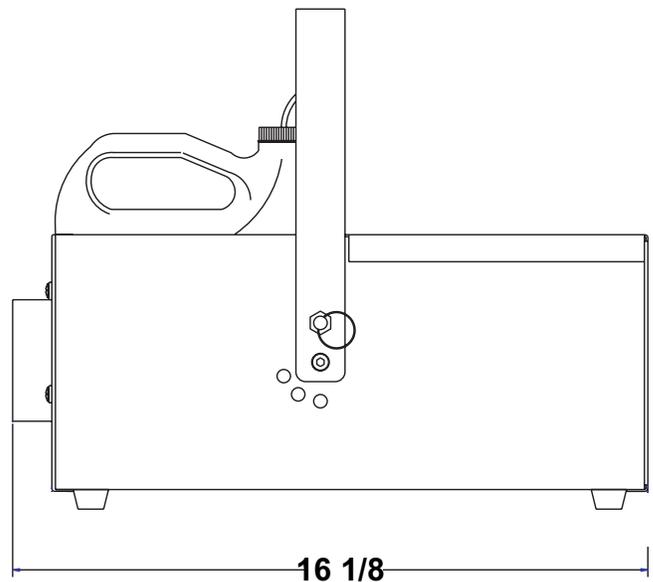
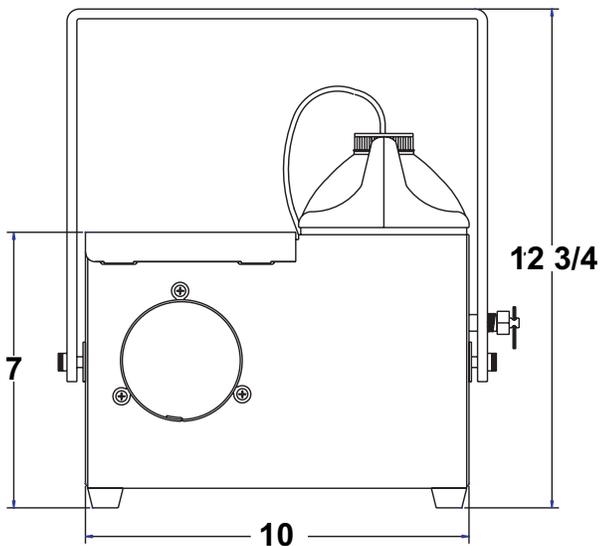
Length: 16 1/8" 41cm
Width: 10" 25cm
Height: 7" 18cm
Net Weight: 28lbs 12.7kg

Power Rating: 110 Volt A.C. 60 Hz. 5 Amps.

Fluid: Neutron Water Base Haze
Consumption - 27 - 380 cc/ hour
(rate can be reduced with the use of the Interval Timer)

Included: On-Board 5-Pin USITT DMX 512 Protocol
Truss Mount/ Angle Floor Stand

Radiance Hazer



Operating Procedure

Stand Alone Operation

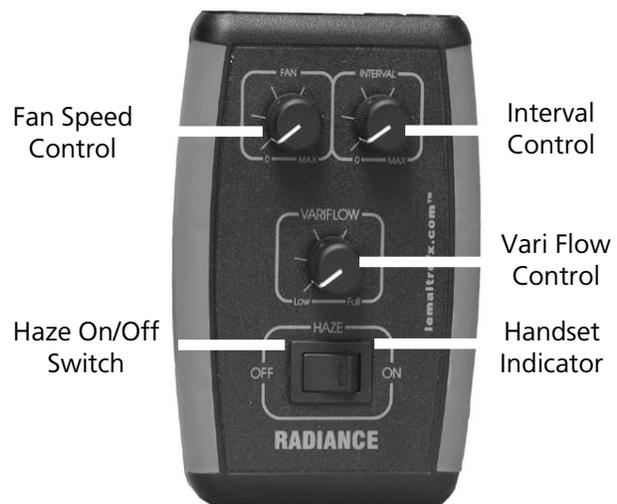
- 1) Insert a 2 or 4 Litre jug of Neutron Fluid into the fluid jug holder.
- 2) Remove the cap and break the foil seal. Insert the pickup tube into the jug and tighten the lid. Ensure the pickup end will sit at the lowest end if the unit is not mounted level.
- 3) Control is limited to 8 steps and OFF for the assist fan and the haze - rate. The DMX switches are used to select the desired operation. **The 'Hundreds' switch must be set to 6 before the unit is turned on.** This starts the unit in stand-alone mode. **This mode is indicated by the valid DMX light flashing.** The 'Tens' switch controls the haze rate. '0' is off, 1 - 8 runs from low to full (9 sets the same level as 8). The 'Ones' switch controls the assist fan in the same way, 1 - 8 is low to full. The fan has a minimum setting and should always run when the power is applied. The fan only speeds up when haze is issued.



- 4) Plug the unit into a suitable power source. Turn the main power switch on and it will illuminate if power is present. The valid DMX light should also now be flashing. The unit requires about 7 minutes to heat before haze can be produced.

Operation with Hand Remote

- 1) Insert a 2 or 4 Litre jug of Neutron Fluid into the fluid jug holder.
- 2) Remove the cap and break the foil seal. Insert the pickup tube into the jug and tighten the lid. Ensure the pickup end will sit at the lower end if the unit is not mounted level.
- 3) Plug the Hand Remote cable into the rear connector marked remote. Note that DMX control will override the hand remote settings. DMX control is indicated with the valid DMX light on solid.



Hand Remote

4) Plug the unit into a suitable power source. Turn the main power switch on and it will illuminate if power is present. The unit requires about 7 minutes to heat before haze can be produced. The Hand Remote indicates the heating cycle by flashing the haze switch light. When the unit is ready to haze the light will be solid.

5) The haze rate can be switched on and off and varied using the Hand Remote controls. Haze - rate increases as the variflow knob turns clockwise.

6) The assist fan is always on low. Fan speed can be increased by rotating the fan knob clockwise. The fan only speeds up during haze output.

7) The interval knob is used to provide cycled output. It must be set fully counter-clockwise when not in use. The hazer will produce 10 seconds of output at the requested flow spaced by 1 - 300 seconds dependent on the knob position.

DMX Operation

1) Insert a 2 or 4 Litre jug of Neutron Haze Fluid into the jug holder.

2) Remove the cap and break the foil seal. Insert the pickup tube into the jug and tighten the lid. Ensure the pickup end will sit at the lowest end if the unit is not mounted level.

3) Select the desired DMX address for the hazer. Note that the hazer occupies two sequential addresses. The selected address is the Haze - rate and the selected address + 1 is the fan speed. Control is from 0 - 100% with '0' turning the output off. Insert the DMX line into "DMX in" connector.

4) Plug the unit into a suitable power source. Turn the main power switch on and it will illuminate if power is present. The valid DMX light will be solid when DMX signal is present. The unit requires about 7 minutes to heat before haze can be produced.

Cleaning Procedure



- Make sure the main power cord is disconnected from power before attempting to remove the outer cover
- Make sure unit has cooled sufficiently to perform the operation

Note: Cleaning is recommended after every 25 litres of fluid.

1) Using a #2 Philips screw driver remove the 4 screws. Two by the jog holder and two on the rear, above the fan. (Fig. 1)

2) Lift the rear of the lid up then slide it forward.

3) Using a pair of Needle-nose pliers remove the 2 Hold-Down Springs; this will release the insulation cover and allow access to the 4-Port Rapid Clean Vaporizer. Grasp a spring and lift until the spring disengages from its retaining hole. (Fig. 2)

4) Remove the Insulation Cover. (Fig. 3)

5) Remove the 4 nuts from the top of the 4-Port R-C-V using a 7/16" wrench. (Fig. 4)

6) Remove all 4 nuts, lock washer and flat washers as well as the aluminum top plate and gasket material. (Fig. 5)

7) By removing the silicone tube from the inlet tube, the chamber can now be held over a container for cleaning.

8) Use a flat screwdriver to clean the 4-Port R-C-V by scraping away loose deposits. Brush out all of the ash material from each of the 4 ports. A light coating is okay; the ports do not need to be spotless. (Fig. 6)

9) Use a 5/64" drill bit to clean the nozzle. Ensure both nozzles are cleaned of any debris.

10) Ensure the mating block surfaces are clean to allow for proper heat transfer to take place before replacing the chamber

Fig. 1



Fig. 2

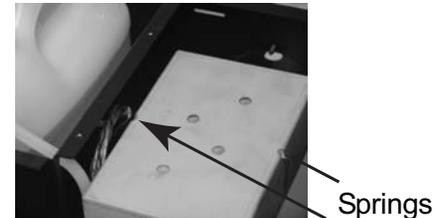


Fig. 3



Fig. 4



Fig. 5



Fig. 6



10) Replace the gasket with a new one. Ensure all of the surfaces are clean.

11) Reinstall the aluminum top plate and place flat and lock washers on the bolts (Fig. 6) with a 7/16" wrench, tighten until the lock washers flatten down and add 1/4 turn.

12) Reinstall the Insulation cover and attach the hold down springs on both sides. Ensure that none of the wires are pinched by the cover. (Fig. 7)

13) Verify that all of the hoses are connected.

14) Insert the tabs on the Radiance chassis cover into the slots located on the front of the Radiance Hazer. Slide the lid back until it drops into place. Using a #2 Philips screw driver fasten the lid by installing the 4 screws while ensuring the fluid tube is not pinched. (Fig. 8 & 9)

Note: Place the machine in a well-ventilated area. Allow the machine to heat up following the installation of a new gasket. A very strong odour will be emitted as the unit heats up and sets the new gasket. This will dissipate in 15 minutes.

Fig. 5



Gasket

Fig. 6

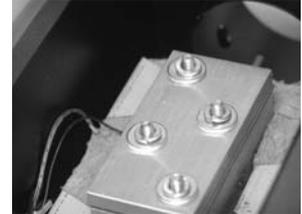


Fig. 7



Fig. 8



Fig. 9



Recommended Fluids

Neutron Haze Fluid: This fluid is specifically designed for use with our Neutron and Radiance lines of haze machines. This safe, water-based fluid creates a dry, long-lasting, evenly dispersed haze that leaves no residue. Neutron Haze Fluid is highly concentrated to allow for low fluid usage.



Warranty

Warranty:

All warranty is one year parts and labour unless specified and is on manufacturer defect only. Abuse or poor maintenance is not accepted. Le Maitre fluids must always be used. Any trace of other fluids will automatically void **ALL** warranties. Accept no substitutions as there are no exceptions to this rule. Proof of purchase or proof of sale must always accompany any warranty returns. An RA (return authorization) number must be noted on the outside of any box returned to our facilities. Any packages without a clearly marked RA number will not be accepted by our receiving department. Freight on warranty items are freight prepaid to our facility and we will prepay freight back to your facility after repair, by the most economical means available. Should you require the item express-returned, then you are responsible for any difference in freight cost.

Return Policy:

Return of any product must be done within 30 days of purchase. The package must be returned freight prepaid and the RA number clearly marked on the outside of the box. A restocking charge of up to 25% may be levied. Only credits are issued to the dealers account. Any product not returned within 30 days is considered purchased.

Warning:

Le Maitre Special Effects Inc. considers all it's product to be safe for use in the application it was intended. Le Maitre Special Effects takes no responsibility for misuse or incorrect use. Always refer to equipment owners manual for proper use.

Safety Precautions

1. Ensure that operation of the machine is supervised by suitably trained and authorised personnel.
2. Do not modify the machine or use a machine which has been damaged in any way.
3. Allow sufficient air circulation around the machine at all times.
4. Protect the Radiance Hazer from direct weather effects and wet locations.
5. Only use fluids recommended by the Le Maitre Special Effects.
6. Do not continue to produce haze output in an enclosed area when visibility is reduced below 50cm.
7. Avoid direct haze output continuously at persons, structure or objects within close proximity of the discharge nozzle.
8. Ensure that adequate exhausting arrangements are available in the event of an emergency.
9. Do not place hands, or exposed skin within the first 50cm of the discharge nozzle at any time during haze production.
10. Haze effects can trigger smoke alarms and detectors. Please take suitable precautions to prevent false alarms.