

# *LeMaitre* Special Effects Inc.

## **SHOW MIST PRO.**



## **Operations Manual**

# SHOW MIST PRO.

## VARIFLOW FOG MACHINE

### Introduction

Congratulations on your purchase of a Le Maitre Show Mist Pro. With basic care, your fog machine will provide years of trouble-free performance. The Show Mist Pro. is a product of many years of research and development resulting in a machine with many fine features and exceptional reliability.

This manual contains detailed information on the operation of your Show Mist Pro. Please take a few moments to read it over carefully before use, and keep it handy for your reference.

### General Use

1. Only Le Maitre Fog Fluid should be used in the Show Mist Pro. The use of other fluids will void all warranty and may lead to block damage and can produce toxic smoke output.
2. After connecting the fluid bottle and plugging in Variflow remote control unit, the Show Mist Pro is ready to be connected to the AC supply.
3. The L.E.D. on the back of the Show Mist Pro will indicate the machine is getting AC. The L.E.D.'s on the remote handset indicate POWER ON and READY.
4. When first plugged in, a cold Show Mist Pro. will take approximately ten minutes to heat. The READY indicator L.E.D. will illuminate when the machine is ready to use. Normal re-heat time is approximately one minute.
5. With a brand new Show Mist Pro., it will be necessary to PRIME fluid into the system to expel any air that may be present in the lines. (1) Set the VARIFLOW control on the remote handset to prime. (2) Set DURATION to one second. (3) Set INTERVAL to zero minutes. (4) Switch the SMOKE control to ON. This will effect a pulsing fluid flow which will prime the machine correctly. Until primed, the electronic pump will sound louder than in normal use. Allow approximately one minute to fully prime the system. NOTE: Priming is required only when a machine is new or if air has been introduced into the lines when the fluid jug has been replaced.
6. Once primed, the control is available in the form of an optional mini-jack input on the side of the standard hand-held remote.

### Control from a Lighting Desk

0-10 volt control is available in the form of an optional mini-jack input on the side of the standard hand-held remote. To use 0-10 volt control connect the mini-jack to the 0-10 volt output of a lighting control desk channel. Plugging the mini-jack into the Remote overrides its programmed settings and allows control of the Show Mist Pro. from the channel fader. At (0) fader level the Show Mist Pro. will be OFF. As the level of the fader is increased the output of the Show Mist Pro. will increase. No timer control will be available while operating in this mode.

### Control from DMX512

The Show Mist Pro. can be controlled by a DMX512 controller. This optional attachment uses USITT standards and is available from your Le Maitre Special Effects authorized dealer.

#### **CAUTION**

**Keep people and objects away from the fog jet.  
The output nozzle is VERY HOT and can cause burns.**

**WARNING**  
**Do not remove the outer case until power has been disconnected from the machine.**

**Maintenance and Care of Your Show Mist Pro**

It is important for the Show Mist Pro to receive basic periodic maintenance. It must be remembered that the machine runs at extremely high temperatures, and although thermostatically controlled, the machine will benefit from being unplugged **WHEN NOT IN USE**.

Please observe the following recommendations:

- check internal tubes for any leaks (3 month intervals)
- clean the filter one a year or when required
- periodically ensure all connections are tight

**Before Requesting Service**

Check the following points if you are having trouble with your Show Mist Pro.

<b>Show Mist Pro will not power up</b>	<input type="checkbox"/> check that power plug is completely plugged into AC outlet
<b>No Fog Output</b>	<input type="checkbox"/> check fluid level <input type="checkbox"/> check internal fuse
<b>Low Fog Output</b>	<input type="checkbox"/> check remote variflow level - adjust as required
<b>Machine turns off smoke early</b>	<input type="checkbox"/> check that duration control is set to desired time
<b>Machine 'pulses'</b>	<input type="checkbox"/> check to ensure duration time has been selected and interval is above '0'

\*If your still experiencing problems contact your local dealer. Giving an accurate description of the trouble will ensure prompt service.

## Using the Remote

1. Fog time is set using the DURATION control (1→30 seconds).
2. Time between fog outputs is set using the INTERVAL control (0→20 minutes).
3. Fog output level is set with VARIFLOW CONTROL.

NOTE: To re-program the settings on the Variflow remote,, insure that the smoke on-off switch is turned off a minimum of four seconds to clear the remote's existing "memory".

## EXAMPLES

1. Medium fog 30 seconds duration every 10 minutes
  - set VARIFLOW to 50% (adjust as required)
  - set DURATION to 30
  - set INTERVAL to 10

2. Maximum fog maximum duration
  - set VARIFLOW to PRIME
  - set DURATION to 30
  - set INTERVAL to 0 (this shuts off timer)

\*Note: Setting INTERVAL to zero and DURATION to 30 will allow over 30 seconds of fog time, limited only by thermal protection circuitry.

3. Continous fog output - low level
  - set VARIFLOW to approximately 60% level or less (adjust to requirements)
  - set DURATION to 30 (maximum continous)
  - set INTERVAL to 0 (this switches off the timer)

\*Note: Safe and reliable operating parameters, integral in the Show Mist Pro. design, delicate that the heat exchanger maintain a closely regulated operation temperature. It's capability to do this is affected by two factors: (1) AC available to it (ie. 115 volt/15amps) (2) The volume of coolant (ie. fog fluid) being pumped through it. Since more AC is not available (ie.200 volt), the block must see less coolant (less smoke output) to run continuously. Gradually increasing output (pumping more "coolant" through the block) will eventually cool the block sufficiently that thermal sensors will trigger the Show Mist Pro's circuitry, and shut off the fluid pump to allow time for the block to reheat.

## NOTES

Purchased From: \_\_\_\_\_

Dealer's Phone Number: \_\_\_\_\_

Purchase Date: \_\_\_\_\_

Serial Number: \_\_\_\_\_