# LSX Low Smoke Convertor Operations Manual


v.03.14.01

Le Maitre
SPECIALEFFECTSINC

**WARNING**
**SAVE THESE INSTRUCTIONS**
**READ THESE IMPORTANT SAFETY INSTRUCTIONS**
**Do not remove the outer case until power has been disconnected from the machine**

# LSX LOW SMOKE CONVERTOR

## Introduction

Congratulations on your purchase of a Le Maitre LSX Low Smoke Convertor. With basic care, your LSX will provide years of trouble-free performance. The LSX 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 LSX. Please take a few moments to read it over carefully before use, and keep it handy for your reference.

## Maintenance and Care of Your LSX Low Smoke Convertor

Although by design the LSX is a rugged machine, care should be taken in transportation and basic movement.

The LSX unit contains basic refrigeration components and improper handling may result in a shorter life expectancy. Although the LSX has a 1 year warranty on manufaturer's defect, and 3 mos. on refrigerant, improper handling and transportation may void such warranty.

General Use

1.) During use this machine generates condensation. After use the LSX should be drained via the Drain Valve.

2.) This unit requires a 15 amp circuit to run properly. The use of any extension cords or a shared circuit is strongly not recommended.

3.) A 4" Adapter has been provided to help link the Fog Machine with the LSX. It is very important to allow as much natural cooling of the Fog before entering the Rear Port of the LSX unit. Direct input from the Fog Machine may cause un-vapourized fog to collect in the LSX cooling chamber. It may also cause unvaporized Fog to collect on the stage or floor.

CAUTION: This may cause the floor to become very slippery. This may also inhibit the performance of the LSX unit.

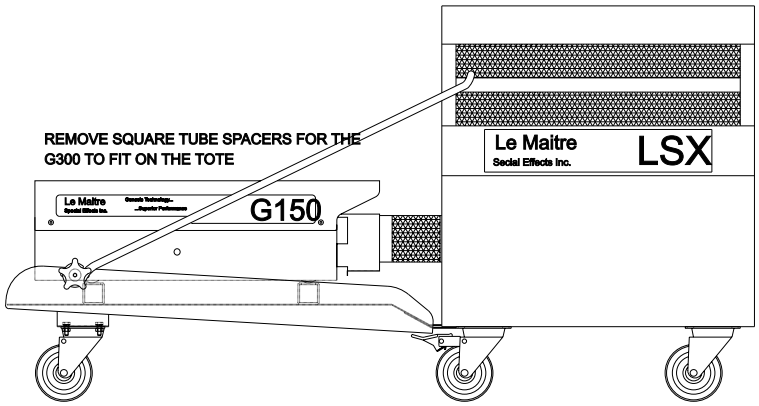
4.) It is essential that Le Maitre Genuine LSX Molecular Fluid is used in the Fog Machine to achieve optimum effect.

5.) The LSX Control Circuit is by design the most 'User Friendly' controlling circuit on the market. When the System Switch is in the 'ON' position and illuminated, power is established to the LSX unit. A 'GREEN LED' is provided to indicate the compressor is operating. We have also added a digital temperture display to easily assess the coil temperature.

6.) A Automatic Reset Low Pressure Switch is provided as protection against compressor damage. If the Low Pressure Switch has been activated the 'RED' LED will illuminate (the 'GREEN' LED will not be illuminated). Once the Low Pressure Switch has been activated a 10 minute timed cycle will begin . Both LED's are not illuminated during this 10 minute timed cycle.

7.) The Variable Fan Control regulates Fog Density Output. Some experimenting will produce various effects. An OFF position is provided on this control. It is not recommended that this control be left in the off position as this will eventually result in activation of the Low Pressure Switch.

8.) A variable damper is provided to aid in the Fog Output Effect. This damper has been designed to assist in using output extension such as 4" flexible hosing.
ie: Close when no hose is being used. Open when hose is being used.



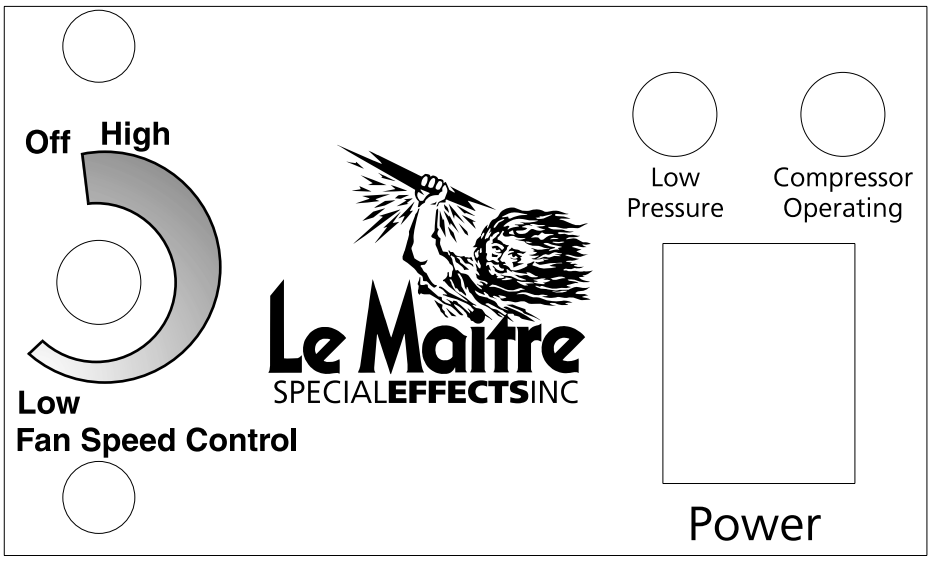

LSX shown with G150 Fog Machine
and LSX/Fog Machine Carriage
Not included.

| | |
|---|---|
| If LSX will not Power Up | Check Power Source and connections |
| Green 'LED' is not illuminated & Red 'LED' is not illuminated. | Low Pressure Switch has tripped, allow for Auto Reset and internal 10 minute timer to count out. |
| Low Pressure Switch will not Auto Reset. Red 'LED' remains illuminated. | Low Refrigerant Charge (Contact Local Dealer). |
| Fog will not remain on ground. | 1.) Ensure the use of Genuine Le Maitre LSX Molecular fluid.<br><br>2.) Check digital temperature display reading for coil temperature.<br><br>3.) Check Green and Red 'LED' see above. |
| Green 'LED' goes out when unit is operating and Red 'LED' doesn't illuminate | Check Power Source for sufficient voltage. Do NOT use extension cords. |
| Condensation on floor. Floor seems slippery | 1.) Too much fog is going through LSX<br><br>2.) Fog machine Nozzle is too close to LSX.<br><br>Reduce fog output, or duration |

**WARNING!!**
**DO NOT REMOVE TOP PANEL. NO CUSTOMER SERVICABLE PART INSIDE. CONTACT YOUR LOCAL DEALER**

**WARNING!!**
**USE OF POOR POWER SUPPLIES WILL RESULT IN PERMANENT COMPRESSOR DAMAGE. (IE. EXTENSION CORDS, CROWDED CIRCUITS)**

WARNING!!
TRANSPORT UNIT ON ITS WHEEL BASE ONLY, ANY OTHER POSITION WILL RESULT IN SEVERE COMPRESSOR DAMAGE.




1.) Operates lower fan on a variable control. Moving clock wise reduces air flow.
Note: If fan control is left in the 'OFF' position or in a very low setting the low pressure switch may activate turning off the compressor.

2.) Low pressure light, when lit, indicates Low Pressure Protection has been activated. Low Pressure Switch wil automatically reset. Allow for the internal 10 minute time cycle.

3.) Compressor operating when lit. Compressor function normal.

4.) "ON" Switch

Note: A cooler ambient temperature may result in activation of Low Pressure Switch within a short period of time after initial start up. To remedy this problem the unit can be stored in a warm location, or a "load" can be put on the cooling chamber by introducing warm fog into the unit just after start up.

# The Le Maitre Quality Line of Fog Fluids

## Fluid Description

Fog Fluid

This fluid has been our long standing blend. It is a clean, white, practically odourless fog. It is used for many applications where a cloud of fog is required with a medium hang time.

Long Lasting Fluid:

This is a brand new blend. We have had many compliments on our fog fluid but many of our customers would like it to hang longer so we introduced the "Long Lasting Fluid". It is still odourless but a little less white than our "Fog Fluid". It hangs in the air 2 - 3 times longer than the above "Fog Fluid".

Quick Dissipating

We have been mixing this for some time for our special effects people working in the movies. We have decided that there are many other applications for this fluid. When using this in the LSX or LSG you will find it works very well if you are having problems with the smoke rising too quickly. It has also been used for quick burst-of-steam effects, nitrogen bursts, etc. It will dissipate at about twice the rate of the "Molecular Fluid".

Extra Quick Dissipating:

It is very similar to the "Quick Dissipating" but dissipates at about twice the rate of the "Quick Dissipating".

Molecular:

The "Molecular Fluid" was originally designed for use in the LSX, however, many other applications were found very quickly. It is a clean, white, thick fog, practically odourless and dissipates as it begins to warm.

Canisters (Aerosols):

The canisters are used only in the Mini and Opti Mist machines. The formulation used is the "Fog Fluid" and will give the same effect as the regular machines will give. The canisters are charged with a propellant to give pressure in the place of the pump. Other fluids can be mixed but substantial purchases are required. (1000 pc. minimum)

Regular Haze:

The "Regular" Haze has a higher concentration level than the "Lite" and gives a quicker result with less operation time of the G300. Ideal for medium size rooms and cutting down on operational costs.

Maxi Fluid:

Maxi Fog Fluid is the newest addition to our already extensive line of special effect fluids. Maxi was developed for our high volume users requiring an excellent balance of price and performance without compromise.

All of our Haze Fluids are water base and leave NO residue. The G300 must always be in Haze mode when using Haze Fluids. Permanent damage will occur if Haze Fluid is used in G300 Mode for any length of time.