

# LSX Low Smoke Convertor Operations Manual



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*Please Read Carefully Before Operating*

## Introduction

Congratulations on your purchase of a Le Maitre LSX MKII 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.

## Warning



**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:** Use of poor power supplies will result in permanent compressor damage. (ie: extension cords, crowded circuits)



**Important Safety Instructions:** Do not remove top panel. No customer servicable parts inside. Contact your local dealer.



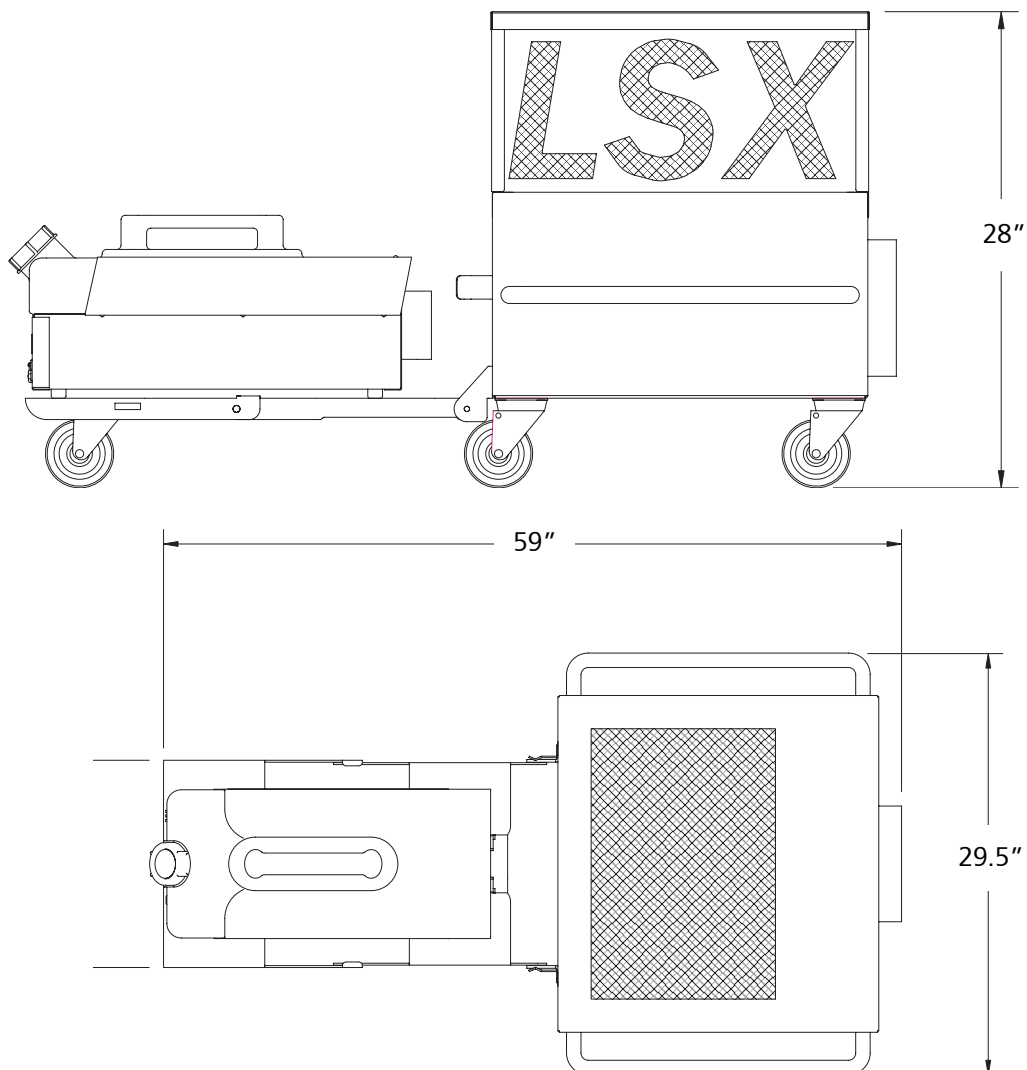
**Important Safety Instructions:** Transport unit on its wheel base only. Any other position will result in severe compressor damage.

M.S.D.S. available at [www.lemaitrefx.com](http://www.lemaitrefx.com)

## Technical Specifications

Model:	CLP 2930	LSX Low Smoke Convertor
	CLP 2915	LSX Low Smoke Convertor 220 Volt
Length:	59"	150cm
Width:	29.5"	75cm
Height:	28"	71cm
Net Weight:	150lbs	68kg
Rating:	12 amps @ 110 volts @ 60 hz	

## LSX Low Smoke Convertor



## Operating Procedure

1. During use this machine generates condensation. After use the LSX should be drained via the drain valve.

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

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

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

4. The LSX unit is controlled by a user-friendly panel. 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.

5. An 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).

6. 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 and cause a freeze up condition.

## Control Panel Operations

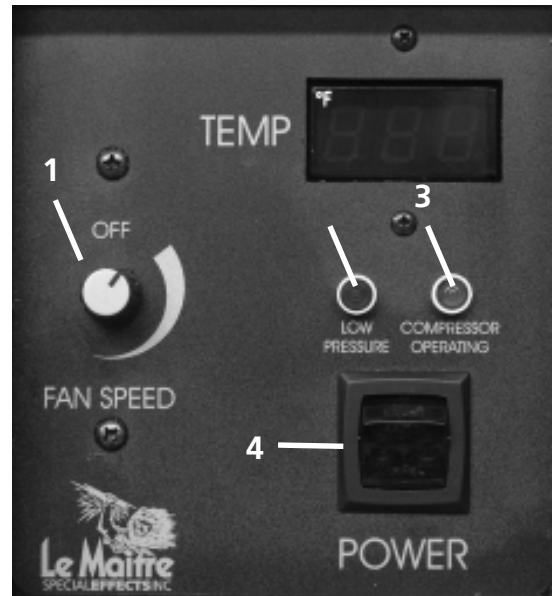
1. Fan Knob: this controls the speed of the lower fan. Turning clockwise reduces the speed. Off is at the counter clockwise end.

**Note:** It is not recommended to leave the control 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 that Low Pressure Protection has been activated. The Low Pressure Switch will automatically reset but may take 2 - 3 cycles to start, unless a leak has occurred in the system.

3. Compressor Light: compressor is operating normal when lit.

4. Power Switch: power is on when lit.



**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, a "load" can be put on the cooling chamber by introducing warm fog into the unit just after start up, or by simply covering the top of the unit to stop air flow.

## Before Requesting Service

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

## Recommended Fluids

**Directors's Choice 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.

**Pro Beam (Long Lasting) Fog Fluid:** 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 "Director's Choice". It hangs in the air 2 - 3 times longer than the "Director's Choice".

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

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

**Maxi Fog Fluid:** Maxi Fog Fluid was developed for our high volume users requiring an excellent balance of price and performance without compromise.

**EZ Kleen Preventative Maintenance Fluid:** EZ Kleen is used as a preventative maintenance measure to ensure longer heat exchanger life. It is easy to use and should be used on a regular basis to prevent blockage of your heat exchanger that frequently happens to fog and haze machines.

## 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 LSX from direct weather effects and wet locations.
5. Only use fluids recommended by the Le Maitre Special Effects.
6. Do not continue to produce Fog output in an enclosed area when visibility is reduced below 50cm.
7. Avoid direct Fog 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 fog production.
10. Fog effects can trigger smoke alarms and detectors. Please take suitable precautions to prevent false alarms.