

# Premier Fog Effects Generator

## Operator's Manual

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**Note: Please read entire manual before operating the Premier Fog Effects Generator**

# Premier Fog Effects Generator



## Warning

### Important Safety Instructions:

1. Do not touch, place hands or expose skin within 20" (50 cm) of the discharge nozzle.
2. Do not remove the outer case.
3. Persons suffering from asthma or allergenic sensitivity may experience irritation, discomfort or allergic symptoms when exposed to fog effects.
4. Ensure that this unit is grounded at all times. Failure to do so may result in serious injury.
5. Use Ultratec Special Effects fluid ONLY.

## Safety Precautions

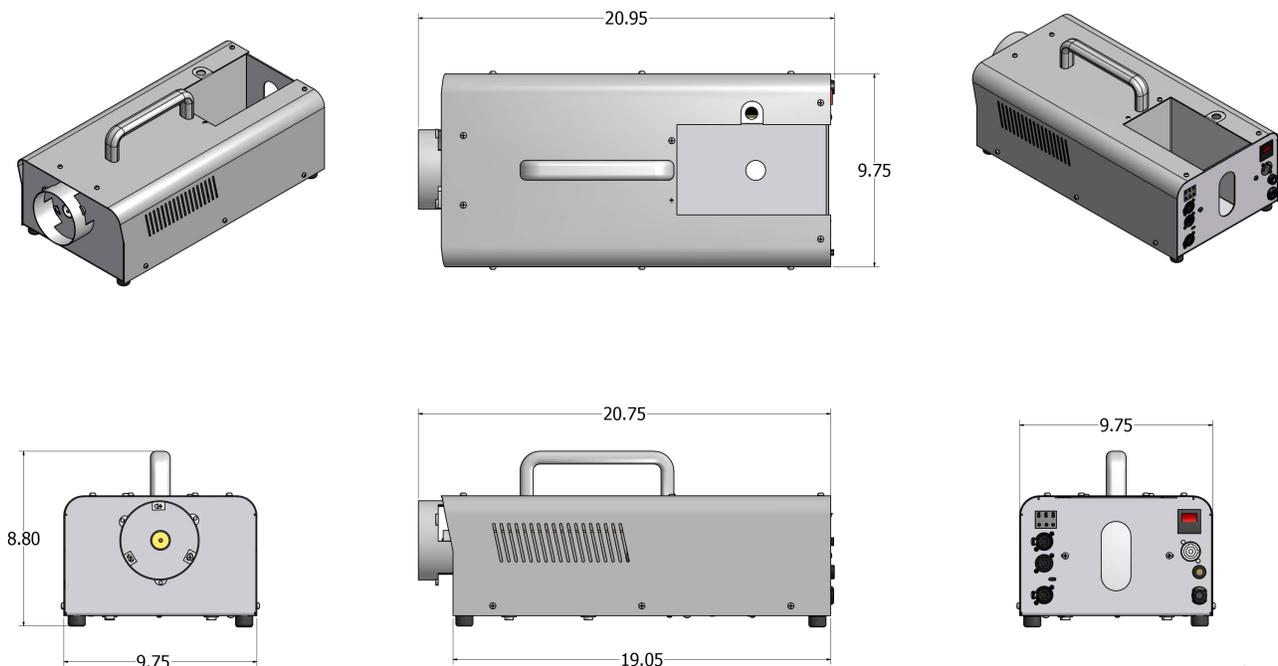
1. Ensure that any operation of the machine is supervised by suitably trained and authorized personnel.
2. Do not modify the machine or use a machine which has been damaged in any way.
3. Allow sufficient air circulation around the machine at all times.
4. Protect the machine from direct weather effects and wet locations.
5. Only use fluids manufactured by Ultratec Special Effects.
6. Do not continue to produce fog when visibility is reduced to 20" 50cm or below.
7. Avoid directing fog output continuously at people, structures 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 20" (50 cm) 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.

# Technical Specifications

<b>Run Time:</b>	Continuous	
<b>Model Numbers:</b>	CLF-4520	110 Volts A.C. 1400 Watts 50/60 Hz.
	CLF-4522	220 Volts A.C. 2000 Watts 50/60 Hz.
<b>Heat Time (Cold Start):</b>	9 minutes	
<b>Reheat Time:</b>	1.5 minutes	
<b>Fluid Consumption:</b>	Burst -127 cc/min. Continuous 57 cc/min.	
<b>Length:</b>	21in	56cm
<b>Width:</b>	10in	25cm
<b>Height:</b>	9in	23cm
<b>Net Weight/w Fluid:</b>	39lbs	17.7 kg
<b>Weight:</b>	29lbs	13.2 kg
<b>Power Cord:</b>	6ft - 1.8m	
<b>Heater Watts:</b>	1400 w 110 Volts A.C. 2000 w 220 Volt A.C.	
<b>Rating</b>	110 Volt A.C. 50/60 Hz. 12 Amps. 220 Volt A.C. 50/60 Hz. 9 Amps.	
<b>Regulatory Compliance:</b>	CSA/UL Standards by QPS Canada Inc (120 VAC) CE certified (230 VAC)	

# Technical Drawings

## PREMIER FOGGER



# Premier Fog Effects Generator

The Premier Fog Effects Generator features DMX control with RDM functionality. The powder coated stainless steel chassis is manufactured to hold a 1 Gallon/ 4 liter jug of Ultratec genuine fog fluid. A large comfortable handle allows for easy transport. Ultratec's award winning Rapid change technology makes tube replacement quick and convenient. With a heating capacity of 1400 (2000) watts maximum output is achieved. Dual processor control with precision ice-point referenced temperature sensing of an isolated thermocouple gives non stop flowing output for as long as required.

LED displays and indicators allow the operator to easily see and control the machine. 3 modes of operation are available to the user. First there is Stand-alone for basic control with no external controls. Then a 25' Analog Timer Remote provides remote wired flow control with interval and duration time settings and can be extended up to 200' more. Ultimate control is provided with the internal DMX-RDM interface. Each machine comes with a 4" hose adapter which is easily removed for custom installations.

## Features

- Continuous Fog Output
- Rapid Change Heat Exchange
- On-board DMX-RDM interface
- Dual Microprocessor control
- LSG Compatibility
- Built in Stand Alone Operation
- Removable 4" Hose Adapter
- Stainless Steel powder coated chassis
- Over-temperature protection
- Includes a rapid change replacement kit
- Easy to address DMX setting
- Heating status LEDs on Remote and machine back
- Hand Held Full function Timer Remote included
- One-Gallon Jug Holder

## Operating Setup Procedure

1. The fog machine must be connected to a grounded supply of at least 15/12 amps (110 v/220 v) free of electrical interference. Due to the heavy loads minimize length and maximize size of extension cords.
2. Open a 4 Liter container of Ultratec Special Effects Fog Fluid and insert the fluid pickup tube into the spout of the fluid container. Allow unit to heat fully before attempting to prime the pump.
3. Activate the Power switch located on the rear panel. The Power switch and Handset indicator will illuminate to indicate the presence of power. If the Handset indicator does not illuminate, ensure the connector is properly inserted.
4. With the Remote Handset connected to the rear panel or by watching the green Led located on the rear panel allow the unit to heat. (When using DMX the Remote is not required).
5. The Handset indicator and green LED will begin to flash slowly, but will speed up when the fog machine is ready to operate. After approximately 9 minutes, the fog machine will be fully heated and is ready for full output; the indicators will be on solid.
6. It may be necessary to prime fluid into the system to expel any air. The Variflow control on the remote handset should be set to the full position. A dry hose can take between 45-60 seconds to prime. This only needs to be done if the unit was left to run dry.

**NOTE:** In order to prime the fog machine, the green led or red Handset led must be on solid.

## Operations:

After power up the rear display will momentarily show the code revision levels in the machine and then display the DMX setting for several seconds. The display will blank after a short period of time. Touching any of the selecting arrow keys will relight the display. Further activation of the keys will alter the DMX setting.

### Stand-alone

Place the DMX setting to 600 the display will stay illuminated indicating this mode is selected. Allow the machine to heat fully by watching the green led's progress. Slow flashing is cold, fast flashing is heating but in a reduced flow but usable range. Solid green indicates fully heated. By now setting the tens digit between 1 and 8 you will now get 8 flow settings from low to high.

### Hand Held Timer Remote

The Timer/ Duration Remote Handset has been designed to indicate modes of operation.

**Slow Flashing Light:** Indicates unit is not ready to operate but still in heating mode, fog is not available at this point.

**Quick Flashing Light:** Indicates unit is ready to operate but still in heating mode, some fog is available at this point.

**Solid Light:** Indicates that the unit is ready to fog at full output.

A pattern of 3 flashes Indicates an overheated condition.

**Variflow** sets the desired fog output rate from 0 to full output.

**Duration** sets fog "on time" from 0-4.25 minutes when using the timer settings.

**Interval** sets fog "off time" from 0-4.25 minutes when using the timer settings.

The interval time must be set to 0 to disable the timer operation.



The Hand Held Remote cable may be extended from the machine and operated effectively away from the Premier Fogger. The maximum allowable extension cable length is 200 Feet, less is better.

**LSG operation:** To trigger LSG set DMX Address to "555" and adjust duration to above 50%

**Note:** This setting disables interval and duration timer functions.

### DMX Operation

The Premier Fogger is equipped with DMX-RDM controls as a standard feature. 2 channels of DMX are required. The base address = Fog Output Control. The base address + 1 = LSG aux. port control.

## DMX Operation

The Premier Fogger is equipped with DMX-RDM controls as a standard feature. 2 channels of DMX are required. The base address = Fog Output Control. The base address + 1 = LSG aux. port control.

1. Apply a DMX signal to the DMX IN 5 pin connector on the rear of the unit. A terminator may be required on the DMX OUT connector in some applications.
2. Select a valid DMX address with the arrow keys to set the base address of the fogger. Note the display goes to sleep when not in use. Touching any key once wakens it. The set DMX address controls the fog flow rate from 0-100%. The next consecutive address turns on the auxiliary port if it is set over 50% for control of a LSG.
3. The valid DMX LED is on solid if good DMX signal is present. DMX control will override hand remote only while active. Slow or irregular flashing indicates poor DMX data

## RDM Functions

RDM features will allow remote identify by flashing the DMX display, DMX address changing and machine temperature monitoring. As well the machine's group and manufacturer identification data is available.

# Maintenance

## Exterior

The casing of the Premier is stainless steel with a powder paint coating. To clean, simply wash with mild soap and warm water.

## Heat Exchanger

Using high quality Ultratec Special Effects fluid should result in a long heat exchanger life.  
(See warranty policy later in this manual).

## Use Only Ultratec Special Effects Fluids

**Director's Choice Fog Fluid:** The choice of professionals. Director's Choice creates a cloud of fog with a medium hang time while remaining clean, white, dry, and odorless.

**Pro Beam Long Lasting Fog Fluid:** The choice of professionals. Director's Choice creates a cloud of fog with a medium hang time while remaining clean, white, dry, and odorless.

**Quick Dissipating Fog Fluid:** This fast dissipating fluid is great for applications or effects that require quick dissipation of fog. It produces excellent steam effects that resemble nitrogen bursts and it also keeps low-lying fog from rising too quickly when it is used with the LSG or LSX.

**Extra Quick Dissipating Fog Fluid:** Dissipates 2x the rate of Quick Dissipating Fog Fluid while maintaining similar characteristics.

**Molecular Fog Fluid:** A faster dissipation versus the Director's Choice Fog Fluid. This thick, clean, white fog is an optimal solution for a dense low-lying fog effect when chilled with the LSG or LSX machines.

**Party Fog Fluid:** Quality fog fluid on a budget. An excellent solution for Djs, Nightclubs, Haunted Houses etc. that are looking to enhance light beams and creating various smoke effects.

**Maxi Fog Fluid:** The perfect balance between price and performance. Maxi Fog is the ideal solution for those who require high volume without compromise.

Maintenance Fluid

**EZ Kleen Preventative Maintenance Fluid:** Using EZ Kleen preventative maintenance fluid on a regular basis ensures longer life for the heat exchanger in Ultratec fog machines by reducing blockage.

**Our Fog Fluids are water based. Damage will occur if Haze Fluid is used in the Premier Fogger.**

# Warranty

<b>Warranty:</b>	All warranty is for one year parts and labour unless specified or manufacturer defect only. Abuse or Poor Maintenance will not be covered under warranty. Ultratec Special Effects Fluids must always be used. Use of any non Ultratec Special Effects Fluids will 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 the box being 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.
<b>Return Policy:</b>	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. Minimum restocking fee is 25%. Once our facility has received the product a technical assessment will be completed to determine if an additional restocking fee needs to be issued. Only credits are issued to the dealers account. Any product not returned within 30 days is considered purchased.
<b>Warning:</b>	Ultratec Special Effects considers all of it's product to be safe for use in the application it was intended. Ultratec Special Effects takes no responsibility for misuse or incorrect use. Always refer to the Product Manual for proper use.

## Contact Information

### Head Office

Ultratec Special Effects  
1960 Blue Heron Drive  
London, Ontario N6H 5L9

Direct: 519-659-7972  
Toll Free: 866-534-5557  
Fax: 519-659-7713

### Europe Office

Ultratec Special Effects GmbH  
Dieselstrasse 30-40  
60314  
Frankfurt am Main  
Germany

Direct: 49-69-87-000-1850  
Fax: 49-69-87-000-1899

### Canadian Shipping Address

(For All Canadian Repairs)  
Ultratec Special Effects  
1960 Blue Heron Drive  
London, Ontario N6H 5L9

### USA Shipping Address

(For All USA Repairs)  
Ultratec Special Effects  
640 Gadson Street  
Groveland, Florida 34736

Please remember to include the **RA Number on all items being shipped for repairs.**

To retrieve an RA Number visit [www.ultratecfx.com](http://www.ultratecfx.com) and click on the "Service" section. Then click on "Return Authorization Request" which is located on the left hand side of the page.

If you have any questions or require assistance please contact service at 519-951-3357/866-534-5557 or by email at [Service@Ultratecfx.com](mailto:Service@Ultratecfx.com).