
FOGMAX™

Operating Instructions



P/N 100090 (120 VAC w/DMX)

P/N 100095 (230 VAC w/DMX)

Thank you for purchasing this FOGMAX™

- **As you will notice from the table of contents, the manual for your new product is quite extensive.**
- **To guarantee perfect and successful work with this machine, please take some time to read the manual carefully.**
- **And finally, we believe you will enjoy years of great smoke effects if you care for and maintain your FOGMAX™.**

CITC

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1. Set of Equipment Supplied

- **FogMax™ w/DMX (w/5-pin XLR connectors)**
- **Remote Cycle-Timer Controller w/5-pin XLR connector**
- **Bracket for hanging**
- **Instruction booklet**

2. Accessories and Parts

CITC SmartFog™ Fluid

(available in gallons (3.8 liter) and 5-gallon (19 liter) cubitainer)

P/N 150460 60 Minute Longest-Lasting SmartFog™ Fluid

P/N 150450 45 Minute Long-Lasting SmartFog™ Fluid

P/N 150410 25 Minute Regular SmartFog™ Fluid

P/N 150411 15 Minute “Fog-It” SmartFog™ Fluid

P/N 150490 3 Minute Low-Ground SmartFog™ Fluid

P/N 150491 1 Minute Quick SmartFog™ Fluid

- **C-Clamp w/Safety Cable (P/N 250110)**
- **C-Clamp w/eyebolt & hanging harness for 5 gallon (19 liter) Cubitainer (P/N 250076)**

Please check whether all the products you ordered are supplied.

3. Description of the FogMax™

The FogMax™ w/DMX is CITC's industry-proven fogging system. No other comparable machine delivers a thicker, whiter output of 30,000 cfm (850m³/minute) of digitally controlled fog. Extremely reliable, the FogMax™ can produce longer on high than the stiffest competition. Accurate temp control makes shut down history. It now has a quieter pump with a 1500 watt heating head, a 1-channel DMX on board, remote control cycle-timer and hanging bracket. The FogMax™ is your best bet for professional fog. Uses water-based CITC SmartFog™ fluid in 15 Minute, 1 Minute, 3 Minute, 25 Minute, 45 Minute or 60 Minute. The extra dry fog leaves no mess, no residue and can be fully controlled with DMX.

The following sequence produces fog:

1. The fog generator is preheated for 5 – 10 minutes.
2. The pump is controlled from 0 – 100% output by the Remote Cycle-Timer Controller or by DMX.
3. At 12 o'clock output, the unit will produce fog continuously without delay
4. At 100% output (3 o'clock on Volume Control), the unit will produce a heavy fog for 30 minutes or more without delays. After a short rest period the FogMax™ is again warmed up and ready to produce fog.

4. Safety instructions

WARNING: Read and understand all labels and operating instructions before attempting installation.

- Never open the machine without disconnecting power lead first!
Risk of electrical shock- This device is supplied with a grounding conductor. To reduce risk of electrical shock, connect only to properly grounded, grounding type receptacles. Never remove the third prong from the plug.
- This machine requires a 120VAC/20A circuit for operation (or a 230VAC/10A circuit for the 230VAC machine). The FogMax™ draws approximately 15 amps at 120 VAC (8 amps at 230VAC). During FogMax™ operation this circuit should be dedicated to the FogMax™. If you have any doubts about the capacity or grounding of your existing circuits, consult a qualified electrician.
- Be sure area around fogger is dry before applying electrical power.
- Make sure that your unit is pointed in a direction that leaves a 10ft (3m) open area out in front. Place the front of the machine away from direct contact with electrical instruments and people. Close output is very hot and wet.
- Never operate the pump without fluid passing through the tube. Operating the pump without fluid can cause damage that is not covered under warranty.
- Fluid is very slippery when spilled. Care in keeping any drips or spills cleaned up is necessary.
- Do not store FogMax™ in freezing conditions.

5. Operating the FOGMAX™

5.1 Selecting the Location

Secure a good location for the machine to rest solidly on the floor or suspended so that the output of the machine will not be restricted. Make sure that your unit is pointed in a direction that leaves an open area out in front and can travel 10ft (3m) without restriction. Place the front of the machine away from direct contact with electrical instruments and people. Close output is very hot and wet. Always allow plenty of air circulation to allow the fog to expand, separate and enlarge.

5.2 Electrical Power Requirements

This machine requires a separate 120VAC/20Amp (or 230VAC/10Amp) circuit for operation. The FogMax™ draws approximately 15 amps at 120 VAC and 8 amps at 230VAC. During FogMax™ operation this circuit should be dedicated to the FogMax™. If you have any doubts about the capacity or grounding of your existing circuits, consult a qualified electrician.

5.3 Hooking things up

Plug the 5-pin XLR of the Remote Control to the inlet marked "Remote Control". Fill the bottle with CITC's SmartFog Fluid. Place the filter end of the tube inside the bottom of the bottle and tighten cap. Be sure the vent hole in the cap is not blocked.

5.4 Operating the machine with the remote

1. Turn on the power switch on the fogger. Verify that the red light in the switch and the red "power" LED on the remote both illuminate. Wait approximately 7-10 minutes for the green "ready" light, located on the remote control, to come on.
2. Using the "vary output" button, you may adjust the output volume with the volume control. Using the "timer" button, you may adjust the "on" and "off" knobs for timing the fog and the "output" knob. The amount of fog can be adjusted by using the volume "output" knob. **NOTE:** Do not depress "vary output" when using timer. When using the "blast" button, you will not have timer or volume output control. The "blast" button provides maximum smoke as long as you hold the button down.

5.5 DMX Control

With DMX control, you will be able to adjust the fog levels on/off, from 0 – 100%. DMX will override all remote control functions. Once your fogger is warm and the green "ready" light is on, you may control the fog output from the control booth. (See section 5.9)

5.6 Rest Period

Continuous operation of this machine can be accomplished when volume is set at the 3 o'clock position. If dial is set for full output or blast, the fogger may cool enough to require a 3 minute rest period for reheating before continuing to fog.

5.7 Shut down

When finished with the machine, clean the tube and pump by operating the unit while running a pint of 5% vinegar/distilled water mix through the pump and then rinse with a pint of distilled water. When finished, water should remain in the line for storage. Do not drain or empty the tube of water.

5.8 Troubleshooting

If the pump does not draw fluid into the fogging unit, be sure the unit is warm and ready to operate. Then check to see that the tubing is in the fluid, not above the fluid. Check electrical power to the machine. Check to hear any sound coming from the pump side (nearest the top). A slight vibrating sound should be heard if the pump is pumping fluid. Allow fluid to flow through the line to get the pump primed. **Note: do not run the pump without fluid passing through the tube. This can cause damage to the pump and is not covered under warranty.**

5.9 Notes on DMX operation

Each DMX'd unit will occupy a unique DMX address on the DMX chain. By adjusting the dip switches on the side of the machine near the DMX cable plug-ins, the user may assign one address to the machine, giving you on/off and volume control with one DMX channel (there is no timer on this DMX).

Step 1). Attach the DMX cable (5-pin XLR) to the upper "in" female connector located on the back of the fogger.

Step 2). The DMX address is configured by adding the dip switch numbers together to total the number required. For example, DipSwitch 1 + 6 = 33. Your DMX channel would be 33.

Dip Switch	1	2	3	4	5	6	7	8	9
Channel #	1	2	4	8	16	32	64	128	256

When you move the slide control or digital control;

0 – 5%	=	Off
6– 80%	=	Volume Control
80 – 100%	=	Maximum Blast Output

"Input" and "Output" designations on the DMX plugs are arbitrary (i.e., you can use the input plug for output and vice-versa). It is not necessary to attempt converting your DMX line's connector to female/male to match the appropriate socket on the plug. As long as it is looped in/out, it will work.

6. Service and Maintenance

Care of your FogMax™ will give you years of service. Note: cleaning your unit is going to pay off in constant good performance.

1. Dry all areas on the exterior of the machine once it is cool. Clean with a soft cloth to remove any fog fluid from inside the fluid compartment or outside area.
2. Do not store with fog fluid inside. When finished with the machine, clean the tube and pump by operating the unit while running a pint of 5% vinegar/distilled water mix through the pump and then rinse with a pint of distilled water. When finished, water should remain in the line for storage.
3. Do not transport or ship with fog fluid inside the machine.

7. Technical Data

FogMax™ Technical Data P/N 100090/100095	
Type of Fog	Thick, white, dry, low-ground fog
Size	22" x 9" x 11" (56cm x 23cm x 28cm)
Weight	26 lbs (12 kg)
Shipping Box Size	26" x 13" x 16" (66 cm x 33 cm x 41 cm)
Shipping Weight	33 lbs (15 kg)
DMX	Built in 1-channel DMX
CITC SmartFog™ Fluid (water-based)	P/N 150460 60 Minute Longest-Lasting P/N 150450 45 Minute Long-Lasting P/N 150410 25 Minute Regular P/N 150490 3 Minute Low-Ground P/N 150491 1 Minute Quick
Warm Up Time	10-12 minutes
Continuous Fog	Runs continuously without shutdown
Heating unit	1500 watts
Remote Timer Included:	0-100% output control for continuous fog 0-100% fog output control when using cycle-timer 100% output on manual momentary "BLAST" button Cycle-timer = 1-11 seconds. "on", 0.2 - 5 minutes. "off"
Electrical Supply	120 VAC, 15 A, 60 Hz or 230 VAC, 8 A, 50 Hz
Breaker	120VAC: 15A ; 230VAC: 7A
Limited Warranty	One Year

Rev: 03/15/2018

8. One Year Limited Warranty

Model: _____ Purchased on (date): _____

Serial number: _____ Purchased from: _____

Congratulations!

You can now look forward to many years of reliable operation and outstanding performance. Thank you for making CITC your personal choice in special effects equipment. Please take a moment to **fill out the top of this warranty**, and then keep it – with the receipt – in a safe place.

If you would like to receive information about specials, sales, and new products, please log on to www.citcfx.com and click on the “Contact Us” link.

We appreciate your business, and wish to provide you with a quality product that will serve you for many years to come. Once again, thank you for choosing CITC, and enjoy your new entertainment product!

LIMITED WARRANTY CONDITIONS

This limited warranty guarantees to the original purchaser that this product shall be free of defects in material and workmanship, under normal use, for a period of one year from the date of purchase shown on the sales receipt. This warranty covers parts and labor providing the product is returned to CITC in the original shipping carton and packaging. The warranty for electrical is a (90) NINETY DAY limited warranty.

Damage resulting from shipping, accidents, misuse, negligence, unauthorized repairs or modification is not covered by this warranty. Using any fluid other than what is recommended for this machine will void warranty. No liability is accepted for injury or for loss, damage or expense resulting from any interruption whatsoever in the operation of the product or from any consequential loss arising there from. No liability is accepted for normal wear and tear.

We wish to satisfy YOU, our customer, and have implemented many measures to prevent problems and assure customer satisfaction. However, should you need a missing part or have a functional problem with your product, please call:

(888) 786-CITC, from 7:30 am – 4:00 pm (Pacific Time), Monday – Friday, except for holidays. Our customer service department will respond to your problems immediately.

Subject to the following conditions, CITC will repair any defect or fault in the unit if it is caused by a proven factory defect within one year of delivery to the end user. Insignificant deviations of the regular product quality does not guarantee replacement rights, nor do faults or defects caused by water, by generally abnormal environment conditions or Force Majeure:

1. Faulty parts or equipment will be repaired or replaced (manufacturer's choice) with correct parts. Faulty units must be shipped to CITC at customer's expense. Call for an RMA# - AN RMA# MUST COME WITH THE UNIT. Payment arrangements for

repair must be made before receiving your RMA#, in case the unit is not covered under this limited warranty.

2. Repairs/replacements will only be made with the approval of the customer.
3. Exposure to outside elements voids Warranty. Unit cannot be used outdoors or in wet weather without complete protection against the elements. Even then, high salty or humid conditions will cause instant corrosion of connectors and will void Warranty.
4. The customer loses all rights for limited warranty services if any repairs or adjustments are done to the units by unauthorized persons, and/or if spare parts are used, which are not approved by CITC. The right of limited warranty service is also lost if a fluid other than appropriate CITC fluid has been used or if units are sent in without first emptying the equipment of fluid.
5. Freight costs to and from CITC, when under the limited warranty services, are the responsibility of the customer. Customer must place appropriate insurance on return of product. However, if product is returned due to factory defect within the first year, CITC will cover the cost of returning the repaired unit to the customer.
6. Limited warranty services do not cause an extension of the limited warranty period or the start of a new limited warranty period. The warranty of replaced parts ends with the limited warranty period of the whole unit.
7. Further claims, especially for damages, losses etc. outside the unit are excluded.

Send unit to: CITC
RMA # XXXXXXXX
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