

---

---

# **StarHazer III™**

## **Operating Instructions**

---

---

**P/N 100045/100046**  
**(120 VAC/230v)**

## **Thank you for purchasing this StarHazer III™**

- **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 haze effects if you care for and maintain your StarHazer™III.**

**CITC**

**1420 80th St. S.W., Ste. D**

**Everett, WA 98203**

**(888) 786-CITC 425-776-4950**

**Fax 425-776-5129**

**[www.citcfx.com](http://www.citcfx.com)**

## **Contents**

<b>1. Set of Equipment Supplied</b>	<b>3</b>
<b>2. Accessories</b>	<b>3</b>
<b>3. Description</b>	<b>4</b>
<b>4. Safety Instructions</b>	<b>5</b>
<b>5. Operating the StarHazer™III</b>	<b>5</b>
<b>5.1 Selecting the Location</b>	
<b>5.2 Electrical Power Requirements</b>	
<b>5.3 Hooking things up</b>	
<b>5.4 Operating the machine</b>	
<b>5.5 Troubleshooting</b>	
<b>5.6 Notes on Optional DMX Control</b>	
<b>6. Service and Maintenance</b>	<b>8</b>
<b>7. Technical Data</b>	<b>9</b>
<b>8. Limited Warranty Conditions</b>	<b>10</b>

## **1. Set of Equipment Supplied**

- **StarHazer III™**
- **Remote Cycle-Timer Controller w/XLR 3 pin 25' (7.6m)**
- **DMX Control on-board with in/out**
- **Power Cord**
- **Instruction booklet**
- **Extra fuse in fuse release holder**

## **2. Accessories**

- **CITC's Fluid**
- **Wireless Remote Control to 100' (30m) Receiver & Sender (P/N 250010)**
- **StarHazer III™ roadcase**

**Please check whether all the products you ordered are supplied.**

### 3. Description of the StarHazer III™

- o The StarHazer III™ has new DMX control with 5 pin in/out panel mounts that are protected by the protruding sidewalls. The unit now has 3 pin XLR remote with locking connector. The improved, higher pressure compressor provides finer haze while using less fluid.
- o Haze from the StarHazer III™ Haze Machine is completely different from any other hazer on the market. It operates without the use of a heating element (heating elements that create a heated chemical reaction for haze). The fire departments have been extremely happy to hear that this machine won't catch on fire if allowed to run empty, because it is made to operate without any type of heater or other fire causing generation.
- o Internally, the atomizer breaks up a high formula into such tiny particles, that it produces an opaque haze that is filtered several times to remove larger size particles (over 20 microns) before it is mixed with the ambient air thrown 25' from the machine.
- o Because lights and lasers look best when fog is evenly distributed throughout the room, the hazer has two built in circulation fans that circulate the air from the room with the haze. This atmospheric effect lasts approximately 20 minutes and is evenly dispersed from floor to ceiling, wall to wall.
- o When the StarHazer III™ Haze Machine timer on the remote control (included) is used, you have 100% less chance of ever having residue from over-hazing (turn it on and leave). Now you can just set the timer and the unit will automatically, constantly turn on/off your unit when the timer comes on.

## 1. Safety instructions

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

- o **Risk of electrical shock-** Never open the machine without disconnecting power lead first! 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/10 A circuit for operation. During operation a circuit should be dedicated to the StarHazer III™ Haze Machine. If you have any doubts about the capacity or grounding of your existing circuits, consult a qualified electrician.
- o Operating the pump with other than CITC hazing fluid is not covered under warranty.
- o Be sure area around hazer is dry before applying electrical power.
- o Make sure that your unit is pointed in a direction that leaves a 12ft (4m) open area out in front. Place the front of the machine away from direct contact with electrical instruments and people. There is no heat in this unit.
- o Fluid is very slippery when spilled. Care in keeping any drips or spills cleaned up is necessary.
- o Do not store StarHazer III™ Haze Machine in freezing conditions. Below 50° F it will not start.

## 5. Operating the STARHAZER III™ Haze Machine

### 5.1 Selecting the Location

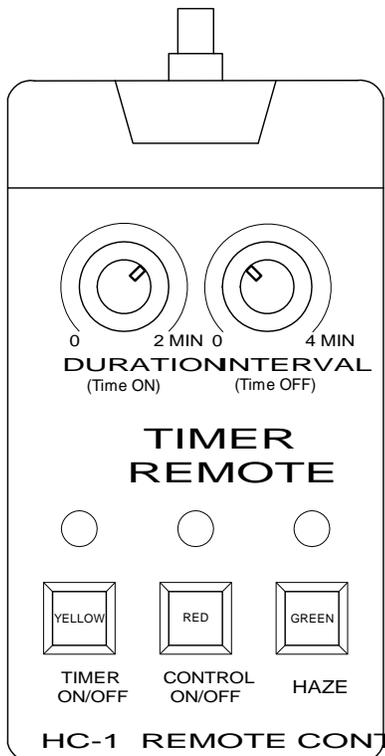
Secure a good location for the machine to rest solidly on the floor so that the output of the machine will not be restricted. Make sure that your unit is pointed in a direction that leaves an open area out in front and can travel 12ft (4m) without restriction. Place the front of the machine away from direct contact with electrical instruments and people. Always allow plenty of air circulation to allow the haze to expand, separate and enlarge. Proper circulation of the haze is important. Place the hazer at the opposite side of the room from the return air-conditioning duct to help cause the haze to circulate evenly, without curls of haze or hot spots. For large rooms, use a long-distance fan like the Director Fan™ or Director Jr. Fan™. This evens the haze for quicker balance. You will quickly see the double fans are filtered, and spread haze more rapidly.

### 5.2 Electrical Power Requirements

This machine requires a separate circuit for operation. The StarHazer III™ Haze Machine should have a circuit dedicated to it. If you have any doubts about the capacity or grounding of your existing circuits, consult a qualified electrician. Do not add other equipment on this circuit.

### 5.3 Hooking things up

1. Pour ½ - 1½ quarts hazing fluid into top fill spout. Use of any other fluids will void your warranty. **Do not overfill!** Check fill window to see that the fluid does not go past fill arrow.
2. Check for proper matching voltage outlet. Plug in cord provided.



### 5.4 Operating the machine

1. Allow a 12' open area around machine for circulation of haze (do not enclose).
2. The upper switch located next to the power switch says "Direct" and "Controls". Place the switch in upper position for operation of the machine without the use of any controls – controls that are plugged in will not work when the switch is "up" on "Direct". When wanting any of the controls like the remote or DMX to operate, place the switch "down" to use.
3. When the power switch is turned on, the light on the switch will illuminate. Remote, DMX or 100vac control plug must be plugged in to operate machine.
4. For cycle-timing of the haze, you must use the remote control. The red "on/off" button must be depressed for "Timer" or "Haze" functions to work. The fan comes on when the timer cycle begins and goes off when the cycle ends. The fan goes on or off each time you press haze. The absolute cleanest haze is when you keep

a light haze by using the cycle-timer. The haze from the StarHazer III™ Haze Machine is recommended to be used for 10-20 minutes initially (depending on the size of the auditorium), and then “on” for up to 2 minutes every 1 – 4 minutes “off” thereafter, so as not to set off smoke alarms in laser games, night clubs, or equally sized entertainment facilities. Adjust as desired.

5. If continually left on, check fluid level every 4 hours. Caution: Over haze of facility is difficult to clear. Wait 20 minutes after each application at first to be sure of density.
6. The built-in filter continually works to provide only the smallest droplets of haze, reducing the possibility of residue. Overall use of fluid is reduced dramatically because of this feature.
7. When finished, wipe machine with a clean cloth and store covered to prevent dust and dirt from accumulating on the machine. Vacuum or clean filter on fans by removing plastic housing and rinsing or washing filter with soapy water. Dry. Replace.
8. If shipping by a common carrier, **you must empty all fluid from the unit** by opening top cap, tipping upside down and moving with a slight rocking motion clockwise over a drain basin or funnel into a bottle. Reusing this fluid requires filtering through a nylon. Always check used fluid for clarity. If separation is seen, discard and fill with fresh fluid.

## 5.5 Troubleshooting

### 1. If the fuse blows

- If hazer stops working, first check the fuse located in a drawer under the IEC plug. Remove the drawer with a screwdriver, slide drawer straight out (completely removing drawer), the fuse is located on the end. If blown, a replacement fuse is located inside the box next to it. Use old fuse to push out new fuse and snap into position .
- Inadequate extension cords can result in low line voltage, which causes the fuse to blow. Check cords for proper size and condition (14 gauge AWG or larger for 120v). Machine should be level to operate properly.

### 2. If the compressor starts to work, then stops and pops the fuse

You may have a cold unit. Below 55° F is too cold and will not start. Replace the fuse, warm the unit with a hair dryer, light bulb, or just let it sit in a warmer environment. Once it is warmed up to 65° F (18.3 C), try again.

### 3. If there is no haze

- If compressor is running, but no haze is coming out, be sure you have used the correct hazing fluid.
- Check haze fluid level. (it should be no higher than “Full” line indicated). Overfilling causes reduced haze and high amounts of residue. Be certain of fluid level. Empty completely if overfilled and run empty to clear head.

## 5.6 Notes on DMX operation

Each DMXed unit will occupy a unique DMX address on the DMX chain. By adjusting the dip switches on the side of the DMX control box, the user may assign one address to the machine, giving you on/off control with one DMX channel (there is no timer on this DMX).

Step 1). Attach the DMX 5 pin plug to the upper remote female connector located on the back of the hazer.

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, the unit will turn on at approximately the 50% setting.

“Input” and “Output” designations on the DMX 5-pin XLR connectors are arbitrary (i.e., you can use the input plug for output and visa-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 StarHazer III™ will give you years of service. Note: cleaning your unit is going to pay off in constant good performance.**

1. When finished, wipe machine with a clean cloth and store covered to prevent dust and dirt from accumulating on the machine. Clean any spilled fluid from spout area.
2. Reusing this fluid requires filtering through a nylon. Always check used fluid for clarity.
3. Periodically vacuum dust from fan filter. If filter becomes clogged, change or wash in soapy water by popping off filter cover, removing filter foam, and then replacing.
4. Observe the filter foam on the front of the machine. If it appears that it is clogged or dirty, it must be cleaned with soapy water. Remove first by sliding it out from under the hold-down screws. Wash. Dry. Replace.
5. Do not transport or ship with fog fluid inside the machine. If shipping by a common carrier, **you must empty all fluid from the unit** by tipping upside down and moving clockwise over a drain basin. Put unit in a plastic bag to prevent dripping in box. Most carriers will return leaking units.

# STARHAZER III

## 7. Technical Data

STARHAZER III™ Technical Data P/N 100046 (230V P/N 100046)	
Type of Haze	Odorless, even, transparent, long-lasting
Weight	44 lb (19.95 kg)
Size	24½" x 12" x 12½" (62.2 cm x 30.5 cm x 31.8 cm)
Shipping Weight	52 lb (23.6 kg)
Shipping Box Size	31" X 15" X 15"
DMX	DMX on board 5 pin XLR in/out
Continuous haze	Yes, best with cycle timing.
Duration	Haze lasts 20 minutes.
Fuse	120 VAC: 8A – 250 V, 5x20 mm 230 VAC: 5A – 250 V, 5x20 mm
Electrical Supply	120 VAC: 8A – 250 V, 5x20 mm 230VAC: 5A – 250 V, 5x20 mm
Limited Warranty	Five year limited warranty on tank and compressor, 90 days on electrical components
Remote Control	On/off, cycle timer 25' cord, 3 pin XLR in/out connectors, 0-60 s "On", 0-4 m "Off"
Added Features	<ul style="list-style-type: none"> <li>*Direct/Manual operation switch</li> <li>*Operate without remote or DMX</li> <li>*Dual vane higher distance output</li> <li>*protected control panel</li> <li>*Dual fans 2 x output</li> <li>*Dual easy clean filters</li> <li>*Quiet operation insulation</li> <li>*Added relays for higher performance</li> <li>*Shock absorbing stand-off's</li> <li>*Baffled air circulation</li> <li>*Up angled vane output-quick haze</li> </ul>

## 8. 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.

Please have the following information available when you call:

Model and Serial Number

Where and when the product was purchased

Nature of the problem

---

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 will be repaired or replaced (manufacturer's choice) with correct parts. Faulty units must be shipped to CITC at customer's expense. An RMA# must come with the unit.
2. 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 to in with full fluid bottles.
3. 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 30 days of receipt, CITC will cover the cost of returning the repaired unit to the customer.
4. Limited warranty services do not cause an extension of the limited warranty time or the start of a new limited warranty time. The warranty of replaced parts ends with the limited warranty time of the whole unit.

5. If a defect/fault can not be repaired by us in a satisfactory time, we will, within 30 days after sale of the unit, either:

Replace the whole unit for free or take back the whole unit and refund the purchase price.

6. Further claims, especially for damages, losses etc. outside the unit are excluded.
7. Your limited warranty coverage is based on completion of the warranty card and returning it with your proof of purchase within 30 days of purchase.

**Your limited warranty coverage is based on completion of the warranty card and returning it with your proof of purchase within 30 days of purchase. If you should send the unit for service, do not forget to remove any liquid from the fluid bottle, and place unit in original box. Obtain your RMA# by calling CITC. Payment arrangements for repair must be made before receiving RMA # in case unit is not covered under Limited Warranty.**

**Send unit to:**

**CITC  
RMA # XXXXXXX  
1420 80<sup>th</sup> Street SW Suite #D  
Everett, WA 98203  
Tel: (888) 786-CITC or (425) 776-4950  
Fax: (425) 776-5129  
Website: [www.citcfx.com](http://www.citcfx.com)  
E-mail: [info@citcfx.com](mailto:info@citcfx.com)**



1420 80<sup>th</sup> St. SW, #D, Everett, WA 98203  
425-776-4950 ✧ FAX: 425-776-5129  
[www.citcfx.com](http://www.citcfx.com) ✧ [info@citcfx.com](mailto:info@citcfx.com)