

MT-ELECTRONIC

AQUA HAZE 800

User Manual

- English



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MT-ELECTRONIC AQUA HAZE 800

User Manual

1. Introduction

Please read all the user manual before operating the machine, and place the manual where the user can refer to it at all time. The manual includes how to install and operate the machine under safe condition and explain all the labels printed on the machine. If you encounter any problem, contact your local MT-ELECTRONIC dealer for assistant immediately.

2. Safety Information

 DANGER	If the danger is not avoided, it will cause death or serious injury
 WARNING	If the warning is not heeded, it can cause death or serious injury.
 CAUTION	If the precaution is not taken, it may cause minor or moderate injury.



DANGER

- Must connect the machine to the correct rated voltage or it might lead to an electrical shock or a burn and may cause serious consequences.
- Must connect the machine to a protected circuit and ensure it is properly grounded to avoid the risk of electrocution. For grounding instruction, please refer to Appendix I on page 09.
- Do not operate the machine with a bundled power cord, it could lead to a fire hazard.
- When operating the machine, do not point at people, animals, or fire.



WARNING

- Please operate the machine on a flat, level hard and well ventilated surface area, reserve at least 50cm space around the machine and make sure there is no flammable gas or material nearby.
- Do not disassemble, repair or modify the machine, it may cause damages, malfunction, risk of electrical shock or result in fire.
- The machine can only be operated by adults or professionals, is not intended for use by person with reduced physical sensory, mental capabilities, or lack of experience and knowledge including children.
- Do not leave the machine running unattended, make sure all powers are off when leaving.
- Children should be supervised to ensure that they do not play with the machine.
- Do not use the machine upside down or tilt it, it might cause damages or malfunction.
- Please store the fluid inside in a well ventilated area without direct sunlight and keep out of reach of children. In case of eye contact or accidentally swallow the fluid, please seek medical attention immediately.



CAUTION

- Keep the machine dry at all time. The machine is not waterproof, do not expose the machine to water, rain, or moisture environment.
- Please make sure the power outlet is not damaged or loose before plug in the power cord.
- If the power cord is damaged, it must be replaced by MT-ELECTRONIC or its local dealers, otherwise the warranty will be void.

- Before operating the machine, please make sure the fluid is filled in the fluid tank to avoid the pump in idling state which could lead to overheat or malfunction.
- Before transporting the machine, please make sure the fluid is drained and tank is empty. (Recommend using original package)
- The machine is for indoor use only.
- Do not operate the machine in any area with unstable voltage.
- If you experience strange sound or malfunction, turn off the power and unplug the power cord immediately and contact your local MT-ELECTRONIC dealer for assistant.
- Do not contact any moving part.
- Only use accessories recommended or sold by MT-ELECTRONIC.
- Please make sure the power is off when not using the machine and unplug the power cord if not intend to use for a long period of time.
- To disconnect, turn all controls to the off position, then remove plug from outlet.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Unplug from outlet before servicing or cleaning.
- Do not operate the machine with a damaged cord or plug, or after the machine malfunctions or is dropped or damaged in any manner. Return machine to the nearest authorized service facility for examination, repair, or electrical or mechanical adjustment.
- To ensure the lifespan of the machine, please only use the fluid manufactured by MT-ELECTRONIC, do not use other fluid or additive, otherwise it may clog the heater and cause malfunction.

Before operating the machine, please read all warning labels on the machine, description as below;

WARNING!

DISCONNECT POWER BEFORE CHANGING FUSE.
 USE ONLY WITH AUDLT SUPERVISION.
 DO NOT OPERATE WITHOUT LIQUID.
 FOR INDOOR USE ONLY. KEEP DRY.
 NO USER SERVICEABLE PARTS INSIDE.

WARNING!

HOT NOZZLE! KEEP AT LEAST 50 CM DISTANCE

CAUTION!

ONLY USE MANUFACTURER DESIGNATED FLUID.
 NEVER ADD FLAMMABLE SUBSTANCES

3. Package Contents & Inspection

Immediately upon receiving the machine, carefully unpack the carton, check the content to ensure it is the correct model and all parts are included. If any part appears to be damaged or missing during transportation, please contact your local dealer and return in original package for inspection.

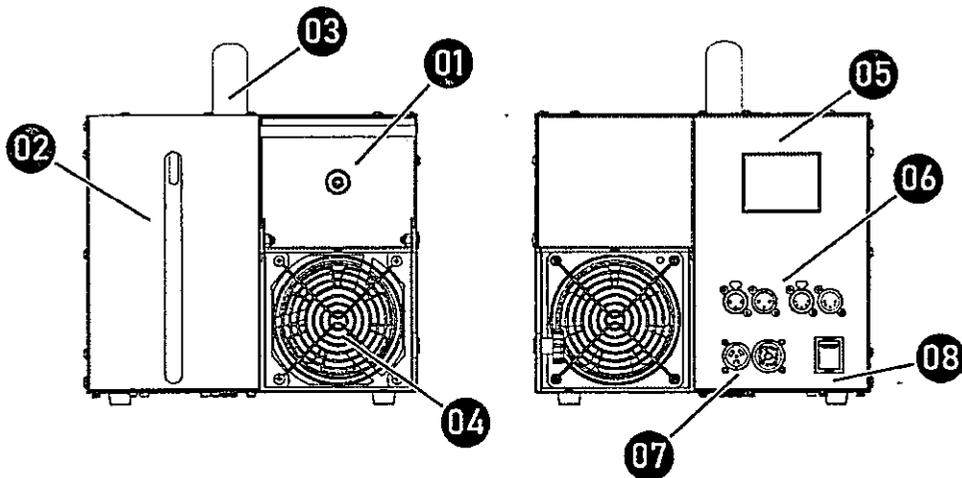
3.1 Package Contents

- 1 x AUQA HAZE 800
- 1 x Neutrik powerCON Power Cable
- 1 x User Manual

3.2 Optional Accessories

Item Code	Description
N/A	N/A

4. Machine Details



01. Nozzle	05. TFT-LCD Touch Screen Display
02. Fluid Tank	06. XLR 3-Pin/5Pin Connector (DMX)
03. Handle	07. Neutrik powerCON Connector In/Out (Power)
04. Adjustable Fan	08. Two in One Power & Breaker Switch

5. Technical Label Information

Please read the technical label information on the back of the machine before operating it.

1. Model Name	5. Breaker/Fuse
2. Input Voltage	6. QR CODE for User Manual
3. Frequency	7. Serial No.
4. Rated Power	

6. Fog Fluid

	CAUTION Always turn off the power before filling the fluid tank. Do not add flammable liquid to the fluid tank. If fluid gets inside the machine, please contact your local MT-ELECTRONIC dealer for assistant.
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- Only the fog fluid manufactured by MT-ELECTRONIC can be used, do not mix or dilute the fog fluid. Due to improper storage or using other fluid might clog the heater and cause malfunction.
- The machine is tested and calibrated with the specific fog fluid to get the best performance.
- Please empty the fluid in the tank before switching to another fluid to avoid mixing.
- The warranty on your fog machine will be void if you use fog fluid not manufactured by MT-ELECTRONIC.

7. Setting and Manual Operation

	WARNING Machine falling off might cause serious injury, please make sure it is secure and firm on the overhead.
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- Step 1. Place the machine on a flat, level hard and well ventilated surface area and reserve at least 50cm open space around the machine, and make sure there is no flammable gas or material nearby;
- Step 2. Fill the fluid tank with MT-ELECTRONIC approved fog fluid, and make sure the tube is not twisted;
- Step 3. Connect the machine to the power outlet. Please read the technical label on the back of the machine and make sure the power outlet is the correspond to the rated voltage for the machine;
- Step 4. Turn on the machine, heating process takes approximately 4.5 minutes. Once the machine has reached operating temperature "100%" (Top Left Hand Corner), the machine is ready for operation;
- Step 5. To activate fogging in manual mode, please press "Manual" and adjust output and fan speed according to your need then press start and press again to stop fogging;
- Step 6. Or to activate fogging in Timer mode, please press "Timer" and adjust "Interval"; "Duration"; "Output" and "Fan Speed" according to your need, then press start and press again to stop fogging;
- Step 7. Press "DMX" and adjust according to your need;
- Step 8. Press "MENU" and adjust according to your need;
- Step 9. To turn off the machine, please make sure the machine is not operating then turn of the power. If you will not use the machine a long period of time, please remove the power cord.

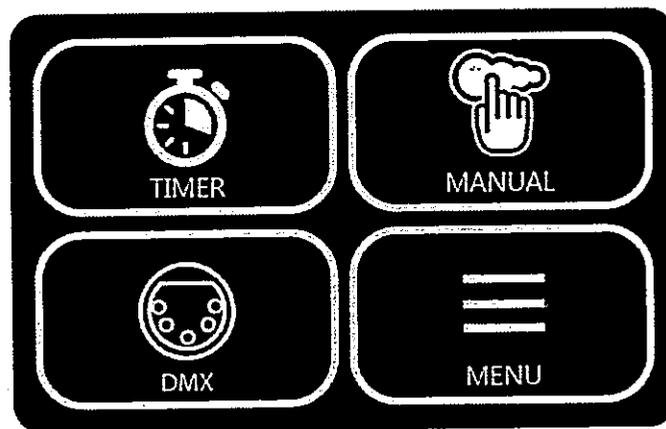
8. Control Settings

AUQA HAZE 800 can be operated in the following modes. The machine can only accept 1 type of signal at a time.

- Manual
- Timer
- DMX512

8.1 Control Panel Description

AUQA HAZE 800 can be operated with the onboard TFT-LCD Touch Screen.



Icon	Operating Method	Action
✓	Press	Confirmed Selection
◆	Press	Adjust Values
↶	Press	Back to Last Page
▶	Press	Active
⏸	Press	De-Active
⚙	Press	Enter Configuration
 (Green Background Color)	N/A	Selected Mode in Action

8.2 Control Menu

Main Menu	Item	Description	
Timer	Interval	1 – 999 sec	
	Duration	1 – 999 sec	
	Output Level	1 – 100%	
	Fan Level	20 – 100%	
Manual	Output Level	1 – 100%	
	Fan Level	20 – 100%	
Menu	Information	Software Version	
	Setting	LCD BackLight	High/Mid/Low/AutoOff
		Quick Start	On/Off
		Self Clean Mode	Countdown 180 Sec

9. Machine Status Description

9.1 Machine Status with TFT-LCD Touch Screen Display

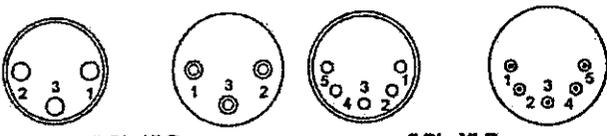
Screen	Description
AC Frequency	Input Frequency
Manual Output 100%	Fog Output level at Manual Mode
Interval 1 - 999 sec	Running at Timer mode, Interval time
Duration 1 - 999 sec	Running at Timer mode, Duration time
DMX-512 Add: XXX	Current DMX 512 channel
Self-Cleaning Mode	Count Down 180 sec and Machine in Sleep Mode (without DMX Singal)
Warming Up 10 %	Heating up 0 - 100% (Upper Left Corner)
Heater Overheat!	Heater is Overheat
Heater Fault	Heater Malfunction
Thermal Line Off	Thermal Line Break Off
Line Reverse	Thermal Line Reverse Connection
Voltage Error	Incorrect Voltage

**If LCD control panel display “Warning”, please stop operating and turn off the machine immediately. Please contact your local MT-ELECTRONIC dealer for assistance.

10. DMX Connection

10.1 DMX Connector Pin Assignment

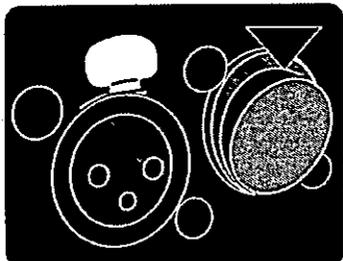
The machine provides XLR 3-Pin/5-Pin connector for DMX connection. The diagram below indicates pin assignment information;



3 Pin XLR 5 Pin XLR

Pin	Function
1	Ground
2	Data-
3	Data+
4	N/A
5	N/A

** There is a protection cap on DMX IN, please remove it with your finger before operation.



10.2 DMX Channel Function

This machine provides 2 channels DMX and 3 modes to choose, please see chart below.

Channel Mode		DMX Value Range	Function
Channel 1	Fog Output Level	0 - 5	Off
		6 - 255	1 - 100%
Channel 2	Fan Speed	0 - 50	20%
		51 - 255	21 - 100%
Channel Mode		Function	
Mode 1	Channel 1	Ch1 and Ch2 Sync Output	
Mode 2	Channel 1	Ch1 and Fan Speed at 100%	
Mode 3	Channel 2	Ch1 Fog Output and Ch2 Fan Speed	

11. RDM Function

The AUQA HAZE 800 is RDM enabled, allowing control system to configure, monitor and manage. See below table for supported RDM categories and parameters.

11.1 RDM UID

ESTA Manufacturer ID (16-bit)		Device ID (32-bit)			
Fixed		Fixed		RDM UID Range: 0x0000 ~ 0xFFDC	
0x1E	0xD8	0x00	0x0F	0x00	0x01

※RDM UID can be set in Factory Mode

11.2 RDM Parameter ID Defines

GET Allowed	SET Allowed	Category	RDM Parameter ID's	Value	Required
		Network Management	DISC UNIQUE BRANCH	0x0001	0
			DISC MUTE	0x0002	0
			DISC UN MUTE	0x0003	0
0		RDM Information	STATUS MESSAGES	0x0030	⊙
0			SUPPORTED PARAMETERS	0x0050	0
0		Product Information	DEVICE INFO	0x0060	0
0			PRODUCT DETAIL ID LIST	0x0070	
0			DEVICE MODE DESCRIPTION	0x0080	
0			MANUFACTURER LABEL	0x0081	
0	0		DEVICE LABEL	0x0082	
0			SOFTWARE VERSION LABEL	0x00C0	0
0	0	DMX512 Setup	DMX PERSONALITY	0x00E0	
0			DMX PERSONALITY DESCRIPTION	0x00E1	
0	0		DMX START ADDRESS	0x00F0	0
0	0	Control	IDENTIFY DEVICE	0x1000	0

12. Service and Maintenance

	DANGER	Disconnect the power cord before starting maintenance operation
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- Always keep the machine clean.
- Can use air compressor, vacuum or a soft brush to remove the dust on the machine.
- Can use a slightly damp cloth to clean the casing.
- Before store the machine, please make sure the machine is completely cool down to avoid moisture inside causing malfunction.
- It is recommended to run the machine at least once a month in order to maintain the machine's best performance and output condition.
- Excessive dust and build up liquid residue will reduce the performance and cause overheat.

12.1 Breaker Reset (2 in 1 Power Switch)

The 2 in 1 power switch combines power and breaker function.

Please follow below steps to reset the breaker;

Step 1: Please switch to the OFF position;

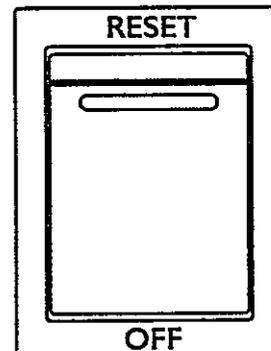
Step 2: Wait 60 seconds;

Step 3: Flip switch to ON position.

****If the breaker (switch) still jumps off after reset, please contact your local MT-ELECTRONIC dealer for assistance.**

Breaker Specification

120/240V = 9A 250V



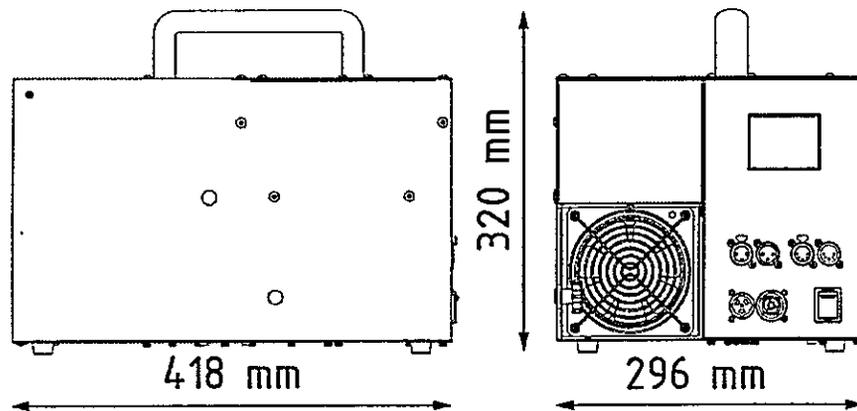
13. Technical Specifications

AQUA HAZE 800	
Rated Voltage	US Model : AC 100-120V, 50/60Hz 6A EU Model : AC 220-240V, 50/60Hz 3A
Rated Power	700W
Warming-up Time	4.5 minutes (Approx.)
Fluid Consumption	3 ml/min (100% Output)
Operating Time	16 hrs at Max. Output
Fluid Tank Capacity	3L
Compatible Fluid	N/A
Ambient Temp. Range	0°C – 40°C (32°F – 104°F)
Control Methods	Manual · Timer · DMX 512
Interface	XLR 3-Pin/5-Pin Connector (DMX) · Neutrik powerCON Connector In (Power) · Neutrik powerCON Connector Out (Power)
DMX Channels	2 Channels
Included Accessories	N/A
Optional Accessories	N/A
Dimension	L 418 W 296 H 320 mm (L 16.5 W 11.7 H 12.6 inch)
Weight	12.6 kg (27.78 lbs.)

14. Warranty Disclaimer

We guarantee the merchandise manufactured by us to be free from defect in material and workmanship for a period of one year. Our obligation and liability under this warranty shall be restricted to repair or replacement at our factory or local authorized dealer. We assume no liability of the products that are improperly used or used for any purpose other than that for which they are specially designed. This warranty shall not apply to any merchandise which has been repaired, altered or assembled outside our factory in any way so as in our judgment to affect its performance, nor which has been subjected to misuse, negligence, or accident nor to any merchandise operated contrary to our printed instructions. We will not allow or be liable of any loss or any damages of any kind in connection with the use, sale, or repair of any merchandise purchased from us.

15. Machine Dimension

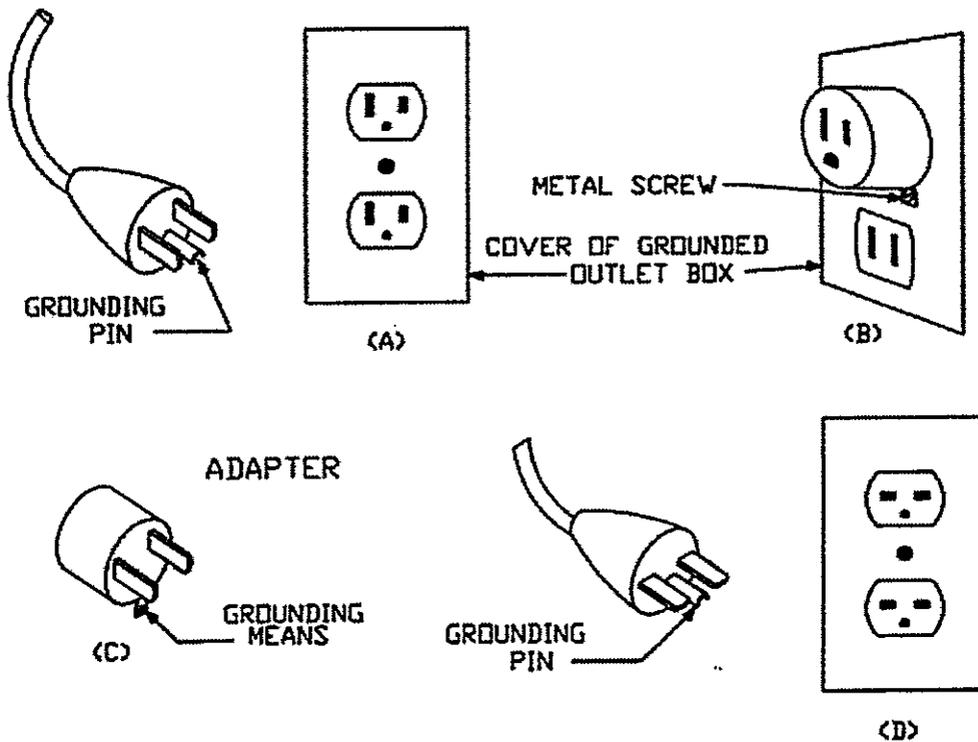


Appendix I – Grounding Instruction

This appliance must be grounded. In the event of malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

DANGER – Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the appliance is properly grounded. Do not modify the plug provided with the appliance – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance is for use on a nominal 120 V circuit, and has a grounding plug that looks like the plug illustrated in sketch A in Figure. A temporary adaptor, which looks like the adaptor illustrated in sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in sketch B if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear, lug, and the like, extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by the metal screw.



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