

Amhaze ECO

User Manual



Model ID: (120V): AMHAZEECO
Model ID: (220V): 220VAMHAZEECO

1. Edition Notes

The AmHaze ECO User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the AmHaze ECO as of the release of this edition.

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For best results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure the printer to scale the content accordingly.

Intended Audience

Any person installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

Disclaimer

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Document Revision

Go to www.chauvetprofessional.com for the latest version.

Revision	Date	Description
4	06/2025	Updated Menu Map

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1. Before You Begin

What Is Included

- AmHaze ECO
- Quick Reference Guide
- Seetronic Powerkon IP65 power cable

Claims

Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good condition.




If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier immediately, not Chauvet. Failure to report damage to the carrier immediately may invalidate the claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

Text Conventions

Convention	Meaning
1–512	A range of values
50/60	A set of values of which only one can be chosen
Settings	A menu option not to be modified
<ENTER>	A key to be pressed on the product's control panel

Symbols

Symbol	Meaning
	Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator.
	Important installation or configuration information. The product may not function correctly if this information is not used.
	Useful information.



Any reference to data or power connections in this manual assumes the use of Seetronic IP-rated cables.



The term “DMX” used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.

Connection of the control signal: DMX line

- The product has XLR sockets for DMX input and output.
- **Notice:** This control circuit is isolated and belongs to the Class 2 data port.

The control circuit has a cumulative leakage current of less than 3.5 mA.

Before You Begin

Safety Notes

These Safety Notes include important information about installation, use, and maintenance of the AmHaze ECO.

- **CAUTION:**
 - This product's housing may be hot when operating. Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
 - When transferring the product from extreme temperature environments, (e.g., cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow the product to fully acclimate to the surrounding environment before connecting it to power.
- **ALWAYS:**
 - Disconnect from power before cleaning the product or replacing the fuse.
 - Replace the fuse with the same type and rating.
 - Use a safety cable when mounting this product overhead.
 - Connect this product to a grounded and protected circuit.
 - Drain the tank before transporting the product.
- **DO NOT:**
 - Open this product. It contains no user-serviceable parts.
 - Leave any flammable material within 3.3 ft (1 m) of this product while operating or connected to power.
 - Connect this product to a dimmer or rheostat.
 - Operate this product if the housing, hoses, fluid tank, or cables appear damaged.
 - Operate this product outdoors or in any location where dust, excessive heat, water, or humidity may affect it (adhere to standards for the published IP rating).
 - Submerge this product (adhere to standards for the published IP rating). Regular outdoor operation is fine.
 - Permanently install outdoors in locations with extreme environmental conditions. This includes, but is not limited to:
 - Exposure to a marine/saline environment (within 3 miles of a saltwater body of water).
 - Locations where normal temperatures exceed the temperature ranges in this manual.
 - Locations that are prone to flooding or being buried in snow.
 - Other areas where the product will be subject to extreme radiation or caustic substances.
 - Use for space-heating purposes.
 - Touch the output nozzle on this product. It is very hot during operation, and it may remain hot for several hours after turning the product off.
 - Add anything to the fluid.
 - Drink the fluid.
 - Allow the fluid to contact skin or eyes.
- **ONLY** use Chauvet fluids.
- Depending on the amount of fog/haze generated, all fog/haze machines may set off smoke detectors.
- The maximum ambient temperature is 113 °F (45 °C). Do not operate this product at higher temperatures.
- The minimum startup temperature is -4°F (-20°C). Do not start the product at lower temperatures.
- The minimum ambient temperature is -22°F (-30°C). Do not operate the product at lower temperatures.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.
- In the event of a serious operating problem, stop using immediately.

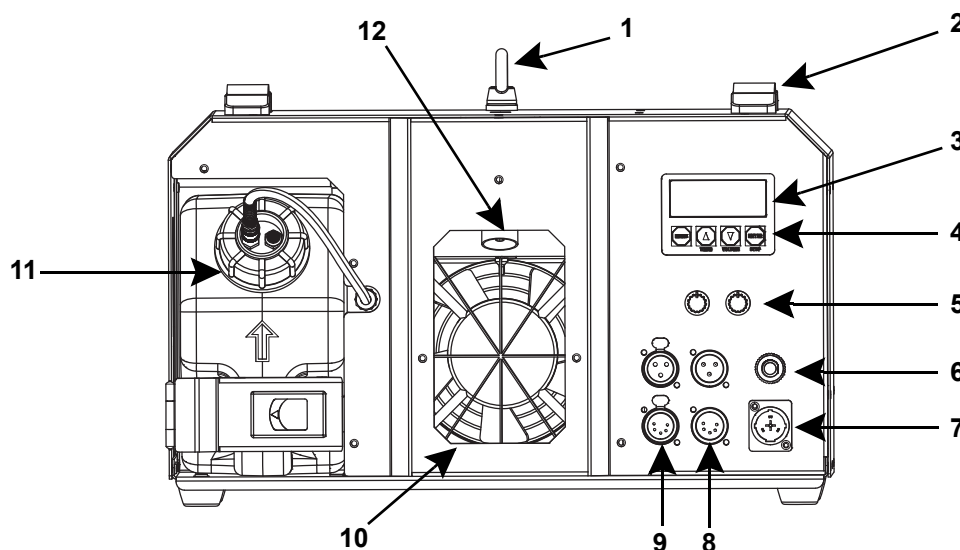


2. Introduction

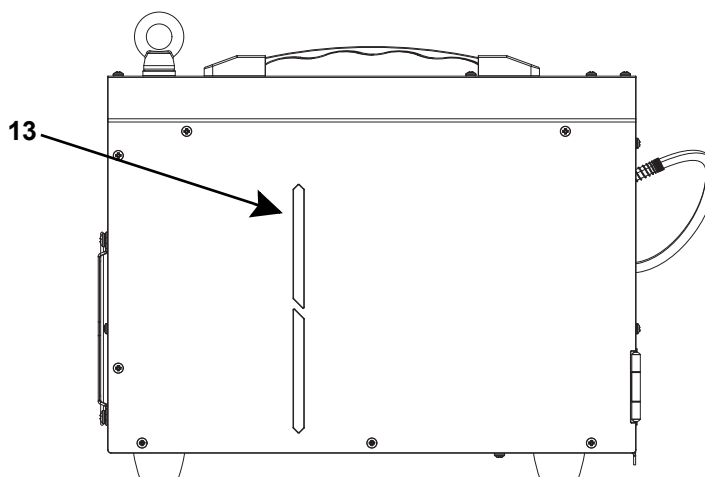
Features

- Professional water-based haze machine
- 30-sec heat-up time nearly eliminates wait time for operation
- Continuous output with no reheating required
- Tour-ready with M12 threaded insert for truss clamps
- Efficient fluid consumption lasts more than 8 hours on a single fluid container
- Achieve continuous variable haze output and blower speed, adjusted via DMX or manual knobs

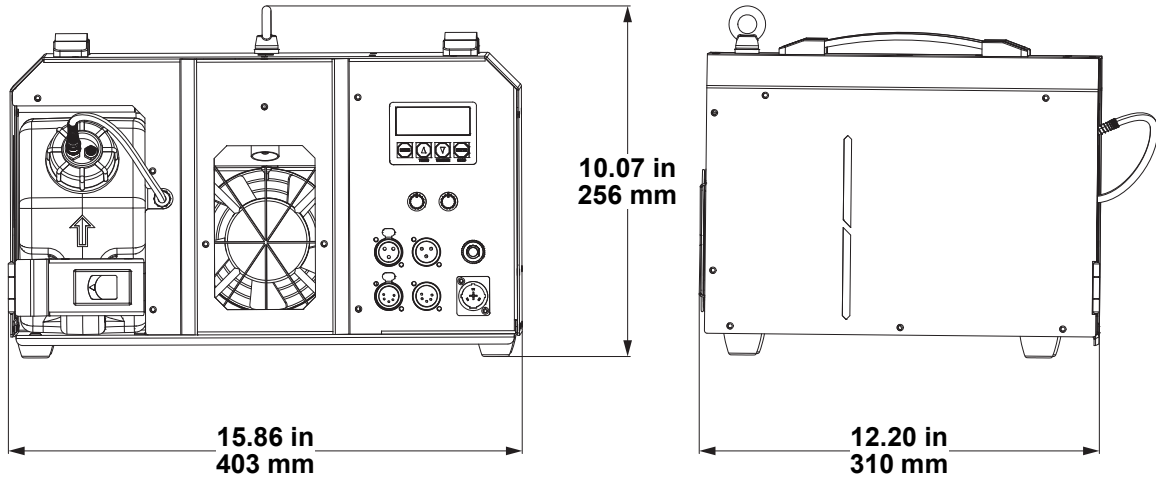
Product Overview



#	Name	#	Name
1	Safety loop	8	DMX in
2	Carrying handles	9	DMX out
3	LCD display	10	Blower fan
4	Menu buttons	11	Fluid reservoir
5	Manual knobs	12	Output nozzle
6	Breaker reset button	13	Fluid level indicator
7	Power in		



Product Dimensions



3. Setup

AC Power

The AmHaze ECO has a fixed power supply that works with an input voltage of either 120 VAC, 60 Hz or 230 VAC, 50 Hz, depending on the specific model.

To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.



- **Always connect the product to a protected circuit (a circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.**



Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

AC Plug

The AmHaze ECO comes with a power input cord terminated with a Seetronic Powerkon A connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with the product has no plug, or if the user needs to change the plug, use the table below to wire the new plug.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow or Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green

Resetting the Breaker

This product is equipped with a resettable circuit breaker. If the breaker trips, all sections of this product will lose power.

1. Remove the power cord from main power.
2. Allow unit to cool for 15 minutes.
3. After 15 minutes, user may attempt to reset the breaker by pressing the button with their finger.
4. Plug the product's power cord into the power outlet and continue using as recommended.

DMX Linking

The AmHaze ECO can link to a DMX controller using a 3-pin or 5-pin DMX connection. If using other DMX-compatible products with this product, user can control each individually with a single DMX controller.

DMX Personalities

The AmHaze ECO uses a 3-pin or 5-pin DMX data connection for the 3-channel DMX personality.



For more information about DMX standards, Master/Slave connectivity, or the DMX cables needed to link this product to a DMX controller, download the DMX Primer from the Chauvet website: www.chauvetprofessional.com.

Remote Device Management

Remote Device Management, or RDM, is a standard for allowing DMX-enabled devices to communicate bi-directionally along existing DMX cabling. Check the DMX controller's User Manual or with the manufacturer as not all DMX controllers have this capability. The AmHaze ECO supports RDM protocol that allows feedback to make changes to menu map options.

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the [Safety Notes](#). For our Chauvet Professional line of mounting clamps, go to <http://trusst.com/products/>.

Orientation

Always mount this product in a safe position, making sure there is adequate room for ventilation, configuration, and maintenance.

Rigging

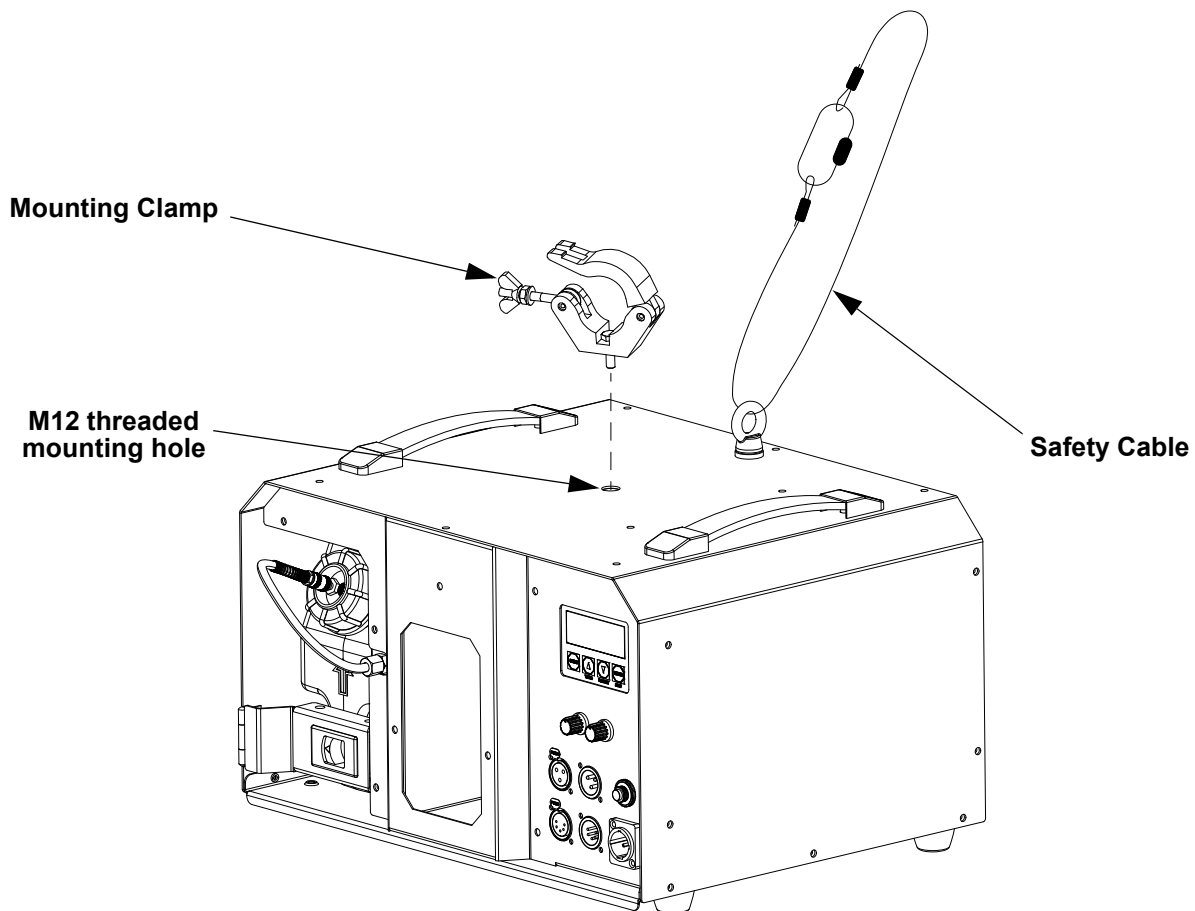
Chauvet recommends using the following general guidelines when mounting this product.

- Before deciding on a location for the product, make sure there is easy access to the product for maintenance and programming purposes.
- Make sure that the structure and attachment points can support the weight before hanging the product (see the [Technical Specifications](#) for weight information).
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity.
- When power linking multiple products, mount the products close enough for power-linking cables to reach.
- The bracket adjustment knobs allow for directional adjustment when aiming the product to the desired angle. Only loosen or tighten the bracket knobs manually. Using tools could damage the knobs.

Procedure

The AmHaze ECO comes with a bracket to which users can directly attach mounting clamps. Mounting clamps are sold separately. Make sure the clamps are capable of supporting the weight of this product. Use at least two mounting points per product. For the Chauvet Professional line of mounting clamps, go to <http://www.trusst.com/products>.

Mounting Diagram



4. Operation

Control Panel Description

Button	Function
<MENU>	Exits from the current menu or function
<UP/TIMER>	UP navigates upwards through the menu list and increases the numeric value when in a function. TIMER starts the timer controlled operation.
<DOWN/VOLUME>	DOWN navigates downwards through the menu list and decreases the numeric value when in a function. VOLUME triggers the pump to modify the output volume.
<ENTER/STOP>	ENTER enables the currently displayed menu or sets the currently selected value into the selected function. STOP turns the fog output off.
HAZE FAN knob	Manually controls the fan speed, 0–100%
HAZE VOLUME knob	Manually controls the haze volume, 0–100%

Control Options

Set the AmHaze ECO starting address in the 001–510 DMX range. This enables control of up to 170 products.

Programming

Refer to the Menu Map to understand the menu options. The menu map shows the main level and a variable number of programming levels for each option.

- To go to the desired main level, press <MENU> repeatedly until the option shows on the display. Press <ENTER> to select. The first programming level for that option will show on the display.
- To select an option or value within the current programming level, press <UP> or <DOWN> until the option shows on the display. Press <ENTER> to select. The selected value or the first option of the next programming level will show on the display.
- Press <MENU> repeatedly to exit to the previous main level.

Menu Map

Refer to the AmHaze ECO product page on www.chauvetprofessional.com for the latest menu map.

Main Level	Programming Levels	Description
Haze Output	1–100%	Haze volume 1–100%
Fan Speed	1–100%	Fan speed (slow to fast)
Timer Interval	5–600S	Sets the interval of haze outputs
Timer Duration	5–300S	Sets the duration of the haze output
DMX Address	1–512	Selects the DMX starting address
RDM-UID	-----	Unique identification number
Fluid Sensor	ON	Turns the fluid sensor ON or OFF
	OFF	
Auto Run Last Setting	YES	Automatically set the values to previous selections
	NO	
Self-Clean & Shutdown	YES	Press and hold <ENTER/STOP> when performing Self-Clean . Self-clean mode will begin counting down from 180 seconds to 4 seconds, then shut down after 3 seconds.
	NO	
Auto Shutdown	ON	Turns off all functions
	OFF	

RDM Chart

Refer to the AmHaze ECO product page on www.chauvetprofessional.com for the latest RDM chart.

Category	RDM Parameter ID's (Slots 21-22)	Value	Required	GET Allowed	SET Allowed	Chauvet	Detail
Network Management	DISC_UNIQUE_BRANCH	0x0001	✓			✓	
	DISC_MUTE	0x0002	✓			✓	
	DISC_UN_MUTE	0x0003	✓			✓	
	PROXIED_DEVICES	0x0010		✓			
	PROXIED_DEVICE_COUNT	0x0011		✓			
	COMMS_STATUS	0x0015		✓	✓		
Status Collection	QUEUED_MESSAGE	0x0020		✓		✓	Fluid level Low, Fail to Heat
	STATUS_MESSAGES	0x0030		✓		✓	Temperature
	STATUS_ID_DESCRIPTION	0x0031		✓		✓	
	CLEAR_STATUS_ID	0x0032			✓	✓	
	SUB_DEVICE_STATUS_REPORT_THRESHOLD	0x0033		✓	✓		
RDM Information	SUPPORTED_PARAMETERS	0x0050	✓	✓		✓	
	PARAMETER_DESCRIPTION	0x0051	✓	✓		✓	
Product Information	DEVICE_INFO	0x0060	✓	✓		✓	
	PRODUCT_DETAIL_ID_LIST	0x0070		✓			
	DEVICE_MODEL_DESCRIPTION	0x0080		✓			Amhaze ECO
	MANUFACTURER_LABEL	0x0081		✓			Chauvet Professional
	DEVICE_LABEL	0x0082		✓	✓		Amhaze ECO
	FACTORY_DEFAULTS	0x0090		✓	✓	✓	
	LANGUAGE_CAPABILITIES	0x00A0		✓			
	LANGUAGE	0x00B0		✓	✓		
	SOFTWARE_VERSION_LABEL	0x00C0	✓	✓			
	BOOT_SOFTWARE_VERSION_ID	0x00C1		✓			
	BOOT_SOFTWARE_VERSION_LABEL	0x00C2		✓			
DMX512 Setup	DMX_PERSONALITY	0x00E0		✓	✓	✓	
	DMX_PERSONALITY_DESCRIPTION	0x00E1		✓		✓	
	DMX_START_ADDRESS	0x00F0	✓	✓	✓	✓	
	SLOT_INFO	0x0120		✓		✓	
	SLOT_DESCRIPTION	0x0121		✓		✓	
	DEFAULT_SLOT_VALUE	0x0122		✓		✓	
	DMX_BLOCK_ADDRESS	0x0140		✓	✓		
	DMX_FAIL_MODE	0x0141		✓	✓	✓	Retain last DMX values Reset all values to DMX-000
	DMX_STARTUP_MODE	0x0142		✓	✓	✓	No function Prime pump
Sensors	SENSOR_DEFINITION	0x0200		✓		✓	Min Value(C) Max Value (C)
	SENSOR_VALUE	0x0201		✓	✓	✓	Display sensor value in C
	RECORD_SENSORS	0x0202			✓		

Category	RDM Parameter ID's (Slots 21-22)	Value	Required	GET Allowed	SET Allowed	Chauvet	Detail
Dimmer Settings	DIMMER_INFO	0x0340		✓			
	MINIMUM_LEVEL	0x0341		✓	✓		
	MAXIMUM_LEVEL	0x0342		✓	✓		
	CURVE	0x0343		✓	✓		
	CURVE_DESCRIPTION	0x0344		✓			
	OUTPUT_RESPONSE_TIME	0x0345		✓	✓		
	OUTPUT_RESPONSE_TIME_DESCRIPTION	0x0346		✓			
	MODULATION_FREQUENCY	0x0347		✓	✓		
	MODULATION_FREQUENCY_DESCRIPTION	0x0348		✓			
Power Settings	DEVICE_HOURS	0x0400		✓	✓	✓	Total Runtime for life of product
	LAMP_HOURS	0x0401		✓	✓	✓	Shows the runtime since last cleaning cycle was performed. Resets once Cleaning Cycle has been performed
	LAMP_STRIKES	0x0402		✓	✓		
	LAMP_STATE	0x0403		✓	✓		
	LAMP_ON_MODE	0x0404		✓	✓		
	DEVICE_POWER_CYCLES	0x0405		✓	✓		
	BURN_IN	0x0440		✓	✓		
Display Settings	DISPLAY_INVERT	0x0500		✓	✓	✓	Normal/Inverted 180
	DISPLAY_LEVEL	0x0501		✓	✓		
Configuration	PAN_INVERT	0x0600		✓	✓		
	TILT_INVERT	0x0601		✓	✓		
	PAN_TILT_SWAP	0x0602		✓	✓		
	REAL_TIME_CLOCK	0x0603		✓	✓		
	LOCK_PIN	0x0640		✓	✓		
	LOCK_STATE	0x0641		✓	✓		
	LOCK_STATE_DESCRIPTION	0x0642	✓	✓			

Category	RDM Parameter ID's (Slots 21-22)	Value	Required	GET Allowed	SET Allowed	Chauvet	Detail
Network Configuration	LIST_INTERFACES	0x0700		✓			
	INTERFACE_LABEL	0x0701		✓			
	INTERFACE_HARDWARE_ADDRES S_TYPE1	0x0702		✓			
	IPV4_DHCP_MODE	0x0703		✓	✓		
	IPV4_ZEROCONF_MODE	0x0704		✓	✓		
	IPV4_CURRENT_ADDRESS	0x0705		✓			
	IPV4_STATIC_ADDRESS	0x0706		✓	✓		
	INTERFACE_RENEW_DHCP	0x0707			✓		
	INTERFACE_RELEASE_DHCP	0x0708			✓		
	INTERFACE_APPLY_CONFIGURATI ON	0x0709	✓		✓		
	IPV4_DEFAULT_ROUTE	0x070A		✓	✓		
	DNS_IPV4_NAME_SERVER	0x070B		✓	✓		
	DNS_HOSTNAME	0x070C		✓	✓		
	DNS_DOMAIN_NAME	0x070D		✓	✓		
Control	IDENTIFY_DEVICE	0x1000		✓	✓	✓	
	RESET_DEVICE	0x1001			✓	✓	Yes/No
	POWER_STATE	0x1010		✓	✓		
	PERFORM_SELFTEST	0x1020		✓	✓	✓	Primes Unit
	SELF_TEST_DESCRIPTION	0x1021		✓			Primes Unit
	CAPTURE_PRESET	0x1030			✓		
	PRESET_PLAYBACK	0x1031		✓	✓		
	IDENTIFY_MODE	0x1040		✓	✓		
	PRESET_INFO	0x1041		✓			
	PRESET_STATUS	0x1042		✓	✓		
	PRESET_MERGEMODE	0x1043		✓	✓		
	POWER_ON_SELF_TEST	0x1044		✓	✓		

DMX Configuration

Use control configurations to operate the product with a DMX controller.

Starting Address

Each product will respond to a unique starting address from the controller. All products with the same starting address will respond in unison. To set the starting address:

- Go to the **DMX Address** main level.
- Select the starting address (**1–512**).
 - The highest recommended starting address is **510**.

Control Channel Assignments and Values

3-Channel

Channel	Function	Value	Percent/Setting
1	Fan speed	000 ⇔ 010	No function
		011 ⇔ 255	1–100%
2	Haze output	000 ⇔ 010	No function
		011 ⇔ 255	1–100%
3	Remote clean function	000 ⇔ 151	No function
		152 ⇔ 159	Remote clean function
		160 ⇔ 255	Standby mode

Standalone Configuration

Haze Output

To adjust the haze output through the display menu:

1. Go to the **Haze Output** level.
2. Increase or decrease the value from **1–100%**.

Fan Speed

To adjust the fan speed through the display menu:

1. Go to the **Fan Speed** level.
2. Increase or decrease the value from **1–100%**.

Timer Interval

To adjust the interval of timed haze outputs through the display menu:

1. Go to the **Timer Interval** level.
2. Increase or decrease the value from **5–600S**.

Timer Duration

To adjust the duration of timed haze outputs through the display menu:

1. Go to the **Timer Duration** level.
2. Increase or decrease the value from **5–300S**.

Settings Configuration

RDM-UID

To view the RDM-UID of the product, go to the **RDM-UID** level.

Fluid Sensor

To enable or disable the fluid sensor function:

1. Go to the **Fluid Sensor** level.
2. Select from **ON** or **OFF**.

Auto Run Last Setting

To set the control values to the last ones used:

1. Go to the **Auto Run Last Setting** level.
2. Select from **YES** or **NO**.

Auto Shutdown

To shut all functions down:

1. Go to the **Auto Shutdown** level.
2. Select from **ON** or **OFF**.

Operation

Priming the Pump

The AmHaze ECO features an automatic shut-off function. When the fluid sensor detects no fluid in the hose, the pump automatically shuts off. Sometimes an air bubble can be caught in the hose by the fluid sensor, triggering the auto shut-off. To prevent this, the pump must be primed every time the reservoir is refilled from empty and/or every time the hose runs dry.

To prime the pump and remove all air bubbles:

1. Ensure the filter tip of the hose is fully submerged in the fluid.
2. Run the AmHaze ECO on low haze volume.
3. With two fingers, pinch the hose closed so nothing can pass through.



DO NOT use fingernails or anything which may cut the hose!

4. Keep the hose pinched closed for 20–30 seconds. The pump will make a noise that will slowly get louder.
5. After at least 20–30 seconds, release the hose. Fluid should pass quickly through it, preventing any bubbles from becoming trapped.



The pump must be primed every time the reservoir is refilled, or the hose runs dry.

5. Maintenance

Fog Machine Maintenance

Proper maintenance of Chauvet atmospheric products will increase the reliability and lifespan of products. Maintenance should be completed every 30-90 days, depending on how frequently products are used.



- **When performing maintenance, use Chauvet Fog Cleaner Quart (FCQ) for U.S., or cleaning Fluid 250 (CF250) for EU products. Run the fluid through the system to reduce the accumulation of particulate matter in the heating element.**
- **DO NOT allow the atmospheric product to become clogged. Once a product is clogged, the cleaning procedure is unlikely to effectively clear the clog.**

The recommended cleaning procedure is as follows:

1. Unplug the product from power.
2. Remove the hose from the fluid tank/reservoir. Remove the FCQ/CF250 screw cap and place the hose in the Fog Cleaner bottle.
3. Connect the product to power and allow it to warm up (if not already warmed up).
4. Run the FCQ/CF250 through the product in a well-ventilated area for 60-90 seconds of continuous, full output. Some products require multiple cycles to achieve this.



DO NOT allow the product to run dry!

5. Move the hose from the FCQ/CF250 to a small bottle with distilled water (only use distilled water, not tap or any other water or liquid). Run distilled water through the product for at least 30 seconds to clear any remaining cleaning solution from the pump and heater.



- **Turn off the product when not in use or when storing.**
- **DO NOT leave the cleaning solution in the product.**
- **DO NOT operate the product without fluid at any time.**
- **DO NOT leave Chauvet atmospheric fluid in the product tank/reservoir for more than 10 days without use.**



Fog Cleaner Quart (FCQ) and Cleaning Fluid 250 (CF250) were specifically developed by Chauvet to clean Chauvet atmospheric products equipped with heaters. Use FCQ/CF250 regularly, no longer than 90 days between cleanings (30-60 days if the product is used more frequently), to prevent shortening the life of the product.

Storage

Before storing the Chauvet atmospheric product, run FCQ/CF250 through the system as described in the cleaning procedure above and do not refill the tank with atmospheric fluid before storing the product.



Test-run the Chauvet atmospheric products monthly to achieve the best performance.

Chauvet does not guarantee products will withstand storage for long durations, even if the cleaning process is followed. Please use caution and test regularly to ensure the product continues to function properly.

Technical Specifications

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
15.86 in (403 mm)	12.20 in (310 mm)	10.07 in (256 mm)	25 lb (11.4 kg)

Note: Dimensions in inches are rounded.

Power

Power Supply Type	Range	Voltage Selection
Fixed	120 VAC, 60 Hz or 230 VAC, 50 Hz	Fixed

Parameter	120 V, 60 Hz	230 V, 50 Hz
Consumption	1,230 W	2,430 W
Operating Current	10.25 A	10.56 A

Power I/O	U.S./Worldwide	UK/Europe
Power Input Connector	Seetronic Powerkon IP65	Seetronic Powerkon IP65
Power Cord plug	Edison (U.S.)	Local Plug

Operation

Tank Capacity	Fluid Consumption	Maximum Run-Time
0.92 gal (3.5 L)	0.11 gallons/hour (7 ml/min)	8 hours @ full volume

Heat-Up Time	Fan Speed
30 sec	120 cfm

Thermal

Startup Temperature Range	Operating Temperature Range	Cooling System
50 °F to 113 °F (10 °C to 45 °C)	50 °F to 113 °F (10 °C to 45 °C)	Convection

DMX

I/O Connector	Channel Range
3-pin and 5-pin XLR	3

Ordering

Product Name	Item Name	Item Code	UPC Number
AmHaze ECO (120V)	AMHAZEECO	09071502	781462218508
AmHaze ECO (230V)	220AMHAZEECO	09071503	781462218515



UL 1573
CSA C22.2 No. 166
E113093



CONTACT US

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Warranty & Returns

For warranty terms and conditions and return information, please visit our website.

For customers in the United States and Mexico: www.chauvetlighting.com/warranty-registration.

For customers in the United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, and Germany: www.chauvetlighting.eu/warranty-registration.