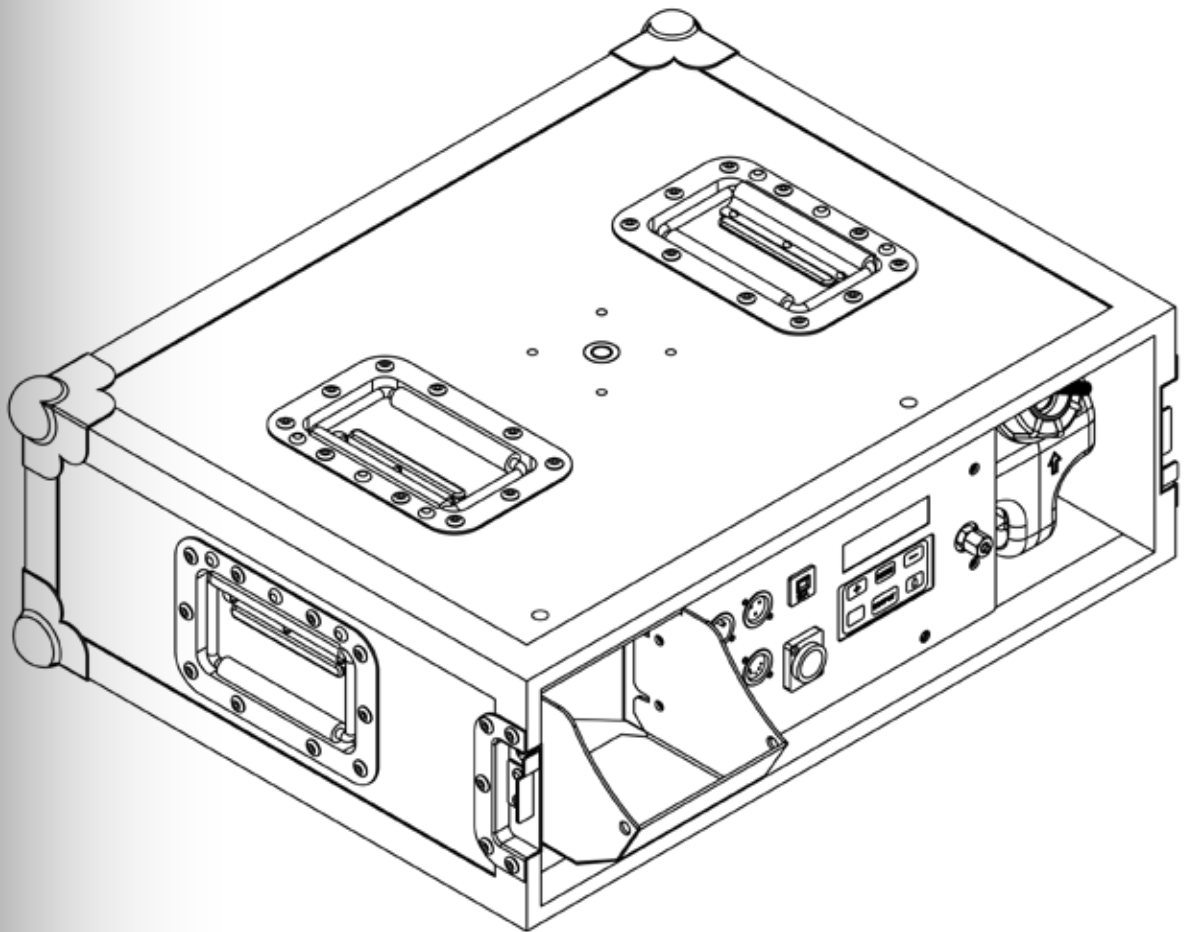# Amhaze II

User Manual

CHAUVET
PROFESSIONAL

Edition Notes

The Amhaze II User Manual Rev. 4 covers the description, safety precautions, installation, programming, operation, and maintenance of the Amhaze II. Chauvet released this edition of the Amhaze II User Manual in May 2017.

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Document Printing

For better 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 your printer to scale the content accordingly.

Intended Audience

Any person in charge of 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

The Amhaze II User Manual Rev. 4 supersedes all previous versions of this manual. Discard any older versions of this manual and replace with this version. Go to www.chauvetprofessional.com for the latest version.

Table of Contents

1. Before You Begin

What is Included
- · Amhaze II
- · Neutrik® powerCON® power cord
- · Warranty Card
- · Quick Reference Guide

Claims

Carefully unpack the product immediately and check the box 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 your 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.

Manual Conventions

Convention	Meaning
1–512	A range of values in the text
50/60	A set of mutually exclusive values in the text
<SET>	A button on the product's control panel
Settings	A product function or a menu option
MENU>Settings	A sequence of menu options
1–10	A range of menu values from which to choose in a menu
Yes/No	A set of two mutually exclusive menu options in a menu
ON	A unique value to be entered or selected in a menu

Symbols

Symbols	Meaning
⚠	Critical installation, configuration, or operation information. Failure to comply with this information may cause the product not to work, damage third-party equipment, or cause harm to the operator.
ⓘ	Important installation or configuration information. Failure to comply with this information may keep the product from working.
📝	Useful information.

📝 **The term "DMX" used throughout this manual refers to the USITT DMX512-A digital data transmission protocol.**

Product at a Glance

Use on Dimmer	✖	Auto Programs	✖
Outdoor Use	✖	Fixed Voltage (120 V or 230 V)	P
Sound-Active	✖	Circuit Breaker	P
DMX	P	User-Serviceable	✖
Master/Slave	✖		

Safety Notes

Read all the following Safety Notes before working with this product. These notes include important information about the installation, usage, and maintenance of this product.

This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained Chauvet certified technicians. Do not open the housing or attempt any repairs.

All applicable local codes and regulations apply to proper installation of this product.

Personal Safety
- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- Always disconnect this product from its power source before servicing.
- Do not touch this product's housing during operation because it may be very hot.
- Do not drink or become in contact with the haze fluid. If you do, call your local emergency service (911 in the US) for help.

Mounting and Rigging
- This product is not intended for permanent installation.
- This product is for indoor use only! (IP20) To prevent risk of fire or shock, do not expose this product to rain or moisture.
- CAUTION: When transferring 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 product to fully acclimate to the surrounding environment before connecting it to power.
- Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Make sure there are no flammable materials close to this product while it is operating.
- When mounting this product overhead, always secure to a fastening device using a safety cable.
- Do not mount the product on a flammable surface (linoleum, carpet, wood, paper, carton, plastic, etc.).

Power and Wiring
- Make sure the power cord is not crimped or damaged.
- Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- Never connect this product to a dimmer pack or rheostat.
- Never disconnect this product by pulling or tugging on the power cable.

Operation
- Do not operate this product if you see damage to the housing, fluid tank, or cables. Have the damaged parts replaced by an authorized technician at once.
- 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.
- Be sure that no ventilation slots on the product's housing are blocked.
- Never carry the product from the power cord or any moving part. Always use the handles.
- The haze exits the nozzle at a very high temperature. Keep a minimum distance of 6.5 ft (2 m) from the nozzle to the nearest object.
- The product's nozzle is very hot during operation and it remains hot for a long time after operation has stopped.
- The maximum ambient temperature is 104 °F (40 °C). Do not operate this product at a higher temperature.
- In the event of a serious operating problem, stop using this product immediately!
- Do not add perfume, alcohol, gasoline, or any other flammables to the haze fluid.
- Use CHAUVET water-based Premium Haze Fluid (PHF) and High Performance Haze Fluid (HFG).

If your Chauvet product requires service, contact Chauvet Technical Support.

2. Introduction

Description The Amhaze II is a professional water-based haze machine. Adjustable via DMX or the LCD screen, you can achieve continuous variable haze output and blower speed. Vent accessory allows directional control of haze flow. The hazer is tour-ready with a rugged road case and an M13 threaded rigging insert. It works with a variety of different water-based haze fluid types for added versatility, including Premium Haze Fluid (PHF) and High Performance Haze Fluid (HFG) available from Chauvet.

Features
· Water-based haze machine
· Operating mode:
    · 2-channel: fan speed and haze output volume
· Directional haze flow
· 3- and 5-pin XLR data input and output connectors

Overview

Moveable
Haze Guide

Vent for
Directional
Flow

Breaker Reset
Button

Display

Menu Buttons

3- and 5-pin DMX Out

3- and 5-pin DMX In

powerCON®
Input

Haze Fluid
Tank

Rear View

Dimensions

8 in
203 mm

Side View

24.7 in
627 mm

**Top
View**
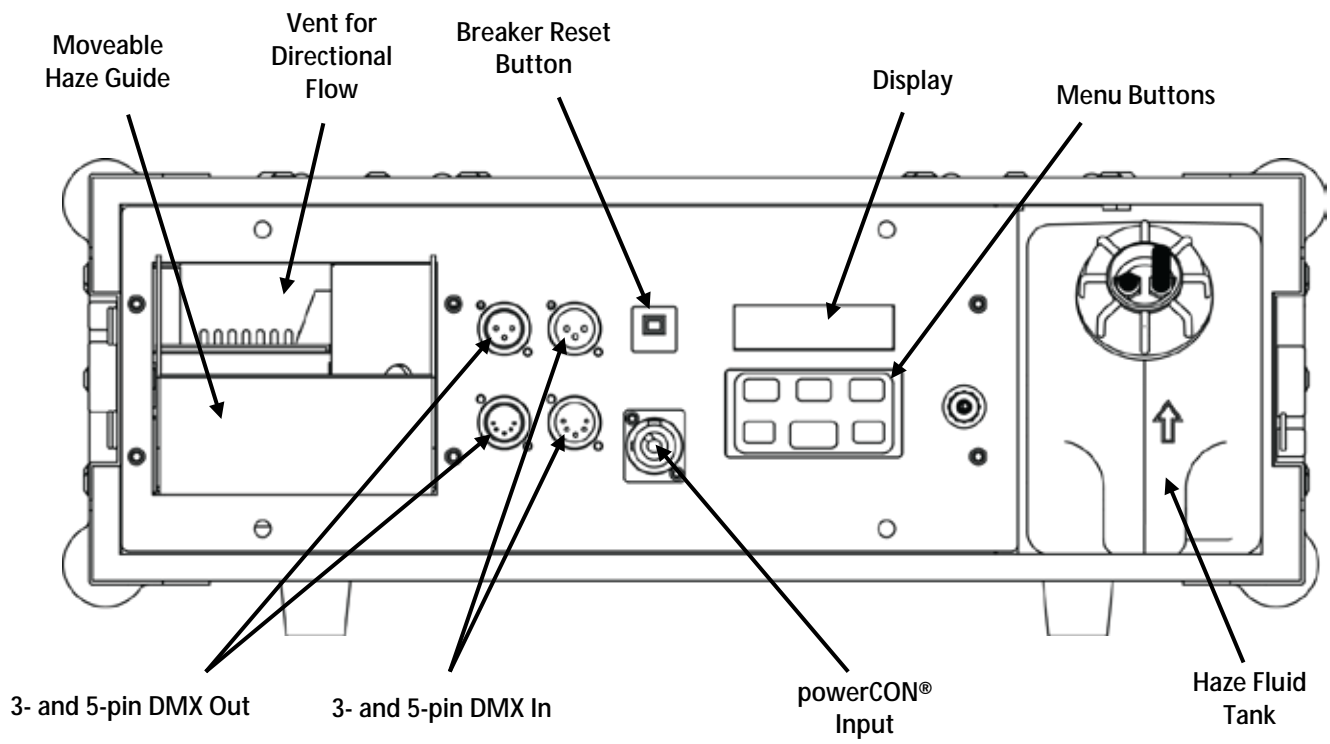
3. Setup

AC Power The Amhaze II 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 power requirements for each Amhaze II, refer to the label affixed to the product. You can also refer to the Technical Specifications chart in this manual.
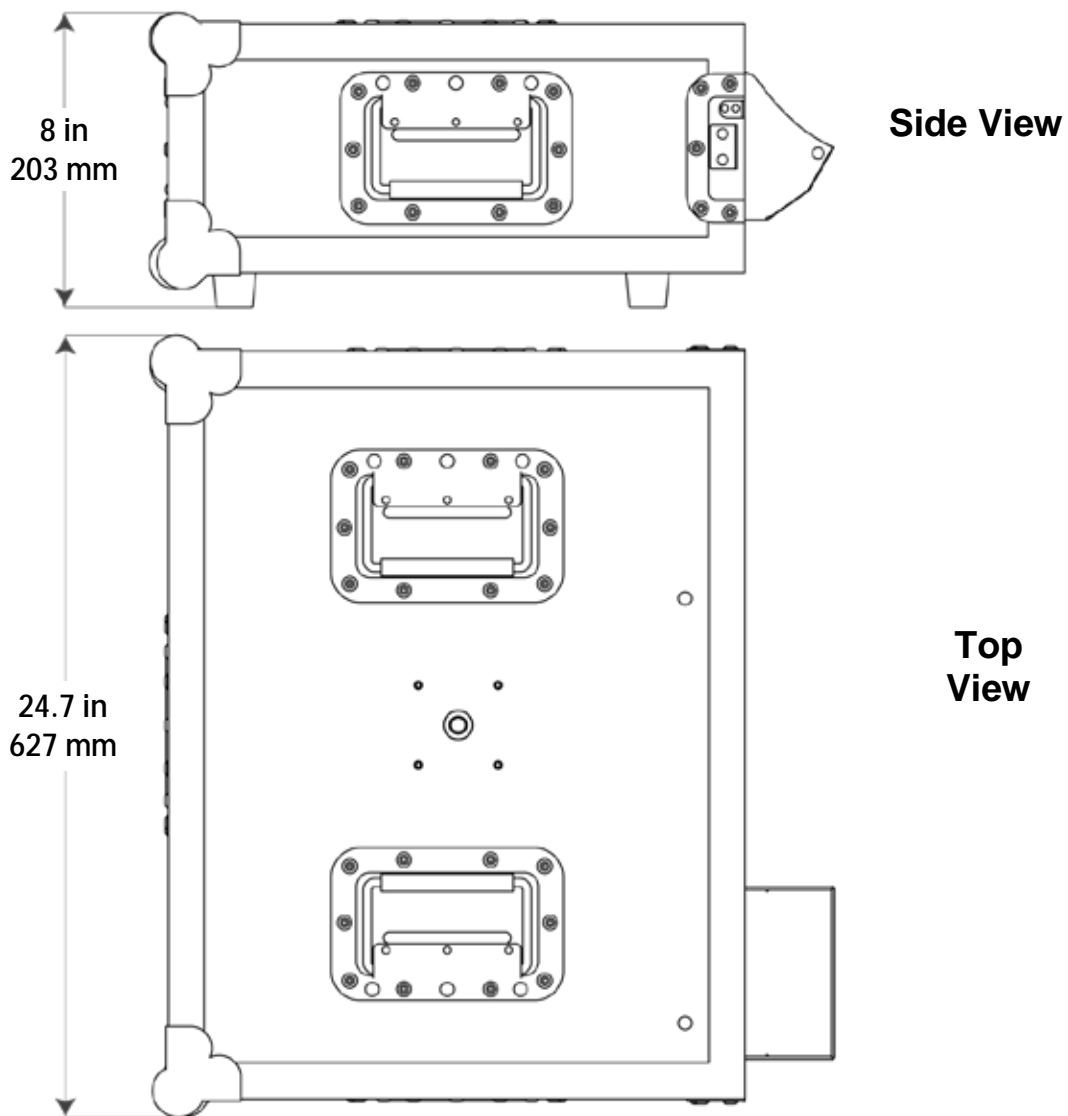
The listed current rating indicates the maximum current draw during normal operation. For more information, you may download Sizing Circuit Breakers from the Chauvet website www.chauvetprofessional.com.

⚠ **Always connect this product to a protected circuit with an appropriate electrical ground to avoid the risk of electrocution or fire.**

ⓘ **Never connect this 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 II comes with a power input cord terminated with a Neutrik® powerCON® A connector on one end and an Edison plug on the other end (U.S. market). If the power input cord that came with your product has no plug, or if you need to change the Edison plug, use the table below to wire the new plug to the power input cord.

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 The Amhaze II uses a resettable circuit breaker. Follow the instructions below to reset.

⚠ **Disconnect the product from the power before 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. Disconnect the hazer from power.
2. Allow the hazer to cool for 15 minutes.
3. After 15 minutes, try to reset the breaker by pressing the button until it latches in the operation position.
4. Connect the hazer to power and continue using as recommended.

⚠ **If the breaker does not reset (the breaker button will not remain latched), contact Chauvet immediately.**

DMX Linking You can link the Amhaze II to a DMX controller using a standard DMX serial connection. If using other DMX-compatible products with the Amhaze II, you can control each individually with a single DMX controller.

DMX Modes The Amhaze II uses the standard DMX data connection for its 2-channel DMX mode.

· Refer to the Introduction chapter for a brief description of this mode.
· Refer to the Operation chapter to learn how to configure the Amhaze II to work in this mode.
· The DMX Values section provides you with detailed information regarding the DMX mode.

📝 **If you are not familiar with or need more information about DMX standards or the DMX cables needed to link this product to a DMX controller, download the *DMX Primer* from the Chauvet website:** www.chauvetprofessional.com.

Mounting Before mounting this product, read and follow the Safety Notes. For our CHAUVET Professional line of mounting clamps, go to http://trusst.com/products/.
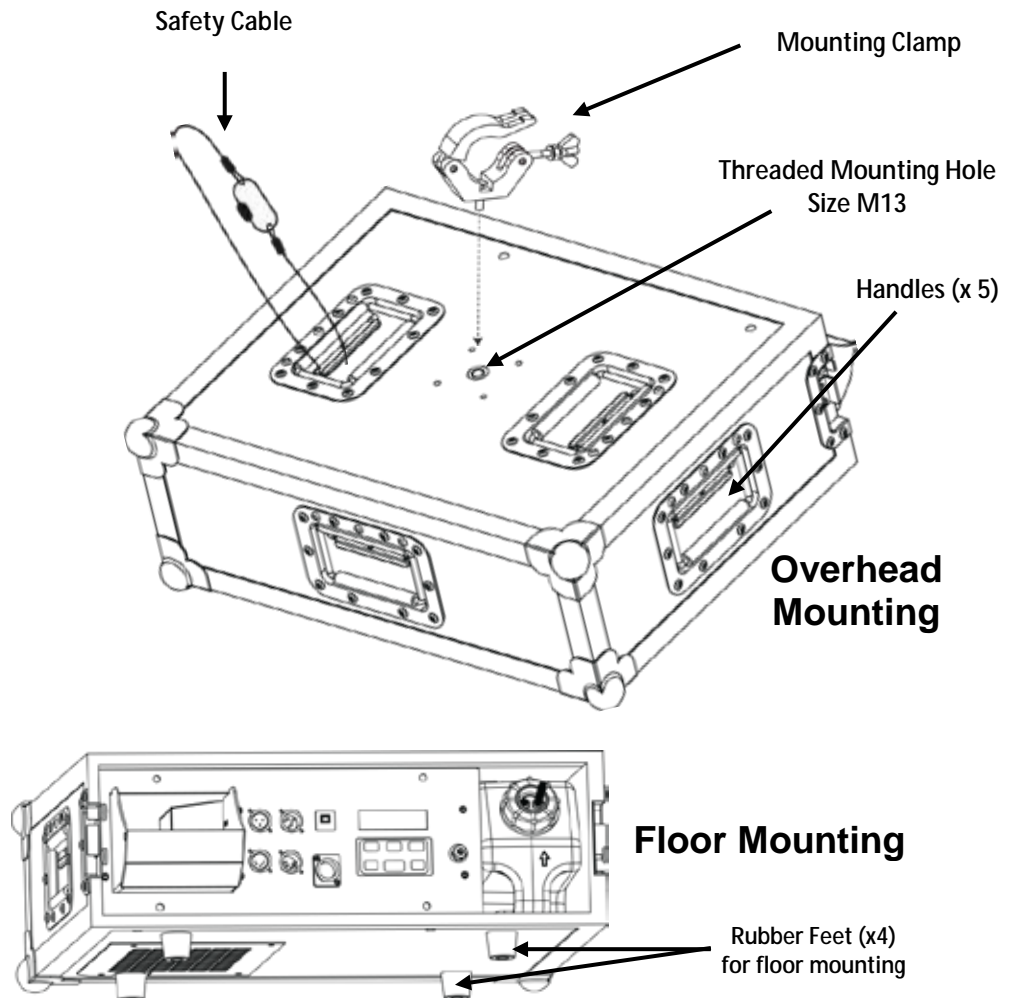
Orientation Always mount this product in a safe position. The Amhaze II may be mounted in any position; however, make sure there is adequate room for ventilation, configuration, and maintenance.

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

- When selecting an installation location, consider easy access to this product for operation, programming adjustments, and routine maintenance.
- Make sure to mount this product away from any flammable material as indicated in the Safety Notes.
- Never mount in places where rain, high humidity, extreme temperature changes, or restricted ventilation may affect the product.
- If hanging this product, make sure that the mounting location can support the product's weight. See the Technical Specifications for the weight-bearing requirements of this product.
- When hanging this product, always secure to a fastening device using a safety cable.

Procedure The Amhaze II has a threaded mounting hole, size M13, at the top of the hazer. This mounting hole is appropriate for use with a mounting clamp. You must supply your own mounting clamps. Be sure the clamp is capable of supporting the weight of this product.

Mounting Diagram

Safety Cable

Mounting Clamp

Threaded Mounting Hole
Size M13

Handles (x 5)

Overhead Mounting

Floor Mounting

Rubber Feet (x4)
for floor mounting

4. Operation

Control Panel Description

Button	Function
<FUNCTION>	Enters the programming mode
<VOLUME>	Controls the haze pump to modify the output volume
<TIMER>	Starts the timer controlled operation
<MANUAL>	Allows momentary haze output for as long as the button is held down
<UP>	Scrolls up the list of menu options or increases the numeric value when in a function
<DOWN>	Scrolls down the list of menu options or decreases the numeric value when in a function

Control Options

You can set the starting address of the Amhaze II in the **001**–**512** DMX range. This enables control of up to 256 products in its 2-channel mode.

Programming

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

Preparing for Operation

To prepare the Amhaze II for operation, perform the following steps.
1. Open the flight case.
2. Withdraw the fluid tank from its compartment and remove its cap.
3. Verify that the two plastic hoses attached to the cap are in place and in good condition.
4. Pour CHAUVET (PHF or HFG) haze fluid into the tank and replace the cap.
5. Put the tank back into its compartment in the hazer.
6. Make sure the plastic hose entering the hazer from the fluid tank cap is not bent or kinked.
7. To direct the haze up or down, pull the haze guide from the front panel of the haze machine and reinstall it in the desired position.
8. Connect the hazer to power and **Warming Up** shows on the display during the heating-up process. After approx. 2 minutes, the display changes to **Ready To Haze** when the machine is ready to output haze.

In any of the operation modes, the display must show *Ready To Haze* to output haze.

Startup

The Amhaze II does not have an On/Off switch. As soon as you connect the Amhaze II to power, it will start operating.
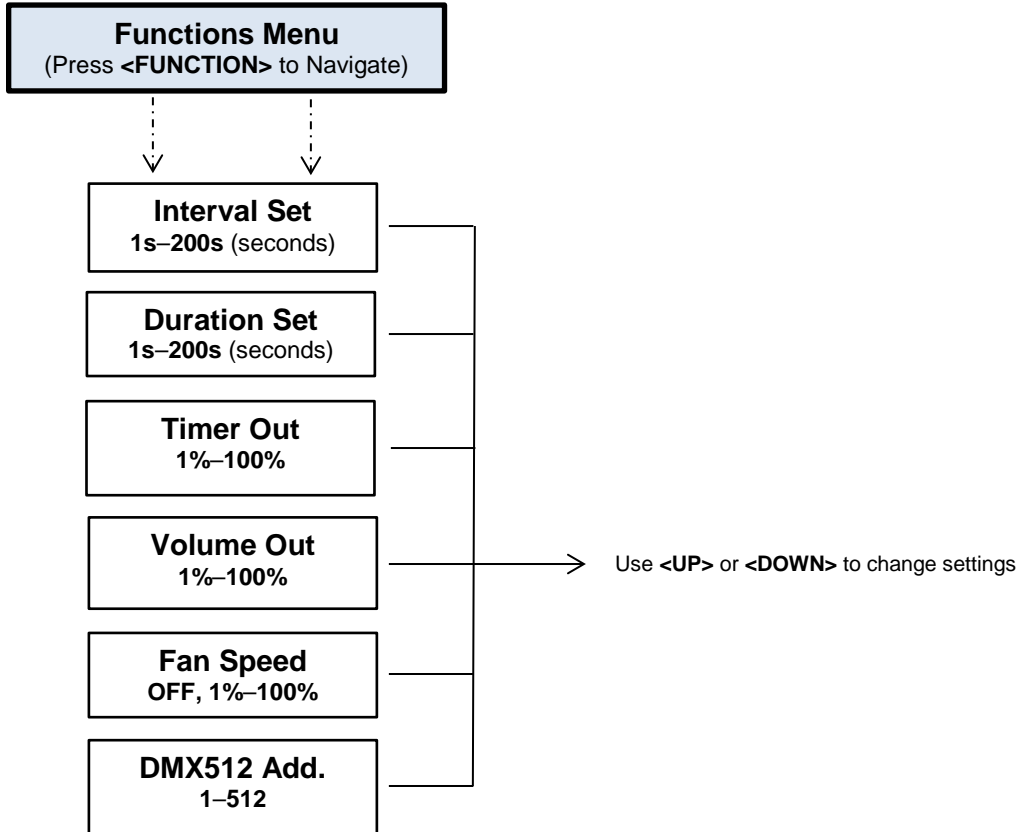
To start up the Amhaze II, do the following:
1. Prepare for operation, as described in Preparing for Operation.
2. Press **<VOLUME>**.
3. Adjust haze output volume by using **<UP>** or **<DOWN>**.

Repeat the startup procedure after transporting the Amhaze II or after refilling with haze fluid.

Menu Map

```
┌──────────────────────────────────┐
│        Functions Menu            │
│ (Press <FUNCTION> to Navigate)   │
└──────────────────────────────────┘
```

```
┌──────────────────────┐
│     Interval Set     │
│  1s–200s (seconds)   │
└──────────────────────┘

┌──────────────────────┐
│     Duration Set     │
│  1s–200s (seconds)   │
└──────────────────────┘

┌──────────────────────┐
│      Timer Out       │
│      1%–100%         │
└──────────────────────┘

┌──────────────────────┐
│      Volume Out      │
│      1%–100%         │
└──────────────────────┘          Use <UP> or <DOWN> to change settings

┌──────────────────────┐
│      Fan Speed       │
│   OFF, 1%–100%       │
└──────────────────────┘

┌──────────────────────┐
│     DMX512 Add.      │
│      1–512           │
└──────────────────────┘
```

DMX Values

2 Channels	Channel	Function	Value	Percent/Setting
	1	**Fan Volume**	000 ⬌ 005 006 ⬌ 255	No output 20–100%
	2	**Output Volume**	000 ⬌ 005 006 ⬌ 255	No output 2–100%

Configuration (DMX)
Set the product in DMX mode to control with a DMX controller.
1. Connect the product to power.
2. Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket on the product.

Starting Address
When selecting a starting DMX address, always consider the number of DMX channels the DMX mode uses. If you choose a starting address that is too high, you could restrict the access to some of the product's channels.

The Amhaze II uses up to 2 DMX channels in its DMX mode, which defines the highest configurable address to **511**.

If unfamiliar with DMX, download the DMX Primer from www.chauvetprofessional.com.

To select the starting address, do the following:
1. Press **<FUNCTION>** repeatedly until **DMX512 Add.** shows on the display.
2. Use **<UP>** or **<DOWN>** to select the starting address **1**–**512**.

Make sure that the starting addresses on the various products do not overlap due to the new personality setting.

Setting the Output Volume
To adjust the volume of the haze output, do the following.
1. Press **<FUNCTION>** repeatedly until **Volume Out** shows on the display.
2. Use **<UP>** or **<DOWN>** to select the desired percent output volume (**1%–100%**).
3. Press **<VOLUME>** to initiate this output.
4. Press <**VOLUME**> again to trigger the haze output with this output volume setting.

After turning off the Amhaze II, this output volume setting will remain in its memory. To change the output volume for subsequent operation of the Amhaze II, simply repeat the steps above.

Setting the Fan Speed
To adjust the fan speed for the haze output, do the following.
1. Press **<FUNCTION>** repeatedly until **Fan Speed** shows on the display.
2. Use **<UP>** or **<DOWN>** to select the desired percent total speed (**1%–100%**) or **OFF**.

Timer Mode When in Timer mode, the Amhaze II will produce haze in pre-configured time intervals defined by the **Interval Set** and **Duration Set** menu options. In addition, the output volume during Timer mode is set by the **Timer Out** menu option. See the <u>Timer Mode Parameters</u> section for details about how to configure these parameters.

To operate in Timer mode, do the following:

1. Press **<TIMER>** and the display will show a countdown of the interval timer.
2. When the counter reaches zero (**0**), the Amhaze II will start producing haze.
3. The haze output duration during Timer mode is set by the **Duration Set** menu option.
4. The haze output volume during Timer mode is set by the **Timer Out** menu option.
5. This cycle will repeat itself until you press **<TIMER>** again or until the Amhaze II runs out of fluid.

Manual Mode In the Manual mode, the Amhaze II will output haze for as long as **<MANUAL>** remains pressed. The output volume will be at 100% full haze output.

To operate in Manual mode, do the following:

1. Press **<MANUAL>**.
2. This mode will continue until you release **<MANUAL>** or until the Amhaze II runs out of fluid.

Timer Mode Parameters These parameters determine the intervals and output volume for the Amhaze II while in Timer mode.

To configure these parameters do the following.

1. Press **<FUNCTION>** repeatedly until **Interval Set** shows on the display.
2. Use **<UP>** or **<DOWN>** to select the time in seconds (**1s**–**200s**) between haze output.
3. Press **<FUNCTION>** repeatedly until **Duration Set** shows on the display.
4. Use **<UP>** or **<DOWN>** to select the time in seconds (**1s**–**200s**) for the duration of the haze output.
5. Press **<FUNCTION>** repeatedly until **Timer Out** shows on the display.
6. Use **<UP>** or **<DOWN>** to set the haze output volume (**1%**–**100%**).

5. Technical Information

Hazer Maintenance   Do not allow the haze machine to become clogged. After every 40 hours of continuous operation, use CHAUVET Fog Cleaner Quart (FCQ) through the system to prevent the accumulation of particulate matter in the heating element.

The recommended cleaning procedure is as follows.

1. Unplug the product from power.
2. Empty all haze fluid from the machine.
3. Add cleaning solution to the tank.
4. Connect the product to power and allow it to warm up.
5. Run the unit in a well-ventilated area until the tank is empty.
6. Refill with haze fluid to continue using the hazer. Run the machine briefly to clear any cleaning solution from the pump and heater.

FCQ (Fog Cleaner Quart) was specifically developed by Chauvet to clean your Amhaze II. Make sure you use FCQ regularly to increase the life of your hazer.

Do not spin the fans using compressed air because you could damage the hazer.

Storage   Before storing the hazer, run FCQ through the system as described in the cleaning procedure above; however, only follow steps 1 through 5. Do not refill the tank with hazer fluid if storing the hazer. Cleaning the system prior to storage will help prevent any particles from condensing inside the pump or heater while not in use.

Test-run your Amhaze II on a monthly basis to achieve the best performance.

Technical Specifications

Dimensions and Weight	Length	Width	Height	Weight
	21.5 in (546 mm)	24.7 in (627 mm)	8 in (203 mm)	41.2 lb (18.7 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

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

	Parameter	120 V, 60 Hz	230 V, 50 Hz
	Consumption	760 W	250 W
	Operating current	6.3 A	5 A
	Breaker	8 A	8 A

	Power	U.S./Canada	Worldwide
	Power input connector	Neutrik® powerCON® A	Neutrik® powerCON® A
	Power cord plug	Edison (U.S.)	Local plug

Operation/Capacity/ Consumption	Heat-up Time	Tank Capacity	Fluid Consumption
	2 min	0.92 gal (3.5 l)	18 ml/min

Misc.	Output
	11,000 cfm

Thermal	Max. External Temperature	Cooling System
	104 °F (40 °C)	Fan-Assisted Convection

DMX	I/O Connectors	Connector Type	Channel Range
	3- and 5-pin XLR	Sockets	2

Ordering	Product Name	Item Code	UPC Number
	Amhaze II (120 V)	05070742	781462210908
	Amhaze II (230 V)	05070743	781462210915

CE RoHS

Returns   Send the product prepaid, in the original box, and with the original packing and accessories. Chauvet will not issue call tags.

Before shipping the product, call Chauvet and request a Return Merchandise Authorization (RMA) number. Be prepared to provide the model number, serial number, and a brief description of the cause(s) for the return.

Clearly label the package with an RMA number. Chauvet will refuse any product returned without an RMA number.

> **DO NOT write the RMA number directly on the box. Instead, write it on a properly affixed label.**

Once you have received the RMA number, include the following information on a piece of paper inside the box:

· Your name
· Your address
· Your phone number
· RMA number
· A brief description of the problem(s)

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be the customer's responsibility. FedEx packing or double-boxing is recommended.

> **Chauvet reserves the right to use its own discretion to repair or replace returned product(s).**

Contact Us

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W**orld Wide Web www.chauvet.com.mx**

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