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Antari M-12 Universal Voltage Fog Machine User Manual

Contents

Antari M-12 Universal Voltage Fog Machine User Manual

M-12

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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 Antari 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 23.
- 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**

- Machine's nozzle is extremely hot, please keep at least 1m distance from the nozzle when the machine is running.
- Please operate the machine on a flat, level hard and well-ventilated surface area, reserve at least 1m 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 Antari or its local dealers, otherwise the warranty will be void.
- Before operating the machine, please sure the fluid is filled in the fluid tank to avoid the pump in idling state which could lead to overeat 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 Antari dealer for assistant.
- Do not contact any moving part.

- Only use accessories recommended or sold by Antari.
- 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 Antari, 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;

Top Cover Printing

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 M-12 Universal Voltage Fog Machine
1 x 10 Liters Fluid Tank
1 x Neutrik powerCON Power Cable
1 x User Manual or Scan QR Code on the Machine

3.2 Optional Accessories

Item Code	Description
ES-W2-RECEIVER	EasySwitch Wireless Remote (Wireless Receiver/W-2 Wireless Transmitter)
ES-W-DMX	EasySwitch Wireless DMX Receiver
M-12-HB	Hanging Bracket

4. Machine Details
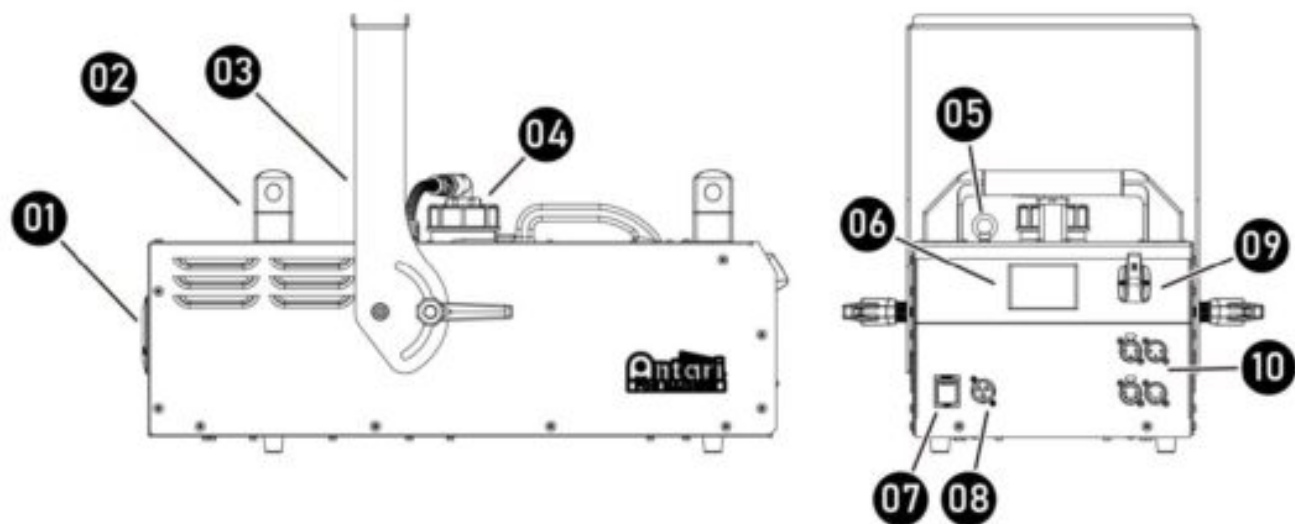
01. Fog Nozzle	06. LCD Touch Panel Display
02. Handle	07. Two in One Power & Breaker Switch
03. Hanging Bracket (Optional)	08. Neutrik powerCON Connector (POWER)
04. 10 Liter Fluid Tank	09. Wireless / W-DMX (Optional)
05. Safety Ring	10. XLR 3-Pin / 5-Pin Connector (DMX)

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 Antari dealer for assistant.

- Only the fog fluid manufactured by Antari 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.
- Only the essence manufactured by Antari can be used, and add according to the ratio recommended by Antari (Recommended ratio is 1:1000), if using other essence or different ratio might clog the heater and cause malfunction.
- The warranty on your fog machine will be void if you use fog fluid not manufacture by Antari.

7. Setting and Manual Operation

 WARNING

Step 1. Place the machine on a flat, level hard and well-ventilated surface area and reserve at least 1m open space around the machine, and make sure there is no flammable gas or material nearby;
Step 2. Fill the fluid tank with Antari 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, warm up process takes approximately 13 minutes. On the upper left hand corner, when it reaches 100%, the machine is ready for operation;
Step 5. Please read "8. Control Setting" to operate the machine;
Step 6. 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.
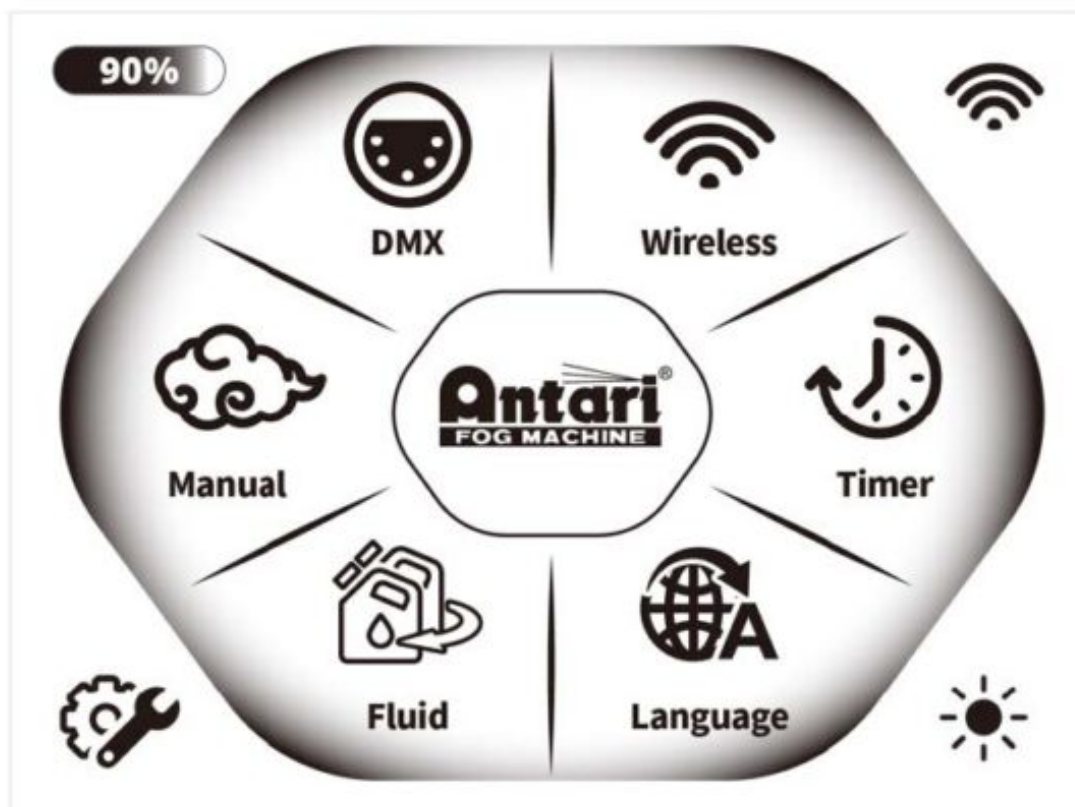
Note: The machine will automatically detect Wireless/W-DMX receiver and show the icon accordingly on the menu

8. Control Settings

M-12 Universal Voltage Fog Machine can be operated in the following modes. The machine can only accept 1 type of signal at a time.

- Manual
- Timer
- DMX512
- Wireless
- W-DMX

8.1 Control Panel Description

8.2 Menu Options Description

Main Menu		Item	Description
W-DMX	〰	W-DMX	On / Off
		Unpair	On / Off
Wireless	📶	Wireless Remote	On / Off
		Pair	On / Off
		Unpair	On / Off
Timer	🕐	Interval	1 – 360 sec
		Duration	1 – 120 sec
		Output Level	1 – 100%
Language	🌐A	English	Press to Select
		繁體中文	Press to Select
		日本語	Press to Select
		Español	Press to Select
		Français	Press to Select
		Deutsch	Press to Select
		Русский	Press to Select
		اَلْعَرَبِيَّة	Press to Select

		FLG	Press to Select
Fluid		FLH	Press to Select
		FLJ	Press to Select
		FLR	Press to Select
		FLY	Press to Select
		FLZ	Press to Select
Manual		Output Level	1 – 100%
		Priming	Force Output
DMX		Address	1CH: 001 – 512
			3CH: 001 - 510
		Channel	1CH / 3CH
Setting		Continuous Output	On / Off
		Output Mode	Single / Dual
		Fluid Sensor	On / Off
		Save Last Setting	On / Off
		Factory Reset	Proceed
BackLight		BackLight Adjustment	Low / Mid / High / Off

9. DMX Connection

9.1 DMX Connector Pin Assignment
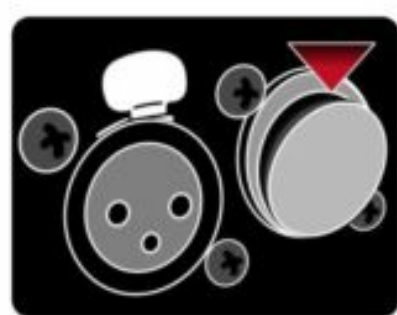This machine has a XLR 3-Pin and 5-Pin connector for DMX connection. The diagram below indicates pin assignment information;

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

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

9.2 DMX Channel Function

Mode	Function	Channel	Value	Description	
1 Channel	Fog Output	1	0-5	Off	
			6-255	1~100%	
3 Channel	Fog Output	1	0-5	Off	
			6-255	1~100%	
	Power Status	2	0-126	3 second delay, then on	
			127-255	3 second delay, then activate shut down	
	Output Mode	3	0-85	Dual Pump	
			86-170	Single Pump 【Switch Left/Right to Choose】	
			171-255	Continuous Mode 【Can't Adjust Output Volume】	

10. RDM Function

M-12 Universal Voltage Fog Machines is RDM enabled, allowing control system to configure, monitor and manage. See below table for supported RDM categories and parameters.

10.1 RDM UID

ESTA Manufacturer ID (16-bit)		Device ID (32-bit)			
Fixed		Fixed		RDM UID Range: 0x0000 ~ 0xFFDC	
0x1E	0xD8	0x00	0x10	0x00	0x01

※RDM UID can be set in Factory Mode

10.2 RDM Categories/Parameter ID Defin

GET Allowed	SET Allowed	Category	RDM Parameter ID's	Value	Required
		Network Management	DISC_UNIQUE_BRANCH	0x0001	O
			DISC_MUTE	0x0002	O
			DISC_UN_MUTE	0x0003	O
O		RDM Information	QUEUED_MESSAGE	0x0020	
O			STATUS_MESSAGES	0x0030	
O			SUPPORTED_PARAMETERS	0x0050	O
O			PAPAMETER_DESCRIPTION	0x0051	O
O		Product Information	DEVICE_INFO	0x0060	O
O			PRODUCT_DETAIL_ID_LIST	0x0070	
O			DEVICE_MODEL_DESCRIPTION	0x0080	
O			MANUFACTURER_LABEL	0x0081	
O	O		DEVICE_LABEL	0x0082	
O			LANGUAGE_CAPABILITIES	0x00A0	
O	O		LANGUAGE	0x00B0	
O			SOFTWARE_VERSION_LABEL	0x00C0	O

|					
O	O		DMX PERSONALITY	0x00E0	
O			DMX PERSONALITY DESCRIPTION	0x00E1	
O	O	DMX512 Setup	DMX START ADDRESS	0x00F0	O
O			SLOT_INFO	0x0120	
O			SLOT DESCRIPTION	0x0121	
O			DEFAULT SLOT VALUE	0x0122	
O		Sensors	SENSOR DEFINITION	0x0200	
O	O		SENSOR VALUE	0x0201	
O		Control	DEVICE HOURS	0x0400	
O	O		IDENTIFY DEVICE	0x1000	O
O	O		POWER STATE	0x1010	

11. EasySwitch Wireless Remote (Optional)

EasySwitch Wireless Remote is an optional accessory for M-12 Universal Voltage Fog Machines, it included a W-2 wireless transmitter and an EasySwitch Wireless Receiver. If you already purchased the wireless model, it's ready to use. If you purchase the EasySwitch Wireless Remote afterwards, please follow the instruction below. If you encounter any problem, please contact your local Antari dealer for assistant.

11.1 W-2 Wireless Transmitter & EasySwitch Wireless Receiver

- Battery 27A 12V
- Effective Range The effective range is approximately 50 meter, depends on actual condition, it may vary.
- If effective range is significantly shorter, please change battery.
- W-2 wireless transmitter has 4 buttons, each function as follow:

Button	Function
[A]	Start Fogging
[B]	Stop Fogging
[C]	Increase Fog Output
[D]	Decrease Fog Output
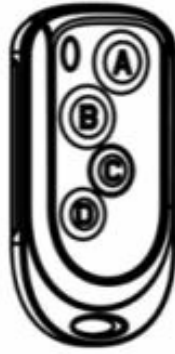
W-2 Wireless Transmitter
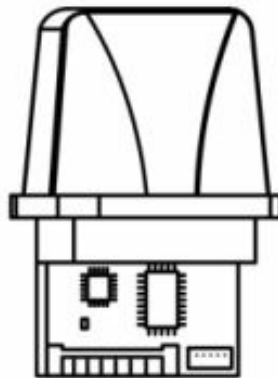
EasySwitch Wireless Receiver

11.2 EasySwitch Wireless Receiver Installation

If you purchased the EasySwitch Wireless Remote afterwards, please follow the instructions below to install the receiver. If you encounter any problem, please contact your local Antari dealer for assistant.

Graph 1

Graph 2

Graph 3

1. Please see graph 1, remove the cover from the pointed place;

2. You will see a white cable like graph 2, pull it out and connect to the EasySwitch wireless receiver;

3. Screw it back to the machine show in graph 3 and follow the instruction on 11.3 for pairing.

11.3 Pair & Unpair

Each receiver can pair up to 5 transmitters, please follow the steps below to pair or unpair the transmitters;
Step 1. Press wireless icon to enter the menu;
Step 2. Press Wireless Remote to activate the function;

Step 3A. Press Pair to pair the W-2 Wireless transmitter;
Step 3B. Press Unpair to unpair the W-2 Wireless transmitter;

12. EasySwitch W-DMX Receiver (Optional)

EasySwitch W-DMX Receiver is an optional accessory for M-12 Universal Voltage Fog Machines, it included a EasySwitch W-DMX receiver. If you already purchased the W-DMX model, it's ready to use.
please follow the instruction below. If you encounter any problem, please contact your local Antari dealer for assistant.

12.1 EasySwitch W-DMX Receiver
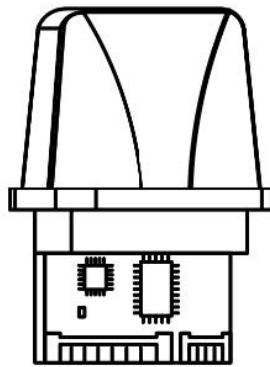
12.2 EasySwitch W-DMX Receiver Installation
If you purchased the EasySwitch Wireless Remote afterwards, please follow the instructions below to install the receiver. If you encounter any problem, please contact your local Antari dealer for assistant.

Graph 1   Graph 2   Graph 3

1. Please see graph 1, remove the cover from the pointed place;

2. You will see a white cable like graph 2, pull it out and connect to the EasySwitch wireless receiver;

3. Screw it back to the machine like graph 3 and follow the instruction on 12.3 for pairing.

12.3 Pair & Unpair
Please follow the steps below to link or unlink W-DMX signal;
Step 1. Press W-DMX icon to enter the menu;
Step 2. Press W-DMX to activate the function;
Step 3A. It will automatically search for signal;
Step 3B. Press Unpair to unpair W-DMX signal;

12.4 Status of W-DMX

Signal on LCD display		Wireless DMX status
〰〰	(Green)	W-DMX present
〰〰	(Orange)	No DMX signal present
〰〰	(Red)	Link to TX lost
〰〰	(Grey)	Not assigned

13. Service and Maintenance

⚠️ **DANGER**

- Always keep the machine clean and dry.
- 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.

13.1 Breaker Reset (2 in 1 Power Switch)
The 2 in 1 power switch combines power and breaker function.
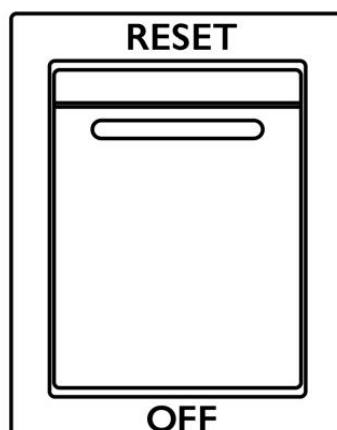Please follow below steps to reset the breaker;

Step 1: Please power switch to the OFF position;
Step 2: Wait 60 seconds;
Step 3: Flip the switch back on.
**If the breaker (switch) still jumps off after reset, please contact your local Antari dealer for assistance.

Breaker Specification

20A

14. Technical Specifications

M-12	
Input Voltage	US Model: AC 100-120V, 50/60Hz 17.0A EU Model: AC 220-240V, 50/60Hz 8.5A
Rated Power	2000W
Warming-up Time	13 minutes (approx.)
Fluid Consumption	400 ml/min (100% output)
Fluid Tank Capacity	10 Liters (2.64 Gallon)
Compatible Fluid	FLG、FLH、FLJ、FLR、FLY、FLZ
Ambient Temp. Range	0°C – 40°C (32°F – 104°F)
Control Methods	Manual、Timer、DMX512、Wireless (Optional)、W-DMX (Optional)
Interface	XLR 3-Pin and 5-Pin Connector (DMX)、Neutrik powerCON Connector (Power)
DMX Channels	1 or 3 Channel
Included Accessories	N/A
Optional Accessories	EasySwtich Wireless Remote、EasySwitch W-DMX、Hanging Bracket
Dimension	L 646 W 280 H 283 mm (L 25.43 W 11.02 H 11.14 inch)
Weight	27.2 kg (59.97 lbs.)

15. 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.
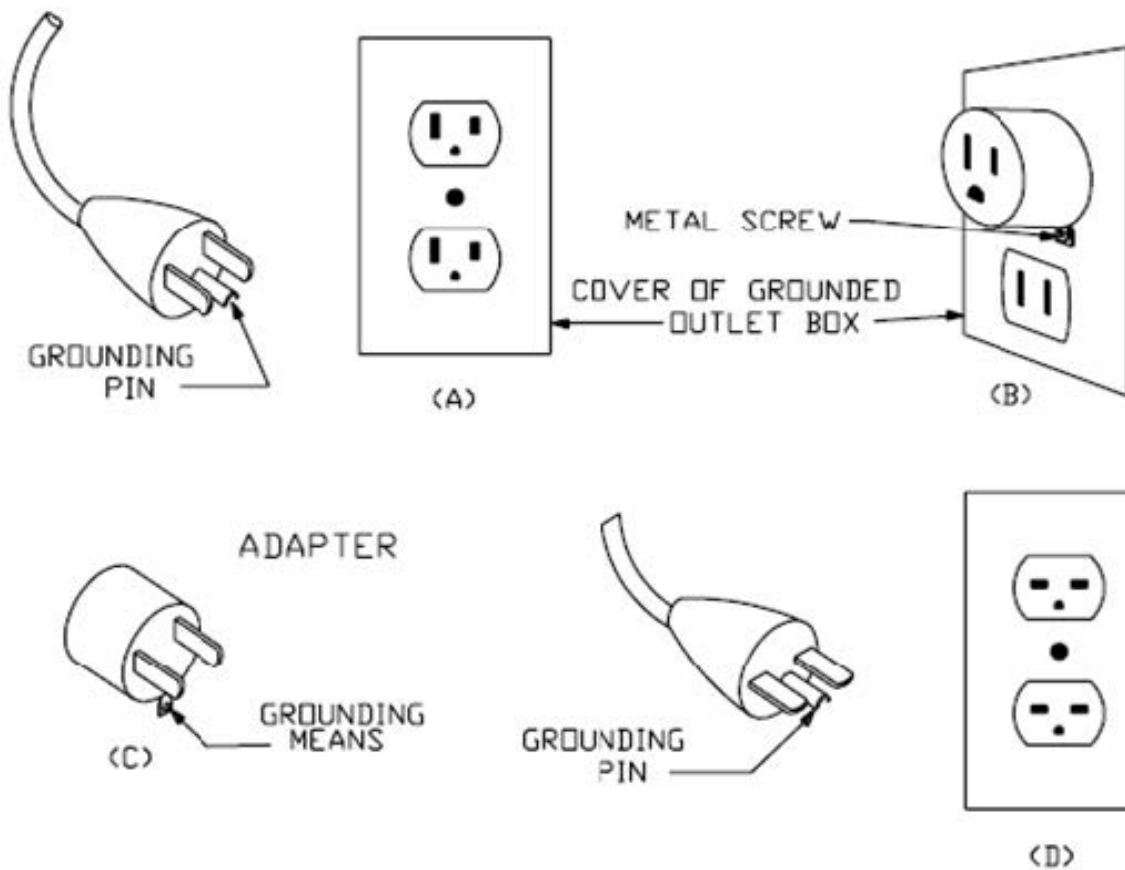
16. Machine Dimension
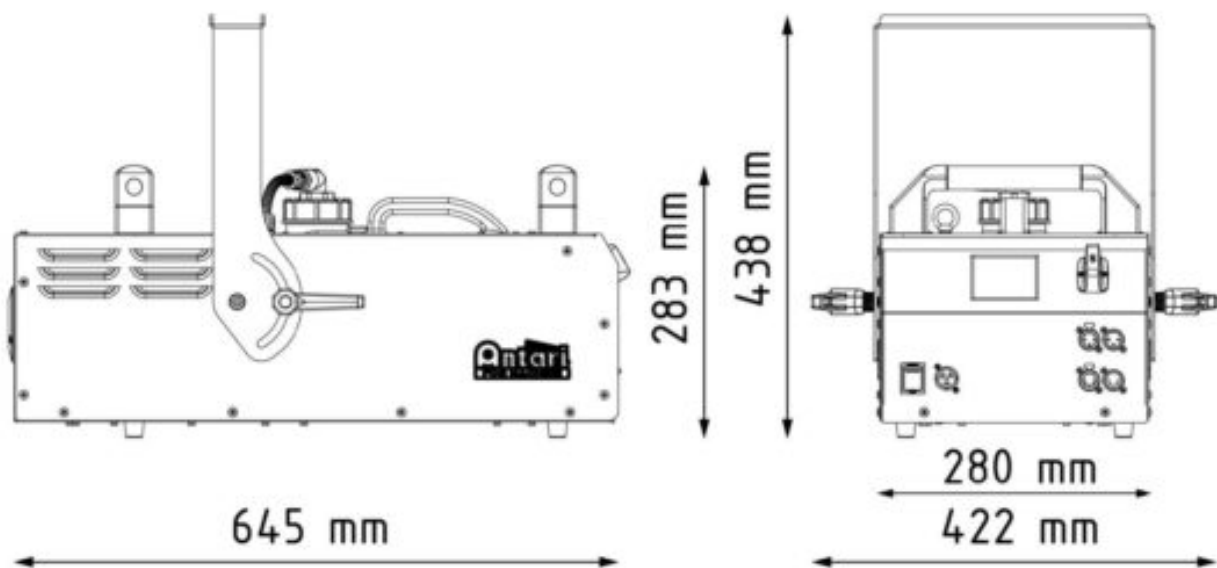
Appendix I – Grounding Instruction

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 equipmentgrounding 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 120V 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.

GROUNDING PIN

(A)

METAL SCREW

COVER OF GROUNDED OUTLET BOX

(B)

ADAPTER

GROUNDING MEANS

(C)

GROUNDING PIN

(D)

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References

- [User Manual](#)