

# MAGMATIC

## MAGMA PRIME



### User Manual

**US SKU#:**  
**EU SKU#:**

MSP001  
1412000001



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## DOCUMENT VERSION

Date	Document Version	Software Version ≥	DMX Channel Mode	Notes
03/06/2020	1	1.0	1 / 3 / 5	Initial Release
12/01/2020	2	N/C	No Change	Updated Dimensional Drawings
12/07/2020	3	N/C	No Change	Updated Voltage Specs
08/25/2021	4	N/C	No Change	Updated Safety Guidelines, Overview, & System Menu; added FCC Statement
11/02/2022	5	N/C	No Change	Added RDM

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# GENERAL INFORMATION

## INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information.

This product is intended to be used by professionally trained personnel only and is not suitable for private use.

## UNPACKING

Every device has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your dealer without first contacting customer support. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

## BOX CONTENTS

Locking Power Cable

## CUSTOMER SUPPORT

Contact **MAGMATIC customer service** for any product related service and support needs. Also visit [forums.elationlighting.com](http://forums.elationlighting.com) with questions, comments or suggestions.

**ELATION SERVICE USA - Monday - Friday 8:00am to 4:30pm PST**  
**323-582-3322 | Fax 323-832-9142 | [sales@magmaticeffects.com](mailto:sales@magmaticeffects.com)**

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**REPLACEMENT PARTS** please visit [parts.elationlighting.com](http://parts.elationlighting.com)



## IMPORTANT NOTICE!

**THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF; DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.**

## LIMITED WARRANTY (USA ONLY)

**A.** Magmatic Effects hereby warrants, to the original purchaser, Magmatic products to be free of manufacturing defects in material and workmanship for a period of two years (730 days) from the original date of purchase. This warranty excludes all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

**B.** For warranty service, send the product only to the Magmatic Effects factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Magmatic Effects will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Magmatic Effects shall have no liability what so ever for loss and/or or damage to any such accessories, nor for the safe return thereof.

**C.** This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Magmatic Effects concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Magmatic Effects factory unless prior written authorization was issued to purchaser by Magmatic Effects; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual.

**D.** This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Magmatic Effects will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Magmatic Effects under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Magmatic Effects. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.

**E.** Magmatic Effects reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

**F.** No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Magmatic Effects in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Magmatic Effects be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product.

**G.** This warranty is the only written warranty applicable to Magmatic Effects products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

## **WARRANTY RETURNS (USA ONLY)**

To obtain warranty service, a Return Materials Authorization (RMA) number must first be obtained from MAGMATIC. It is the Customer's responsibility to provide product proof of purchase and serial number by acceptable evidence such as an invoice copy or an approved MAGMATIC Extended Warranty Certificate ("EWC") and any relevant maintenance records at the time warranty service is sought. Failure to provide acceptable evidence of product proof of purchase or EWC and any relevant maintenance records may be cause for denial of warranty service.

Products returned for warranty service must be sent without any accessories (i.e., power, data, and safety cables, brackets, clamps, rigging hardware, frost filters, gel frames, barn doors, lens, hoses, nozzles, rack mounting hardware, etc.), must be boxed using the original and/or suitable packaging materials (double-box and foam) that provides ample product protection for ground and/or air freight transit, and must be shipped freight pre-paid and insured to MAGMATIC in Los Angeles, CA or an MAGMATIC Authorized Service Center. The RMA number must be clearly written on the outside of the return box, and a brief description of the problem and the RMA number must be documented and included in the box.

Products returned for warranty service without an RMA number clearly marked on the outside of the package will be refused and returned to the shipper at the Customer's expense. Products returned for warranty service, which are received damaged due to inadequate and/or improper packaging and/or due to damage caused by shipping carrier, may incur additional repair charges before warranty service begins and/or may void this warranty. If any product accessories (included and/or optional) are shipped with the product, MAGMATIC and/or the MAGMATIC Authorized Service Center shall have no liability what so ever for the loss and/or damage to any such accessories, nor the safe return thereof. If the requested warranty repairs or service (including parts replacement) are within the terms of this warranty, MAGMATIC will pay return ground transportation shipping charges to a single designated point within the United States.

# SAFETY GUIDELINES

To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. MAGMATIC is not responsible for injury and/or damages resulting from the misuse of these devices due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of these devices and only the original rigging parts included with these devices should be used for installation. Any modifications to these devices and/or the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage and/or personal injury.



## **PROTECTION CLASS 1 - DEVICES MUST BE PROPERLY GROUNDED**



**THERE ARE NO USER SERVICEABLE PARTS INSIDE THESE DEVICES. DO NOT ATTEMPT ANY REPAIRS YOURSELF, AS DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THESE DEVICES AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS.**



**DO NOT PLUG THIS UNIT INTO A DIMMER PACK!  
DO NOT REMOVE THE COVER UNDER FOR ANY REASON!  
KEEP UNIT UPRIGHT!**

**NEVER OPERATE THIS UNIT WITH THE COVER REMOVED!  
UNPLUG POWER DURING LONG PERIODS OF NON-USE  
ENSURE TANK AND COOLER ARE EMPTY BEFORE STORAGE OR TRANSPORT!  
DO NOT MOVE UNIT WHEN FILLED WITH WATER AND ICE!  
DISCONNECT POWER BEFORE ADDING WATER OR PERFORMING MAINTENANCE!**



**INDOOR / DRY LOCATIONS USE ONLY!  
DO NOT EXPOSE DEVICES TO RAIN AND/OR MOISTURE!  
PLACE UNIT IN A WELL VENTILATED AREA.  
ALLOW 40" (100CM) ABOVE AND AROUND THE UNIT FOR PROPER VENTILATION**

# SAFETY GUIDELINES

**IMPORTANT SAFETY INSTRUCTIONS. READ THESE INSTRUCTIONS THOROUGHLY BEFORE USE, AND SAVE THEM FOR FUTURE REFERENCE.**

## **CAUTION:**

- Risk of burn, fire, or electric shock.
- For indoor use only.
- Please read the instruction manual carefully before use.
- Do not immerse in liquid.
- Not for space heating use.

## **WARNING:** To prevent risk of personal injury, fire, and electric shock:

- Never leave unit unattended while plugged in. Unplug device when not in use.
- Read all important safety instructions and cautions before attempting to use.
- Connect only to a properly grounded power outlet.
- Place product on a flat, level, HARD surface and connect the cord to prevent the product from tipping or overturning.
- For use in covered areas only! Keep unit dry, and do not expose to rain, moisture, or liquid immersion.
- Leave enough space for adequate ventilation. Keep the device cool and away from other objects.
- Do not operate the device without fog liquid in the reservoir.
- Use caution when filling the fluid reservoir in order to avoid spillage, as spilled liquid can result in electrical shock.
- Do not use if liquid spills into or onto the unit, and allow the device to dry completely before attempting usage.
- Do not overfill the fluid reservoir.
- Keep away from flames and flammable or explosive substances.
- Never pour flammable liquids, such as gas, perfume, etc, into the fog machine.
- Keep the device and fog fluid out of reach of children.
- Use only under adult supervision.
- Do not direct fog output in the direction of people or open flame.
- Stay at least 20 inches (50cm) from the output nozzle on the front of the unit.
- Do not obstruct the output nozzle.
- Do not open the unit for any reason. There are no user serviceable parts inside, and all maintenance and repair procedures should be referred to an authorized vendor or technician.
- Only a certified electrician may replace the power cord.
- Clean the unit prior to storage to avoid damage.

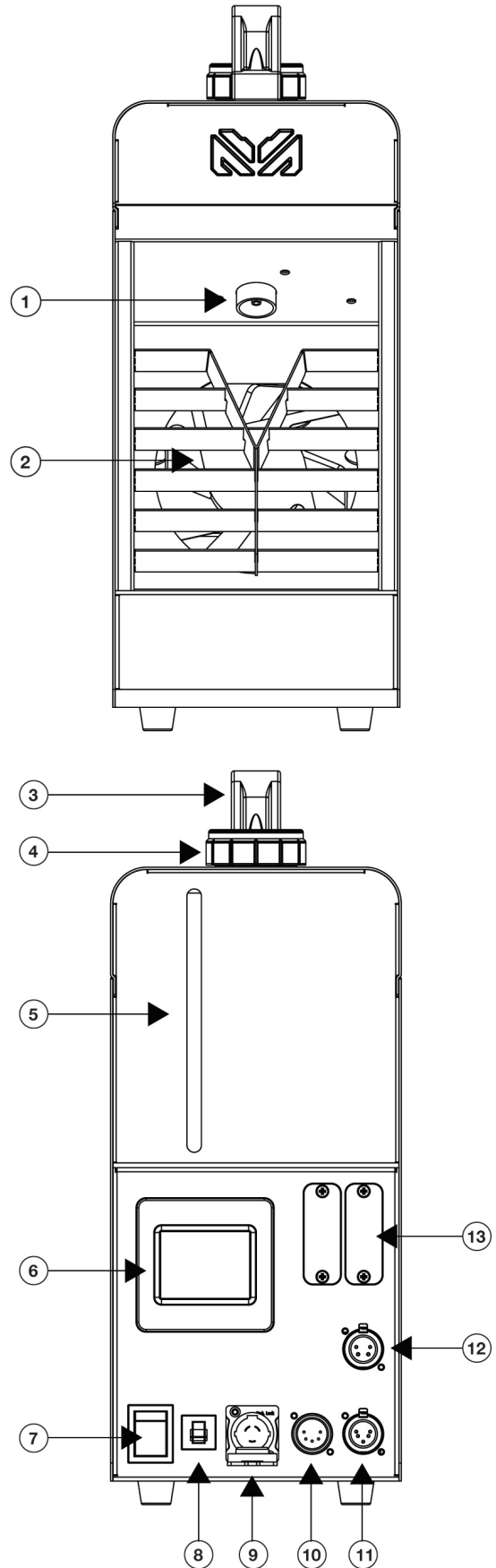
## **POWER SUPPLY CORD:**

- A short power supply cord (or short detachable power-supply cord) is provided to reduce the risk of a person becoming entangled in or tripping over the cord.
- Extension cords (or long detachable power-supply cords) are available and may be used as long as care is exercised during use.
- If an extension cord (or long detachable power-supply cord) is used, follow the guidelines below:
  1. The indicated electrical rating of the cord should meet or exceed the rating of the device.
  2. If the device is of the grounded type, the cord must use a grounding type 3-wire cord.
  3. The cord should be routed in such a way as not to cause a tripping hazard or result in unintentional snagging or pulling of the cord, especially in the presence of children.



# OVERVIEW

1. Output Nozzle
2. Fan
3. Carrying Handle
4. Fluid Reservoir Cap
5. Fluid Level
6. Touch Screen Display
7. Power Switch
8. Breaker
9. Locking Power Cable Input
10. Locking 5-Pin XLR Connector In
11. Locking 5-Pin XLR Connector Out
12. Remote Control Connection
13. Card Inputs



## SET UP

1. Open the shipping carton and carefully remove the unit and all included items from the shipping carton.
2. Be sure to remove all the packing material especially around the nozzle.
3. Set the machine on a flat dry surface. Remove the fluid reservoir cap and carefully fill the fog fluid reservoir with Atmosity Extreme Filtered water based smoke & haze fluid. Once the fluid tank is filled, replace and tighten the reservoir cap.
4. Connect the unit to a matching power supply and put the power switch into the "ON" position. Once power is applied, the fan will begin to operate and the machine will begin to heat up. When the machine is heating up, the display will read "HEATING" in the top left corner with the heating percentage.
5. The machine takes 6 minutes to heat up. When the machine has reached its operating temperature the display will read "**READY**".
6. To emit haze, select your desired operating mode using the touch screen display. See the Control Panel and System Menu sections of this manual.

# REMOTE DEVICE MANAGEMENT (RDM)

**NOTE: In order for RDM to work properly, RDM enabled equipment must be used throughout the entire system, including DMX data splitters and wireless systems.**

Remote Device Management (RDM) is a protocol that sits on top of the DMX512 data standard for lighting, allowing the DMX systems of the fixtures to be modified and monitored remotely. This protocol is ideal for instances in which a unit is installed in a location that is not easily accessible.

With RDM, the DMX512 system becomes bi-directional, allowing a compatible RDM enabled controller to send out a signal to devices on the wire, as well as allowing the fixture to respond (known as a GET command). The controller can then use its SET command to modify settings that would typically have to be changed or viewed directly via the unit's display screen, including the DMX Address, DMX Channel Mode, and Temperature Sensors.

## FIXTURE RDM INFORMATION:

RDM Code	Device Model ID	Personality ID
22A6H	1810	1 (1) 3 (2) 5 (3)

**Please be aware that not all RDM devices support all RDM features**, and therefore it is important to check beforehand to ensure that the equipment that you are considering includes all of the features that you require.

The following parameters are accessible in RDM on this device:

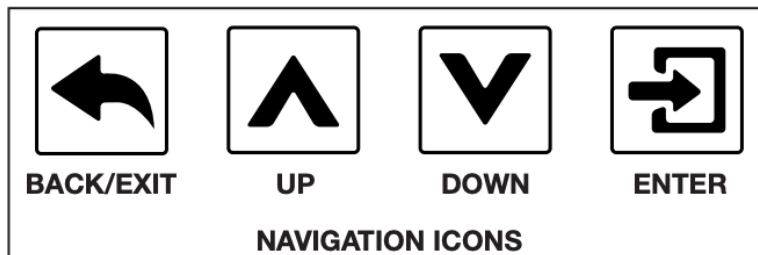
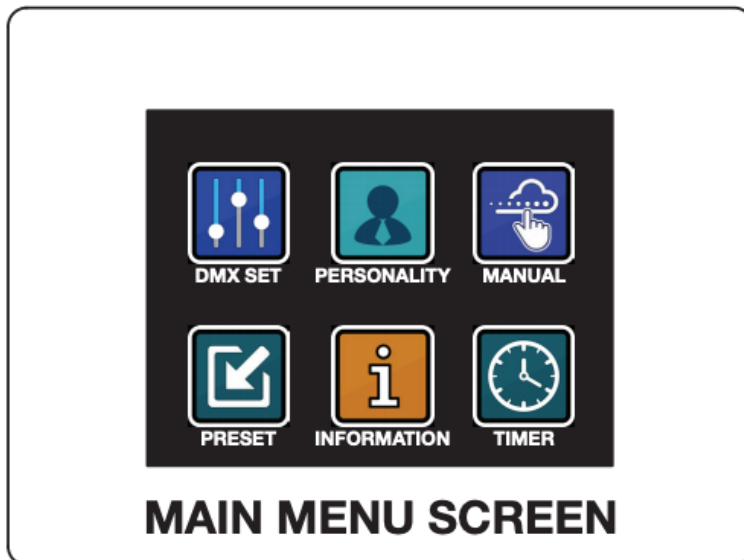
[0x1000] Identify Device
[0x00F0] DMX Start Address
[0x00C0] Software Version Label
[0x0060] Device Info
[0x0080] Device Model Description
[0x0081] Manufacturer Label
[0x0082] Device Label
[0x0050] Supported Parameters
[0x00E1] DMX Personality Description
[0x00E0] DMX Personality
[0x0200] Sensor Definition
[0x0201] Sensor Value

# CONTROL PANEL




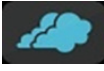


This fixture includes a system menu with an easy to navigate touch screen control panel where all necessary settings and adjustments are made. When first powering on the fixture, the fixture’s main menu will be displayed (**see Main Menu Screen below**).

Press the main menu icon you would like to access. Use the **ENTER** button to access sub menus and use the **UP** and **DOWN** buttons to make adjustments. Press the **ENTER** button to confirm your adjustments. You may exit the main menu at any time without making any adjustments by pressing the **BACK/EXIT** button.

**TIMER MENU:** The timer sub menu includes fog output adjustment, fan adjustment, duration adjustment, and interval adjustment. To access the **TIMER** adjustment menu, press the **SETTINGS** icon located at the bottom of the screen. Use the **UP** and **DOWN** buttons to make your adjustments and press **ENTER** to confirm. When all settings have been made, press the **PLAY/START** button to begin timer fogging.





# SYSTEM MENU


MENU	SUBMENU	OPTIONS	DESCRIPTION	
 <b>DMX SET</b>	DMX Addr	001 - XXX	DMX Addressing	
	DMX Mode	1 / 3 / 5	DMX Channel Mode Selection	
 <b>PERSONALITY</b>	MagApp Set	MagApp Name	0-XXXX	Displays MagApp network name
		MagApp Password	00000000 - 00009999	MagApp password
		MagApp IP		MagApp IP displayed
		MagApp Port	0-65535	Network port
		MagApp Reset	Complete / Failed, try again	Network connection reset
		MagApp->DMX & MagFly	On / Off	DMX or MagFly transmission
	LCD Set	Screen OFF: Never/10s/40s/1min/5min/10min/ 20min	Display blackout time	
	MagFly Set	MagFly Channel: 0-14	MagFly channel setting	
		MagFly: On / Off	MagFly activation	
	No Fluid	On / Off	Activate/deactivate no fluid warning	
	MagRF Learn			
Last State	Yes / No	Activate/deactivate last state		
Default	Yes / No	Restore factory settings		
 <b>MANUAL</b>	 Fog	1% - 100%	Manual control	
	 Fan	20% - 100%		
 <b>TIMER</b>	Fog Output	1% - 100%	Fog output setting	
	Fan Speed	20% - 100%	Fan speed setting	
	Interval	0s - 2500s	Interval setting	
	Duration	0s - 250s	Duration setting	

CONTINUED ON NEXT PAGE

# SYSTEM MENU

MENU	SUBMENU	OPTIONS	DESCRIPTION
 <b>PRESET</b>	Preset 1:		
	<ul style="list-style-type: none"> <li>• Duration = 40mins</li> <li>• Interval = 20mins</li> <li>• Fog = 100%</li> <li>• Fan = 100%</li> </ul>		
	Preset 2:		
	<ul style="list-style-type: none"> <li>• Duration = 25mins</li> <li>• Interval = 10mins</li> <li>• Fog = 100%</li> <li>• Fan = 100%</li> </ul>		
	Preset 3:		Preset Settings 3 (Not Adjustable)
<ul style="list-style-type: none"> <li>• Duration = 10mins</li> <li>• Interval = 5mins</li> <li>• Fog = 100%</li> <li>• Fan = 100%</li> </ul>			
Preset 4:		Preset Settings 4 (Not Adjustable)	
<ul style="list-style-type: none"> <li>• Duration = 40mins</li> <li>• Interval = 20mins</li> <li>• Fog = 50%</li> <li>• Fan = 100%</li> </ul>			
Preset 5:		Preset Settings 5 (Not Adjustable)	
<ul style="list-style-type: none"> <li>• Duration = 10mins</li> <li>• Interval = 5mins</li> <li>• Fog = 50%</li> <li>• Fan = 100%</li> </ul>			
 <b>INFORMATION</b>	State	Normal / Error	Machine Status
	Slot 1	Null / MagFly / MagApp / MagRF	Slot 1 Status
	Slot 2	Null / MagFly / MagApp / MagRF	Slot 2 Status
	Last Control	LCD_auto / LCD_manual / DMX / MagApp / MagRF / MagRemote / Error	Current control status
	MagRemote State	Yes / No	MagRemote control status
	MagApp Connect	Null / Phone / Route / No	MagApp connection status
	MagApp IP	No / 0-255, 0-255, 0-255, 0-255	Current MagApp IP address
	MagFly CH.	XX	Current MagFly channel setting
	DMX Addr.	XXX	Current DMX address setting
	DMX Mode	X	Current DMX ch. mode setting
	Timer Output	XXX%	Current timer output setting
	Timer FanSp	XXX%	Current timer fan setting
CONTINUED ON NEXT PAGE			

# SYSTEM MENU

MENU	SUBMENU	OPTIONS	DESCRIPTION
 <b>INFORMATION</b>	Timer Int.	XXXXs	Current timer interval setting
	Timer Dur.	XXXs	Current timer duration setting
	Heat Proc.	XXX%	Heating process status
	No Fluid	Normal / Empty	Current fluid tank status
	Heater State	Normal / Error / No Heat	Heater status
	LCD Ver.	VX.X	Current LCD version
	Sftwr Ver.	VX.X	Current software version

## NOTES:

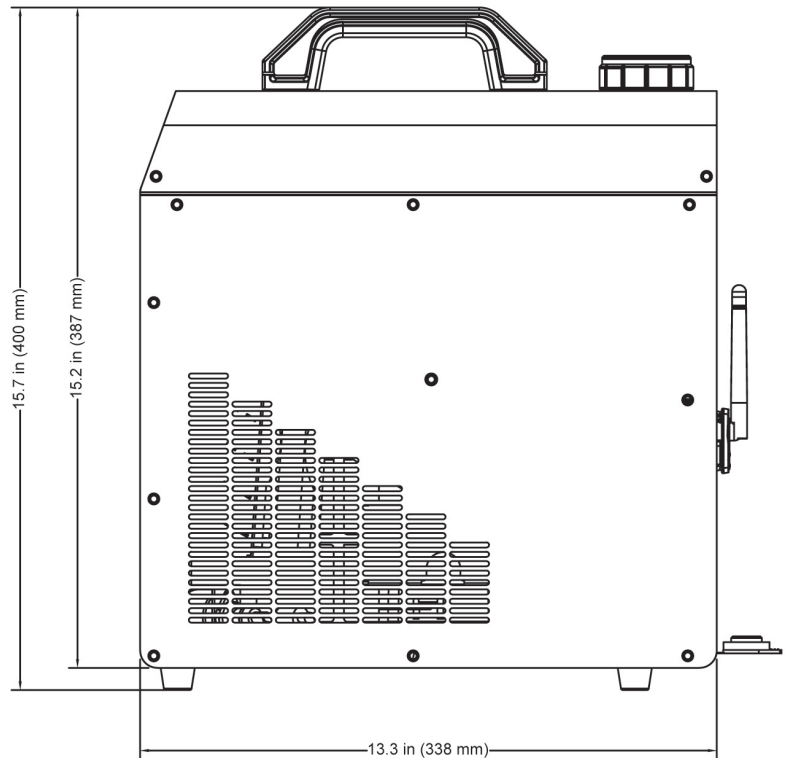
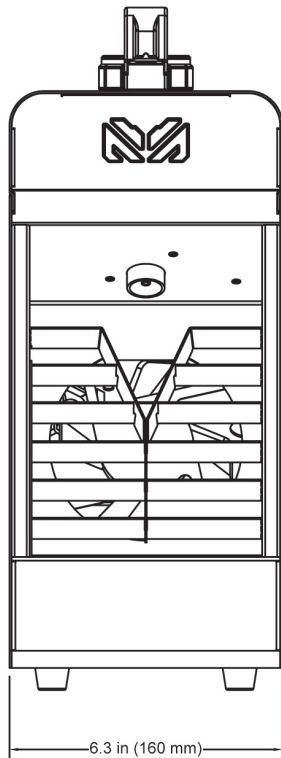
- MagApp SET** - When there is no card connected, selecting “**MagApp SET**” will display the following: “**Optional Module Not Installed**”.
- MagFly SET** - When there is no card connected, selecting “**MagFly SET**” will display the following: “**Optional Module Not Installed**”.
- MagRF LEARN** - When there is no card connected, selecting “**MagRF LEARN**” will display the following: “**Optional Module Not Installed**”.

## DMX CHANNEL FUNCTIONS & VALUES

CHANNEL			DMX VALUES	FUNCTION
1 CH	3 CH	5 CH		
				<b>Fog Output</b>
	1	1	000 - 005	Off
			006 - 255	On
1	2	2	000 - 255	<b>Output Volume, 0% - 100%</b>
	3	3	000 - 255	<b>Fan, 20% - 100%</b>
				<b>Output Duration</b>
		4	000 - 005	No Duration
			006 - 255	1s - 250s
				<b>Interval</b>
		5	000 - 005	No Interval
			006 - 255	10s - 2500s



## DIMENSIONAL DRAWINGS



## TROUBLE SHOOTING

If you experience low output, pump noise, or no fog output at all, disconnect and discontinue use immediately. Do not attempt to continue to operate as this may damage the machine. Check the fluid level, the breaker, and be sure the wall outlet is sending power. If all of the above appears to be okay, and the unit fails to operate correctly, the unit will require service. Please contact Magmatic Effects.

## CLEANING & MAINTENANCE

When storing your fog machine be sure to store it in a cool area. Cover the machine so that dust does not build up on the unit. When storing the machine for long periods of time, it is highly advised to at least run the machine every 3-4 months. Long periods of inactivity can severely shorten the life of your machine. Only run Atmosity Extreme Filtered Fog Fluid (AEF-4L) through your machine. Never run plain water, vinegar, or any other liquid solution through your machine. Running anything other than water based fog juice will severely damage your machine.

# SPECIFICATIONS

## PERFORMANCE:

Rated Power: 700W  
Max Output: 4,000 CFM\* (cu ft/min.) (113m3/min\*)  
Ready Time: Initial = 6 Minutes\*  
Fluid Capacity: 0.345 Gallons (1.3 Liters)  
Fluid Consumption: 0.115 oz/min (3.4 ml/min)

## COMPATIBLE FLUID:

Atomosity Extreme Filtered Fog Fluid (AEF-4L)

## CONSTRUCTION:

Thermally Protected Heat Exchanger  
Advanced HPA (High Pressure Air) Pump Technology  
Energy Saving Mode with Auto-Clean Process  
Sealed Fluid Reservoir  
External Visual Fluid Level Detection  
Compact Light Weight Mobile Design

## CONTROL:

3 DMX Channels Modes: (1/3/5)  
Onboard LCD Touch Control Panel  
DMX-512 and RDM Protocol Support  
Optional MAGFLY Wireless DMX Transceiver  
Optional MAGRF Wireless Wired Remotes

## CONNECTIONS:

Locking 5Pin XLR Connector In/Out  
IP65 Locking Power Connector In  
With Wired Digital Communication Network

## SIZE / WEIGHT:

Length: 13.3in (338mm)  
Width: 6.30in (160mm)  
Height: 15.70in (400mm)  
Weight: 22.48in (10.2kg)

## ELECTRICAL:

AC120V 60Hz (US Version)  
AC230V 50Hz (EU Version)  
Breaker: 9A @ 120VAC (NFB)  
Breaker: 5A @ 230VAC - 240VAC (NFB)

## THERMAL:

Max. Ambient Temperature (Ta max) 104°F (40°C)  
Exterior Surface Temperature, Steady State: 122°F (50°C)

## OPTIONAL ACCESSORIES:

Magfly  
MagRF

## APPROVALS / RATINGS

CE | cETLus | FCC | IP20



**Intertek**  
**5011471**

## FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS:

**This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules.** These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used in accordance with the included instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- Reorient or relocate the device.
- Increase the separation between the device and the receiver.
- Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Please note that the changes or modifications of this product is not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**



