Snow Machine
Crisp Max High Power

User Manual

SAFETY GUIDELINES

This fixture is a sophisticated piece of electronic equipment. To guarantee smooth operation, it is important to follow all instructions and guidelines in this manual. Magmatic Effects is not responsible for injury and/or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of this fixture and only the original parts included with this fixture should be used for installation. Any modifications to the fixture 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 - FIXTURE MUST BE PROPERLY GROUNDED.

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 DEVICE 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 ANY CONDITIONS
KEEP UNIT IN AN UPRIGHT POSITION
NEVER OPERATE THIS UNIT WITH THE COVER REMOVED
UNPLUG FROM POWER DURING LONG PERIODS OF NON-USE
ENSURE TANK IS EMPTY BEFORE STORAGE OR TRANSPORT
DO NOT MOVE WHEN FILLED WITH FLUID
DISCONNECT POWER BEFORE ADDING FLUID OR PERFORMING MAINTENANCE**

THIS UNIT MUST OPERATE ON A DUTY CYCLE OF 10 MINUTE INTERVALS (10 MINUTES ON, 10 MINUTES OFF). IF THIS UNIT IS LEFT ON INDEFINITELY, IT WILL OVERHEAT AND AUTOMATICALLY SHUT OFF. THE UNIT WILL NOT OPERATE UNTIL IT HAS COOLED DOWN FOR A MINIMUM OF 10 MINUTES.

**FOR USE IN INDOOR / DRY LOCATIONS ONLY
DO NOT EXPOSE DEVICE 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.
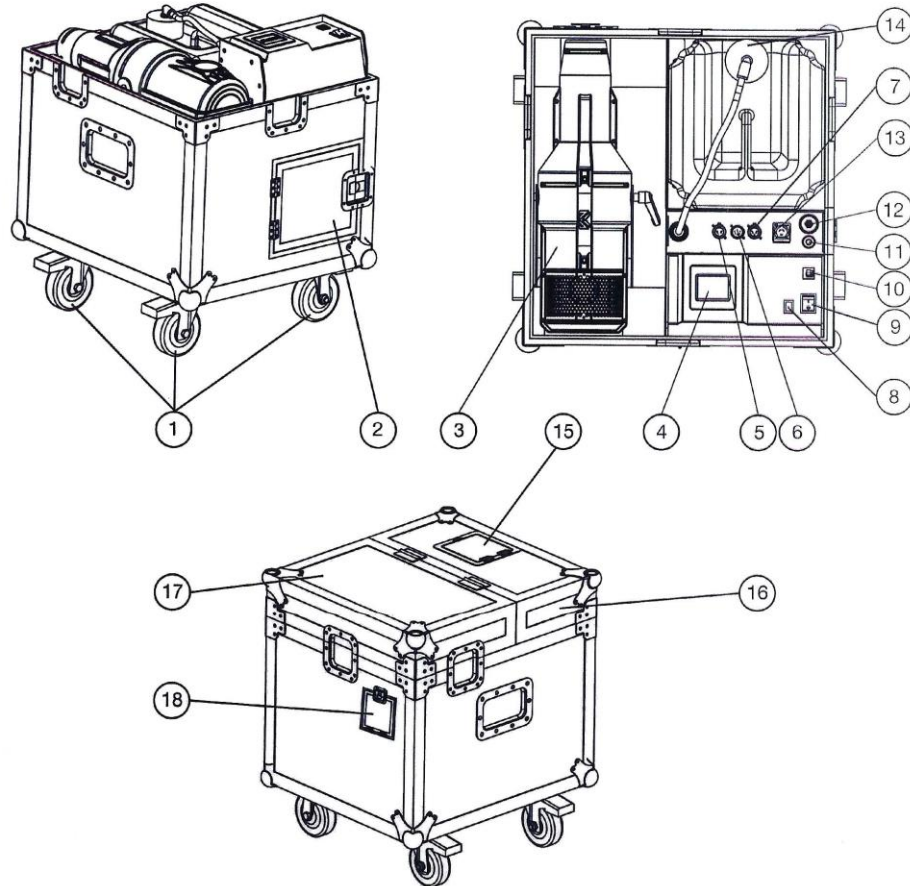- Not for space heating use.

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 be 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.
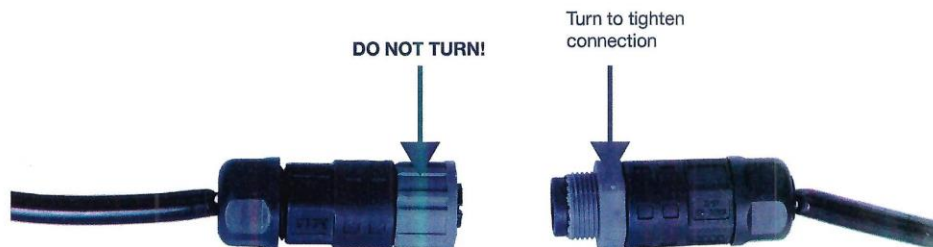
OVERVIEW

1. Casters w/ Brakes (x4)
2. Storage Compartment
3. Removable Snow Cannon
4. Touch Screen Display
5. Wired Remote Port
6. DMX In
7. DMX Out
8. Snow On/Off
9. Power Switch
10. Breaker
11. Snow Cannon Cable Connection
12. Snow Cannon Fluid Connection
13. Power In
14. Tank Filler Cap
15. Touch Screen Hatch
16. Control/Connection Access Lid
17. Tank Filler Access Lid
18. Snow Output Hatch

OPERATION

1. Open the shipping carton and carefully remove the device.

2. Be sure to remove ALL the packing material, paying particular attention to the area around the fog outlet vent. Set the device on a flat dry surface.

3. **Make sure that the unit is disconnected from power and the wheels are locked.**

4. Release the three (3) latches on the tank filler access lid, and open the lid. Be careful of the lid hinges and latches so as to avoid pinching your hands or fingers.

5. Unscrew the tank filler cap and fill the tank. **Use only Atmosity Premium Snow Fluid (APS-2L, APS-4L, APS-20L, APS-200L) as specified by the manufacturer. Use of other, non-approved fluids could severely damage your device.**

6. Screw the tank cap back on and and close and latch the tank filler access lid.

7. Connect the cable connection and the fluid connection on the connector panel to the matching connectors on the removable snow cannon, using the included 10-m hose and extension cable if needed. **NOTE: When securing the cable connections together, make sure to do so only by turning the thinner nut on the connector containing the MALE PINS! Twisting the connector containing the female pins may cause damage to the connector and expose the electrical components inside to the elements!**
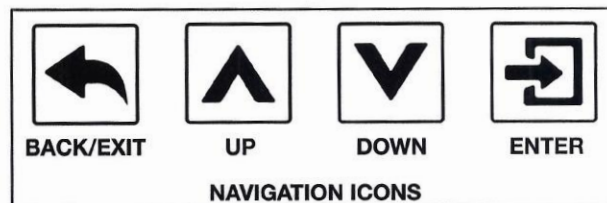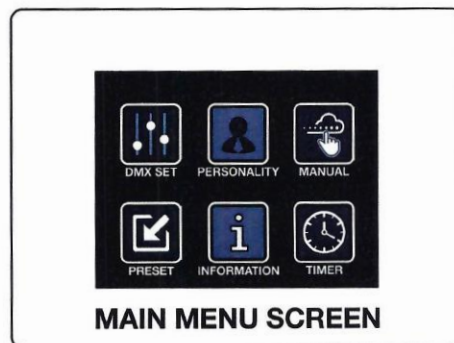

DO NOT TURN!

Turn to tighten connection

8. Connect the device to power and use the touch screen display to operate the device as desired.

9. When powering this device down after use, the CLEANING icon will flash on the screen. Do NOT disconnect the device from power while the CLEANING icon is flashing. The device's self-clean cycle must be allowed to finish before power is disconnected. This process should only take about 12 seconds.

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.

MAIN MENU SCREEN

NAVIGATION ICONS

BACK/EXIT   UP   DOWN   ENTER

TIMER ICONS (TIMER MENU)

BACK/EXIT   SETTINGS   PLAY/STOP

SYSTEM MENU

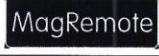|					
	DMX SETUP	DMX Addr	001 – 512		DMX Addressing
		DMX Mode	1 CH		DMX Channel Mode Selection
			3 CH		
			5 CH		
	PERSONALITY	MagApp Set	MagApp Name	0-XXXX	Displays Wifi Name
			MagApp Passcode	0000000 – 00009999	Wifi Password
			MagApp IP	0-255.0 ~ 255.0 ~ 255.0 ~ 255	Displays Wifi IP
			MagApp Port	0-65535	Network Port
			MagApp Reset	Complete	Network Connection Reset
				Failed, try again	
			MagApp->DMX & Magfly	On / Off	Magfly Transmit On
		LCD Set	Screen OFF: Never/10s/40s/1min/2min/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/Deactive No Fluid Warning
		MagRF Learn	Will notify whether MagRF connection is successful after 20s		
		Last State	Yes / No		Activate/Deactive Last State
		Default	Press 'ENTER'		Restore Factory Settings
	MANUAL	Snow	1% - 100%		Manual Control
		Fan	50% - 100%		
	TIMER	Snow Output	1% - 100%		Snow Output Setting
		Fan Speed	50% - 100%		Fan Speed Setting
		Interval	0-2500s		Interval Setting
		Duration	0-250s		Duration Setting

CONTINUED ON NEXT PAGE

SYSTEM MENU

	PRESET	Preset 1 - 10 min duration - 3 min interval - 100% snow - 100% fan		Preset Settings 1 (Not Adjustable)
		Preset 2 - 5 min duration - 2 min interval - 50% snow - 100% fan		Preset Settings 2 (Not Adjustable)
		Preset 3 - 3 min duration - 1 min interval - 30% snow - 100% fan		Preset Settings 3 (Not Adjustable)
		Preset 4 - 5 min duration - 2 min interval - 10% snow - 100% fan		Preset Settings 4 (Not Adjustable)
		Preset 5 - 3 min duration - 1 min interval - 10% snow - 100% fan		Preset Settings 5 (Not Adjustable)
	INFORMATION	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 Status	Yes / No	Remote Control Status
		MagApp Connect	Null / Phone / Route / No	Wifi Connection Status
		MagApp IP	No / 0~255, 0~255, 0~255, 0~255	Currrent Wifi IP Status
		Magfly CH	0-14	Current Magfly Channel Setting
		DMX Addr	1-512	Current DMX Address Setting
		DMX Mode	1 / 3 / 5	Current DMX Ch. Mode Setting
		Timer Output	1% - 100%	Current Timer Output Setting
		Timer Blower	50% / 100%	Current Timer Fan Setting
		Timer Int.	0s - 2500s	Current Timer Interval Setting
		Timer Dur.	0s - 250s	Current Timer Duration Setting
		No Fluid	Normal / Empty	Current Fluid Tank Status
		LCD Ver	V1.5	Current LCD Version
		Sftwr Ver	V1.2	Current Software Version

MESSAGE ICONS

Icon	Description
MagFly ▮▮▮▮	Icon appears when MagFly module is connected. 4-bar symbol on the right indicates signal strength, with 0 bars being weakest and 4 bars being strongest.
MagApp ▮▮▮▮	Icon appears when MagApp module is connected. 4-bar symbol on the right indicates signal strength, with 0 bars being weakest and 4 bars being strongest.
MagRF ((•))	Icon appears when MagRF module is connected. Note that the icon will only appear if an RF signal exists.
MagRemote	Icon appears when MagRemote is connected.
NO FLUID	Icon indicates that the fluid tank is empty, and disappears when fluid is added to the tank.
CLEANING	Icon appears and flashes during the duration of the 12-second self-cleaning operation.*

*NOTE: WHEN POWERING DOWN THE DEVICE, THE CLEANING ICON WILL FLASH ON THE SCREEN. DO NOT DISCONNECT THE POWER CORD UNTIL THE CLEANING ICON STOPS FLASHING. THE DEVICE MUST BE ALLOWED TO COMPLETE THE SELF-CLEANING PROCEDURE BEFORE POWER IS DISCONNECTED.

DMX CHANNEL FUNCTIONS & VALUES

CHANNEL			DMX VALUES	FUNCTION
1CH	3CH	5CH		
1				**Volume**
			000 - 005	Off
			006 - 255	1% - 100%
	1	1		**On/Off**
			000 - 005	Off
			006 - 255	On
	2	2	000 - 255	Volume 1% - 100%
	3	3		**Fan**
			000 - 127	50%
			128 - 255	100%
		4		**Duration**
			000 - 005	0s
			006 - 255	1s - 250s
		5		**Interval**
			000 - 005	0s
			006 - 255	10s - 2500s

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, and allows 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.
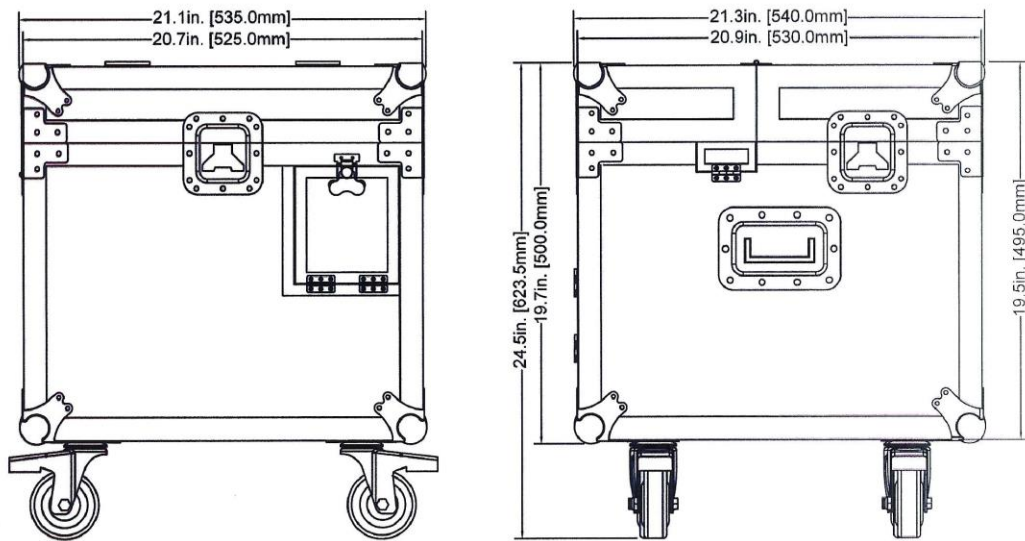
FIXTURE RDM INFORMATION:

Device ID	Device Model ID	RDM Code	Personality ID
OPEN	3120	22A6H	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

DIMENSIONAL DRAWINGS

21.1in. [535.0mm]
20.7in. [525.0mm]

21.3in. [540.0mm]
20.9in. [530.0mm]

24.5in. [623.5mm]
19.7in. [500.0mm]

19.5in. [495.0mm]

Drawings are not to scale.

TROUBLE SHOOTING

If you experience low output, pump noise, or no snow 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.

CLEANING & MAINTENANCE

STORAGE

When storing your snow 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 2-3 months. Long periods of inactivity can severly shorten the life of your machine.

SNOW FLUID

Only run Atmosity Premium Snow Fluid through your machine. NEVER run any other liquid solution through your machine. Running anything other then water based SNOW fluid will severly damage your machine.

SPECIFICATIONS

DYNAMIC EFFECTS:
Snow Adjustment: 1-100%
Fan Speed Adjustment: 50% or 100%
Snow Height Output: 26.25ft / 8m
Snow Distance Output: 39.3ft / 12m

CONTROL:
2 Card Inputs for optional cards
RDM (Remote Device Management)
Control Protocol: DMX512
DMX Modes: 3 (1, 3 & 5 Channel)
On-Board Timing Control
5 Factory Presets
4-pin Wired Remote Input
Touch Screen Display
Manual Trigger via Touch Display

CONNECTIONS:
Data Connector: 5-pin XLR In / Out for DMX connections, 4-pin XLR for optional wired remote.
Locking Power Connector

CONSTRUCTION / PHYSICAL / PERFORMANCE
Dimensions: (LxWxH) 21.3 x 21.1 x 24.5in / 540 x 535 x 623.5mm
Weight: 77.17lbs / 35kg
Fluid Tank Capacity: 20L
Fluid Consumption: 16.9 fl. oz/min (500ml/min)

COMPATIBLE FLUID
Atmosity Premium Snow Fluid
Models: APS-2L, APS-4L, APS-20L

ELECTRICAL:
Power Consumption: 1250w
Input Voltage: 120V, 230V, 240V, 50 & 60Hz
Breaker Size: 15A (120V Version)
Breaker Size: 9A (230V Version)

CERTIFICATIONS / QUALIFICATIONS / THERMAL
IP Rating: IP20, dry location
Maximum Temperature (Ambient): 104°F (40°C)
Exterior Surface Temperature: 122°F (50°C)

WHAT'S INCLUDED:
Flight Case
14AWG Locking Power Cable
Snow Canon
10-Meter Long Hose