



MAGMATIC PSC225 Crisp Max High-Output Snow Machine User Manual

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MAGMATIC

PSC225 Crisp Max
High-Output Snow Machine
User Manual



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PSC225 Crisp Max High-Output Snow Machine

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DOCUMENT VERSION

Due to additional product features and/or enhancements, an updated version of this document may be available online.

Please check www.elationlighting.com for the latest revision/update of this manual before beginning installation and/or programming.



<https://qrs.ly/mmbx43j>

Date	Document Version	Software Version	DMX Channel Mode	Notes
10/20/20	1	1.	1/ 3 / 5 Channels	Initial Release
10/27/20	2	1.	1/ 3 / 5 Channels	Updated Set Up & Specifications
8/24/21	3	1.	1/ 3 / 5 Channels	Updated Overview, Cleaning & Maintenance, Safety Guidelines, Control Panel, System Menu, Dimensional Drawing, and Specifications; added Message Icons
5/9/22	4	N/A	No change	Updated optional accessories
9/15/22	5	N/A	No change	Added RDM parameters & codes
10/11/22	6	N/A	No change	Updated safety guidelines

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 that 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

Twist-locking Power Cable (x1)
 Road Case (x1)
 Snow Cannon (x1)
 10-meter Hose (x1)
 10-meter Power Extension Cable (x1)

CUSTOMER SUPPORT

Contact MAGMATIC customer service for any product-related service and support needs.

Also visit 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

ELATION SERVICE EUROPE – Monday – Friday 08:30 to 17:00 CET Voice: +31 45 546 85 63 | Fax: +31 45 546 85 96 | support@elationlighting.eu

REPLACEMENT PARTS: Please visit 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 discharge lamps and 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 whatsoever for loss and/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 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 bear 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 Material 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, lenses, 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 a 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 is received damaged due to inadequate and/or improper packaging and/ or due to damage caused by the 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 whatsoever 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

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 the 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 – THE 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 THE UNIT IN AN UPRIGHT POSITION NEVER OPERATE THIS UNIT WITH THE COVER REMOVED UNPLUG FROM POWER DURING LONG PERIODS OF NON-USE ENSURE THE 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 THE DEVICE TO RAIN AND/OR MOISTURE

PLACE THE UNIT IN A WELL-VENTILATED AREA

ALLOW 40" (100CM) ABOVE AND AROUND THE UNIT FOR PROPER VENTILATION.

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.

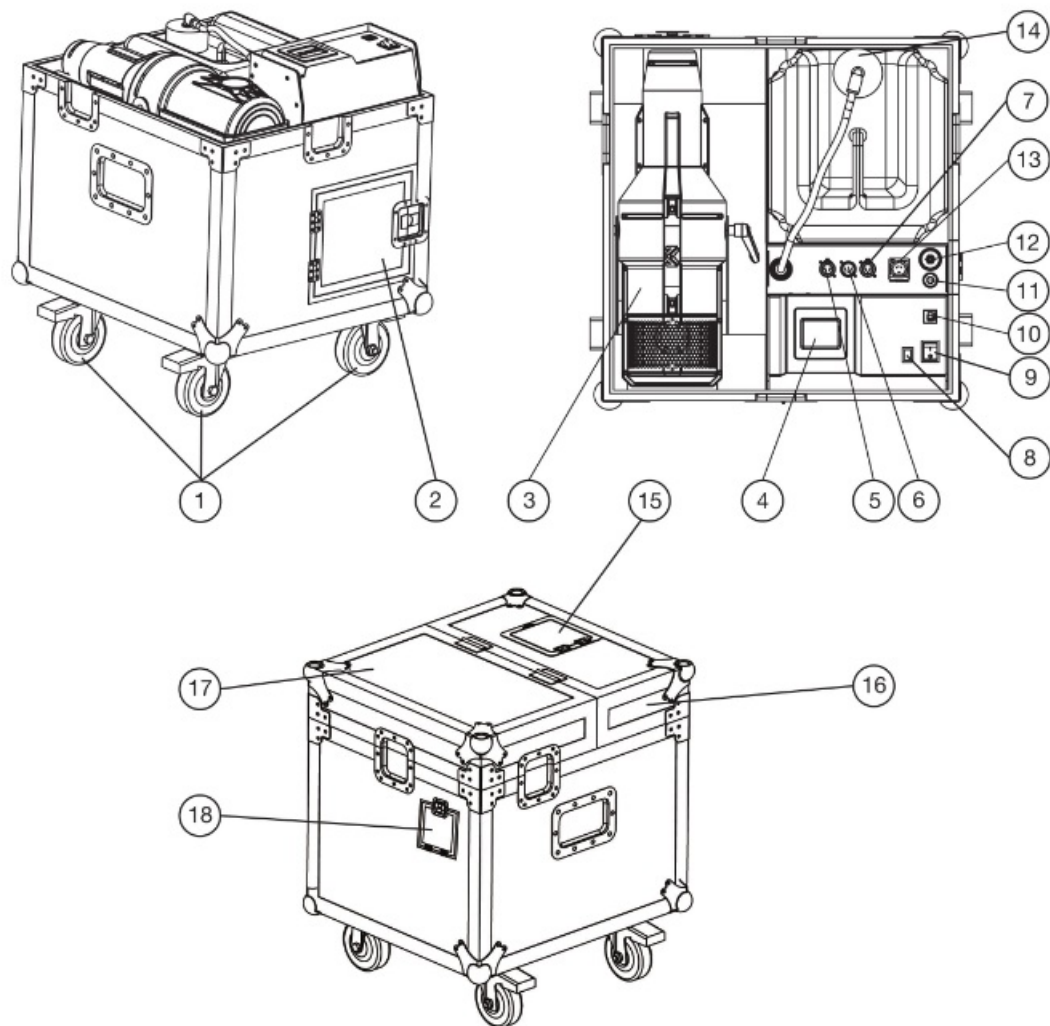
WARNING: To prevent the risk of personal injury, fire, and electric shock:

- Never leave the unit unattended while plugged in. Unplug the 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 the 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 the unit dry, and do not expose it 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



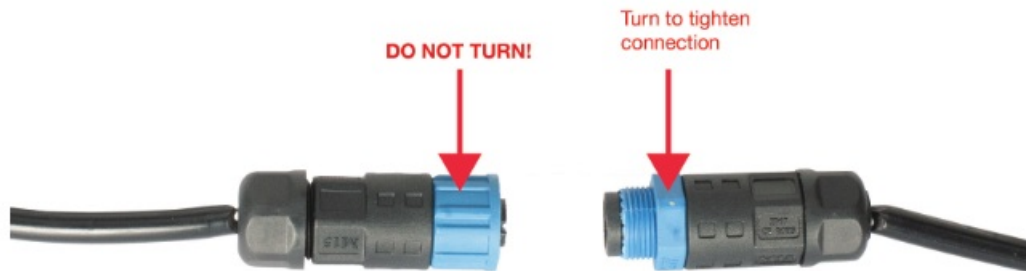
1. Casters w/ Brakes (x4)	10. Breaker
2. Storage Compartment	11. Snow Cannon Cable Connection
3. Removable Snow Cannon	12. Snow Cannon Fluid Connection
4. Touch Screen Display	13. Power In
5. Wired Remote Port	14. Tank Filler Cap
6. DMX In	15. Touch Screen Hatch
7. DMX Out	16. Control/Connection Access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



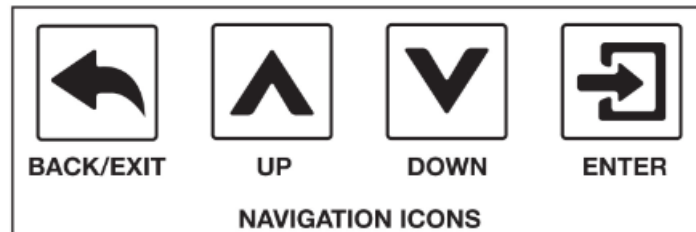
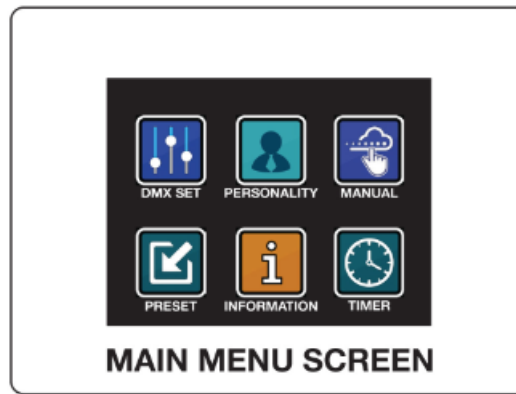
8. Connect the device to power and use the touchscreen display to operate the device as desired.
9. When powering this device down after use, the CLEANING icon will flash on the screen. Do NOT disconnect the device from power while the CLEANING icon is flashing. The device's self-clean cycle must be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

CONTROL PANEL


This fixture includes a system menu with an easy-to-navigate touchscreen 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 the 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.



SYSTEM MENU

	DMX SETUP	DMX Address	001-512		DMX Addressing
		DMX Mode	1 CH		DMX Channel Mode Selection
			3 CH		
			5 CH		
	PERSONALITY	Mapp Set	Mapp Name	0-XXXX	Displays Wifi Name
			Mapp Passcode	0000000-00009999	WMPassword
			Mapp IP	0-255.0 – 255.0 – 255.0 – 255	Displays Wifi IP
			Mapp Port	0-65535	Network Port
			Mapp 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 the 20s	
		Last State	Yes / No	Activate/Deactivate Last State
	MANUAL	 Snow	1%- 100%	
		 Fan	50% – 100%	Manual Control
	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







	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 – 2min interval – 10% snow -100% fan		Preset Settings 4 (Not Adjustable)



INFORMATION

Preset 5 – 3 min duration -1 min interval – 10% snow -100%fan		Preset Settings 5 (Not Adjustable)
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	LC D_auto / LCD manual / DMX / MagApp / MagRF / MagRemote / Error	Current Control Status
MagRemote Status	yes/No	Remote Control Status
Mapp Connect	Null / Phone / Route / No	Wifi Connection Status
Mapp IP	No / 0-255, 0-255, 0-255, 0-255	Current Wifi IP Status
Mayfly CH	0-14	Curr agent Magfly Channel Setti
DMX Address	1-512	Current DM% Address Setting
DMX Mode	1/3/5	Current DM% Ch. Mode Setting
Timer Output	1% – 100%	Current Timer Output Setting
Timer Blower	50% /100%	Current Timer Fan Setting
Tinier Int.	Os – 2500s	Current Turner Interval Setting
Timer Dur.	Os – 250s	Current Timer Duration Setting
No Fluid	Normal/Empty	Current Fluid Tank Status
LCD Ver	V1.5	Current LCD Vernon
Software Ver	V1.2	Current Software Version

MESSAGE ICONS

Icon	Description
	The icon appears when the MagFly module is connected. The 4-bar symbol on the right indicates signal strength, with 0 bars being the weakest and 4 bars being the strongest.
	The icon appears when the MagApp module is connected. The 4-bar symbol on the right indicates signal strength, with 0 bars being the weakest and 4 bars being the strongest.
	The icon appears when the MagRF module is connected. Note that the icon will only appear if an RF signal exists.
	The icon appears when MagRemote is connected.
	The icon indicates that the fluid tank is empty, and disappears when fluid is added to the tank.
	The 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 THE 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	Volume1% -100%
	3	3		Fan
			000-127	50%
			128-255	100%
		4		Duration
			000 – 005	0s
			006-255	1s – 250s
		5		Interval
			000 – 005	Os
			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:

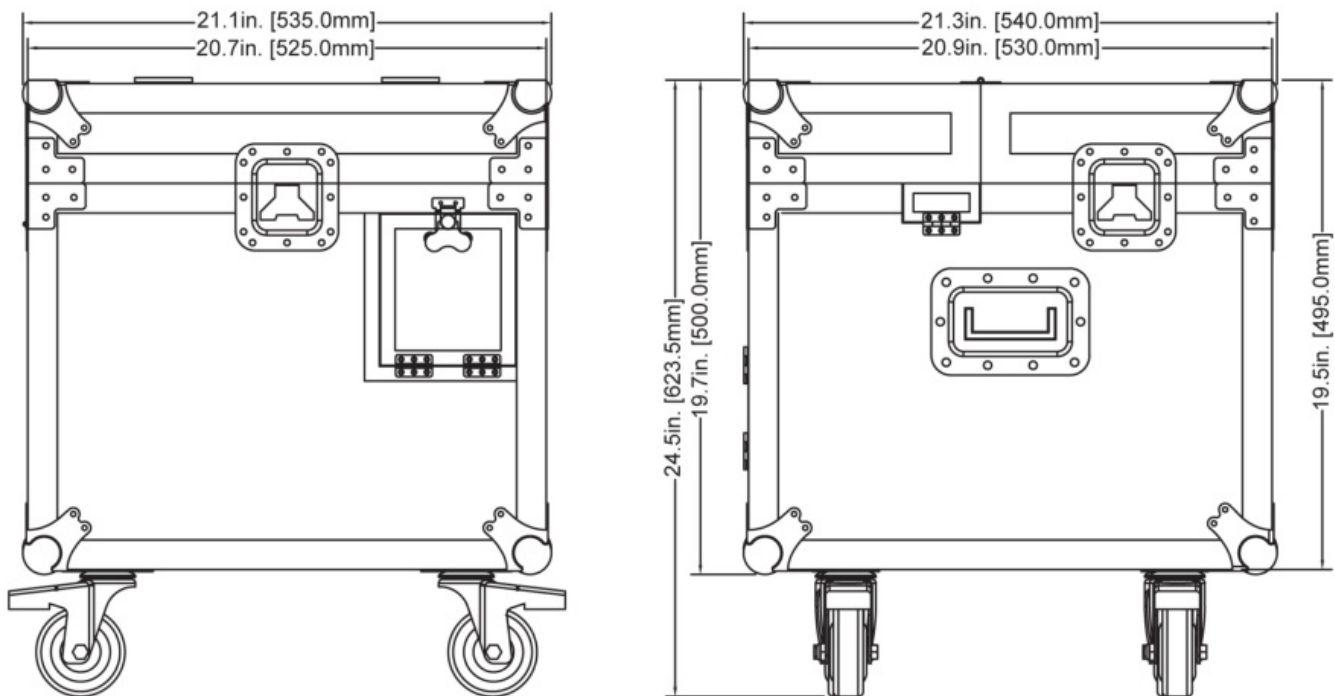
Device ID	Device Model ID	RDM Code	Personality ID
OPEN	3120	22A6H	1 (1) 3 (2) 5 (3)

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



Drawings are not to scale.

TROUBLESHOOTING

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, and 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

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 severely 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 than water-based SNOW fluid will severely 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

Atmos 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

OPTIONAL ACCESSORIES:

MagFLY Card

MagAPP Card

MagRF Card

PSCM Hose-10M (PSC100)

PM-DMX1


APPROVALS / RATINGS

CE | cETLus | IP20






Intertek
5011471
US SKU#: PSC225
UPC#: 810008261507

Documents / Resources

	<p>MAGMATIC PSC225 Crisp Max High-Output Snow Machine [pdf] User Manual PSC225 Crisp Max High-Output Snow Machine, PSC225, Crisp Max High-Output Snow Machine, High-Output Snow Machine, Snow Machine, Machine</p>
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References

-  [Topics | Elation Lighting Forums](#)
-  [Home page](#)
-  [Elation Professional - Professional Lighting Products](#)
-  [Elation Professional EUROPE - Professional Lighting Products](#)

Manuals+.