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MAGMATIC RSS160 Sidewinder High Velocity CO2 Simulator Fog Machine with LED Lights User Manual

SIDEWINDER
User Manual

US SKU#: RSS160
UPC#: 810008261538

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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/88bx7zw

Date	Document Version	Software Version	DMX Channel Mode	Notes
10/15/20	1.0	1.0	1 / 4 / 7 Channels	Initial Release
12/11/20	2.0	N/C	N/C	Updated Dimensional Drawings & Specifications
7/12/21	3.0	N/C	N/C	Updated Operation & Specifications

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)

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

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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.
NEVER POINT OR AIM A FOG MACHINE TOWARDS PEOPLE OR THEIR CLOTHING. THIS UNIT EMITS HOT VAPOR AND SHOULD BE USED WITH THE SAME CARE THAT YOU WOULD OBSERVE WHEN USING AN ELECTRIC KETTLE OR IRON.

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 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 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 are 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 installation of this fixture and only the original rigging 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 ANDARE 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 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.
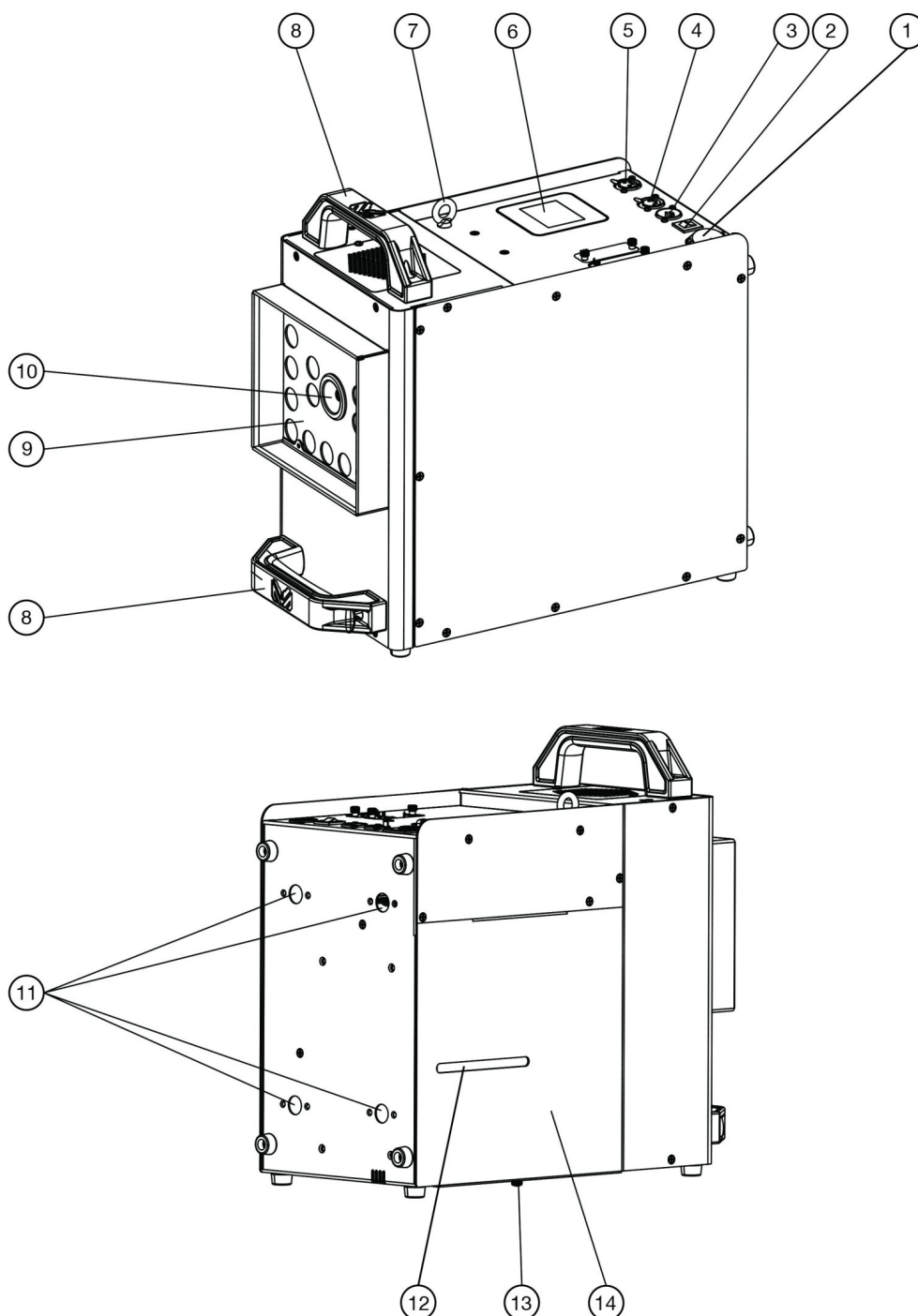
SAFETY GUIDELINES

– CAUTION: Fog machines may set off smoke alarms!
– Do not attempt installation and/or operation of this device without proper knowledge of how to do so.
– Do not point or direct fog output in an unsafe direction.
– Do not touch the front nozzle while the machine is in operation, or immediately after the device has been shut down, as the nozzle may get hot during operation.
– Do not shake the device, and avoid brute force when installing and/or operating.
– Be sure to save the packing carton in the unlikely event the device may have to be returned for service.
– Do not spill water or other liquids into or onto the device. Be sure that all the fog fluid is kept inside the fluid reservoir.
– Be sure that the local power outlet matches the required voltage for the device.
– Do not remove components or disassemble the device. There are no user-serviceable parts inside.
– Never connect this device to a dimmer pack.
– Do not attempt to operate this device if it has been damaged in any way.
– Never use this device with the cover removed.
– To reduce the risk of electrical shock or fire, do not expose this device to rain or moisture.
– Do not attempt to operate this device if the power cord has been frayed, crimped, and/or damaged. Replace any damaged power cords with new cords of the same power rating.
– Do not remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
– Always disconnect from main power before making any connection, performing cleaning or maintenance, or adding or draining fluid.
– Always drain the fluid before moving the device.
– Always be sure to mount this device in an area that will allow proper ventilation.
– Always disconnect power cords during long periods of non-use.
– This unit is intended for indoor use only. The use of this product outdoors voids all warranties.
– Always mount this unit in a safe and stable matter.
– Please route your power cord out of the way of foot traffic. Power cords should be routed so they are not likely to be walked on, or pinched by items placed upon or against them.
– The device should be serviced by qualified service personnel when:

- The power cords or plugs have become damaged.

- Objects have fallen on and/or liquid has spilled into the device.

- The device has been exposed to rain and/or moisture.

- The device does not operate normally or exhibits a marked change in performance.

OVERVIEW

1. Power In	8. Carry Handles (x2)
2. Breaker	9. LED Array
3. DMX In	10. Fog Outlet
4. DMX Out	11. Mounting Clamp Points (x4)
5. Wired Remote Port	12. Tank Level Gauge
6. Touch Display Screen	13. Latch Screw
7. Safety Cable Attachment	14. Tank Access Panel

OPERATION

- When first unboxing, open the shipping carton and carefully remove the device. Be sure to remove ALL the packing material, paying particular attention to the area around the fog outlet vent.
- Always set up the device on a flat dry surface.
- **Make sure that the unit is disconnected from power before adding any fluid to the tank.**

- To access the fluid tank, unscrew the latch screw that is located on the backside of the unit, near the printed notice about the tank fluid, then open the access panel.
- To fill the tank, remove the tank from behind the tank access panel. Unscrew the tank cap and fill with MAGMATIC ATMOSITY fluid (SKU# AFF only), then replace the cap.
- Never run the device on anything other than an approved, MAGMATIC branded fluid, as doing so can result in severe damage to your device.
- When placing the tank back behind the access panel, be careful not to pinch, twist, or tangle the feed tube connected to the tank cap.
- To close and secure the tank access panel, tighten the latch screw by pushing it down while rotating.
- After reconnecting the device to a power source and switching it on, allow the fluid to warm up for at least nine (9) minutes before beginning fog emission.
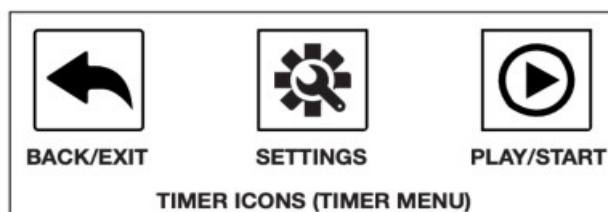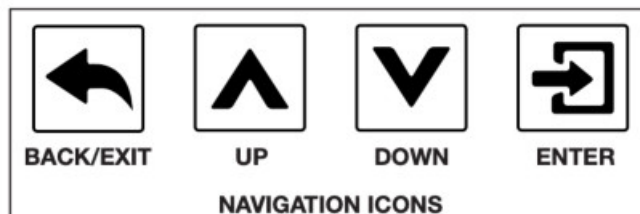
PLEASE NOTE:
While the fog duration setting can be set as high as 250 seconds, the individual bursts of continuous fog output will only occur for a maximum of 8 seconds. For example, when the user sets a duration of 250 seconds, this does NOT mean that the device will be emitting fog continuously for the entire 250-second period. Rather, the device will produce a series of shorter fog bursts, each lasting up to 8 seconds, throughout the 250-second period.

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 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.

MAIN MENU SCREEN

BACK/EXIT   UP   DOWN   ENTER

NAVIGATION ICONS

BACK/EXIT   SETTINGS   PLAY/START

TIMER ICONS (TIMER MENU)
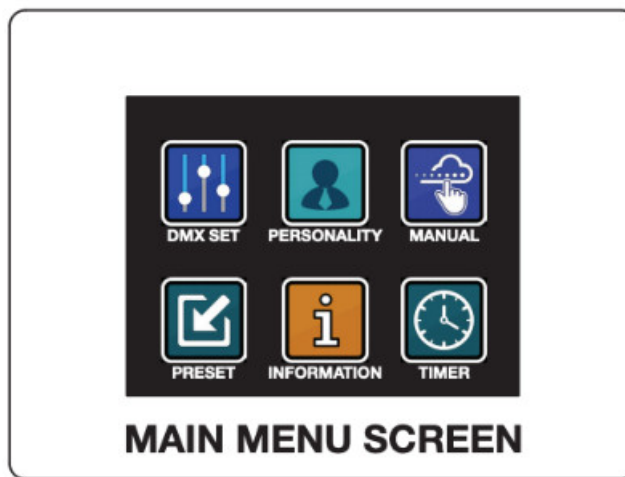
SYSTEM MENU

	DMX SET	DMX ADDRESS	1 – 512		
		DMX MODE	1-CH		
			4-CH		
			7-CH		
			Wifi Name		
			Wifi Passcode		
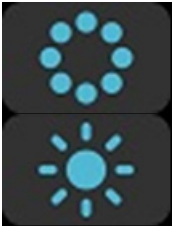
		Wifi Set	Wifi IP		
			Willi Port		
			Reset Network	Complete	
				Failed, try again	
			Wifi > DMX &Magfly	On / Off	Mows APP data to be converted to DMX data **and** then sent out via DMX port and M a"
	PERSONAUTY	LCD Set	Screen OFF	Never	
				10s	
				The 40s	
				1 min	
				2 min	
				5 min	
				10 min	

			20 min	
		Display Flip	0 deg / 180 deg	
		Magfly Set	Magfly Channel	0 – 14	When Magill? is not equipped. selecting this function causes 'Optional Module Not Installed‾ to show on the screen.

	PERSONALTY (cont'd from prey page)	MagRF Learn	Frequency Matching feature. The display will read Connected" if the connection attempt succeeds within 20 seconds. Otherwise, the display will read "Connection Failed."	When Map)/ is not equipped. selecting this function causes "Optional Module Not Installed" to show on t he
		Last State	Yes / No	When powered up, the device adheres to last settings used before power was shut off
		Default	Yes / No	Restore to factory settings
	MANUAL		Off	
			Auto 1-4	
			Color 1-50	

		Intensity 0% – 100%		
 BACK/EXIT SETTINGS PLAY/START TIMER ICONS (TIMER MENU)	TIMER	Interval	0 – 2500 s	Start or pause device operation according to these values by pressuring the Play/Start icon.
		Duration	0 – 250 s	
			LED Off	
			Auto 1-4	
			Color 1-50	
			Intensity 0% – 100%	
	PRESET	OPT Effect	OPT1	Adjusts fog hang time.
			2	
			OPTOPT3	
			OPT4	

			On	LED on

		LED Status		
			Follow	LED illuminates in sync with fog output
			Off	LED off
		LED Bright	0% – 100%	
		LED Effect	Off	Special effects
			Random	
			Pulse	
			Strobe	
		LED Style ol	LED Off	Manual fogging effects
			Auto 1-4	
			Color 1-50	
	PRESET (cont'd from prey page)	RF1 Style	LED Off	Wireless Remote Button 1
			Auto 1-4	
			Color 1-50	
			LED Off	

		RF2 Style	Auto 1-4	Wireless Remote Button 2
			Color 1-50	
		RF3 Style	LED Off	Wireless Remote Button 3
			Auto 1-4	
			Color 1-50	
		RF4 Style	LED Off	Wireless Remote Button 4
			Auto 1-4	
			Color 1-50	
	INFORMATION	State	Normal / Error	
		Slot 1	Null	
			Magaly	
			Wifi	
			MagRF	
			Null	

		Slot 2	Magaly	
			Wit	
			MagRF	

		Last Control	LCD_auto	Displays current source of device control
			LCD_manual	
			DMX	
			Wifi	
			MagRF	
			MagRemote	
			Error	
		MagRemote State	Yes / No	Displays whether remote control is connected
			Null	No available Wifi source
			Phone	Mobile phone Wifi source
		Wifi Connect		

	INFORMATION (cont'd from prey page)		Route	Router Wifi source
			No	Wifi module not installed
		Wifi IP	Display shows "No" if Wifi module is not installed	
		Magaly CH	0 – 14	
		DMX Addr	1 – 512	
		DMX Mode	1 / 4 / 7	
		Timer Int	Os – 2500s	
		Timer Dur	Os – 250s	
		Heating	0% – 100%	
		Heater State	Normal	
			Error	
			No Heat	
		LCD Ver	V1.2	
		Sftwr Ver	V1.0	

DMX CHANNEL FUNCTIONS & VALUES

CHANNEL			VALUES	FUNCTION
1-CH	4-CH	7-CH		
1	1	1		**Fog**
			000 – 009	Off
			010 -127	LED On (1-second delay after start of fog burst)
			128 – 255	Max Foq Output, LED On
	2			**Macro**
			000 – 004	LED Off
			005 – 154	Macro 1 – Macro 50 (see Macro Table)
			155 -180	Fog burst & lighting display loop (2s cycle)
			181 – 205	Fog burst & lighting display loop (1s cycle)
			206 – 230	Auto Mode 2
			231 – 255	Auto Mode 1
		2	000 – 255	**Red, 0% -100%**
		3	000 – 255	**Green, 0% – 100%**
		4	000 – 255	**Blue, 0% – 100%**
		5	000 – 255	**Amber, 0% -100%**
	3	6		**Flash**
			000 – 031	Off
			032 – 095	Random Strobe, slow to fast
			096 – 159	Pulse, effect in sequence
			160 – 255	Strobe effect, slow to fast
	4	7		**Dimmer**
			000 – 003	Off
			004 – 255	Dimmer, 1% to 100%

MACRO TABLE

MACRO NO.	DMX VALUES		MACRO NO.	DMX VALUES
1	005 – 007		26	080 – 082

2	008 – 010	27	083 – 085
3	011 – 013	28	086 – 088
4	014 – 016	29	089 – 091
5	017 – 019	30	092 – 094
6	020 – 022	31	095 – 097
7	023 – 025	32	098 – 100
8	026 – 028	33	101 – 103
9	029 – 031	34	104 – 106
10	032 – 034	35	107 – 109
11	035 – 037	36	110 – 112
12	038 – 040	37	113 – 115
13	041 – 043	38	116 – 118
14	044 – 046	39	119 – 121
15	047 – 049	40	122 – 124
16	050 – 052	41	125 – 127

17	053 – 055	42	128 – 130
18	056 – 058	43	131 – 133
19	059 – 061	44	134 – 136
20	062 – 064	45	137 – 139
21	065 – 067	46	140 – 142
22	068 – 070	47	143 – 145
23	071 – 073	48	146 – 148
24	074 – 076	49	149 – 151
25	077 – 079	50	152 – 154

DIMENSIONAL DRAWINGS
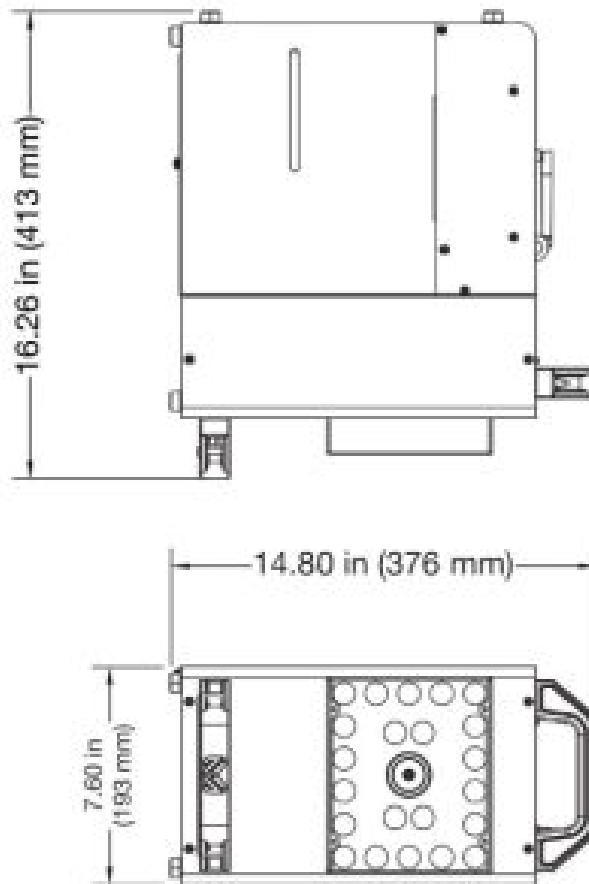
Dimensions may not be drawn to scale.

TROUBLESHOOTING

If you experience low output, pump noise, or no output at all, disconnect the device and discontinue use immediately. Do not attempt to continue operation as this may damage the machine. Check the fluid level, the breaker, and the wall outlet to make sure that it is sending power. If all the above factors do not appear to be causing the issue, and the unit still fails to operate correctly, the unit will require service. Please contact Magmatic Effects for assistance.

CLEANING & MAINTENANCE

When storing your device, be sure to store in a cool area. Cover the device so that dust does not build up on the device. When storing for long periods of time it is highly advisable to run the device at least once every 3-4 months. Long periods of inactivity can severely shorten the life of your device. Only run Magmatic's Atmosity fluid (SKU# AFF) through your machine. Never run plain water, vinegar, or any other liquid solution through your device, as doing so will severely damage your device.

SPECIFICATIONS

PERFORMANCE
Rated Power: 1450W
Max Output: 50,000 CFM* (cu ft/min.)
Max Continuous Output: 8 Seconds @ Full
Max Throw Distance: 25 Feet
Initial Ready Time: 9 Minutes
Cycling Ready Time: 1 Minute
Fluid Capacity: 2.5L
Fluid Consumption: 180ml/min.
COMPATIBLE FLUID
Atmos Flash Fog Fluid (AFF-4L)

Atmos 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 Channel Modes (1 / 4 / 7)

Onboard LCD Touch Control Panel

DMX-512 and RDM Protocol Support

Optional MagFLY Wireless DMX Transceiver

Optional MagRF and Wired Remotes

CONNECTIONS

5-pin locking XLR, In/Out Data Connectors

IP65 Locking Input Power Connector

With Wired Digital Communication Network

SIZE / WEIGHT

Length: 16.26 in. (413mm)

Width: 7.60 in. (193mm)

Height: 14.80 in. (376mm)

Weight: 29.5 lbs. (13.4kg)

ELECTRICAL

Input Voltage: 120V, 230V, 240V 50/60Hz

9A (NFB) Resettable Breaker

Max Power Consumption: 1560W

THERMAL

Maximum Ambient Temperature (Ta max) 104°F (40°C)

Exterior Surface Temperature, Steady State: 140°F (60°C)

APPROVALS / RATINGS

CE | cETLus (pending) | IP20

Specifications are subject to change without notice.

Documents / Resources

MAGMATIC SIDEWINDER User Manual	[**MAGMATIC RSS160 Sidewinder High Velocity CO2 Simulator Fog Machine with LED Lights**](#) [pdf] User Manual RSS160, Sidewinder High Velocity CO2 Simulator Fog Machine with LED Lights, Sidewinder, LED Lights Fog Machine

References

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