

NIMBUS

User Manual



Edition Notes

The Nimbus User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the Nimbus as of the release date of this edition.

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Document Printing

For best results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure the printer to scale the content accordingly.

Intended Audience

Any person installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

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Document Revision

Go to www.chauvetdj.com for the latest version.

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1. Before You Begin

What Is Included

- Nimbus
- Power cable
- powerCON to bare end cable (EU only)
- Quick Reference Guide

Unpacking Instructions

Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good condition.

Claims

If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier immediately, not Chauvet. Failure to report damage to the carrier immediately may invalidate a claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

Text Conventions

Convention	Meaning
1–512	A range of values
50/60	A set of values of which only one can be chosen
Settings	A menu option not to be modified
<ENTER>	A key to be pressed on the product's control panel
ON	A value to be entered or selected

Symbols

Symbol	Meaning
	Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator.
	Important installation or configuration information. The product may not function correctly if this information is not used.
	Useful information.

Safety Notes

These Safety Notes include important information about installation, use, and maintenance of the Nimbus.

- 
- **ALWAYS:**
 - ◆ Connect to a grounded circuit.
 - ◆ Connect to operating voltages as specified on the product's spec sticker.
 - ◆ Disconnect from its power source during periods of inactivity.
 - ◆ Heed all restrictions and warnings on the spec sticker.
 - ◆ Place in a location with at least 20 in (50 cm) of ventilation.
 - ◆ Drain the tank before transporting or storing the product.
 - ◆ Keep the machine level.
 - ◆ Clean the machine after every use.
 - ◆ Clean around the product during and after use, as surfaces may become slippery.
 - In the event of a serious operating problem, stop using immediately.
 - All fog machines may set off smoke detectors.
 - **DO NOT:**
 - ◆ Open this product or attempt any repairs. It contains no user-serviceable parts.
 - ◆ Use if the power cable is crimped or damaged.
 - ◆ Disconnect by pulling on the power cable.
 - ◆ Allow flammable materials close to the product when it is operating.
 - ◆ Touch the housing when it is on.
 - ◆ Block any ventilation holes/slots in the housing.
 - ◆ Connect to a dimmer or rheostat.
 - ◆ Carry the product by its power cable.
 - ◆ Operate in temperatures higher than 104°F (40°C).
 - ◆ Expose to environments that exceed the Ingress Protection (IP) rating.
 - ◆ Expose to rain or moisture.
 - ◆ Use outdoors.
 - ◆ Set this product on a flammable surface.
 - ◆ Add perfume, alcohol, gasoline or any other chemical to the water.
 - ◆ Use for space-heating purposes.
 - ◆ Overfill.
- 



Keep this User Manual for future use. If the product is sold to someone else, be sure that they also receive this document.

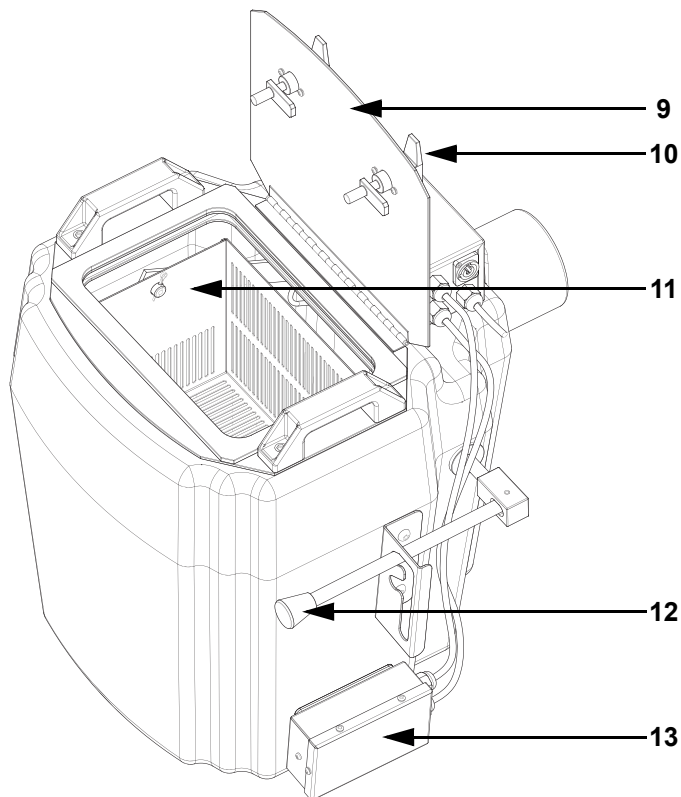
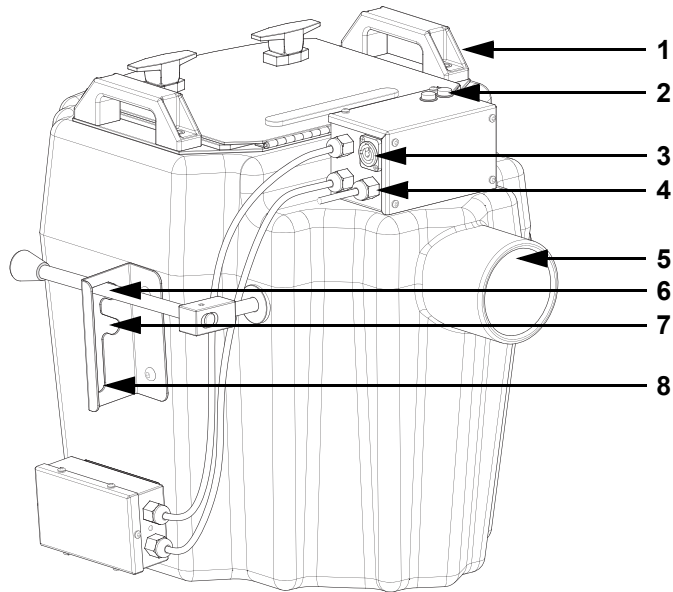
Dry Ice Warnings

This product uses dry ice (frozen CO₂) to produce fog by combining it with hot water. Follow these warnings to prevent damage to equipment and people:

- 
- **DO NOT:**
 - ◆ Cover or otherwise plug the output nozzle during operation, or otherwise store dry ice in a sealed container. Compression will cause dangerous pressure to build which can lead to a fatal explosion. Detonating a “dry ice bomb” is illegal in many jurisdictions and punishable by heavy fines and/or imprisonment.
 - ◆ Operate in a confined space. Ensure proper ventilation before use.
 - ◆ Handle dry ice with bare hands. Thick gloves are necessary to prevent injury.
 - ◆ Break dry ice without covering it with cloth or placing it in a cloth bag.
 - ◆ Break dry ice without eye protection.
 - ◆ Swallow dry ice. Doing so will cause severe internal injury.

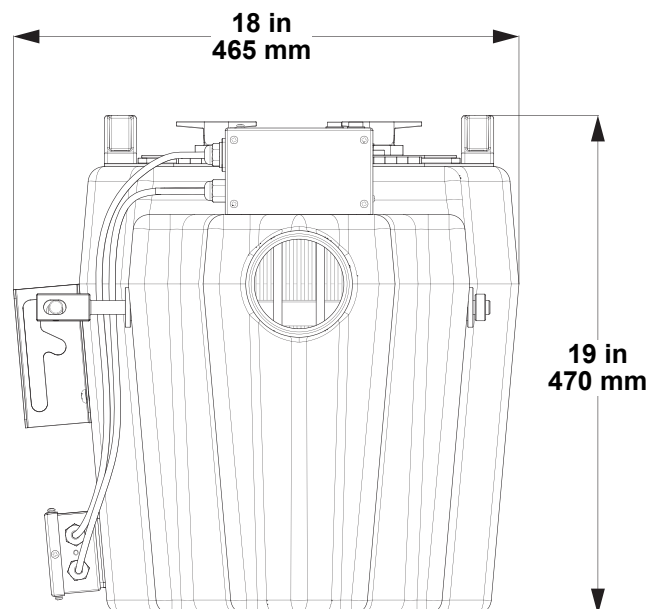
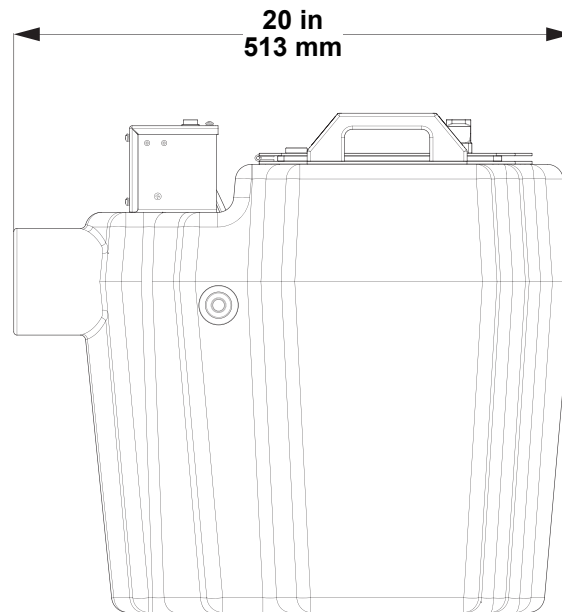
2. Introduction

Product Overview



#	Name
1	Carry handle (x2)
2	LED indicators
3	Optional power in
4	Power in (fixed)
5	Output nozzle
6	Top basket level
7	Second basket level
8	Third basket level
9	Lid
10	Latching knob (x2)
11	Dry ice basket
12	Basket lever
13	Heater

Product Dimensions



3. Setup

AC Power

The Nimbus has a fixed voltage power supply, and it can work with an input voltage range of either 120 VAC, 60 Hz or 230 VAC, 50 Hz, depending on the specific model.

To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart.

The listed current rating indicates the product's average current draw under normal conditions.



- **Always connect the product to a protected circuit (a circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.**



- **Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.**

EU Version AC Plug

The EU version of this product comes with a power input cable terminated with a powerCON connector on one end and bare wire on the other end. Use the table below to wire a plug.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow/Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green/Silver

Optional Dual-Element Mode

The Nimbus has an optional powerCON power input in addition to the fixed cable power input. Plug both power inputs into separate circuits to halve the time it takes to heat up to the optimum temperature.



- **DO NOT plug both power inputs into the same circuit. A breaker will trip.**

4. Operation

Operation Warnings



- **DO NOT TOUCH** the lid of the product during operation. It becomes very hot.
- **Place the dry ice in the basket ONLY.** Removing the basket may cause serious injury.
- This product may **NOT** be tilted. This product should be level at all times.

LED Indicators

The Nimbus has two LED indicators, one red and one green.

- Red indicates the heater is on. The heater will not turn on if there is not enough water.
- Green indicates when the water is heated to the optimum temperature.



The water will drop below the optimum temperature during operation. This is normal and will not interrupt output.

Operating Instructions

1. Place the product on a level surface.
2. Plug the product into power. If desired, plug the optional power input into a separate circuit.
3. Raise the basket to the top level (see the [Product Overview](#)) with the basket lever.
4. Open the lid and fill with water until the red LED indicator comes on, or up to 4.5 gallons (17 liters).



- **In Single-Element Mode, the product will take up to 50 minutes to heat up.**
- **In Dual-Element Mode, the product will take up to 30 minutes to heat up.**

5. Using protective gear, add up to 10 pounds (4.5 kg) of dry ice to the basket.



Load the dry ice ONLY when ready to operate.

6. Close the lid and latch it shut by rotating the knobs.
7. Use the basket lever to lower the basket to the second level (for low output) or the third level (for high output).
8. When output stops or slows, raise the basket to the top level before opening the lid to refill the dry ice or water.



It may be necessary to refill the water, due to evaporation. Operation may continue once the product has enough water to turn the red LED indicator back on.

Safety Shutoff

The heater will automatically turn off when the water level drops too low. When the red LED indicator turns off, add water until it turns back on to continue operation.

5. Maintenance

Product Maintenance

To maintain optimum performance and minimize wear, clean the product at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean the product, follow the instructions below:

1. Unplug the product from power.
2. Wait until the product and any remaining water are at room temperature.
3. Use thick gloves and eye protection to remove any remaining dry ice from the basket.
4. Dump any remaining water out of the product.



- **Remove any remaining dry ice from the basket with thick gloves and eye protection before dumping any remaining water.**
- **DO NOT dump any remaining water before it has cooled. Dumping hot water may cause injury or damage to other equipment.**

5. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface.

Storage

Before storing the Chauvet atmospheric product, empty the tank as described in the procedure above and do not refill the tank with water or dry ice before storing the product.



Test-run Chauvet atmospheric products monthly to achieve the best performance.

Chauvet does not guarantee products will withstand storage for long durations, even if the cleaning process is followed. Please use caution and test regularly to ensure the product continues to function properly.

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight (Empty)	Weight (Full)
20 in (513 mm)	18 in (465 mm)	19 in (470mm)	28.6 lb (13 kg)	75 lb (34 kg)

Note: Dimensions in inches are rounded.

Power

Power Supply Type	Range	Voltage Selection
Model-specific	120 VAC, 60 Hz or 220 VAC, 50 Hz	Fixed

Parameter	120 V, 60 Hz	120 V, 60 Hz	230 V, 50 Hz	230 V, 50 Hz
Mode	Single-Element	Dual-Element	Single-Element	Dual-Element
Consumption	1,500 W	3,000 W	1,400 W	3,000 W
Operating Current	12.6 A	25.2 A	6.2A	12.3 A

Power I/O	U.S./Worldwide	UK/Europe
Main power input connector	Fixed	Fixed
Main power cable plug	Edison (U.S.)	Local Plug
Secondary power input connector	powerCON	powerCON
Secondary power cable plug	Edison (U.S.)	Bare end

Operation

Tank Capacity	Average Runtime	Dry Ice Capacity
45 gal (1.7 l)	6 min	10 lb (4.5 kg)

Heat-Up Time (Single)	Reheat Time (Single)	Heat-Up Time (Dual)	Reheat Time (Dual)
50 min	30 min	30 min	15 min

Thermal

Maximum External Temperature	Maximum Water Temperature	Cooling System
104 °F (40 °C)	175 °F (79 °C)	Convection

Ordering

Product Name	Item Code	UPC Number
Nimbus (120 V)	09050429	781462207816
Nimbus (230 V)	09050451	781462208035
Nimbus (EU Version)	05070866	781462212148



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Warranty & Returns

For warranty terms and conditions and return information, please visit our website.

For customers in the United States and Mexico: www.chauvetlighting.com/warranty-registration.

For customers in the United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, and Germany: www.chauvetlighting.eu/warranty-registration.