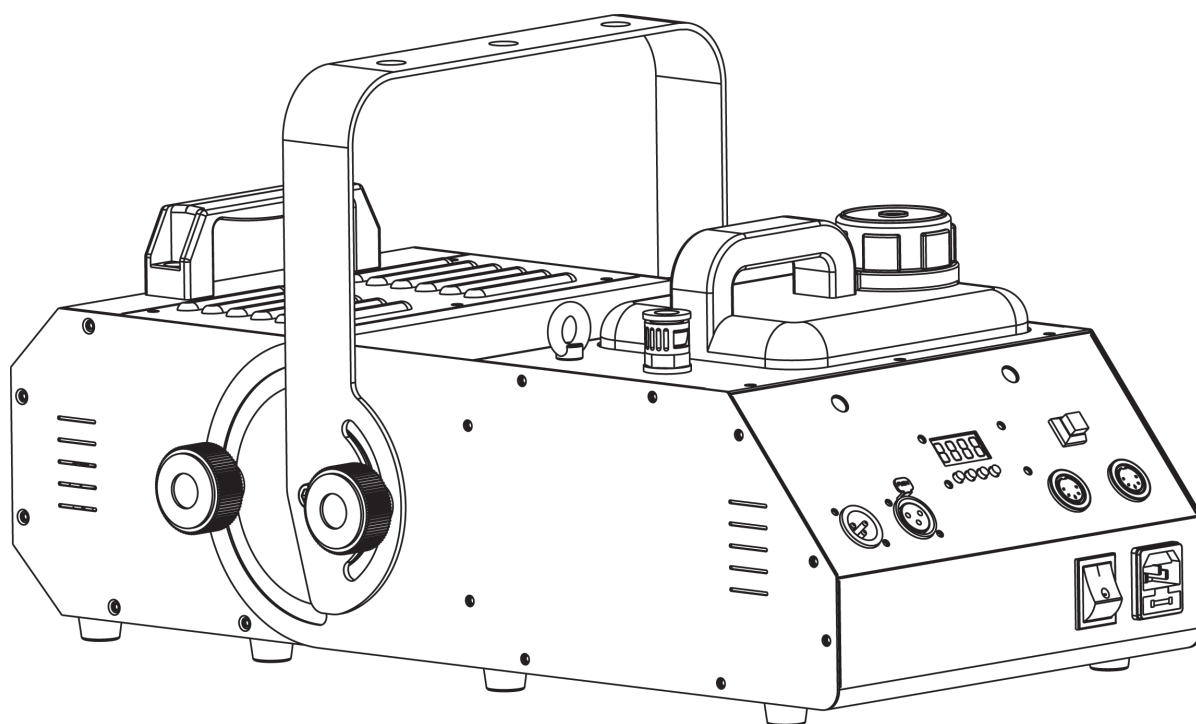


HURRICANE

1800 FLEX

Version 2

User Manual



CHAUVET®

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1. BEFORE YOU BEGIN

What Is Included

- Hurricane 1800 Flex
- FC-T Timed Remote Control
- Hanging Bracket with Mounting Hardware
- Warranty Card
- 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 your 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
Settings	A menu option
Menu > Settings	A sequence of menu options
<Enter>	A button

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.

Disclaimer

The information and specifications contained in this User Manual are subject to change without notice. Chauvet assumes no responsibility or liability for any errors or omissions, and reserves the right to revise or recreate this manual at any time. Download the latest version from www.chauvetlighting.com.

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Electronically published by Chauvet in the United States of America.

Product at a Glance

Use on Dimmer	⊘	Auto Programs	⊘
Outdoor Use	⊘	Fixed voltage (120 V or 230 V)	✓
Sound-Activated	⊘	Replaceable Fuse	✓
DMX	✓	User-Serviceable	⊘
Master/Slave	⊘	Duty Cycle	⊘

Safety Notes

These notes include important information about the mounting, usage, and maintenance of this product; read before using the product.



- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- Always disconnect the product from the power source before cleaning or replacing the fuse.
- Make sure the power cord is not crimped or damaged.
- Never disconnect the product from power by pulling or tugging on the cord.
- If mounting the product overhead, always secure to a fastening device using a safety cable.
- Make sure there are no flammable materials close to the product when operating.
- Do not touch the product's housing when operating because it may be very hot.
- Do not mount the product on a flammable surface (linoleum, carpet, wood, paper, carton, plastic, etc.).
- The product's nozzle is very hot during operation and it remains hot for a long time after operation has stopped.
- The fog exits the nozzle at a very high temperature. Keep a minimum distance of 6.5 ft (2 m) from the nozzle to the nearest object.
- Do not use the product as a space heater.
- Do not drink or come in contact with the fog fluid. If you do, call your local emergency service (911 in the US) for help.
- Do not add perfume, alcohol, gasoline, or any other flammables to the fog fluid.



- Always make sure that the voltage of the outlet to which you are connecting the product is within the range stated on the decal or rear panel of the product.
- The product is for indoor use only! (IP20) To prevent risk of fire or shock, do not expose the product to rain or moisture.
- Always install the product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Be sure that no ventilation slots on the product's housing are blocked.
- Never connect the product to a dimmer or rheostat.
- Make sure to replace the fuse with another of the same type and rating.
- Never carry the product from the power cord or any moving part. Always use the hanging/mounting bracket.
- The maximum ambient temperature (Ta) is 104 °F (40 °C). Do not operate the product at higher temperatures.
- In the event of a serious operating problem, stop using the product immediately.
- Never try to repair the product. Repairs carried out by unskilled people can lead to damage or malfunction. Contact the nearest authorized technical assistance center.
- This product is not intended for permanent installation.
- Use only CHAUVET water-based fog fluid.
- Drain the tank before transporting or storing the product.
- 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.



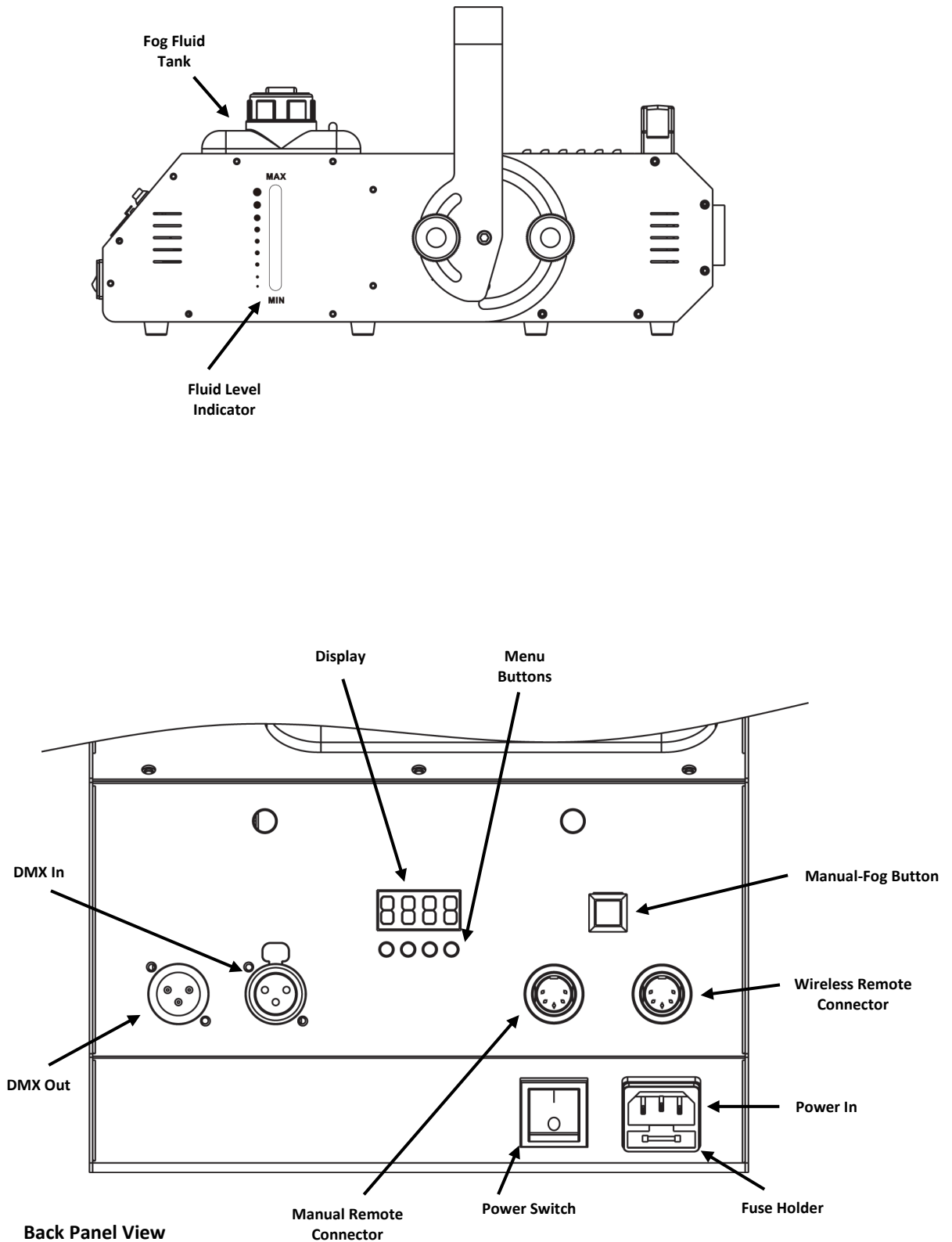
Keep this User Manual for future use. If you sell the product to another user, be sure to give this document to the next owner.



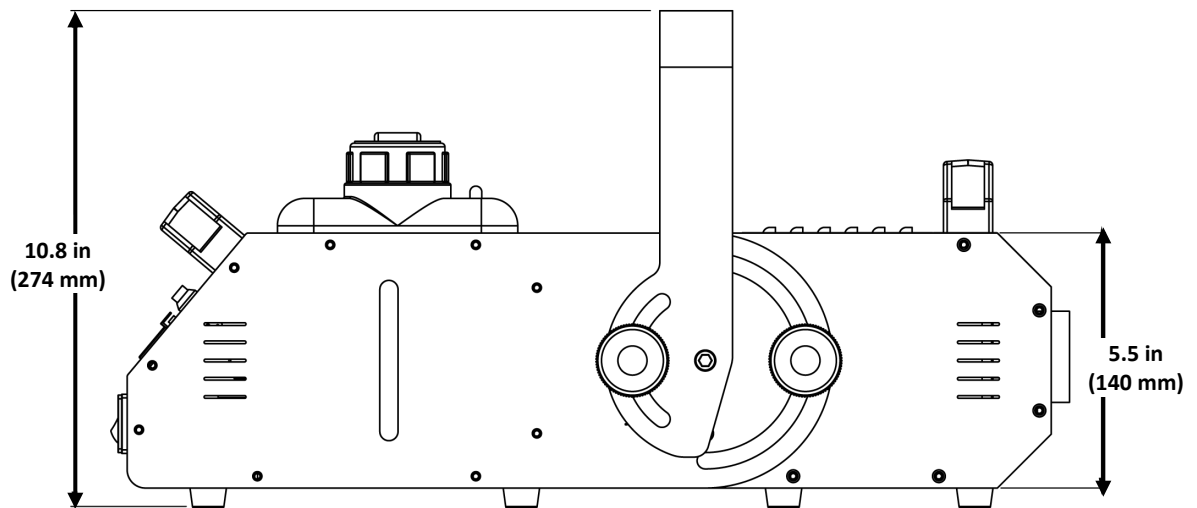
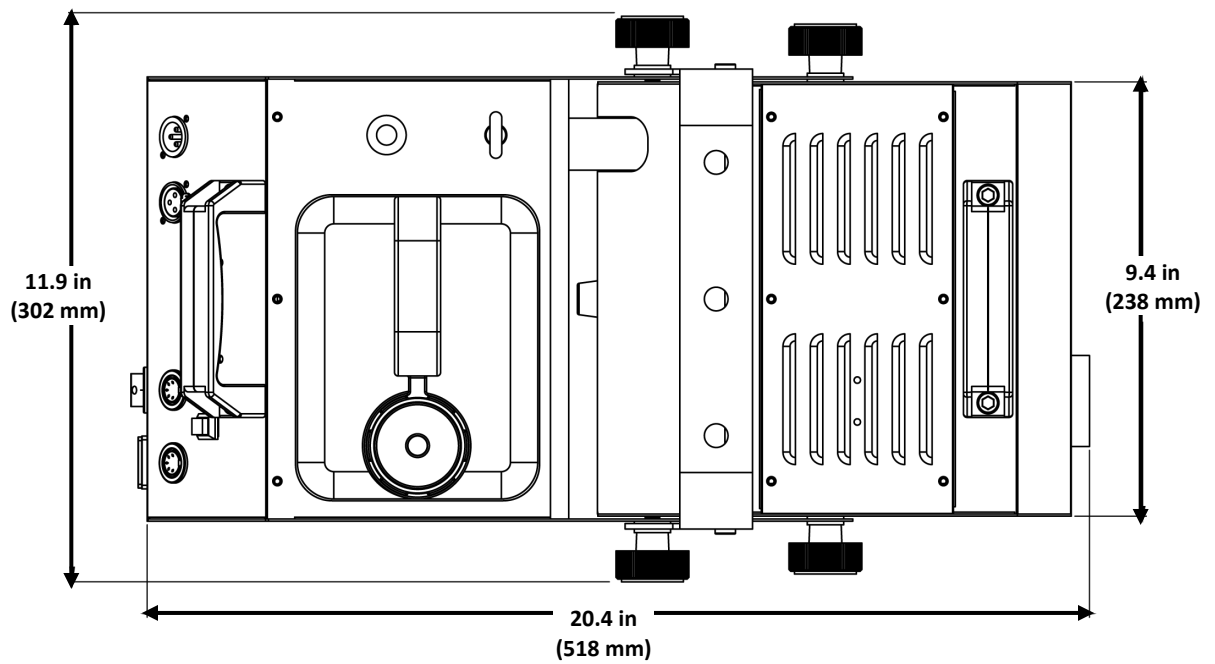
FCQ (Fog Cleaner Quart) was specifically developed by Chauvet to clean your Hurricane 1800 Flex. Make sure you use FCQ regularly, no longer than 90 days between cleanings, to increase the life of your fogger.

2. INTRODUCTION

Overview



Dimensions



3. SETUP

AC Power This Hurricane 1800 Flex has a fixed voltage power supply and it can work with an input voltage 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 (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.

Fuse Replacement

1. Disconnect the product from power.
2. Twist the fuse holder cap counterclockwise to loosen the fuse holder and pull straight out.
3. Remove the blown fuse.
4. Replace with a fuse of the same type and rating.
5. Screw the fuse holder cap back in place and reconnect power.



- **Disconnect the product from power before replacing the fuse.**
- **Always replace a blown fuse with another of the same type and rating.**

Mounting

Before mounting the product, read and follow the safety recommendations indicated in the [Safety Notes](#).

Orientation



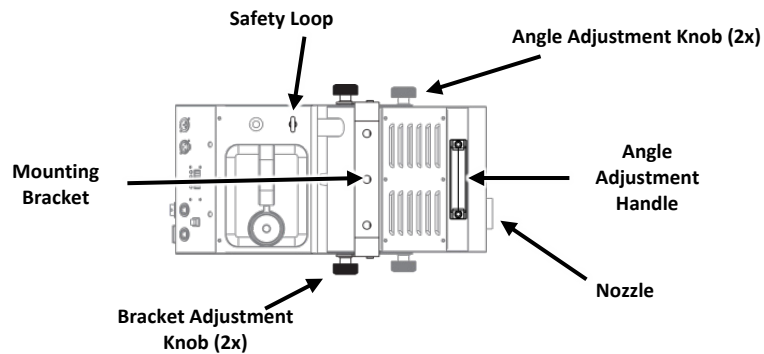
This product may **NOT** be tilted. This product should be level when on a surface or when mounted.



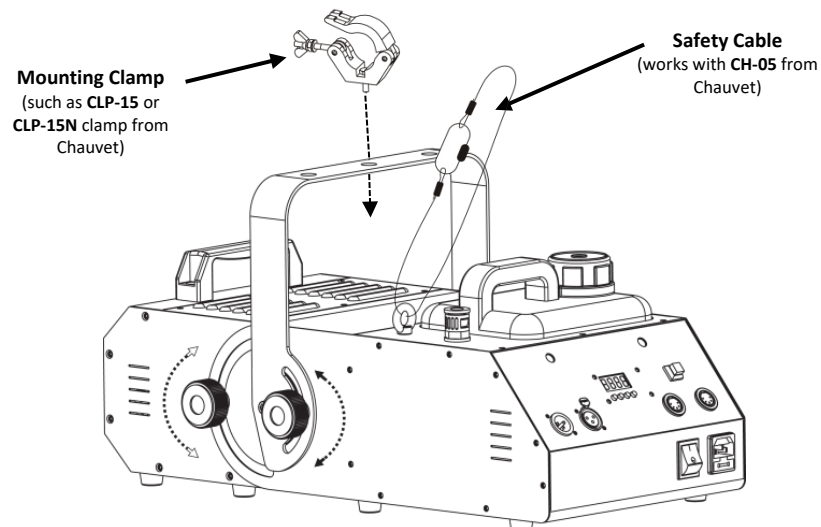
This product must be mounted horizontally, provided there is adequate room for ventilation. The tank of the product should not move from this position. However, the front portion of the fog machine can tilt up and down in the desired direction. Use the adjustment knobs to secure the adjustable front portion.

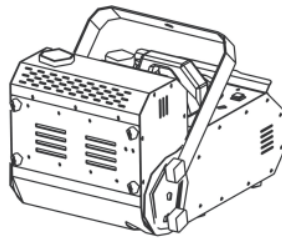
Rigging

- Before deciding on a location, always make sure there is easy access to the product for maintenance and fluid replenishment.
- Make sure that the structure or surface onto which you are mounting the product can support the product's weight (see the [Technical Specifications](#)).
- When mounting the product, **ALWAYS** use a safety cable. Mount the product securely to a rigging point, such as an elevated platform or a truss.
- When rigging the product onto a truss, you should use a mounting clamp of appropriate weight capacity. The bracket has 13-mm holes, which are appropriate for this purpose.
- The rubber feet also serve as floor supports and allow for surface mounting. When mounting the product on the floor, make sure that the product and cables are away from people and vehicles.

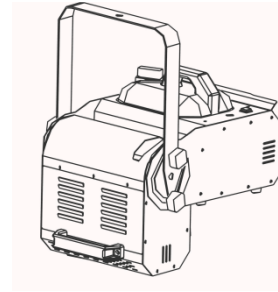


Mounting Diagram





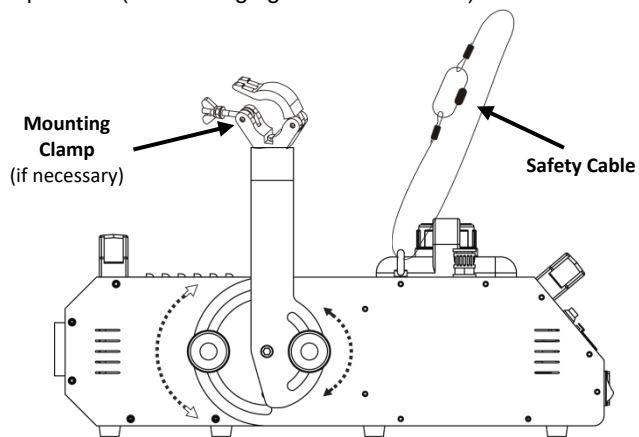
Pointing Up



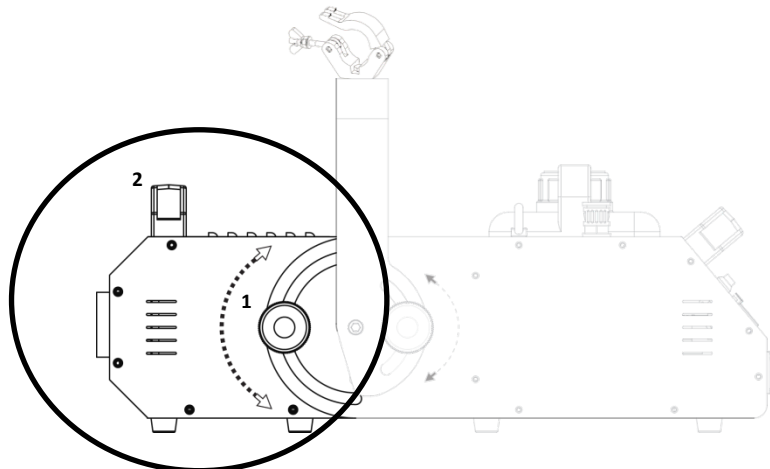
Pointing Down

1. Install the product. (either hanging or surface mount)

Adjust the Tilt



2. Use the bracket adjustment knob (black arrow in above image) to ensure horizontal hanging, if necessary.



3. Loosen the angle adjustment knob¹.
4. Grasp the angle adjustment handle² firmly, and gently tilt the front portion either up or down.
5. Tighten the angle adjustment knob at desired angle.

4. OPERATION

Control Panel Operation

To access the control panel functions, use the four buttons located underneath the display. Please refer to the [Product Overview](#) to see the button locations on the control panel.

Button	Function
<MENU>	Press to exit from the current menu or function
<UP>	Press to scroll up the list of options or to find a higher value
<DOWN>	Press to scroll down the list of options or to find a lower value
<ENTER>	Press to activate a menu option or a selected value

Menu Map

Mode	Programming Steps		Description
DMX Mode	Addr	d 1–d512	Sets DMX starting address
Temperature	Ht	t __	Displays current heater temperature

DMX Linking

The Hurricane 1800 Flex works with a DMX controller. Information about DMX is in the CHAUVET® DMX Primer, which is available from the Chauvet website http://www.chauvetlighting.com/downloads/DMX_Primer_rev05_WO.pdf.

Configuration (DMX)

Set the product in DMX mode to control with a DMX controller.

1. Connect the product to a suitable power outlet, and turn the power switch to on.
2. Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket on the product.

DMX Starting Address

When selecting a starting DMX address, always consider the number of DMX channels the selected DMX mode uses. If you choose a starting address that is too high, you could restrict the access to some of the product's channels.

The Hurricane 1800 Flex uses 1 DMX channel, which defines the highest configurable address as **512**.

If you are not familiar with the DMX protocol, download the DMX Primer from www.chauvetlighting.com.

To select the starting address, do the following:

1. Press <MENU> repeatedly until **Addr** shows on the display.
2. Press <ENTER> and **d 1–d512** will show on the display.
3. Use <UP> or <DOWN> to select the starting address.
4. Press <ENTER>.

DMX Channel Assignments and Values

1-CH	Channel	Function	Value	Percent/Setting
	1	Fog Output	000 ⇄ 005	No function
			006 ⇄ 255	0–100%

Note: Fog output is variable, depending on the status of the heater and environment.

Remote or Manual Operation

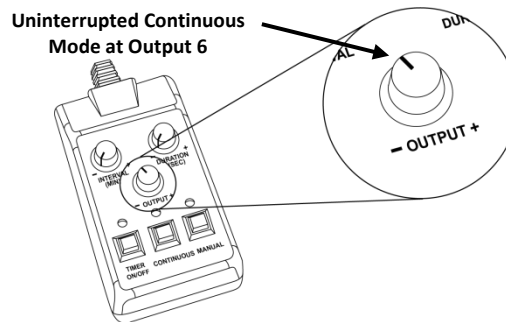
Wired Timer Controller (FC-T) Setup

The Hurricane 1800 Flex can be operated manually, or with the included wired timer controller (FC-T). The Manual button is located on the rear of the unit. See the product [Overview](#). Additionally, the product can be operated with the FC-M manual wired remote or the FC-W wireless remote, available separately.

The FC-T wired timer controller allows you to automatically trigger fog output by setting output, interval time, and duration time. LED indicator lights display the machine and controller's current state. Rotary knobs set interval, output, and duration times, while manual and continuous buttons allow overriding control.

1. Plug in the fog machine to power.
2. Plug in the wired timer controller to the Manual Remote Connector socket on the back of the fog machine. (See the product [Overview](#).)
3. Allow the Hurricane 1800 Flex three to four minutes to heat up before continuing. (See [Fluid Tank Indicator Lights](#).)

FC-T Wired Timer Controller Overview



Wired Timer Controller (FC-T) Operation

Timer Mode

The FC-T wired timer controller has three modes of operation: timer, continuous, and manual.

To trigger the Hurricane 1800 Flex with the timer function, follow the instructions below:

1. Set the desired output level with the **OUTPUT** knob.
2. Set the **INTERVAL** and **DURATION** knobs to the desired positions.
 - The **INTERVAL** knob sets the amount of time in between bursts of fog.
 - The **DURATION** knob sets the length of time that the fog machine will run during the burst.
3. Press the **<TIMER ON/OFF>** latching button. The LED indicator above the button will light up. The timer will now run as set by the **INTERVAL**, **DURATION**, and **OUTPUT** knobs.
4. Press the **<TIMER ON/OFF>** button again to turn off the timer.



The **<MANUAL>** button will override the timer.

Continuous Mode

To trigger the Hurricane 1800 Flex to continuously cycle fog, follow the instructions below:

1. Set the desired output level with the **OUTPUT** knob.
2. Press the **<CONTINUOUS>** latching button. The LED indicator above the button will light up. The fog machine outputs fog until the **<CONTINUOUS>** button is pressed again.
3. Press the **<CONTINUOUS>** button again to stop the fog output.



In order for Continuous mode to run uninterrupted, without the Hurricane 1800 Flex stopping to reheat, set the OUTPUT knob no higher than 6. At Output levels above 6, the fogger will cycle through intermittent bursts of fog during its reheating program.



- The duration of Continuous fog output is based on the capacity of the tank.
- Fluid consumption will be significantly increased during Continuous mode.

Manual Mode

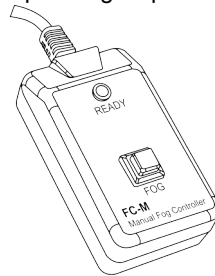
To trigger the Hurricane 1800 Flex manually, do the following:

1. Set the desired output level with the **OUTPUT** knob.
2. Press and hold the **<MANUAL>** button on the wired timer controller. The LED indicator above the button will light up. The fog machine will output fog for as long as you hold down the **<MANUAL>** button.
3. Release the **<MANUAL>** button to stop the fog output.

Optional Wired Manual Remote Control (FC-M)

The optional FC-M wired manual remote control allows the user to start and stop the fog output. It operates the same as the Manual button on the product, with the addition of a **READY** indicator LED.

1. Plug in the fog machine to power.
2. Plug in the wired manual remote control to the Manual Remote Connector socket on the back of the fog machine. (See the product [Overview](#).)
3. Wait for the **READY** indicator LED to light up, indicating the Hurricane 1800 Flex is heated enough to produce fog. (Also see [Fluid Tank Indicator Lights](#).)
4. Press and hold the **<FOG>** button on the wired manual remote control.
5. Release the **<FOG>** button to stop the fog output.



FC-M Manual Remote Control Overview

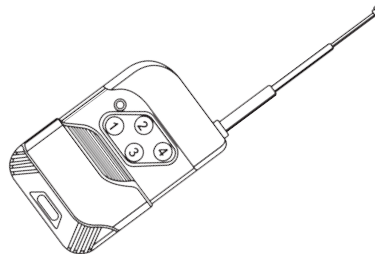


- The Hurricane 1800 Flex unit may start producing fog intermittently to allow for fluid reheating after a period of continuous fog output. This is a normal occurrence.
- The duration of manual fog output is based on the capability of the fog machine.

Optional Wireless Remote (FC-W)

The optional FC-W wireless remote allows the user to trigger the Hurricane 1800 Flex to produce fog from up to 100 ft away.

1. Plug in the fog machine to power.
2. Plug the FC-W wireless remote receiver into the Wireless Remote Connector on the back of the Hurricane 1800 Flex. (See the product [Overview](#).)
3. Allow the Hurricane 1800 Flex three to four minutes to heat up. ([See Fluid Tank Indicator Lights](#).)
4. Press and hold the **<1>**, **<2>**, **<3>**, or **<4>** button on the wireless remote. (Download the FC-W User Manual from www.chauvetlighting.com for more information on addressing the FC-W)
5. Release the button to stop the fog output.



FC-W Wireless Remote Overview



- Ensure the FC-W has an unobstructed view of the receiver for maximum performance.
- The **<2>**, **<3>**, and **<4>** buttons are reserved for future use.

Fluid Tank Indicator Lights

The Hurricane 1800 Flex has indicator LEDs that light up the fluid tank to indicate the status of the product, as follows:

- Red - The heater is currently warming up.
- Flashing Red - The heater is currently warming up and no fluid is detected.
- Blue - The heater is ready to produce fog.
- Flashing Blue - The heater is ready to produce fog and no fluid is detected.

Heater Temperature

To view the current heater temperature, follow the instructions below:

- Press **<MENU>** repeatedly until **Ht** shows on the display.
- Press **<ENTER>** and **t _ _** (the current heater temperature) will show on the display.

5. TECHNICAL INFORMATION

Fogger Maintenance

Do not allow the fogger to become clogged. After every 40 hours of continuous operation, use CHAUVET Fog Cleaner Quart (FCQ) through the system to prevent the accumulation of particulate matter in the heating element.

The recommended cleaning procedure is as follows.

1. Unplug the product from power.
2. Empty all fog fluid from the machine.
3. Add cleaning solution to the tank.
4. Connect the product to power and allow it to warm up.
5. Run the unit in a well-ventilated area until the tank is almost empty. **Do not allow the pump to run dry.**
6. Refill with fogger fluid to continue using the fogger. Run the machine briefly to clear any remaining cleaning solution from the pump and heater.



Do Not operate the machine without fluid at any time.



Fog Cleaner Quart (FCQ) was specifically developed by Chauvet to clean your Hurricane 1800 Flex. Make sure you use FCQ regularly, no longer than 90 days between cleanings, to increase the life of your product.

Storage

Before storing the fogger, run FCQ through the system as described in the cleaning procedure above; however, only follow steps 1 through 5. **Do not refill the tank with fog fluid if storing the fogger.** Cleaning the system prior to storage will help prevent any particles from condensing inside the pump or heater while not in use.



Test-run your Hurricane 1800 Flex on a monthly basis to achieve the best performance.

6. GENERAL TROUBLESHOOTING

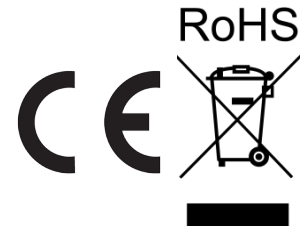
Symptom	Indicator Status	Possible Cause	Possible Action
No output or short output	Red	Heater warming up	Allow the product to warm up completely. This should take less than 10 minutes.
	Red flashing	Air bubble in fluid line	Allow the product to warm up completely.
			Turn fog machine 45° to flatten out the bubble and allow the fog fluid to flow properly
			Turn off the product for 5 seconds, and then turn it back on. Repeat as necessary. After more than 10 attempts, contact Customer Service.
	Blue	Incorrect fluid	Clean thoroughly with CHAUVET® FCQ. For full instructions, see Fogger Maintenance . Refill with CHAUVET water-based fog fluid.
		Blocked pipes	Contact Customer Service
Failing part		Contact Customer Service	
Spitting fluid	Blue blinking	Incorrect fluid	Clean thoroughly with CHAUVET® FCQ. For full instructions, see Fogger Maintenance . Refill with CHAUVET® water-based fog fluid.
		Blocked pipes	Contact Customer Service
		Failing part	Contact Customer Service
	Blue	Incorrect fluid	Clean thoroughly with CHAUVET® FCQ. For full instructions, see Fogger Maintenance . Refill with CHAUVET water-based fog fluid.
		Blocked pipes	Contact Customer Service
		Failing part	Contact Customer Service
Normal	Blue	Normal	Normal function
Circuit breaker or fuse keeps blowing	N/A	Excessive load on the circuit	Make sure that the total load does not exceed the recommended capacity of the breaker or fuse's nominal current
Product does not power up		Short circuit along the power lines	Check the power lines and power cords
		No energy on power outlet	Check power outlet Change to another outlet
		Loose or damaged power cord	Check the power cord
		Blown fuse	Replace blown fuse with a good one of the same type and rating
		Internal problem	Contact Customer Service and send product for repair
Product does not respond to DMX	Blue	Wrong starting address on the product	Set the correct starting address on the product
		Wrong polarity setting on the DMX controller	Change the signal polarity on the controller
		Loose or damaged DMX cable	Check the DMX cable entering the faulty unit
		Internal problem	Contact customer service and send product for repair
Intermittent DMX Problems		Signal cables are not DMX compatible	Replace non-DMX cables with true DMX cables
		Interference with AC or radio signals	Keep DMX cables away from AC wires or radio equipment
		DMX cable too long	Use a shorter DMX cable or install an optically coupled DMX amplifier right before the product with intermittent problems
		Terminator not connected	Install a terminator
False Sensor Reading (Priming)	Red	Air bubbles in fluid line	Fill the tank. While the unit is operating; remove but do not disconnect the fluid tank and tilt the machine at a 45° angle.
			Fill the tank. While the unit is operating, pinch the fluid line between your thumb and forefinger, and hold for 3 to 5 seconds creating a vacuum in the system. Release the pinched portion and allow the fluid to flow naturally.
			Fill the tank. Allow the unit to reach the normal operating temperature and for the blue indicator to light. Set the output to the highest level. Power cycle the unit 1-2 times until the fluid reaches the sensor. The blue tank indicator light stops flashing.
	Red	Empty fluid tank	Refill tank with the correct CHAUVET® water-based fog fluid



If you still experience problems after trying the solutions presented here, contact Chauvet Technical Support.

7. TECHNICAL SPECIFICATIONS

Dimensions and Weight	Length	Width	Height	Weight
	20.4 in (518 mm)	11.9 in (302 mm)	10.8 in (274 mm)	19.6 lb (9 kg)
Note: Dimensions in inches rounded to the nearest decimal digit.				
Power	Power Supply Type		Range	Voltage Selection
	Model-specific		120 VAC, 60 Hz or 230 VAC, 50 Hz	Fixed
	Parameter		120 V, 60 Hz	230 V, 50 Hz
	Consumption		1,560 W	1,560 W
	Operating current		12.9 A	6.8 A
	Fuse		F 15 A, 250 V	F 10 A, 250 V
	Power I/O		US/Worldwide	UK/Europe
	Power input connector		Hard-wired	Hard-wired
	Power Cord plug		Edison (US)	Local plug
Operation	Heat-up Time	Tank Capacity	Fluid Consumption	
	3 min	1 gal (3.8 l)	80 ml/min	
Fog Output	Output	Approved Fluids	Optional Controllers	
	25,000 cfm	FJU, HDF	FCW, FCM	
Thermal	Maximum External Temp.		Cooling System	
	104 °F (40 °C)		Convection	
Ordering	Product Name		Item Code	UPC Number
	Hurricane 1800 Flex (120 V)		09071177	781462218591
	Hurricane 1800 Flex (230 V)		09071180	781462215286



RETURNS

In case you need to get support or return a product:

- If you are located in the U.S., contact Chauvet World Headquarters.
- If you are located in the UK or Ireland, contact Chauvet Europe Ltd.
- If you are located in Benelux, contact Chauvet Europe BVBA.
- If you are located in France, contact Chauvet France.
- If you are located in Germany, contact Chauvet Germany.
- If you are located in Mexico, contact Chauvet Mexico.
- If you are located in any other country, DO NOT contact Chauvet. Instead, contact your local distributor. See www.chauvetlighting.com for distributors outside the U.S., UK, Ireland, Benelux, France, Germany, or Mexico.



If you are located outside the U.S., UK, Ireland, Benelux, France, Germany, or Mexico, contact your distributor of record and follow their instructions on how to return Chauvet products to them. Visit our website www.chauvetlighting.com for contact details.

Call the corresponding Chauvet Technical Support office and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

Send the merchandise prepaid, in its original box, and with its original packing and accessories. Chauvet will not issue call tags.

Clearly label the package with the RMA number. Chauvet will refuse any product returned without an RMA number.



Write the RMA number on a properly affixed label. DO NOT write the RMA number directly on the box.

Before sending the product, clearly write the following information on a piece of paper and place it inside the box:

- Your name
- Your address
- Your phone number
- RMA number
- A brief description of the problem

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be your responsibility. FedEx packing or double-boxing are recommended.



Chauvet reserves the right to use its own discretion to repair or replace returned product(s).

CONTACT Us

General Information	Technical Support
Chauvet World Headquarters	
Address: 5200 NW 108th Avenue Sunrise, FL 33351 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll free: (800) 762-1084	Voice: (844) 393-7575 Fax: (954) 756-8015 Email: chauvetcs@chauvetlighting.com Website www.chauvetdj.com
Chauvet Europe Ltd	
Address: Unit 1C Brookhill Road Industrial Estate Pinxton, Nottingham, UK NG16 6NT Voice: +44 (0)1773 511115 Fax: +44 (0)1773 511110	Email: UKtech@chauvetlighting.eu Website: www.chauvetdj.eu
Chauvet Europe BVBA	
Address: Stokstraat 18 9770 Kruishoutem Belgium Voice: +32 9 388 93 97	Email: BNLtech@chauvetlighting.eu Website: www.chauvetdj.eu
Chauvet France	
Address: 3, Rue Ampère 91380 Chilly-Mazarin France Voice: +33 1 78 85 33 59	Email: FRtech@chauvetlighting.fr Website: www.chauvetdj.eu
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Address: Bruno-Bürgel-Str. 11 28759 Bremen Germany Voice: +49 421 62 60 20	Email: DEtech@chauvetlighting.de Website: www.chauvetdj.eu
Chauvet Mexico	
Address: Av. de las Partidas 34-3B (Entrance by Calle 2) Zona Industrial Lerma Lerma, Mexico C.P. 52000 Voice: +52 (728) 690-2010	Email: servicio@chauvet.com.mx Website: www.chauvetdj.mx
Outside the U.S., U.K., Ireland, Benelux, France, Germany, or Mexico, contact the dealer of record. Follow the instructions to request support or to return a product. Visit our website for contact details	