



LED-Fogger 500 CO2
RGB

fog machine

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23.04.2019, ID: 455672

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1 General information

This user manual contains important information on the safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to another user, be sure that they also receive this manual.

Our products and user manuals are subject to a process of continuous development. We therefore reserve the right to make changes without notice. Please refer to the latest version of the user manual which is ready for download under www.thomann.de.

1.1 Further information

On our website (www.thomann.de) you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – high-voltage.

Warning signs	Type of danger
	Warning – flammable substances.
	Warning – hot surface.
	Warning – dangerous optical radiation.
	Warning - slip hazard.
	Warning – harmful or irritating substances.

Warning signs	Type of danger
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended for generating artificial fog by evaporating the fog fluid with which it is filled, with an additional electronic lighting effect by means of LED technology. The device is designed for professional use and is not suitable for use in households. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Extend the life of the device by regular breaks in operation and avoid switching it on and off frequently. This device is not suitable for continuous use.

Safety



DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.



DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.

Do not use the device if covers, protectors or optical components are missing or damaged.



DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



WARNING!

Risk of burns from flammable liquids

The use of flammable liquids in this device may cause severe burns and damage to property.

Always use approved fog fluids. Never fill flammable liquids into the tank of the device.



WARNING!

Risk of burns

The generated fog at the fog nozzle is hot and can cause burns. Occasionally hot fluid drops may escape from the nozzle.

The distance of persons and objects to the fog nozzle must be at least fifty centimetre (1.6 feet).

Do not touch the fog nozzle during and shortly after operation. It becomes very hot and may cause burns even several hours after switching off the device.



WARNING!

Risk of slipping caused by condensate

Fog machines can produce condensate. Do not direct the fog to floors. Floors and surfaces can become slippery by condensed fog.

Check regularly that all floors can be accessed without slipping hazard and remove any condensate, if necessary.



WARNING!

Health hazard caused by fog fluid handling

Fog fluid does contain glycols complying with the regulations for foodstuffs. However, it may be harmful if swallowed.

Do not induce vomiting. Seek medical advice immediately. Keep fog fluid in a safe place. If the fog fluid comes into contact with eyes rinse thoroughly with water.



WARNING!

Eye damage caused by high light intensity

Never look directly into the light source.



WARNING!

Risk of epileptic shock

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.



CAUTION!

Possible respiratory problems

The device can be operated safely only with the approved fog fluid. The use of other fluids can release toxic gases. Claims for damages caused by the use of non-approved fluids shall be excluded.

Do not create fog in closed or poorly ventilated areas.

Do not expose persons with health problems (such as allergic respiratory conditions, asthma) to artificial fog.



NOTICE!

Risk of fire

Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.

**NOTICE!****Risk of fire due to incorrect polarity**

Incorrectly inserted batteries may destroy the device or the batteries.

Ensure that proper polarity is observed when inserting batteries.

**NOTICE!****Possible damage by leaking batteries**

Leaking batteries can cause permanent damage to the device.

Take batteries out of the device if it is not going to be used for a longer period.

**NOTICE!****Operating conditions**

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.

Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures).

Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.



NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

General information about how to safely operate fog machines and hazers

The device was designed for use in professional event technology and works reliably when used properly. Observe the following information:

- Follow all warnings in these operating instructions.
- Never leave the device running without supervision.
- The device is not suitable for use in private households or as a child's toy.
- Place the device on a stable, fire-proof basis that is at least twice as large as the device.
- Maintain a safety distance of 1 m to flammable materials.
- The device is not intended for suspended assembly (the so-called "flying operation").

- During operation, ensure that the visibility in the room does not fall below 2 m so that everyone in the room can still orient themselves safely.
- The haze or mist generated by the device may trigger smoke alarms.



NOTICE!

Possible damage due to installation of a wrong fuse

The use of different types of fuses can cause serious damage to the unit. Fire hazard!

Only fuses of the same type may be used.

3 Features

This vertical fog machine with LED effect ring is suitable for use in clubs, bars, night clubs and on stages. The built-in LEDs are mounted around the fog outlet and enlighten the fog column in bold colours.

Special features of the device:

- Vertical fog column of approx. 3 m height
- Coloured fog effects by built-in RGB LEDs
- Manual control via wired remote control with direct control of 8 colour combinations
- Flash button on the device for switchable strobe effect
- Suitable fog fluids: Fast fog for CO₂ effect (item no. 209054), E-M fluid (item no. 121307), E fluid (item no. 105454)



Unsuitable fluids can damage the device. Only use the device with original Stairville fluids.

For technological reasons, the light output of LEDs decreases over their lifetime. This effect increases with higher operating temperature. You can extend the service life of the illuminants by providing adequate ventilation and operating the LEDs with the lowest possible brightness.

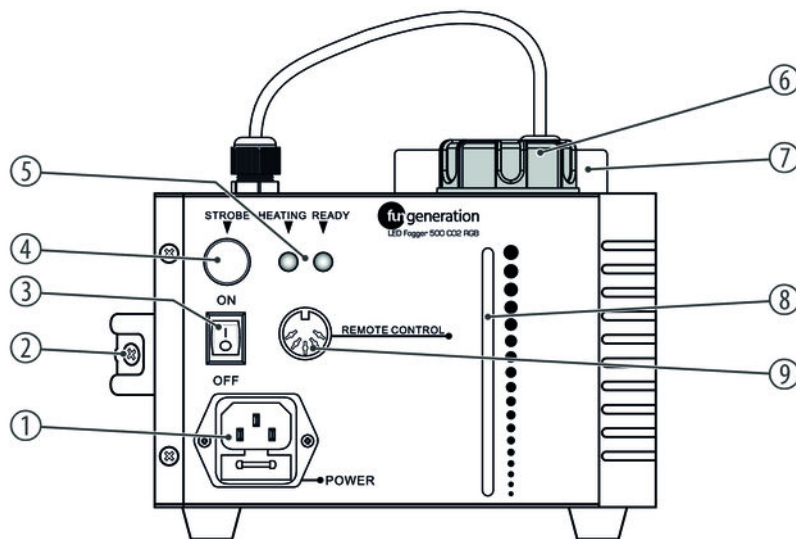
4 Installation

Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the product against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

The device is designed for horizontal or vertical installation on the floor or even surfaces. Place the unit on a flat and stable, non-combustible surface. The device requires 50 cm clearance at the sides and above.

5 Connections and controls

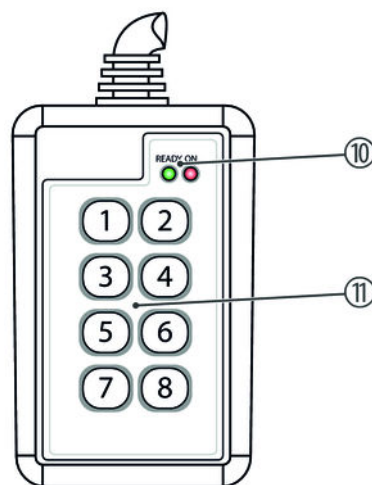
Rear panel



LED-Fogger 500 CO2 RGB

1	<i>[POWER]</i> IEC chassis plug for power supply with fuse holder
2	Carrying handle
3	<i>[ON OFF]</i> Main switch. Turns the device on and off.
4	<i>[STROBE]</i> Turns the Stroboscope effect on and off.
5	<i>[HEATING] [READY]</i> Indicator LED for heating up and operating status
6	Fog fluid container with screw-cap
7	LED effect ring and fog nozzle for fog output
8	Liquid level indicator.
9	<i>[REMOTE CONTROL]</i> Connection for the wired remote control

Wired remote control



LED-Fogger 500 CO2 RGB

10	<i>[READY]</i> <i>[ON]</i> Indicator LEDs. <i>[READY]</i> is lit: The device is fully heated and ready for use. <i>[ON]</i> is lit: The trigger button on the remote is activated.			
11	<i>[1]</i> ... <i>[8]</i> Activates a colour combination and simultaneously triggers a fog output.			
	<i>[1]</i>	Red	<i>[5]</i>	Purple
	<i>[2]</i>	Green	<i>[6]</i>	Cobalt blue
	<i>[3]</i>	Blue	<i>[7]</i>	White
	<i>[4]</i>	Yellow	<i>[8]</i>	Colours 1 ... 7, automatic colour sequence

6 Operating

Filling the unit

**NOTICE!****Possible damages caused by unsuitable fog fluid**

Fog liquids not approved by the manufacturer may permanently damage the unit.

Only use the fog fluids listed on www.thomann.de and follow their instructions for use.

First, make sure the unit is disconnected from the mains.

Open the screw-cap of the liquid container and fill in the fog fluid. Make sure that no fog fluid is spilled or gets into the device. The easiest way is using a funnel. The container capacity is 800 ml.

Screw the cap firmly back on.

Turning the unit on



NOTICE!

Fire hazard

Do not operate the machine unattended.

Connect the device to the mains power grid and turn it on with the main switch. During the heat-up time of about 3 minutes the indicator LED lights up *[HEATING]*. Once the indicator LED *[HEATING]* goes out and the indicator LED *[READY]* lights up, the device is ready for use.

Operation

Operation with an empty fluid container can lead to overheating and permanent damage of the pump. When operating, always ensure that there is sufficient fog fluid in the liquid container to avoid no-load running.

Triggering fog blast and LED effect

Connect the remote control to the connector socket *[REMOTE CONTROL]* on the operating panel of the device. Press the button for the desired colour of the LED effect ring to trigger a fog blast in conjunction with the desired colour. The output duration is approx. 6 s. To stop fog output earlier, press any button on the remote control.

- Switching on stroboscopic effect** Press *[STROBE]* on the rear panel of the unit. The strobe effect on the LED effect ring is now switched on. To deactivate the strobe effect, press again *[STROBE]* on the rear panel of the unit.
- Turning the unit off** Turn off the power using the main switch. Transport the device only when it is completely cooled down. To avoid leaking fog fluid during transport, you should transport the device only with empty fluid container.

7 Technical specifications

Heater power	550 W	
Warm-up time	approx. 3 min	
Fluid container capacity	800 ml	
Fluid consumption	40 ml/min	
For burst duration, max.	approx. 6 s	
Charging time between fog bursts	approx. 40 s	
Fog burst reach	3 m	
Input connections	Voltage supply	IEC chassis plug C14
Output connections	Wired remote control	DIN panel socket, 5-pin
Light source	3 × 3in1 RGB LED, 9 W	
Power consumption	560 W	

Operating supply voltage	230 V ~ 50 Hz	
Fuse	5 mm × 20 mm, 5 A, 250 V, fast-acting	
Protection class	IP20	
Dimensions (W × H × D)	290 mm × 250 mm × 150 mm	
Weight	3.3 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	50 %, non-condensing

Further information

DMX control	No
Blast direction	Vertical
Timer remote control included	No
On / off remote control included	Yes
Radio remote control included	No
Light effect included	Yes
Hanging bracket	No

8 Troubleshooting

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

Symptom	Remedy
The unit does not work, no fog blast	1. Check the mains connection and main fuse.
	2. Check that the fog fluid and / or water tank is sufficiently filled.
	3. Check the hose connections of the fog fluid and the water tank.
No response to the wired remote control	Check if the remote control is connected correctly.

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at www.thomann.de.

9 Cleaning



NOTICE!

Possible damages caused by unsuitable cleaning agents

Cleaners not approved by the manufacturer may permanently damage the unit.

Only use the fog machine cleaners listed on www.thomann.de and follow their instructions for use.

Clean the appliance after every 30 operating hours, or if it was not in use for a longer period of time.

Procedure

1. ➤ Make sure that the device is turned off, disconnected from the mains and completely cooled down.
2. ➤ Position the unit in a well ventilated place.
3. ➤ Insert the suction hose of the fog machine into the bottle with the fog machine cleaner.
4. ➤ Connect the device to the mains power grid and turn it on with the main switch.
5. ➤ Wait until the unit has reached the required operating temperature.

6. ➤ Change to continuous operation and let the device produce fog for about 20 seconds.
 7. ➤ Insert the suction hose of the fog machine back into the fog fluid container and let the device again produce fog for about 20 seconds. This will rinse the lines.
- ⇒ The cleaning is completed.

Fan grids

The fan grids of the device must be cleaned of any contamination, such as dust, etc. on a regular basis. Before cleaning, switch off the device and disconnect mains-operated devices from the mains. Only use pH-neutral, solvent-free and non-abrasive cleaning agents. Clean the unit with a slightly damp lint-free cloth.

10 Protecting the environment

Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.



