

User Manual



AF-40 / AF-40 LED

Fog Machine

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1 General information






This document contains important instructions for the safe operation of the product. Read and follow the safety instructions and all other instructions. Keep the document for future reference. Make sure that it is available to all those using the product. If you sell the product to another user, be sure that they also receive this document.

Our products and documentation are subject to a process of continuous development. They are therefore subject to change. Please refer to the latest version of the documentation, which is ready for download under www.thomann.de.

1.1 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 document.

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 – flammable substances.

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

2 Safety instructions

Intended use

This device is intended to be used to produce artificial fog by vaporising fog fluid. 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.

Safety



DANGER!

Risk of injury and choking hazard for children!

Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such knobs) that children could play with.



DANGER!

Danger to life due to electric current!

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 when covers, safety equipment or optical components are missing or damaged.

**DANGER!****Danger to life due to electric current!**

A short circuit could lead to a fire hazard and risk of death. Do not modify the mains cable or the plug! In case of isolation damage, disconnect immediately the power supply and arrange repair. If in doubt, seek advice from a qualified electrician.

**WARNING!****Risk of burns from flammable liquids!**

The use of flammable liquids in the device may cause severe burns and damage to property. Use only approved fog fluids. Never fill flammable liquids into the tank of the device.

**WARNING!****Risk of burns on the hot fog nozzle!**

The fog generated on the fog nozzle is hot. Occasionally hot fluid drops may escape from the nozzle. The fog nozzle may be hot for several hours after switching off the device. Skin contact with hot fog and drops of hot liquid can lead to burns. Ensure a minimum distance of 50 cm to persons and objects during operation. Do not touch the fog nozzle during and immediately after operation. Before touching the device, always ensure that all surfaces have cooled down sufficiently.

**WARNING!****Slip hazard due to condensate pools!**

The fog generated by the fog machine can condense on floors and surfaces. People can slip and injure themselves on pools of condensate. Do not direct the fog to floors or other surfaces that may be stepped on. Regularly check all floors and other surfaces that can be accessed for slipping hazards. If necessary, remove any pools of condensate.

**WARNING!****Health hazard when handling fog fluid!**

Fog fluid contains glycols. There is a health risk in case of eye contact and if fluid is swallowed. Keep fog fluid in a safe place and out of the reach of children. Never ingest fog fluid and avoid contact with eyes. In case of accidental ingestion or eye contact with fog fluid: Do not induce vomiting if swallowed. Thoroughly rinse the eyes with water upon contact. Get immediate medical attention.



WARNING!

Risk of eye damage caused by high light intensity!

The device generates highly intense light radiation. Looking directly into the light source can damage the eyes. Never look directly into the light source.



WARNING!

Risk of epileptic fit due to flashing lights!

The device emits flashing lights (strobe effects). Flashing lights can trigger epileptic fits in specific people. If you are at risk of epilepsy, avoid spending longer periods of time subjected to flashing lights and looking into strobing light.



CAUTION!

Possible respiratory problems due to fog fluid!

Fog fluid can lead to respiratory problems in case of prolonged exposure and in certain people. Using unsuitable fluids can generate toxic gases. Do not use any fog fluids other than the ones approved for the device. Any claims for compensation for damages caused by using non-approved fluids are excluded. Do not let the device produce fog in poorly ventilated areas. Do not expose people with health problems (e.g. allergy-related respiratory symptoms, asthma) to artificial fog.



NOTICE!

Risk of fire due to covered vents and neighbouring heat sources!

If the vents of the device are covered or the device is operated in the immediate vicinity of other heat sources, the device can over-heat and burst into flames. Never cover the device or the vents. Do not install the device in the immediate vicinity of other heat sources. Never operate the device in the immediate vicinity of naked flames.

**NOTICE!****Damage to the device if operated in unsuitable ambient conditions!**

The device can be damaged if it is operated in unsuitable ambient conditions. Only operate the device indoors within the ambient conditions specified in the “Technical specifications” chapter of this user manual. Avoid operating it in environments with direct sunlight, heavy dirt and strong vibrations. Avoid operating it in environments with strong temperature fluctuations. If temperature fluctuations cannot be avoided (for example after transport in low outside temperatures), do not switch on the device immediately. Never subject the device to liquids or moisture. Never move the device to another location while it is in operation. In environments with increased dirt levels (for example due to dust, smoke, nicotine or mist): Have the device cleaned by qualified specialists at regular intervals to prevent damage due to overheating and other malfunctions.

**NOTICE!****Damage to the device due to high voltages!**

The device can be damaged if it is operated with the incorrect voltage or if high voltage peaks occur. In the worst case, excess voltages can also cause a risk of injury and fires. Make sure that the voltage specification on the device matches the local power grid before plugging in the device. Only operate the device from professionally installed mains sockets that are protected by a residual current circuit breaker (FI). As a precaution, disconnect the device from the power grid when storms are approaching or if the device will not be used for a longer period.

**NOTICE!****Possible staining due to plasticiser in rubber feet!**

The plasticiser contained in the rubber feet of this product may react with the coating of the floor and cause permanent dark stains after some time. If necessary, use a suitable mat or felt slide to prevent direct contact between the device's rubber feet and the floor.

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 fog or haze generated by the device may trigger smoke alarms.

3 Features

AF-40

This fog machine is suitable for use in clubs, bars, discotheques and on stages.

Special features of the device:

- Remote control included
- Suitable for mobile use due to compact design

AF-40 LED

This fog machine with LED lighting is suitable for use in clubs, bars, night clubs and on stages.

Special features of the device:

- LED lighting for bright orange-red colour effects
- Remote control included
- Suitable for mobile use due to compact design

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.

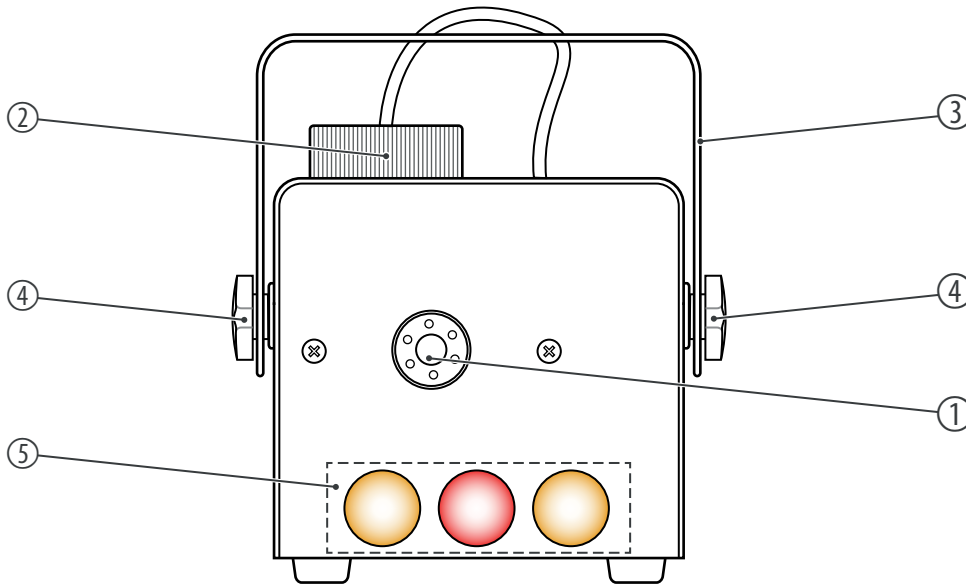
4 Installation

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.

Place the device on a stable, fireproof surface at least twice the size of the device. The device requires a 20 cm clearance on the sides and above. The device should be installed horizontally, with a maximum deviation of 15°.

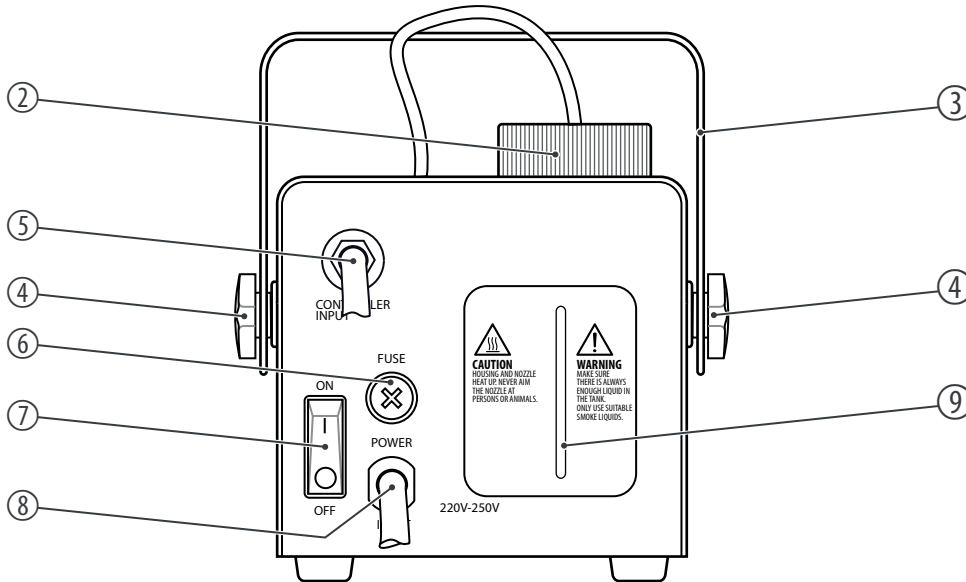
5 Connections and controls

Front panel

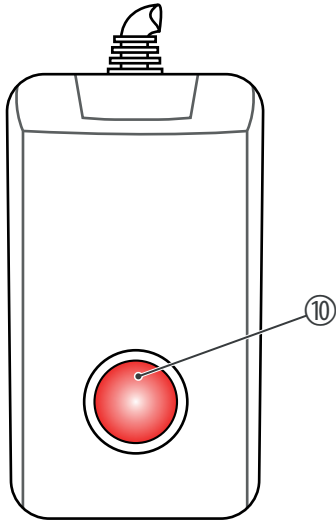


	AF-40	AF-40 LED
1	Fog nozzle	Fog nozzle
2	Fog fluid container with screw-cap	Fog fluid container with screw-cap
3	Carrying handle and bracket	Carrying handle and bracket
4	Screws for adjusting the bracket	Screws for adjusting the bracket
5	– not available for this version –	3 × 1 W LEDs (2 × amber, 1 × red)

Rear panel



	AF-40	AF-40 LED
2	Fog fluid container with screw-cap	Fog fluid container with screw-cap
3	Carrying handle and bracket	Carrying handle and bracket
4	Screws for adjusting the bracket	Screws for adjusting the bracket
5	<i>[CONTROLLER INPUT]</i> Remote control cable	<i>[CONTROLLER INPUT]</i> Remote control cable
6	<i>[FUSE]</i> Fuse holder	<i>[FUSE]</i> Fuse holder
7	<i>[ON/OFF]</i> Main switch. Turns the device on and off.	<i>[ON/OFF]</i> Main switch. Turns the device on and off.
8	<i>[POWER]</i> Mains cable for power supply	<i>[POWER]</i> Mains cable for power supply
9	Fill level indicator	Fill level indicator

Remote control

	AF-40	AF-40 LED
10	Press this button to emit fog. The built-in indicator light shows that the device has reached the operating temperature necessary to produce fog.	Press this button to emit fog while activating the LED effect. The built-in indicator light shows that the device has reached the operating temperature necessary to produce fog.

6 Operating

Filling the device



NOTICE!

Damage to the device due to the use of unsuitable fog fluids!

Fog fluids 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 that the device is disconnected from the mains.

Open the screw cap of the fluid container and fill in the fog fluid. Make sure that no fog fluid is spilled or gets into the device. The easiest way to do so is to use a funnel. The container capacity is 0.25 litres.

Screw the cap firmly back on.

Switching on the device



NOTICE!

Risk of undetected fires in the absence of supervision!

There is a general risk of fire when operating the device. If the appliance is left unattended, fires can go undetected and cause great damage.

Never operate the device unattended.

Connect the device to the mains power grid and turn on the main switch. The device heats up.

As soon as the required operating temperature is reached, the indicator light on the remote lights up. The device is now operational.

Operating AF-40

Press the red button on the remote control to trigger a fog blast.

Operation with an empty fluid container can lead to overheating and permanently damage the pump. When operating the device, always ensure that there is sufficient fog fluid in the fluid container to avoid running it without fluid.

Operating AF-40 LED

Press the red button on the remote control to trigger a fog blast.

The 3 coloured LEDs light up while fog is emitted.

Operation with an empty fluid container can lead to overheating and permanently damage the pump. When operating the device, always ensure that there is sufficient fog fluid in the fluid container to avoid running it without fluid.

Decommissioning the device

Disconnect the device from the mains. Do not transport the device before it has cooled down completely. To avoid leaking fog fluid during transport, you should transport the device only with an empty fluid container.

7 Technical specifications

	AF-40	AF-40 LED
Heater power	400 W	400 W
Warm-up time	approx. 5 min	approx. 5 min
Fluid container capacity	0.25 l	0.25 l
Fluid consumption	approx. 13 ml/min	approx. 16 ml/min
Fog blast duration, max.	30 s	30 s
Fog blast capacity	approx. 85 m ³ /min	approx. 70 m ³ /min
Fog blast reach	approx. 2 m	approx. 2 m
Charging time between fog blasts	approx. 60 s	approx. 60 s
Light source	–	2 × LEDs, amber, 1 × LED, red, each 1 W
Power consumption	400 W	370 W
Supply voltage	230 V ~ 50 Hz	230 V ~ 50 Hz
Fuse	5 mm × 20 mm, 3.15 A, 250 V, fast blow	5 mm × 20 mm, 3.15 A, 250 V, fast blow
International Protection Rating	IP20	IP20
Dimensions (W × H × D)	280 mm × 190 mm × 150 mm	260 mm × 135 mm × 140 mm

Technical specifications

Weight	2.1 kg	2.2 kg
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

Further information

	AF-40	AF-40 LED
Recommended fluids	Stairville Fast Fog Fluid (item no. 209054)	Stairville Fast Fog Fluid (item no. 209054)
	Stairville E-M Fluid (item no. 121307)	Stairville E-M Fluid (item no. 121307)
	Stairville E Fluid (item no. 105454)	Stairville E Fluid (item no. 105454)
	Stairville E-C Fluid (item no. 105455)	Stairville E-C Fluid (item no. 105455)
	Stairville E-HD Fluid (item no. 105456)	Stairville E-HD Fluid (item no. 105456)
DMX control	no	no
Timer remote control included	no	no
Radio remote control included	no	no
Battery operation	no	no
With suspension bracket	yes	yes
Blast direction	Horizontal	Horizontal
On/Off remote control included	yes	yes
Light effect included	no	yes

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	Check the mains connection and the main fuse.
The unit does not eject any fog	1. Check the fluid level in the fog fluid container. 2. Switch the device off and check the hose that leads into the fluid container for unobstructed flow.

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. ➤ Place the unit in a well ventilated place.
3. ➤ Take the suction hose out of the fluid container of the fog machine and put it into the bottle with the cleaning fluid.
4. ➤ Connect the device to the mains.
5. ➤ Wait until the required operating temperature is reached.
6. ➤ Keep the remote control button pressed and release fog for about 20 seconds.
7. ➤ Put the suction hose back into the fluid container of the fog machine and release fog for another 20 seconds. This rinses the pipes.
 - ⇒ The cleaning is completed.

10 Protecting the environment

Disposal of the packing material



Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

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



Observe the disposal note regarding documentation in France.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended.

Do not dispose of your old device with your normal household waste; instead, deliver it for controlled disposal by an approved waste disposal firm or through your local waste facility. When disposing of the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste management facility. Proper disposal protects the environment as well as the health of your fellow human beings.

Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal.

You can return your old device to Thomann GmbH at no charge. Check the current conditions on www.thomann.de.

If your old device contains personal data, delete those data before disposing of it.

