




STAIRVILLE

WGF-2000 Water
Ground Fog 2000
fog machine

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1 General notes

This manual contains important instructions for the safe operation of the unit. Read and follow the safety instructions and all other instructions. Keep the manual for future reference. Make sure that it is available to all those using the device. If you sell the unit please make sure that the buyer also receives this manual.

Our products are subject to a process of continuous development. Thus, they are subject to change.

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.


Displays





Texts and values displayed on the device are marked by quotation marks and italics.

Examples: *'24ch'*, *'OFF'*.

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 – harmful or irritating substances.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended for generating artificial fog by evaporation the poured-in fog fluid together with water. 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!

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!

Danger of slipping from condensed water

Dripping condensation may cause the area around the device to be slippery.

Check regularly that all floors can be accessed without slipping and remove the condensed water, 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.



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!

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.



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.



NOTICE!

Possible staining

The plasticiser contained in the rubber feet of this product may possibly react with the coating of your parquet, linoleum, laminate or PVC floor and after some time cause permanent dark stains.

In case of doubt, do not put the rubber feet directly on the floor, but use felt-pad floor protectors or a carpet.

3 Features

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

Special features of the device:

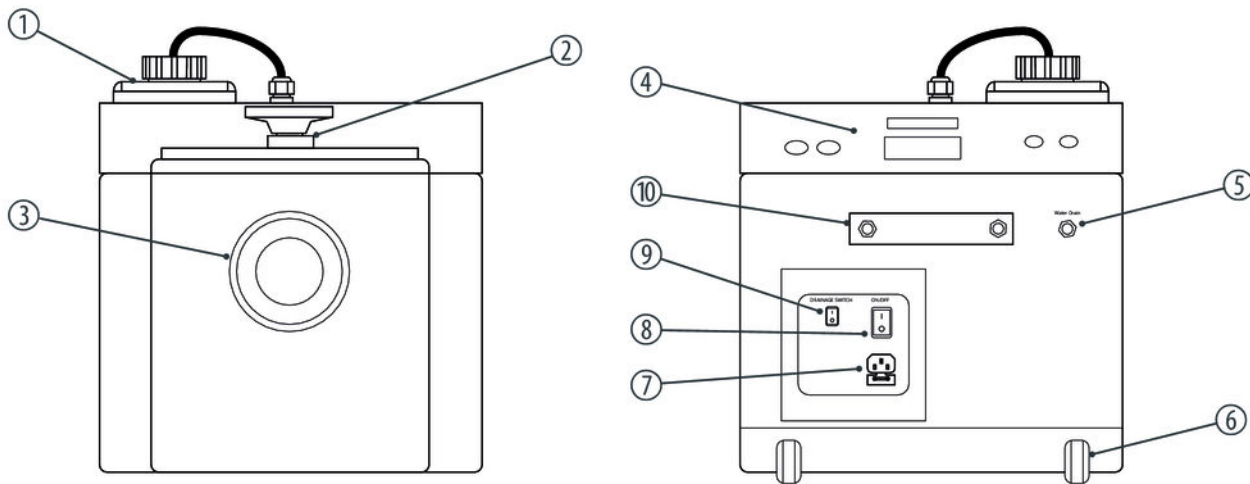
- Water based floor fog machine
- Control via DMX (three channels) as well as via buttons and display on the unit
- Operation with water and fog fluid
- Fog fluid tank capacity: 1.2 litre
- Water tank capacity: 8 litre
- Fog volume and blower power adjustable
- Up to one hour continuous output

4 Installation

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device 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 unit on a flat, non-flammable, solid surface in a well ventilated area.

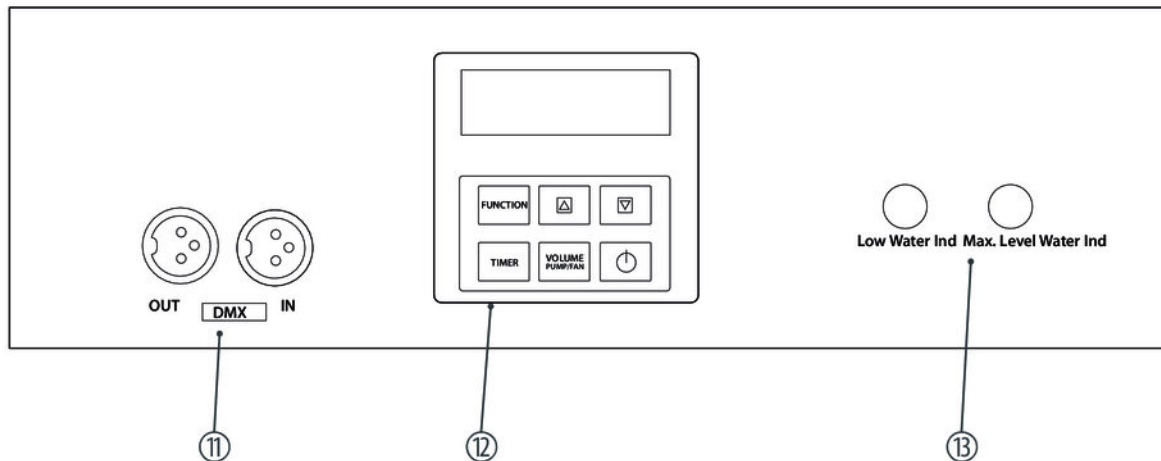
5 Connections and controls



WGF-2000 Water Ground Fog 2000

1	Fluid tank (lateral level indicator)
2	Water tank
3	Fog nozzle
4	Control panel
5	<i>[Water Drain]</i> Valve for the complete emptying of the device, for example before transport.
6	Transport casters
7	IEC chassis plug with fuse holder for the power supply. Should the fuse have blown, disconnect the unit from the power supply and replace the fuse with a new fuse of the same type.
8	<i>[ON/OFF]</i> Main switch to turn the device on and off.
9	<i>[DRAINAGE SWITCH]</i> On / off switch for the water pump.
10	Carrying handle

Control panel



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- 11 *[DMX IN]*
DMX input to control the device via DMX.
- [DMX OUT]*
DMX output for connecting additional DMX units in a DMX universe.

- 12 LCD and function buttons.
- [FUNCTION]*
Button to select the operating mode and the various setting parameters.
- ▲
Increases the displayed value by one and selects menu items.
- ▼
Decreases the displayed value by one and selects menu items.
- [TIMER]*
Button for time-controlled fog blast triggering with the previously made settings.

	<p><i>[VOLUME - PUMP/FAN]</i></p> <p>Button for manual fog blast triggering with the previously made settings.</p>
	<p>⊖</p> <p>Button to exit the open menu and for turning off the fog blast in manual or time-controlled operation. Keep this button pressed for one second to turn off the device.</p>
13	<p>Water level indicator</p> <p><i>[Low Water Ind.]</i></p> <p>This LED lights red when the level in the water tank drops below 5 litres. The display simultaneously shows the message 'Beware: No Water!'. Fill the water tank until the LED goes out.</p> <p><i>[Max. Water Level Ind.]</i></p> <p>This LED lights green when the maximum filling level of the water tank is reached when refilling.</p>

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 switched off.

Open the screw-cap on the fog fluid tank 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 fog fluid tank capacity is 1.2 litre.

Open the screw-cap on the water tank and fill in the water. Make sure that no water is spilled or gets into the device. The easiest way is using a funnel. The water tank capacity is 8 litre.

Screw the caps of both tanks 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. After switching on, the display shows the current software version in 'version Vx.x' format.

The display shows the status from '0%' to '100%' during the heating process (three to four minutes). As soon as the required operating temperature is reached (display shows '100%'), the message 'Machine Ready' appears on the display. The device is operational.

Select the desired operating mode.

Operating mode selection

Press *[FUNCTION]*. The display shows *'Effect Option'*. Now use ▲ or ▼ to select the desired operating mode:

- For operation with fog fluid, select the option *'Effect Option: Heavy Mode'*.
In this mode, the device generates fog on the basis of water and fog fluid. Both the blast volume and distance can be adjusted.
- For operation with water, select the option *'Effect Option: Light Mode'*.
In this mode, the device generates fog on the basis of water. Only the blast distance can be adjusted.

Specify the other device settings and start the operation manually or via a connected DMX controller.

Turning the unit off

Only turn the device off with the main switch after fog output has stopped. Transport the device only when it is completely cooled down. To avoid leaking water or fog fluid during transport, you should transport the device only with empty fluid tank.

6.1 System settings

- Waiting time between fog blasts** Repeatedly press *[FUNCTION]* until the display shows 'Wait Time Set Mode: xxS'. Now use ▲ or ▼ to specify the waiting time between two fog blasts in a range from 1 ... 600 seconds.
- Blast duration** Repeatedly press *[FUNCTION]* until the display shows 'Start Time Set Mode: xxS'. Now use ▲ or ▼ to specify the fog blast duration in a range from 1 ... 600 seconds.
- Amount of fog** This setting is only relevant when the unit is in Heavy Mode (operation with fog fluid).
Repeatedly press *[FUNCTION]* until the display shows 'Timer Smoke Volume Out: xxx%". Now use ▲ or ▼ to specify the fog volume per blast in a range from 1 ... 100 %.
- Fan power** Repeatedly press *[FUNCTION]* until the display shows 'Fan Adjusting Volume: xxx%". Now use ▲ or ▼ to specify the blower power in a range from 1 ... 100 %.

6.2 DMX operation

DMX address

Repeatedly press *[FUNCTION]* until the display shows 'The DMX device address set: xxx'. Now use ▲ or ▼ to assign a desired DMX address in a range from 1 ... 510 (highest possible address in three-channel operation).

DMX assignment in operating mode Heavy Mode (operation with fog fluid)

Channel	Value	Function
1	Setting the fog volume	
	0...255	No fog output (0 %) to maximum fog output (100 %)
2	Setting the blower power	
	0...255	Blower off (0 %) to maximum blower power (100 %)
3	0...127	Selecting operating mode Heavy Mode

DMX assignment in operating mode Light Mode (operation with water)

Channel	Value	Function
1	Setting the fog volume	
	0...255	No fog output (0 %) to maximum fog output (100 %)
2	Setting the blower power	
	0...255	Blower off (0 %) to maximum blower power (100 %)
3	128...255	Selecting operating mode Light Mode

7 Technical specifications

Fog power	2000 W
Water tank capacity	8 l
Fog fluid tank capacity	1.2 kg
Warm-up time	approx. 4 min
Operating supply voltage	AC 230 V ~ 50 Hz
Dimensions (W × H × D)	345 mm × 360 mm × 785 mm
Fuse	5 mm × 20 mm, 10 A, 250 V, fast-acting
Weight	24 kg
Recommended fluids	Stairville Fast Fog Fluid - CO2 Effect (item no. 209054) Stairville E-M Fluid (item no. 121307) Stairville E Fluid (item no. 105454) Stairville E-C Fluid (item no. 105455)

8 Troubleshooting



NOTICE!

Possible data transmission errors

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

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 the 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 DMX controller	1. Check the DMX connectors and cables for proper connection.
	2. Check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check whether the DMX cables run near or parallel to high-voltage cables that may cause damage or interference to a DMX interface circuit.

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 and switch 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 on a regular basis to remove dust and dirt. Before cleaning, switch off the device and disconnect AC-powered devices from the mains. Use a lint-free damp cloth for cleaning. Never use solvents or alcohol for cleaning.

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.

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