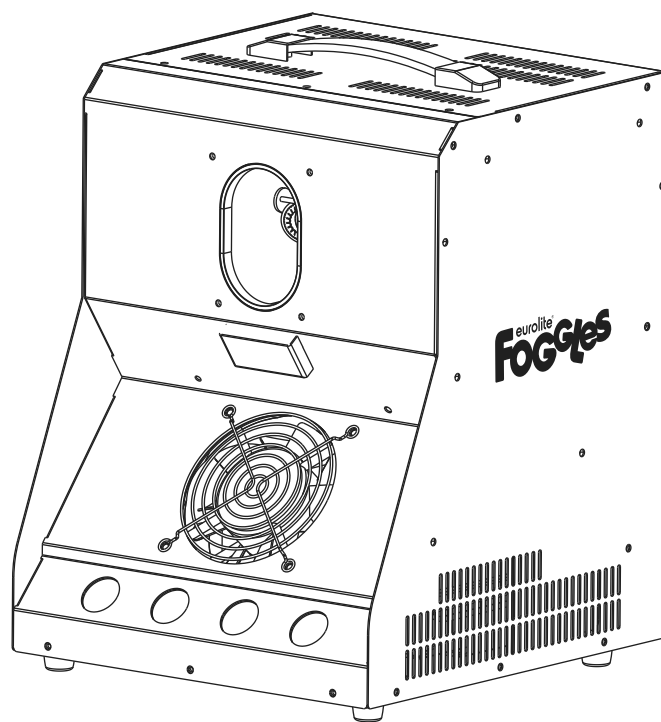


eurolite® **FOGGLES**

Bubble/Fog Machine



Bedienungsanleitung
User Manual

eurolite®

FOGGLES

Dunstnebel- und Seifenblasenmaschine mit Ambientebeleuchtung und DMX
Haze and bubble machine with ambient lighting and DMX

No. 51705160

www.eurolite.de

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For product updates, documentation, software and support please visit www.eurolite.de. You can find the latest version of this user manual in the product's download section.

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INTRODUCTION

Experience Eurolite.

Product videos, suitable accessories, firmware and software updates, documentation and the latest news about the brand. You will find this and much more on our website. You are also welcome to visit our YouTube channel and find us on Facebook.



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Welcome to Eurolite! Thank you for choosing one of our products. Eurolite is your connection to the world of show with an unparalleled variety of products, both for professionals and beginners.

If you follow the instructions given in this manual, we are sure that you will enjoy this product for a long period of time. This user manual will show you how to install, set up and operate your new Eurolite product.

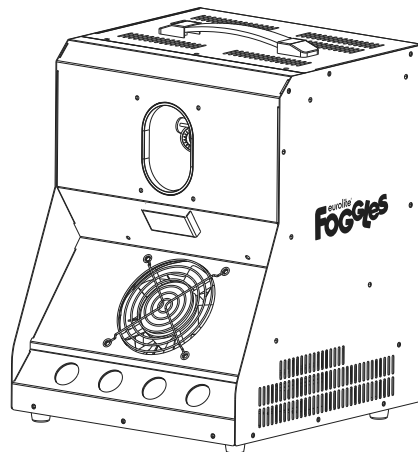
Users of this product are recommended to carefully read all warnings in order to protect yourself and others from damage. Please keep this manual for future needs and pass it on to further owners.

Product features

- Produces haze-filled bubbles or alternatively only haze or only bubbles
- Control: stand-alone, DMX, and QuickDMX, W-DMX or CRMX (optional)
- Ambient lighting
- Short warm-up time
- Adjustable fan speed
- Self-cleaning function
- Removable tanks
- Operates on water-based fog and bubble fluid

Package contents

- Foggles
- Power cable
- Fluid tanks
- these instructions



IMPORTANT SAFETY INSTRUCTIONS

WARNING!



Please read the safety warnings carefully and only use the product as describe in this manual to avoid accidental injury or damage.

Intended use

- This effect machine creates haze-filled bubbles. It is designed for professional use in the field of event technology, e.g. on stage.
- Only use the device according to the instructions given herein. Damages due to failure to follow these operating instructions will void the warranty! We do not assume any liability for any resulting damage.
- We do not assume any liability for material and personal damage caused by improper use or non-compliance with the safety instructions. In such cases, the warranty will be null and void.
- Unauthorized rebuilds or modifications of the device are not permitted for reasons of safety and render the warranty invalid.

Danger due to electricity

- The device is suitable for indoor use only. Do not use it outdoors. Never expose it to rain or moisture. Do not store it in rooms exposed to moisture.
- To reduce the risk of electric shock, do not open any part of the device. There are no serviceable parts inside the device.
- Only connect the device to a properly installed mains outlet. The outlet must be protected by residual current breaker (RCD). The voltage and frequency must exactly be the same as stated on the device. If the mains cable is equipped with an earthing contact, then it must be connected to an outlet with a protective ground. Never deactivate the protective ground of a mains cable. Failure to do so could result in damage to the device and possibly injure the user.
- The mains outlet must be easily accessible so that you can unplug the device quickly if need be.
- Never touch the mains plug with wet or damp hands. There is the risk of potentially fatal electric shock.
- The mains cable must not be bent or squeezed. Keep it away from hot surfaces or sharp edges.
- Never pull the mains cable to disconnect the mains plug from the mains outlet, always seize the plug.
- Unplug the device during lighting storms, when unused for long periods of time or before cleaning.
- Do not expose the device to any high temperatures, direct sunlight, dripping or splashing water, strong vibrations or heavy mechanical stress.
- Do not place any objects filled with liquids on the device.
- Do not place any open sources of fire, such as burning candles, on or directly next to the device.
- Make sure that objects cannot fall into the device, in particular metal parts.
- Only have repairs to the device or its mains cable carried out by qualified service personnel. Repairs are required when the device or the mains cable is visibly damaged, liquid has been spilled or objects have fallen into the device; when the device has been exposed to rain or moisture, has been dropped or malfunctions occur.
- Cleaning of the device is limited to the surface. Make sure that moisture does not come into contact with any areas of the terminal connections or mains voltage control parts. Only wipe off the product with a soft lint-free and moistened cloth. Never use solvents or aggressive detergents.

Danger to children and people with restricted abilities

- This product is not a toy. Keep it out of the reach of children and pets. Do not leave packaging material lying around carelessly. Never leave this device running unattended.
- 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.

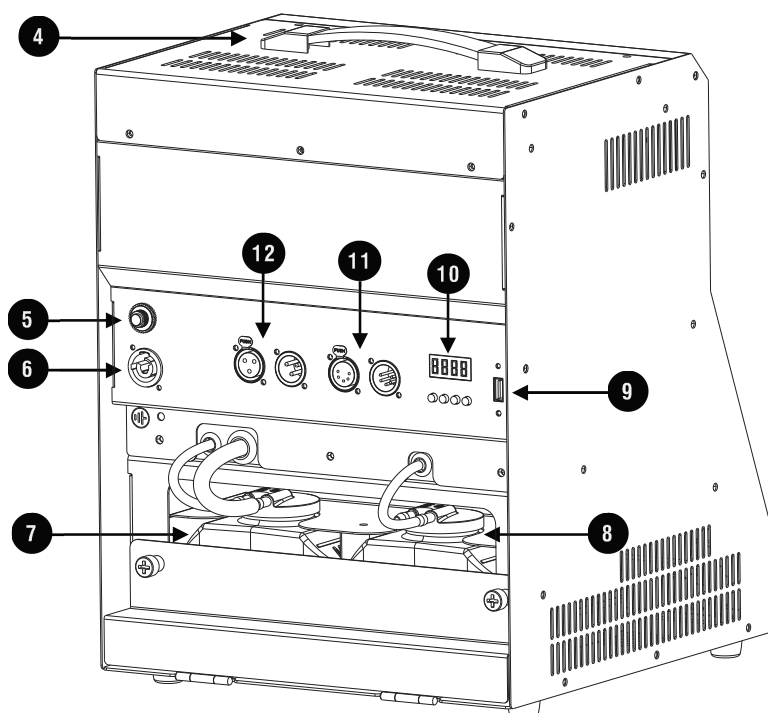
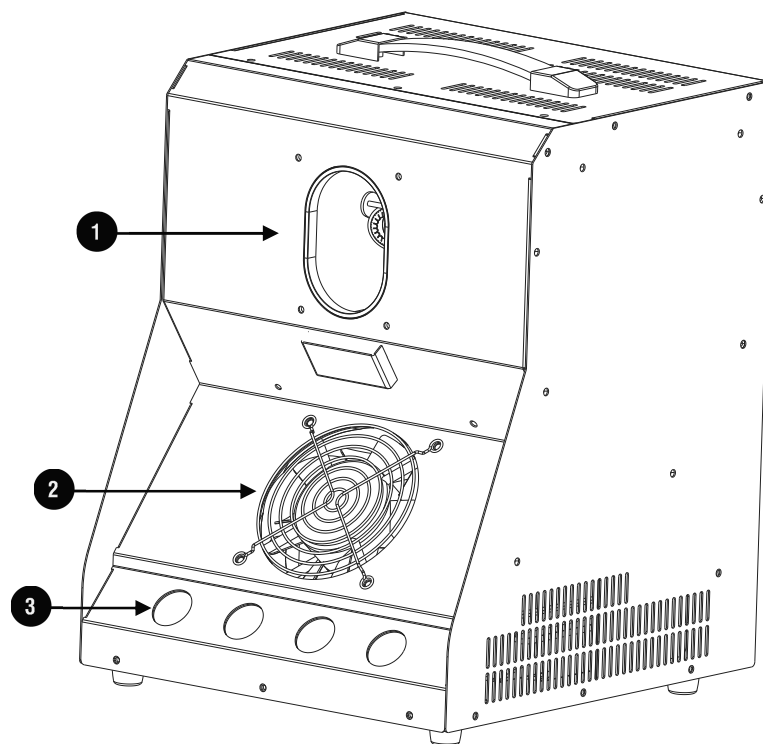
Warning – risk of injuries

- Never drink fluid or use it on the inside or outside of a human body. If fluid gets in contact with skin or eyes, rinse thoroughly with water. If it is necessary call a doctor immediately.
- Danger of explosion! Never add flammable liquids of any kind to the fog liquid.
- Never aim the output nozzle directly at people or at open flames. Never aim the smoke at yourself, people or animals.
- Never aim the smoke at power sockets or other objects that are powered by electrical current. You could damage them or even expose yourself to hazardous electric shocks.
- Never aim the smoke at the device itself or at surfaces that are not heat resistant. Avoid direct skin contact with the smoke. Inappropriate use may cause burns due to high temperatures.
- DANGER OF BURNING! Keep minimum distance of 50 cm to nozzle! Keep device upright.
- Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
- When the fog machine is not in use for a longer period of time empty the entire smoke fluid from the machine before storing it.
- Before filling the device disconnect from mains. Never fill in any hot liquids. Only use high-quality, water-based smoke fluid recommended by the manufacturer. Other smoke fluids may cause clogging. Always make sure there is sufficient smoke fluid in the fluid tank. Operating this smoke machine without smoke fluid will cause damage to the pump as well as over-heating of the heater.
- Make sure that the product is set up or installed safely and expertly and prevented from falling down. Comply with the standards and rules that apply in your country.
- For commercial use the country-specific accident prevention regulations of the government safety organization for electrical facilities must be complied with at all times.
- If you lack the qualification, do not attempt the installation yourself, but instead use a professional installer. Improper installation can result in bodily injury and or damage to property.
- The manufacturer cannot be made liable for damages caused by incorrect installations or insufficient safety precautions.
- For overhead use, always secure the device with a secondary safety attachment such as a safety bond or safety net.
- Make sure that the area below the installation place is blocked when rigging, derigging or servicing the device.

Caution – material damage

- Always make sure there is sufficient smoke fluid in the fluid tank. Operating this smoke machine without smoke fluid will cause damage to the pump as well as over-heating of the heater.
- After operating the fog machine, the fluid ways must be flushed with distilled water. When fog fluid remains in the system and the fog machine is not operated, the fluid may lead to irreversible damages! This will make the warranty void.
- If the device has been exposed to drastic temperature fluctuation, do not switch it on immediately. The resulting condensation may destroy the device. Allow the device to reach room temperature before connecting it. Wait until the condensation has evaporated.
- Always store the device dry! Always drain the tank and please use the original packaging if the device is to be transported.
- Lighting effects are not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- If a serial number label is affixed to the device, do not remove the label as this would make the warranty void.

OPERATING ELEMENTS AND CONNECTIONS



- | | | | |
|---|------------------|---|-------------------------------|
| ① | Output nozzle | ⑦ | Bubble fluid tank |
| ② | Fan | ⑧ | Fog fluid tank |
| ③ | LED illumination | ⑨ | WirelessDMX port |
| ④ | Handle | ⑩ | Display and operating buttons |
| ⑤ | Circuit breaker | ⑪ | 5-pin DMX512 connectors |
| ⑥ | Power input | ⑫ | 3-pin DMX512 connectors |

FLUID

WARNING!

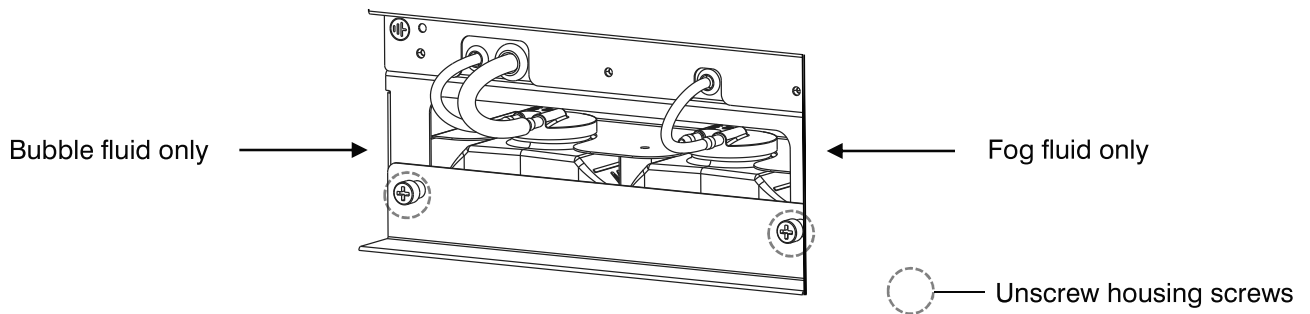


Fluid handling

Always disconnect from the mains before filling the machine. Only use water-based fluids. Never add flammable liquids. If fluid gets inside the machine, have it checked by skilled personnel before it is operated.

The following fluids are optimized for use in the machine. Only use high-quality fluids recommended by your dealer to assure satisfactory results. The use of unapproved fluid can damage the machine.

No. 51705316	Bubble Fluid PRO 2.5l
No. 51703798	Smoke Fluid -C2D- Standard 5l



Unscrew the housing screws and remove the cover. Remove the tank containers, unscrew the covers and fill in the respective fluid type. Close the containers again, insert them into the machine and screw the cover back on.

MOUNTING

CAUTION!



Operating conditions

Before mounting the product, read and follow the chapter Safety Instructions. This product may not be tilted. This product should be level at all times.

- Remove all packing materials from the shipping box. Make sure that there are no packing remnants at the output nozzle.
- Install the device in a well-ventilated area. The operation in an insufficiently ventilated room can lead to a condensation of the fog fluid. The resulting slippery surface can cause accidents.
- Keep a minimum distance of 20 cm around and above the device.
- Only install the fog machine on scratch resistant and water resistant surfaces.
- Do not orientate the escape nozzle directly in the direction of the audience's eyes. In order to create a good effect, there should be a distance between the device and the audience of at least 1.5 m.
- The bubbles leave a slippery surface; consider this when installing your machine.

OPERATION

CAUTION!



Operating conditions

Never operate the machine without fluid to prevent pump and heater damage.

During operation, reduced fog output may occur. In this case the device is heating up again. After a short period, the machine will be ready to emit fog again. This process guarantees an appropriate vaporization temperature and the best fog emission possible. The temperature is regulated by a high-quality thermostat.

Use the bubble cleaning mode after every use. Prior to transportation, allow the machine to cool down and completely drain both tanks. Fluid may thicken in the reservoir and lead to damage or reduced performance.

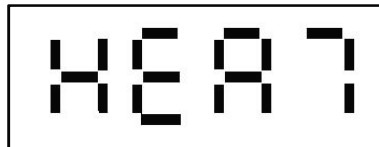
CAUTION!



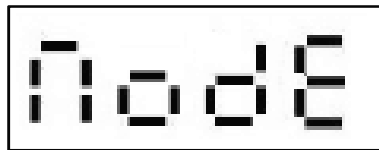
After use

Use the bubble cleaning mode after every use. Prior to storage completely drain both tanks. Fluid may thicken in the reservoir and lead to damage or reduced performance.

- Prior to switching on, check the fluid level of the tanks and fill up fluid, if required.
- Connect the machine to the mains with the power plug. The machine does not feature a power switch. When the machine is connected to the mains it is powered on and starts the warm-up process. The display indicates "HEAT".



- While the machine is warming up, fog output will not yet be possible. Once the warm-up process is completed, the display indicates the standard screen and fog output is possible.





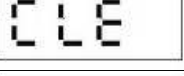
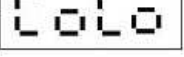


Operating buttons

Button	Function
MENU	Selecting menu items
ENTER	Confirming options and settings Stopping the output
▲/▼	Setting values and options

If no DMX signal is present, the machine can be controlled using the operating buttons. To select a function, press the MENU button repeatedly until the desired function is shown on the display. Press ENTER to select the desired function. Use the ▲ and ▼ buttons to change the mode and set values. Press ENTER to return from all menus to the standard display.


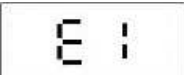

Menu structure

Mode	Display	Function
Operating mode		n1: Haze n2: Bubbles n3: Bubbles with haze
Haze		Output volume 1- 100 %
Fan		Fan speed 1, 2, 3
Starting address		DMX starting address 1-512
Bubble cleaning		Cleaning mode on/off
Color options		LED color 1-8 or off (0)

Notes

- For the bubble cleaning mode, use clean water to rinse out the bubble mechanism. The cleaning mode will run for 1 minute before reverting to standby.
- Use the bubble cleaning mode after every use.
- Press ENTER to return from all menus to the standard display.
- After a few seconds without pressing a button, the setting mode will be exited automatically, but any setting made will also be saved in this case.
- The fan speed can only be set if n2 or n3 mode is selected.
- The fan speed and the output volume can only be set if mode n1 or n3 is selected.

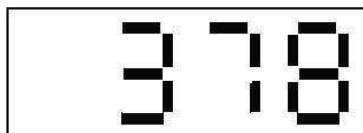
Status indications

Status	Display	Function
Heating phase		The heating phase takes approx. 3 minutes.
Error		If the machine heats up and does not reach the specified temperature within 8 minutes, heating has failed. In this case, there is a defect. Contact your dealer.
Error		When the thermocouple is disconnected, the machine stops working.

DMX CONTROL

Adjusting the DMX start address

When the machine is controlled via DMX signal, DMX mode is activated. The display indicates the current DMX starting address. To ensure that the control signals are properly directed to the machine, it must be adjusted to the DMX start address provided for it on the DMX controller. Use the buttons ▲ and ▼ to set the address between 001 and 512. You may now start operating the machine via your DMX controller.



Note

- Please make sure that you do not have any overlapping channels in order to control each device correctly and independently from any other fixture on the DMX data link. If two, three or more devices are addressed similarly, they will run in sync.

DMX functions

For operation with a controller with DMX512 protocol, the machine is equipped with 12 control channels.

Channel	Mode	DMX value	Function
1	Bubbles	0-10	No function
		11-255	Bubble output on
2	Haze	0-10	No function
		11-255	Haze volume low > high
3	Fan	0-10	No function
		11-100	Fan speed low
		101-200	Fan speed middle
		201-255	Fan speed high
4	Cleaning	0-10	No function
		11-255	Bubble cleaning mode on (overrides other functions)
5	Dimmer	0-10	No function
		11-255	Overall brightness dark > bright
6	Red	0-10	No function
		11-255	Brightness dark > bright
7	Green	0-10	No function
		11-255	Brightness dark > bright
8	Blue	0-10	No function
		11-255	Brightness dark > bright
9	Purple	0-10	No function
		11-255	Brightness dark > bright
10	Color macro	0-10	No function
		11-255	Color selection
11	Strobe effect	0-10	No function
		11-255	Flash rate slow > fast
12	Color fade	0-10	No function
		11-255	Running speed slow > fast

Connecting a DMX512 controller

The unit features 3- and 5-pin XLR plugs for DMX connection.

- Connect the output of your DMX controller to the DMX IN jack of the machine with a DMX cable.
- Connect the DMX OUT jack of the machine to the DMX input of the next unit in the chain. Always connect one output to the input of the next unit until all units are connected.
- At the last unit, the DMX cable has to be terminated. Plug the terminator with a 120 Ω resistor between Signal (-) and Signal (+) in the DMX output of the last unit.
- If the cable length exceeds 300 m or the number of DMX devices is greater than 32, it is recommended to insert a DMX level amplifier to ensure proper data transmission.

Connecting a wireless DMX receiver

The device features an alternative DMX input for a QuickDMX receiver (sold separately). CRMX and WDMX receivers are compatible and can also be used. The connector allows a DMX control signal to be transmitted wirelessly to the device, eliminating the need for complex wiring to the DMX controller. The connector is designed as a USB port which provides the required 5 V operating voltage for the receiver.

CLEANING AND MAINTENANCE

NOTICE!



Maintenance conditions

There are no serviceable parts inside the device. Maintenance and service operations are only to be carried out by authorized dealers. Should you need any spare parts, please use genuine parts.

CAUTION!



Storage conditions

Never store this machine without cleaning the bubble mechanism. Use clean water to rinse out the mechanism.

CAUTION!



Transport conditions

Prior to transportation, allow the machine to cool down and completely empty the fluid reservoirs.

Cleaning after use

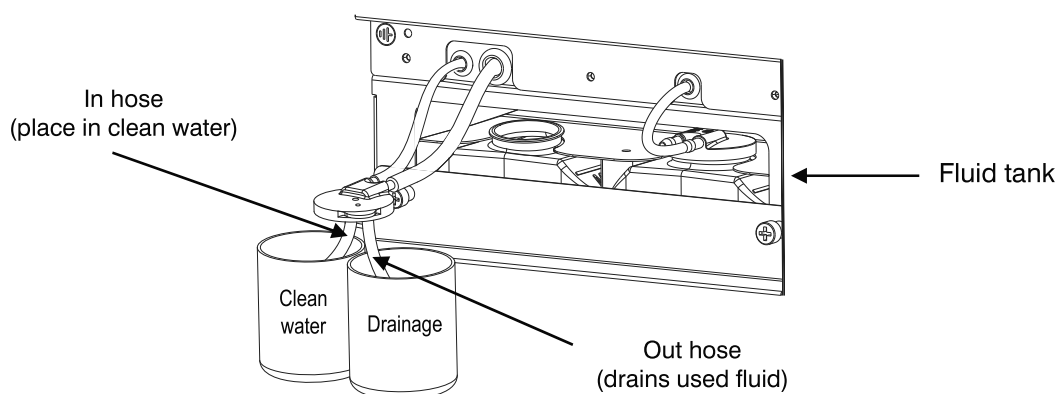
After every use, it is necessary to clean the bubble mechanism with clean water in time to prevent the residual bubble liquid on the fog head from solidifying and gluing, which will lead to damage or reduced performance.

Procedure:

1. Disconnect the machine from power.
2. Drain both tanks and wipe out the tank compartment.
3. Connect the machine to the power supply and allow it to warm up. Run the cleaning mode via the menu or via DMX as follows.

How to use the cleaning mode for the bubble mechanism:

1. Unscrew the cap from the bubble fluid reservoir.
2. Place the thin hose in a container of clean water.
3. Place the thick hose where it can safely drain.
4. Run the cleaning mode via the menu or via DMX.
5. Thoroughly rinse the bubble fluid reservoir.
6. Run the product in a well-ventilated area. Do not allow the pump to run dry.
7. The cleaning mode will run for 1 minute. Then the machine will revert to standby.
8. Reattach the hoses and the cover to the fluid reservoir.
9. The machine may now be stored until its next use.



General cleaning

Excessive dust, fluid residue and dirt will degrade performance and cause overheating. Remove dust from air vents with an air compressor, vacuum or soft brush. Please use a soft lint-free and moistened cloth for the outside of the unit. Never use alcohol or solvents!

Cleaning the heating element

The heating element should regularly be cleaned every 40 operational hours in order to avoid clogging. It is recommended to run a cleaning solution composed of 80% distilled water and 20% white vinegar through the system.

Procedure:

- Fill cleaning solution into empty fluid tank. Run the machine several times in a well-ventilated room. The number of repetitions depends on the pollution level of the vaporizing elements.
- After use, empty all remaining cleaner and rinse the tank thoroughly.
- The Eurolite fog fluids we recommend are non-hazardous to the environment and can be disposed of via the sewage system.

Storage

It is recommended to operate the machine at least once a month with a warm-up period and a few minutes of fog emission. Prior to storage, run cleaning fluid through the system as described in the cleaning regimen above. This will help avoid any particles condensing inside the pump or heater.

Fuse

The machine is fitted with a circuit breaker. In the unlikely event of overloading, the circuit breaker will automatically trip. It can be reset by pressing the BREAKER button with the machine unplugged.

PROTECTING THE ENVIRONMENT

Disposal of old equipment



When to be definitively put out of operation, take the product to a local recycling plant for a disposal which is not harmful to the environment. Devices marked with this symbol must not be disposed of as household waste. Contact your retailer or local authorities for more information. Remove any inserted batteries and dispose of them separately from the product.

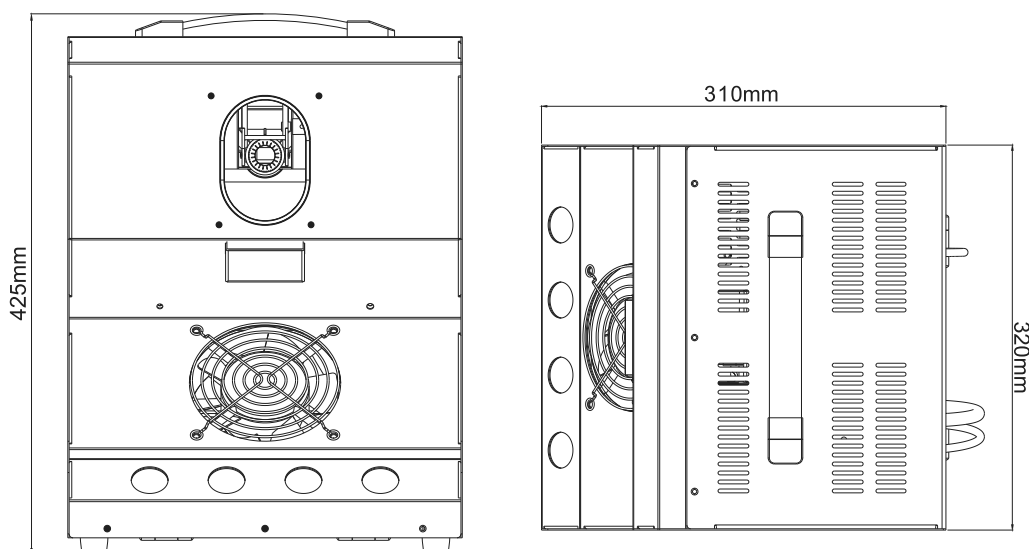


You as the end user are required by law (Battery Ordinance) to return all used batteries/rechargeable batteries. Disposing of them in the household waste is prohibited. You may return your used batteries free of charge to collection points in your municipality and anywhere where batteries/rechargeable batteries are sold. By disposing of used devices and batteries correctly, you contribute to the protection of the environment.

TECHNICAL SPECIFICATIONS

Power supply:	230 V AC, 50 Hz
Power consumption:	600 W
IP classification:	IP20
Protection class:	Protection class I
Power connection:	P-Con (blue), power supply cord with safety plug provided
Fuse:	F 5 A resettable
LED:	4
Warm-up time:	Approx. 3 min
Tank capacity:	1.2 l water-based fluid removable tank 1.2 l bubble fluid removable tank
Fluid consumption:	Approx. 13 ml/min
DMX channels:	12
DMX512 connection:	3-pin and 5-pin XLR
Control:	Stand-alone, DMX, and optionally QuickDMX, W-DMX by Wireless Solution, CRMX by LumenRadio via USB
Weight:	10.55 kg

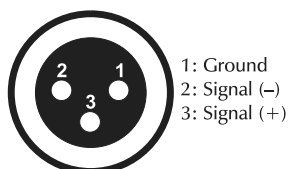
Specifications are subject to change without notice due to product improvements.



Pin connection:

DMX-output

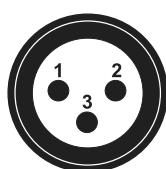
XLR mounting-socket:



- 1: Ground
- 2: Signal (-)
- 3: Signal (+)

DMX-input

XLR mounting-plug:



- 1: Ground
- 2: Signal (-)
- 3: Signal (+)

USB port



+5V D- D+ GND

Accessories

No. 51834034	WDR USB Wireless DMX Receiver
No. 70064704	EUROLITE QuickDMX USB Wireless Transmitter/Receiver
No. 51705316	PUSTEFIX Bubble Fluid PRO 2.5l
No. 51705300	EUROLITE Bubble Concentrate for 5l
No. 51703798	EUROLITE Smoke fluid -C2D- standard 5l

eurolite®

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