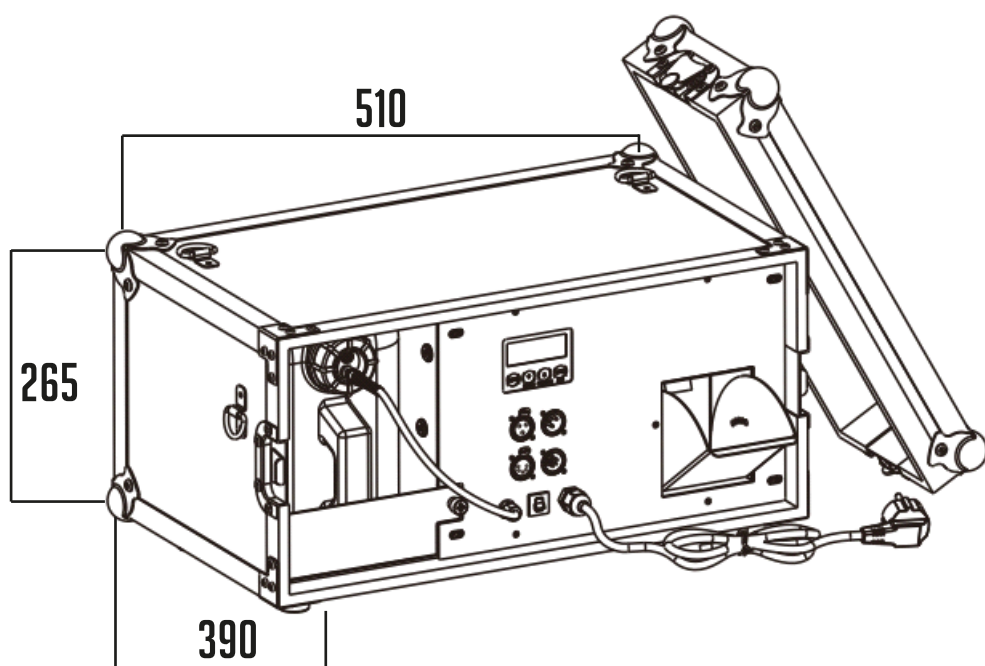


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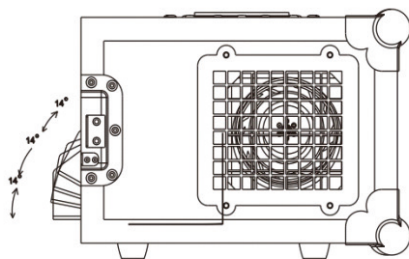
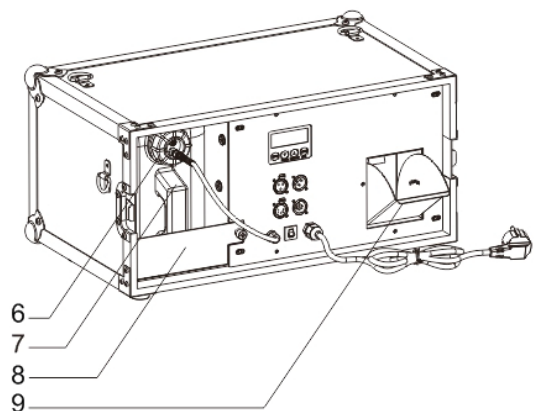
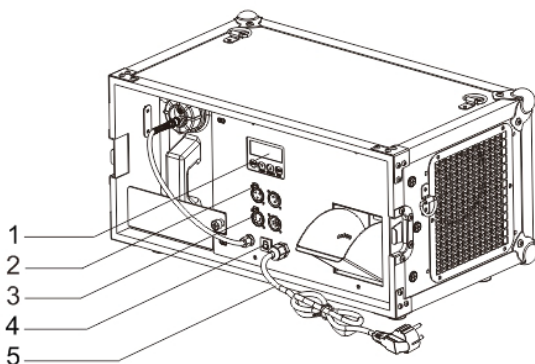
DIMENSIONS

ALL DIMENSIONS ARE IN MILLIMETERS



MACHINE OVERVIEW

1. LCD Display
2. 3-pin DMX socket
3. 5-pin DMX socket
4. Overload protection
5. Power cord
6. Fluid container
7. Fluid container handle
8. Fluid container fixation
9. Smoke output



SAFETY INSTRUCTION



WARNING!

Read the safety precautions in this section before installing, powering, operating or servicing this product

The following symbols are used to identify important safety information on the product and in this manual:



DANGER!
Safety hazard.
Risk of severe injury or death.



DANGER!
Hazardous voltage. Risk of lethal or severe electric shock.



WARNING!
Fire hazard.



WARNING!
LED light emission. Risk of eye injury.



WARNING!
Burn hazard. Hot surface. Do not touch.



WARNING!
Wear protective eyewear.



WARNING!
Refer to user manual.



USING FOR THE FIRST TIME

This product is for professional use only. It is not for household use.

This product presents risks of severe injury or death due to fire and burn hazards, electric shock and falls.

Read this manual before installing, powering or servicing the fixture, follow the safety precautions listed below and observe all warnings in this manual and printed on the fixture. If you have questions about how to operate the fixture safely, please contact your supplier.



PROTECTION FROM ELECTRIC SHOCK



- Disconnect the machine from AC power before removing or installing any cover or part and when not in use.
- Always ground (earth) the fixture electrically.
- Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault (earth-fault) protection.
- Before using the machine check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- Power input and throughput cables must be rated 20 A minimum, have three conductors 1.5 mm² (16 AWG) minimum conductor size and an outer cable diameter of 5 - 15 mm. Cables must be hard usage type (SJT or equivalent) and heat-resistant to 90° C minimum.
- Use only PowerCON® cable connectors to connect to power input sockets. Use only PowerCON® cable connectors to connect to power through put sockets.
- Isolate the machine from power immediately if the power plug or any seal, cover, cable, or other component is damaged, defective, deformed, wet or showing signs of overheating. Do not reapply power until repairs have been completed.



DO NOT EXPOSE THE FIXTURE TO RAIN OR MOISTURE

CLF Haze II has an IP20 rating, indoor use only.

SAFETY INSTRUCTION



PROTECTION FROM BURNS AND FIRE



- Do not operate the machine if the ambient temperature (T_a) exceeds 45°C.
- The exterior of the machine becomes hot during use. Avoid contact by persons and materials. Allow the machine to cool for at least 10 minutes before handling.
- Keep all combustible materials (e.g. fabric, wood, paper) at least 100 mm away from the nozzle
- Keep flammable materials well away from the machine
- Ensure that there is free and unobstructed airflow around the machine
- Do not place objects within 200 mm of the machine
- Do not attempt to bypass thermostatic switches or fuses.
- If you relay power from one machine to another using power throughput sockets, do not connect more than 1 machines in total to each other in an interconnected chain.
- Connect only other machines to fixture power throughput sockets. Do not connect any other type of device to these sockets.
- Do not connect any other type of device to these sockets.
- Do not stick filters, masks or other materials onto any optical component.
- Do not modify the machine in any way not described in this manual
- Do not connect machine to a dimmer



PROTECTION FROM INJURY



- Ensure that persons are not looking at the LEDs from within 3 meters when the product lights up suddenly. This can happen when power is applied, when the product receives a DMX signal, or when SERVICE menu items are selected.
- Fasten the fixture securely to a fixed surface or structure when in use. The fixture is not portable when installed.
- Ensure that any supporting structure and/or hardware used can hold at least 10 times the weight of all the devices they support.
- Allow enough clearance around the head to ensure that it cannot collide with an object or another fixture when it moves.
- Check that all external covers and rigging hardware are securely fastened.
- Block access below the work area and work from a stable platform whenever installing, servicing or moving the machine
- Do not operate the machine with missing or damaged covers, shields or any optical component.

AC POWER



POWER VOLTAGE

Check that the voltage range specified on the machine serial number label matches the local AC mains power voltage before applying power to the fixture. The machine accepts AC mains power at 100-240 V nominal, 50/60 Hz. Do not apply AC mains power to the machine at any other voltage than specified.



POWER CABLES

Power input and throughput cables must be rated 20 A minimum, have three conductors 1.5 mm² (16 AWG) minimum conductor size and an outer cable diameter of 5 - 15 mm. Cables must be hard usage type (SJT or equivalent) and heat- resistant to 90°C minimum. In the EU the cable must be HAR approved or equivalent. If you install a power plug on the power cable, install a grounding-type (earthed) plug that is rated 20 A minimum. Follow the plug manufacturer's instructions. Table 1 shows standard wire color-coding schemes and some possible pin identification schemes; if pins are not clearly identified, or if you have any doubts



Wire color (EU models)	Wire color (US models)	Conductor	Symbol	Screw (US)
Brown	Black	Live	L	Yellow or Brass
Blue	White	Neutral	N	Silver
Yellow / green	Green	Ground (earth)	 or 	Green

Table 1: Wire color-coding and power connections

DATA LINK

A DMX 512 data link is required in order to control a machine via DMX. The machine has 3 & 5-pin XLR connectors for DMX data input and output. The pin-out on all connectors is pin 1 = shield, pin 2 = cold (-), and pin 3 = hot (+) Pins 4 and 5 in the 5-pin XLR connectors are not used.

TIPS FOR RELIABLE DATA TRANSMISSION

- To connect the machine to data:
1. Connect the DMX data output from the controller to the closest machines male 3 & 5-pin XLR DMX input connector.
 2. Connect the DMX output of the machine closest to the controller to the DMX input of the next machine and continue connecting machines output to input.

PHYSICAL INSTALLATION



Warning! The machine must be either fastened to a flat surface such as a stage or wall, or clamped to a truss or similar structure in any orientation using a rigging clamp.

Warning! At all times machine can cause injury or damage if it falls, attach an approved safety cable to one of the safety cable attachment points on the base (see "machine overview" on page 4).



Check that all surfaces more far away than a minimum of 200 mm. from the machine, that combustible materials (wood, fabric, paper, etc.) are minimum 100 mm. from the nozzle, that there is free airflow around the machine and that there are no flammable materials nearby.

FASTENING THE MACHINE TO A FLAT SURFACE

The machine can be fastened to a fixed flat surface that is oriented at any angle. Check that the surface can support at least 10 times the weight of all machines and equipment to be installed on it. Warning! The supporting surface must be flat otherwise the air vents in the base may be blocked, which will cause overheating. Fasten the machine securely. Do not place it on a surface or leave it where it can be moved or can fall over. Attach a securely anchored safety cable to the safety cable attachment point (see "machine overview" on page.

If the machine is installed in any location where it may fall and cause injury or damage if the primary attachment fails:

1. Block access under the work area. Working from a stable platform.
2. Secure the machine with a secondary attachment such as an approved safety cable that is rated for the weight of the machine using one of the attachment points at the edges of the base (see "machine overview" on page 4). Do not use any other part of the machine as a safety cable attachment point.

OPERATING INSTRUCTIONS

1. After checking that all the parts are intact and complete, position the machine on a flat surface.
2. Only use designated CLF Lighting haze liquid. Machine can be harmed when using other fluids and warranty is expired
3. Connecting the power cord. Before power on, make sure it is connected with the rated voltage.
4. Turn on the machine, it will immediately start heating up, the digital display will show "WARMING UP".

MENU INSTRUCTION

1. MENU button: When it shows "HEAT", press "menu" button to enter the page "ADDR"
2. UP button: Increase the relevant value of each page
3. DOWN button: Decrease the relevant value of each pag
4. ENTER button: Enter or exit each page

MENU NAVIGATION



MENU: Scroll through setting menu;
 UP: Increase, multiplex "TIMER" button;
 DOWN: Decrease, multiplex "VOLUME" button;
 ENTER: In/Out, multiplex "stop" button;

Press " MENU " button to switch different pages, 9 pages in total:

- | | |
|--------------------|--|
| 1. Ready To Fog: | The machine is ready to work |
| 2. Interval Set: | To set the interval of timer mode , adjustable from 5~200s |
| 3. Duration Set: | To set the duration of timer mode , adjustable from 5~200s |
| 4. Timer out: | Set the haze fog output from 1 - 100% under Timer mode |
| 5. Volume out: | Set the haze fog output from 1 - 100% under Volume mode |
| 6. Fan speed: | Set the fan speed from 1 - 100% |
| 7. DMX512 Address: | The DMX address can be set up from 1 to 512 |
| 8. Direct timer: | Direct timer on / off after power on |
| 9. Language: | Select the language saved by "Enter" |

Under any setting pages, press STOP to exit or return to the page one.

When the unit is working, press STOP to stop running and return to the page one. After enter into different setting pages, press UP and DOWN to change the value. When it is in the page one, press TIMER button to enter into timer mode.

DMX CHANNELS

Channel	Function	Value	Percentage	Remark
CH 1	FAN output	001 - 255	0 - 100%	000 = Minimum speed
CH 2	HAZE output	030 - 255	0 - 100%	000 - 029 = OFF

MAINTENANCE

Oil injection trouble:

Refers to the fog fluid atomizing in the heater pipe of the machine is not good, heater temperature cannot be timely and effective transmit to the fog fluid, fog fluid cannot all atomization and lead to oil injection.

1. Using the low quality or counterfeit fog fluid, low quality fog fluid have more impurities, easy to adhere to the pipe wall and hindered temperature transmission result in incomplete atomization caused oil injection.
2. Using an incorrect fog fluid. Different fog fluid have different required atomization temperature. If you use the wrong fog fluid result in oil cannot fully atomization caused oil injection.(fig 1)

Heater blocking trouble:

Poor atomization oil injection is the early signs of heater block. Using poor quality fog fluid or not timely maintenance cleaning the fog machine for a long time. Inevitable will appear the terminal symptom of heater blocking.

1. heater blocked is because used inferior fog fluid or not maintenance for a long time. Have nothing to do with the quality of machine. Like a car with poor quality gasoline produce poor oil circuit failure or long-time no maintenance the car will inevitably appear bigger problems. (fig 2)

Solutions to these problems:

Fog machine heating pipes used for a long time and then the pipe wall will easily produce sediments (The more inferior fog fluid the more impurities thus lead to oil injection or blocked). All fog machines need regular maintenance (fog machine maintenance cycle for 1 to 2 months/time).

Specific maintenance method: after heating the 35% white vinegar plus 65% distilled water and then spray 10 to 15 times

Conclusion:

As long as the fog machine with oil injection or heater blocking after using a period of time. It was caused by fog fluid quality or lack of maintenance, has nothing to do with the quality of the machine. Please use the original high quality fog fluid and timely maintain it, then it can be used for a long time

Pipeline has covered by dirt, insufficient heat transfer result in water-spraying.

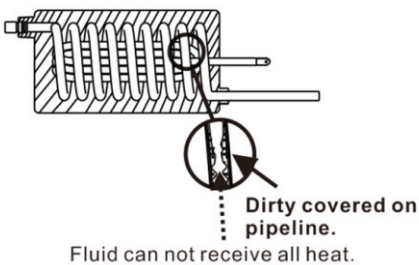


Fig 1

Pipeline has covered by dirt, that results in blocked heater.

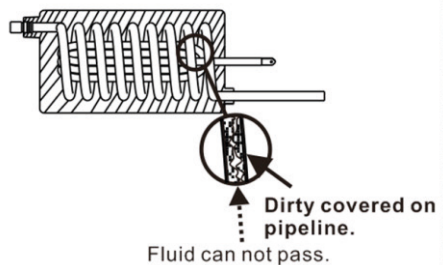
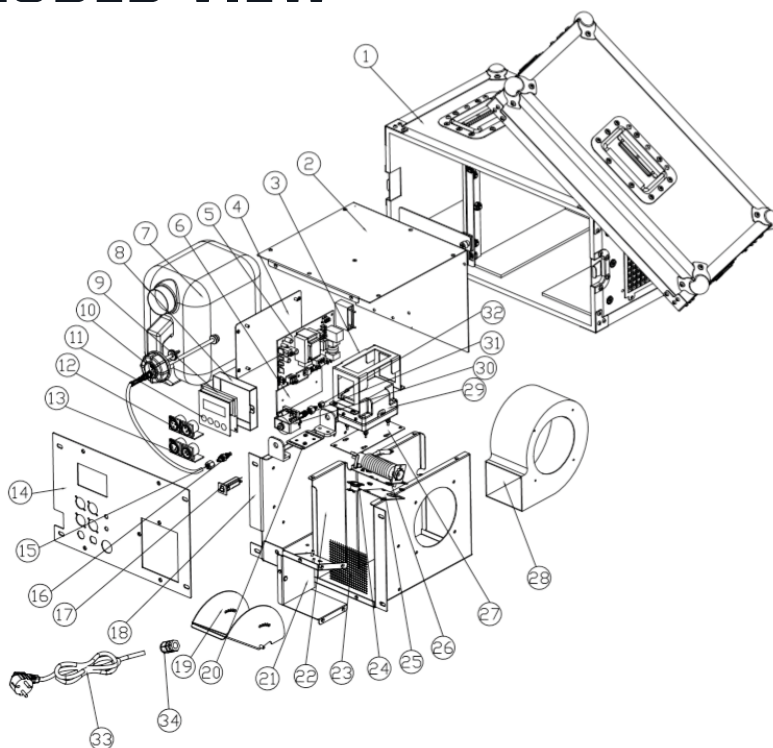


Fig 2

EXPLODED VIEW



1	Empty flight case	CLF-70-035	18	Position part air direction	CLF-70-052
2	Top cover	CLF-70-036	19	Air director	CLF-70-053
3	Air pump support	CLF-70-037	20	Pump mounting bracket	CLF-70-054
4	Main PCB plate	CLF-70-038	21	Position part air direction inside	CLF-70-055
5	Main PCB	CLF-70-039	22	Nozzle	CLF-70-056
6	Aluminium heat sink	CLF-70-040	23	Filter air direction	CLF-70-057
7	Fluid container	CLF-70-041	24	Thermostat	CLF-70-058
8	LCD cover	CLF-70-042	25	Heat filter	CLF-70-059
9	Display PCB	CLF-70-043	26	Fast heater	CLF-70-060
10	Fluid cap	CLF-70-044	27	Pump support plate	CLF-70-061
11	LCD display	CLF-70-015	28	Fan	CLF-70-062
12	3-pin DMX PCB (male/female)	CLF-70-046	29	Air pump	CLF-70-063
13	5-pin DMX PCB (male/female)	CLF-70-047	30	Fluid pump	CLF-70-064
14	Front plate	CLF-70-048	31	Copper connector fluid pump	CLF-70-065
15	Copper cap fluid line	CLF-70-049	32	Copper cap fluid pump	CLF-70-066
16	Copper connector fluid line	CLF-70-050	33	Connection cable	CLF-70-067
17	Fuse	CLF-70-051	34	Cable gland	CLF-70-068

SPECIFICATIONS

Power hazer	1200W
Power heater	1100W
Voltage / frequency	AC100V - 240V - 50/60Hz
Fuse	8A/250V
AC power input	PowerCON
DMX data in/out	5 pin & 3 pin locking XLR
Netto weight	14kg
Size	510x390x265mm
Control	DMX
Channel	2 channels
Output	12000CUFT/MIN
Settings and addressing	control panel with backlit LED graphic display
Protocol	USITT DMX512-A & wireless
Housing color	Black flightcase
Housing	High strenght die-casting aluminium and metal
Protection rating	IP20
Orientation	Floor & horizontal
Min. distance to combustable materials	50mm from machine
Min. distance to iluminated surfaces	100mm from machine
Wireless remote	No
Fluid consumption	83min/L
Fluid capacity	5L
Fluid brand	CLF Haze fluid
Heat up time	50 sec
Max. ambient temperature (Ta max)	45°C

HAZE II