

UNIQUE 2.1



Set of Equipment supplied

- 1 **Unique 2.1**
- 1 tank lid with quick connector, silicon tube and air valve filter
- 1 canister of UNIQUE-fluid, 2l
- 1 manual

As an option:

- XLR remote for analog control (delivered without cable)
- Diverter
- Flightcase
- Hanging set

Please check whether all the products you ordered are supplied.

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1. Introduction

The haze machine **Unique 2.1** offers various new features, which open new fields of operation to the user.

The intended use of the machine is to produce haze, creating the right atmosphere and to provide excellent support for lighting effects.

With its variable output, the machine can be used in many fields of operation. Any desired effect can be achieved: from the finest mist to a thick haze, similar to fog. Therefore the **Unique 2.1** is able to fill rooms or halls with a constant haze.

The pump and the fan are fully and separately controllable, giving the **Unique 2.1** a good level of noise reduction. The machine can therefore be used in fields of operation where any sound is undesirable or causes disturbance.

The ready-mixed fluid, available in canisters of 2 litres, guarantees a trouble-free working and continuous output for up to 50 hours.

The warm up time is extremely short (max. 1 min.)

With its power requirement of 1500 watt the **Unique 2.1** is very powerful.

2. Safety instructions

A fog machine is not a toy!

- Very hot steam escapes from the nozzle. Danger of getting burnt.
- Occasionally very hot droplets of fluid may escape when in operation. Thus never aim at persons directly and keep a minimum distance of 3 m (9.8 ft) to the nozzle.
- Never touch the nozzle when in operation. Danger of getting burnt.
- The location for the machine must be non-flammable, non-combustible and not sensitive to heat. It has to be twice as big as the machine.
- Keep a minimum distance of 60 cm (1.9 ft) to all flammable, combustible objects and objects sensitive to heat.
- Glycol is alcohol and burns with a slightly bluish, almost invisible flame. Never point the fog at strong sources of ignition like fire or pyrotechnic effects.
- Never open the machine and leave the machine unattended when connected to a power supply.
- The visibility has to be more than 2 m (6.5 ft) in rooms where people walk around.
- It is only allowed to fly/hang the machine by using the original hanging set.
- Only use the supplied „UNIQUE-fluid“. Different types of fluid do not generate the fog you require and destroy your fog generator.
- Do not swallow the fog fluid. Keep it away from children. In case of eye contact, rinse with a lot of water. Consult a doctor should you have accidentally swallowed some fluid.
- Spilled fluid or splashed fluid droplets can cause slip hazard. Mop up the fluid and dispose of it according to regulations. UNIQUE-fluid is completely water-soluble and biodegradable.
- Fog may activate smoke detectors.

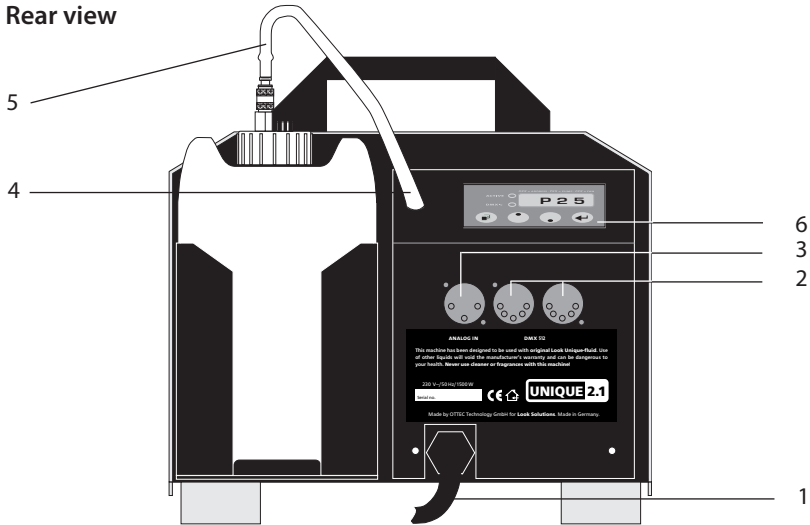
Artificially-made fog can be produced in many different ways. The method used here to produce fog, with a device which works according to the vaporizer principle, is the most harmless one.

No case has so far been reported in which a sound human being has been harmed because of using our device to produce artificial fog. However, this can only be guaranteed if the professional fog generators are used accordingly, i.e. at the correct vaporization temperatures as well as with the correctly mixed fog fluid.

We, however, recommend: People with health problems or problems of the respiratory tract or with an inclination for allergies should avoid any contact with artificially-made fog.

3. Description of the parts

Rear view



1: Mains cable

2: XLR sockets for DMX in/out

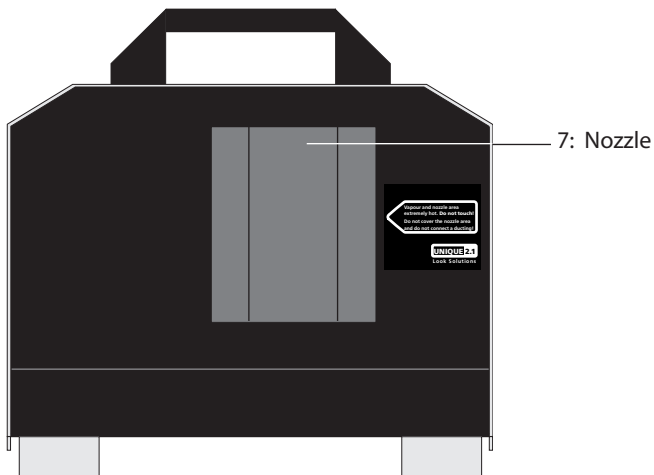
3: XLR socket for 0-10V (+) DC

4: Fluid tube inlet

5: Fluid tube

6: Control panel for adjusting
the DMX start address and
the output

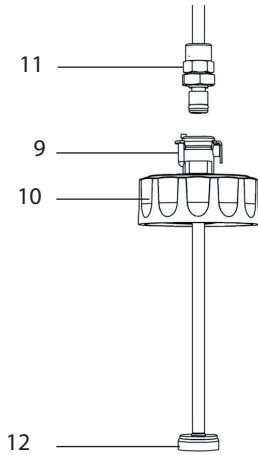
Front view



7: Nozzle

3. Description of the parts

Tank lid



- 9: Quick coupling
- 10: Tank lid
- 11: Plastic spigot
- 12: Filter

4. Fluid

4.1 General notes

The ready-to-use UNIQUE-Fluid for use in the **Unique 2.1** is available in 2 litre canisters from your local dealer. Fluid also comes in 10 and 25 litre canisters and barrels with 220 litres.

To guarantee trouble-free operation the special "UNIQUE-Fluid" must be used.

Use of other liquids will void the manufacturer's warranty and can be dangerous to your health.

PLEASE NOTE: The vaporizer of our machines does not have to be cleaned! Cleaners, available on the market, can damage the vaporizer! We cannot grant warranty in this case.

4.2 Changing the fluid bottle

- Disconnect the fluid tube from the lid by pressing the quick coupling [9] and removing the plastic spigot [11].
- Remove the container from the tank housing of the **Unique 2.1**.
- Unscrew the lid [10] of the empty container and screw it onto the new container.
- Place the full container into the tank housing.
- Push the plastic spigot [11] into the quick coupling [9], until you hear a click. The spigot is now locked firmly.

4.3 Storage of the fluid

The "UNIQUE-Fluid" is a highly concentrated fluid. You can store it for a very long period.

5. Operating the Unique 2.1

From the finest mist to a thick haze, similar to fog, any desired effect can be achieved. These haze effects form slowly so that the device should be switched on some time before the lighting or the laser start to operate.

Important: Do not connect a ducting to the nozzle of the **Unique 2.1**. If a ducting is connected directly to the machine the haze will be pushed back into it. This may damage the machine. We cannot grant warranty in this case!

5.1 Selecting the location

The location in which the **Unique 2.1** is to be operated must

- be dry,
- be free from dusty or polluted air,
- be free from vibrations,
- be a non-flammable place or surrounding,
- be well-ventilated with haze-free air keeping the ambient operating temperature between 10° C and 40° C (50° F and 105° F) and the relative humidity below 80%.

5.2 Putting into operation

Warning: Never connect the Unique 2.1 to a dimmer or switchpack! This may destroy the machine.

- a. Connect the power plug to the mains supply. Make sure the correct voltage is selected.
A P and two figures appear on the LED-display [17].



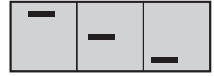
- b. After 60 Seconds, the **Unique 2.1** is heated up. Press the Enter-button [16] once to start the haze process. The green Active-LED [18] will be lit. After a short delay the machine begins to haze.

After 30 Seconds the display will go dark. To re-activate it, press one of the buttons on the display.

5. Operating the Unique 2.1

5.3 Switching the device off

- a. Press the Mode button [14] till „OFF” appears on the display. After 15 Seconds the machine will switch into the post-run-mode automatically. On the LED display lines appear which move from upper left to the lower right while the heater is cooling.



To cut this process short, the air pump works with full power for a short time and also put all remaining fluid out of the vaporizer. The remaining fluid will maybe come out as a bigger haze cloud. This is normal and no failure of the machine. When the heater is cooled down, a red decimal point will appear on the right bottom edge of the display.



- b. When you switch off the DMX signal, the machine will be switched into the post-run-mode to cool down automatically after 15 Seconds.

Note: Please make sure that the Unique² will not be disconnected too early to allow the fan to run until the device has cooled down. This will ensure that no fluid remains in the vaporizer to come out as droplets when the device is switched on next time.

5.4 Control choices

20: Profile/

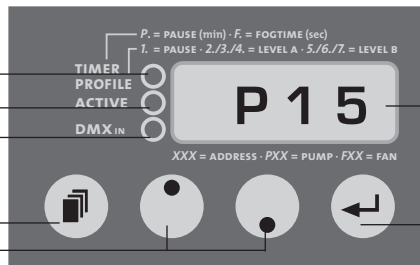
Timer-LED, red

18: Active-LED, green

19: DMX-LED, yellow

14: Mode-button

15: Up/Down-button



17: Led-Display

16: Enter-button

Fig. 1: Adjusting the pump output

5. Operating the Unique 2.1

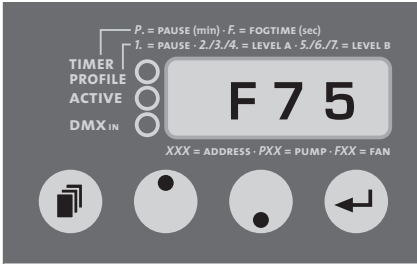


Fig. 2: Adjusting the fan output

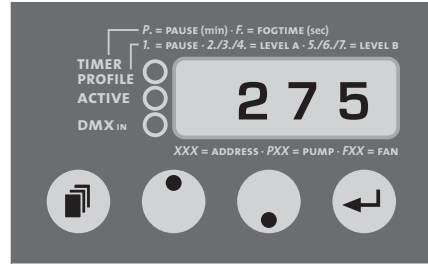


Fig. 3: Adjusting the DMX-start address

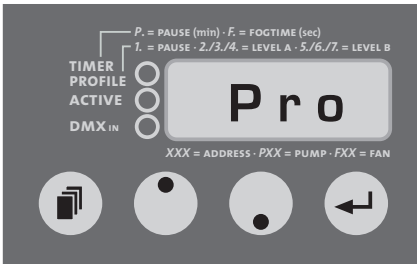


Fig. 4: Changing to the Profile-Mode

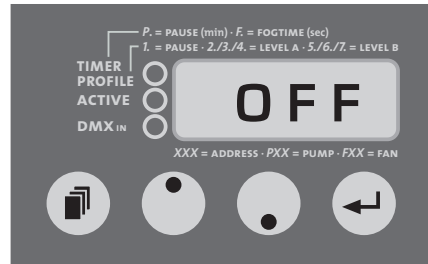


Fig. 5: Switching the device off

You may control the **Unique 2.1** externally through the XLR sockets [2 and 3].

Please note: DMX takes priority. That means: when the machine is controlled via DMX 512 this data takes priority over 0-10V (+) DC and Stand alone operation.

Please note: You can't hold down the Mode-button for scrolling through the Menu. The Mode-button has to be pressed only momentarily. If the Mode-button is pressed more than two Seconds, the machine will change into the Timer-Mode (see point 5.4.5).

An outstanding feature is the adjustable output of the **Unique 2.1**. The pump and the fan can be easily and separately adjusted and regulated in 99 steps via buttons. Any desired effect can be achieved in steps of 1%: from the finest mist to a thick haze, similar to fog. To achieve the thickest effect the pump must run at 99%, the fan at 1%. The finest haze can be achieved with lower pump and higher fan settings. The data can be readjusted whenever you want to.

5.4.1 Operating via DMX 512

Connecting the **Unique 2.1** to a DMX desk, use the XLR socket [2] beside the control panel. As soon as the machine receives a correct DMX signal, the yellow DMX-LED [19] will be lit. **Please note:** The **Unique 2.1** uses two channels on your desk! First Channel = Pump, second Channel = Fan

5. Operating the Unique 2.1

5.4.1.1 Adjusting the DMX start address

- a) Press the Mode-button [14] at the control panel until three figures appear on the LED-display [17] (see Fig. 3).
- b) Adjust the required start address by pressing the Up- or Down-button [15].
- c) Save the start address by pressing the Enter-button [16] once. The start address will now also be saved when you disconnect the machine from the mains supply.

5.4.1.2 Adjusting the pump and fan output

If you run the machine via a DMX desk you can adjust the pump and the fan directly from the desk from 1 to 99%.

The adjusted channel controls the pump, the following one controls the fan.

5.4.2 0 - 10 Volt (+) DC control

Connect the **Unique 2.1** to an analog desk or the cable remote which you can get as an option, using the XLR socket at the back of the machine [3].

Please note: With analog control the pump can be adjusted from the desk and/or the cable remote. The fan has to be adjusted at the machine.

- a) Put the cable from the desk or the cable remote into the XLR socket at the back of the machine [3].
- b) Put the pump up to 99% and adjust the required fan output at the machine (see chapter 4.4.2.1).
- c) With the turnable button on the cable remote or with the fader on the analog desk the pump output can be regulated.
- d) Pressing the On/Off switch at the cable remote starts the haze process. The green Active-LED [18] will be lit.

5.4.2.1 Adjusting the pump and fan output

- a) Press the Mode-button [14] at the control panel until a P and two figures appear on the LED display [17] (see Fig. 1). Put the pump up to 99%.
- b) Press the Mode-button [14] at the control panel until an F and two figures appear on the LED display [17] (see Fig. 2).
- c) Adjust the desired data (1 - 99%) by pressing the Up- or Down-button [15].
- d) The data for the pump can be regulated/adjusted via the turnable button on the cable remote and the fader on your analog desk.

5. Operating the Unique 2.1

5.4.3 Stand alone

The **Unique 2.1** can be used in the Stand alone mode. In this mode all data for the pump and the fan must be adjusted directly at the machine.

5.4.3.1 Adjusting the pump and fan output

- Press the Mode-button [14] at the control panel until a P and two figures appear on the LED-display [17] (see Fig. 1).
- Adjust the desired data (1 - 99%) by pressing the Up- or Down-button [15].
- Press the Mode-button [14] again until an F and two figures appear on the display [17] (see Fig. 2).
- With the Up- or Down-button [15] the fan data can now be adjusted.
- Press the Enter-button [16] once to start the machine. The green Active-LED [18] will be lit.

5.4.4 Haze-Density Control System (HDCS)

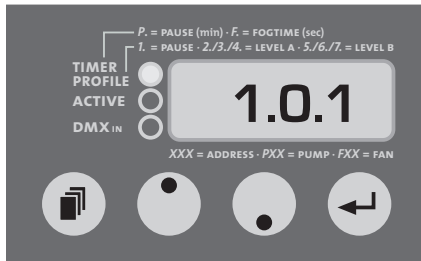


Fig. 6: Adjusting the Pause (Pre-Runtime)

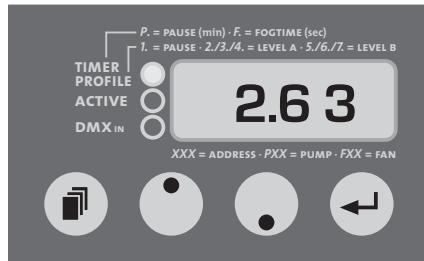


Fig. 7: Adjusting the pump

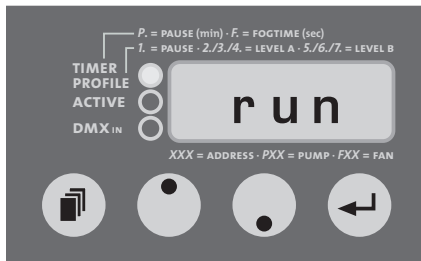


Fig. 8: Start the profile

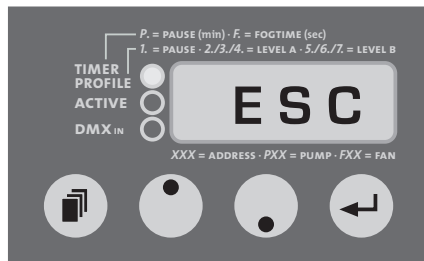


Fig. 9: Quit the profile

5. Operating the Unique 2.1

With the HDCS, an individual profile for a show can be programmed. Two Levels (Level A and B) with different pump and fan values and different run-times can be programmed (Level A = settings 2, 3, 4 / Level B = settings 5, 6, 7). Also a pre-runtime can be programmed in (setting 1) which tells the machine when it should start to run.

For example: The machine shall start to run after 30 Minutes (setting 1). Then the stage should be filled with haze within 10 Minutes. Therefore a high pump and fan output should be adjusted and a time of 10 Minutes (setting 2, 3, 4). After 10 Minutes high output, pump and fan shall go down automatically to a lower step and fill the stage with haze for another hour (setting 5, 6, 7). See diagram on page 15 also.

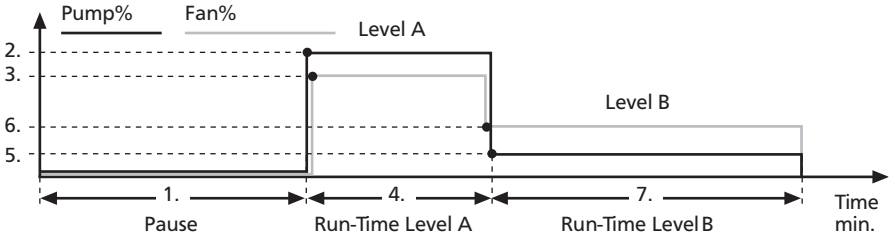
The following Profile settings can be adjusted:

1. Pause (Pre-Runtime)	0 - 99 min	5. Pump (Level B)	1 - 99 %
2. Pump (Level A)	1 - 99 %	6. Fan (Level B)	1 - 99 %
3. Fan (Level A)	1 - 99 %	7. Run-Time (Level B)	0 - 99 min
4. Run-Time (Level A)	0 - 99 min		

5.4.4.1 Using the Profile

- Press the Mode button repeatedly [14], until „Pro“ appears on the display (see Fig. 4).
- Press the Enter button [16] once to switch to the HDCS Menu. The red Timer/Profile-LED [20] will be lit.
- Adjust settings 1 to 7 according to the chart on page 15, using the Up/Down buttons [15] and pressing the Mode button to switch between the settings.
These settings are stored in non-volatile memory. You don't have to run the Profile or press the Enter button in order to „save“ the settings. All settings can be changed as described at any time.
- To start the Profile with the adjusted values, press the Mode button [14], until „run“ appears on the display (Fig. 8), then press the Enter button [16].
The Timer/Profile-LED [20] flashes, indicating that the Profile is running. The green Active-LED [18] lights as soon as the adjusted Pause (Pre-Runtime) has passed and level A has started. The Profile can also be started via an optional radio remote.
- To leave the HDCS menu or quit the Profile, first press the Mode button until „ESC“ appears on the display (Fig. 9). Then press the Enter button [16] once to return to the main menu.

5. Operating the Unique 2.1



5.4.5 Operating the internal Timer

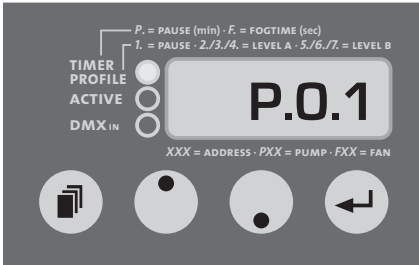


Fig 10: Adjusting the Pause (Wait-Time)

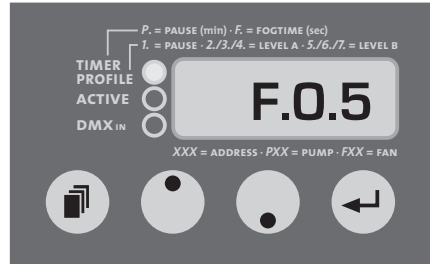


Fig. 11: Adjusting the haze time

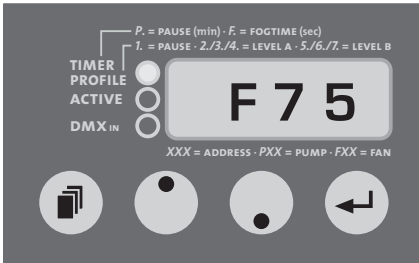


Fig. 12: Adjusting the fan

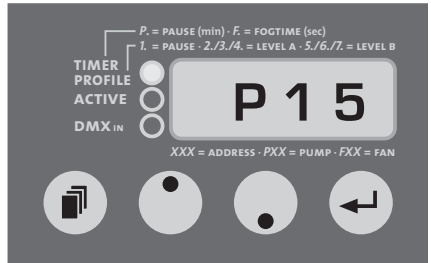


Fig. 13: Adjusting the pump

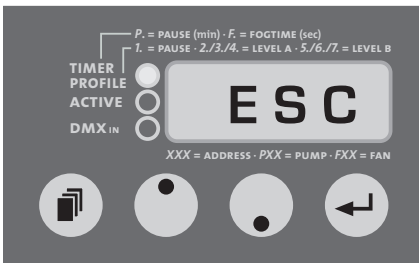


Fig. 14: Quit the Timer-Mode

5. Operating the Unique 2.1

With the internal timer, the haze time and wait time can be adjusted in Minutes (0.1 - 99), the pump and fan output can be adjusted in per cent (0 - 99).

To start the Timer-Mode, press and hold the Mode button [16] for more than 2 Seconds. The red Timer/Profile-LED [19] will blink as soon as the machine has switched to the Timer-Mode. As long as the timer is in operation, the red Timer/Profile-LED blinks.

The adjusting of the output, haze time or wait time is the same as in the Standard-Menu. This means you have to press the Mode button repeatedly until you reach the required function.

With the Up/Down buttons you can adjust the required functions, then press the Enter button to start the timer. Please note that P and F control Pump and Fan, whereas P. and F. control Pause time and Haze (Fog) time (Figs. 10 - 13).

The timer cycle starts with the time shown on the display when you press the Enter button (i. e. P.xx = Starts with wait time, F.xx = Starts with haze time). The timer cycle will not start if you press the Enter button while the pump or fan output setting is shown on the display.

You can switch back to the Standard-Menu by pressing the Mode button [14] for more than 2 Seconds or by pressing the Mode button repeatedly until „ESC“ shows on the display and then press the Enter button once.

5.4.5.1 Auto start

If the timer is in operation and you disconnect the machine from the mains cable, the **Unique 2.1** will re-start in the Timer-Mode as soon as it's reconnected to the mains. To stop this press the Mode-button [14] for more than 2 Seconds or by switching to „ESC“ in the Timer-Mode and then press the Enter-button.

5.5 Wiring of the sockets

5pin XLR (DMX):

Pin 1 = Ground, Pin 2 = DMX -, Pin 3 = DMX +

3pin XLR (analog):

Pin 1 = Ground, Pin 2 = 0-10 V + DC in, Pin 3 = 12 V + DC out, max. 50 mA

6. Cleaning, Care and Maintenance

- Remove the filter, which protects the fan against dust and dirt, from time to time and clean it.
- After several hours of operation, some droplets of condensation will have formed at the nozzle. That is normal and not a malfunction.
Please note: Remove fluid droplets at the nozzle only when the machine has completely cooled off. During operation the nozzle gets very hot!
- Do not let the **Unique 2.1** run without any fluid as the pump will run dry.
- Check the state of the fluid filter [12] from time to time and clean or replace it when necessary.
- PLEASE NOTE: The vaporizer of our machines does not have to be cleaned! Cleaners, available on the market, can damage the vaporizer! We cannot grant warranty in this case.

7. Troubleshooting

- Trouble:** The pump runs, but little or no haze is produced.
Cause: The pump sucks no or too little fluid.
- Check whether the canister is empty
 - Check whether the brass collar is properly connected with the brass coupling
 - Check whether the fluid filter in the canister is clogged
 - Check whether the fluid tube is twisted or defective
- Trouble:** The yellow LED at the machine does not light up (only when running via DMX)
Cause: Connection from the machine to the desk is faulty.
- Check whether the plug is plugged in correctly
 - Check whether the cable is defective
 - Check whether the DMX start address is adjusted correctly
- Trouble:** During operation the **Unique 2.1** fail to work for a long time
Cause: The overtemperature protection device is activated.
- Check whether the fan is clogged

7. Troubleshooting

Trouble: E-4 appears on the LED display
Cause: The machine is getting too hot. The heating switches off and the machine cools down.
Solution: Disconnect the machine from the mains supply for a moment and then re-connect it.

E - 4

Trouble: E-8 appears on the LED display
Cause: The vaporizer is clogged.
Solution: Please send the machine to the service-station or your local dealer.

E - 8

Trouble: E-1 appears on the LED display
Solution: Please send the machine to the service-station or your local dealer.

E - 1

8. Specifications

Procedure:	Haze generator without compressor
Power requirement:	1500 Watt
Voltage:	230 V/ 50 Hz, also available with 120 V/ 60 Hz and with 90 V/60 Hz
Warm up time:	approx. 60 seconds
Fluid tank capacity:	2 litre
Internal fan:	>6000 l/min.
Airborne noise emitted:	>70 dbA
Haze output:	adjustable in 99 steps, 1%-steps
Haze density:	variable
Haze duration:	continuous output
Control:	DMX 512 0 - 10 V analog Timer Stand alone-Mode Radio remote (option) XLR-remote (option) Microprocessor controlled
Temperature control:	Heat exchange module with thermal cut-out
Overheating protection:	Heat exchange module with thermal cut-out
Dimensions (L x W x H):	47 x 25 x 25 cm (18.5 x 9.8 x 9.8 in)
Weight incl. canister:	14 kg (30.8 lbs)

Manufactured for:

Look Solutions GmbH & Co. KG • Bünteweg 33 • D - 30989 Gehrden • www.looksolutions.com

9. Warranty conditions

For the haze machine Unique 2.1 Look' guarantee is:

1. Free of charge, subject to the following conditions (No. 2 - 6) we will repair any defect or fault in the unit if it is caused by a proven factory fault and has been advised immediately after appearance and within 24 month of delivery to the end user. Insignificant deviations of the regular production quality does not guarantee replacement rights, nor do faults or defects caused by water, by generally abnormal environment conditions or Force Majeure.
2. Guarantee Service will be done in the following way: Faulty parts will be repaired or replaced (our choice) with correct parts. Faulty units have to be brought to us or our service centres or to be sent to us or our service centres at customer's expenses. The invoice and/or receipt showing the purchase date and the serial number has to come with the faulty unit, otherwise this will not be guarantee service. Replaced parts become our property.
3. The customer loses all rights for guarantee services, if any repairs or adjustments are done to the units by unauthorized persons and/or if spare parts are used which are nor approved by us. The right of guarantee service is also lost if fluids other than the original „UNIQUE-fluid“ have been used or if units are sent to us with full fluid bottles. Also non compliance with the instructions in this manual or mistakes by incorrect handling/treating of the machine will lead to a loss of guarantee and also any faults and damages caused by undue force.
4. Certain parts of the machine are „consumable parts“ and are not covered by the warranty.
5. Guarantee services do not cause an extension of the guarantee time or the start of a new guarantee time. The warranty for replaced parts ends with the guarantee time of the whole unit.
6. If a defect/fault can not be repaired by us in a satisfactory time, we will, within 6 months after sale of the unit, on choice of the customer, either:
 - replace the whole unit for free or
 - refund the lesser value or
 - take back the whole unit and refund the purchase price, but not more than the usual market price at the time of the refund.
7. Further claims, especially for damages, losses etc. outside the unit are excluded.

Other guarantee regulations may be valid outside Germany. Please check with your dealer!

If you should send the unit for service, do not forget to remove any liquid from the fluid bottle.

