



User manual base • low • pro



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1. Introduction

The base • low • pro from hazebase is a CO² low fogger like no other. Create amazing low lying fog when used with either the hazebase base • highpower foggers.

2. Safety Instructions



Damages are apparent by improper use or non-compliance with the operating instructions in their own responsibility of the user. Structural changes to safety-critical components on the machine are strictly prohibited. If you open the appliance yourself, so the manufacturers warranty void. Please also see the attached warnings and instructions on the device. Use of other fluids will void the warranty on the parts that come into contact directly with the fluid.

2.1 Scalding Hazard and General Safety

- 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 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 to all flammable, combustible objects and objects sensitive to heat.
- Glycol is a chemical alcohol and burns with a slightly bluish, almost invisible flame. Never point the fog at strong sources of ignition like fire or pyrotechnic effects.
- During operation small amounts of hot fluid-drops may emerge Therefore you should make sure, that these do not become a danger to anyone.
- 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.
- Never open the machine and leave the machine unattended when connected to a power supply.
- The visibility has to be more than 2 m in rooms where people walk around.
- Fog may activate smoke detectors.
- Spilled fluid or splashed fluid droplets can cause slip hazard. Mop up the fluid and dispose of it according to regulations. hazebase fog liquid is an environmentally safe product and it can be recycled biologically.

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 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 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!

2.2 Working with CO²

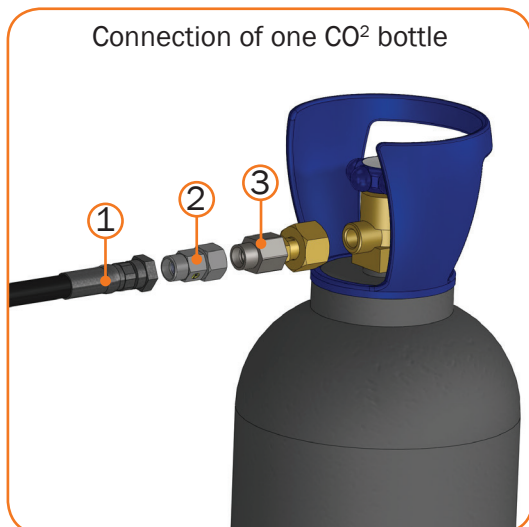
The handling with CO² carbon dioxide as well as the connection and commissioning is necessarily carried out by trained technical personnel .

Is the carbon dioxide concentration in the room is too high , threatening suffocation . The maximum allowable workplace concentration is 5000 ml / m³ MAK value . Please observe the regulations for handling carbon dioxide could be different in other the country.

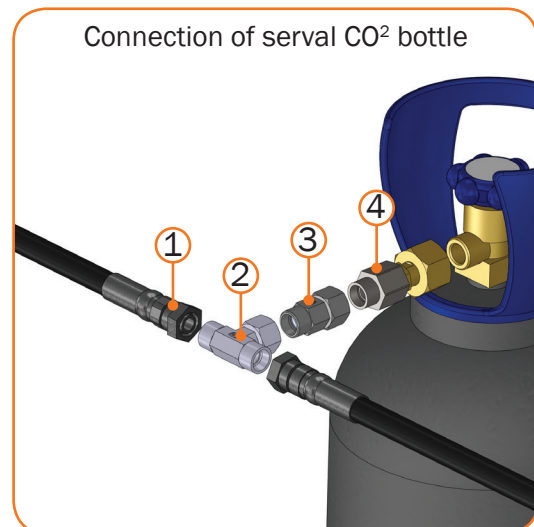
The hose supplied is designed 1 1/4" right - male - threaded for connection to a W x 21.8 . If the CO² bottle have a different threaded connection , so an appropriate adapter must be used.

3. Commissioning of base • low • pro

3.3 Connection diagram of the CO² bottles



- 1) CO² hose 1.5m
- 2) Inline Filter
- 3) CO² bottle connection Europe



- 1) CO² hose 1.5m
- 2) CO² T-fitting
- 3) Inline Filter
- 4) CO² bottle connection Europe

If you need fittings for your CO² bottle, see chapter 11 for more information about accessories.

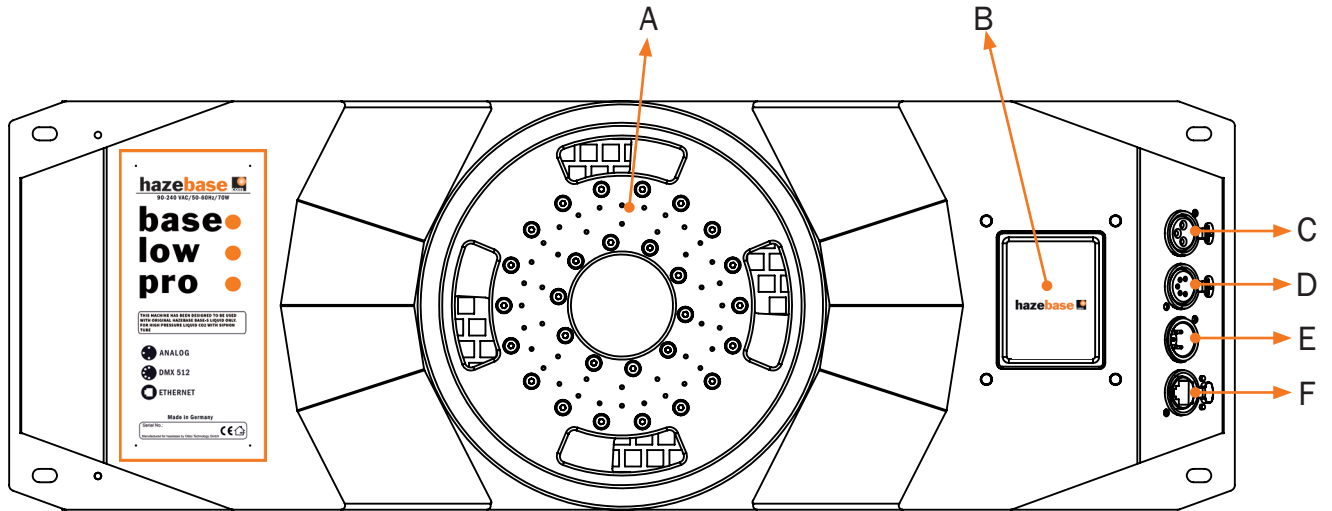
3.1 Selecting of the location

The location in which the base • low • pro is to be operated must be dry:

- free from dusty or polluted air
- free from vibrations
- located on an non-flammable place or surface
- Well-ventilated with fog-free air keeping the ambient operating temperature between 5 °C and 45 °C and the relative air humidity below 80%

3.2 Device labeling

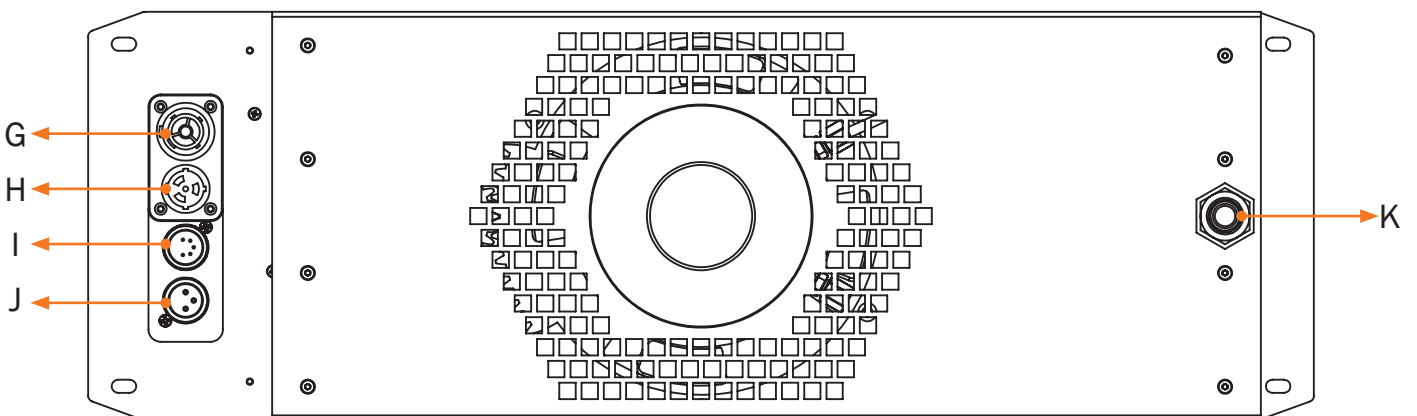
front view:



- A) Hose 200mm , mixing chamber
- B) Touchscreen operation unit
- C) 3-pin-XLR analog output

- D) 5-pin-XLR DMX output (DMX512)
- E) 5-pin-XLR DMX input (DMX512)
- F) Art-Net RJ45 Ethernet

rear view:



- G) PowerCon Power-Out
- H) PowerCon Power-In
- I) 5-pin-XLR DMX input (DMX512)
- J) 3-pin-XLR analog output

- K) CO² connection

3.4 First Steps

1. Connect the DMX output of the fog machine via 5 -pin XLR DMX cable (I) of the base • low • pro. If your fogger has a PowerCon connector exhibit (max . 3 kW / 1kW for US) you can connect this to the power output (G) of the base • low • pro.
2. Connect the supplied security hose to the CO² bottle and connect connector (K) .

Safety Instructions:

Before connecting the connecting tube check whether all threads and fittings are clean. To ensure that no CO² can escape uncontrolled, tighten screw with a suitable tool.

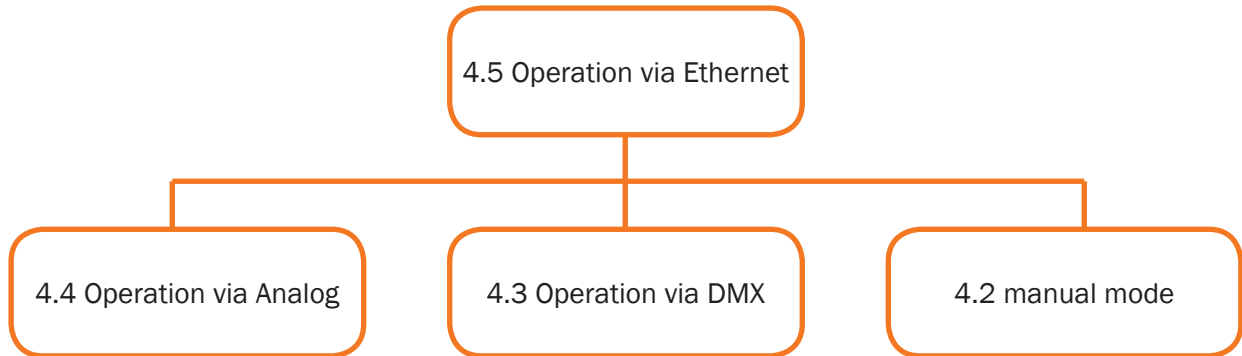
3. Open the valve of the CO² bottle completely
4. The supplied PowerCon cable to connector (H) plug. Is the plug rotating rightward until it snapped.
5. Insert the plug in an sockets connection.
6. In order for proper operation of the base • low • pro make sure that the connected fogger has programed the DMX start address „001“.
7. Now the base • low • pro is ready to start.

Wait until the connected fogger is fully heated. This takes about 7min at Hazebase foggers. For more information, please refer to the manual of your fog machine.

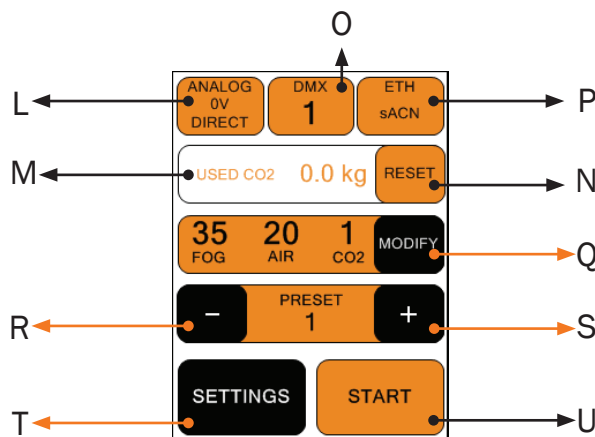
4. Operating the base • low • pro

4.1 Overview operating modes

The following diagram illustrates the different operating modes of the base • low • pro. These are described in detail in the following chapters. The manual mode is overwritten by any other . Operation via Ethernet overrides everything else and therefore is in the picture at the top.



After turning on the base • low • pro the hazebase logo appears on the display (B). The following figure shows the main menu of the base • low • pro.



L) Display analog input: show the selected mode and current voltage.

P) Ethernet display: shows which protocol is selected and whether the base • low • pro is controlled per over Ethernet.

M) Current CO² consumption base • low • pro

Q) Current output values of fog , air and CO² via you can change this via MODIFY. (See section 4.2)

N) RESET value of (M) when a new bottle was attached. This is only a guideline.

R and S) Selection of PRESET in manual mode

O) Display DMX : indicates whether DMX is active and which address is selected.

T) Open the settings menu

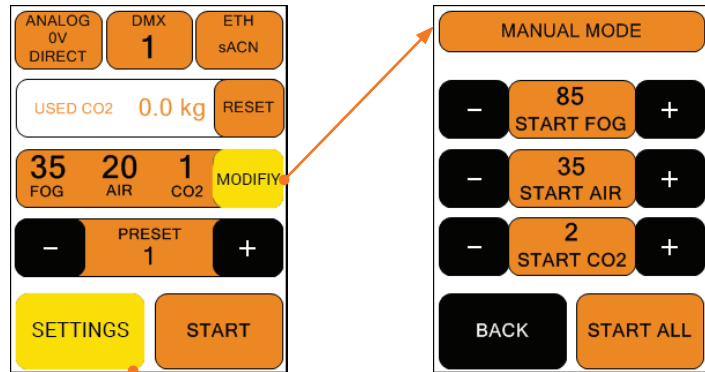
U) Manual start of the fogging process

4.2 Manual Mode

To change the manual mode, the values of fog , air and CO², click on the main menu MODIFY.

Press adjust to the PLUS or MINUS to the desired value.

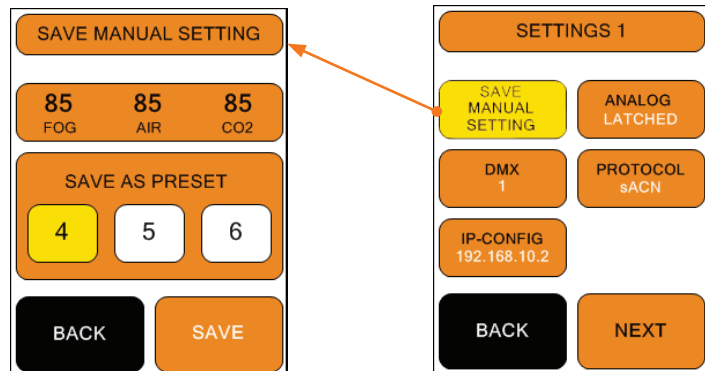
Then press START ALL to start the machine with the choosen values . The button START ALL changes to operate in STOP ALL and stops the entire fog process when it is pressed.



Save PRESETS

First, set as described above using MODIFY the desired values .

To save a preset, click on the main menu SETTINGS, then select SAVE MANUAL SETTINGS. There you can assign the values to a preset . By clicking on the SAVE button to save the settings.



PRESETS

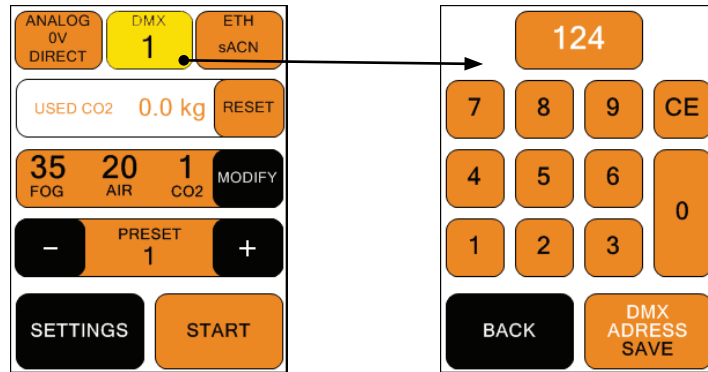
There are 6 presets available. Three fixed and three user-definable. The following table shows the pre-defined presets .

Preset	Values	effect
1	Fog: 35, Air: 20, CO ² : 1	~150m ² up to 10cm in 1 min.
2	Fog: 45, Air: 30, CO ² : 2	~150m ² 15cm in 1 min.
3	Fog: 50, Air: 30, CO ² : 3	~150m ² 20cm in 30sec.
4	user-definable presets	
5		
6		

4.3 Operation via DMX

From the main menu button DMX or under SETTINGS - > DMX . The right screen will showing up.

Here the DMX address can be entered. With DMX ADDRESS SAVE the DMX address will be stored. With BACK you going back to the main menu without saving.



DMX channel allocation

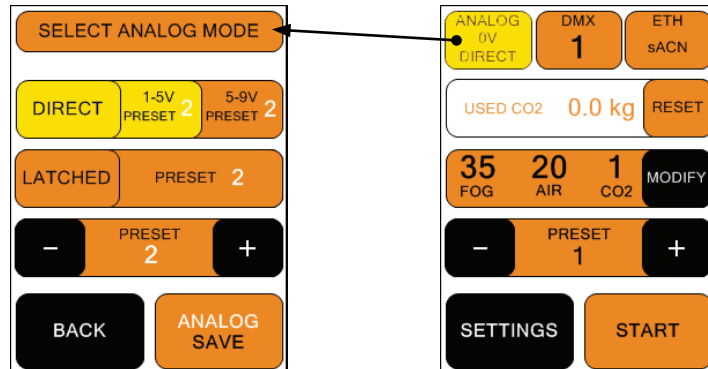
The base • low • pro has 4 DMX channels. The exact channel assignment is shown in the following table .

Channel	DMX-Values	description
1	0 - 255	Fog by passing on fogger
2	0 - 255	control air
3	0 - 64	no CO ² output
	65 - 129	1kg/min CO ² output
	130 - 194	2kg/min CO ² output
	195 - 255	3kg/min CO ² output
4	0 - 255	Fans will be passed on to the connected DMX fog machine.

Connect the base • low • pro on your DMX network and control it with your DMX console faders.

4.4 Operation via Analog

If the analog output (0 to 10V) of the base • low • pro above 1V machine to be controlled via the analog output . Condition is that no DMX and Ethernet is still active.



Press the ANALOG Button top left in the main menu or select SETTINGS to ANALOG button - > ANALOG to enter the Analog menu .

The analog mode is divided into two modes:

1. DIRECT

This mode is for XLR Remote with input voltages between 1 and 5 V or 5 and 9V which can be selected via the button DIRECT as a fixed Preset.

Press PRESET to 1-5V with + and - to select the 4th line the preset . 5-9V PRESET key to this set analogously.

The lower half of the rotary knob on the XLR-Remote is about 1 and 5V ; 5 and 9V the top Half.

2. LATCHED

This mode is an on and off by brief voltage pulse. Press PRESET in 3rd line and adjust with + and - set in 4th line to select values.

With ANALOG SAVE the settings will be stored. With BACK you going back to the main menu without saving.

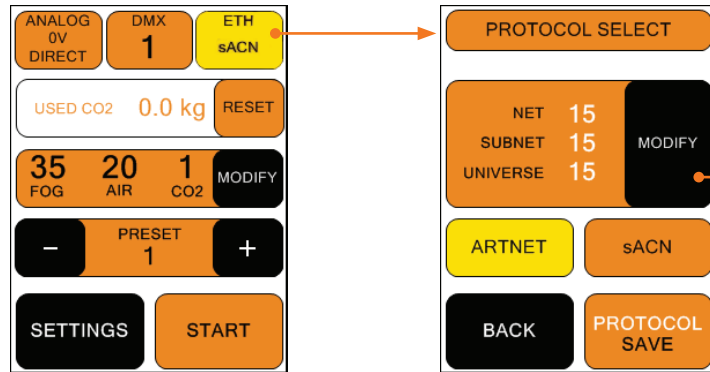


If the latched mode on the base • low • pro is activated you must be disabled in the latched mode. Switching to another mode is not possible.

4.5 Operation via Ethernet

ARTNET

Press ETH on the main menu to select a protocol. You can access this screen from SETTINGS- > PROTOCOL.



You have the option to adjust the network, subnet and universe with MODIFY.

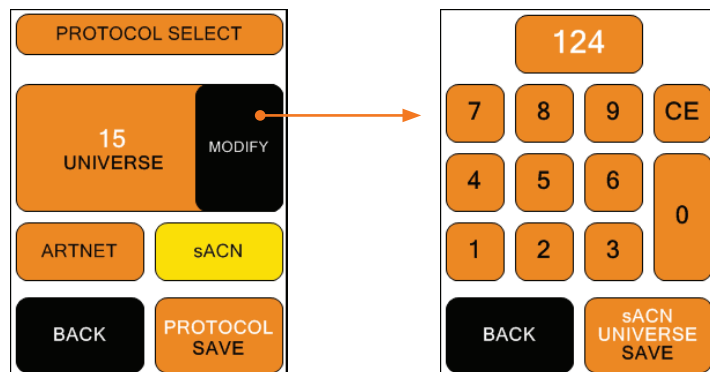
Select NET, SUBNET or UNIVERSE to change the value. Press CE and enter the new value. With ARTNET CONFIG SAVE you can save the set values with BACK to return to the previous screen without saving changes.

According to the standards for DMX and ARTNET is a universe of 512 DMX channels. A subnetwork comprises 16 Universes and a network are 16 subnets. There are 128 networks.



sACN

Select sACN. With PROTOCOL SAVE save your settings and BACK returns you to the previous screen.

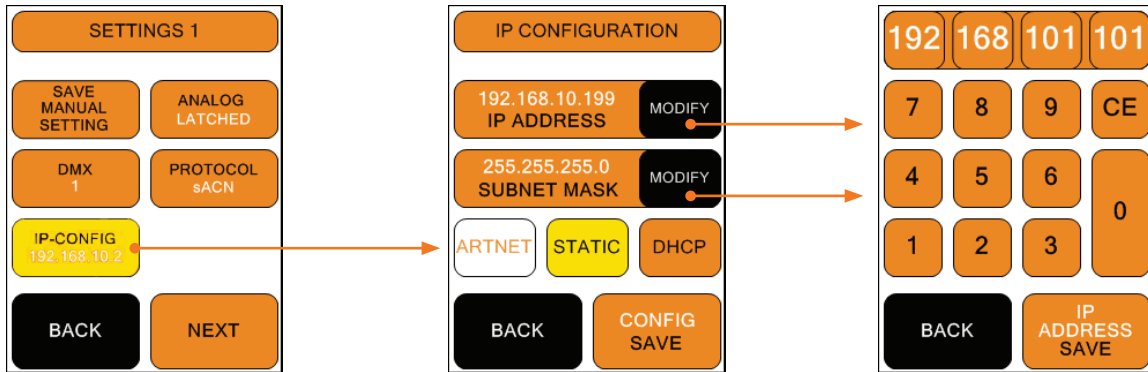


With MODIFY you have the option to set the universe.

Press the CE button on the keyboard screen and enter the desired universe. With sACN UNIVERSE SAVE you can save your settings. With BACK you get to save the previous screen without settings.

Make sure that in both cases the base • low • pro has a valid network address and subnet mask configured. You can check this check SETTINGS- > IP CONFIG and adjust if necessary. A detailed description follows on page 12

4.6 Setting up the IP address



To set the IP address and subnet mask for your network , press in Main Menu SETTINGS- > IP CONFIG.

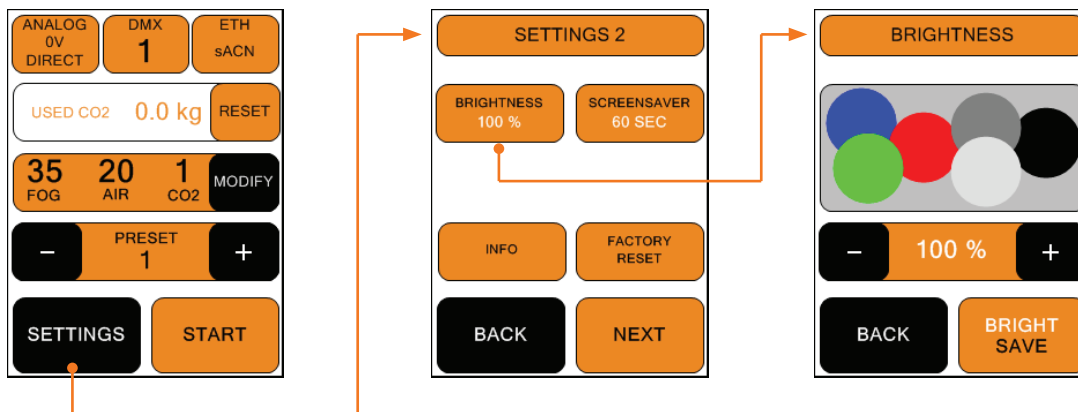
You can select STATIC or DHCP on the screen IP CONFIGURATION if you want to use a static network address or a dynamically assigned (DHCP).

To get IP address and subnet mask for your device from a DHCP server in your network select DHCP.

If STATIC is selected , you can set using MODIFY and right keyboard values . If necessary ask your network administrator which network address to use.

If ARTNET standard is used in your network select first of all STATIC and then press ARTNET. The IP address will formed from the immutable and MAC address of the device and an OEM code . The subnet mask is set to 255.0.0.0 .

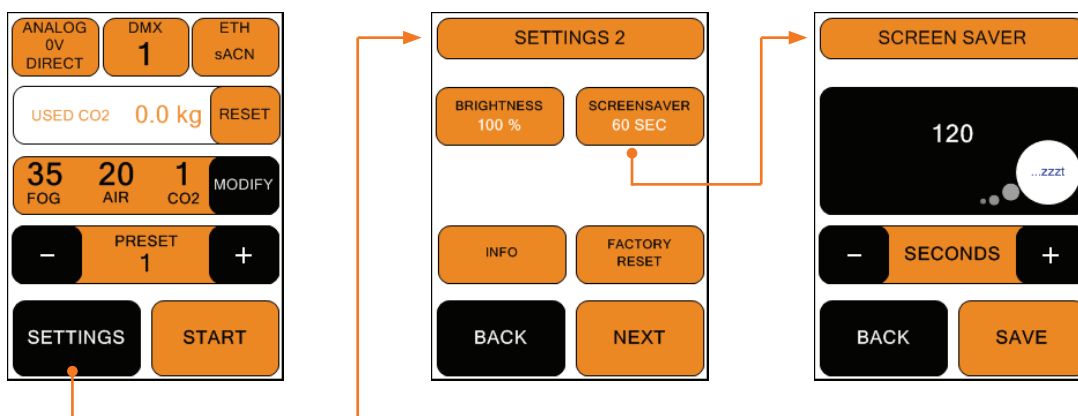
5. Adjust brightness



In order to adjust the screen brightness of the base • low • pro click on main menu
 SETTINGS - > NEXT - > SETTINGS 2 - > BRIGHTNESS

You can adjust the backlight. Press + or - to change the value. With BRIGHT SAVE save your settings. With BACK you get back to the previous screen without saving.

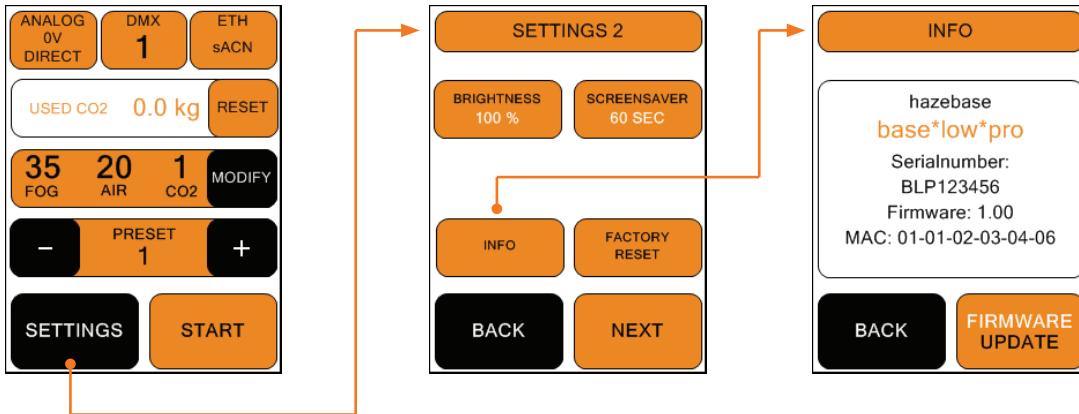
6. Adjust screensaver



To set the screen saver of the base • low • pro click on main menu
 SETTINGS - > NEXT - > SETTINGS 2 - > SCREENSAVER

Here you can customize the duration of the screen saver. Press + or - to change the value. Click on SAVE to save your settings. With BACK you get back to the previous screen without saving.

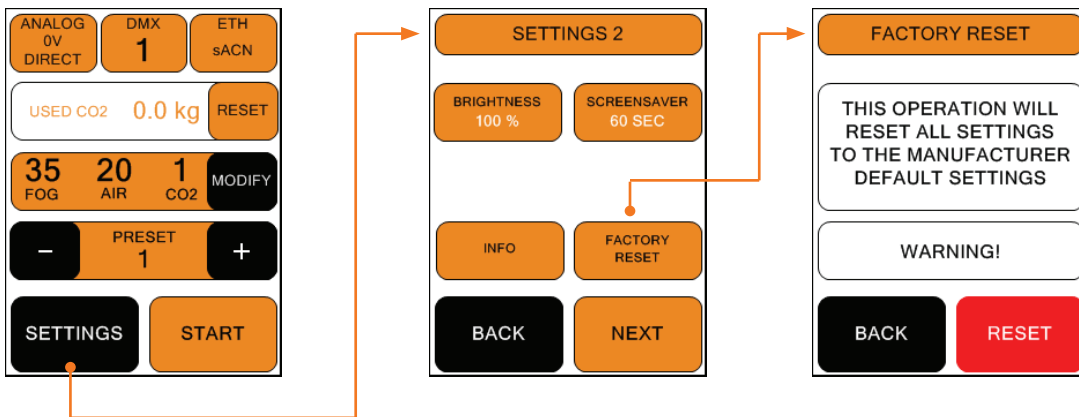
7. Show device information



To view the device information of the base•low•pro click on main menu
 SETTINGS -> NEXT -> SETTINGS 2 -> INFO

Hier erhalten Sie Geräteinformationen des base•low•pro. With FIRMWAREUPDATE the update process can be released. Please inform yourself on the hazebase website for new firmware versions. With BACK you get back to the previous screen without saving.

8. Factory Reset



To restore the factory settings of the base•low•pro click on the main menu
 SETTINGS -> NEXT -> SETTINGS 2 -> FACTORY RESET

Here you can restore factory settings. With BACK you get back to the previous screen without saving. RESET performs the restore the factory settings.

9. Scope of Delivery

You package from hazebase with your base•low•pro has the following items included:

- base•low•pro
- CO² securityhose 5m
- distributionhose 10m
- base•highpower fog machine
- Amptown Flightcase

For the best results of the base*low*pro we recommend to use the base*S.

- base•S quick smoke liquid
- base•M medium long lasting
- base•L long lasting dust
- base•XL extrem long lasting

10. Technical data

base•low•pro

Procedure:	CO ² cooling unit for CO ² with riser
Power requirement:	70 Watt
Voltage:	90 -240V AC with PowerCon True1
Cooling steps:	adjustable in 3 steps
Working period:	continuously
CO ² consumption:	1,2 or 3 kg / min
Control:	DMX512, 0-10V analog, Ethernet, stand-alone

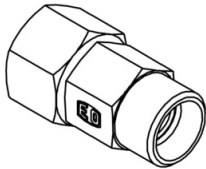
base•highpower

Procedure:	vaporizing fog generator
Power requirement:	2600 Watt
Voltage:	230 V/ 50 Hz
Warm up time:	approx. 7 min
Fluid consumption:	at max. output 240 ml/min at cont. output 120 ml/min
Fluid tank capacity:	5 Liter
Fog output	adjustable in steps à 1% (0-99)
Fogging time:	at 100% output approx. 60 sec. at < 50% output continuous output
Control:	DMX 512, 0 - 10 V analog, internal Timer, Stand alone mode, Radio remote (Option)

For more information of base•highpower please read at the specified manual.

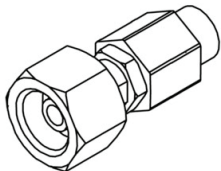
11. Accessories

The following connection accessories are for CO² bottles. Please contact hazebase for price information.



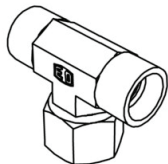
Inline Filter

Part No. 59069
material: steel
wrench size: 22



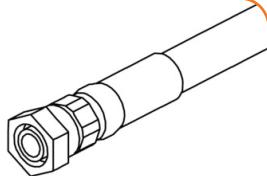
CO² bottle connection Europe

Part No. 59145
material: steel / brass / PTFE
wrench size: 22



CO² T-fitting

Part No. 50304
material: steel
wrench size: 22



CO² hose 1.5m

Part No. 50298
Schlüsselweite: 22

12. Warranty conditions

For the fog machine base • low • pro hazebase 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 not done to the units by unauthorized persons and/or if spare parts are used which are not approved by us. The right of guarantee service is also lost if fluids other than Original hazebase fluids 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.

13. Contact

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