Operating manual





VIPER DE LUXE



a Look Solutions product

Set of Equipment supplied

- 1 Viper 2.6 or Viper deLuxe
- 1 tank lid with Quick Connector
- 1 manual

Please check whether all the products you ordered are supplied.

Original operating manual, version 05/2021

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1. Introduction

The **Viper 2.6** is a very powerful fog generator. It unites the current digital technology with proven technique and power.

New features guarantee a much more simple operation – place and fog, reducing the amount of time needed to set up the machine.

An external fan with one phase and max. 800 watts scan be connected to the machine.

2. Safety instructions

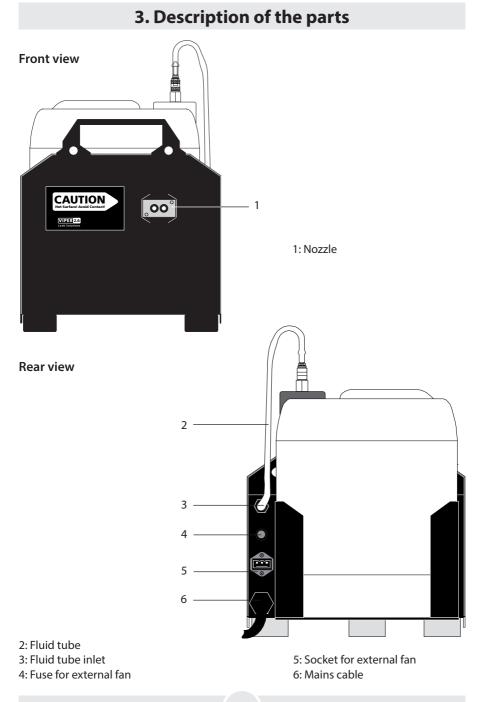
A fog machine is not a toy!

- 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 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 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.
- It is only allowed to fly/hang the machine by using the original hanging set.
- The visibility has to be more than 2 m in rooms where people walk around.
- 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.
- 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.

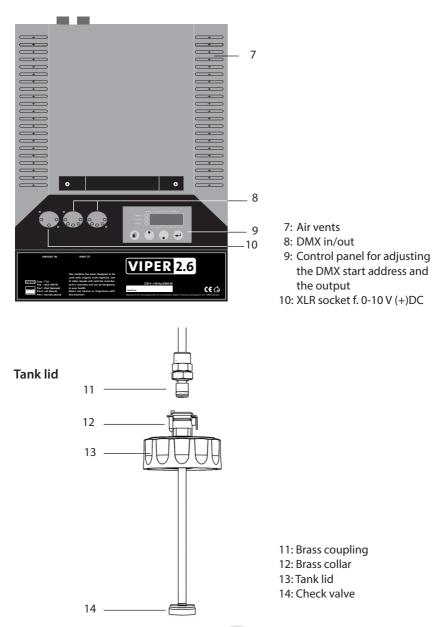
No case has so far been reported in which a sound human being has been harmed because of using our device to produce artificial fog. However, this can only be guaranteed if the professional fog generators are used accordingly, i.e. at the correct vaporization temperatures as well as with the correctly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

Top view



4. Fluid

4.1 General Notes

The Viper 2.6 has been designed to be used with Look fog fluids.

The following Look fog fluids are available:

Quick-Fog	thick, quick disappearing fog fluid
Regular-Fog	thick, long lasting fog fluid
Slow-Fog	thick, extremely long lasting fog fluid

If fluids have been used other than Look fog fluids we can't grant warranty on parts that have been in contact with the fluid.

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 can

- Disconnect the fluid tube from the lid by retracting the brass collar [12] and removing the coupling [11].
- Remove the can from the tank housing of the Viper 2.6
- Unscrew the lid [13] of the empty can and screw it onto the new container.
- Place the full can into the tank housing.
- Push the brass coupling [11] into the brass collar [12] until you hear a click. The brass collar is now locked firmly.

5. Operating the Viper 2.6

5.1 Selecting the location

The location in which the Viper 2.6 is to be operated must

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

The **Viper 2.6** is a powerful fog generator, producing every desired effect from a tiny puff of smoke to the thickest fog.

Digital technology makes fine adjustments of the pump possible. In steps of 1% the output can be adjusted from 1-99%.

5.2 Putting into operation

a. Connect the **Viper 2.6** to the mains supply. Make sure the correct voltage is selected (230 V/50 Hz). A "P" and two figures appear on the display.

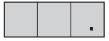


- b. After a warm up time of approx. seven minutes the **Viper 2.6** is ready to start. The green Ready-Led [22] blinks if the working temperature is reached. As soon as the final temperature is reached, the LED illumates permanently.
- c. Adjust the required output via the control panel and press the Enter-button [18] once to start the fogging process (see point 5.4).

5.3 Switching the device off

a. Press the Mode-button [16] til "OFF" appears on the display. After 15 seconds the machine will switch off automatically. On the right bottom edge of the display a red decimal point appear.

You can also switch off the machine within these 15 seconds by pressing the Enter-button [18].



b. When you switch off the DMX signal, the machine will be switched off automatically after 15 seconds.

Control panel (Standard-Menu)

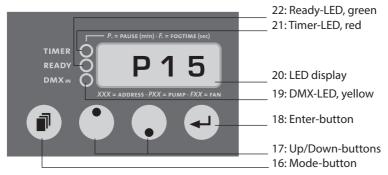


Abb. 1: Display shown at adjusting the pump output



Abb. 2: Display shown at adjusting the DMX start address

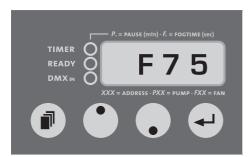


Abb. 3: Display shown at adjusting the fan output



Abb. 4: Display shown at switching off the device

5.4 control choices

Please note: The Mode-button can't be used for scrolling through the Menu. The Modebutton has to be pressed momentarily. If the Mode-button is pressed more than two seconds, the machine will change into the Timer-Mode (see point 5.5).

5.4.1 Using a fan

A fan with one phase and max. 800 Watt can be connected to the machine. Therefor you need a special plug (Hirschmann Stas 3) which you can get from your local dealer.

If you want to connect a fan with more than one phase you need a capacitor that can be build in the machine afterwards. Please ask your local dealer for details and specifications!

Connect the plug of the fan to the socket [5] at the back of the machine.

The fan can now be controlled as described (see point 5.4.2 to 5.4.4).

The fan is already connected to the Viper deLuxe and can be controlled as described on the following pages.

The fan can be controlled separately and can be used as a wind machine.

You may control the Viper 2.6 externally through the XLR sockets [8 and 10].

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

5.4.2 Operating via DMX 512

Connecting the **Viper 2.6** to a DMX-desk using the 5pin XLR socket [8] on the back of the machine. As soon as the machine receives a correct DMX signal, the yellow DMX-LED [19] shines.

Now the pump and the fan can be adjusted via the desk.

Please note: If a fan is connected to the machine, the **Viper 2.6** uses two channels at your desk. Channel 1 = Pump, Channel 2 = Fan.

5.4.2.1 Adjusting the DMX start address

- a) Press the Mode-button [16] at the control panel, until three figures will appear on the LED display [20].
- b) Adjust the requested start address by pressing the Up/Down-buttons [17].
- c) Save the start address by pressing the Enter-button [18] once. The start address will also be saved when you disconnect the machine from the mains supply.

5.4.3 0 - 10 Volt (+) DC control

Connect the **Viper 2.6** to an analog desk or to the cable remote (available as an optional extra), using the 3pin XLR socket [10] at the back of the machine.

Please note: With analog control the pump can be adjusted from the desk and/or the cable remote. The fan has to be adjusted directly at the machine. The pump should be preadjusted at 99% at the machine.

- a) Connect the cable of the desk or the cable remote to the 3pin XLR socket at the back of the machine [10].
- b) Adjust the pump level at 99% at the machine. The knob on the cable remote or the fader on the analog desk will now control the level of the pump.
- c) Pressing the On/Off switch at the cable remote starts the fog process.

To adjust the fan output

- a) press the Mode-button [16] until a "F" and two figures appear on the display [20].
- b) Adjust the fan output with the Up/Down-buttons [17].

5.4.4 Stand alone

The **Viper 2.6** can be used in the Stand alone mode. In this mode the control of the pump and the fan must be adjusted at the machine.

- a) Press and release the Mode-button [16] until a "P" and two figures appear on the display [20].
- b) Adjust the pump output with the Up/Down-buttons [17] and press the Enter-button [18] once to start the fogging process.

The machine now produces fog until the Enter-button is pressed again.

The output can be changed during the fogging process.

To adjust the fan output

- a) press the Mode-button [16] again, until a "F" and two figures appear on the display [20].
- b) Adjust the fan output with the Up/Down-buttons [17].

5.4.5 Control via Radio remote

A radio remote is available as an option. It will be delivered with a 3pin XLR plug.

Connect the receiver of the radio remote to the machine, using the 3pin XLR socket [10] on the back of the machine.

Adjust the requested pump output at the machine (see point 5.4.4).

Press and hold the first button at the transmitter of the radio remote as long as you want fog to be produced (see manual "Radio remote").

Control panel Timer-Menu (the red Timer-LED [21] shines)



Adjusting of the output/pump in steps of 1% (1-99%)



Adjusting of the wait time in minutes (0.1-99)



Adjusting of the fog time in seconds (1-99)



Escape to switch back to the Standard-Menue with the Enter-button

5.5 Operating the internal timer

With the internal timer the "fog time" and "wait time" as well as the output can be adjusted.

The output of the fan has to be adjusted in the Standard-Menue and can't be changed in the Timer-Menue.

To start the Timer-Mode, press and hold the Mode-button [16] for more than 2 seconds. The red Timer-LED [21] shines as soon as the machine has switched to the Timer-Mode. As long as the timer is in operation, the red Timer-LED blinks.

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

With the Up/Down-buttons you can adjust the output (Pxx), fog time (F.xx) and wait time (P.xx), then press the Enter-button to start the timer.

The timer cycle starts with the time last shown on the display (P.xx = Starts with wait time, F.xx = Starts with fog time).

You can switch back to the Standard-Menu by pressing the Mode-button [16] for more than 2 seconds or by switching to "ESC" (Escape) in the Timer-Mode and then press the Enter-button.

5.5.1 Auto start

If the timer is in operation and you disconnect the machine from the mains cable, the **Viper 2.6** will re-start in the Timer-Mode as soon as it's reconnected to the mains. To stop this press and hold the Mode-button [14] for more than 2 seconds or switch to "ESC" in the Timer-Mode and then press the Enter-button.

5.6 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

- Ensure the air vents [7] are not clogged by dust. If necessary remove the dust.
- Take care that the machine can not get overheated.
- Do not run the **Viper 2.6** without any fluid, as the pump will run dry.
- Wipe up spiled Fluid immediately. Moisture also fluid can destroy the electric of the machine.
- Check the state of the air valve filter from time to time and clean or replace it when necessary. When frequently using the same fluid can it should be cleaned thoroughly before adding new fluid. This reduces the chances of the machine clogging up.
- If you install the Viper 2.6 make 100% shure that a permanent fog-free air supply for the unit is guaranteed. Cooling air with too high fog concentration (very often in Clubs and Discos) can condense inside the machine and cause moisture damage.
- For cleaning the surface of the device use a suitable, solvent-free cleaner.
- 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

The fog machine **does not fog**

- Check external control signals
- Check mains supply
- Check fluid tank (empty?)
- Check for correct connections at the fluid bottle
- Check for fluid in the fluid tube
- Check if fluid filter is clogged
- Check that pump setting on the machine is >1

The fog machine fogs uncontrollably

- Check mains supply
- Check unit for moisture (moisture inside the machine, especially on the PCB can cause fogging)

The fog machine switches off suddenly

• The "Temperature cutout" has switched off due to overheating. Remove external heat source (for instance projector shining right onto the housing) and/ or make sure sufficient fresh air supply. After 15 to 30 minutes the unit should switch back to "on" again.

Loud droning sound during fogging

- The pump is running dry. Avoid this absolutely!
- Refill (or better: replace) fluid bottle
- Double check connection fluid tube and fluid bottle.

E-4 appears on the LED display

 The machine is getting too hot. The heating switches off and the machine cools down.
Solution: Disconnect the machine from the main supply for a moment and then re-connect it.

E-1/E-2/E-3 appears on the LED display

• Please send the machine to the service-station or your local dealer.





70 ml/min

Fog generator

Voltage:

Control:

Procedure: vaporizing fog generator Power requirement: 2600 Watt 230 V/50 Hz Warm up time: approx. 12 min. Fluid consumption: at max. output 240 ml/min at cont. output Fluid tank capacity: 5 Liter Fog output: adjustable in 99 steps, steps à 1% Output projection: max, 15 m Fogging time: at 100% output approx. 30 sec. at < 50% output continuous output external Fan: max. 800 Watt, fan with one phase Air quantity: adjustable in 99 steps DMX 512 0 - 10 V analog Timer Stand alone mode Radio remote (option) XLR-remote (option) Temperature control: Microprocessor controlled Heater block/Thermostat Overheating protection: Pump/Thermal switch Dimensions (L x W x H): 52 x 23 x 25 cm 20 kg

Weight incl. tank: Fan

Procedure: Power requirement: Voltage: Air volume: Current: Capacitor (internal): Dimensions (DxWxH): Weight:

Centrifugal blower 250 Watt 230 V/50 Hz 620 m³/h 1.1 A 8 µ / 400 VDB 20.5 x 27.0 x 21.9 cm 4.5 ka

Viper deLuxe

Dimensions incl. Case (LxWxH):	75 x 42 x 77 cm
Weight incl. tank and Case:	approx. 52 kg

9. Warranty Conditions

For the fog machine Viper 2.6/Viper deLuxe 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, wrong fog fluid, 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 expense. 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 not approved by us. The right of guarantee service is also lost if fluids other than original Look fog 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.

Manufactured for:

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

a Look Solutions product