

**SWEFOG**  
**LIVE T26** *evo2*  
**X-POWER HD SMOKE PROCESSOR**



**OWNER'S MANUAL**

**Live T26 Evo2 240V 50Hz (Item no 40 1 10-240)**

**SWEFOG**  
Technology Group AB



**IMPORTANT!**

Read all cautions and warnings prior to assembly, mounting and operating this equipment.

**IMPORTANT !**

Prière de lire toutes les précautions et les avertissements avant l'assemblage, le montage et de faire fonctionner cet équipement.

**WICHTIG !**

Lesen Sie alle Warnungen sorgfältig bevor Sie das Gerät zusammenbauen, installieren und benutzen.

**¡IMPORTANTE!**

Por favor, lea todas las precauciones y las advertencias antes de ensamblar, montar y operar este equipo.

**IMPORTANTI!**

Leggere tutti gli avvertenti prima di montare e usare questo apparecchio.

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## How to use this guide:

For your safety, it is important that you read this manual thoroughly before you operate the Live T26 Evo2.

This manual describes how to unpack, set up and operate the machine. It also lists important safety precautions and contains a separate service & maintenance manual for technical support.

In this manual you will find the following symbols:



**CAUTION**

**CAUTION:** This symbol appears adjacent to caution messages. Not heeding these messages could result in minor personal injury and/or damage to equipment.



**WARNING**

**WARNING:** This symbol appears adjacent to warning messages. Not heeding these messages could result in serious personal injury!

The owner's manual contains important safety precautions and information on how to use your machine. Always read the owner's manual before using the machine!

This manual and updates can also be downloaded as PDF-files from the internet: [www.swefog.com](http://www.swefog.com)

## QUICK SETUP GUIDE:

1. Read chapter 3: "SAFETY PRECAUTIONS".
2. Place machine on a level surface.
3. Prepare a SWEFOG smoke fluid canister, screw the metal cap on and tighten. Place the canister in the machine and connect the fluid suction tube.
4. (For DMX control only): Connect DMX cables
5. Connect to a mains outlet with earth lead (11 Amps, 2600W)
6. Select operation mode by pressing MODE button.
7. Machine is ready after heat up, approx. 10 minutes.

## 1. INTRODUCTION:

The Live T26 Evo2 is a high power smoke generator. Due to the very precise output control and the integrated fan outlet control, the machine can be used for many purposes.

- Very high output – 1,800 m<sup>3</sup> (63500 ft<sup>3</sup>) per minute at full power.
- Continuous operation at 50% output or below.
- Precise output control, 1 – 100%, adjustable in 99 steps.
- Cast aluminium heat exchanger with dual stainless steel vaporizer coils.
- Built with the use of industrial quality components.
- Full R.I.S.C. microprocessor control. Software upgradeable.

We hope that you will be fully satisfied with the performance of your Swefog Live T26 Evo2. To keep your machine functioning like new for its entire life, it is important to follow the instructions in this manual and to perform regular maintenance of the machine.

For the best results, use only original water based Swefog smoke or haze fluid in the machine. **Use of any other fluid will void the warranty.**

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### 1.1 The Swefog Live T26 Evo2:

The first generation T26 was developed with one goal in mind: To build the most versatile smoke machine on the market. Released in 2004, the T26 was equipped with a very powerful heat exchanger, with an extremely high capacity. The dual piston-pumps were microprocessor-controlled, and the very precise output control allowed the user to create everything from very small amounts of fog to extreme volumes of pure, white smoke.

The Live T26 was advanced, but very easy to use, with the use of an alphanumeric display and a simple-to-use menu system.

The second generation, the T26 Evo2, has kept all the features and benefits from the T26 but all internal mechanical and electrical parts have been re-designed and developed further, in order to make the best machine on the market even better.

We recommend that you have some experience with smoke appliances to use the T26 Evo2, but you don't have to be an engineer to handle it. Just read this manual to understand your machine and get started!

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### 1.2 Fog capacity

- In all modes, the T26 Evo2 can produce fog until the temperature is below the minimum operational level. Below this point, the pumps will be disabled.
- The machine can produce smoke continuously (without interruption to re-heat) at output levels below 50%. If the machine is to be used for continuous operation, make sure the maximum heater temperature is reached before the operation starts.
- At output levels between 50% and 80%, the machine can produce smoke for several minutes without interruption to re-heat.
- At output levels more than 80%, the machine can produce fog for approximately 2-4 minutes until the temperature is below the minimum operational level.

---

### 1.3 Some technical information

Very simplified, a smoke machine contains a heat exchanger block, a fluid pump and an electronic control module, ECM. The heater block contains a pipe system, an electric heater and metal, which works like a “battery” for storage of heat. The electronic module controls the temperature in the heater block and the pump speed. When smoke is produced, the pump starts to pump smoke fluid into the heater. Due to the very high temperature in the heater block, the fluid will vaporize to a white smoke. When the fluid vaporizes, it consumes tremendous amounts of energy, which will cause the temperature in the heater block to sink. The electronics will reduce the pump speed, and finally disable the pump, when the temperature is below the minimum operational level, in order to avoid “wet” (unvaporized) smoke. The machine will stop to reheat.

A high performance smoke generator like the T26 Evo2 is able to produce large volumes of smoke over long periods, with a very precise control of the output and internal temperatures, to avoid “wet” smoke.

Most smoke generators work with the same basic design. The difference between a high performance generator and low-cost middle-of-the-road generators is the choice of internal components, electronic controls, user friendliness etc. Swefog Live T26 Evo2 is made with the use of industrial quality components like stainless steel heat exchanger cores, long-life heaters and non-compromise electronics. Most custom-made components are made in Sweden; other standard components are of west European origin. The end result is a high performance smoke processor with detail quality which sets Swefog as an industry benchmark.

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### 1.4 EPR – Electronic Pump Ramping:

The selected output will be proportionally reduced with sinking temperature in the heater block, in order to avoid unvaporized (“wet”) smoke fluid coming out. It will also increase the total smoke output capacity, as the machine will use all heat available in the heater block. The reduced pump speed allows the metal to level the temperature in the heat exchanger.

Example: If the machine is set at 100% output, the pumps will run at full speed during the initial burst, and then the pump speed will be slowly reduced until the heater temperature is below the minimum operational level, and the pumps will be disabled. Smoke will not be available until the machine is re-heated.

---

### 1.5 Intelligent Silent Soft Start:

To maximize performance and safety, your T26 Evo2 is equipped with an advanced silent soft start system (do not confuse it with the EPR system). Silent soft start is used to reduce the “crack” noise created during the initial burst of smoke. The “crack” noise is caused by the pump pressure overcoming the enormous back pressure of the heat exchanger. The silent soft start electronics gradually powers the pump, eliminating this noise, ensuring a quieter and smoother operational level following initial start up. It will also increase the lifetime of the internal components, as high pressure peak loads on pumps, piping and couplings are reduced.

The T26 Evo2 will always start the pumps at 20% if silent soft start mode is selected (soft start ON). The electronics will slowly increase the pump speed to the selected output level. The maximum silent soft start time (from 20-100%) is 6.4 seconds. At selected outputs below 100%, the silent soft start time interval will be shorter.

If silent soft start mode is not selected (soft start OFF), the pumps will start at selected speed, without delay. Use this mode for smoke burst effects or if it is important to fill an area with smoke quickly, without the delay caused by the silent soft start function.

The smoke generator will become noisier due to the crack noise caused by the heat

exchanger, especially at high pump output settings. The mechanical load on internal components will also be much higher due to high peak pressure loads, which may reduce the lifetime of pumps and internal pipe fittings, tubes etc.

Please note: The maximum pump speed is always controlled by the EPR system. If the temperature is too low for the selected output, the EPR will automatically reduce the pump speed. This is a fully automatic system, controlled by the processor, and cannot (and should not) be disabled or modified by the user.

---

## 1.6 About smoke fluid

Most water based smoke or haze fluids contain glycols. The glycols in the mixture create the white particles that we recognize as smoke or haze. Two things are very important to remember about fluids and smoke machines:

- The water must be de-ionized. If the water contains minerals like calcium, salt etc; the pipes of the heat exchanger will first be coated causing poor output, and eventually they will clog completely, and your machine will be damaged. The pipes cannot be cleaned.
- The glycol used in the mixture has to be very clean. If not, it may clog the heat exchanger, and most important of all, if the glycol is not 100% pure, it may be hazardous to health, as it will contain a few fractions of unknown substances that may be dangerous to inhale when heated.

There are many low-cost fluids available, manufactured from water and chemicals with unknown purity. The Live T26 Evo2 will probably work with most of them, but as always: You get what you pay for.

Swefog smoke and haze fluids are based on pure, de-ionized Swedish water which is demineralized in an industrial laboratory, and absolutely free from minerals. It contains glycol of pharmaceutical (medical) quality only – the finest and most pure glycol available. The fluid is mixed and bottled in our factory, which guarantees full production quality control, and a clean fluid of the highest quality.

We strongly recommend that you use original fluids because the T26 Evo2 is a high performance machine, and it was developed for Swefog fluids.

Other fluids may be designed for a different vaporizing (heater) temperature or contain other chemicals and/or a different mix between water and glycols. There could be problems with wet or even toxic smoke. A clogged heater block can be replaced. Personal injuries may be permanent. Always remember, you are responsible for the safety of the smoke appliance. The manufacturer cannot be held responsible if the wrong type of fluid has been used.

Using Swefog original fluids, you will be 100% sure the smoke produced by your machine is non-toxic and safe, for both you and your machine.

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## 2. Unpacking:

The Live T26 Evo2 package contains:

- One machine.
- One canister metal fitting.
- One manual.
- Save the carton and packing material for future use.
- If the machine needs to be transported, ship placed on a small pallet preferably in the original box, and use straps to fix it to the pallet.

### 3. SAFETY PRECAUTIONS:



#### **WARNING**

- Smoke residues and fluid spillage may be dangerous. A slippery surface can cause serious personal injury! **ALWAYS** check surfaces before, during and after the use of the machine.
- Do **NOT** install this machine directly above an audience.
- Do **NOT** point the discharge directly towards an audience.
- Make sure the area in which this product is to be used is well ventilated.
- Do **NOT** operate near flammable materials or fire.
- Do **NOT** place hands or face near heat exchanger or output during operation. **NOTE:** There might be puffs of smoke from the output pipe when machine is not operating.
- Do **NOT** expose to rain or moisture.
- Connect to mains outlet with earth. Use a cable with earth. Check for correct voltage and/or mains frequency (see machine label). **NEVER** use the machine with wrong mains voltage or frequency.
- **NOTE:** The condensation of the smoke makes floors, stairs and other surfaces slippery. Do **NOT** point the discharge towards cool or hard surfaces like wood, plastics, glass or metal. If the machine is frequently used, or used for a long time, check surfaces frequently.



#### **CAUTION**

- Use Swefog water based fluids only. Other fluids may damage the machine, cause residues inside and outside the machine, or cause toxic or odorous smoke. **USE OF ANY OTHER FLUID WILL VOID THE WARRANTY.**
- The fluid contains glycol. Glycol may cause some types of paint to get wet. It may also affect other materials or surfaces. It may cause unprotected metal surfaces to corrode. Do not point the discharge directly to a painted or sensitive surface.
- **NEVER** mix or dilute the fluid.
- **NEVER** heat the fluid. Use room-temperature fluid only.
- Use responsible concentrations of fog to create atmospheric effects.
- **NOT** for residential use.
- Operate in room temperature only.
- **NEVER** cover vents or air inlets on the machine housing.
- Service internal parts **ONLY** if you have the know-how and experience to perform the

service correctly. If not, please contact a Swefog service centre or the manufacturer.  
**NOTE: Incorrect service works and/or the use of non-original spare parts will void the warranty.**

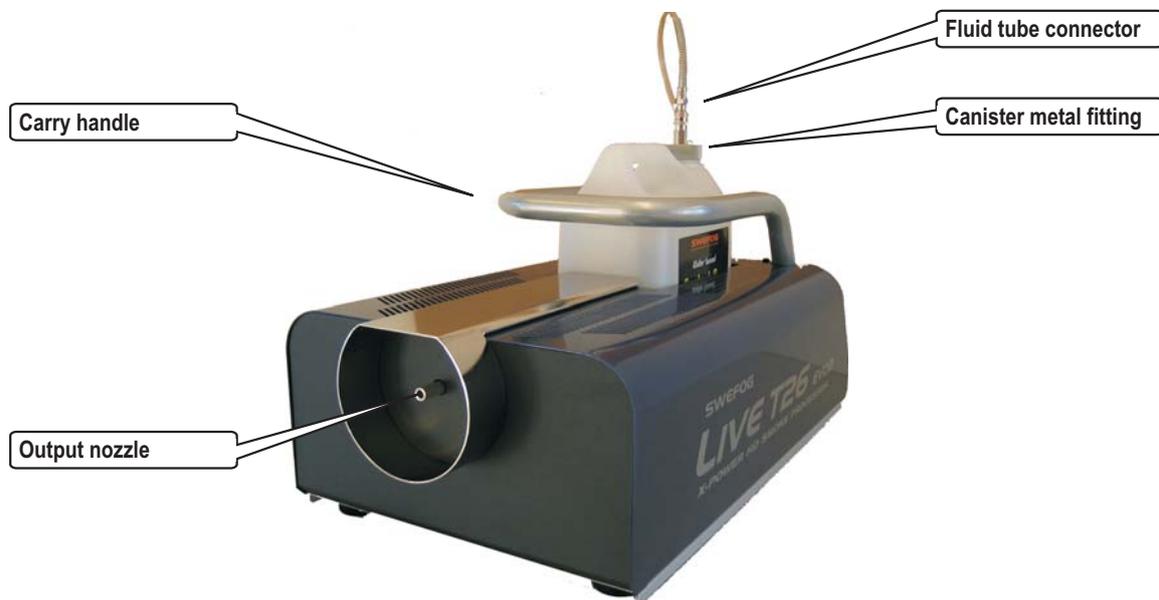
- **NEVER change parts or details inside, use original spare parts only!**
- **NOTE: If there is – for any reason – a fluid leakage or spillage, wipe off fluid spillage. DO NOT use the machine until it is mended.**
- **NOTE: The smoke may cause residues on mirrors, lenses and similar components. Keep away from equipment with fan ventilation.**
- **Must be handled by personnel with adequate experience with smoke appliances.**
- **Operating the machine with an empty fluid tank will damage the pumps. Normally, the automatic pump shutdown system will disable the pumps when the fluid is almost empty (approx. 0,5 L left).**

#### 4. CE-CONFORMITY (230V models only):

We, Swefog, declare that the appliance described in this manual conforms to the EEC machine directive. Complete documents may be required from Swefog.



#### 5. INSTALLATION & PRECAUTIONS:



1. Place the machine on a level surface.
2. Use Swefog fluid, 5L canister size. Remove the plastic cap; replace it with the canister metal fitting with fluid suction pipe (included with the machine). Make sure the connection is airtight.

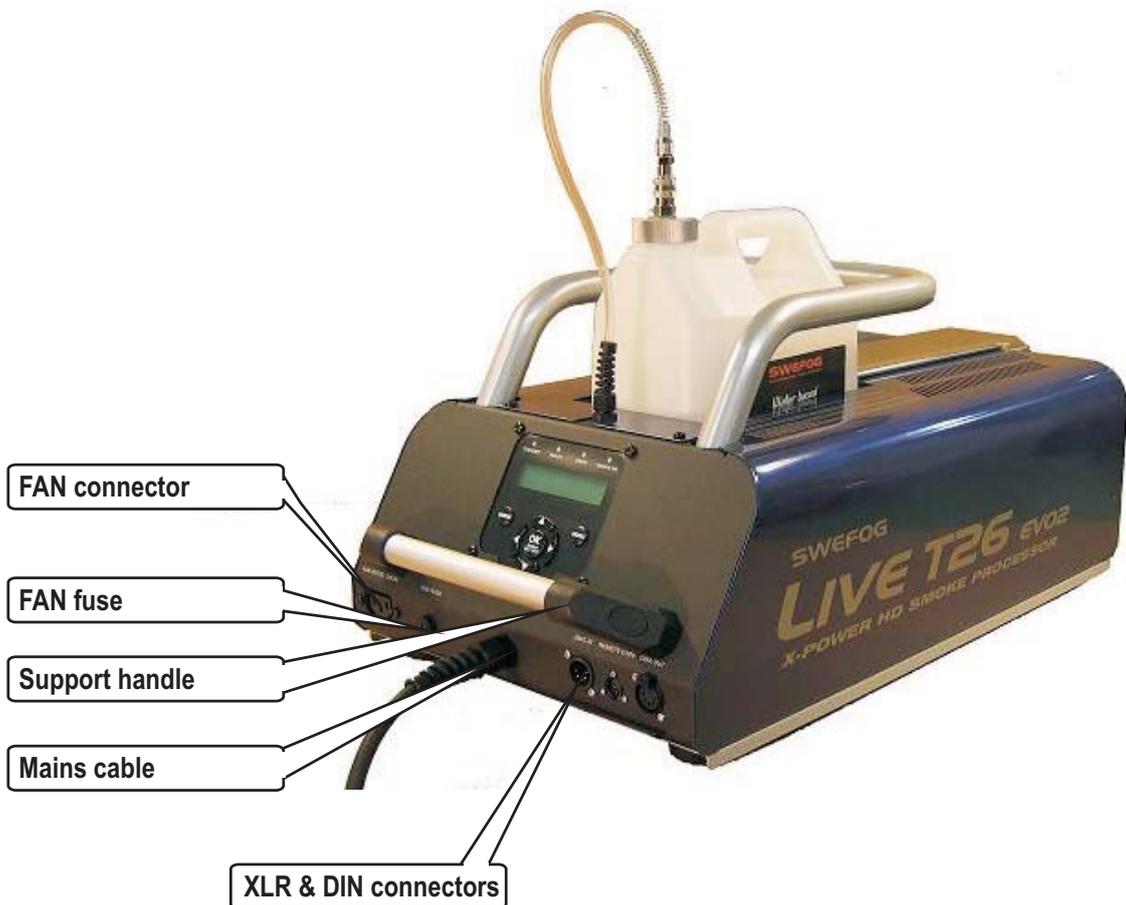


**WARNING**

**RISK OF FIRE OR EXPLOSION!** NEVER use any kind of flammable liquid in the machine.

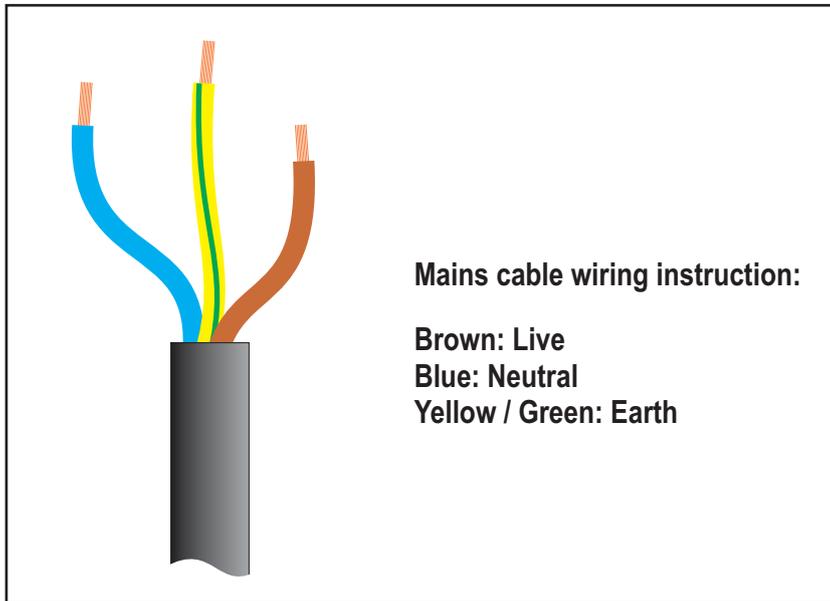
**OUTPUT NOZZLE BECOMES EXTREMELY HOT!** Keep hands off!

3. Place the canister in the canister space.
4. Connect the fluid tube to the canister.
5. NEVER fill fluid or replace canister while machine is operating. To refill fluid to a canister, always remove the canister from the machine! Do NOT fill fluid with the canister placed in the machine.
6. If the machine is to be used with DMX: Connect a 5-pin DMX cable to the male (=input) XLR connector. See below for further instructions.



## 6. WIRING & CONNECTORS:

### 6.1 Mains cable:



The Live T26 Evo2 is fitted with a mains cable with a European standard plug with earth. If the plug is replaced, connect the wires as shown above. Use a mains plug approved for min. 16 Amps.



**WARNING**

### **RISK OF ELECTRIC SHOCK!**

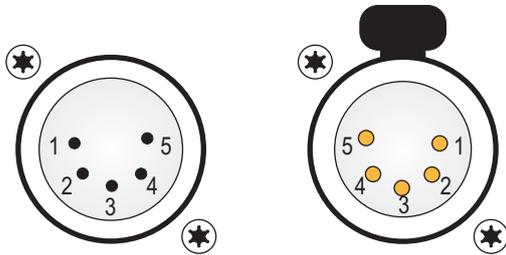
Refer to qualified personnel if the mains cable must be modified or replaced. **NEVER** use a damaged cable.

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## 6.2 DMX Connection:

### Chassis connectors



Male

Female

### Cable connectors



Female

Male

Use a **5-pin female XLR** for **DMX input**.

Pin 1 = signal + (positive)

Pin 2 = signal - (negative)

Pin 3 = 0V (earth)

**Onboard XLR connectors:**

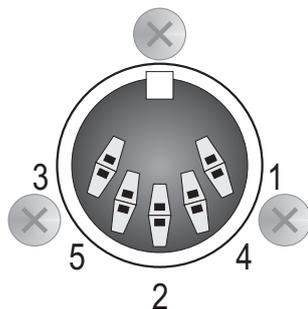
MALE: Data IN for receiving data.

FEMALE: Data OUT for transmitting data.

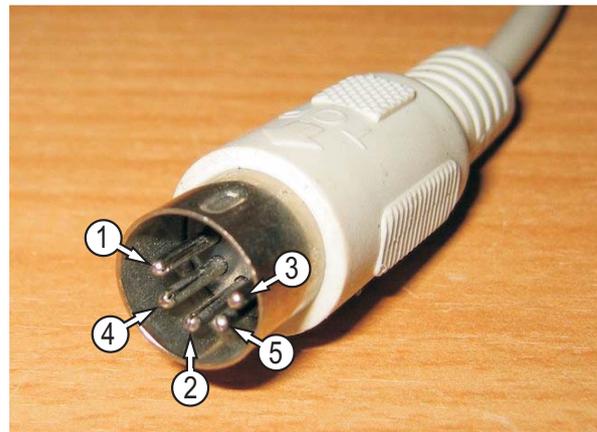
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## 6.3 DIN Remote / 0-10V analogue connector:

DIN 41 524 pinout:



Chassis connector

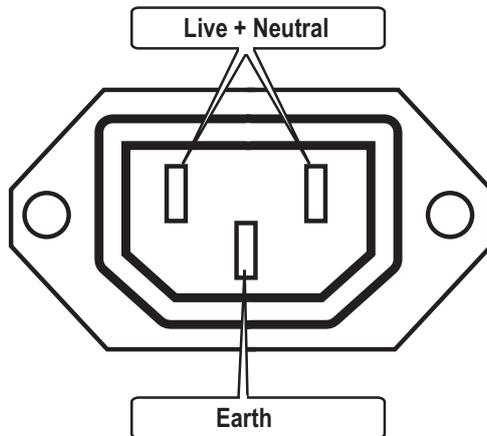


Cable connector

*Pinout: 1: Not used 2: Ground 3: Fan speed 4: Smoke output 5: +12V output for use with Swefog remote controls ONLY. NOT for use with a light desk, other remote controllers or any other purpose. Do NOT link or short circuit any pins, it may damage the electronics. If an external voltage source is connected for control (i.e. older types of light desks 0-10V), NEVER exceed 12V DC between earth and pin 3/4. See chapter 6:4, "Operation remote / 0-10V mode" for further information.*

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## 6.4 FAN Connector:



Use a cable with IEC male connector for power supply to an external fan.  
The connected fan must be earthed. Maximum power consumption of fan is 2 Amps (500W). Use a fan with a motor that can regulate speed with the use of dimmers.



**WARNING**  
NEVER use a 2-pin IEC connector without earth.

## 7. OPERATION:

### 7.1 Control panel & display:

All settings & programming is made with the use of the control panel and the alphanumerical display.



**SWITCH ON:** Plug the T26 Evo2 into a power socket with the appropriate voltage.

**NOTE:** The machine consumes 2,600 Watts=11 Amps at 230V and NO fan connected. WITH fan connected the power consumption is up to 14 Amps depending on fan motor power.

- Auto-ON: If the machine has been disconnected from mains, it will automatically switch ON when the plug is connected to a mains socket. The GREEN “standby” indicator is turned on.
- From Standby mode (RED “standby” indicator is turned on): Press and hold the “OK” switch until the “standby” indicator turns GREEN.

The T26 Evo2 will require approximately 8 minutes to heat to minimum operational temperature, and approximately 10 minutes to heat to its highest temperature.

#### **STANDBY INDICATOR:**

- No indication: The machine is disconnected from mains.
- RED: Standby.
- GREEN: Power ON.

#### **READY INDICATOR:**

- Until the GREEN “ready” indicator starts to flash, the pumps are unable to run.
- A flashing indicator indicates that the machine is able to produce fog, but the machine is still heating and is not yet at its full capacity.
- The indicator is turned on at highest temperature. This indicates maximum fog capacity.
- The indicator will start to flash during operation. This is normal, and indicates the machine is re-heating.

**TIMER INDICATOR:**

- YELLOW: Timer is in operation.



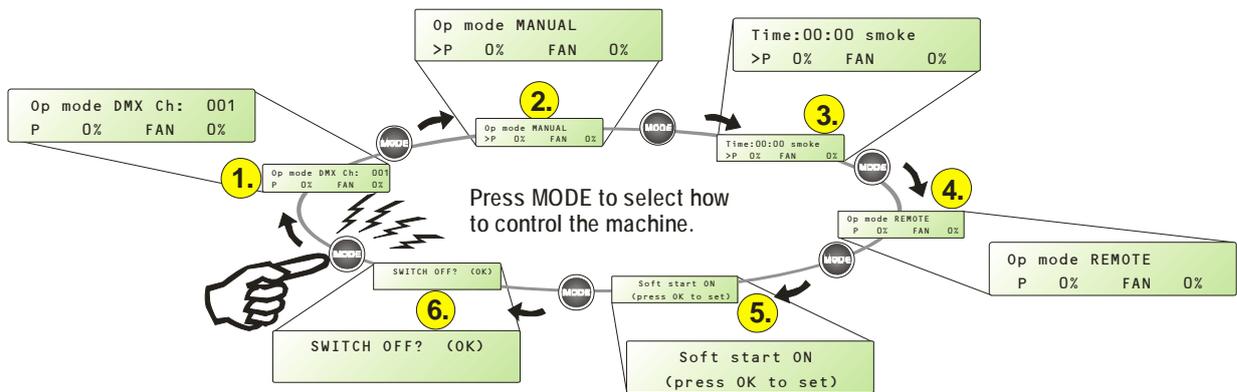
**WARNING**

At timer, DMX & 0-10V modes, machine may start and stop automatically!

---

**7.2 Operation mode:**

- Press MODE switch to select how to operate the machine: DMX/Manual/Timer/Remote 0-10V/switch off.



---

**7.2.1 DMX mode:**

Select DMX mode to control the machine from a DMX light desk.

**1. INTRODUCTION:**

The display indicates: Operation mode (DMX), programmed start channel, pump and fan output.



The machine uses maximum 2 channels:  
Channel 1 = Output, channel 2 = fan speed.

The most recently stored address will be stored in the processor's memory when the machine is switched off and/or mains voltage is disconnected. This address is default next time the machine is switched on. In an application where the machine is used with the same address every time (e.g. on tour or in permanent installations), set of address is not necessary, as the machine always start up with the same address automatically.

If, for any reason, a different address is to be used temporarily: Set the temporary address (indicated in display window), but do not press "OK". The machine will respond to the temporary address until mains power is switched off. Next time it is switched on, the usual, favourite address will be set as default.

## 2. ADDRESS PROGRAMMING:

1. Press MENU to set a start address. Use the ▲ / ▼ buttons to select an address between 1 and 511. Press OK to store the address.

Set start address

Ch: 001

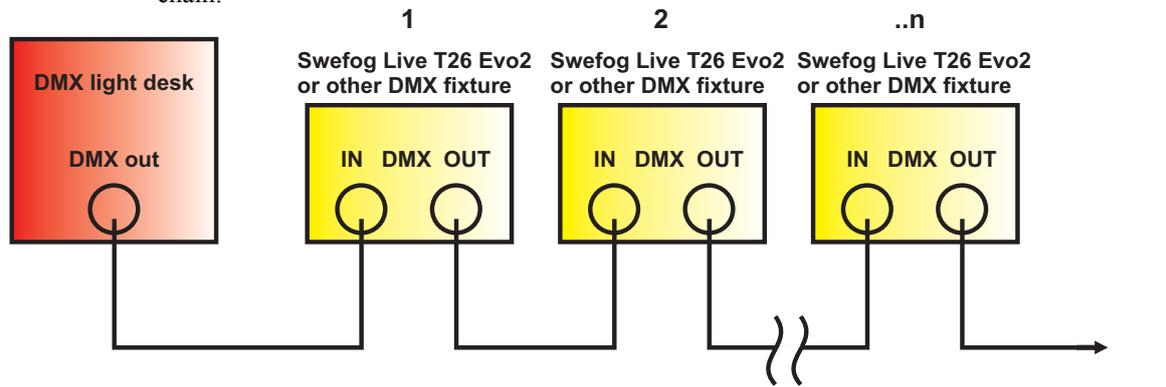
2. Press MENU for exit.
3. The fog output and fan speed is proportional to the DMX level:

Output %	DMX level	Output %	DMX level	Output %	DMX level
1	4	35	90	70	179
5	14	40	102	75	191
10	26	45	115	80	204
15	39	50	129	85	217
20	51	55	140	90	230
25	64	60	153	95	242
30	77	65	166	100	255

## 3. DAISY-CHAIN MULTIPLE FIXTURES:

Use a standard DMX cable, with one male and one female 5-pin connector. Use the male plug to connect to the DMX out (female) connector on the machine. Plug the other end (female connector) of this cable to the next unit in the series. Repeat this step with each successive unit in the chain (connect unit 2 to 3, unit 3 to 4 etc), until all units are connected.

**Daisy-chain rule:** You need one DMX cable for each unit you want to connect in the daisy-chain.



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## 7.2.2. Manual mode (stand-alone):

Select manual mode if you wish to operate the machine from its keypad only.

Op mode MANUAL
>P 0% FAN 0%

1. Set fog output level (P) and fan speed (Fan): Use the ▲/▼ buttons to set an output level from 0 to 100%. Press and hold for faster count. Use the ◀/▶ buttons to change between smoke output and fan speed. An arrow indicates whether the smoke output (>P) or the fan speed (>Fan) is set.
2. Press OK button to start the production of fog. The RED “smoke on” indicator is turned on. NOTE: The silent soft start system always starts the machine at 20% fog output. After a few seconds the machine will produce fog at selected level.
3. Press OK button to stop fog production.

In manual mode, the fog production is automatically disabled if the machine stops to reheat. After an interruption, the user has to press the “OK” button to resume fog production. This is a safety measure to prevent uncontrolled fog production.

---

## 7.2.3. Timer mode:

Select timer mode to produce fog at fixed time intervals. The T26 Evo2 uses the microprocessor to control time intervals, which makes the timer very precise.

Time: 00:00 smoke
>P: 0% FAN 0%

### 1. INTRODUCTION:

The machine is using the microprocessor to control the timing process, which makes smoke and delay times 100% precise.

NOTE: Do not programme time intervals below 7 seconds if you have selected a high fog output. The pump silent soft start system will prevent the pumps to run at full speed the first few seconds.

### 2. PROGRAMMING THE TIMER:

1. Press MENU to set “operate” and “delay time”. Use the ▲/▼ buttons to set time in seconds. Use the ◀/▶ buttons to change between operate and delay time. Press MENU to exit.

Set operate time
00:00 (min:sec)

◀ / ▶

Set delay time
00:00 (min:sec)

2. Set fog output level (P) and fan speed (Fan): Use the ▲/▼ buttons to set output level from

0-100%. Press and hold for faster count. Use the ◀/▶ buttons to change between smoke output and fan speed. An arrow indicates whether the smoke output (>P) or the fan speed (Fan) is set.

### 3. ACTIVATING THE TIMER:

1. Press **OK** button to start the timer. The YELLOW “Timer” indicator is turned on. The display indicates remaining time (operate/delay). The RED “smoke on” indicator is turned on when machine is operating. The indicator is off at delay status.

Time: 00:24 smoke
>P: 75% FAN 100%

NOTE: The silent soft start system always starts the machine at 20% fog output. After a few seconds the machine will produce fog at selected level.

Press **OK** to stop the timer. The Yellow “Timer” indicator is off.

---

## 7.2.4. Remote / 0-10V mode:

Select this mode to control the machine with a Swefog analogue remote controller (optional) or a 0-10V light desk.

Op mode REMOTE
P 0% FAN 0%

Connect the remote controller or a cable from a light desk to the 5-pin DIN connector. The fog output and the fan speed are proportional to the amount of voltage supplied.

Swefog analogue remote control:

1. Select fog output with the “fog output” button.
2. Select fan speed with the “fan speed” button.
3. To produce fog, press the “smoke on” switch.

NOTE: When the analogue remote control is used, all values are approximate. The display on the machine indicates the current smoke output.

---

## 7.2.5. Silent soft start ON/OFF:

Use this menu to activate the silent soft start function of the fluid pumps. For a detailed description of the soft start function, see chapter 1.5 “Intelligent silent soft start”.

Soft start ON
(press OK to set)

Press **OK** to change between silent soft start ON or OFF. Current setting is indicated on the display.

---

### 7.2.6. Switch off:



Press **OK** for standby. The RED standby indicator indicates the machine is switched off and set into the standby mode. At standby mode, the main processor, heater, pumps and all other internal electrical parts are OFF. The machine uses a power save circuit which only senses the OK button for switching on, and the power consumption is less than 0,5W.

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### 7.3 External fan control output:

Connect a 1-phase 230V fan to the IEC fan outlet. Maximum fan motor power is 2 Amps/500W.

NOTE: With a fan connected, the total power consumption will be increased. The fan motor power consumption is added to the consumption of the machine (2,600W). With a 500W fan connected, the total power consumption is 3,100W (= 13, 5 Amp. at 230V). Make sure your power outlet socket is appropriately fused.

The fan speed is controlled through the electronics. The internal fan speed regulator works like a light dimmer, the output voltage is 0–230V. Most fan motors do not start at fan speed levels below 30 – 40%, because of the mechanical start moment. Always test with the fan connected. To avoid fan motor damage, do not run the fan at very low speed, where the fan wheel does not rotate properly. If the fan is not to be used, ensure the fan speed is set to 0%, to avoid motor damage. Consult fan manufacturer for further information. Swefog or its distributors WILL NOT be responsible for fan motor damages. Do not use the fan outlet connector for other purposes.

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### 7.4 Mode Memo System (MMS):

At power on, the machine will automatically start in the same operation mode that was used last time. In DMX mode, it will also remember the most recent DMX address programmed. Read more, chapter 2, “DMX mode”.

The MMS feature is a useful function for permanent installations, touring or any other application where the machine is always used with the same operation mode.

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## 7.5 Low Fluid Sensing – LFS II & Smoke fluid change:

**FLUID EMPTY**  
(press OK to reset)

The T26 Evo2 is equipped with LFS II, an optical “photo-cell” type wireless low fluid level sensing system, which will prevent the pumps from running dry damage. The LFS II system detects air bubbles in the fluid supply tube. When the fluid canister is empty, the optical sensor detects the air in the fluid supply tube. The pumps are now allowed to run for 30 seconds. If air can still be detected in the tube, the pumps are disabled to avoid dry run damage. Replace the fluid canister (or fill the old one with smoke fluid), and press OK to reset the system. Again, pumps are allowed to run dry for 30 seconds. As soon as fluid is detected by the optical sensor, the system is automatically reset to avoid unwanted interruptions due to a few single air bubbles in the tube. Run the machine until the tube is filled with smoke fluid and no air bubbles can be seen.

When fluid is out:

1. Replace the empty fluid canister. Clean canister compartment and the fluid connectors.
2. Ensure the fluid tube fitting is properly connected to the new canister, without risk of air leaks.
3. Run the machine in “manual” mode at pump speed between 50-85%. Never exceed 85% during the fluid change process.
4. While pumps are operating, check the fluid suction tube. Run the machine for approximately 30 sec after no air bubbles can be seen in the tube, to ensure a “bubble-free” fluid tube.
5. If pumps are automatically stopped during the fill-up process (Fluid empty message appears in display), press OK to reset. Pumps are now able to run for another 30-sec period. NOTE: The system is automatically reset when smoke fluid is detected in the tube.
6. Always ensure no air bubbles are left in the suction tube. At low output settings, air bubbles may cause problems with unwanted interruptions caused by the fluid empty sensor.

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## 7.6 Mechanical overheating protection:

The T26 Evo2 uses three mechanical overheating protection switches: One for each pump and one 16 Amp. thermostat for the heater block. All will automatically reset after being activated.

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## 7.7 Ducting system:



If the machine is to be used together with a fog distribution system, it should be placed so that the fog is discharged into the distribution system’s inlet or as directed by the instructions pertaining to the distribution system. Always use the Swefog ducting system adaptor (optional). Do NOT slip the tubing over the end of the machine’s output nozzle.

**CAUTION!** Using a ducting system may result in smoke fluid residues, which may cause slippery floors.

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## 7.8 Flying installation:



### **CAUTION**

Use the Swefog flying bracket kit (optional). NEVER install the machine directly above an audience. ALWAYS use the drip tray provided with the kit.

**CAUTION!** Check and clean the drip tray often, every time the fluid canister is changed. Fluid drops will cause slippery floors!

**WARNING!** Read the safety instructions provided with the flying bracket kit. Assemble and install the kit according to the instructions provided with the kit. Always use the safety wire provided. Faulty installation of the flying bracket kit may cause serious personal injury.

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## 7.9 Error messages:

If a problem is discovered by the processor, it will automatically shut down the machine, and display an error code. If an error code appears in the display, contact your Swefog dealer to solve the problem. The basic error messages are: C101, C102, and C103. All these error codes indicate a problem with the temperature sensing system.

## **8. SERVICE, MAINTENANCE & REPAIR:**

The Live T26 Evo2 is made with high quality, industrial standard components. If regular care and maintenance is performed, the machine will last for many years of use.

If you have good know-how and adequate experience with smoke machines, you may perform cleaning and basic troubleshooting. If not, refer servicing to qualified technical personnel, or contact a preferred Swefog dealer. NEVER try to adjust or modify electrical or mechanical parts. Preferred dealers will provide qualified service technicians, and will be able to perform most service works.

This manual contains basic troubleshooting only. For serious problems with your machine, contact your Swefog dealer.

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## 8.1 Software:

The Live T26 Evo2 uses a powerful microprocessor to control all functions. The microprocessor uses software. If you suspect a problem with the processor, or malfunction on electronics, always check the software version. Every time the machine is switched ON, the model name and software version is displayed for 2 seconds in the display window:

Swefog Live T26 Evo2 M2 v1.0
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Top line: Name & model indicator  
Bottom line: Software version

NOTE: The software version number cannot be confirmed by reading the machine label or serial number. Due to updates, the software versions may be changed several times during the lifetime of your machine. Always look for the correct software version shown in the display window.

## 9. TROUBLESHOOTING:



**CAUTION**



**WARNING**

**RISK OF ELECTRIC SHOCK! DISCONNECT FROM MAINS BEFORE OPENING THE MACHINE!**

**SOME INTERNAL PARTS MAY BE EXTREMELY HOT!**

**NOTE: Swefog Technology Group AB continuously releases service bulletins, when necessary. The bulletins describe detected problems, and how to solve them. To prevent competitors from copying technical design and information, the service bulletins are not distributed to the public. The service information is released to authorized distributors only. However, if you need help solving a problem yourself, always contact Swefog. Always provide information on model, serial number and a detailed description of the problem.**

- **MACHINE DOES NOT START UP WHEN CONNECTED TO A POWER SOCKET:**

**Q:** Does the “standby” indicator show red?

**YES:** Press and HOLD the “OK” button until the machine is on, and the display lights up.

**NO:** Check the power socket and/or its fusing. The machine consumes 2,600 Watts (11 Amps) with no fan connected. With a fan (max power 500 W), the total consumption is 3,100 Watts (13, 5 Amps).

- **OUTPUT IS SET TO 100%, BUT THE MACHINE RESPONDS VERY SLOWLY:**

This is normal. The silent soft start system will start at only 20%, and slowly increase the output up to 100% during 6, 4 seconds. This will avoid “crack” noise and reduce high peak loads on internal components. To disable the silent soft start function, use MODE button and go to the silent soft start menu. Select “soft start OFF”.

- **THE EXTERNAL FAN DOES NOT WORK:**

**Q:** Check the fan fuse.

**YES:** Check the fan and the connection. See chapter 6 for proper wiring.

**NO:** There is always a reason why the fuse has blown. Check the fan and the connection cables. Incorrect fan cable wiring may cause serious personal injury.

- **THE MACHINE DOES NOT RESPOND TO DMX:**

First, check for proper DMX cable wiring and that the correct DMX address is set. If the machine still does not work, restart the machine:

1. Switch the machine off: Press the MODE button until “Switch off?” appears. Press OK. Unplug the machine from mains for approx. 30 seconds.

2. Re-plug the machine, if it does not start up automatically: Press and HOLD the “OK” button until the machine is on, and the display lights up.

3. Check if the machine responds to the DMX signal

- **ERROR MESSAGES:**

If there is an internal error on components or sensors, the machine will not be able to operate, for safety reasons. The basic error messages are: C101, C102, and C103. All these error codes indicate a problem with the temperature sensing system.

Please note, there might be other error messages displayed, depending on updated software and technical improvements. Check with your dealer, or at [www.swefog.com](http://www.swefog.com) for updated manuals and service bulletins. Never repair or modify the machine yourself. Refer to qualified personnel.

- **ANY OTHER PROBLEM:**

If the remedies above fail to solve the problem, or if any other problem exists, contact a qualified service technician at your dealer or distributor.

## 10. SWEFOG WORLDWIDE WARRANTY:

### **Unpacking and Saving the Shipping Materials**

The customer would be well advised not to discard the Swefog shipping carton and packing materials. These items are specifically designed to protect this product during transport.

If you ever need to return a product for repair or maintenance, you should return it in its original shipping carton and packing materials, or materials of the same standard. To avoid fluid leakage during shipping, place the carton on a small pallet and secure the carton to the pallet with the use of straps. Even with an empty tank, fluid leakage may occur due to fluid remains in the tank and haze filter. If a returned machine requires extra cleaning due to fluid leakage during transport, the owner will be charged for the extra labour required and/or replacement of damaged parts due to fluid leakage.

To protect the machine during transport, always ensure the machine is transported upright at all times!

### **Inspecting the Contents**

Carefully remove the contents of each shipping carton and inspect the machine for signs of freight damage. In case of any such damage, notify both the shipping agent and the sender immediately (may it be the sales agent or the manufacturer).

Any damage incurred in shipping is the responsibility of the carrier. In the case of hidden damage, a claim should be made as soon as damage is discovered. All packing material should be retained for inspection.

**NOTE:** Freight damage claims are invalid for fixtures or other spare parts shipped in non-factory shipping cartons and packing materials.

### **Limited Warranty**

Unless otherwise stated, Swefog products are covered by a two-year parts and labour limited warranty.

Guarantee will be invalid if the Swefog machines have been used with non-original fluids.

It is the owner's responsibility to furnish receipts or invoices for verification of purchase, date and dealer or distributor. If purchase date cannot be provided, date of manufacture will be used to determine warranty period.

### **Returning an item for repair covered by warranty**

**Before** any units are sent to Swefog for repair, a Return (RMA) Form has to be filled out. This RMA form can be obtained by contacting Swefog [info@swefog.com](mailto:info@swefog.com) or downloaded from our website [www.swefog.com](http://www.swefog.com). The manufacturer will then make the final determination as to whether or not the unit is covered by warranty. All shipping will be paid by the purchaser. Transport costs for the returned units are not covered by the warranty and will henceforth be at the cost of the sender.

### **Under no circumstances will freight collect shipments be accepted.**

Repair or replacement as provided for under this warranty is the exclusive right of the customer.

**Swefog Technology Group AB shall not be liable for any indirect, incidental or consequential damage, including lost profits, sustained or incurred in connection with any product or caused by product defects or partial or total failure of any product regardless of the form of action, whether in contract, tort (including negligence), strict liability, or otherwise and whether or not such damage was foreseen or unforeseen.**

**Warranty is void if the product is misused, damaged, or modified in any way.**

