



PROFESSIONAL SHOW LIGHTING

GOLDEN FOG

1000
2000
2000 DMX

Congratulations on choosing a Clay Paky product! We thank you for your custom. Please note that this product, as all the others in the rich Clay Paky range, has been designed and made with total quality to ensure excellent performance and best meet your expectations and requirements.

INSTRUCTIONS MANUAL

Carefully read this instructions manual in its entirety and keep it safe for future reference.

It is essential to know the information and comply with the instructions given in this manual in order to ensure the fitting is installed, used and serviced correctly and safely.

CLAY PAKY S.p.A. disclaims all liability for damage to the fitting or to other property or persons deriving from installation, use and maintenance that have not been carried out in conformity with this instructions manual, which must always accompany the fitting.

CLAY PAKY S.p.A. reserves the right to modify the characteristics stated in this instructions manual at any time and without prior notice.

1 SAFETY INFORMATION

• Installation

Make sure all the parts for fixing the smoke machine are in a good state of repair. Make sure the point of anchorage is stable before positioning the fitting.

• Minimum distance of flammable materials

The fitting must be positioned so that any flammable materials are at least 1 metre (3' 3") from every point on the surface of the fitting.

• Direction and distance of the jet of smoke

Never turn the jet of smoke onto people or items that are flammable or can get damaged or dirtied by the jet of smoke. Installation above people is not permitted.

• Maximum ambient temperature

For the fitting to operate well and reliably, the ambient temperature should not exceed 35°C (95°F).

• IP20 protection rating

The fitting is protected against penetration by solid bodies with a diameter of over 12mm (0,47") (first digit 2), but not against dripping water, rain, splashes or jets of water (second digit 0).

• Protection against electrical shock

This fitting is classified, in accordance with the type of protection against electrical shock, in **Class I**. It must therefore be connected to a power supply system with efficient earthing.

It is, moreover, recommended to protect the supply lines of the projectors from indirect contact and/or shorting to earth by using appropriately sized residual current devices.

• Hooking up to the supply mains

The operations for connecting to the electricity mains must be carried out by a qualified electrical installer. Check that the mains frequency and voltage correspond to the frequency and voltage for which the smoke machine is designed, given on the rear panel. This panel also gives the input power. Refer to this to evaluate the maximum number of fittings to connect to the electricity line in order to avoid overloading.

• Maintenance

Before starting any maintenance work or cleaning the fitting, cut off power from the supply mains. After switching off, do not touch the smoke nozzle for at least 1 hour to avoid getting burnt.

• Temperature of the external surface

The maximum temperature that can be reached on the external surface of the fitting, in a thermally steady state, is 60°C (140°F) except for on the smoke nozzle where it reaches 300°C (572°F).



The products referred to in this manual conform to the European Community Directives to which they are subject:

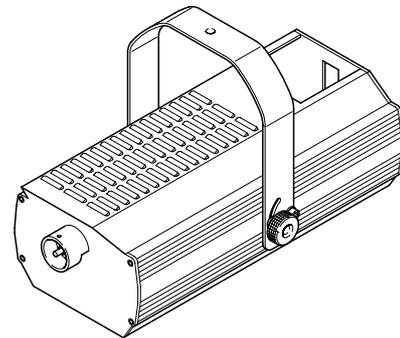
- Low Voltage 73/23
- Electromagnetic Compatibility 89/336

2 UNPACKING AND PREPARATION

• Unpacking

Open the cardboard box, take out the polystyrene wrapping and separate it, freeing the projector.

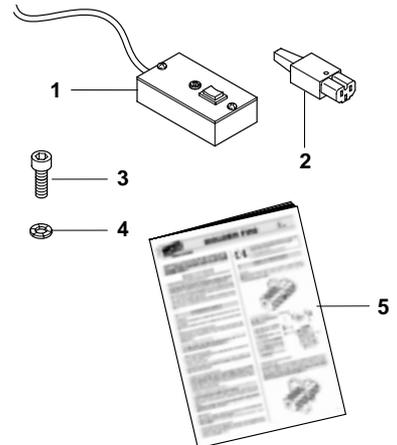
Remove the plastic bag from the smoke machine and position this on a horizontal top.



• Packing contents

Besides the smoke machine, the packing also contains the following accessories:

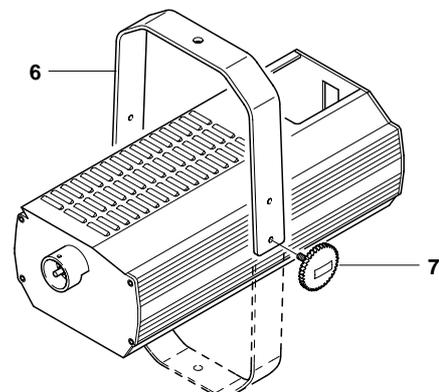
- Remote control (1) code 177034/801 (for GOLDEN FOG 1000 and 2000 models only).
- Socket for mounting on cable code 030210 (2).
- 2 screws (3) code 020002/029 (models 2000 and 2000 DMX only).
- 4 toothed washers (4) code 020201/005 (models 2000 and 2000 DMX only).
- This instructions manual code 099595 (5).



• Projector mounting

GOLDEN FOG 1000

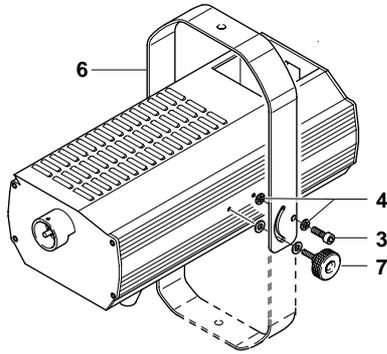
Position the bracket (6) according to the desired angle and lock it with the knobs (7). The bracket (6) can be height adjusted by using the two holes on the bracket; it can moreover also be mounted towards the bottom of the fitting. These last steps require fully extracting the knobs (7), putting the bracket (6) back into the desired position and reinserting the knobs (7), tightening them appropriately.



GOLDEN FOG 2000 and 2000 DMX

Secure the bracket (6) to the body of the smoke machine with the aid of the screws (3) and toothed washers (4) specially supplied, then position the bracket (6) according to the desired angle and lock it with the knobs (7).

The bracket (6) can also be mounted towards the bottom of the fitting. To do this, it is necessary to fully extract the knobs (7) and screws (3), reposition the bracket (6) as preferred, put the knobs (7) and screws (3) back in, together with the toothed washers (4), then lock the bracket (6) with the appropriate angle.



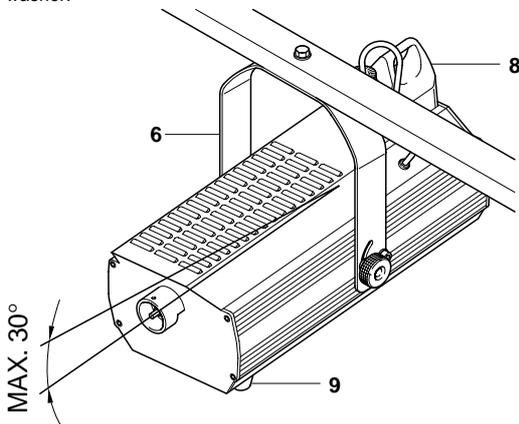
3 INSTALLATION

• Installing the fitting

The fitting needs to be installed horizontally, the angle the machine makes must be no greater than 30° so that no liquid will come out of the tank (8).

The GOLDEN FOG smoke machine can be stood "on the floor" on its rubber feet (9).

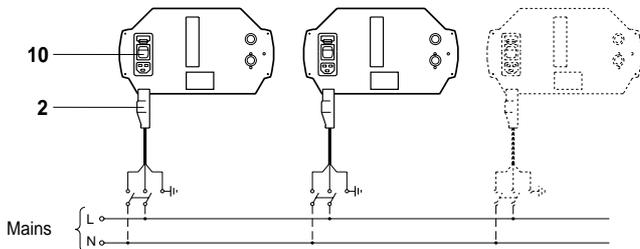
If the fitting is installed "on the ceiling" it must be secured using solely the specific mounting (6), through the hole in the centre of it. Use a screw ø10mm with nut and spring washer.



• Mains power connection

Each fitting should be connected with its own switch so it can be switched on and off individually from a distance.

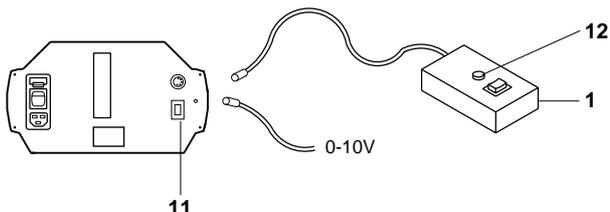
The smoke machine has to be hooked up to the electricity mains via the specific socket (2) supplied.



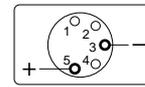
GOLDEN FOG fittings are equipped with a switch with an indicator light (10) that shows when the fitting is switched on.

4 CONNECTING CONTROL SIGNALS FOR

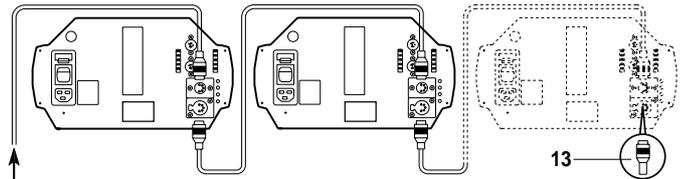
GOLDEN FOG 1000 and 2000 0-10V analogue or remote control connection



Smoke emission can be controlled by pressing button (11) on the rear panel of the machine or the button on the low-voltage remote control (1) supplied with the machine. The indicator light (12) on the remote control (1) warns that the boiler is at temperature. It is also possible to control the fitting with a 0-10V analogue signal via a cable terminated with a Cannon 5-pin XLR plug.



GOLDEN FOG 2000 DMX RS232/423(PMX)-DMX 512 connection



DMX 512
RS232/423

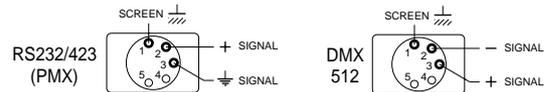
The connection between GOLDEN FOG 2000 DMX and the control unit and between different fittings must be made with a cable in conformity with EIA RS-485 specifications: braided, bipolar, shielded, 120Ω of characteristic impedance, 22-24 AWG, low capacity.

IMPORTANT: Do not use a microphone cable or any other cable with different characteristics to the ones specified above.

The terminations need to be made with male/female connectors type XLR with 5 pins.

If you use the DMX signal it is necessary to give the last fitting a terminal plug (13) with a resistance of 120Ω (minimum 1/4 W) between terminals 2 and 3.

If using the RS232/423(PMX) signal, the terminal is not required.

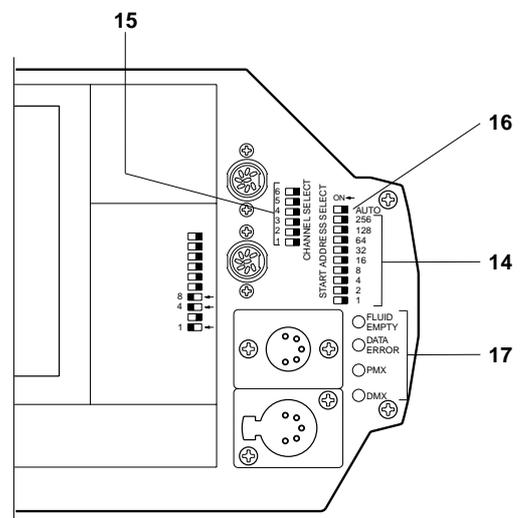


IMPORTANT: The wires must make no contact with each other or with the metal casing of the connectors. The casing needs to be connected to the braid of the shield and to pin 1 of the connectors.

• Fitting codes

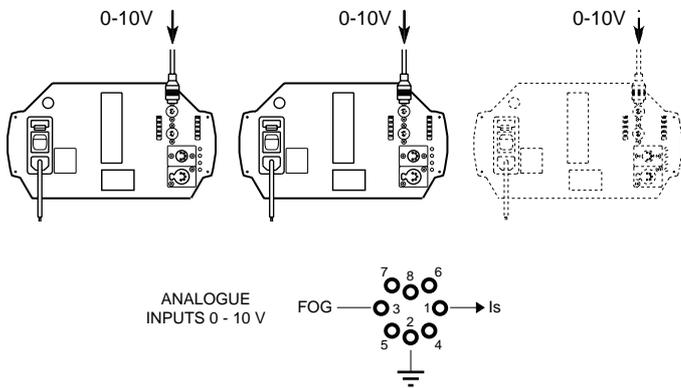
Each GOLDEN FOG 2000 DMX occupies one control channel. For this to be correctly addressed to each fitting, it is necessary to code the machines.

This has to be done on each single smoke machine, switching the microswitches (14) according to the following table. Coding can also be done with the machine switched off.



CODE		1	2	4	8	16	32	64	128	256	TEST
Golden Fog 1 - Channels 01	ON OFF	▲	▼	▼	▼	▼	▼	▼	▼	▼	▼
Golden Fog 2 - Channels 02	ON OFF	▼	▲	▼	▼	▼	▼	▼	▼	▼	▼
Golden Fog 3 - Channels 03	ON OFF	▲	▲	▼	▼	▼	▼	▼	▼	▼	▼
Golden Fog 4 - Channels 04	ON OFF	▼	▼	▲	▼	▼	▼	▼	▼	▼	▼
Golden Fog 5 - Channels 05	ON OFF	▲	▼	▲	▼	▼	▼	▼	▼	▼	▼
Golden Fog 6 - Channels 06	ON OFF	▼	▲	▲	▼	▼	▼	▼	▼	▼	▼
Golden Fog 7 - Channels 07	ON OFF	▲	▲	▲	▼	▼	▼	▼	▼	▼	▼
Golden Fog 8 - Channels 08	ON OFF	▼	▼	▼	▲	▼	▼	▼	▼	▼	▼
Golden Fog 9 - Channels 09	ON OFF	▲	▼	▼	▲	▼	▼	▼	▼	▼	▼
Golden Fog 10 - Channels 10	ON OFF	▼	▲	▼	▲	▼	▼	▼	▼	▼	▼
Golden Fog 11 - Channels 11	ON OFF	▲	▲	▲	▼	▼	▼	▼	▼	▼	▼
Golden Fog 12 - Channels 12	ON OFF	▲	▼	▲	▲	▼	▼	▼	▼	▼	▼
	ON OFF										▲

0-10 V analogue connection with decoding



On the back of the GOLDEN FOG 2000 DMX there is a selector with 6 microswitches (15) that make it possible to control 6 fittings simultaneously on separate channels, switching over the microswitches according to the following table.

CODE		1	2	3	4	5	6
Golden Fog 1	ON OFF	▲	▼	▼	▼	▼	▼
Golden Fog 2	ON OFF	▼	▲	▼	▼	▼	▼
Golden Fog 3	ON OFF	▼	▼	▲	▼	▼	▼
Golden Fog 4	ON OFF	▼	▼	▼	▲	▼	▼
Golden Fog 5	ON OFF	▼	▼	▼	▼	▲	▼
Golden Fog 6	ON OFF	▼	▼	▼	▼	▼	▲

• Automatic operation

Turning the AUTO microswitch (16) onto ON puts the fitting onto automatic operation. Keeping the microswitch on this position, the frequency of the sprays of smoke delivered depends on the level set on the DIL microswitches (14) normally used to select the address; there are therefore 512 possibilities for adjustment.

If automatic operation is activated, the four LEDs (17) on the rear panel come on alternately from the bottom upwards.

When the machine is controlled via the control unit (AUTO microswitch on the OFF position) the frequency of the sprays varies as the adjustment potentiometer moves forward.

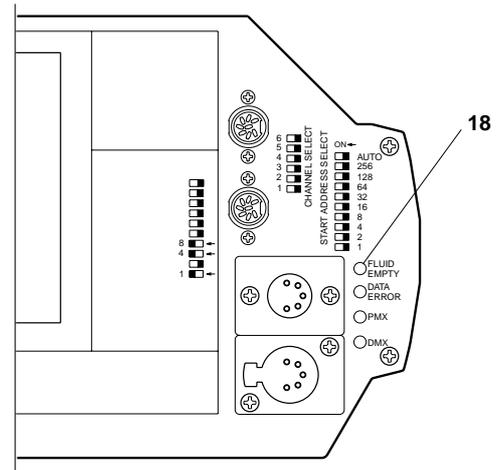
5

USE

After completing all the preliminary operations and installation, fill the tank with smoke machine liquid, press the switch, wait for the boiler to reach temperature, then check that smoke is generated and everything works properly.

IMPORTANT: Use solely CLAY PAKY smoke liquid in the light, medium and heavy versions. Other types of fluid could impair the operation of the smoke machine and/or seriously damage some components.

On the rear panel of the GOLDEN FOG 2000 DMX model there is an indicator light (18 – “Fluid Empty”) to signal the liquid has finished.

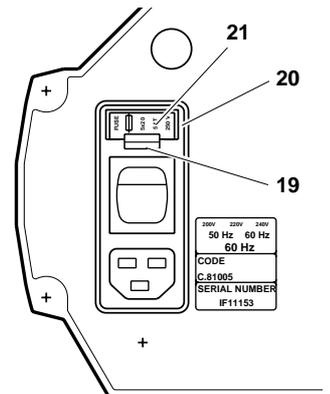


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MAINTENANCE

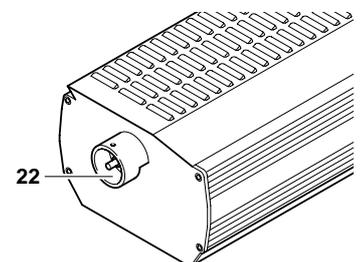
• Replacing fuses

To replace the fuses, press the tab (19) and take out the fuse-holder box (20). Replace blown fuses with new ones of the type specified on the label (21) on the fuse-holder box (20). Put it back in so the tab (19) clicks home.



• Periodical cleaning

Every time before use, clean any drops of fluid off the outlet pipe (22). Approximately every 1000 hours of operation, have qualified personnel check the machine.



THE FITTING WILL NOT SWITCH ON				TROUBLE
THE LED ON THE REMOTE CONTROL FAILS TO COME ON				
NO SMOKE IS GENERATED				
THE TUBE FAILS TO DRAW LIQUID				
IT FAILS TO WORK WITH DIGITAL SIGNALS				
		POSSIBLE CAUSES	CHECKS AND REMEDIES	
●		No mains supply.	Check the supply socket is powered and/or fuse conductivity.	
	●	Signal transmission cable short-circuited or disconnected.	Replace cables.	
		Cannon not properly inserted.	Insert the Cannon on the back of the machine.	
		No liquid in tank.	Fill the tank with liquid.	
		Internal mechanical part broken.	Call an authorized technician.	
		Tube not inserted properly.	Put the tube back into the tank.	
		Wrong address.	Check the digital address.	
		Electronics broken.	Call an authorized technician.	

Power supply

- 200 - 240V 50/60Hz

Input power

- GOLDEN FOG 1000: 1,000 VA
- GOLDEN FOG 2000: 2,000 VA
- GOLDEN FOG 2000 DMX: 2,000 VA

Tank capacity

- GOLDEN FOG 1000: 1 litre
- GOLDEN FOG 2000 and 2000DMX: 2 litres

Consumption and maximum delivery

- GOLDEN FOG 1000: 27 g/min
- GOLDEN FOG 2000: 55 g/min
- GOLDEN FOG 2000 DMX: 46 g/min

Pre-heating time

- GOLDEN FOG 1000: 5 min. ÷ 5 min. 30 sec.
- GOLDEN FOG 2000: 4 min. ÷ 4 min. 30 sec.
- GOLDEN FOG 2000 DMX: 4 min. ÷ 4 min. 30 sec.

Smoke delivery time

- GOLDEN FOG 1000: continuous
- GOLDEN FOG 2000: 60°/65°
- GOLDEN FOG 2000 DMX: 30 sec. at 100%, continuous with adjustment

CONTROL SYSTEMS**• GOLDEN FOG 1000 - 2000**

- Manual control
- Remote manual control
- 0-10V analogue input

• GOLDEN FOG 2000 DMX

- Serial digital input RS232/423(PMX) or DMX512
- 0-10V analogue input

INDICATORS**• GOLDEN FOG 1000 - 2000**

- Machine ready indicator light on remote control
- Power light

• GOLDEN FOG 2000 DMX

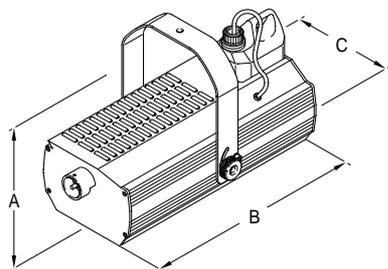
- Power light
- Fluid finished indicator light
- Automatic operation
- DMX signal reception
- PMX signal reception
- Error in receiving signals

SAFETY DEVICES

Power supply automatically cut off in the event of the boiler overheating.

Weight and dimensions

- GOLDEN FOG 1000: Weight 7.5 Kg (16 lbs 8 ozs)
- GOLDEN FOG 2000: Weight 11 Kg (24 lbs 3 ozs)
- GOLDEN FOG 2000 DMX: Weight 12 Kg (26 lbs 6 ozs)



	A mm	B mm	C mm
GOLDEN FOG 1000	270 (10.63")	490 (19.29")	230 (9.06")
GOLDEN FOG 2000 and 2000 DMX	310 (12.20")	490 (19.29")	340 (13.39")