

TURBO JET SMOKE X02

SF-X02 PRO

USER MANUAL



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- ★ Please read this manual carefully before use.
- ★ This manual contains the warranty card, please keep it safe.

DISCLAIMER

Please read the manual carefully before installing and using this product. Failure to read or comply with this manual may result in injury to products and personnel, and Spark Fabrica shall not be responsible for this. This product is a professional machine, we do not assume any responsibility for accidents or losses caused by the use or maintenance of this product by personnel without professional training and permission. The information contained in the Manual and the product specifications are subject to change without notice, and we assume no responsibility for any errors or omissions. Our company reserves the right to modify the Manual at any time.

PREFACE

This manual includes warning, caution and notice concerning the safe operation of equipment. These warning caution and notice come with the following icons. Please read them carefully!

WARNING

This icon indicates a dangerous situation that, if not avoided, may result in death or serious injury.

CAUTION

This icon indicates a warning that, if not avoided, may result in mild to moderate injuries.

NOTICE

This icon indicates precautions that, if not followed, may affect the effectiveness of use.

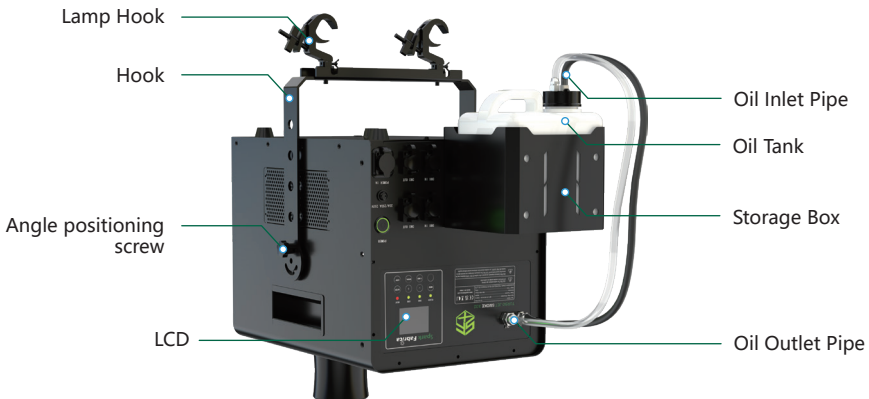
1 PRODUCT INTRODUCTION

This product is a special effects device and is for professional use only.

SF-XO2 PRO is the company's latest research and development of a heating core super-fast air jet that can replace the carbon dioxide air column machine. Compared with the carbon dioxide air column machine, it is not inferior in terms of explosive power and fast dissipation, and does not require bulky carbon dioxide cylinders. Only a small bottle of 3L SF -SH nano high-concentration fast-dispersing air column oil specially formulated by our company can easily complete the thick white fast-dispersing air column effect for more than 10 minutes . It also solves the disadvantage that the traditional carbon dioxide air column can only be used a dozen times before it has no explosive power. SF-XO2 PRO uses our company's latest wind vortex speed-increasing technology to make its explosive power quite amazing . It can produce a thick white and thick air column effect of up to 15M in one second . On this basis, we have also added 14*8W high -quality LED lights to render our air column with colorful colors. In terms of function, we have thoughtfully made oil-free detection and over-temperature detection protection, and the unique smoke instant stop function is safer and more convenient to use. Compared with the carbon dioxide gas column machine, the cost of use greatly reduces the transportation cost and consumables cost, making it a very cost-effective gas column product.

This product is widely used in weddings, concerts, sports events, event meetings, etc. Stimulate your interest and light up your activities.

1.1 PRODUCTION OVERVIEW



1.2 PRODUCT ACCESSORIES


1.6 Meter Power Plug or 3 Meters Power Pair Cable
3 Meter DMX Pair Cable
User Manual

NOTICE

Open the Package carefully and check to make sure the goods are in good condition.

1.3 PROFESSIONAL SUPPLIES

SF-S professional light air column e-liquid
SF-SH nano high concentration fast dispersing gas column oil

 **WARNING**

It is recommended to use only the consumables provided by our company. Machine damage, personal injury and the company does not assume any responsibility for property damage.

1.4 ADVANTAGES

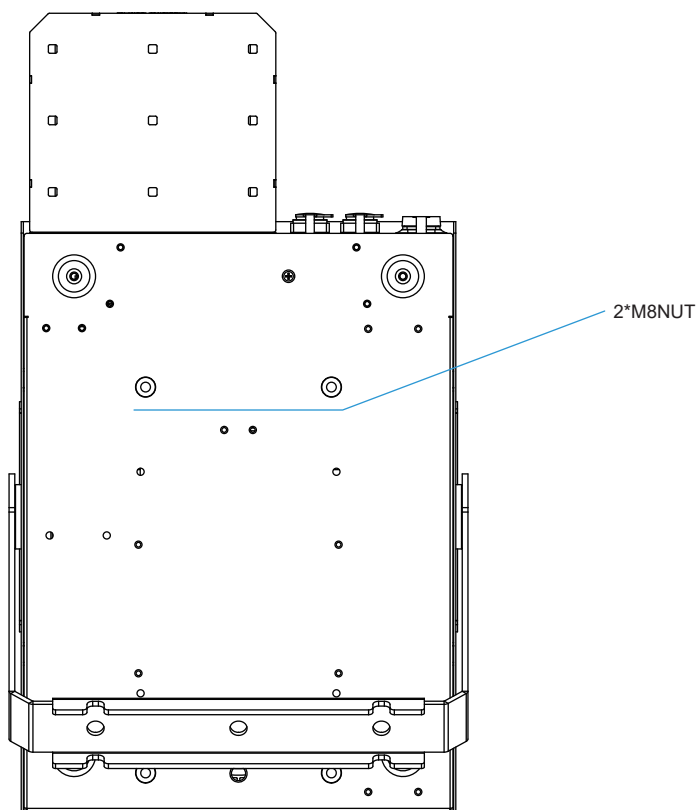
SF-X02 PRO – POWER, PRECISION, PERFORMANCE

- ★ Double Tube Stacking Design – Delivers massive smoke output for an electrifying effect.
 - ★ Instant Air Control – With a standing stop function, the air column fires and stops with precision.
 - ★ Brilliant LED Illumination – 14 × 8W high-quality LED lights enhance every burst with vibrant colors.
 - ★ Smart Safety Monitoring – Features no-smoke oil alerts and an overheat warning for worry-free operation.
 - ★ Wind Vortex Tech – Maximizes explosive power and boosts dissipation speed for dynamic performances.
 - ★ Versatile & Flexible – Supports inverted hanging and multi-angle spraying for ultimate stage impact.
 - ★ Next Level Smoke Effect – Paired with SF-S professional light gas column oil and SF-SH nano high-concentration dispersing oil for thick, fast-dissipating smoke.
 - ★ Unleash the Power—Command the Stage. Dominate the Show.
-

2 SPECIFICATIONS

Identification	Manufacturer	SPARK FABRICA
	Name	SMOKE JET
	Model	SF-XO2 PRO
AC Power	Input Voltage&frequency	100-120V, 60HZ 200-240V, 50HZ
	Constant Current	21.6A,100-120V / 15.9A,200-240V
	Nominal Total Power Consumption	25A,100-120V /20A,200-240V
	Power Consumption	2400W/3500W
	Led Power	8W*14PCS
Connector	Power Input Connector	SEETRONIC
	Dmx Signal Interface	3PIN&5PIN
Heating	Heating Time	<9minutes (220V),17minutes (110V)
Hooper	Liquid Tank Capacity	3L
	Split Hooper	N/A
	Effect Height	15m
	Smoke output	120000cuft/min
Control	Control	DMX-512
	Dmx channel	2/8
Accessories	Power Cable	SEETRONIC (1.6m)
	Remote	Optional
	DMX Cable	√ 3m
	Hook	X
	Safety Ring	X
	Bottom Screws	√
Authentication	120Ωfuse	Optional
	CE	√
Weight	ROHS	√
	N.W	33kg
Dimensions	G.W(1unit flight case)	50kg
	Machine Dimension	560mm*313mm*436mm
Consumption	1unit flight case size	602mm*447mm*628mm
	Consumption	SF-S\SF-SH

2.1 BOTTOM SCREWS INSTALLATION



3 ON-SCREEN OPERATING INSTRUCTIONS

3.1 BACK PANEL INTRODUCTION



3.2 KEY AND LED LIGHTS INSTRUCTIONS

<p>READY</p> <p>Device Readiness Indication: Flashing indicates it is heating up but has not yet reached the set temperature. Always-on light indicates that the machine's chip temperature has reached the smoke requirement.</p> <p>DMX</p> <p>DMX Input Mode Indication: Always-on indicates that a DMX signal has been received.</p> <p>ERR</p> <p>When there is a problem with the machine, this indicator light is always on and the LCD screen displays an error message.</p> <p>HEAT</p> <p>Power and heat indicator. Always on indicates heat in progress.</p>		<p>MENU</p> <p>Menu button, short press to enter menu setting.</p> <p>-</p> <p>Decrease Parameter, button for decreasing the set value or switching modes OFF/ON. Manual spraying.</p> <p>+</p> <p>Increase Parameter, button for increasing the set value or switching modes OFF/ON. Timed spraying.</p> <p>ENTER</p> <p>Save button for saving the change after setting. Stop manual spraying.</p> <p>TIMER</p> <p>Manual timing mode</p> <p>MANUAL</p> <p>Manual long spray</p> <p>STOP</p> <p>Manual stop</p>
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3.3 MENU SETTINGS

SETTING	DMX Address	1~512
	Power Mode	Full Power/Half Power
	Smoke Mode	Thick Smoke/Light Smoke
	Set RGBW OFF Delay	0-4s
	Fan Standby	ON/OFF
	Set Interval	0-200.0s
	Set Duration	0-8.0s
	Color Optional	0-10
	DMX Channel	2/8
	TFT BackLight	ON/OFF
	Set Lamp Switch	ON/OFF
	Set Temperature	280-330
	Set Pressure	0.8-1.6
	Language	English/ 中文
	Restore Defaults	YES/NO
	Information	SF-X02 PRO 20250321 CNxxxxxxxxxxxxxx

NOTICE

TO SET THE MANUAL JET COLOR
0: Colorless 1 : White 2: Red 3 : Green 4 : Blue 5 : Pink 6 : Purple 7 : Orange
8 : Yellow 9 : Sky blue 10 : color mixing cycle

NOTICE

When using a DMX console for control, the settings on this interface will not work, and the LED light display color is determined by the console.

3.4 MANUAL CONTROL SETTING

In Advanced menu , press "+" timer function, if the setting is as follows:

- ① "Set the interval time Interval 10s"
- ② "Set duration to 2s"

The spray will start for 2 seconds and then stop. 10 seconds , then 2 seconds of spraying, and so on.

In the main interface, press the " TIMER " key to enter the injection state, and press the "ENTER" key to stop injection.

NOTICE

According to Press the MENU key to enter the menu settings. If no changes are made, the screen will automatically return to the main menu interface.

NOTICE

According to - or + key to modify the parameter. The parameter will flash after modification. ENTER key to save the setting.

NOTICE

Press ENTER to return to the upper menu.

4 DMX PARAMENT LIST

4.1 2 CHANNEL MODE(LIGHTS OFF)

CHANNEL	FUNCTION
Channel 1 (CH1)	Smoke, OFF(0-10) , ON (11-255)
Channel 2 (CH2)	Pressure Relief/Fan Off (0 -10);Pressure Increase (11-150); Fan Idle,Pressure Increase (151-245) Pressure Relief/Fan OFF (246-255)

4.2 8 CHANNEL MODE(LIGHT CONTROL AVAILABLE)

CHANNEL	FUNCTION
Channel 1 (CH1)	Smoke, OFF (0-9) , ON(10-255)
Channel 2 (CH2)	Pressure Relief / Fan OFF(0 -10), Pressure Increase (11-150), Fan Idle/ Pressure Increase (151-245) Pressure Relief/Fan OFF (246-255)
Channel 3 (CH3)	LED Light Switch ,OFF (0-10) ON (11-255),OFF(246-255) LED white ,OFF(0-49) ON(50-245)gradually brighten
Channel 4 (CH4)	LED red, OFF (0-10), ON(11-255) gradually brighten
Channel 5 (CH5)	LED green ,OFF(0-10) , (11-255) gradually brighten
Channel 6 (CH6)	LED blue , OFF(0-10), ON(11-255) gradually brighten
Channel 7 (CH7)	LED Color Mixing, OFF (0-10), Color Mixing (11-255) (11-30)White,(31-50)Red,(51-70)Green,(71-90)Blue,(91-110)Pink (111-130)Purple(131-150)Orange(151-170)Yellow(171-190)Sky Blue (191-255)Color mixing cycle
Channel 8 (CH8)	LED strobe, OFF (0-10), Fast Strobe (11-255)

CAUTION

Channel 3 (CH3): LED light control switch, can turn on the light, used in conjunction with other light channels. When light control is required , it must be turned on first.

Note: When DMX is connected, the manual key function will be invalid.

5 OPERATING PRECAUTIONS

5.1 OPERATION PANEL INTRODUCTION

NOTICE

It is forbidden to open the casing and repair it by yourself, otherwise it may cause serious accidents .

NOTICE

Please make sure that the power supply voltage is consistent with the rated voltage of the device and use it with a grounding socket. Unplug the power cord to turn off the machine.

NOTICE

The machine is for adults only and should be kept away from flames, flammable and explosive items.

NOTICE

To ensure good heat dissipation of the device, please reserve 50cm of space around the device and do not cover the nozzle.

NOTICE

If the machine does not work properly, please stop using it immediately, cut off the power supply, and check the oil, fuse, connection wires and power cord. If the problem cannot be solved, please contact the manufacturer.

NOTICE

If smoke oil accidentally comes into contact with eyes, please rinse with clean water. If you accidentally drink it, please seek medical attention immediately if you feel any discomfort.

NOTICE

Please be sure to use the manufacturer's high-quality professional light air column smoke oil, otherwise the machine will spray water or become clogged! Do not add any other materials, such as color, to the oil barrel. Materials, perfume, tap water, etc.

NOTICE

When the machine is placed flat on the ground, the oil in the oil barrel should not exceed the maximum scale line to prevent oil spillage. Do not exceed the maximum scale line when placed sideways to prevent the oil from overflowing. When the device is inverted, the upper cover of the oil barrel should be installed facing the sky.

6 OPERATING THE MACHINE

1. You have fully understood the contents of the "Precautions" and have taken various safety protection measures.
2. Place the machine on a solid and level surface. The maximum recommended tilt angle should not exceed 15°.
3. Remove the oil cap, take out the oil barrel, and add the oil, being careful not to exceed the oil level line. Put the oil barrel into the machine, cover the oil cap and tighten it.
4. Insert the power connector accurately and firmly into the correct contact point. Since this device has high power, please pay attention to the load capacity of the power strip, power cord, and power plug. Use professional distribution box for stage lighting when necessary.
5. Turn on the power switch on the device, and the LCD screen will display "HEATING"
6. When the device has finished heating, the "Heating" HEATING " disappears, the temperature is close to 285 °C, at this time, it can be used normally.
7. After each injection, wait for a few seconds until the temperature stabilizes before starting the next injection.

6.1 UPSIDE DOWN INSTALLATION

The inverted installation method is as shown in the figure below. The bottom plate of the oil can needs to be disassembled and installed on the other side with the oil can facing upwards. A safety rope needs to be used for hanging.



6.2 CONNECTING THE MACHINE

Connect power and DMX signal cables

- * Connect the machine to the power plug.
- * Use DMX signal cable to connect other machines in parallel.
- * Connect to PYRO SIM CONTROLLER or DMX512 console.

6.3 SET DMX ADDRESS

Set the machine DMX address code according to the channel mode:

exist In 8-channel mode, please The DMX address code is set to 1, 9, 17, 25

NOTICE

Do not set the address code repeatedly.

7 TROUBLESHOOTING

ERROR MESSAGE	DESCRIPTION
E1 Pressure No Oil Protection	Wrong pressure, no oil in the tank or pump failure
E2 Ktemp.Sensor sensor failure	Temperature sensor failure
E5 Temp Over Over temperature error	Circuit Fault
E6 Heat Fail Heating failed	Heater damage or circuit failure

Oil-free alarm function description

In this machine, a program is used to detect whether there is oil in the current oil pipeline to protect the oil pump.

1. Start oil-free protection

In the working state, the system has not reached the preset pressure. It may be that the oil barrel is out of oil. The equipment enters the oil-free protection state. At this time, the pump stops working and the E1 alarm appears.

2. Clear the oil-free protection state

In the oil-free protection state, refill the oil barrel with oil and restart the machine.

8 MAINTENANCE AND CARE

CAUTION

Please use original professional light gas column smoke oil consumables to extend the service life of the equipment. Do not allow non-professionals to disassemble the equipment, and do not allow modification of the equipment. Be prepared to avoid danger.

CAUTION

Excessive dust, liquid residue and accumulated impurities on the equipment will reduce the working performance of the equipment and cause poor heat dissipation. You can use an air compressor, Clean with a vacuum cleaner or soft brush, dry towel or other tools.

CAUTION

It is recommended to heat the device at least once a month to keep it in optimal working condition.

CAUTION

Before storing the equipment, pour distilled water into the oil pot and start the spray to clean the oil system to avoid oil blockage . The water is clean, keep the oil pot clean or replace the oil pot and filter .

CAUTION

The oil system of the device may be clogged due to incomplete filtration of smoke oil or long-term frequent use. Therefore, regular maintenance can make the device perform better and last longer. It is recommended to clean the oil system with about 35% white vinegar mixed with 65% distilled water after the device has been used for more than 40 hours. System, it is best to spray 10-15 times after the equipment is heated.

9 ANALYSIS OF EQUIPMENT ATOMIZER BLOCKAGE

Please use original light gas column smoke oil consumables to protect your health and equipment life!

Oil injection failure: The heating atomizer cannot atomize the smoke oil in time and effectively, so that the smoke oil is poorly atomized in the equipment atomizer, resulting in a small amount of oil and smoke. It sprays out.

Reason 1: Using low-quality or counterfeit smoke oil. It is well known that some unscrupulous vendors use some impure raw materials or Harmful formulas produce inferior smoke oil, which not only harms your health, but also has poor smoke effect and is more likely to clog the atomizer pipe, causing Atomization is incomplete, and smoke oil is sprayed out.

Reason 2: The smoke oil used is not the smoke oil consumable specified by the product and different smoke oil consumables are mixed, resulting in incomplete atomization . There is oil spraying phenomenon.

Heating atomizer blockage fault: Poor atomization and oil injection are early signs of heating atomizer pipe blockage. Using inferior smoke oil or not maintaining and cleaning the equipment for a long time, The heating atomizer will inevitably become clogged in the late stage. Similar to the scale formed by long-term use of a kettle, the probability of scaling is greater when the water quality is poor.

Solution: The heating atomizer pipe of the equipment has been used for a long time, and the pipe wall has dirt attached to the wall (the lower the quality of the smoke oil, the more impurities there are, which will cause oil injection and pipe blockage. All fog machine equipment must be maintained regularly (the fog machine maintenance cycle is generally 1-2 months/time). Specific maintenance method: Mix about 35% white vinegar Use 65% distilled water to clean the oil system. Spray 10-15 times after the equipment is heated.

In summary: if the fog machine equipment has oil spray and atomizer blockage after using it for a period of time, it is due to poor quality of fog oil or lack of maintenance. It has nothing to do with the quality of the equipment. In order to better use the equipment, please use professional and high-quality smoke oil and maintain it in time, so that it can be used healthily and for a long time use.

*Invoice and warranty card are necessary when applying for maintenance service from SPARK FABRICA.

WARRANTY CARD

Product Name:		Serial No:	
Purchase Date:			
Tel:			
Address:			
Info.Feedback About The Problem:			
Actual Problem:			
Maintenance Detail:			
Service Engineer:		Service Date:	



www.sparkfabrica.com



| marketing@sparkfabrica.com

| +86 138 7585 1139