

# CO<sub>2</sub> JET

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# SF-C24

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# USER MANUAL

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## 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 will 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. If the information contained in the manual or the product specifications are changed, Spark Fabrica will not inform you further and is responsible for any errors or omissions. Our company reserves the right to modify the user 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 warning indicates a dangerous situation that may result in death or serious injury if not avoided.

### NOTICE

This means that you need to be careful.

### CAUTION

This means that you need to be careful.

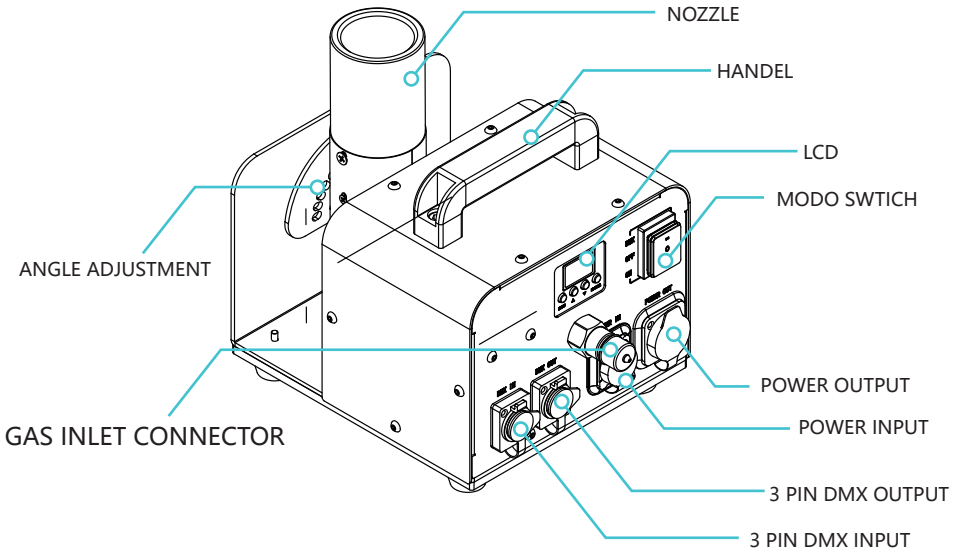
# 1 PRODUCT INTRODUCTION

SF-C24 is a compact CO2 gas column effect machine, with a small size, light weight, soft sound, unique low noise design, and can quickly spray white gas column effects up to 10 meters high. It has adjustable angle, flexible installation, manual and DMX two kinds of control mode, strong adaptability. Widely used in large-scale concerts, stage interpretation, bars and clubs.

## 1.1 ADVANTAGES

- ★ High smoke output and fast dissipation
- ★ Fast response, Spray height up to 10-12M
- ★ DMX512 signal control and manual control
- ★ Adjustable angle
- ★ Professional anti-drop power socket
- ★ Small size, light weight, soft sound, unique low noise design
- ★ Digital tube control interface and support DMX-512 signal control
- ★ The height of the gas column can reach 10-12 meters, very powerful and shocking;
- ★ CO<sub>2</sub> consumption is low. Note: Actual parameters and effects may vary depending on the environment.

## 1.2 PRODUCTION OVERVIEW



1.3 PRODUCT ACCESSORIES

|                                                   |
|---------------------------------------------------|
| 1.6 Meter Power Plug or 3 Meters Power Pair Cable |
| 3 Meter DMX Pair Cable                            |
| 6 Meter Quick Coupling Air Hose(Optional )        |
| User Manual                                       |

NOTICE

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

1.4 CONSUMABLES

High-purity CO<sub>2</sub>

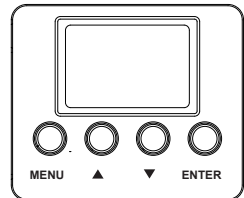
## 2 SPECIFICATIONS

|                |                         |                                           |
|----------------|-------------------------|-------------------------------------------|
| Identification | Manufacturere           | SPARK FABRICAC                            |
|                | Name                    | CO2 JET                                   |
|                | Model                   | SF-C24                                    |
| AC Power       | Input Voltage&Frequency | AC 100-120V , 60HZ<br>AC 200-240V , 50 HZ |
|                | Power Consumption       | 24W                                       |
| Height         | Height of gas column    | 10-12m                                    |
| Angle          | Adjustable              | 0-180°                                    |
| Control        | Electrical control      | √                                         |
|                | DMX Channel             | 2                                         |
| Weight         | N.W                     | 7.7Kg                                     |
| Dimensions     | Machine Dimension L*W*H | 274mm*199mm*227mm                         |
| Consumption    | Consumption             | High-purity CO2                           |

## 3 ON-SCREEN OPERATING INSTRUCTIONS

### 3.1 BACK PANEL INTRODUCTION

Press "MENU" to enter the menu settings, without making any changes, the screen will automatically return to the main menu interface.  
Press the "▲" or "▼" key to adjust the value, and press the "ENTER" key to save the setting.



3.2 DMX PARAMENT LIST

| CHANNEL 1 | FUNCTION                   |
|-----------|----------------------------|
| 0-10      | OFF                        |
| 11-255    | ON (Jet)                   |
| CHANNEL 2 | FUNCTION ( Safety Channel) |
| 0-50      | OFF                        |
| 51-200    | ON (Safety Lock Is Open)   |
| 201-255   | OFF                        |

4 MACHINE INSTALLATION

4.1 INSTALLATION PRECAUTIONS

CAUTION

Pipe connection sequence: non-quick coupling first, then quick coupling.

CAUTION

Pay attention to protect the quick coupling during the connection process, avoid friction and impact between the quick coupling and hard objects (e.g. floor), and keep the quick coupling clean. Otherwise, the quick coupling may not be able to seal and leak.

CAUTION

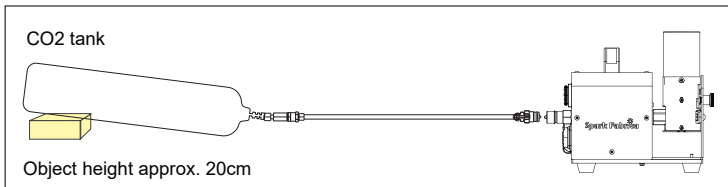
Due to the very high air pressure in the pipeline during operation, the tank connector must be tightened vigorously with a wrench, otherwise it may lead to air leakage.

CAUTION

After the piping is connected, test the electrical performance of the gas column first, before turning on the CO2.

## 4.2 INSTALLATION INSTRUCTIONS

- 1、 After checking to make sure that the machine and accessories are undamaged, place the machine in a flat position and install each unit in its place.
- 2、 Connect each unit with a connecting tube, adjust the direction of the nozzle and lock it tightly, and connect the power cords of the machine (one power cord for each machine to connect to the matching power supply).



### NOTICE

Before using the CO2 tank, please make sure how the tank is used, whether it is placed vertically or horizontally. If the tank is not used in the proper way, the gas column will be very light. Place the tank horizontally and pad it with an object of about 20 cm, the bottom of the tank must be higher than the top.

## 4.3 ELECTRICAL PERFORMANCE TEST METHODS

With an electric or DMX control, test whether the solenoid valves of each gas column have switching action, and the solenoid valves will sound when have switching action.

### NOTICE

After the electrical performance test, prohibit people close to the gas column directly above. Slowly open the valve of the CO2 tank, pay attention to not open all the valve quickly, listen to whether there is a leakage sound while opening. After confirming that there is no gas leakage, then open the valve completely.

**NOTICE**

If there is a gas leakage, immediately close the tank's valve, make sure to clean the gas in the leaky connector and pipeline before connecting. If it is non-quick coupling leakage is generally because not tightened, tighten it with a wrench then the problem can be solved. If it is a quick coupling leakage is generally because not connected correctly, at this moment can not be immediately reconnected. After separating the quick coupling and wait for more than 10 minutes, when the quick coupling return to normal temperature and then connect it.

**NOTICE**

If the length of the pipe is more than 10 meters, the gas column will be smaller in the first spaying during 2s-3s, which is normal phenomenon. This is because there is air left in the pipe during the first connection.

**4.4 SAFETY PRECAUTIONS**

**NOTICE**

Before turning on the power, confirm if the power supply voltage matches the nominal voltage of the machine and use a grounding type socket.

**NOTICE**

As long as CO<sub>2</sub> is flowing through the tubing, no one should be near the top of the gas column.

**NOTICE**

CO<sub>2</sub> must be drained from the pipe before disconnecting it.

**NOTICE**

The place of use should not be too small and need be well ventilated.

## 4.5 OTHER PRECAUTIONS

### NOTICE

When not using, need to clean each air inlet and outlet on a regular basis to prevent clogging with sand and dust and prolong service life.

### NOTICE

The maximum service life of the connecting tube is 1 year, after 1 year the tube needs to be replaced with a new one for use.

### NOTICE

Open the package to make sure that all the equipment of the machine is complete, and check if there is any damage during delivery. If any damage is found, please do not plug in or use it, and contact us immediately.

## 5 OPERATION OF MACHINE

### MANUAL CONTROL

Slowly open the knob valve of the CO2 tank and turn the switch of machine to "ON" to realize the perfect effect. To stop the machine, turn the switch to "OFF".

### DMX CONTROL

Two channels of DMX

Channel 1: (0-50)OFF,(51-200)ON,(201-255)OFF

Channel 2: (0-10)OFF,(11-255)ON

### 5.1 DESCRIPTION OF BUTTON AND DISPLAY

Tap position — : DMX Digital tube display: DMX address"001."

When the DMX signal is connected, a red dot blinks in the lower right corner of the digital tube. Press the key "△" or "▽" to adjust the address code value, press the key "ENTER" to confirm the setting.

Tap position = : ON Electronic control ON Digital tube display: H

Tap position ● : OFF Electronic and DMX control OFF Digital tube display:



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