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FODEXAZY ZQ16047

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Model: ZQ16047

1. INTRODUCTION

Thank you for choosing the FODEXAZY 700W Cold Spark Machine. This device is designed to produce spectacular, safe, and low-temperature spark effects for various events such as concerts, weddings, parties, and stage performances. This manual provides essential information for the safe and efficient operation of your cold spark machine. Please read it thoroughly before use.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in fire, electric shock, injury, or damage to the product or property.

- The ejected spark cannot touch any object in the air. It is forbidden to block the cover of the flame machine.
- When the flame is sprayed, please maintain a safe distance of more than 3 meters.
- Do not block the air inlet and the air outlet; doing so may impact the machine's electrical components and cause electric shock.
- Non-professionals are prohibited from opening the machine for repair.
- Flammable materials must be kept a safe distance from the machine.
- The machine is equipped with a tilt protection device and intelligent material discharge function for safe use.
- The spark temperature is below 40°C, making it safe to touch, but caution is always advised.

SAFE COLD SPARK

The Spark Can Be Touched And Your Hands Won'T Be Hurt



Figure 2.1: Safe Cold Spark - The spark temperature is below 40°C, allowing for safe interaction.

3. PRODUCT FEATURES

- **Dual-Motor Durability & Silent Operation:** Dual-motor drive ensures smooth, quiet performance (< 40 dB) with minimized failure rates. Constructed from aluminum alloy, steel, and plastic, featuring a portable handle and IP20 protection for robust, durable use.
- **Intelligent Safety & Control Flexibility:** Prioritizes safety with tilt protection and intelligent material detection. Control via a 433 MHz remote control (15m range), DMX512 (3CH), or master/slave modes. Connect up to 5 units via two DMX/power interfaces for synchronized displays.
- **Spectacular Visuals for Any Event:** Launches cold flames vertically up to 5.5m with 4 adjustable height speeds (2.5-5.5m). Low-temperature sparks (< 40 °C) and 35 g/min consumption ensure safe and fascinating effects for concerts, weddings, festivals, and celebrations.
- **High-Efficiency Performance:** Experience stunning, vibrant sparks with 700W electromagnetic induction heating for uniform heat distribution. Enjoy low energy consumption, a 4-minute preheating time, and a 90-second spray duration for fast, reliable effects.

- **User-Friendly Design & Portability:** Compact unit measuring 24 x 19 x 20 cm (5 kg) includes a 200g consumable tank, a 4-digit display, and XLR signal ports.



Figure 3.1: Humanized Design Features - Highlighting the portable handle, display, ventilation, and durable aluminum alloy construction.

4. SETUP

1. **Unpacking:** Carefully remove the cold spark machine and all accessories from the packaging. Verify all components listed in the kit are present (power cord, 8-key remote control, 1.2m signal cable, manual).
2. **Placement:** Place the machine on a stable, level surface. Ensure there is adequate clearance around the machine for ventilation and spark projection. Maintain a minimum distance of 3 meters from flammable materials and audience.
3. **Power Connection:** Connect the power cord to the machine's power input (220V/50HZ or 110V/60HZ) and then to a suitable power outlet. Ensure the power switch is in the OFF position before connecting.
4. **Consumable Loading:** Open the consumable tank cover and carefully pour the cold spark powder into the tank. The tank capacity is 200g. Close the cover securely after filling.

5. **DMX Connection (Optional):** For DMX control, connect a DMX cable from your DMX controller to the DMX IN port of the machine. If linking multiple units, connect from DMX OUT of the first machine to DMX IN of the next.

ADJUSTABLE SPARK HEIGHT 2.5-5.5M FOR DIFFERENT SHOW EFFECT



Low Mode
Height 2.5M

High Mode
Height 5.5M

Figure 4.1: Rear Panel Connections - Illustrates the power input, DMX ports, and power switch.



Figure 4.2: Loading Consumables - Demonstrates how to add the cold spark powder to the machine.

5. OPERATING INSTRUCTIONS

5.1 Power On and Preheating

1. After connecting power, switch the machine to the ON position. The 4-digit display will illuminate.
2. The machine will begin preheating. This process takes approximately 4 minutes. The display will show a preheating indicator.
3. Once preheating is complete, the "READY" indicator light will turn on, and the machine is ready for operation.



Figure 5.1: Powering On - Activating the main power switch.

5.2 Remote Control Operation

The included 8-key remote control allows for convenient wireless operation within a 15-meter range. Ensure the remote control has working batteries.

Remote Control Functions

Button	Function
Heat On	Initiates preheating.
Heat Off	Turns off heating.
High 30s	Sprays at high intensity for 30 seconds.
Low 30s	Sprays at low intensity for 30 seconds.
High 90s	Sprays at high intensity for 90 seconds.
Low 90s	Sprays at low intensity for 90 seconds.
Clear	Initiates cleaning of preheating consumables.
Stop	Stops spraying.



TWO ADJUSTABLE SPRAYING TIMES

There Are Two Spray Times, 30 Seconds And 90 Seconds, Designed To Cope With Different Occasions And Customer Needs.

Figure 5.2: Remote Control - Overview of the remote control and its functions.



Figure 5.3: Adjustable Spark Height - Illustrates the difference between low (2.5m) and high (5.5m) spark modes.

5.3 DMX512 Control (Advanced)

The machine supports DMX512 control with 3 channels. Refer to your DMX controller's manual for specific programming instructions. Connect the DMX cable to the DMX IN port and set the DMX address using the machine's display and buttons.



Figure 5.4: Display and Control Buttons - Used for DMX addressing and manual settings.

6. MAINTENANCE

- **Regular Cleaning:** Periodically clean the exterior of the machine with a soft, dry cloth. Ensure the air inlet and outlet vents are free from dust and debris to maintain proper ventilation.
- **Consumable Management:** Always use recommended cold spark powder. After each use, if there is remaining powder, ensure the tank is sealed to prevent moisture absorption. If the machine will not be used for an extended period, it is advisable to empty the consumable tank.
- **Internal Cleaning (Clear Function):** Use the "Clear" function on the remote control to clean the preheating consumables. This helps prevent blockages and ensures consistent performance.
- **Storage:** Store the machine in a cool, dry place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
Machine does not power on.	No power supply; power cord loose; power switch off.	Check power connection; ensure power switch is ON; try a different outlet.
No sparks after preheating.	No consumable powder; powder damp/clogged; remote control battery low; DMX settings incorrect.	Add powder; use dry powder; replace remote battery; check DMX address and channel settings. Use "Clear" function.
Spark height is inconsistent or too low.	Insufficient powder; clogged nozzle; incorrect mode selected.	Ensure sufficient powder; use "Clear" function; select "High" mode on remote or DMX.
Machine is noisy.	Fan obstruction; internal issue.	Ensure vents are clear. If noise persists, contact support.

8. SPECIFICATIONS

Feature	Detail
Product Material	Aluminum Alloy
Power	700W
Input Voltage	AC220V/50HZ or AC110V/60HZ
Fuse	5A or 10A
Preheating Time	Approx. 4 minutes
Control Mode	DMX512, Remote Control
Control Channel	3 Channels (DMX)
Jet Height	2.5 meters to 5.5 meters (Adjustable)
Display Panel	4-digit LED Display
Operating Temperature	-10° to 50°C
Cooling Mode	Integrated Fan
Application Field	Outdoor/Indoor
Dimensions (L x W x H)	24 x 19 x 20 cm (approx. 9.45 x 7.48 x 7.87 inches)
Weight	5 kg (approx. 11 lbs)

Matériau du produit : Alliage d'aluminium
 Puissance : 700W
 Tension d'entrée : CA220V/50HZ ou CA110V/60HZ
 Fusible : 5A ou 10A
 Temps de préchauffage : Environ 3 minutes
 Mode de commande : DMX512, Télécommande
 Canal de commande : 2 canaux (2CH)
 Mode de fonctionnement : Télécommande, Commande DMX
 Hauteur de jet de télécommande : 2,5 mètres à 5,5 mètres
 Tableau d'affichage : LCD
 Température de fonctionnement : -10° à 50°
 Mode de refroidissement : Ventilateur intégré
 Champ d'application : Extérieur/Intérieur



Figure 8.1: Product Dimensions and Specifications.

9. WARRANTY AND SUPPORT

Information regarding specific warranty terms and conditions is not provided in this manual. Please refer to your purchase documentation or contact the seller, CHENGSI STORE, for warranty details and technical support. For further assistance, you may also visit the FODEXAZY brand page on Amazon or contact Amazon customer service.

