

Operation Manual

Battery Powered ULV Cold Fogger

(Electrostatic type)

SF-XDCD(751)



Dear customer,

Thank you for choosing our electrostatic battery powered ULV cold fogger. Please read the operation manual carefully before use and strictly follow the safety instruction to prevent product malfunctions that affect your normal use or cause unnecessary losses. We hope that you can read this operation manual to operate our product safely, correctly and efficiently, maintain the best operating condition of the product, so as to improve the efficiency of the product.

Regarding the after-sales service and maintenance, please contact our sales manager directly, we will provide you with exclusive services for technical guidance and maintenance of this product.

We are committed to the constant optimization and improvement of product design, we will appreciate your valuable suggestions or advices.

I	Illustrated parts	3
II	Technical parameters	4
III	Basic working principle	5
IV	Operation instructions	5
V	Battery usage and maintenance	7
VI	Common failures and troubleshooting	8
VII	Cautions	9
VIII	Warranty service	10
IX	Packing list	12

I Illustrated parts



1.air duct

2. shell

3.charging port

- 4.spout plug 5. cap 6. tank
- 7.bottom shell 8. static electricity 9.power adapter
- 10.belt 11. battery 12.ground
contact pad
13. rocker switch 14.Electrostatic bracelet

II Technical parameter

Model	SF-751
Parameter	
Rated Voltage	DC24V

Rated power	240W
Spray volume	80-150ml/min
Droplet size	< 50 μ m
Spray distance (calm wind)	5-8m
Working time	50-60mins
Machine size (L \times W \times H)	640*130*225mm

III Basic working principle

The electrostatic battery powered ULV cold fogger use high-power super speed brushless DC motor, the high speed motor can drive the fan blade to produce high-speed rotating air, meanwhile, the liquid is delivered to the micro nozzle with constant flow rate and high speed air flow, under the action of high-speed rotating air and special structure of nozzle, the liquid is broken into tiny droplets.

The electrostatic fogger makes the micro droplets with electrostatic charge, which makes the spraying droplets disperse more widely, adsorb more strongly and have better uniformity.

IV Operation instructions

1. Add the prepared liquid into the tank, and tighten the cap after adding. Note: Do not add liquid beyond the maximum capacity of the tank (2L), and do not pour the liquid into the gap between the tank and shell to avoid battery failure.



2. Booting process:

1) Firstly, hold the contact piece and wear the electrostatic bracelet.



2) Secondly, turn on round button switch on the right side.



3) Thirdly, switch on the red electrostatic button.



4) When finish the work, turn off the red button first, then move the hand from the contact piece, and take off the bracelet, the switch off the round button.

5) After spraying the liquid, first clean the residual liquid in the tank with clean water, pour it out, and then add a small amount of clean water to spray for 1-2 minutes, to prevent the liquid from clogging or corroding the nozzle and pipes.

V. Battery usage and maintenance

In order to facilitate continuous work and use by customers, this machine can optionally be equipped with one spare battery.

1. Charging instructions: When the battery is charging, the indicator light of the charger turns red. When the indicator light of the charger turns green, it means that the battery is fully charged.

2. The whole machine charging scheme: The machine must be placed in a safe, dry and normal temperature environment for charging; the rocker switch must be turned

off to ensure the shutdown state when charging; the machine should be placed stably when charging, and the charger plug must be charged with the side of the machine connect the interface, continue charging until the indicator light turns green; the charging time is 5-6 hours.

VI Common faults analysis and trouble shooting

1. Fault phenomena: the motor does not run.

Analysis: (1) The battery power is not enough.

Trouble shooting: Check if the rocker switch is open.

Restart the machine to test after charging the battery. (Refer to V.1.)

Analysis: (2) Overload operation and protection device works.

Trouble shooting: Stop working, place it in a ventilated place, it will work normally after the protection device is released.

2. Fault phenomena: The motor runs but the machine does not spray.

Analysis: (1) The tank is not filled with liquid.

Trouble shooting: Check whether there is liquid in the tank.

Analysis: (2) The tank cap is not tightened.

Trouble shooting: Tighten the tank cap.

Analysis: (3) The nozzle is blocked.

Trouble shooting: Remove the nozzle to clean.

Analysis: (4) The nozzle was not installed correctly after disassemble

the nozzle.

Troubleshooting: Please contact our company to guide the installation

VI Cautions

1. The battery should be charged completely before using.
2. If the liquid goes inside the machine, please wait for it to dry completely before turning on it.
3. The ambient temperature of this product is controlled between 0~40°C, Do not hit the machine with heavy or sharp objects, to prevent falling from high places, you must use the special battery configured with this product. It is strictly prohibited to use other types of batteries to avoid damage to the product.
4. Please keep the rocker switch closed when you stop using the equipment and charging.
5. If the machine is not used for a long time, please store the battery fully charged and charge it once a month.
6. It is forbidden to use strong corrosive liquids. Water-soluble liquids must be completely dissolved. The liquids added to the tank must be free of impurities to prevent the pipe from being blocked.
7. Please power off the machine immediately if the following situations

occur during use:

- 1) Water enters inside the machine;
 - 2) The motor suddenly stops running;
 - 3) The sound of the motor has changed significantly;
 - 4) Leaking liquid in the tank;
 - 5) The motor does not rotate or other abnormal conditions when starting.
8. Power off the machine in time after using, then clean the tank thoroughly with clean water, and put the product in a safe place to avoid water, direct sunlight, bumps and children's reach.
9. Except the electrostatic contact piece, it is strictly prohibited to touch the metal parts of the machine to prevent electric shock during using.
10. It is strictly forbidden to use this product in the rain. It is strictly forbidden to "plug" or "unplug" the battery plug and charger with wet hands. The product should be kept away from flammable, explosive and high temperature places.
11. In case of abnormality, please contact our company. Disassembly without permission is strictly prohibited.
12. The combustible gas and flammable disinfectant are strictly prohibited.
13. When you turn on or off the electrostatic switch, please be sure to touch the electrostatic contact piece with your hand or wear the electrostatic bracelet.

VIII Warranty Service

1. One-year warranty is provided for the main components of the machine

List of major components:

1) Motor

2) Electronic control board

3) Battery (warranty for liquid leakage, plastic shell cracking, etc.

Except for human factors and external damage, water enters into the battery bottom.)

4) Power adapter

5) Tank

6) Nozzle

Parts that are not in the main components list are offered with warranty for 3 months (human factors, external damage or improper use are not included)

2. The below circumstances are not included in the warranty service:

1) The blockage and damage of equipment because of using strong corrosive liquid.

2) The faults or damage because of manipulating the structure and replacing the parts of equipment without authorization.

3) Not following the instructions of use and maintenance.

4) Man-made damage caused by improper or overuse.

5) Damage caused by irresistible natural forces, such as earthquakes, floods, fires, etc.

IX Packing List

NO.	Item	Specification	QTY	Remarks
1	Battery powered ULV cold fogger		1	

2	Charger	DC24V 1.8A	1	
3	Screwdriver		1	
4	Belt		1	
5	Sponge		1	
6	Nozzles	0.8mm 1.0mm (Installed on the machine) 1.5mm	1	0.8mm < 40µm 1.0mm < 60µm 1.5mm > 60µm
7	O-ring	8.5*1.8 mm	1	
8	Operation manual		1	
9	Electrostatic bracelet			