

YAMAHO ELECTROSTATIC BACKPACK SPRAYERS

Electro-Force Cordless Electrostatic Sprayer Operation Manual

Electrostatic sprayer refers to a sprayer that can cause the sprayed droplets to produce a significant electrostatic entrapment adsorption effect. The electric electrostatic sprayer is a backpack- type electric sprayer with static electricity. The sprayer combines many advantages such as electric spray, low-volume spray and electrostatic spray. It has a series of advantages such as saving disinfectant, saving water, reducing pollution, excellent effects, light body, improved efficiency, reduced body consumption, and reduced agricultural costs. It is an ideal high-efficiency plant protection and killing equipment in the fields of modern rural plant diseases and insect pests prevention and control, sanitation and epidemic prevention and disinfection and insecticide.

Warning: If the solution overflows from the mouth of the barrel, and wet the outer surface of the barrel or the clothes or body of the operator, it will easily lose the electrostatic adsorption effect and cause the phenomenon of poisoning and electrostatic leakage to stimulate the skin.

Therefore, be sure to tighten the lid during operation to prevent spillage of the liquid from the mouth of the bucket. If soluble powder is sprayed, the pump and nozzle should be cleaned in time, and charged after the operation. The machine should not use wettable powder.

Safety and operation precautions

1. Must pay great attention to the filtration of chemical liquid and water, so as not to block the nozzle and affect the operation. If the nozzle is blocked, the particulate matter can be removed and the machine can be turned on again when the machine is stopped.
2. The operator must understand the performance and protective methods of the agent used to avoid poisoning accidents caused by direct body contact with pesticides. Avoid spraying with chemicals that have a corrosive effect on plastics and metals. Please do not spray wettable powder to avoid damage to the pump and nozzle clogging.
3. After using the machine, clean the inside of the tank and the spray system with clean water in a timely manner and wipe it clean, then place it in a suitable place indoors for proper storage. Cleaning method: After spraying the liquid medicine, pour clean water into the storage tank, and spray it for 15 seconds after starting up, pour out the remaining clean water and wipe it clean.
4. It is forbidden to immerse the spray head and the fuselage in water to avoid damage to the motor, battery and electronic components by moisture. It is forbidden to use the machine in a flammable and explosive environment.
5. During operation, pay attention to keep the outer surface and handle of the barrel clean and dry. It is forbidden to make limb contact with other people during operation. It is forbidden to touch the spray rod, nozzle and charging socket of the barrel during operation. After the operation, the handle switch should be turned off before turning off the power switch, so as to avoid electrostatic induction stimulation.
6. Please note that if an alarm sounds in the machine, it should be charged in time. After charging, please leave it for 10 minutes before use. When the battery is not used for a long

time, the battery should be maintained and charged no less than once a month. Correct use and maintenance of the battery can greatly extend the service life of the battery.

7. There are tens of thousands of volts in the machine, it is strictly prohibited to disassemble the machine by yourself.

8. The use of special working fluids such as strong acids and bases is prohibited.

9. When using pesticides, follow the safety instructions provided by pesticide manufacturers.

10. Due to the high humidity and water vapor in the greenhouse, please do not store the machine in the

greenhouse to avoid dampening the electrical circuits in the machine, affecting the electrostatic adsorption effect of the spray and generating electrostatic leakage.

Description of safety warning signs

Working principle

This machine uses a 12V lead-acid battery or a lithium battery as a power source. The high-voltage electrostatic generator charges the drug solution. At the same time, the drug solution is pressurized through the diaphragm pump and directly extruded from the small nozzle hole. Under the combined action of external force and electrostatic force, the sprayed tiny droplets directly run to the front and back of the crop (target) and are firmly absorbed by the stems and leaves of the crop, thereby achieving the purpose of efficient disinfection, insecticide and sterilization.

Scope of application

This machine is suitable for the prevention and control of diseases and insect pests of low and sparse crops and various agricultural and forest crops such as tea, tobacco, flowers, fruit trees (especially suitable for greenhouse crops). It can be used for spraying insecticides, fungicides, herbicides, plant hormones, foliar fertilizers, etc., and can also be used for sanitation and epidemic prevention and disinfection and sterilization of plants, warehouses, stations, docks, airports, shopping malls, offices, etc. Spray various liquids, emulsions and soluble powders. After spraying soluble powder, the pump and nozzle should be cleaned in time.

How to use

1. Operation procedures: Tighten the lid after dispensing, first turn on the main power switch (the red light is on) and the electrostatic control switch (the green light is not on at this time, the green light will only light up in the working state), and put the storage tank on. On the back, hold the spray bar handle, hold the reinforced electrode (bar stainless steel at the handle), and then turn on the handle operation switch to spray the spray head toward the crop. After spraying, press the handle switch first, and then cut off the static control switch and the main power switch.

2. Spraying method: when spraying, start from the upper wind head of the field, so that the spray head is in front of the side of the lower wind head of the human body, so that the pesticide is sprayed while walking forward along the wind direction, so that the sprayed fine mist drifts and adsorbs on the crops to avoid human pollution. When spraying, you can walk at a speed of more than one step per second. The spray width (including shaking) of the liquid is about 3 ft. For example, if you walk a distance of 1000-1200 feet every 10 minutes. The height of the

nozzle can be adjusted to avoid re-spray and miss-spray. It is forbidden to spray crops repeatedly to avoid over-medication of crops.

3. Strengthening device: In order to strengthen the electrostatic adsorption effect of the spray, the machine is equipped with a strengthened induction electrode (strip of stainless steel) on the handle. When working, press and hold the strengthened induction electrode by hand to play the role of strengthening the electrostatic adsorption effect.

4. Spraying time: During the hot summer season, the effect of spraying before 11 a.m. and after 2 p.m. is better (the greenhouse operation is not limited to this). However, in case of strong winds, the direction and scope of the medicine fog may be difficult to control due to the drift of the medicine mist, so it is not suitable for use. It is not suitable for use in rain and snow and thick fog. The ambient temperature of this machine is above 32 ° F and below 105 ° F.

Machine Parameters

Measurement (mm)	380 × 190 × 540	Working speed	3300 m ³ /h
Machine weight (with battery)	12 lb (Lead-acid batteries)	Spray range	Around 2 meters (swing)
	11 lb (lithium battery)		
Tank capacity (g)	4.25g!	Water consumption	About 3L per 660 m ³
Working Voltage	12V	Continuous working time after a full charge	About 6hours
Working Pressure	0.15-0.4Mpa	Fog droplet median diameter	≤120um
Batter	12V 7aH	Spray flow	About 15L/h (Single nozzle)
Charger input / Output voltage V	AC 120 / DC12-14.8	Static generator output voltage	20-30KV



