

Electrostatic Sprayer

Model: CS-4010



Important

For your safety, please read this manual carefully before operation

Manufacturer: Qingdao Chanshan Environmental Equipment Co. Ltd.

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MANUFACTURE YEAR: 2020

Product Introduction

CS-4010 electric sprayer is intended to use for spraying disinfectant and non-flammable materials.

CS-4010 electric sprayer is the electric aerosol generator developed by our company, which can achieve three functions of air disinfection, surface disinfection and immune administration by replacing the nozzles. With simple operation, convenient carrying and high spray efficiency, this equipment is suitable for disinfection of viruses and bacteria in hospitals, schools, hotels, entry and exit inspection and quarantine, customs, transportation tools, elevators and other places, as well as immune administration in farms, veterinary hospitals, pet hospitals and animal epidemic prevention places.

Product Features

CS-4010 electric sprayer is provided with aerodynamic cutting sprayer, which is characterized in that the liquid is chopped and dispersed at the nozzle by high-speed turbulent air flow and then ejected with the air flow. Due to long spray distance, dispersed droplets and less aggregation, the particle size is more meticulous and uniform than other sprayers. The droplets of different particle sizes can be sprayed by replacing the nozzles. Spray particle size corresponding to three nozzles is 10 μ m, 30 μ m and 50 μ m, respectively. The product has the advantage that the droplets smaller than 10 μ m can be used for inhalation administration; 10-30 μ m suspension aerosol can be used for air disinfection. If the mist is smaller, the specific surface area will be larger, and it will be easier to adhere to viruses and microorganisms in the air. suspended in the air for up to 15 minutes, it can efficiently kill viruses and bacteria in the air. 30-50 μ m droplets can be deposited on the surface of the object for disinfection.

Product structure

The product is mainly divided into four parts - sprayer, tank, host and filter

Product structure diagram Introduction of main functions

Sprayer: It contains nozzle and air pressure valve. Select different nozzles and adjust the range of spray particle size. The air pressure valve controls the supply of liquid by air pressure.

Tank: Used for the storage of reagent to be sprayed

Filters: Air filtration, dust removal, dehumidification

Warning! Before use, check if the leakage protection plug and the power cord are damaged and excessively distorted, whether the liquid leaks, whether the filter cotton is flooded. Take appropriate measures or refer to professional maintenance staff if any.

Warning! Do not add flammable liquids such as alcohol to the tank.

Technical parameters

Rated voltage/frequency: 220-240V~, 50Hz

Rated power: 1350W

Speed:36700/min

Working temperature range: 0-40°C

Operating humidity: 0-100%

Spray range when no wind:> 12m

Enclosure material: Corrosion-resistant and high-strength engineering plastics

Product dimension: 52cm×14cm×23cm

Particle diameter:

Nozzle D50=10μm 10μm±10μm

Nozzle D50=30μm 30μm±10μm

Nozzle D50=50μm 50μm±10μm

Volume of tank: 2L




Sound pressure level(no load) : 87dB(A) , k=3 dB(A)

Sound power level(no load) : 97dB(A) , k=3 dB(A)

Vibration emission value: 1.34m/s², k=1.5 m/s²

Noise and vibration emission values are measured according to EN 62841-1:2015 and EN 50580:2012+A1.

Symbols:

	Read the manual instructions carefully.
	Wear protective clothing
	Wear eye protection

General power tool safety warnings

⚠ WARNING Read all safety warnings, instructions, illustrations and specifications provided with this power tool. *Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.*

Save all warnings and instructions for future reference.

1) Work area safety

- a) **Keep work area clean and well lit.** *Cluttered or dark areas invite accidents.*
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*
- c) **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

2) Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*
- b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*
- c) **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*

- Never to use the tool without the **RCD** provided with the tool;
- always to test the correct operation of the **RCD** before starting work;

3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*
- b) **Use personal protective equipment. Always wear eye protection.** *Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.*
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.*
- d) **Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*

e) **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*

f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** *Loose clothes, jewellery or long hair can be caught in moving parts.*

g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of dust collection can reduce dust-related hazards.*

h) **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** *A careless action can cause severe injury within a fraction of a second.*

4) Power tool use and care

a) **Do not force the power tool. Use the correct power tool for your application.** *The correct power tool will do the job better and safer at the rate for which it was designed.*

b) **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*

c) **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*

d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users.*

e) **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** *Many accidents are caused by poorly maintained power tools.*

f) **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*

g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*

h) **Keep handles and grasping surfaces dry, clean and free from oil and grease.** *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*

5) Service

a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*

Special safety warnings for electric sprayer

1. Make sure not used to spray flammable materials.
 2. Warning to be aware of any hazards presented by the materials being sprayed and must be consult the markings of the container or the information supplied by the manufacture of the materials to be sprayed.
 3. Not to spray any materials where the hazard is not known.
 4. Must to use appropriate person protection equipments. Such as eye protection, dust mask etc.
 5. Not to clean the electric sprayer with flammable solvents.
 6. The quick-release mechanism of the harness must be ensure that the machine can be released quickly from the operator in the event of emergency..
 7. Make sure there is filter cotton in the filter, and the filter cotton is not blocked before use.
 8. Make sure the leakage protection switch into a single-phase three-pole 220-240Vac outlet. The socket should be convenient to operate and the socket grounding line should be grounded reliably.
 9. Check if the filter screen of tank is blocked when full disinfectant up to the tank. It is suggested to full up the tank with funnel to avoid spillover. In case of water into filter cotton, take out the filter cotton and then reinstall it in the filter until it is dried.
 10. The power supply shall be cut off immediately in the following situation: The product is exposed to rain or flooded inside; The fan stops running suddenly; Obvious changes occur in the fan sound; The tank leaks liquid; The fan does not operate after switching on.
 11. When overturning the product, the power supply should be cut off to prevent the liquid from flowing out;
 12. The plug of leakage protector should be unplugged and the product switch should be turned off when power failure to prevent the product from starting automatically.
 13. The product cannot work under unattended condition.
 14. Do not plug the leakage protector by wet hand to avoid electric shock.
 15. Do not excessively bend, distort, modify or press the power cord. When the power cord or leakage protector plug is damaged or loose, please hand over to professional maintenance personnel to avoid danger.
 16. After spraying, a small amount of water should be added to rinse and turn on the power switch to spray out the water, so as to prevent the residual liquid from blocking the pipeline or corroding the nozzle. After the use, it should be placed in the packaging box in a power-off state and stored in a high place to avoid rain, irrigation, bumping, and children touch.
 17. Do not put the product into water or rinse directly with water.
 18. The nozzle and filter cotton should be cleaned in time to prevent the obstruction from causing larger fan resistance and affecting the spray particle size, so as not to increase the fan load and affect the product life. Filter cotton should be taken out for cleaning and placed in a ventilated place after cleaning. It may be installed in the filter after complete drying.
- Note: Filter cotton is a consumable material and will be damaged after cleaning. It should be replaced in time. A piece of filter cotton is attached to the packing box for use, and the user can contact the local dealer to buy it.
19. After the product has been placed for a long time, we should carefully check whether it is damaged or flooded and whether the parts and components are intact.
 20. If the product failure is confirmed, it should be timely submitted to the professionals for detection and maintenance. The users are not allowed to open or maintain the product without authorization.

Check the packaging items

Please check if the packaging box contains the following items. If any items are missing, please contact the distributor of the equipment.



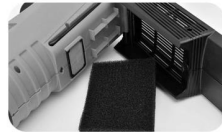
1. Aerosol Spray Sterilizer
2. Nozzle box, including 3 nozzles (1 mounted on machine), 2 spare seal rings, 1 silicone valve head (Figure 4)
3. 1 screwdriver
4. 1 spare filter cotton
5. 1 charging funnel
6. 1 equipment strap
7. 1 instruction book
8. 1 Filter screen

Operation

1. Select the appropriate nozzle according to the different use function, remove the nozzle with a slotted screwdriver, replace the selected nozzle and tighten it.



2. Unscrew the filter lock by hand (rotating 90°), replace a clean filter cotton, close the filter and lock the filter cotton (rotating 90°).



3. Open the tank cover, add liquid and screw it.



4. Power on leakage protection plug and check the RCD'S functions.



5. Grasping the handle and starts the tool to spray liquid.



6. Open the quick-release mechanism of the harness.

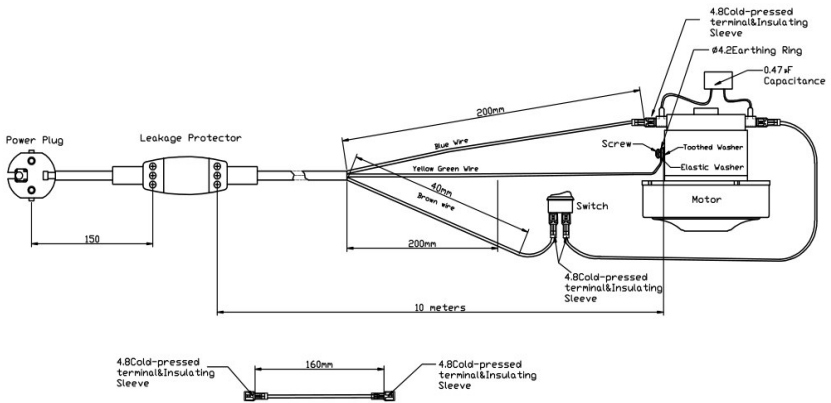


7. After the use, timely cut off the power switch and clean the tank for use.

Maintenance and service

1. The liquid in the tank must be emptied in winter so as not to freeze the knit and the pipeline and affect the normal use.
2. After spraying, a small amount of water should be added to rinse and turn on the power switch to spray out the water.
3. if the replacement of the **supply cord** is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.

wiring diagram



DECLARATION OF CONFORMITY EG-KONFORMITÄTSERKLÄRUNG

Business name of the manufacturer: Qingdao Chanshan Environmental Protection Technology Co., Ltd.
Firmenbezeichnung des Herstellers:

Full address of the manufacturer: Floor 6, Block C, Qingdao Oceantec Haike Entrepreneurship Center,
Aoshanwei Street, Jimo District, Qingdao City, Shandong Province
266000, P.R. China

Vollständige Adresse des Herstellers:

Name and address of the person (established in the Community) compiled the technical file:
Name und Adresse der Person (innerhalb der Gemeinschaft), die das technische Datenblatt erstellt hat
Richard, Rauecker

Marktplatz 4, 4170 Haslach, Austria

We declare that the machinery
Wir erklären hiermit, dass die Maschine

product name:

Produktbezeichnung: Electric sprayer

commercial name:

Handelsbezeichnung:

function: spraying disinfectant and non-flammable materials

Funktion:

model:

Modell: CS-4010

type: Motor powered

Typ:

serial number:

Seriennummer: 1020040001

fulfills all the relevant provisions of Directives
entspricht allen relevanten Anforderungen folgender Richtlinien

2006/42/EC

2014/30/EU

tested in accordance with below standards

wurde gemäß folgender Normen geprüft

EN 62841-1:2015

EN ISO 12100:2010

place and date of the declaration: Qingdao, 2020.04.10

Ausstellungsort und Datum der Erklärung

signature of the person:
Unterschrift des Ausstellers

Junki Li