

**VECTORFOG®**



# DC20+ ULV FOGGER

## User Manual

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# SAFETY PRECAUTIONS

- 1 The battery charger is for AC 110V — 240V power supply/60Hz. Unplug the charger after the battery is fully charged (green light).
- 2 Do not use any damaged power cord, plug, charger or socket.
- 3 Do not touch the plug, charger or switch with wet hands.
- 4 The charger is not waterproof. Do not use or store this in humid atmosphere or wet places.
- 5 Do not charge or store the machine over 95°F (35°C) or under 50°F (10°C). Do not expose and use the machine over 104°F (40°C).
- 6 Do not drop, heat, cut, or disassemble the machine.
- 7 Do not use the machine close to combustible or inflammable materials.
- 8 When using the machine inside vehicles, secure the position of the machine to prevent electric shocks and chemical teaks.
- 9 Please wear safety equipment (mask, anti-contamination clothing, gloves, etc.) while using noxious material.
- 10 Do not inhale the cold fog generated from the machine. The micro-droplets produced by this machine can float in the air for a long time and are quickly absorbed by the lungs. Depending on the chemical being used, this could result in serious injuries or death.
- 11 Only use the designated charger to charge the battery.
- 12 Do not fill in the solution tank while charging the battery.
- 13 Do not disassemble, modify, or alter the charger and the machine. Modifications or alterations will invalidate the warranty.
- 14 Do not lean the machine on its side with chemical inside the tank. This can cause chemical leaks resulting into faulty machine.
- 15 Do not fill the solution tank with powder, viscous liquid and flammable solution such as strong acid, strong alkaline, petrol, etc.
- 16 If the machine or the charger is faulty, please contact the supplier.

# PRODUCT OVERVIEW

DC20 PLUS is a cordless motor operated machine that generates cold fog, mist or aerosol formed of tiny droplets known as ultra low volume (ULV). This machine is generally used to apply disinfectants, insecticides, deodorizers, biocides and fungicides. Due to the droplet size produced by this machine (5-50 microns), it is ideal for removing germs, insects, fungi and odors as the cold fog will penetrate each and every hidden corner of the fogged area.

## SPECIAL FEATURES

### **Cordless Machine with Built-in Battery**

Can be operated anywhere without power cord after the battery has been charged.

### **Special Designed Nozzle**

Specially designed to adjust the droplet size between 5-50 microns while controlling the minimum flow rate to 0.25 LPM.

### **Solution Compatibility**

Is compatible with different types of solutions such as water, oil, air freshener and others.

### **Quiet Cordless ULV Fogger**

Generally more quiet than thermal foggers, which is useful in urban areas.

## MULTIPURPOSE USE

- Pest control for apartments, flat, houses and building.
- Regular fumigation to prevent Epidemic disease for schools, buses, subways, trains, planes and institutions.
- Removing indoor and outdoor odors for a clean environment.
- Disinfecting animal shelters to eradicate harmful microorganisms.

# OPERATION

## CHARGING

- All new machines only come with 30% battery life.
- The battery needs to be fully charged
- Unplug the charger when fully charged.
- When the battery is under 30%, the indicator on the handle turns red.

- 1 Connect the charger to the power cable.
- 2 Connect the charger to the charging port on the handle.
- 3 Plug-in the power cord to the main power supply
- 4 Battery takes 3 hours to recharge

**4.1 Red light:** Ongoing charge

**4.2 Green light:** Fully charged



1



2



3



4.1



4.2

## REMARK

- ✦ Use the designated charger only.
- ✦ Use the charger for recharging purposes only.
- ✦ Do not use the machine while recharging.

# OPERATION

## FILLING THE TANK

- Pre-mix the chemicals prior to filling the tank.
- Fill the tank with chemical mixture through the solution inlet.
- Close the cap of the tank securely to prevent chemical leakage.

**SOLUTION  
INLET**



## WARNING

HOCl (Hypochlorous Acid) is a powerful oxidizing agent and is not recommended for use with this machine. Using a home-made HOCl solution with this machine is not covered under our 12 month warranty.



## REMARK

- ➔ The tank capacity is only 2 Liters.
- ➔ Do not fill up the tank with solution while recharging the battery.
- ➔ Do not fill the solution tank with powder, viscous liquid and flammable solution such as strong acid, strong alkaline, petrol, etc.

# OPERATING THE UNIT



Turn on the machine by sliding the switch to the ON position.



Turn off the machine by sliding the switch to the OFF position.



Adjust the droplet size by turning the nozzle on the front of the machine. Clockwise reduces the droplet size. Anti-clockwise increases it.

# CLEANING INSTRUCTIONS

## WHEN USING WATER BASED LIQUIDS

### STEP A

When fogging is complete, pour any liquid left in the tank to a suitable container using a funnel.

### STEP B

Operate the fogger for 1 minute with the nozzle opened to the largest droplet size setting. This will get rid of any existing liquid remaining in the fogger's internal tubes.

### STEP C

Fill the fogger with some clean water and operate again for one minute.  
Remove any excess water from the tank.

## WHEN USING EMULSIONS

After fogging, begin with **STEP A** as listed above. Once done, fill the tank with appropriate solvent for the chemical that was used. Repeat **STEP B**, flushing any chemical residuals left inside. Then repeat **STEP C**. Before storing, allow the tank to dry.

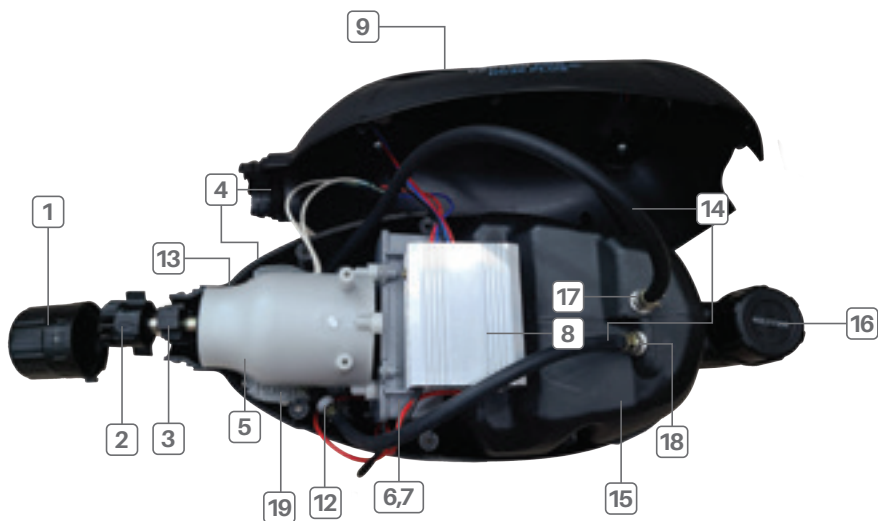


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### WARNING

PLEASE CLEAN THE FOGGER AFTER EACH USE!

# PRODUCT



1 Air-Cap



2 Cap-Nozzle



3 Nozzle-Assy



4 Body-Assy



5 Motor-Assy



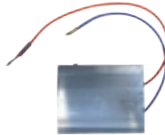
6 Battery-Assy



# PRODUCT



7 Battery



8 Invertor



9 Switch-Assy



12 Check Valve



13 Elbow



14 Hose



15 Tank-Assy



16 Tank-Cap



17 Air-Nipple



18 Water-Nipple



19 Filter



20 Battery Charger



21 Power Cable

# SPECIFICATIONS

Configuration		DC20 PLUS
Specifications	Dimensions	500 x 210 x 260mm (19.6" x 8.2" x 10.2")
	Tank Capacity	2L (0.5 gallon)
	Net Weight	3.11kg (6.8lb)
	Nozzle Diameter	1.5Ø
	Vent Diameter	15Ø
	Coverage	1,500 sq ft (140 m²)
	Spray Distance	2-6meters (Horizontal) (6.5-19.6 ft)
	Flow Rate	10-20 LPH
	Droplet Size	5-50 Microns
	Cable	Cordless
	Spray Angle	80 Degrees
Motor	Motor Wattage	350W
	RPM	20,000 RPM
Battery	Voltage	21.9V
	Capacity	5,500mAh
	Continuous fogging time (when fully charged)	45 minutes
Charger	Input Voltage	110-240V, 50-60Hz
	Output Voltage	25.2V
	Current (I)	2.5A
	Charging Time	2.5-3hrs

# PRODUCT WARRANTY



This product is warrantied for twelve months from the date of original purchase. Any defect that arises due to faulty materials or workmanship will either be replaced or repaired during this period by the seller or authorized distributor from whom you purchased the unit. Transportation charges or duties shall be borne by Purchaser.

*Purchaser must register the product for warranty coverage on the website ([VECTORFOG.COM/WARRANTY](http://VECTORFOG.COM/WARRANTY)). Proof of purchase is required to register.*

## The warranty is subject to the following provisions:

- The warranty does not cover normal wear, accidental damage, misuse or damage resulting from use for a purpose for which it is not designed; altered in any way; or subjected to any but the specified voltage if applicable.
- The product must be operated only by trained and skilled personnel and it must be correctly handled and operated in accordance with the instructions contained within this manual. The functional safety of the unit (e.g. by trial fogging with water) must be checked before putting the unit in operation. Any loose or leaking valves or lines should be repaired and fixed. If functional safety is not ensured, do not put the unit into operation.
- The warranty will be rendered invalidated if the product is re-sold, fitted with non-original spare parts or damaged by inexpert repair.
- Chemical solutions must be officially approved for the intended application and the material safety data sheet of the chemical solution should be checked prior to operation. HOCL (Hypochlorous Acid) is a powerful oxidizing agent and is not recommended for use with this machine. Using a home-made HOCL solution with this machine is not covered under our 12 month warranty. If not approved for acid resistance, the pH-value should be limited to a range between 4 - 10 at 200 PPM. Using solutions out of the pH-value 4 - 10 will make the warranty null and void. After use, fog with clean water for about 3 minutes to remove any chemicals still left in the system. Ensure all the water is used up and the machine is dried prior to storage. **Damage caused by corrosion will invalidate the warranty!**
- Any formation of aerosols or fogs from flammable substances or acids releasing oxygen and a mixture with air and/or dust always involves the risk of fire and/or explosion if there is a source of ignition. Observe the explosion limit of all solutions and avoid over dosage accordingly. Only use non-inflammable liquids (without a flash point) for treatments in rooms where a dust explosion hazard exists. Unit is not explosion proof.
- Operators owe a duty of care to prevent unreasonable risk of harm or injury. Operators should not fog towards hot surfaces or electric cables nor fog in rooms where temperatures exceed 35°C. Position the unit in a safe and upright position with the hand piece hooked or carry it with the strap over your shoulder. In case of stationary use, do not leave the unit unattended.
- If the machine stops fogging unintentionally, turn off the unit immediately. If the issue persists, contact the supplier, distributor or Vectorfog®. After a return due to malfunctioning of the unit, the supplier, distributor or Vectorfog® will inspect the unit to determine whether or not warranty service applies. Upon arrival at the facility, inspection will take 7 - 14 business days. Vectorfog® will then contact the Purchaser with an evaluation of the product warranty.
- Specifications are subject to change without notice. The manufacturer disclaims any liability for the incidental or consequential damages. The warranty is in addition to and does not diminish your statutory or legal rights. In the event of a problem with the product within the warranty period call the Customer Helpline: (US) +1 844 780 6711 or email [cs@vectorfog.com](mailto:cs@vectorfog.com).



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