



VS-300 ULV USER MANUAL -THIS MUST BE READ BEFORE USE

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**Overview****VS-300 Overview**

Can be used for disinfection, pest control, odour control and plant protection.

The VS-300 works by expelling a fine, almost invisible mist into the atmosphere which eventually settles on all surfaces including those impossible to reach by conventional methods. The machine is compact, lightweight and robust.

The ability to adjust the fogger output from a mist of just 6  $\mu\text{m}$  up to 35  $\mu\text{m}$ , and flow rate up to 49 litres per hour makes this machine suitable for the application of disinfectants, biocides, fungicides and pesticides.

Regular fogging with an approved disinfectant such as Virosol as will help prevent the cross-infection of viruses such as MRSA, Covid 19 Coronavirus (human and feline), Strangles, Ringworm and many more.

## Safety Precautions

- You must ensure the machine is connected to the correct power supply. Connecting the machine to the wrong voltage could cause the motor to overheat and cause a fire.
- Always use a 13A RCD Adaptor plug between the fogging machine and your 230v power supply.
- Only connect to 220 - 230v power supply.
- Do not connect to a 110v power supply.
- Never move the machine by pulling on the power cord.
- In case of any exposed wiring, damage to the machine or any of its components, turn off immediately at the wall socket and do not use. Take to an authorised centre for repair.
- Do not modify the machine – this will void the warranty and compromise the safety of the machine.
- Do not Inhale the fog/mist when spraying. The micro-droplets are quickly absorbed into the lungs. Depending on the chemical being used this could result in serious injury or death.
- Do not fog a flammable liquid. The motor produces heat and could be a source of ignition.
- You must wear protective equipment (face/breathing mask, gloves and protective clothing). Ensure you have studied the safety data sheet of the chemical you are using and protect yourself accordingly.
- Keep the machine away from children.
- For further Government guidelines see <http://coshh-tool.hse.gov.uk/assets/live/sr03.pdf>

*Prior to operating the unit, please read the owner's manual carefully, and most importantly, observe all safety rules. Observe the maintenance guidelines closely to ensure the long service life of your equipment. Your dealer will be glad to assist you with any questions.*

**EC declaration of conformity** - The EC declaration of conformity is available on request.

## **Packaging and Disposal**

Please keep the original packaging in order to protect the equipment against transport damage in case you ever need to ship it or transport it. If the packaging materials are no longer required then they must be disposed of properly in accordance with applicable local regulations. Cardboard packaging materials are raw materials which can be recycled or reused. At the end of the equipment's service life, please make sure that you dispose of it properly, in accordance with the official directives and regulations that apply in your area.

## Symbols

The following symbols are used in this manual and on the product:



Always handle this power tool with particular care



Keep open flames away from the power tool and the fuel can



Thoroughly read these operating instructions before undertaking any maintenance, installation and cleaning steps



Wear ear defenders and a face shield before starting the engine



Wear protective gloves when handling and working with the equipment



A breathing mask should be worn when using poisonous chemicals



Pesticides can be flammable.



Never smoke near the power tool or where the equipment is refuelled!

## 2. Workshop service, replacement parts and guarantee

### 2.1. Maintenance and Repair

Maintenance and repair of modern motorized devices, as well as their safety-relevant assemblies, require qualified, specialized training and a workshop equipped with special tools and test devices. Thus HSC recommends that you have a specialized HSC workshop carry out all work that is not described in these operating instructions. Your HSC specialist has the required training, experience, and equipment at his disposal to provide you with the most cost-effective solution and can help you in many ways with advice and service.

### 2.2. Replacement Parts

Dependable operation and the safety of your device also depend on the quality of the replacement parts that you use. Use only original HSC replacement parts. Only original parts come from the production of the device and thus guarantee the highest possible material quality, dimensional accuracy, function, and safety. Original replacement parts and accessory parts are available from your dealer. He also maintains the requisite replacement part lists to determine the required replacement part numbers, and he is constantly provided with information concerning detail improvements and innovations in the replacement part offering. Please note as well that guarantee performances from HSC are not possible if parts other than HSC original parts are used.

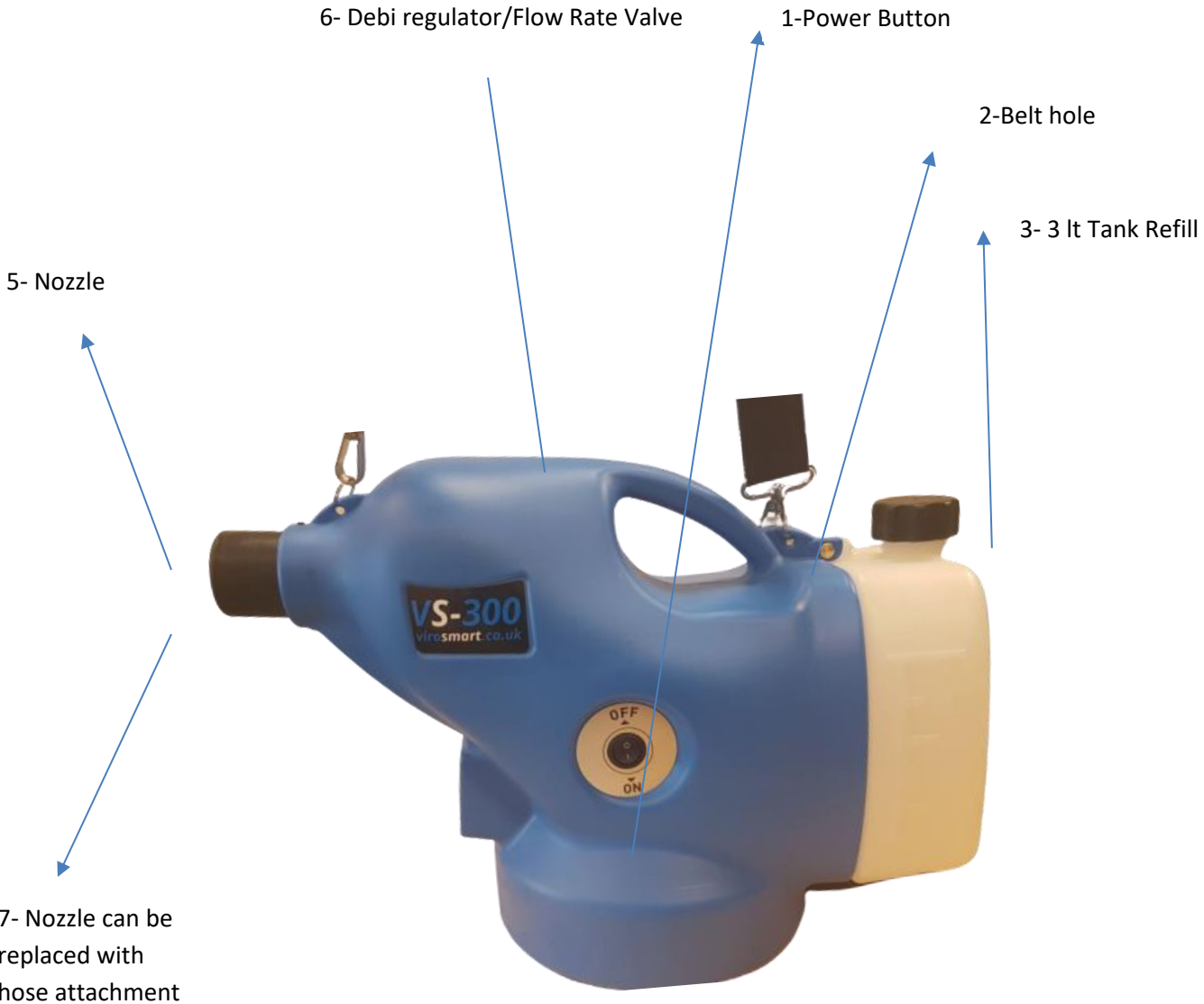
### 2.3. Guarantee 1 Year from date of purchase.

HSC guarantees problem-free quality and will assume the costs for defect remediation by replacing the defective parts in the case of material or manufacturing defects that occur within the guarantee period after the date of purchase. Please note that specific guarantee conditions apply in some countries. Ask your sales person if you have any questions. As vendor of the products he is responsible for the guarantee. We request your understanding that no guarantee can be assumed for damages due to the following:

- Not to be charged properly in time
- Non-compliance with the operating instructions.
- Neglecting required maintenance and repair work.
- Normal wear and tear.
- Obvious overload through persistently exceeding the upper performance limits.
- The use of force, improper handling, misuse, or accident.
- Damages that can be traced to implementation conditions from the rental business.

Cleaning, care, and adjustment work are not recognized as guarantee performances. All guarantee work must be carried out by a HSC dealer.

**3. Important Components**



**Attaching the hose (Optional)**

Before starting the machine, fit either the nozzle (5) or the hose (7). The yellow tubing needs to be securely fastened onto the hose fitting. See the picture below. If the hose is not required – remove nozzle from the end of the hose and attach in the same method.



## 4. Safety

### 4.1. Correct use / Application

The machine may only be used for the following areas of application:

- The VS-300 ULV is suitable for applying pesticides approved by the national regulatory authorities. Closely observe the instructions provided by the pesticide or disinfectant manufacturer.
- According to its type designation, this equipment is suitable for:

Agriculture, horticulture, orchards, green spaces, vineyards, nurseries, inside buildings (see note on droplet size page 8) the VS-300 may only be used for the jobs it has been designed for. Always observe all safety hints while using the machine.

### 4.2. General safety instructions

Read the operating instructions carefully before placing in service and keep them in a safe place. First time users should be instructed by the seller or an expert.

The operator is liable towards others within the operating area of the ulv fogger. Only operate the ulv fogger when in good physical condition. Fatigue and illness lead to carelessness and accidents.

Proceed in a careful and alert manner.

- Never use a machine while under the influence of alcohol or drugs.
- The air exit speed from the nozzle is high. Never point the nozzle towards persons or animals.



Always wear appropriate clothing and protective equipment whenever this power tool is used.

- Clothing should be suitable, i.e. tight without being obstructive. Do not wear a scarf, necktie, jewellery or any clothing which can get caught on shrubs or branches.
- Wear firm shoes with good traction, preferably safety shoes.



Wear protective gloves with non-slip grip.



Use personal ear protection (such as ear muffs, ear plugs or similar) and a face mask or safety goggles to protect against spray drift or airborne debris.



When using spray medium that can be hazardous to health, wear a breathing mask to prevent poisoning.

- Any clothing soaked with chemical or petrol should be changed immediately. Always observe accident prevention regulations issued by local trade organizations or workers compensation boards.

After fogging an additional period of 45 -60 minutes is required to allow the droplets to settle and reduce the risk of operators inhaling the chemical droplets. This time may be longer or shorter depending on the volume of fog and the particle size. You must assess carefully before re-entering without PPE.

- No other persons should be in the vicinity of the machine unless wearing appropriate PPE. Keep away from children and animals. Objects carried by the air stream can deflect and injure nearby persons.
- After fogging an additional period of 45 -60 minutes is required to allow the droplets to settle and reduce the risk of operators inhaling the chemical droplets. This time may be longer or shorter depending on the volume of fog and the particle size. You must assess carefully before re-entering without PPE.

**Be aware of your surroundings**

- Watch out for animals which may be within your work area
- Be aware that noise is harmful to the environment. Inquire about and respect possible local rest periods.
- Some smoke detection apparatus may be triggered by fogging – please take the necessary precautions.

**5. Maintenance and care**

- After each process, add distilled water and start to device to rinse the lines. To Avoid corrosion.

**6. Starting/Stopping the device**

1. Check the tank, If needed fill up the tank with the suitable disinfectant
2. Use the Debi Regulator (Flow Valve) to set the required micron size – remember to always return this to the “0” position after use.

**Safety Precautions**

- You must ensure the machine is set to “0” on the Flow Valve after every use. See below:



**\*IMPORTANT INFORMATION\***

**Flow valve should be returned to "0" after every use.**



**7. Operating Guidelines**

**1. Preparing Your Sanitisation Fluid**

Dilute Virosmart Virosol at 1:50 according to the table below;

Model	Instance	Virosol	Water
VS-500	Regular Fogging	100 ml	5000ml (5Litres)
VS-300	Regular Fogging	60ml	3000ml (3Litres)

If using an alternative to Virosol ensure you comply with the manufactures guidelines.

**2. Setting the Fluid Particle Size and Flow Rate**



For internal areas such as offices, domestic properties, and vehicles it is important to use a ‘dry fog’ so as not to dampen or wet any surfaces or objects. The settings on the dial range between 1 and 6, with each number corresponding to a micron size and flow rate. The lower the number, the smaller the particle size and the less the flow rate. A particle size of 20 microns or less is termed as a ‘dry fogging’. However, in areas that are more sensitive such as offices where there is electronic equipment it is recommended to use a particle size of 12 microns or less.

When fogging areas such as stables or other outdoor environments a larger particle size can be used, producing a wetter fog. If precipitation occurs when sanitizing, then the particle size is too large – adjust as necessary to ensure your disinfectant does not begin to drip or run-down surfaces.

Dial Setting	Flow Rate (ml / min)	Droplet Size (Microns)
1	12	6
2	40	12
3	75	20
4	95	25
5	115	30
6	140	35

3. Switch the fogger on as shown below.



After fogging an additional period of 45 -60 minutes is required to allow the droplets to settle and reduce the risk of operators inhaling the chemical droplets. This time may be longer or shorter depending on the volume of fog and the particle size. You must assess carefully before re-entering without PPE.

*Use biocides safely. Always read the label and product COSHH information before use*

## 8. Technical Specifications

Motor	1400 W – 220-230 V AC 50-60 Hz
Solution Tank Capacity	3 Litre
Air flow rate	80 m/min
Solution Droplet Size	6 - 35 micron
Empty Weight	4,2 KG
Dimensions (cm)	24x50x36 cm

