



## ANTI-VIRAL FOGGER MACHINE - FO-500



# FO-500 User Manual

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**THIS USER MANUAL MUST BE READ BEFORE USE**

## Overview

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

The FO-500 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 large 5 litre tank and powerful 1400w 240v electric motor allow the covering of large areas with ease.

The ability to adjust the fogger output from a mist of just 9  $\mu\text{m}$  up to 49  $\mu\text{m}$ , 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 the ***Fluid Science Antiviral Surface Disinfectant*** - will help prevent the cross-infection of viruses such as MRSA, Coronavirus (human and feline), Strangles, Ringworm and many more.

# Safety Precautions

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- You must ensure the machine is connected to the correct power supply. Connecting the machine to the wrong voltage may 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.

**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.

# Antiviral Solution Instructions

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We recommend the following precautions when using this product.



You **must** wear protective Rubber, Nitrile or similar gloves whilst applying this product. It should not come into contact with your skin and is intended for use on hard surfaces only.

(If contact with skin occurs, please wash off with soap and water immediately)



You **should** wear protective goggles/eyewear to prevent splashes of disinfectant entering the eye.

(If splashes do enter the eye, please flush out eyes **immediately** with fresh water)



To avoid any potential respiratory issues, you must wear a standard mask at all times when fogging.

(If this product is swallowed please seek medical attention **immediately**)

\*\*For full health and safety information please request our Safety Data Sheet, this will have also been supplied with our Delivery of the Disinfectant product.

# Workshop service, replacement parts and guarantee

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## 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 FS recommends that you have a specialized FS workshop carry out all work that is not described in these operating instructions. Your FS 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 FS 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 FS are not possible if parts other than FS original parts are used.

## 2.3 Guarantee 1 year from date of purchase

FS 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 FS.

# Components

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## Safety

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### Correct Use / Application

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

- The FO-500 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 9) the FO-500 may only be used for the jobs it has been designed for. Always observe all safety hints while using the machine.

## 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.

Always observe accident prevention regulations issued by local trade organizations or workers compensation boards.

- 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.
- For precautionary measures, we recommend placing wet floor signals on hard and more slippery surfaces. The small droplet size usually will not affect this, but it pays to be safe.

**After fogging an additional period of 30 - 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.**

## **Beware 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.

## **Maintenance and Care**

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After each process, add distilled or deionised water and start the device to rinse the lines, to avoid corrosion.

## **Starting / Stopping the device**

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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.

## **Operating Guidelines**

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### **1. Preparing your sanitisation Fluid**

After each process, add distilled or deionised water and start the device to rinse the lines, to avoid corrosion.

### **2. Preparing your sanitisation Fluid**

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.

- 3. Ensure Appropriate PPE is worn**
- 4. Fill the tank with ready to use FS Antiviral Disinfectant**
- 5. Ensure the lid to the tank is screwed back on firmly.**
- 6. Position the FO-500 in the right place (or handheld) and switch the Fogger on. The device will begin fogging in a few seconds.**
- 7. Now, set the dial to the required setting for your environment/application. For a dry fog (particularly if you do not want to make the surfaces damp) a setting of 2 or below is required, whilst a setting of 3 and above will produce a larger droplet size which is more effective for surface disinfection.**

## Technical Specifications

**Area Coverage:**

As a guide the solution used per M3 can be calculated at 2ml/m<sup>3</sup>, although this can vary 1ml/m<sup>3</sup> to 4ml/m<sup>3</sup> depending on your target area.

**Specification:**

|                  |                      |
|------------------|----------------------|
| Motor            | 1400w, 240v AC, 50hz |
| Tank Capacity    | 5 Litre              |
| Output Flow Rate | 0-49 l/h             |
| Droplet Size     | 9-49 micron          |
| Empty Weight     | 5.3 kg               |
| Dimensions       | 50 x 17 x 50 Cm      |

**Droplet Fall Rate per meter, according to Micron Size.**

|             |                    |
|-------------|--------------------|
| 100 Micron  | 5 Seconds          |
| 50 Micron   | 5 Minutes          |
| 20 Micron   | 4 Hours            |
| 1 Micron    | 8 Hours            |
| 0,25 Micron | Cannot be measured |

**Contact Us for more information**

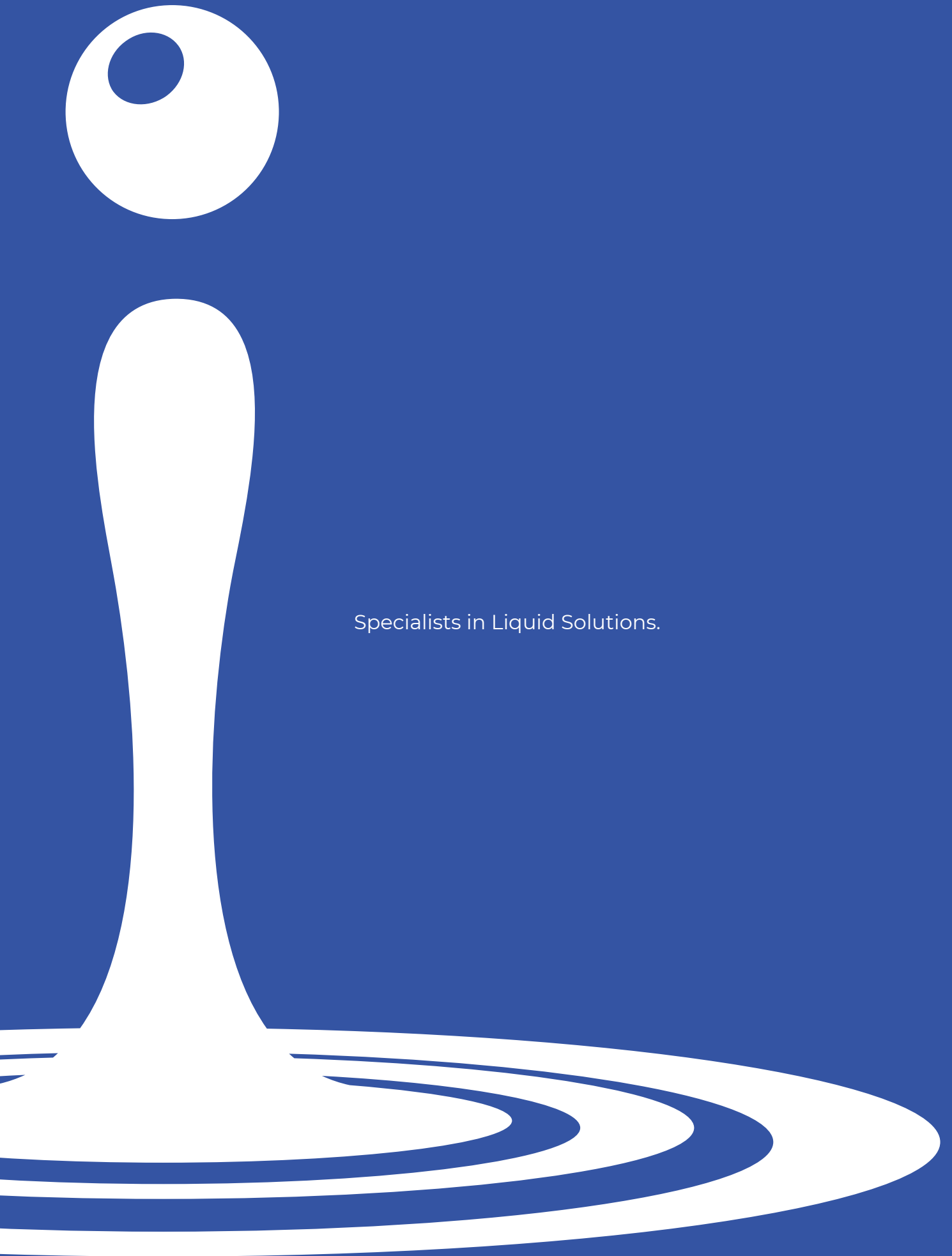
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