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ULV AND THERMAL FOGGER WARRANTY DETAILS AND OPERATIONAL GUIDELINES

The units are warrantied for factory originated product defects.

The units are warrantied for any damage found on receipt. Please inspect your product and test it to ensure there are no problems.

Any other types of breakage and failures will be considered part of repairs and maintenance.

Some chemicals are not advised – especially hydrogen peroxide and other corrosive chemicals.

Solvent-based products are also not recommended.

High viscosity products will strain the motor.

See the user manual guidelines at the end of this document.

Especially, before starting, make sure power switch is OFF. Make sure flow adjust knob is at 0.

Before shutdown (power off), make sure flow adjust knob is set at 0. If you do not do this, there is a risk of fluid backflow into the motor area.

Do not transport the unit with chemicals inside. Transport empty. During transport, please ensure the unit does not roll on its side or upside down with liquid inside as with the 2680 we had one case where this led to the motor getting wet.

The recommended covid-19 chemical is HOCl: hypochlorous acid.

Long extension cords can lead to a voltage drop, affecting the performance and motor life.

Using undersized extension cords will cause the cable to overheat. Voltage drop can be mitigated to an extent by using heavier gauge wires but that does not solve all problems. The main concern is when the voltage drops too far below 220 volts because as voltage decreases, more current flows to make up the difference and this causes wires to heat up and appliances to run hotter. A unit running hot is more likely to burn out. Such failures are out of product design parameters and so not warrantied.

800 watts is a significant load, so requires the correct extension cord. Use the shortest extension cord possible.

For warranty purposes, each unit has a unique serial number. The end-user must register their unit by emailing aqua@ecotao.co.za with the serial number, model number, company name, chemical to be used, brief description of use and environment. (Ideally, or if possible, at least 2 photos of the unit in use should be submitted.)

A “maintenance service” is currently NOT a part of the supply offered by Ecotao Enterprises cc. The maintenance is quite simple for the ULV foggers and a bit more complicated for the thermal foggers. Maintenance should, therefore, be in-house. We will replace motors if required, with a service fee and a motor fee. Ecotao will keep common spare parts and procure other spare parts as needed. Spares and parts are billed for. If the spare part is not available, we will bring it in with the next shipment. If the manufacturer discontinues a model, this will be out of our control. However, to date, supply has been consistent for the models offered.

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ULV FOGGER PRECAUTIONS

Do not tilt on the side or upside down when fluid is inside the unit. Do not transport in a vehicle with the chemical in the tank as the unit could roll over when driving.

After use and chemical spraying, spray and flush with clean water.

Do not wet the intake sponge or pressure chamber.

Do not spray people or animals.

Store empty and dry.

Do not switch on and off in quick succession.

Discharge residual pressure after use.

Before starting, make sure power switch is OFF. Make sure flow adjust knob is at 0.

Before shutdown, Make sure flow adjust knob is at 0.

The main things to do:

Do not overfill the tank.

Do not shake the unit.

Do not transport it with liquids inside in a vehicle between sites.

Before power on, close the valve on the hose. It will pump then only air.

Before power off, close the valve on the hose and wait for it to be blowing only air – then switch off.

Loosen the cap to release the air pressure.

FAQ

Can I change the supplied plug to the SA three pin plug?

Yes, you can replace the plug – it will not affect the warranty.

Is there any training offered?

The ULV electrical foggers are very easy to use, so do not require training. Only care for the machine is needed. The above precautions should be followed. It is an electrical unit, so the usual precautions around use of electrical appliance applies.

Thermal foggers are more technical and difficult to use. There are 2 x 30 minute operation videos to watch and the manual to read before the equipment is used.

<https://www.youtube.com/watch?v=LchkplZkki4&t=793s>

<https://www.youtube.com/watch?v=3wUznqcJCxs&t=710s>

Can you offer a certificate for use of the equipment?

Ecotao is not a certification body. The equipment manufacturer carries the necessary equipment manufacturing and quality standards to export to the USA. We do not have control over the chemicals used in the equipment. Some chemicals, such as hydrogen peroxide will destroy the machine and others may have long-term human health implications. For this reason we promote the use of hypochlorous acid with the foggers. The HOCL concentrate is registered with the South African Health Products Regulatory Authority (SAHPRA). The anolyte product is registered with the National Regulator for Compulsory Specifications (NRCS). The pest control industry is managed by the South African Pest Control Association (sapca.org.za) and the Pest Control Industries Training Academy (PCITA).

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What is SAHPRA?

SAHPRA is tasked with regulating (monitoring, evaluating, investigating, inspecting and registering) all health products. This includes clinical trials, complementary medicines, medical devices and in vitro diagnostics (IVDs). Furthermore, SAHPRA has the added responsibility of overseeing radiation control in South Africa. SAHPRA's mandate is outlined in the Medicines and Related Substances Act (Act No 101 of 1965 as amended) as well as the Hazardous Substances Act (Act No 15 of 1973).

SAHPRA has three pillars to ensure that medicines, medical devices and IVDs meet the requisite standards to protect the health and well-being of South Africans:

- Safety
- Efficacy
- Quality

It is these three pillars that define the ethos of SAHPRA.

The South African Health Products Authority (SAHPRA) is the Regulatory Authority of South Africa, which is responsible for the regulation of health products intended for human and animal use; the licensing of manufacturers, wholesalers and distributors of medicines, medical devices, radiation emitting devices and radioactive nucleides; and the conduct of clinical trials.

What is NRCS?

The NRCS is an entity of the department of Trade and Industry established to administer compulsory specifications and other technical regulations with the view to protect human health, safety, the environment and ensure fair trade in accordance with government policies and guidelines.

NRCS Vision

A credible and respected regulator for the protection of the public, the economy and the environment.

NRCS Mission

To develop compulsory specifications and technical regulations, and maximise compliance of regulated products and services.

ELECTRICAL SAFETY

1. Avoid water at all times when working with electricity. Never touch or try repairing any electrical equipment or circuits with wet hands. It increases the conductivity of electric current. Do not get the motor area wet. Do not get the motor wet.
2. Never use equipment with frayed cords, damaged insulation or broken plugs.
3. Wear proper footwear when using the fogger.
4. Wear non-conducting or rubber gloves as an added precaution when using the equipment. It is necessary to handle equipment that is plugged in, be sure hands are dry and, when possible, wear nonconductive gloves, protective clothes and shoes with insulated soles.



5. Ensure no cables are damaged.
6. Do not shake the fogger while using it. Do not turn it on its side or turn it upside down.
7. Unplug the unit before filling and after use. Do not try and empty the unit while it is plugged in.
8. Equipment producing a “tingle” should be disconnected and reported promptly for repair.
9. Never handle electrical equipment when hands, feet, or body are wet or perspiring, or when standing on a wet floor.

GENERAL GUIDELINES FOR YOUR ULV FOGGER



1 Warnings

- Do not turn the machine upside-down.
- After use, empty the solution tank and spray water 1-2 minutes to clear the solution pipeline. This is especially important for corrosive chemicals.
- When cleaning the machine, don't splash water onto the motor and power switch.
- Do not operate if the power cord or power switch insulation is damaged.
- Strongly corrosive chemicals may damage the machine.
- Do not allow corrosive gas to enter the machine through the air intake, otherwise motor damage can occur.
- Be careful where you point the nozzle while you adjust the solution output.

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2 About your fogger

2.1 Overview

Your Ultra-Low Volume (ULV) fogger is equipped with a motor that produces high speed airflow, driving solution particles through a specially designed nozzle. The nozzle emits extremely fine fog droplets, less than 20 microns in diameter, small enough to linger in the air for a long time.

AC powered. More powerful than battery-powered foggers, and quieter than gasoline-powered thermal foggers.

Ergonomic design. Handheld nozzle, flex-hose, and carrying strap designed for comfort and efficiency.

Flow control. Use the flow control knob to adjust flow rate. (Droplets will also be slightly smaller at lower flow rates.)

2.2 Tech specs example

Model	2680	Physical	
Capacity	1.6 gal	Dimensions	17.7 x 8.7 x 11.8 in
Motor	800 W	Dimensions, shipping	18 x 14 x 9 in
Flex-Hose	20 in	Weight	7.1 lb
		Weight, shipping	9.5 lb
Output			
Droplet Size	5-50 micron		
Solution flow rate	0.0-7.0 gal/hr		
Spray distance	15 ft		

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3 Operation

3.1 Prep

1. Wear protective clothing/gloves/masks in accordance with safety regulations.
2. Check power cord insulation.
3. Make sure power switch is OFF.
4. Make sure flow adjust knob is at 0.
5. Add chemical into the tank, diluting if necessary, following the chemical manufacturer's documentation.
6. Tighten the lid to prevent pressure leaks.

3.2 To begin spraying

1. Plug into wall outlet.
2. Turn power switch to ON.
3. Wait for the motor to spin up.
4. To start spraying, turn flow adjust knob to 1 or more. Always keep the fogger upright.

3.3 To stop spraying

1. Turn flow adjust knob to 0.
2. Wait until the spray stops, then turn power switch to OFF. If you want to start machine again, wait until the motor spools down. Rapid power cycling can shorten motor life.
3. Unplug from wall outlet.
4. Follow the steps in 4.1 Cleaning to clean the tank and solution pipeline. This is especially important for corrosive chemicals.

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4 Care and maintenance

4.1 Cleaning

1. Empty any chemical from the tank.
2. Clean the tank: add water, tighten the lid and shake.
3. Clean the solution pipeline: start the machine and spray 1-2 minutes.
4. Turn off the unit and empty the rinse water from the tank.

4.2 Long-term Storage

1. Follow the steps in 4.1 Cleaning to clean the machine.
2. After emptying the tank of rinse water, dry the tank and pipeline by running the machine for 1-2 minutes with an empty tank.
3. Store the unit in a dry, well-ventilated location.
4. Leave the solution lid open.

4.3 Wear and tear

Moving parts should be lubricated every 3-6 months to prevent corrosion and oxidation. If any hoses, gaskets, and O-rings become cracked, brittle, or stiff, replace immediately.

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5 Troubleshooting

5.1 Motor doesn't start

1. Make sure power switch is ON.

5.2 Motor starts, but no spray

1. Make sure the flow-rate adjust knob is not at 0.
 2. Check the solution level in the tank.
 3. Check the tank lid is tight.
 4. Check the rubber gasket under the tank lid. If the gasket is missing or loose, there may be a pressure leak, and the unit will not spray.
 5. Look for the solution intake tube at the bottom of the tank.
 6. The filter at the end of the intake tube may be clogged. Rinse out or replace the filter.
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7. Fill the solution tank to 2/3 full with water and try

THERMAL FOGGER- SPECIFIC REQUIREMENTS

Ensure the fuel is clean and dry. Some starting problems can be remedied by replacing the fuel.

Ensure all parts removed are replaced back and in the same orientation.

Please read the manual fully and watch the Youtube video on operation and maintenance before use.

Thermal foggers are a fire hazard, so in flammable areas the necessary precautions are needed. Our

advice is "Do Not Use the thermal fogger where there are flammable products." The unit can

sometimes blow a flame out the front of the unit, so maintain at least 3 meters from any object.

Follow the correct start-up and shut-down procedures as in the manual and video.

<https://www.youtube.com/watch?v=LchkplZkki4&t=793s>

<https://www.youtube.com/watch?v=3wUznqcJCxs&t=710s>

Learn the basic care and maintenance as in the manual and video.

After spraying, use water to clean the solution tank and pipeline. This is especially important for corrosive chemicals.

Strongly corrosive chemicals (such as peroxyacetic acid) may damage the unit. Limit to occasional

Use or rather choose a different chemical.

Do not use fogger near flammable surroundings. Never run the unit in the presence of an open flame.

Do not leave a running fogger unattended.

Wear ear protection.

Some components can get hot while spraying.

Let the unit cool down before adding more solution or fuel. Do not transport or pack the unit while it is hot.

Warnings for indoor operation

- In closed spaces, operator should wear a breathing mask.
- Some aerosol carriers at high concentrations become flammable. Do not exceed these limits per 1000 m³.

Special carriers

Nebal	3.0L
Glyzerine	2.5L
Ekomist	2.0L
Ethylengkole	2.0L
UK2-spezial	2.0L
VK1	1.5L
Nevolin/nevocol	1.5L

Fuels and white oils

Vegetable Oil	2.5L
Diesel/Heating Oil	2.0L
Kerosene	2.0L
Petropal	2.0L
Shell Risella	1.5L

Turn the solution tap to the OFF position.



off



clean



on