

Fogit Greenhouse Sprayer

By Glenwood Produce LLC



**Single Head
Model**



**Dual Head
Model**

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The **Fogit Greenhouse Sprayer** applies chemicals at a low volume. This means that the same amount of active chemical is applied to a given area, but the chemical is diluted into reduced amounts of water. Because low-volume is very efficient, many users have found that lower volumes of chemical can be used with the same results.

The air-operated **Fogit Greenhouse Sprayer** will require a minimum of 3 liters of water and the chemical to treat 5,000 square feet. If less than 5,000 square feet is treated, a minimum of 2 liters of water is used. According to high-volume spraying methods, approximately 20 gallons of water or diluent plus the chemical is needed to treat 5,000 square feet. The **Fogit Greenhouse Sprayer** will do a greenhouse 75 feet in length. If greater distance is needed, it will require circulating fans in the greenhouse or a dual head model.

Low-volume application is only possible when extremely fine particles are produced. The micronized chemicals stay suspended for up to 6 hours and are distributed by horizontal airflow fans and natural air currents.

It takes approximately 4 CFM (cubic feet per minute) air at 25 PSI to run a single head and 9 CFM air at 25 PSI for a dual head, at the top of the gauge. Incoming air pressure needs to be more than 25 PSI to compensate for air restriction from the regulators.

Stainless steel heads for use with oxidizers and large 7 liter tanks are now standard on all models.

The **Fogit Greenhouse Sprayer** sprays your greenhouse while you sleep or do other work.

Spraying Procedure



1. Vacate the area, secure entry ways, and pose hazard signs.
2. Prepare the chemical solution. See the dilution rate charts. Be sure that the solution is free of clumps of chemicals that may clog the tip.
3. Put a little water in the tank, plug in the air hose and observe sprayer to ensure that the tip is not clogged. If clogged, see page 5.
4. Pour the solution in the top of the tank and leave the area immediately, as spraying will start right away.

5. Do not aim the nozzle directly at the crop. It should be spraying above the crop.

6. Do not re-enter treated area for a minimum of 6 hours after completed spraying. If it is necessary to enter treated area during application or before 6 hours has expired, only do so in a full EPA-approved spray suit, boots, gloves, hood, and respirator. Follow all EPA guidelines for re-entry.

7. Clean the **Fogit Greenhouse Sprayer** with clean water after each use. Wear chemical-resistant gloves while cleaning the **Fogit Greenhouse Sprayer**.

Precautions/Pre-Operation Checklist

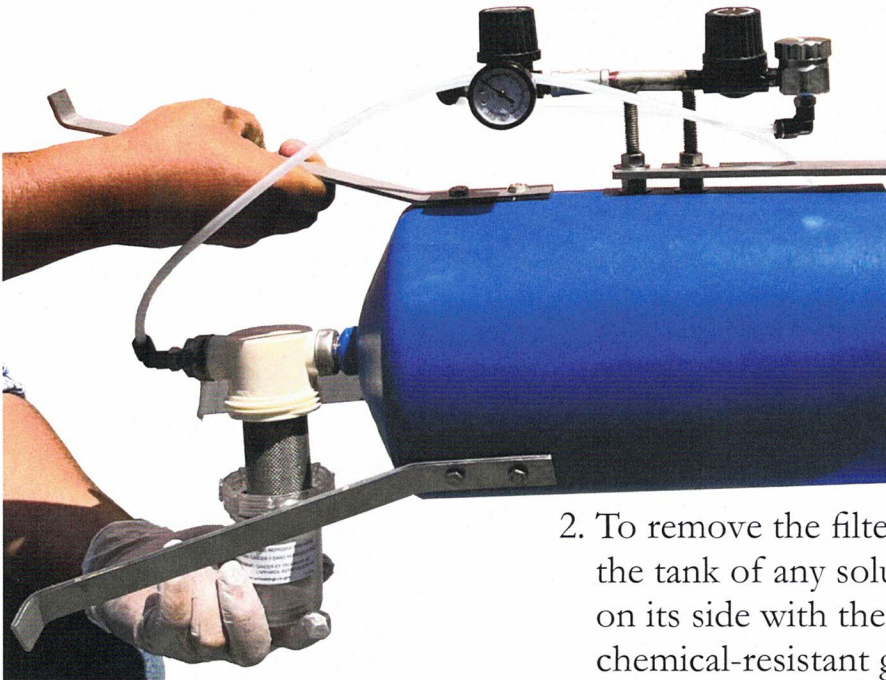
- For the most effective performance, the treatment area must be tight. Take time to repair any broken glass, gaps, or openings in vents and door frames.
- The entire treatment area should be vacant. No humans or pets should be present.
- Secure treatment area and post hazard signs before spraying.
- It's recommended that the application take place at the end of the day.
- Avoid spraying when the temperature is over 85°F in the treatment area or when humidity exceeds 85%.
- The discharge volume rate of the clean water is approximately 40 ml/minute for a single head or 80 ml/minute for a dual head. When testing the unit, pull the suction hose out of solution tank and place it in a graduated cylinder. Fill it with 80 ml of clean water. The cylinder should be empty after a two-minute test run. Be sure to check the discharge volume rate to assure the best results.
- Follow all EPA guidelines regarding the applications of chemicals.
- To set the *Fogit* head, turn the cap on completely, then back it off until the red line on the cap and the red line on the head line up.
- Drain all the water out of the air compressor tank and hose. The *Fogit Sprayer* will not work correctly with moisture in the line.
- Observe the operating pressure. The top gauge should read 20–25 PSI. By adjusting the regulator, you will need more PSI coming in or a larger air line hose. If you cannot get 25 PSI by adjusting the regulator, you will need more PSI coming in or a larger air line.
- The bottom gauge should read 0 PSI and should only be opened enough to make the solution bubble to keep the chemical suspended in water.
- NOTE: Check the O-ring located inside the nozzle cap for water and damage. Replace if necessary.
- The air compressor needs to be outside the greenhouse and not in the fog.

Troubleshooting

<i>Chemical tank does not empty.</i>	Clean sprayer tip. (See page 5.)
<i>Fogit Sprayer sprays, but loses suction and the spray comes out in bursts.</i>	There is excessive moisture in air hose or compressor. Drain all water out of air compressor tank and hose. Do not use a spring coil hose, as it will increase moisture problem.

Cleaning and Maintenance

The key to successful results with the **Fogit Greenhouse Sprayer** is keeping the machine clean. There are only a few key steps involved, so it will be very easy. *Be sure to clean the machine after every use.*



1. Rinse the tank with clean water. Then run a little clean water through the **Fogit Greenhouse Sprayer**.

2. To remove the filter bowl, first empty the the tank of any solution. Then lay the tank on its side with the filter bowl down. Use chemical-resistant gloves and remove the filter bowl, being careful not to get the filter dirt onto the filter housing. (See image above.) Be careful to not lose the O-ring in the filter housing.



3. Remove the nozzle from the **Fogit Greenhouse Sprayer** by unscrewing the securing nut. Remove the nozzle cap and wipe off any chemical residue. Always handle the nozzle and cap with care, especially the nozzle tip. Inspect the nozzle cap and O-ring for damage or wear.
- A) Note: This procedure is necessary after every application of wettable powder solutions. Be sure to remove the nozzle tip and clean the nozzle.
4. If nozzle clogs, remove the suction hose from back of nozzle. With a chemical-resistant glove hand, cover the nozzle cap. This reverses the flow of air and blows the nozzle clean of any debris. Replace the suction hose, making sure to push it in. (See image to the left.)

WARNING

Please read and understand the following precautions before operating your *Fogit Greenhouse Sprayer*.

Failure to follow these instructions could result in serious injury or death.

The *Fogit Greenhouse Sprayer* is a low-volume application machine that applies **Hazardous Chemicals** in concentrated solutions. **Care** and **Logic** must be adhered to. The solution particle size is very small (0.05 to 10 microns). **Beware of Inhalation.**

Follow EPA Guidelines for handling and application of chemicals.

Do Not Use This Machine in an Enclosure Where Vapors Can Enter Any Type of Vents. Care should be taken to ensure that vapors can not reach buildings or homes in close proximity to the enclosure being treated.

Enclosure Area to Be Treated Is Securely Closed with no vents open.

Ensure That No Humans or Pets Are in the Area to Be Treated. Death from chemicals could occur.

After the machine has been turned on, chemical application begins. Exit the area immediately. Secure or lock the enclosure. Post “**Do Not Enter**” hazard signs. **The Deadly Chemical Vapor Will Not Be Visible!** It is your responsibility to ensure that no one can enter the enclosure for at least 6 hours after the machine has stopped applying chemicals.

Before Re-entry, Air Must Be Changed With Venting. Follow all EPA guidelines for re-entry periods.

After Use, Double Rinse the Chemical Tank and dispose of the rinse water according to EPA guidelines. Clean the nozzle and suction line thoroughly. Store the unit in a safe location away from children and unauthorized personnel.

Mix Only the Amount of Chemical Which Will Be Used to Treat the Area. Never Keep, Store, or Hold Over Unused Chemical Solutions.



Do not store the sprayer in temperatures above 95°F, such as in a closed, unvented greenhouse. The plastic containers may warp.



Application Rate

If you spray 25 gallons per 10,000 square feet, you will need

Chemical Labeled Rate Per 100 Gallons		Low Rate Multiplier 0.20		Chemical Required for 10,000 Sq. Ft.
16 oz.	×	0.20	=	3.2 oz.
12 oz.	×	0.20	=	2.4 oz.

*The minimum amount of water for 5,000 square feet is 3 liters.
For a larger area, add more water.*

The following chart carries out the multiplication for you and reduces the chemical by 5% to compensate for run-off.

Chemical Labeled Rate Per 100 Gallons		Rate for 10,000 Square Feet
4 oz. × 0.20	=	0.8 oz.
6 oz. × 0.20	=	1.2 oz.
8 oz. × 0.20	=	1.6 oz.
10 oz. × 0.20	=	2.0 oz.
12 oz. × 0.20	=	2.4 oz.
14 oz. × 0.20	=	2.8 oz.
16 oz. × 0.20	=	3.2 oz.
18 oz. × 0.20	=	3.6 oz.
20 oz. × 0.20	=	4.0 oz.

Note: 1 Liter = 33.6 ounces.

We do not recommend concentrations stronger than a ratio of 150 to 1 for Wettable Powders and Flowables, and a ratio of 10 to 1 for Emulsifiable Concentrates.

For chemicals that recommend how many ounces should be applied per acre:

*Chemical rate per acre ÷ 43,560 sq. ft. × sq. ft. of greenhouse – 5%
to compensate for run-off*

15 amp 110 volt timer



110 volt air compressor with timer

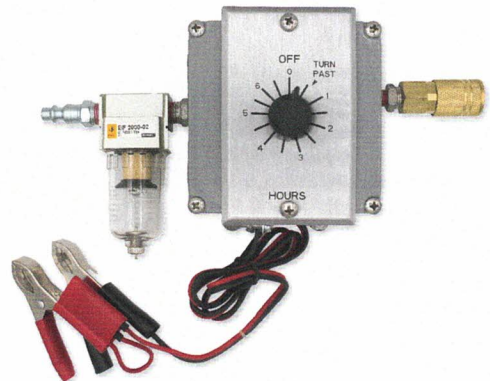
(For single head unit only)



110 volt air valve with timer



12 volt air operated timer



Limited Warranty

Fogit Greenhouse Sprayer warrants, to the extent of the purchase price, that the **Fogit Greenhouse Sprayer** will be free from defects in materials and workmanship to the original purchaser for a period of six months. The nozzle O-ring, chemical line, air line, pressure gauges, and parts subject to wear and tear are not covered under this warranty. Defects or damages due to the misuse, non-observance of safety standards, or non-observance of EPA pesticide guidelines are not covered under this warranty. Please read and follow the instructions and heed warnings stated in the operating manual and on the **Fogit Greenhouse Sprayer**.

In no event shall Glenwood Produce be liable for loss of produce, profit, any other special incidental or consequential damages included, but not limited to plant damage, property or persons.

This warranty begins on the date of original purchase. If warranty service is required, the equipment must be sent pre-paid to:

Glenwood Produce LLC
927 Glenwood Drive, Ephrata, PA 17522

Glenwood Produce makes no warranty, express or implied, in regards to the efficacy of any chemical which may be applied using the **Fogit Greenhouse Sprayer**.