

DRAMM



Supplemental Manual for TracFOG



Shipped to:

Serial #

Packed By: _____

date _____

Thank you for your purchase of this TracFOG.

The Dramm Corporation is the North American representative of pulsFOG, Dr. Stahl & Sohn GmbH of Überlingen Germany. We appreciate your purchase.

As the representative of pulsFOG, Dramm will supply equipment, parts, service and technical advice to customers in North America. Please feel free to contact us for any of these needs.

This manual supplement is designed to help with mixing and care for your TracFOG. The included TracFOG manual handles basic operation of your unit. In addition to these manuals, advice and operational videos are available on our website at www.dramm.com.

The included manual is specific to your TracFOG and contains valuable operational information as well as basic maintenance and repair information.

REVIEW ALL MATERIALS before operating your TracFOG.

Please direct any questions or service requests you might have to the contacts below.

Dramm Corporation
Main Office
PO Box 1960
2000 North 18th Street
Manitowoc, WI 54221

Dramm Corporation
Canadian Office
RR#4 906 Hwy 20 W
Fenwick, ONTARIO
CANADA, L0S 1C0

920/684.0227
information@dramm.com
www.dramm.com

Limited Warranty

This is a limited warranty as defined in in the consumer product warranty and federal trade com- mission improvement act. This warranty gives you specific legal rights which may vary from state to state.

DRAMM CORPORATION warrants all TracFOG units to be free from defect in materials and workmanship to the original purchaser for a period of one (1) year, on labor and parts that are not subject to unusual wear. This warranty does not cover units that have been abused or used in a manner inconsistent with the owners manual instructions. Use of other solutions negates any warranty.

DRAMM CORPORATION gives no warranty, expressed or implied, in regard to efficacy of any pesticide.

DRAMM CORPORATION warrants that VK-I, VK-II and NutriFOG fogging solution is plant compatible when used as directed. These directions reflect the opinion of experts and are believed to be reliable. Special emphases should be paid to dilution rates, temperatures and application rates of pesticides as listed on their labels. It further warrants that VK-I, VK-II and NutriFOG are inert diluents for pesticides to be used only in PulsFOG thermal fogging units.

Under no circumstances will the manufacturer(s) or DRAMM CORPORATION be liable for damages due to incorrect stocking, faulty operation or application, non-observance of safety standards or non- observance of chemical label directions. The manufacturer(s) or DRAMM CORPORATION under no circumstance will be responsible for damage(s) done to any property or persons.

Under no circumstance will the manufacturer(s) or DRAMM CORPORATION be responsible for crops. It is understood that the limit of seller liability for breach of any warranty shall be the invoice price of goods.

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

**Dramm Corporation
2000 North 18th Street
Manitowoc, WI 54220-1960 USA**

920/684-0227

Mixing Instructions:

The TracFOG requires the use of a carrier solution for best application. The carrier solution helps to produce a more even sized droplet, preventing very large droplets from forming.

While some chemicals may include fogging adjuvants, most do not. Check with your chemical manufacturer regarding this.

Dramm sells three different carrier solutions for the pulsFOG: VK-I, VK-II and NutriFOG.

VK-I	Use with EC chemicals only
VK-II	Use with all formulations of chemical
NutriFOG	Use with all formulations of chemical

VK-I requires no water for mixing. Mix the correct quantity (see accompanying chart) of EC chemical directly into 1 liter of VK-I to treat 10,000 square feet.

NOTE: Do not apply VK-I over wet crops. Leaves should be dry during the application.

VK-II is mixed with water. Mix the correct quantity (see accompanying chart) of chemical with 0.5L of VK-II and 1.5 L of water to treat 10,000 square feet.

NOTE: VK-II can damage certain crops, especially when in bloom. Take care when using, especially later in the season.

NutriFOG is mixed with water. Mix the correct quantity (see accompanying chart) of chemical with 0.25 L of NutriFOG and 1.75 L of water to treat 10,000 square feet.

NOTE: Do not apply more than 1.5 L of NutriFOG to the same 10,000 square foot area in ONE MONTH.

While these carrier solutions have been used with most greenhouse chemicals without incident, it is always advisable to perform a jar test with the proper ratios of chemical, carrier, and water to ensure compatibility with any chemical you are not certain of.

This pulsFOG includes a laminated chart showing the correct ratios of solution and water as well as chemical. To calculate this on your own, follow these instructions:

Calculate the amount of chemical required for 10,000 square feet.

Find the 100 gallon chemical label rate for the product you wish to apply. Multiply this by 0.40. This is the amount of chemical to use in 10,000 square feet.

Example:

100 gallon rate of CHEMICAL Z = 10 oz
 $10 \text{ oz} \times 0.40 = 4 \text{ oz}$ of CHEMICAL Z for 10,000 square feet.

Mix with the appropriate amount of carrier and water for 10,000 square feet.

If you wish to treat a larger or smaller area adjust by the percentage increase or decrease appropriate.

Example:

Treat a greenhouse of 15,000 square feet with CHEMICAL Z.
15,000 square feet is 1.5 times larger than our standard of 10,000 sq feet.
 $4 \text{ oz CHEMICAL Z} \times 1.5 = 6 \text{ oz CHEMICAL Z}$ for 15,000 square feet.

Mix with the appropriate amount of carrier and water for 15,000 square feet. Adjust the carrier and water based on the same ratio above.

NOTE: If the chemical you are using provides an area rate on the label in addition to the 100 gallon rate, **USE THIS INSTEAD OF CALCULATING** as shown above.

Example:

The label states "Use 10 oz per acre of CHEMICAL Z."
One acre is 43,560 square feet.
Divide $10 \text{ oz} / 43,560 \text{ sq ft}$ (to determine how much per sq ft.) = 0.00023 oz/sq ft.
Multiply by the number of sq ft to be covered. $0.00023 \times 15,000 \text{ sq ft} = 3.4 \text{ oz}$

Mix into the appropriate amount of carrier and water for 15,000 square feet. Adjust the carrier and water based on the previous example.

NOTE ABOUT MIXING THICK CHEMICAL SOLUTIONS:

Depending on the type or volume of chemical product you are using, the solution may be too thick to apply without clogging. If the product does not seem dilute enough to apply correctly, it is advisable to add carrier and water in the correct ratio until the product is dissolved well enough to be applied as a fog.

Always adjust the fogging time to ensure that the appropriate amount of chemical active ingredient is applied to the area you are treating.

Dramm offers an online forum at www.dramm.com where you can ask questions of Dramm personnel as well as search previous questions.

Many chemical solution questions are answered on this forum.

MIXING PROCEDURES:

- Ensure that the Drain Valve inside of the cabinet is CLOSED.
- Fill the tank to AT LEAST 80% of the water volume you intend to fog.
- Start PTO Agitation to ensure proper mixing.
- Mix the chemical into a slurry in a separate container.
- After several minutes of agitating the water in the tank, add the slurry to the already agitating tank.

Failure to follow these instructions may cause early wear and damage to the pump.



Dramm offers a video describing this procedure on our website.

A complete video detailing the operation and setup of the TracFOG is available at www.dramm.com

Caution: The TracFOG uses CERAMIC PISTIONS to reduce piston wear due to abrasive chemicals.

Try to keep the pump from running dry. Running the pump without solution to lubricate the pistons and seals will cause the pistons to heat. If this does occur, DO NOT REWET until cool.

A common occurrence of this are if the filter valve is left closed, the tank is filled, the PTO started. Operator notices that the unit is not fogging, checks on the unit noticing the valve closed and opens the valve. The pistons will be hot, getting them wet will subject them to thermal shock, cracking them.

PTO INSTRUCTIONS:

Connecting your TracFOG to your tractor properly is **CRITICAL** to the operation of this unit.

- Mount TracFOG to the 3 point hitch. Balance the unit from side-to-side to ensure straightest connection of the PTO shaft.
- Raise TracFOG to desired fogging height. Level the unit at this height.
- ENSURE cardan shaft is as level as possible.
- Cut shaft to length if necessary.
- Engage PTO from idle slowly.
- Increase PTO speed gradually.
- DO NOT ADJUST HEIGHT with PTO ENGAGED.

OPERATION:

Once the TracFOG is connected to your tractor and the unit is ready to operate, it is **EXTREMELY** important that you do not run the PTO too high.

The best measure of this is the **Air Pressure** as reflected on the gauge on the instrument panel.

The Air Pressure should be between 0.4 and 0.6 Bar.

DO NOT EXCEED 0.6 BAR!

Doing so will warp the nozzles and the connections in the air line.

These items **WILL NOT** be covered under warranty.



Complete instructions for mounting and operating the TracFOG are in the full manual. READ THE ENTIRE MANUAL BEFORE USE.

