



Operations Guide to

APIVERA

Portable Hive Fogger

The ApiVera Portable Hive Fogger is a flexible tool for hive management, designed to be powered from multiple sources including a power bank, wall outlet, or car outlet.

Lightweight and easy to carry, it delivers reliable in-hive coverage with ApiVera chemistries to promote colony health and beekeeper safety. This guide outlines proper operation, handling, and maintenance so you can achieve consistent results—whether you're a hobbyist, sideliner, or commercial beekeeper.

www.terravera.com/products/apivera-portable-hive-fogger



TABLE OF CONTENTS

SYSTEM OVERVIEW	Page 2
SAFETY PRECAUTIONS	Page 3
OPERATOR NOTES	Page 4
OPERATING STEPS	Page 6
TROUBLESHOOTING	Page 8
CONTACT US	Page 9

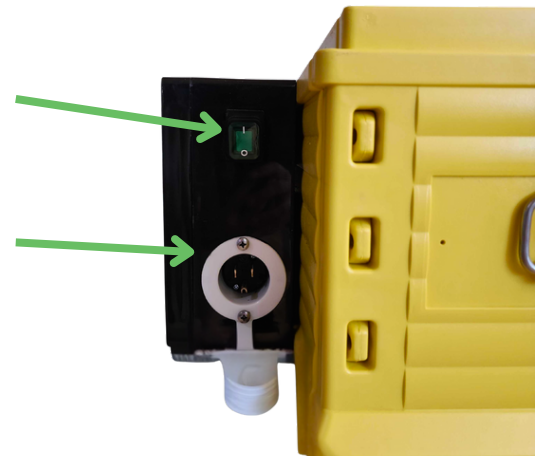
SYSTEM OVERVIEW



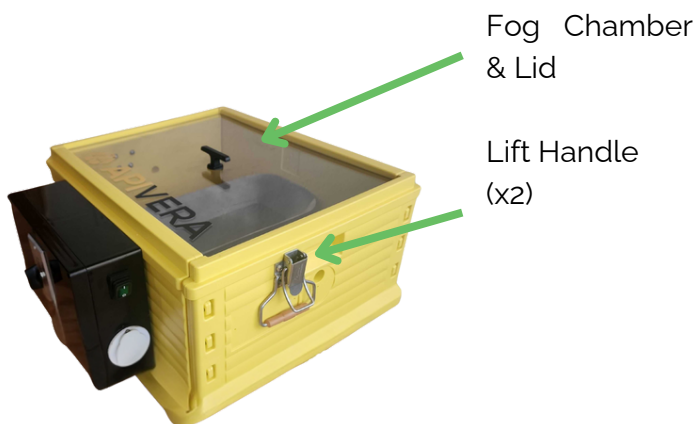
Front

On/Off Switch

120 VAC Power Connection



Power Supply



Side

Fan (x2)

Fog Reservoir

Fog Generator



Internal



SAFETY PRECAUTIONS

GENERAL SAFETY WARNINGS

- Always disconnect power before servicing. Unplug the unit from the electrical supply before performing maintenance, cleaning, or transporting the unit long distances.
- Do not operate the unit if damaged. If the power cord, plug, housing, or any component appears damaged or compromised, discontinue use and contact a qualified technician.
- Avoid contact with live electrical components—risk of electric shock. Internal components carry high voltage. Only qualified personnel should open or service the unit.
- Do not submerge any part of the unit unless instructed to do so. Submersion of the entire unit may cause permanent electrical damage and risk of injury.
- Use only grounded (3-prong) outlets. The unit must be connected to a properly grounded GFCI-protected outlet. This reduces the risk of electrical shock.
- Do not modify the power cord or plug. Tampering with electrical connectors can cause fire or shock hazards and void certifications.
- Do not use in explosive atmospheres. Keep away from flammable liquids or vapors.

ELECTRICAL SAFETY NOTES

- Do not run the power cable through standing water or puddles. Keep all electrical components elevated and dry.
- Arrange cords to prevent tripping or cable damage. Avoid placing cables across high-traffic paths or sharp corners.
- Ensure all connections are dry before plugging in. Moisture at electrical interfaces may result in arcing and short circuits.
- Use only extension cords rated for outdoor use and with sufficient amperage. Indoor extension cords are not suitable and may cause overheating or fire.
- Do not operate the device if the plug or power cord is wet. Unplug and allow components to fully dry before reconnecting.

WATER HANDLING SAFETY

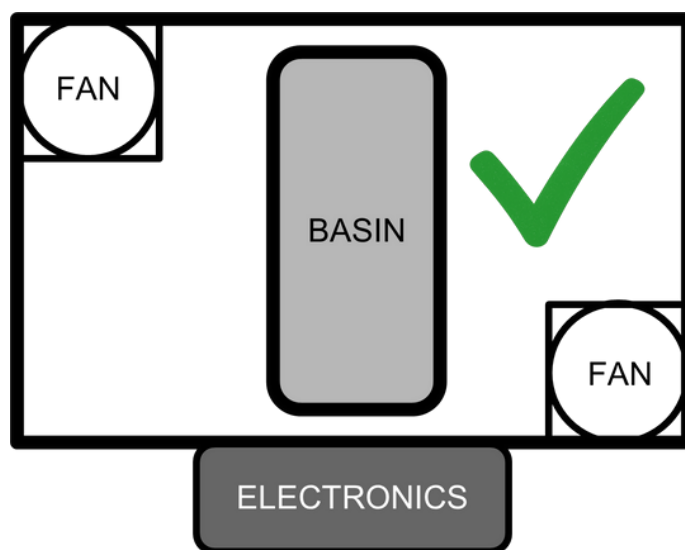
- Do not direct water spray toward electrical outlets or housing. Avoid splashing the power entry point of the device.

OUTDOOR USE CONSIDERATIONS

- Shield the device from direct exposure to rain when not in use. Store indoors in a dry location.
- Do not operate during lightning storms. Disconnect the unit from power to prevent damage from voltage surges.
- Protect the unit from freezing temperatures. Drain all liquid from the device when not in use to prevent internal damage.
- For best performance, install on a stable, level surface. Avoid installing near slopes, loose soil, or uneven pavement.

OPERATOR NOTES

✓ For maximum effectiveness/coverage, the reservoir and fog generator device **MUST** be placed in the center of the fogging enclosure **PERPENDICULAR** to the hive frames (See Figure Below). Other orientations of the reservoir will lead to less effective applications.



✓ **Before storage**, drain and rinse the reservoir with clean water.

⚠ **Do not lift** the on-hive Applicator from the ELECTRONICS ENCLOSURE. Always lift by the handles or hive-box housing.

⚠ **Maintain proper fill levels:** minimum ~1 L, maximum 1.8 L. Below ~600 mL, the device will not run.

⚠ **Do not overfill** — excess liquid reduces fogging effectiveness. The maximum fill volume is 1.8L.



OPERATOR NOTES

OPERATING SPECIFICATIONS

PARAMETER	SPECIFICATION
INCOMING VOLTAGE REQUIREMENT	110-120 VAC
INCOMING CURRENT REQUIREMENT	5 Amps
INCOMING POWER REQUIREMENT	400 Watts
SYSTEM WEIGHT - HIVE FOGGER	23.5 lbs
SYSTEM DIMENSIONS - HIVE FOGGER	24"x22"x12"

OPERATOR RESPONSIBILITIES

- Read and understand all instructions before use. Keep this manual available for future reference.
- Only operate the device as intended. Improper use may result in injury, equipment damage, or improper fogging.
- Keep unauthorised personnel away from the device during operation. Only trained and authorized users should operate the unit.



1. CONNECT TO POWER

- Plug into a 120 VAC source (generator, power bank, inverter).
- Source must supply at least **400W / 5A**.

2. PLACE THE FOGGER ON THE HIVE TO BE TREATED

- Open the top of the hive and place the Hive Fogger on the top of the open hive frame.

3. FILL FOG GENERATOR BASIN WITH CHEMISTRY

- Remove the Hive Fogger lid and add ApiVera Chemistry to the Fog Reservoir until liquid is above the marked line.
- Fill range:** 1.0–1.8 L (minimum ~1 L, maximum ~1.8 L).
- Note: Volume may vary if hive isn't level.

4. REPLACE THE LID ON THE HIVE FOGGER

- Replace the Fog Chamber Lid on the top of the fogger to force the fog to enter the hive once the device is activated.

5. TURN ON POWER

- Flip the GREEN toggle switch on the control box.
- Switch will light if power is properly connected.



OPERATING STEPS

6. SET TIMER & APPLY

- a. Use Dial Timer to set fog time (3 - 5 minutes recommended).
- b. Fogger will start automatically and stop when timer expires or liquid is used.

7. RESET & MOVE

- a. Turn off the GREEN switch, remove the fogger, and move to the next hive.
- b. Repeat steps 2–7 for all hives.

8. STORAGE

- a. Store indoors in a dry area, away from excessive moisture.
- b. Always rinse the reservoir and Fog Generator with water before storing.
- c. Wipe down the fans with a wet cloth before storing.



TROUBLESHOOTING

ISSUE	POSSIBLE CAUSES	SOLUTIONS
When the dial timer is set, nothing happens. (no fans or fog generated)	1. Main Power Switch is turned off 2. Power source does not meet minimum power requirements.	1. Verify the GREEN power switch on the electronics box is turned ON (switch will illuminate) 2. Verify the power source meets the Operating Specifications
When the dial timer is set, the fans turn on, but no fog is generated	1. Insufficient liquid level 2. Basin/fogger is not sufficiently level	1. Verify the liquid level in the basin is above the minimum required level. 2. Adjust the basin/hive so that the liquid level is more evenly distributed across the basin, satisfying both RED sensors on the fog generator device

SERVICE/SPARE PARTS INFORMATION

Contact Terra Vera Support for any inquiries regarding spare and replacement parts via

www.terravera.com/contact

or email

support@terravera.com



CONTACT US

 www.terravera.com

 info@terravera.com

 505-289-0642

 3777 Corrales Rd, Corrales, NM

At Terra Vera, we're proud to stand alongside beekeepers in protecting colonies and advancing sustainable hive care. Your ApiVera Portable Hive Fogger is built for reliability, but if you ever have questions about operation, maintenance, or best practices, our team is here to help. Whether you need troubleshooting support, guidance on treatments, or simply want to share your beekeeping experience, we'd love to hear from you. Together, we can build stronger, safer hives.

