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› Farm Innovators 1500 Watt Cast Aluminum Submersible Water Tank Deicer, Model H-439, Instruction Manual

Farm Innovators, Inc. H-439

Farm Innovators 1500 Watt Submersible Water Tank Deicer

Model: **H-439** | Brand: **Farm Innovators, Inc.**

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your Farm Innovators 1500 Watt Cast Aluminum Submersible Water Tank Deicer, Model H-439. This device is designed to prevent water from freezing in livestock watering tanks, ensuring a continuous supply of liquid water for animals during cold weather conditions. The deicer features a self-regulating thermostat and an anti-chew cord protector for enhanced safety and durability.



Image 1.1: Two Farm Innovators 1500 Watt Submersible Water Tank Deicers, Model H-439.

2. IMPORTANT SAFETY INFORMATION

Read all instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the deicer is connected to a properly grounded 120V AC outlet. Do not use with ungrounded outlets or adapters.
- **Extension Cords:** If an extension cord is necessary, use only a heavy-duty outdoor-rated cord (minimum 12-gauge) that is specifically designed for outdoor use and rated for the deicer's wattage (1500 watts). Ensure connections are dry and protected from moisture.
- **Cord Protection:** The deicer is equipped with an anti-chew cord protector. However, regularly inspect the cord for any signs of damage, fraying, or animal chewing. Discontinue use immediately if damage is observed.
- **Placement:** Always place the deicer at the bottom of the water tank. Do not allow it to float or be partially submerged.
- **Water Level:** Ensure the deicer is fully submerged in water before connecting to power. Never operate the deicer in an empty or partially filled tank.
- **Plastic Tanks:** The caged barrier design makes this deicer safe for use in plastic buckets and tanks without risk of warping or melting.
- **Maintenance:** Disconnect power before performing any maintenance, cleaning, or inspection.

- **Supervision:** While designed for safety, periodic observation of the deicer and animals is recommended.

3. PACKAGE CONTENTS

Your package should contain the following items:

- Two (2) Farm Innovators 1500 Watt Submersible Water Tank Deicers (Model H-439)

4. PRODUCT SPECIFICATIONS

Feature	Specification
Model Name	H-439
Power	1500 Watts
Voltage	120V AC
Material	Cast Aluminum
Dimensions (L x W x H)	14 x 14 x 6 inches
Weight (per unit)	3.50 pounds
Control	Self-Regulating Thermostat
Cord Feature	Heavy-Duty Anti-Chew Cord Protector

5. SETUP INSTRUCTIONS

Follow these steps to properly set up your deicer:

1. **Unpack:** Carefully remove the deicer from its packaging. Inspect the unit and power cord for any visible damage. Do not use if damaged.
2. **Placement:** Place the deicer at the bottom of the water tank. Ensure it rests flat and is fully submerged in water. The caged design allows for safe use in plastic tanks.

FRESH WATER IN ANY WEATHER

MODEL H-429 >>> Submersible De-Icer

Designed to submerge in the water so that the deicer does not get in the way of animals and features a protective cage that makes it safe for use in plastic containers.

An anti-chew sheath protects the cord from curious critters' teeth.

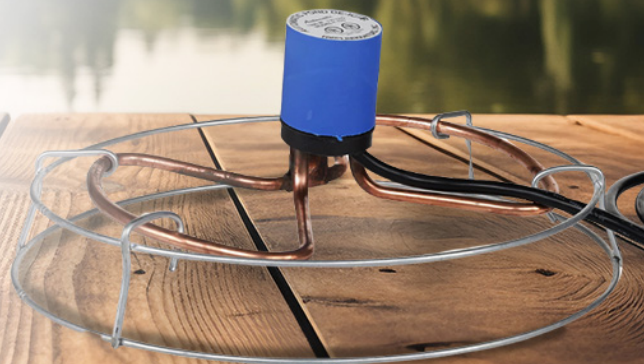


Image 5.1: Deicer placed at the bottom of a water tank.

- Water Level:** Fill the tank with water, ensuring the deicer is completely covered. The deicer must always be fully submerged when powered on.
- Cord Routing:** Route the power cord away from areas where animals might chew on it, despite the anti-chew protector. Secure the cord if necessary to prevent accidental dislodgement or damage.



Image 5.2: Deicer with power cord and plug.

- Power Connection:** Plug the deicer into a grounded 120V AC outdoor-rated electrical outlet. If using an extension cord, ensure it meets the safety requirements outlined in Section 2.

6. OPERATING INSTRUCTIONS

The Farm Innovators Submersible Water Tank Deicer operates automatically:

- Automatic Operation:** The deicer is equipped with a self-regulating thermostat. It will automatically activate when the water temperature approaches freezing and deactivate once the water is above freezing. This ensures efficient operation and prevents unnecessary power consumption.
- Continuous Water Supply:** The deicer maintains a small area of open water, providing animals with access to liquid water even in sub-freezing temperatures.

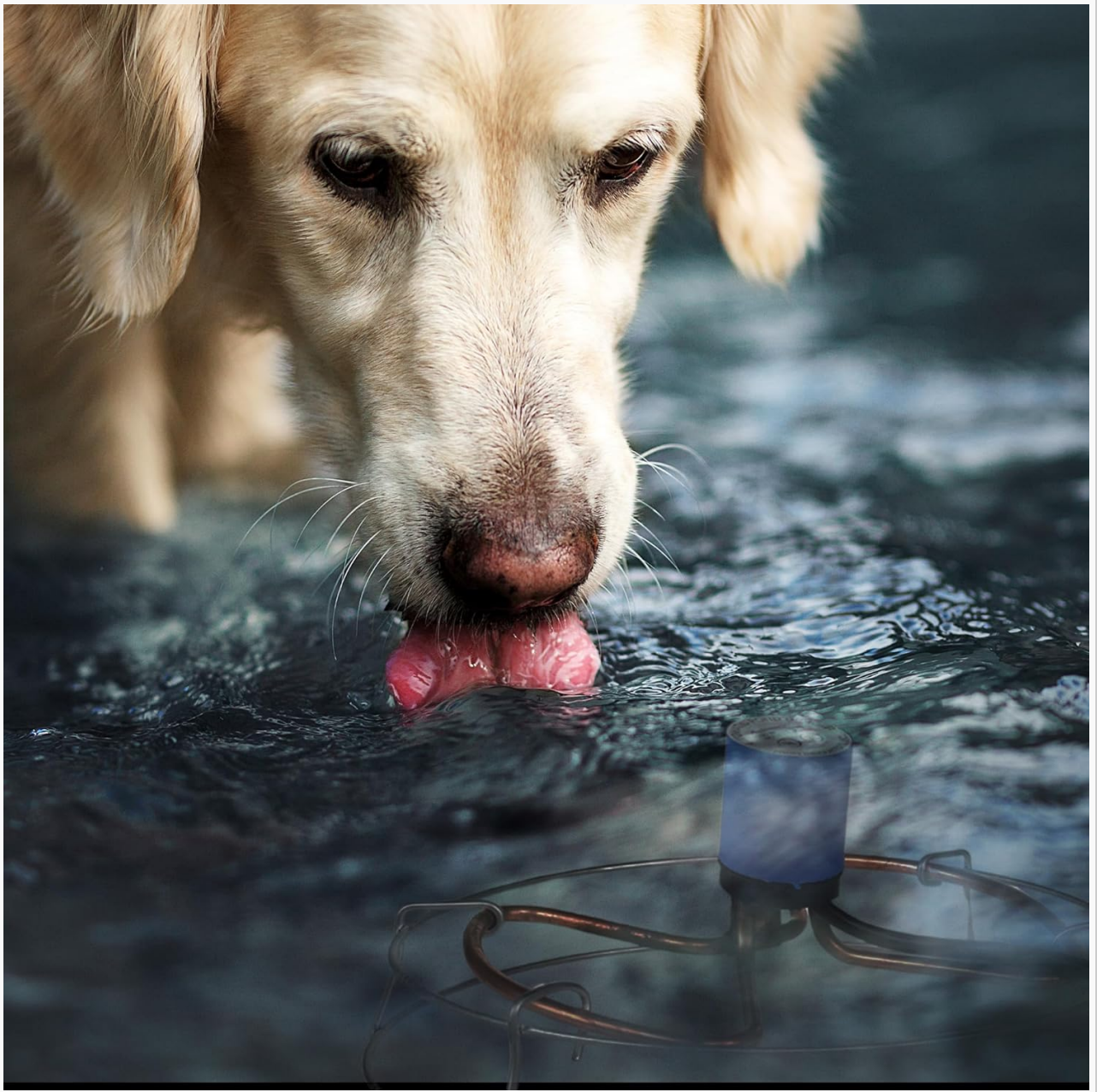


Image 6.1: Dog drinking water from a tank with the deicer.



Image 6.2: Horse drinking water from a tank with the deicer.

- **Monitoring:** Periodically check the water tank to ensure the deicer is functioning correctly and that animals have access to unfrozen water.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your deicer:

1. **Disconnect Power:** Always unplug the deicer from the power source before performing any cleaning or maintenance.
2. **Clean Regularly:** Remove the deicer from the tank and clean off any mineral deposits, algae, or debris that may accumulate on the heating element or cage. Use a brush and water; avoid harsh chemicals.
3. **Inspect Cord and Unit:** Regularly inspect the power cord for cuts, abrasions, or other damage. Check the deicer unit for cracks, corrosion, or loose components. If any damage is found, discontinue use and replace the unit.
4. **Storage:** When not in use (e.g., during warmer months), clean the deicer thoroughly, allow it to dry completely, and store it in a dry, safe place away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

If your deicer is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Deicer is not heating.	No power to the unit. Faulty deicer. Thermostat not activated (water not cold enough).	Check power outlet, circuit breaker, and extension cord. Inspect deicer and cord for damage; replace if necessary. Verify water temperature is below 35°F (2°C) for thermostat activation.
Water is partially freezing.	Deicer not adequately sized for tank volume/ambient temperature. Deicer not fully submerged. Excessive wind chill.	Ensure deicer wattage is appropriate for your tank size and typical winter temperatures. Add more water to fully submerge the deicer. Consider windbreaks around the tank.
Power cord or unit shows signs of damage.	Animal chewing or physical damage.	Immediately unplug the unit. Do not use a damaged deicer. Replace the unit.

9. WARRANTY AND SUPPORT

For warranty information, product support, or to inquire about replacement parts, please contact Farm Innovators, Inc. directly. Refer to the product packaging or the official Farm Innovators website for current contact details. It is recommended to retain your purchase receipt as proof of purchase for warranty claims.

