

DE-ICER INSTRUCTIONS

About Our Units

Model C-250

250 Watts/120 VAC/2.0A for use in tanks up to 25 gallons. Safe in plastic. 35 degrees-45/50 degrees.

Model C-500

500 Watts/120 VAC/4.2A for use in tanks up to 50 gallons. Constructed of durable cast aluminum.
Safe in plastic.

READ CAREFULLY AND ENTIRELY

1. The models C-250 and C-500 are still safe to use in plastic, structural foam and metal tank applications.
2. De-icers will "only" operate when temperature reaches freezing.
3. All the units are De-Icers (designed to keep water de-iced only). Each unit is thermostatically controlled to turn on when the "water temperature approaches freezing" and will "turn off according to the internal thermostat shut-off temperature".
4. Low voltage is possible cause for failure or poor performance. Measure voltage at receptacle with unit energized. Voltage drop means wattage reduction. Extension cords are what cause voltage drop and are unsafe to use.

INSTALLING YOUR UNIT

1. Have a qualified electrician install a properly grounded receptacle outlet, acceptable for outdoor use and protected from the rain and snow, immediately adjacent to the location where the unit will be used.
2. Route supply cord through 1-1/2" or 2" piping or conduit for safety while locating the unit so as to be protected from damage and/or chewing by livestock.
3. DO NOT USE EXTENSION CORDS!
4. Inspect the cord before using.
5. Do not plug unit in until the tank is filled with water and the unit is positioned in the tank. Do not operate the unit out of water. This will void the warranty.
6. Unplug the unit at receptacle when not in use or before removal from tank.
7. Store unit indoors after winter use, following thorough cleaning of unit.

MAINTENANCE

1. If the unit freezes due to power loss, allow the unit adequate time to melt itself free. Do not chip or cut at the unit while plugged into the receptacle.
2. Do not allow lime deposits or other impurities to build up on the heating element. This can cause "hot spots" which is the primary reason for failure, and voids the warranty. Remove the impurities by using vinegar or LimeAway on the heating element.
3. When taking the unit out of service, disconnect the power supply cord, remove the unit from the water, clean the element (see above) and store indoors.

LIMITED WARRANTY

Model C-250 and C-500 are guaranteed for one (1) year after the original date of purchase or date stamped on the unit due to materials and the company's workmanship only.

THE FOREGOING WARRANTY DOES NOT APPLY IF -

1. The power cord or unit shows evidence of livestock damage or consumer negligence.
2. The ground terminal on the electrical plug has been removed or another plug has been used in place of the original plug.
3. Allowing lime or other water impurities to build up on the heating element causing possible "hot spots" which is a primary reason for the heating element to fail. Periodically, you should clean the heating element with vinegar or LimeAway.
4. The unit has been allowed to operate out of water except when performing Air Test.

AIR TEST

1. Set unit in freezer for one hour, or outside if the temperature is below 35 degrees, for one hour (out of water).
NOTE: This is an air test - do not test the unit in the water.
2. After one hour, plug the unit into a known good receptacle. Hold the unit by the supply cord. Within seconds, the element should begin to heat. Listen for the thermostat to "click off". Unplug and cool down the unit. The unit is working properly.



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READ ALL INSTRUCTIONS BEFORE INSTALLATION

*Tile coming up from below the frost line should be from 10" to 14" according to the size of the unit. If installing on your old tile, the 6" tile will work.

*This unit is equipped with immersion elements. They **MUST** be immersed at all times when electricity is operating.

*Fill the unit with fresh water. The thermostat has a range of 37 to 55 degrees.

HEAT CABLE (40W X 120V X 60" LONG)

*Install heat cable at the top by elbow and valve. Never let cable come into contact with water. Using plastic pull ties, secure heat cable all the way down the waterline. Wire should never overlap each other. Never wrap this heat cable around plastic pipes; serious damage could occur.

**FAILURE TO FOLLOW INSTRUCTIONS CAN RESULT IN INJURY
AND/OR PROPERTY DAMAGE.**

**THIS UNIT AND HEAT TAPE MUST BE INSTALLED
BY A QUALIFIED ELECTRICIAN AND PROPERLY
GROUNDED.**

REMEMBER: A good installation and occasional maintenance is the key to the equipment giving satisfactory service.