

Operation

Simply place the unit into the water that you wish to keep de-iced. Connect the cord to a properly grounded, GFCI-protected receptacle while observing the cautions above. The unit will turn on when the water temperature approaches freezing conditions and will heat the water 10 to 20 degrees Fahrenheit before turning off.

Multiple thermostats within the unit monitor water temperature as well as guard against overtemp conditions.

Please note: the unit will not turn on unless the water temperature is approaching freezing. If you wish to test the unit, you must place it in a freezer for 15 minutes to get it cold enough to turn on.

Maintenance

Do not allow lime or other impurities in the water to build up on the heating element. The frequency of cleaning depends directly upon the composition of your water supply. The unit has a non-stick coating for easy cleaning. However, you may wish to use lime removing cleaners that can be obtained at any farm or hardware store. Use a soft brush for cleaning.

Specifications

Models DT250, BDT250
250 watts, 120 VAC, 60 Hz
Models DT500
500 watts, 120 VAC, 60 Hz

Troubleshooting

The de-icer has been fully tested and is guaranteed to perform to specifications; there are no user adjustments or modifications on the unit. However, you can perform certain checks for the following conditions:

If Frost Forms Around The Rim

Even in sub-zero temperatures, water will evaporate. As it does, frost may form around the edge slightly above the water level. This is natural and since the frost does not actually touch the water, it will not be melted by the de-icer.

If Ice Forms

Check that you have power to the de-icer by unplugging the unit and plugging in an electrical device such as a lamp or power tool. If no power is present, check that a breaker has not been tripped or a fuse blown. If the breaker or fuse checks out ok, inspect the wiring to the outlet, otherwise remove the unit before resetting the breaker or replacing the fuse and follow the instructions for testing the unit with a GFCI as described in the next section below.

If there is power present and the air temperature has dropped rapidly, a thin layer of ice may form before enough heat can be added to the water to counteract the drop in temperature. If, however, the ice has not begun melting within 60 minutes, you should return the unit to the place of purchase.

To Test The Unit With A GFCI

The de-icer may be tested by placing it into a freezer for 15 minutes and then immediately plugging it into a GFCI-protected outlet. The unit should turn on. For further testing the unit can be placed in water before it is plugged in. If the unit turns on and does not trip the GFCI, it is operating properly. If you have questions regarding its operation, please contact Allied Precision at (800) 627-6179 or (630) 365-0340.

If The Animals Are Being Shocked

Test the unit with a GFCI as noted above. If it is operating properly then the source of the shock is coming from a voltage on the ground wire from your electrical system. You should consult an electrician or contact Allied Precision for assistance.



Caution

1. Have a qualified electrician install a properly grounded receptacle outlet, acceptable for outdoor use and protected from snow and rain, immediately adjacent to the location where the heater will be used.
2. Route the supply cord and locate the heater so as to be protected from damage.
3. Inspect the cord before using.
4. Do not use extension cords. Approved for use only with the API LOCKNDRY detachable power supply cord.
5. Unplug the heater at receptacle outlet when not in use or before removing from tank or pond.
6. Store heater indoors after winter season.
7. Connect to properly grounded outlets only.
8. **Connect only to a circuit that is protected by a Ground Fault Circuit Interrupter (GFCI).** This is a sensitive device that cuts off the electricity if there is any leakage of current. This device may be obtained from any electrician or hardware store.

Important

This product is approved for use only with the LOCKNDRY® extension cord. It is not approved for use with any other extension cords. The plug on this product is specially designed to mate with the LOCKNDRY cord to form a water-resistant seal. See the back of this sheet for instructions on the LOCKNDRY cord.

LOCKNDRY Features

The LOCKNDRY detachable power supply cord provides a secure, water-resistant connection that is UL approved for use with stock tank deicers whereas conventional extension cords are not. The LOCKNDRY cord set features:

- Plugs into any normal 3-prong outlet
- Mates with LOCKNDRY plugs to form a water-resistant seal
- Keeps connection from separating during use
- Second, locking nut for secure connections
- Outdoor-approved cord set
- UL listed

Attaching the LOCKNDRY Detachable Power Supply Cord

(Available Separately)

1. Insert the plug into the receptacle just as you normally would, making sure that the plug is fully inserted.



2. Slide the large nut forward to engage the threads on the plug.



3. Rotate the large nut to tighten the plug against the receptacle. **HAND TIGHTEN ONLY.**



4. Slide the thinner red nut forward to engage the threads.



5. Rotate the red nut until it is snug against the larger nut. **HAND TIGHTEN ONLY**



Caution

To provide continued protection against shock:

- A. Connect the heater appliance and API LOCKNDRY per these instructions and those provided with the API LOCKNDRY cord set.
- B. Connect only to a properly grounded GFCI protected receptacle outlet.
- C. Use no more than one LOCKNDRY cord set for an installation. Do not use an extension cord if the receptacle is located such that the heater and/or LOCKNDRY cord set cannot be plugged in. Have a qualified electrician install a properly grounded GFCI protected receptacle outlet, acceptable for outdoor use and protected from snow and rain where the heater will be used.
- D. Use only the LOCKNDRY cord set referenced in the instructions.
- E. Locate the heater and route its supply cord and LOCKNDRY cord set so as to be protected from damage.
- F. Keep the LOCKNDRY and heater supply cord set connection a minimum of 6 inches above ground to avoid wetting by pooling water or accumulated snow.
- G. Inspect heater supply cord and LOCKNDRY cord set before using. Do not use if the supply cord and/or LOCKNDRY cord set is damaged.
- H. Do not unplug heater from the LOCKNDRY cord set. Unplug the LOCKNDRY cord set only at receptacle outlet when not in use or before moving location of heater.
- I. Store the LOCKNDRY cord set and heating appliance indoors after the winter season.

Warranty

This de-icer is warranted for a period of 3 years from the date of purchase. If you believe your de-icer is defective and still within the warranty period, return it to the factory or place of purchase for inspection and possible replacement. The warranty is voided if (1) the ground terminal on the plug has been removed, (2) excessive deposits have been allowed to accumulate on the heating element, or (3) there is evidence of general abuse such as animals chewing on the cord. This warranty does not cover incidental or consequential damage resulting from either a defect in parts, materials, or operation failure. Some states do not allow the exclusion or limitation of the above damages so the above limitation may not apply to you. No agent, employee, or representative of Allied Precision has any authority to bind Allied Precision to any affirmation, representation or warranty directed towards any products bearing the Allied Precision name, except as stated herein. This warranty gives you specific legal rights; you may also have other rights which vary from state to state.