



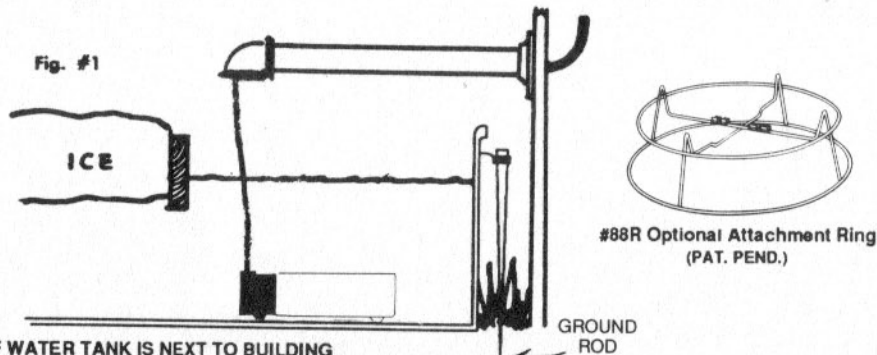
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**IMPORTANT:** To insure safety for both you and your livestock it is essential that you read and follow all instructions.

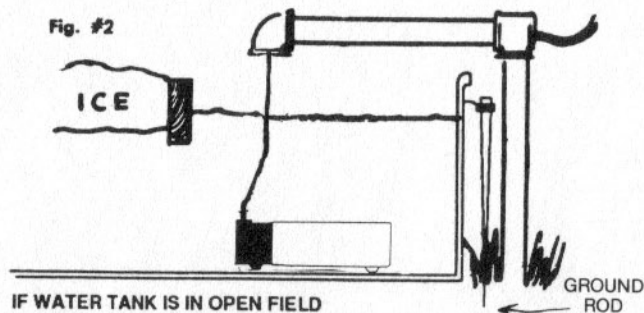
## INSTRUCTIONS FOR MODEL 15CA, 1500W, 120V AC

**DO YOU INTEND TO USE THIS IN A NONMETALLIC TANK?** (fiberglass, rubber, structural foam, etc.) To prevent burning or a fire in a nonmetallic tank you must use our Model #88R Attachment Ring. This ring will create a barrier between the heating element and the combustible tank surface. The use of this ring is mandatory due to the likelihood of the deicer tipping in the tank (causing the heating element to rise out of the water and coming in contact with the combustible side of the tank) or the loss of water (causing the heating element to come in contact with the combustible bottom of the tank). Check with your dealer or contact the factory for immediate shipment of the Mod 88R (illustrated below).

**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 by livestock, (3) do not use extension cords, (4) inspect cord before using, (5) unplug heater at receptacle outlet when not in use or before removing from tank, (6) store heater indoors after winter season and (7) to ensure continued protection against shock hazard, connect to properly grounded outlets only.



**IF WATER TANK IS NEXT TO BUILDING**  
Bring heater cord thru 1-1/4" galvanized pipe into building.



**IF WATER TANK IS IN OPEN FIELD**  
Use 1-1/4" inch galvanized pipe with elbow and tee to support heater cord. This system could also be used with underground conduit bringing power supply.

### THIS HEATER HAS A BUILT-IN SAFETY DEVICE:

In the event this heater is removed or thrown from the water tank, the unit is designed to shut off before the heating element becomes hot enough to ignite a fire. If left energized the built-in safety device will gradually begin to cool - eventually allowing the heater to begin to operate. The heater will "cycle" like this until it is either immersed once again in water or the plug is pulled. Although the heater will not be hot enough to ignite a fire it will be hot enough to burn your hand or possibly scorch the surface it is lying on.

As with any thermostat or other safety device, failure is always a possibility; therefore, it is your responsibility to install this heater so your livestock cannot remove it from the water tank. The safety device is designed as an emergency back-up and not as a substitute for proper installation. It is your responsibility to install this appliance in a manner which will prevent your livestock from throwing the heater from the tank or the tank running dry.

### TROUBLE SHOOTING:

If the heater doesn't appear to be heating . . .

- The unit is designed to de-ice water. This means the heater will not operate until the water temperature is approximately 40°F -- and you must wait as long as 30 minutes for this to happen.
- For your safety the heater is designed to shut off within 40 seconds when removed from water. It will only come "on" again when allowed to remain in water or air at a temperature below 40°F for about 30 minutes.
- Check to see that you have electricity to your female receptacle. Have you blown a fuse? Outdoor receptacles gather a good deal of corrosion and this corrosion can stop electricity from reaching the heater. We suggest you unplug the heater, then slightly spread the prongs on the plug, and then replug into the receptacle. If this solves the problem, we suggest you install a new receptacle.

### SUGGESTIONS:

As an extra safety precaution we recommend that a GROUND FAULT INTERRUPTER be installed in the circuit. This is a very sensitive device that cuts off the electrical current if there is any leakage of electricity in your water tank. This device may be obtained from any electrician or hardware store.

### WARRANTY

This de-icer is warranted for a period of 36 months from the date of purchase. If you believe your de-icer is defective and still within the warranty period, return it to the factory for inspection and possible replacement. The warranty is voided if (1) the ground terminal on plug has been removed, (2) excessive deposits have been allowed to accumulate on heating element, (3) there is evidence of general abuse such as animals chewing on 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 or exclusion 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.