

AHRENS AGRICULTURAL INDUSTRIES, INC. BOX 686 GRINNELL, IOWA 50112 PHONE 641-236-5822 TOLL FREE 1-800-541-7866 FAX 1-641-236-3341

SPECIFICATIONS

PART 1 - GENERAL

A. DESCRIPTION

- 1. The E-fount is the finest operating, lowest cost, energy efficient livestock waterer on the market today. The sealed atmosphere helps prevent the formation of scum and algae. It also prevents tongue injuries from contact with frigid steel.
- 2. All edges are curved and sloped to prevent injury to people and animals.

B. WEIGHTS & DIMENSIONS

| Model # | Capacity | Gallons | Description | Dimensions | Weight |
|---------|--|---------|---------------------------------|-----------------|--------|
| 3330E | 50 hd. beef 30 horses 25 hd. dairy | 15 | 1-9" ball closure 9" opening | 26" x 28" x 16" | 50# |

C. MATERIAL NECESSARY FOR INSTALLATION:

- 1. Concrete
- 2. P.V.C. Glue
- 3. ¹#834 insulated tube
- 4. Thread sealer or teflon tape
- 5. Electrical connections

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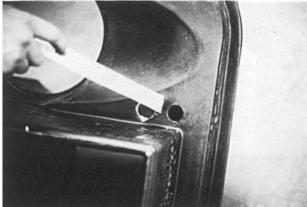
PART II - MATERIALS, PRODUCTS

- A. MATERIALS:
 - 1. High impact Rockite[™] polyethylene.
- B. INSULATION:
 - 1. The base, cover and lid closures are filled with a 3" thickness of Urethane foam.
- C. VALVE:
 - 1. Miraco plastic valve with stainless steel rod and ends.
- D. ELECTRICAL
 - 1. Cartridge heater 75 watt
 - 2. Cartridge thermostat

NOTE: FOR GRADE A DAIRY USE ONLY - ANTI SYPHON DEVICE.

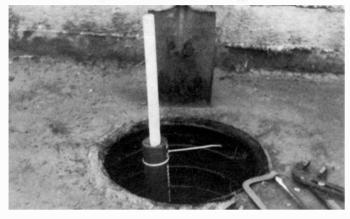
Remove the rubber plugs from the holes on the under side of the lid and insert the ³/4" PVC pipes provided. This will make your tank a non-syphon water supply for dairy. The PVC pipe is approximately 18" long and hangs down into the water from the top.

2 pipes are needed for Grade A Dairy operations and public water systems.



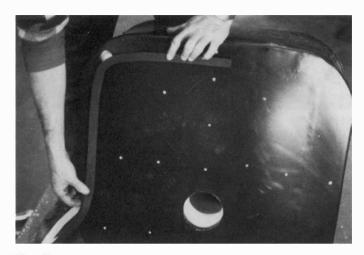
E FOUNT #3330E INSTALLATION INSTRUCTIONS

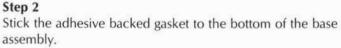
NOTE: For cold climates, insulate the upper portion of your heat well with styrofoam or blue board rigid insulation.



Step 1

Install your heat well at least 1' below frost or down to your water line to insure frost free operation. Install the water line so it comes up close to the center of the heat well. Always allow the cement to harden at least 72 hours before you continue to next steps. Place the pipe insulation over the fill line leaving it about 2" above the cement and pull the nylon tie tight so the insulation doesn't slip down. If a small heat well is used, use the heat cable provided by hanging it into the underground cavity.

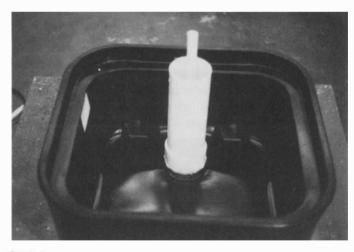




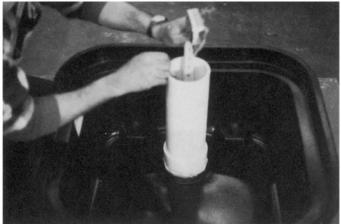


Step 3

After pulling your #14-3 romex or #14-2 with ground up through the hole provided, center your tank and drill 3/8" holes in the cement and drive the 3/8" stainless steel concrete anchors provided.



Step 4 Your fill line should be sticking above the 4" pipe as shown.



Step 5

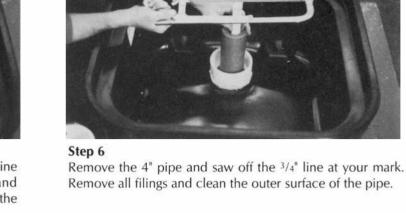
Measure down $2^{3}/4^{"}$ and make a mark on your $^{3}/4^{"}$ fill line or make a mark flush with the top of the 4" pipe and remove the 4" pipe and measure down $2^{3}/4$ " to locate the cut location.

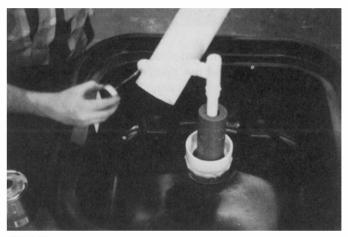


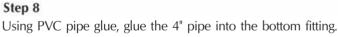
Step 7

Seal all the threaded joints with pipe sealer or teflon tape. Then glue the entire assembly onto the fill line. Point the fitting towards the near corner of the tank.

Before installing valve turn on water blowing out the line.

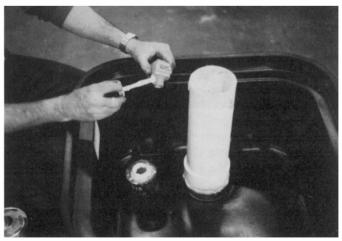






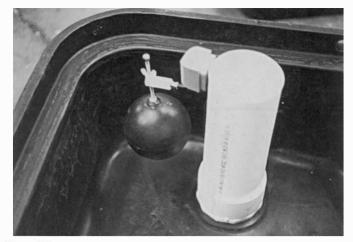


Step 9 Push the pipe down until the 3/4" fitting comes through the hole in the 4" pipe.



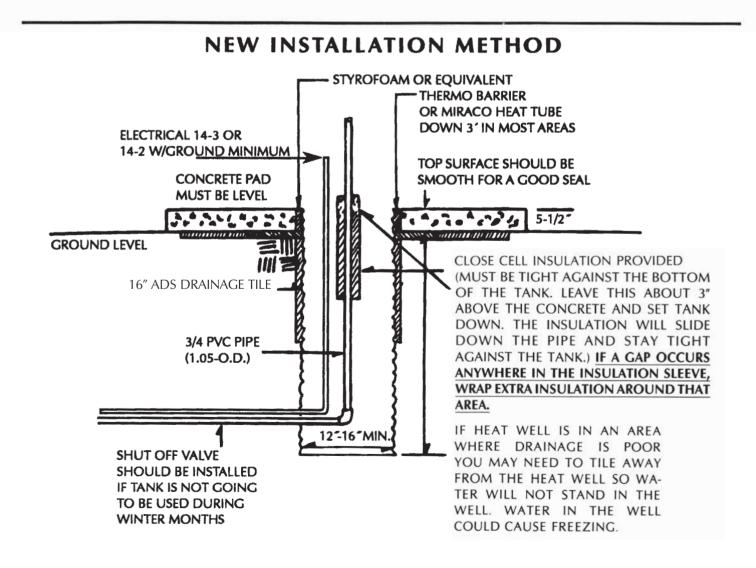


Using pipe thread sealer or teflon tape apply to the threaded end on the valve and screw the valve into the 3/4" fitting tightly. Hand tight is usually enough.



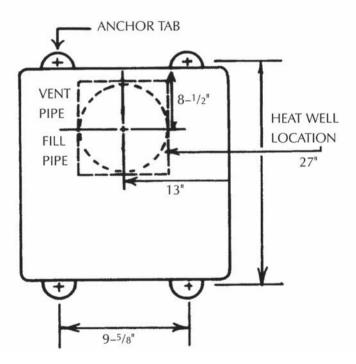
Step 11

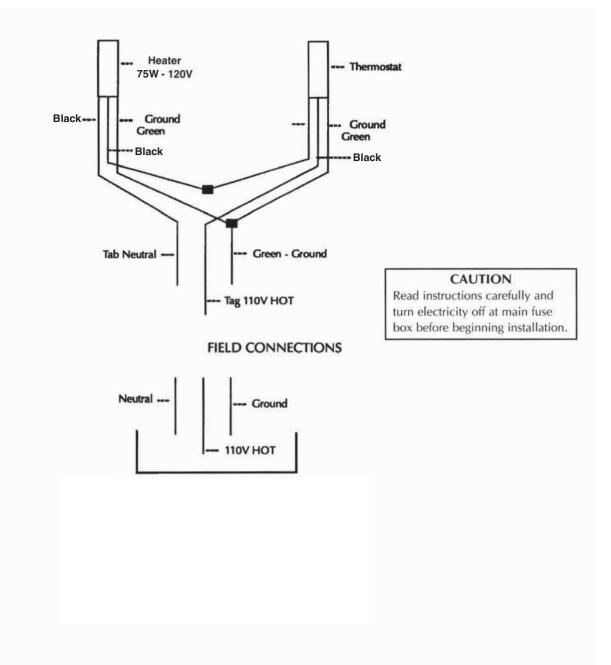
Attach the float assembly to the lower arm of valve using the ¹/4" thumb screw in the parts bag. Place drain plug in drain hole from the inside only. Place ball in bottom of waterer's base, begin filling. Install top of waterer to base. The final adjustment should be made through access post in the top. Proper water level is achieved when ball just touches the top of waterer. When the tank is full the float assembly should look exactly like the picture above.



BASE AND ANCHOR PLATE DIMENSIONS FOR 3330E

DRILL ANCHOR BOLTS IN AFTER SETTING TANK. USE 3/8" CEMENT DRILL





ELECTRICAL CONNECTION—Electrical service must be made and maintained by a qualified electrician. Each fountain must be wired through a fuse box with proper sized wire. (Refer to access plate for electrical requirements.) Hot wire must be run through the thermostat, and the neutral wire run to the white wire or neutral marked wire in junction box. A copper ground rod, buried in a minimum of 10' in soil, must be provided at each fountain. Connect ground wire from rod to ground connection in junction box.

THERMOSTAT-Preset at the factory for 50°.

WARNING—NEVER ALLOW THE E-FOUNT TO SET EMPTY UNLESS THE HEATER HAS BEEN TURNED OFF. ALWAYS DISCONNECT ELECTRICITY TO THE E-FONT BEFORE DRAINING. DAMAGE TO THE TANK CAN OCCUR.

WARNING: THIS INSTALLATION MUST BE MADE AND MAINTAINED IN STRICT CONFORMITY WITH NATIONAL/LOCAL PLUMBING CODES AND NATIONAL/LOCAL ELECTRICAL CODES (CSA IN CANADA). THE APPLICABLE PROVISIONS OF THESE CODES TAKE PRECEDENT. FAILURE TO MAKE AND MAINTAIN ALL INSTALLATIONS PROPERLY MAY RESULT IN LOSS OF LIVESTOCK, PERSONAL INJURY, OR DEATH.

NOTICE: CANADIAN ELECTRICAL CODE—PART 1 REQUIRES LIVESTOCK WATERERS INSTALLED IN FEEDLOTS IN OPEN FEEDING AREAS SHALL BE GROUNDED BY A SEPARATE COPPER GROUNDING CONDUCTOR OR AT LEAST NO.6 AWG TERMINATING AT A POINT WHERE THE BRANCH CIRCUIT RECEIVES ITS SUPPLY.

MODEL #3330-E MANAGEMENT TIPS

- 1. A 5/16" bolt is to be used to hold the balls back for training livestock. The 5/16" bolt is inserted into a threaded insert in the baffled portion of the lid. This holds the balls back for training.
- 2. Water level is very important. If the water is too high, the balls will stick shut in the winter time and the tank will appear frozen. A kick or small amount of hot water on the balls will fix the problem. Then lower the water level so this won't happen again. However, never lower water below the baffle.
- 3. In case of power failure, merely keep the livestock away from the waterer so they can't drink it down. If this has already happened, then a small amount of hot water is all you, need. <u>NEVER USE AN OPEN FLAME TO THAW ICE!</u>
- 4. Management is necessary in any operation and this includes checking your waterer daily. Water is very important and any malfunction should be attended to immediately. This is good practice for any make of waterers.
- 5. E-founts must be installed level, otherwise one ball will be higher than the others.
- 6. E-founts should be cleaned periodically, especially the ones being used for hogs. Mud can hamper the proper operation of the E-founts.
- 7. If your valve is seeping, check the valve for foreign materials first. This is the biggest cause of seeping valves. If you have extremely rusty water or dirty water, your valve should be cleaned periodically.
- 8. If you have any questions give us a call at 641-236-5822.
- 9. If valve persists on leaking, use an allen wrench to tighten the orifice under the plunger. Turn clockwise to tighten.
- 10. Drain plugs are to be placed inside the tank to plug the drain hole.
- 11. Never allow your E-founts to empty with the heat elements on. This could lead to damage to the element, tank or both. If you are going to drain your tank for any length of time, be sure your power is turned off.