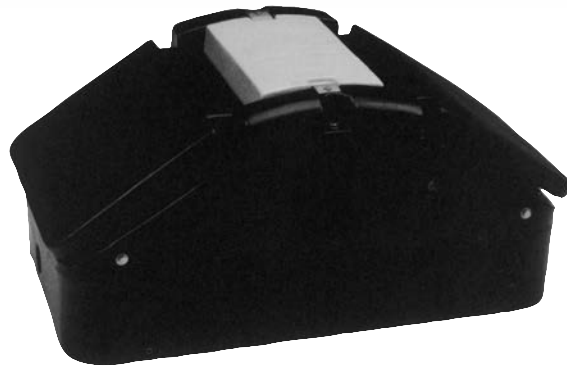


E Fount.



**INSTALLATION INSTRUCTIONS AND
SPECIFICATIONS FOR MODEL 3410-E**

READ CAREFULLY

MIRACO

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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
3410E	Hogs 80-100 fat hogs Sows 40-50	6	2 liftup lids	19" x 34" x 16" tall	53 #

C. MATERIAL NECESSARY FOR INSTALLATION:

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



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:

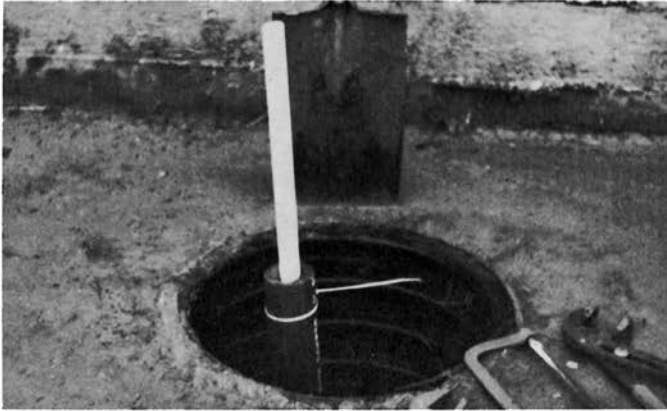
1. Miraco valve plastic with brass rods and ends.

D. ELECTRICAL:

1. Cartridge heater 75watt
2. Cartridge thermostat

E-FOUNT #3410E INSTALLATION INSTRUCTIONS

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



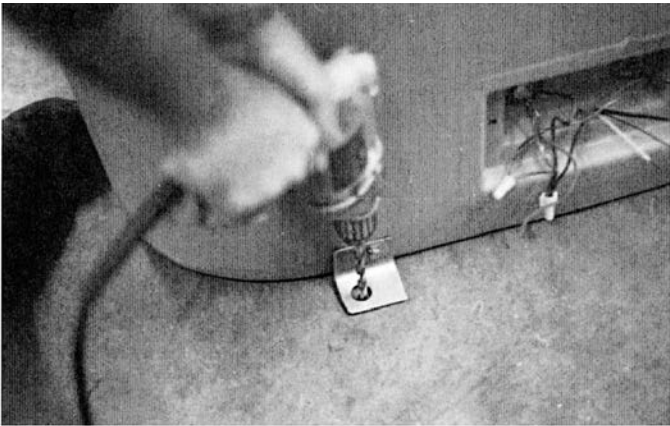
Step 1

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. For existing installation where a small hole is all you have, use a low wattage heat tape on the line to prevent freezing.



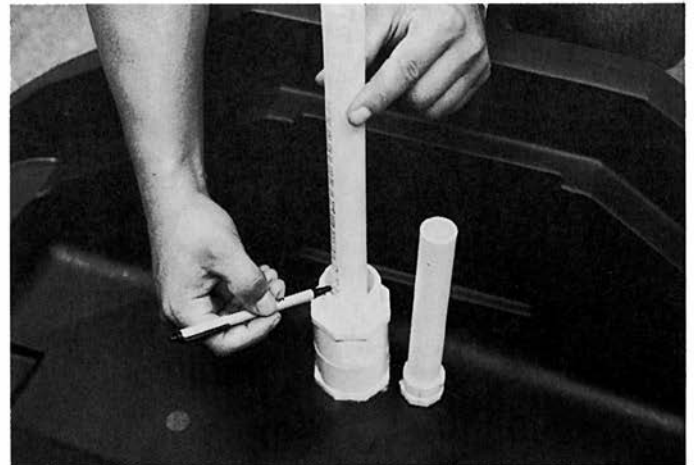
Step 2

Clean base and install your adhesive backed gasket material to the bottom of your base assembly.



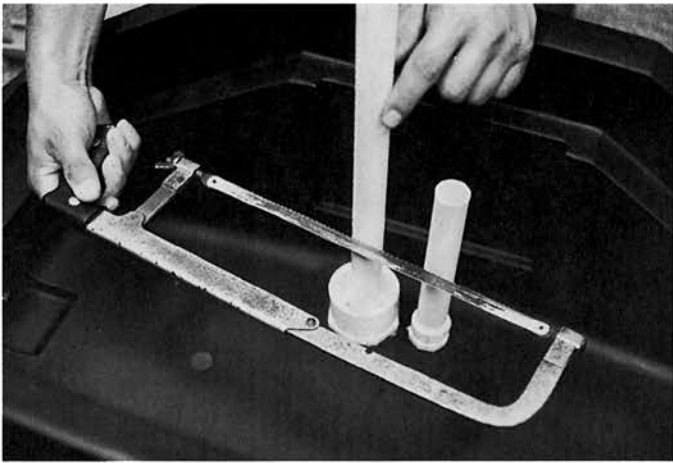
Step 3

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.



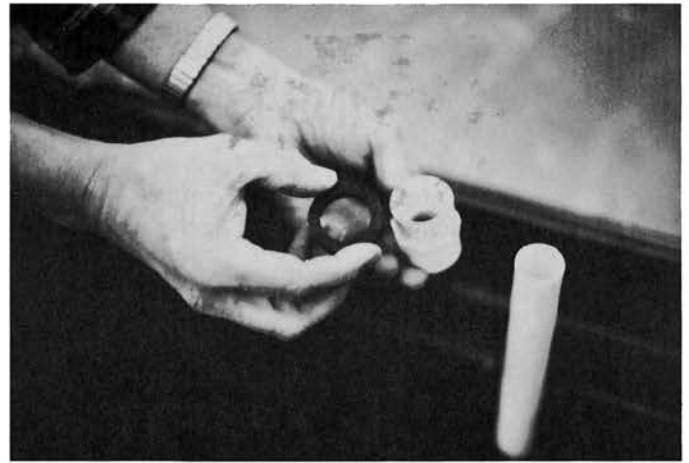
Step 4

Measure down 1/4" from the top of the 1 1/2" fitting and make a mark on the 3/4" fill line. Then remove the top 1 1/2" fitting. Merely pull it out, it is not glued in.



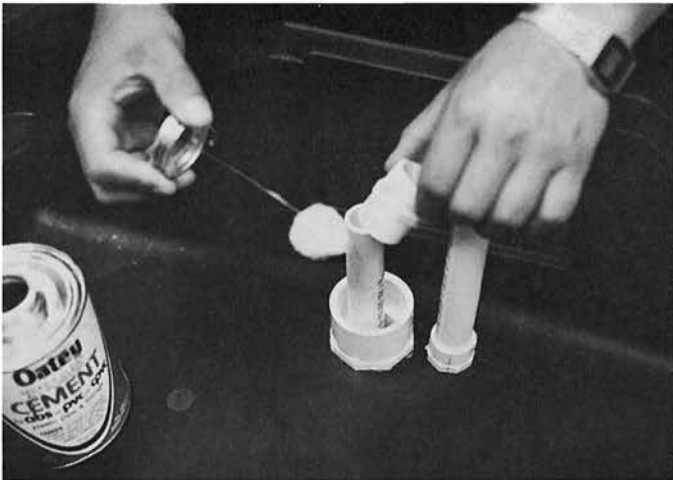
Step 5

Saw off the 3/4" line at the mark you made. Clean off all filings and clean to outer edge of the pipe.



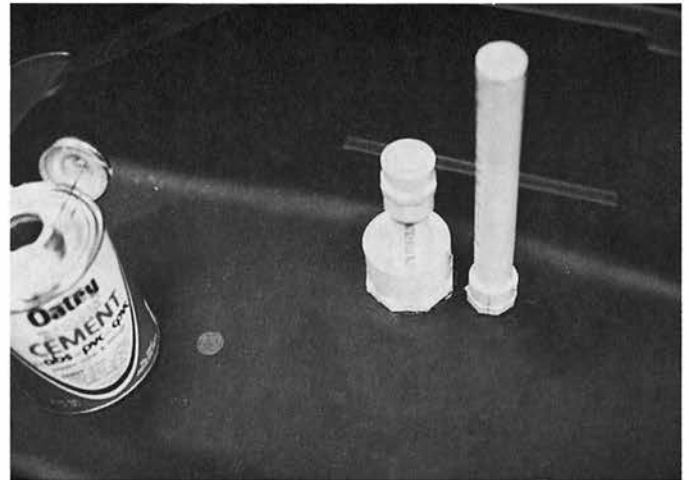
Step 6

Remove the rubber washer from the 3/4" female adapter and set aside for use later.



Step 7

Use PVC pipe glue to glue the fitting to the 3/4" fill line.



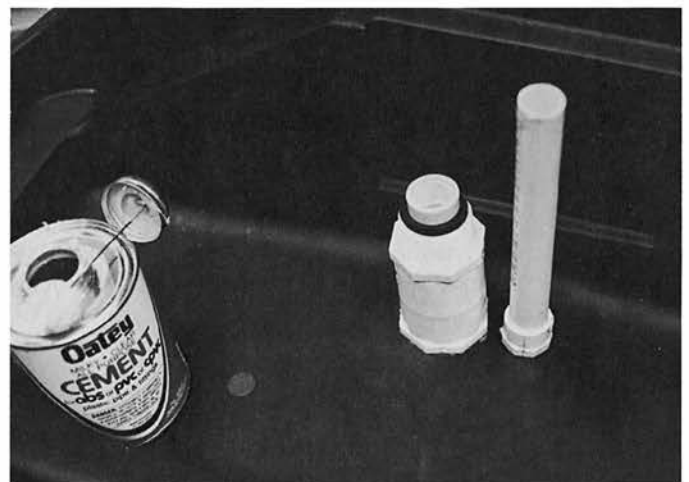
Step 8

Push the fitting on tight.



Step 9

Glue the PVC 1 1/2" fitting into the bottom fitting. Push down firmly so it seats in tight.



Step 10

Put the rubber washer back on the 3/4" female fitting. Slide on and into the groove. Make sure it is lying flat on top of the 1 1/2" fitting so you get a good seal.



Step 11

Screw the 1 1/2" trap nut on the 1 1/2" fitting and center the 3/4" fitting carefully so you get a good watertight seal. Now is a good time to flush your new system by turning on the water for awhile to flush line.



Step 12

Using pipe thread sealer or teflon tape treat the threads on the valve.



Step 13

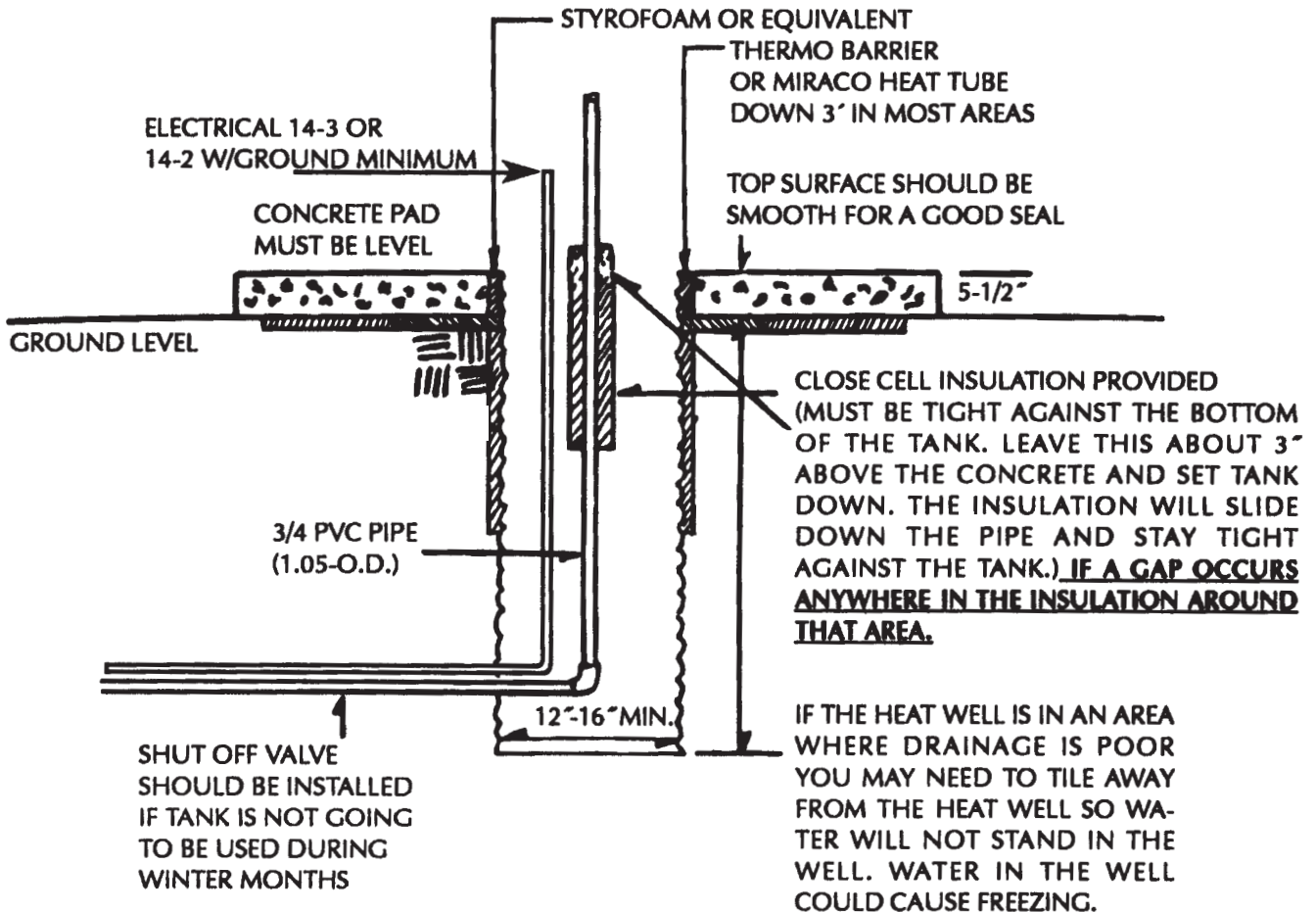
Screw the valve in tight into PVC fitting. Hand tight is usually enough.

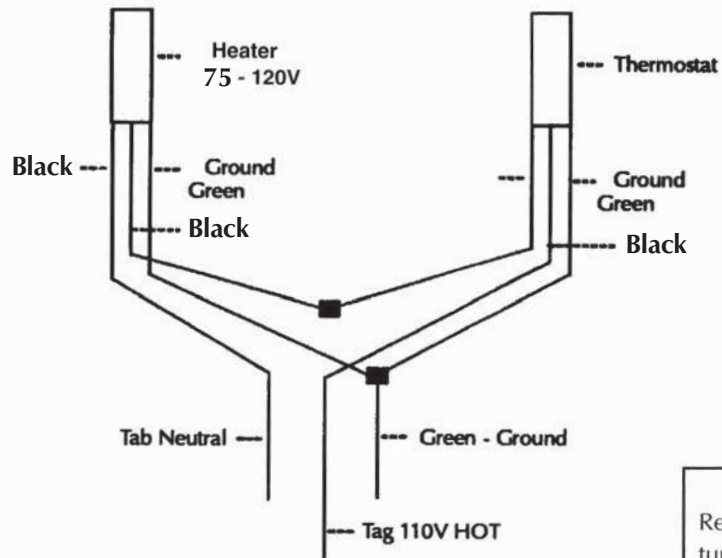


Step 14

Put the drain plugs in from the inside and install the float assembly with the 1/4" thumb screw. Fill the tank up to the top of the gasket on top of the base. The valve should shut off. When setting, use pliers to tighten the thumb screw. Then secure the top to the base and you're finished.

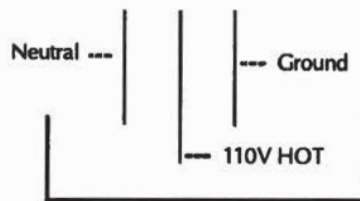
NEW INSTALLATION METHOD





FIELD CONNECTIONS

CAUTION
Read instructions carefully and turn electricity off at main fuse box before beginning installation.



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 3410E MANAGEMENT TIPS

1. 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. **NEVER USE AN OPEN FLAME TO THAW ICE!**
2. 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.
3. The MiraFount should be cleaned periodically, especially the ones being used for hogs. Mud can hamper the proper operation of the waterer.
4. 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.
5. If you have any questions give us a call at 641-236-5822.
6. If valve persists on leaking, use an allen wrench to tighten the orifice under the plunger. Turn clockwise to tighten.
7. Important: Water level should be maintained above the baffled area in the center of the tank
8. Drain plugs are to be placed inside the tank to plug the drain hole.
9. Always turn off electricity to the E-fount before draining for any length of time.

MODEL 3410E TANK DIMENSIONS AND ANCHOR BOLT LOCATIONS

DRILL ANCHOR BOLTS IN AFTER SETTING TANK. USE $\frac{3}{8}$ " CEMENT DRILL

3410E SHOULD **NOT** BE INSTALLED ABOVE FLOOR LEVEL!!
INSTALLING ABOVE FLOOR LEVEL MAKES IT HARD FOR SMALLER PIGS TO DRINK.

