

MiraFount



INSTALLATION INSTRUCTIONS AND SPECIFICATIONS FOR MODEL 3410

READ CAREFULLY

MIRACO

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SPECIFICATIONS

PART 1 - GENERAL

A. DESCRIPTION:

1. The MiraFount is the finest operating, lowest cost, energy-free livestock waterer on the market today.

B. WEIGHTS & DIMENSIONS

Model #	Capacity	Gallons	Description	Dimensions	Weight
3410	Hogs 80-100 market 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. 1 - #834 insulated tube required
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.

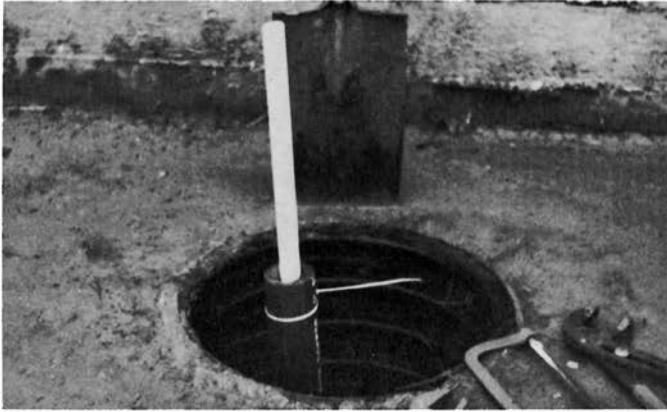
REPLACING EXISTING WATERER

OPTIONAL INSTALLATION METHOD

If installation of a 12" heat tube is impossible or difficult, use a low wattage, thermostat controlled, heat tape on the water line. Install the heat tape on the waterline, then slide the pipe insulation over both the waterline and the heat tape.

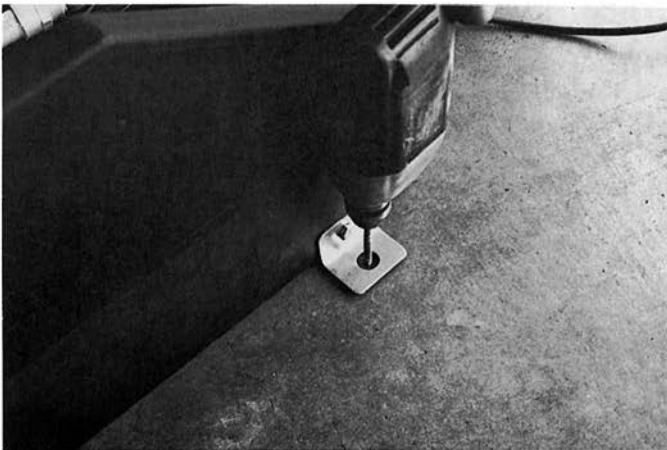
MIRAFOUNT #3410 INSTALLATION INSTRUCTIONS

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.



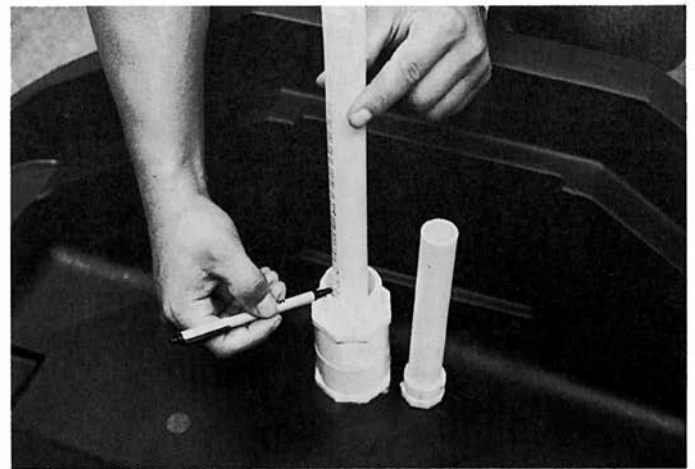
Step 3

Install the base clips with $\frac{5}{16}$ " x 1" hex head bolts. Then position the case over the water line. Drill $\frac{3}{8}$ " holes in the cement. Then drive the $\frac{3}{8}$ " x 4" anchor bolts into place and secure. Center the tank over the heat well. Don't leave any cracks where cold air can enter.



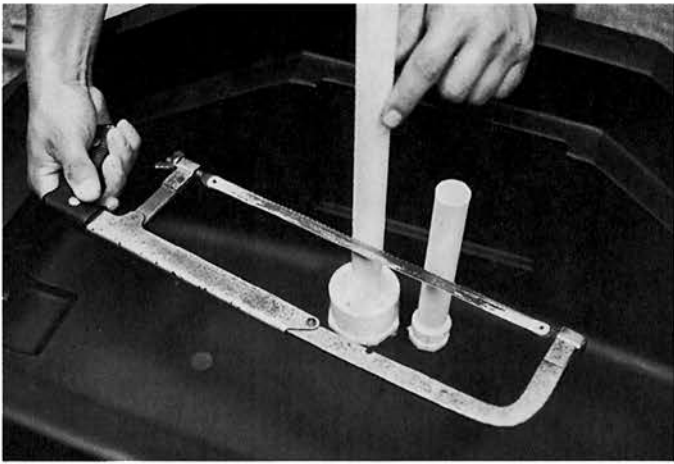
Step 2

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



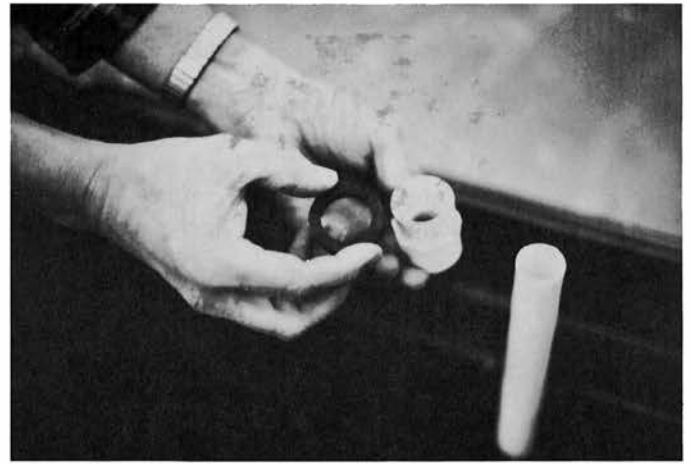
Step 4

Make a mark on the $\frac{3}{4}$ " PVC pipe even with the top of the $1\frac{1}{2}$ " pipe. Then remove the top $1\frac{1}{2}$ " fitting. Merely pull it out, it is not glued. Measure down $\frac{1}{4}$ " from your original work. Then go to Step 5.



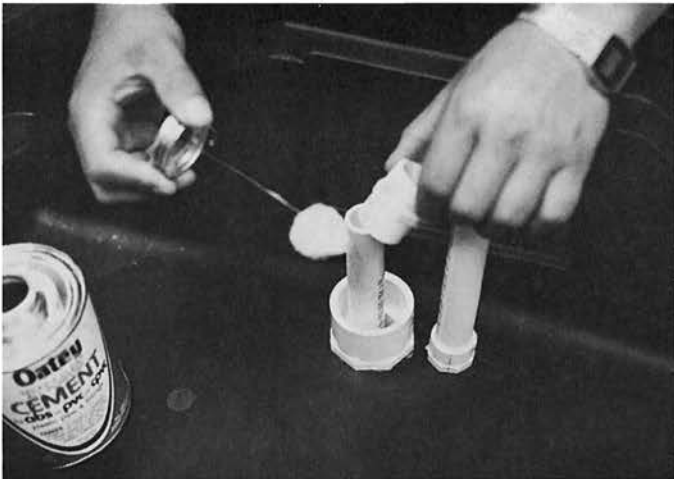
Step 5

Saw off the $\frac{3}{4}$ " line at the second mark you made. Clean off all filings and clean off outer edge of the pipe.



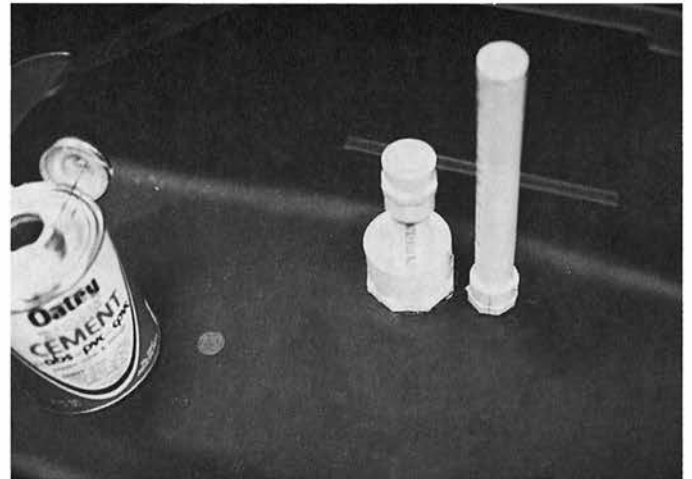
Step 6

Remove the rubber washer from the $\frac{3}{4}$ " female adapter and set aside for use later.



Step 7

Use PVC pipe glue to glue the fitting to the $\frac{3}{4}$ " fill line.



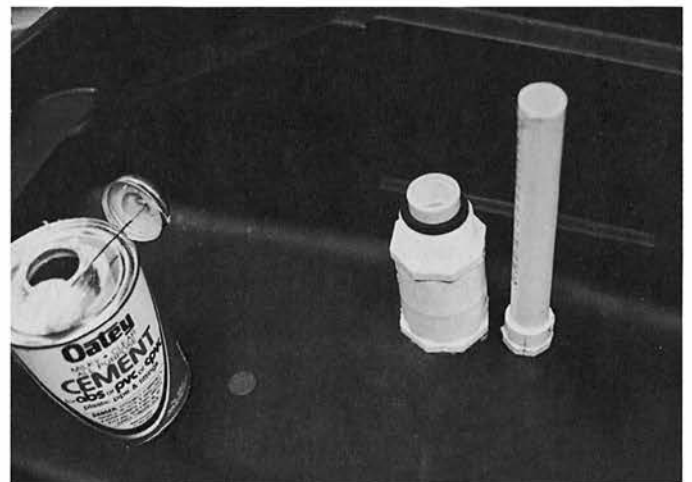
Step 8

Push the fitting on tight.



Step 9

Glue the PVC $1\frac{1}{2}$ " fitting into the bottom fitting. Push down firmly so it seats in tight.



Step 10

Put the rubber washer back on the $\frac{3}{4}$ " female fitting. Slide on and into the groove. Make sure it is lying flat on top of the $1\frac{1}{2}$ " 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. Teflon tape is preferred.



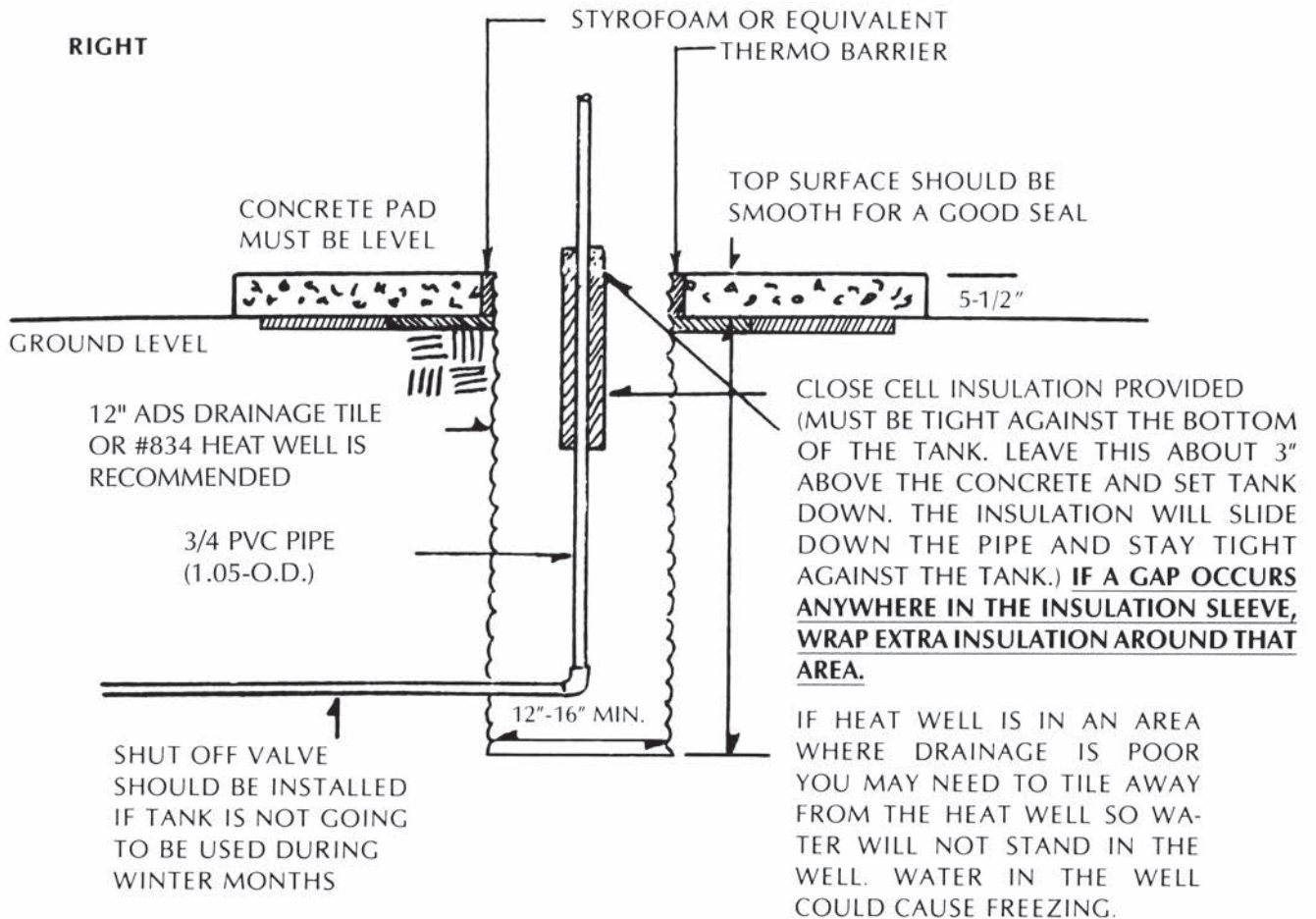
Step 13

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



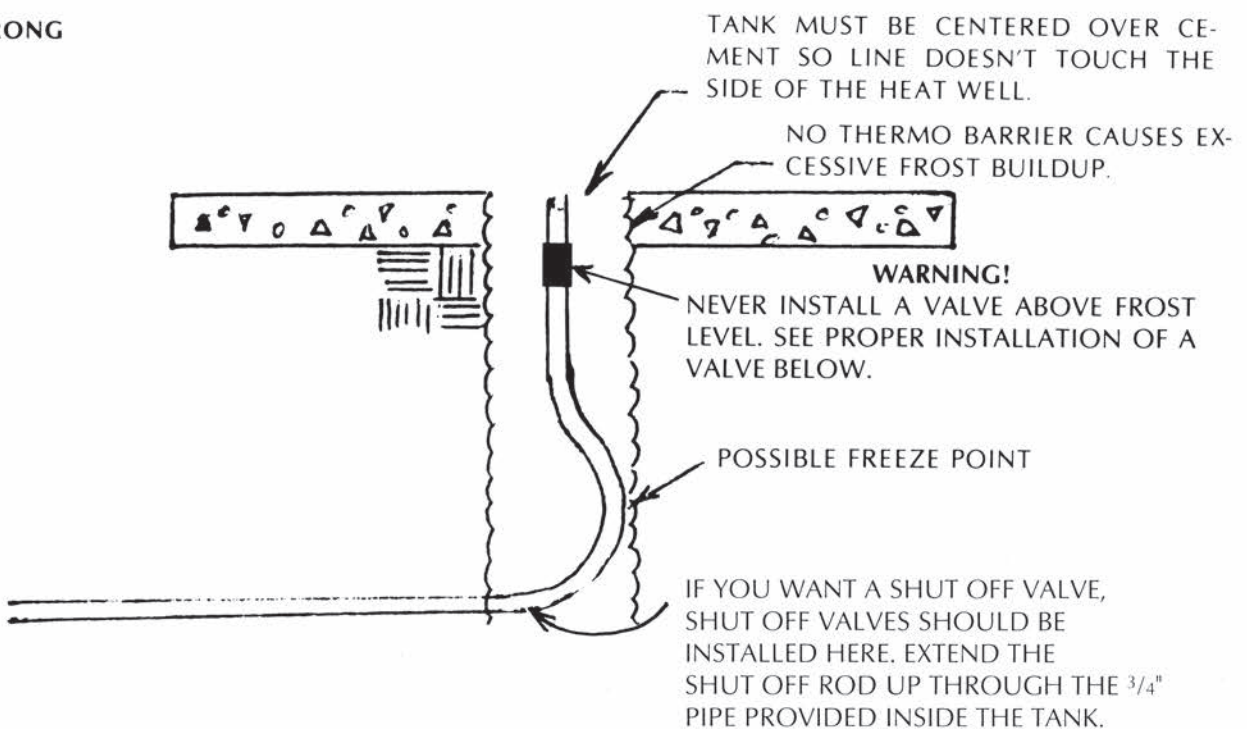
Step 14

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.



IF USING BLACK ABS PLASTIC PIPE, USE A PLASTIC NIPPLE WITH 3/4" THREADS TO MAKE THE TRANSITION TO THE 3/4" PVC PIPE PROVIDED. METAL FITTINGS ARE NOT RECOMMENDED.

WRONG

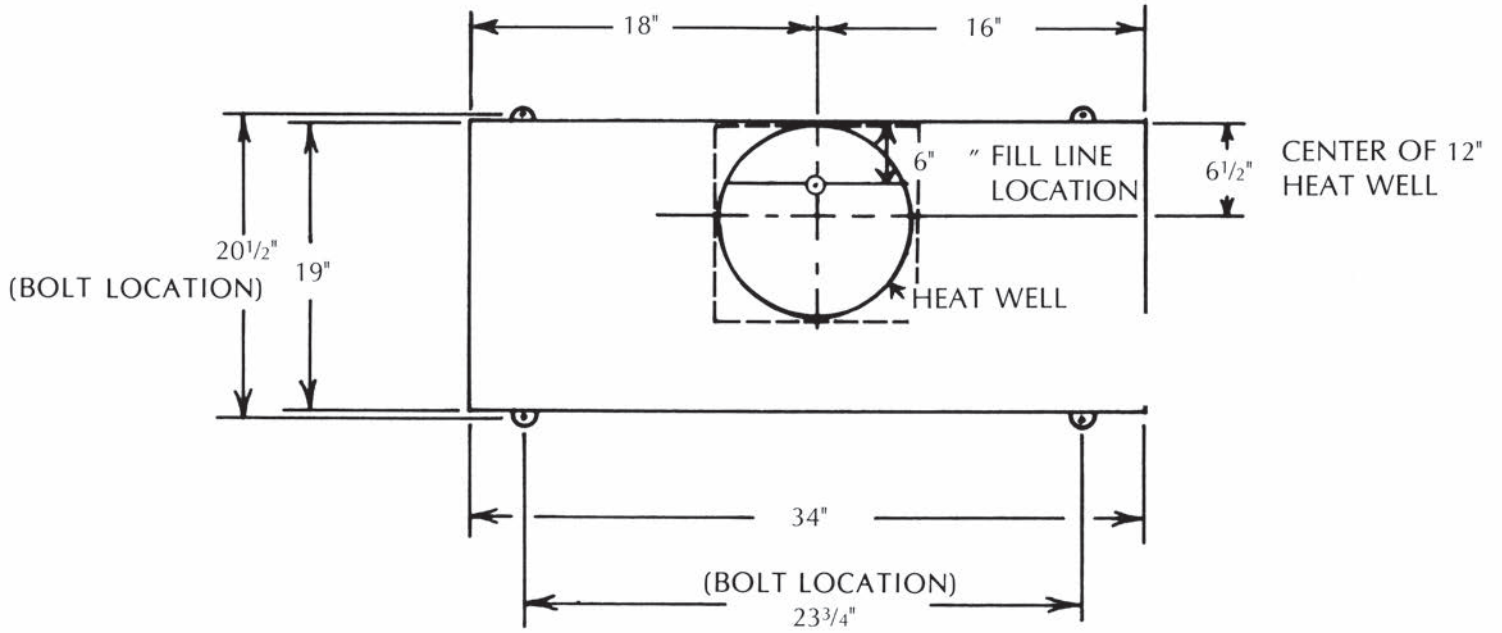


MODEL 3410 TANK DIMENSIONS AND ANCHOR BOLT LOCATIONS

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

#3410 SHOULD **NOT** BE INSTALLED ABOVE FLOOR LEVEL!!

IF INSTALLING ABOVE FLOOR LEVEL, MAKE ENOUGH ROOM FOR THE SMALLER HOGS TO STAND WHEN DRINKING.



MODEL 3410 MANAGEMENT TIPS

1. For short periods of time when you're not using the MiraFount in winter, you can dip 3-5 gallons of water out every day and the tank will sustain itself until livestock are using it again. If you plan on not using it for a long time, merely drain it and shut off the water. This is where the shut off valve comes in handy.
2. 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!**
3. 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.
4. The MiraFount should be cleaned periodically, especially the ones being used for hogs. Mud can hamper the proper operation of the MiraFount since the balls have to move freely in order to have proper operation.
5. 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.
6. If you have any questions give us a call at 641-236-5822.
7. If valve persists on leaking, use an allen wrench to tighten the orifice under the plunger. Turn clockwise to tighten.
8. Important: Water level should be maintained above the baffled area in the center of the tank
9. Drain plugs are to be placed inside the tank to plug the drain hole.