

Lil' Spring[®]



BY MIRACO



**INSTALLATION INSTRUCTIONS AND
SPECIFICATIONS FOR MODEL #2700-#2800-#2900**

READ CAREFULLY

MIRACO

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

specifications

Part 1 General

A. Description

1. Lil' Spring is a multi-purpose waterer designed to be used with a 250 watt heater in cold climates or without in warmer climates.

B. Weights & Dimensions

Model #	Gallons	Description	Dimensions	Wt.
2700	6	multi-purpose sheep-goats	17 ¹ / ₂ " x 28 ³ / ₄ " x 14" 14" drinking height 20 ¹ / ₄ " overall height	40
2800 (w/o heater)	4	multi-purpose electric	16 ¹ / ₂ " x 20" x 19" 19" drinking height 25" overall height	30
2900 (w/o heater)	6	multi-purpose electric	16 ¹ / ₂ " x 30 ¹ / ₂ " x 19" 19" drinking height 25" overall height	46

C. Material necessary for installation

1. concrete for the base
2. teflon tape thread sealer
3. #834 insulated tube



Part II Materials, Products

A. Materials

1. High impact rockite, Polyethylene

B. Valve

1. Miraco plastic valve

C. Float assembly

1. Stainless steel arm and thumb screw w/Polyethylene 4" x 5" float ball.

D. ³/₄" - 150 psi, rubber hose with PVC shutoff valve included.

E. Stainless steel ³/₈" x 4" concrete anchors included.

F. Optional Heater Kit #160 for cold climates.



Step 1

Pull the paper off the back of the rubber gasket and stick to the bottom edge of the tank. This is important to keep out air and water.



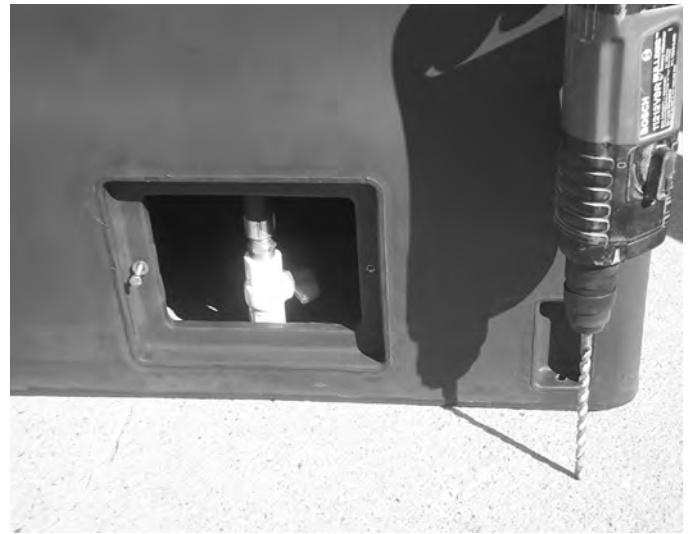
Step 2

Attach the rubber hose and shutoff valve assembly to your incoming water line. Use teflon tape on all fittings to prevent leaks.



Step 3

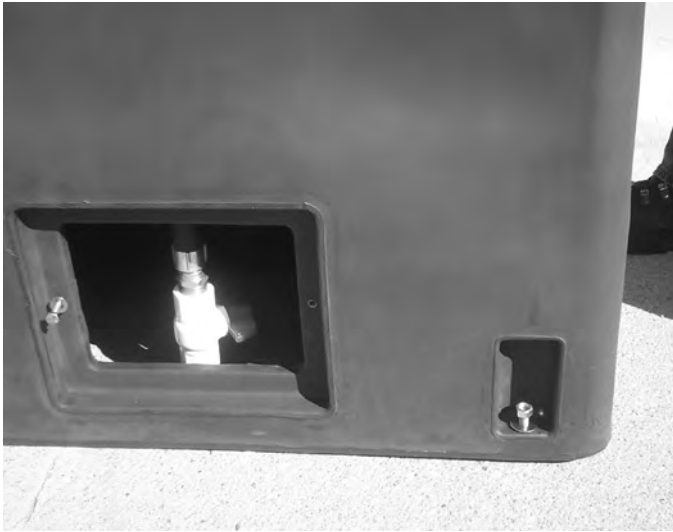
After attaching your hose and shutoff valve assembly, lift the tank over the hose and feed the hose up through the small opening into the valve compartment. Attach the blue valve and PVC fittings to the hose. Use teflon tape on all fittings to prevent leaks.



Step 4

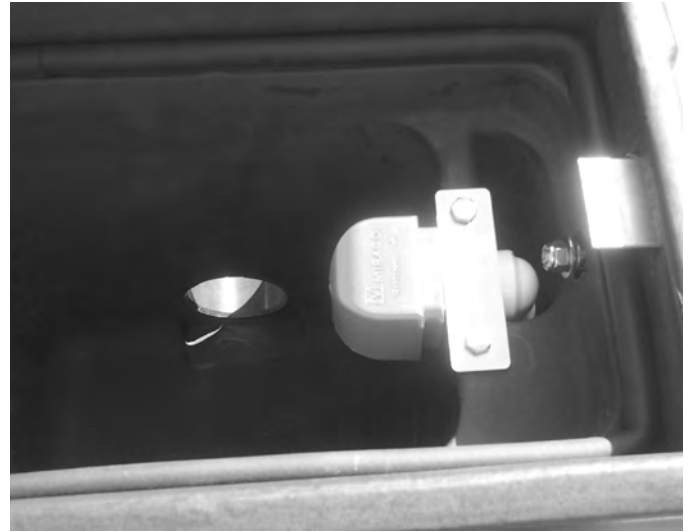
After marking anchor bolt locations with a pencil, drill 4-3/8" holes for the 3/8" x 4" anchor bolts included in your parts package.

*NOTE: When using the 250 watt Miraco heater, install with a properly grounded electrical line. The heater is to be placed in the valve compartment under the 4x5 bob float. The power cord is connected in the area where the water line is located.



Step 5

After driving your anchor bolts into the concrete (be careful not to drive in too far), set the tank over the bolts and secure with nuts and washers.



Step 6

Now push the valve assembly down into the molded cradle and secure with the stainless steel retainer and 2-1/4" x 1" bolts. Tighten until valve is tight.



Step 7

Drop your line heater into the area next to the water line. Attach the heater cord to the nylon fitting as shown. The line heater has a thermostat. The thermostat is located between the cord and the heat string. By placing it at the top of the pvc fitting it will turn on quicker when needed.



Step 8

Lay your 250 watt heater in the bottom of the valve compartment. Put the plug down the opening into the area below the tank. This is where you plug in both the tank heater and line heater. Attach your float assembly to the valve and turn the water on and adjust your water level. During warm weather remove the heater and hang in a dry area.

Do not wrap on the line. Let the heat cord hang alongside the water line, and attach with nylon zip ties to the water line for best results.



**A 50 watt heat cable is provided for your supply line to prevent freezing.
Do not wrap on the line. Let the heat cord hang alongside the water line.
Nylon zip ties are provided to hold heat string tight to water line.**

Miraco Livestock waterers Express warranty and Waiver of implied warranties and consequential damages

Express Warranty

Ahrens Agricultural Industries Co. , dba Miraco, expressly warrants that the Miraco waterers (excluding valve and valve parts) will be free of defects in materials and workmanship for a period of five (5) years from delivery. The Miraco valve and valve parts are warranted to be free of defects in materials and workmanship for a period of one (1) year from delivery. Such warranty does not apply to any Miraco unit that has been subjected to misuse, or material failure to install, operate or maintain in accordance with Miraco's written instructions, or other events acts or omission, including but not limited to acts of nature, which affect the Miraco unit materially and adversely and are not attributable to Miraco.

This warranty is limited to the repair or replacement of the defective part, at the option of Miraco. Such repair or replacement part is warranted only for the unexpired portion of the original warranty period. Buyers with warranty claims should contact their local dealer immediately.

Heaters in all electrically heated units are warranted for a period of one (1) year.

Waiver of implied warranties and Consequential damages

Except for the above express warranty, this product is sold as is. Implied warranties of merchantability and fitness for a particular purpose, as well as special, indirect or consequential damages, are all waived by the buyer.

