



## Peerless, Inc.

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### **Start-up Procedure Peerless FM/FM-M Softeners**

1. Pipe  $\frac{3}{4}$ " or 1" inlet and outlet service piping, according to the print, and arrows on bypass.
2. **Set brine tank in place on a clean, level surface.** This prevents bottom puncture when weight of water and salt are added. Connect brine line (furnished in brine tank) from brine tank to valve. Line must be air tight.
3. Connect  $\frac{5}{8}$ " OD poly tubing (not supplied) from valve to suitable drain. **DO NOT** use  $\frac{1}{2}$ " copper male adapter. It **WILL** crack drain housing on valve. Also, **DO NOT** connect drain line from control valve to overflow fitting on brine tank.
4. Test Water, and set computed grains of hardness, and number of people in family to appropriate setting.
5. Turn large dial on valve from service position to backwash position. Now, very slowly open bypass valve (do not open all the way until all air has been removed from resin tank). Open bypass to **FULL** service and let run, (5 minutes minimum).
6. Slowly turn large dial to (brine refill) position and let run until all air is removed from brine line, (1 minute minimum).
7. Fill brine tank with water until approximately 1" above the grid.
8. Turn dial to next position (service).
9. Plug attached power cord into 120V AC outlet. Press red button and set the time of day to the actual time of day.
10. Fill brine tank with salt. Peerless recommends Hardi-Cube, Dura-Cube or Mini-Cube or salt substitutes, i.e. Potassium Chloride, (trade names) K-Life or Soft Touch. These are recommended for their high solubility and purity. The use of softening agents such as rock, solar or block salt will **Negate the Warranty** on your equipment as they are not pure enough and will cause possible problems for your equipment.
11. Open cold water valves in house to relieve air. Let water run for 3 minutes and test cold water to make sure it is soft.
12. Hot water from the water heater (unless drained and filled with soft water) will not become soft until the customer has used approximately 3 times the holding capacity of the water heater.
13. Write the installation date (month/year) on the sticker found on the front of the cover that fits over the control valve.

# INSTALLATION DIAGRAM

## Specifications

Rough in dimension: From the floor to the center of bypass approximately 50"

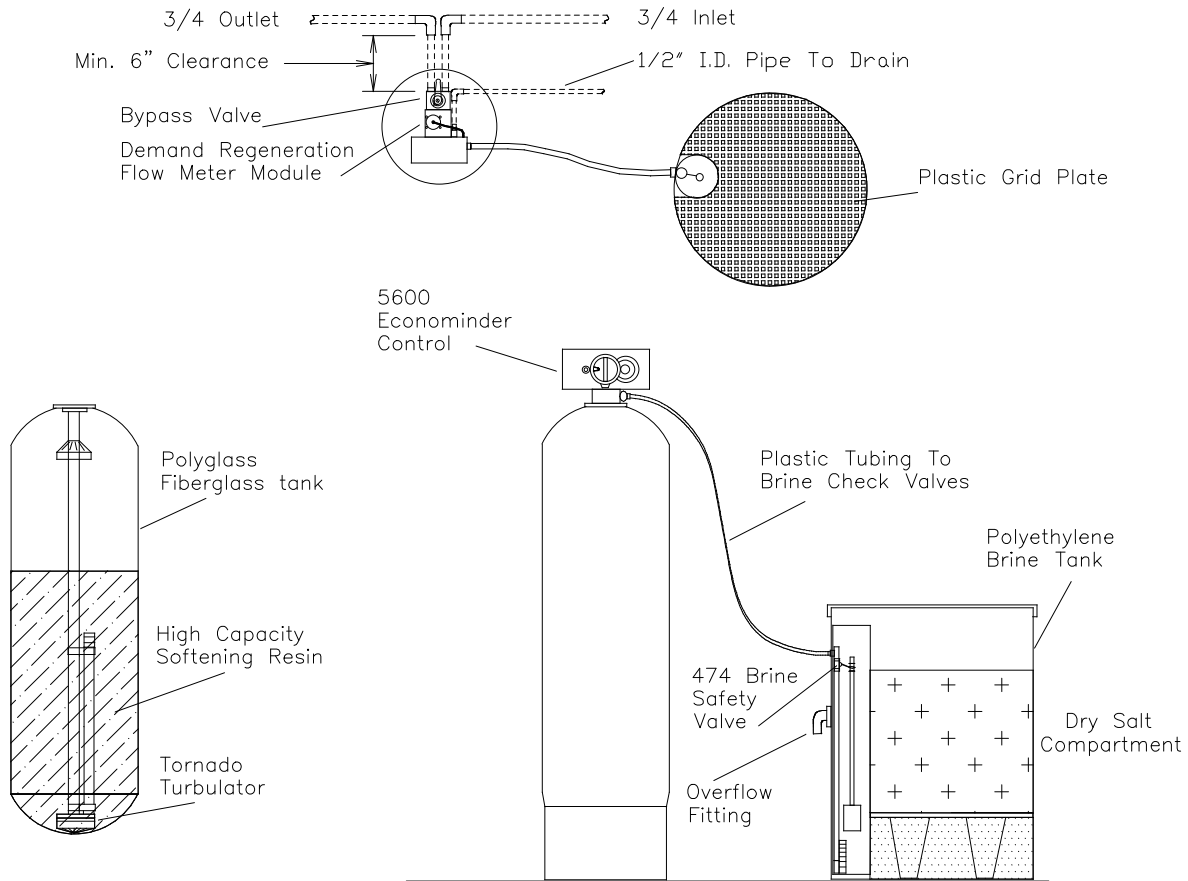
Maximum distance and size for drain line: 50' horizontal , 10" vertical rise, using 1/2" ID drain line

Maximum distance and size for brine line: 15' horizontal (see note) using 1/4" ID poly tubing

Note: The horizontal distance for the brine tank can be increased to 35' if the brine tank is installed above the unit.

Example: Softener installed in the basement and brine tank installed on 1st floor. The brine tank CANNOT be installed below the bottom of the unit. The drain and brine lines should NOT be installed with tubing that can collapse. This will cause the unit to malfunction.

Caution: Do NOT connect drain line tubing from control valve to overflow fitting/tubing on brine tank.



PEERLESS FM/FM-M Automatic Water Softener						
Flow Meter Regeneration	Service Pipe	Service Flow Rate	Backwash Rate	Tank Dimensions Inches		Electric Required
Model Number	Size Inches	Gallons Per Minute	Gallons Per Minute	Softener Dimensions	Brine Tank Dimensions	60 Hz
20 FM/FM-M	3/4	6.0	2.0	8" X 40"	18" X 33"	120VAC
30 FM/FM-M	3/4	8.3	3.0	9" X 48"	18" X 33"	120VAC
45 FM/FM-M	3/4	8.3	3.0	10" X 54"	18" X 33"	120VAC
60 FM/FM-M	3/4	12.0	4.0	12" X 52"	18" X 40"	120VAC