

HRS MANIFOLD KIT, 1/4" HOSE BARB (P/N 7001112)

TOOLS (not provided):

- Mounting Hardware
- Drill with Bits
- Tape Measure
- Hose Cutter or Knife
- 1/4" ID Beverage Hose
- Level
- Hose Clamps
- Two Gallon Bucket
- Fresh 6% unscented liquid Chlorine bleach

PARTS INCLUDED:

- 1 - Manifold - assembled (P/N 0013287)
- 1 - Instruction Sheet (P/N 1011370)
- 1 - Installation Checklist (P/N 1011419)
- 5 - Adapter, 1/4" Hose Barb (PN 2080165)
- 5 - Plug (P/N 2080163)

General

If you experience any problems with these instructions, or if any parts are damaged or missing, contact Antunes Technical Service at +1-877-392-7854 (toll free).

The Hardness Reduction Manifold provides a convenient way to connect two HRS systems to water-using equipment. It should be installed upstream of any beverage or steam equipment that would be connected to a HRS system.



Do not use this system with water that is microbiologically unsafe or of unknown quality without adequate disinfection installed before or after the

Equipment Setup

When installing the system, pay attention to the following guidelines:

- Do not install above electrical equipment.
- Allow space below for access to hose connections and shut-off valves.

Plumbing

NOTE: This system is designed to be used on tap water not to exceed 100° F (38° C) or 100 psig (690 kPa). The Hardness Reduction Manifold Kit must be connected to the COLD water line. Do not connect the Hardness Reduction Manifold Kit to the hot water line.

This Manifold Kit has the following connections:

- Inlet - 1/2" ID Hose Barbs
- Outlet - 1/4" ID Hose Barbs / 3/8" Plugs

When making a plumbing connection to the Manifold, use a hose clamp on the beverage hose (Figure 1). Remember to tighten or crimp the clamp fully.

If soldered plumbing is used, do not apply heat to or near the Manifold. Union (o-ring seal) connections are recommended for ease of installation and future servicing.



This equipment must be installed to comply with the basic plumbing code of the Building Officials and Code Administrators, Inc. (BOCA) and the Food Service Sanitation Manual of the Food and Drug Administration (FDA).



Water pressure must not exceed 100 psig. To reduce water pressure, install a water pressure regulator and set the water pressure to below 100 psig.

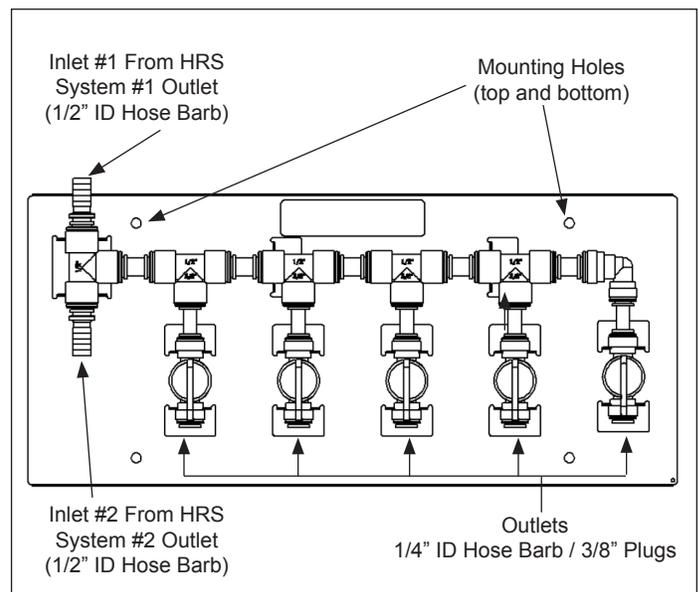


Figure 1. Hardness Reduction Manifold Kit

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Inlet Water Plumbing

The plumbing leading to the Manifold Kit must be flushed clear of all debris before connecting to the inlet connection. Hold a bucket at the inlet water line and slowly open the inlet water valve. Allow the pipe to flush until all debris is removed.

Mounting the System

Before mounting the Manifold, consider the following:

- The Manifold must be mounted with sufficient access to the shutoff valves and water connections.
- The Manifold must be mounted with hardware capable of supporting 5 lbs. of weight.
- The manifold can be mounted with the valve outlets facing either UP or DOWN; however the preferred position is valve outlets down (Figure 2). When mounted with the valve outlets DOWN, the inlet is on the left.
- Mount the Manifold before attaching beverage hose connections.

Attaching to the Inlet

The Inlet connections use 1/2" ID hose barbs. Attach the outlet from each HRS System to the inlet tee fitting. Refer to Figure 2.

Attaching to the Outlets

The kit comes with 1/4" ID Hose Barb Adapters. An adapter must be installed in each valve outlet before the system can be hooked-up. Refer to Figure 2.

1. To install an adapter into the valve outlet, push the adapter fully into the valve body.
2. To remove an adapter, push the collet on the valve body squarely against the face of the valve body. With the collet pushed in place, pull the adapter from the valve body.
3. Attach the 1/4" ID beverage hose from each valve to the inlet of each piece of equipment served by the manifold. Use the proper clamp (not included) for the hose selected.
4. Label hoses and valves as needed to identify the equipment connections.

The outlet valve is open when the valve handle is in line with the valve body. The outlet valve is closed when the valve handle is across the valve body.

Plugs are also provided for unused outlet valves, if desired. Plugs are installed and removed the same way as the adapters.

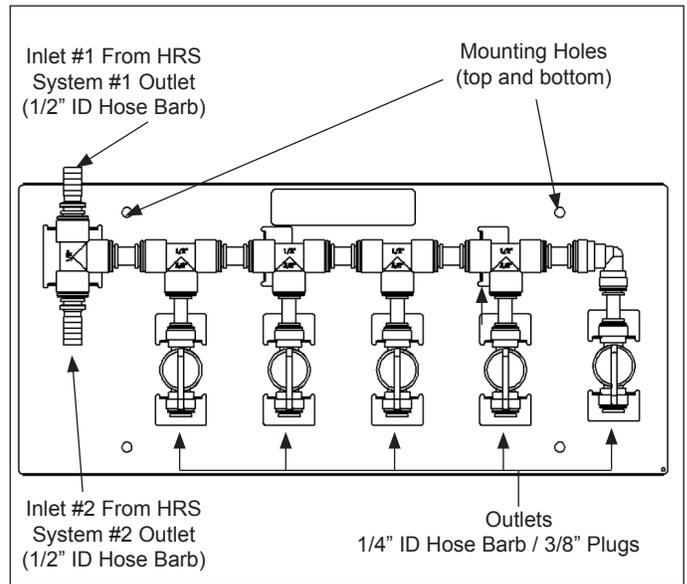


Figure 2. Installing the Outlet Connectors

Sanitizing the System and Lines

CAUTION

DO NOT connect the Inlet water to the Outlet port.

The plumbing must be sanitized to eliminate possible contamination that may have occurred during the installation process. Liquid Chlorine bleach (regular bleach, unscented 6% sodium hypochlorite) can be used to sanitize the plumbing. The amount of bleach to use depends on the equipment installed and the amount of plumbing downstream of the Manifold. Generally, 10 drops (0.5 ml) of bleach is sufficient to sanitize the associated plumbing.

CAUTION

Make sure to follow any handling or safety instructions supplied with the bleach.

NOTE: When sanitizing the Manifold plumbing, make sure the down stream equipment is not installed or is removed from the beverage hoses before sanitizing.

1. Direct the water line from the outlets of the Manifold to a drain.
2. Pour the liquid chlorine bleach into the inlet hoses.
3. Attach the inlet hoses to the inlet of the Manifold.
4. Slowly turn on the water supply and pressurize the system. Allow water to flow out of the hoses until the odor of bleach is present.
5. Turn off the water supply and let the system stand without water flow for at least 15 minutes to allow the bleach to sanitize the pipes.
6. After 15 minutes without water flow, turn on the water supply and flush until the presence of bleach is gone.
7. Shut off the water supply, depressurize the system, and reconnect the beverage hoses to the down stream equipment.

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