

Halsey Taylor®

Owners Manual

Contour™ Series Water Coolers Refrigerated Fountains with Back Panel



Figure 1 – HRFSER



Figure 2 – HRFER



Figure 3 – HRFSR

| Figure | Model | Description |
|-----------|--------|--|
| 1 | HRFSER | Contour™ Series - Dual Installation |
| 2 | HRFER | Contour™ Series - Extended Reach |
| 3 | HRFSR | Contour™ Series - Standard Reach |
| Not Shown | HRFESR | Contour™ Series - Dual Reversed Installation |

INSTALLER

- ⚠ CAUTION:** Review these instructions before beginning installation. Be sure that installation conforms to all plumbing, electrical and other applicable codes.
- ⚠ WARNING:** When installation is complete, ensure these instructions are left in the plastic bag provided inside the installed unit for future reference.
- ⚠ WARNING:** Service to be performed by authorized service personnel only.

NOTE: It is common practice to ground electrical hardware such as telephones, computers and other devices to available water lines. This can, however, cause electrical feedback in the plumbing circuit, which results in an “electrolysis” effect occurring in the fountain. This may result in water which has a metallic taste to it or has a noticeable increase in the metallic content of the water.

When inspecting plumbing circuit, remember the line may be grounded some distance from the installation, and may occur outside the building or area in which the unit is being installed.

This condition can be avoided (in most cases) by using recommended materials during installation. Any drain fittings provided by the installer should be made of **plastic** which will electronically isolate the fountain from the remainder of the building's plumbing circuits.

Patent zurn-elkay.com/patents

- ⚠ WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov
- ⚠ ADVERTENCIA:** Cáncer y daño reproductivo - www.P65Warnings.ca.gov
- ⚠ AVERTISSEMENT:** Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

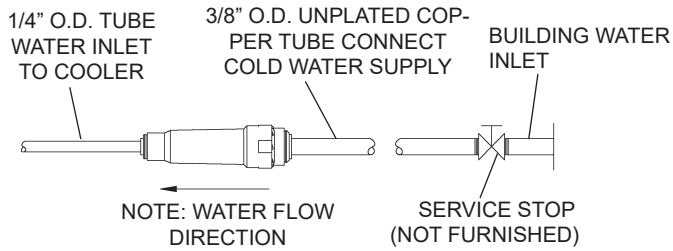


Figure 4 – Water Supply Connections

Installation Package

The components for installation are packed in three separate boxes, regardless of the type of unit being installed. The boxes contain the following:

- Box No. 1: Wall Frame(s)
- Box No. 2: Remote Chiller, SJ8
- Box No. 3: Fountain(s), Arm(s) and Panels

Additional materials, as noted in the Parts List, are also shipped in these boxes.

| Parts List | | | Number Required | | | | See Fig. |
|------------|--------------|-----------------------------------|-----------------|-------|---------|--------|------------|
| Item | Part No. | Description | HRFER | HRFSR | HRFSESR | HRFESR | |
| 1 | LK464 | Drain | 1 | 1 | 2 | 2 | 18 |
| 2 | 1000002027 | Kit - Retaining Nut (5 Pack) | 1 | 1 | 2 | 2 | 17 |
| 3 | 45336C | Strainer & Ferrule Assy | 1 | 1 | 2 | 2 | 18 |
| 4 | 98533C | Kit - Bubbler/Nipple/Gasket Assy | 1 | 1 | 2 | 2 | 18 |
| 5 | 45662C | Push Button | 1 | 1 | 2 | 2 | 17 |
| 6 | 45663C | Push Button Sleeve | 1 | 1 | 2 | 2 | 17 |
| 7 | 50986C | Regulator Holder | 1 | 1 | 2 | 2 | 17 |
| 8 | 56369C | Edge Trim - 2FT | 1 | 1 | 2 | 2 | 18 |
| 9 | 61313C | Regulator | 1 | 1 | 2 | 2 | 17 |
| 10 | 75672C | Cap screw | 1 | 1 | 2 | 2 | 17 |
| 11 | 112627543890 | Screw - #10-24 X .50" PHTC | 7 | 5 | 12 | 12 | 18 |
| 12 | 55996C | Strainer (Supplied with Chiller) | 1 | 1 | 1 | 1 | 4, 15, 19 |
| 13 | 28782C | Fountain Arm-Short | - | 1 | 1 | 1 | 18 |
| | 28783C | Fountain Arm-Extended | 1 | - | 1 | 1 | 18 |
| 14 | 55000661 | Bottom Cover Plate-Short | - | 1 | 1 | 1 | 18 |
| | 55000665 | Bottom Cover Plate-Extended | 1 | - | 1 | 1 | 18 |
| 15 | 26839C | Back Panel HRF-SER | - | - | 1 | - | 12, 13, 18 |
| | 27028C | Back Panel HRF-ESR | - | - | - | 1 | 18 |
| | 26837C | Back Panel HRF-ER | 1 | - | - | - | 12, 13, 18 |
| | 26835C | Back Panel HRF-SR | - | 1 | - | - | 12, 13, 18 |
| 16 | 1000001926 | Kit - Hex Nut (4 Pack) | 3 | 3 | 6 | 6 | 17 |
| 17 | 56092C | Poly Tubing - 1/4 (Cut To Length) | 1 | 1 | 1 | 1 | 18 |
| 18 | 28823C | Bracket-Regulator Mounting | 1 | 1 | 2 | 2 | 17 |
| 19 | 27026C | Lower Panel HRF-SER/ESR | - | - | 1 | 1 | 14, 18 |
| | 26833C | Lower Panel HRF-ER/SR | 1 | 1 | - | - | 14, 18 |
| 20 | 1000002162 | Kit - Union-1/4" (3 Pack) | 1 | 1 | 1 | 1 | 19 |
| 21 | 1000001994 | Kit - Tee-1/4" (3 Pack) | 1 | 1 | 1 | 1 | 15 |

Models HRFSER & HRFESR

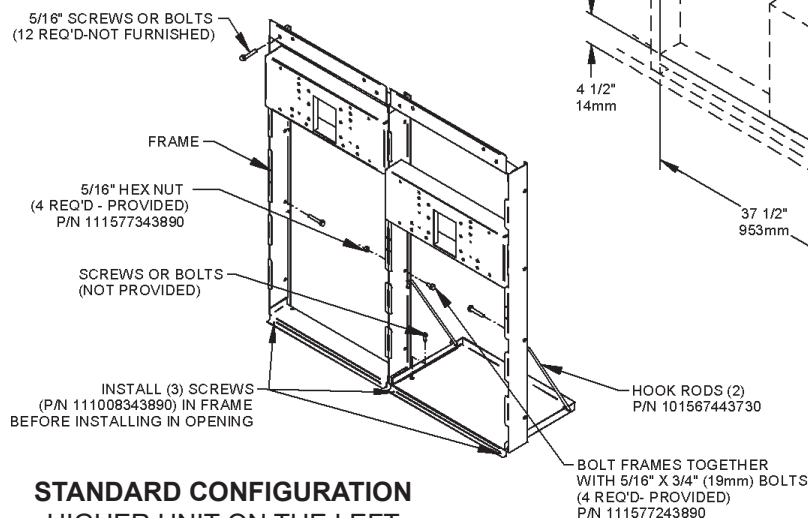


Figure 5 – HRFSEQRQ Rough-In

1. **Cut a rectangular wall opening** 37-1/2" (953 mm) W x 37-3/4" (959 mm) H and 4-1/2" (114 mm) above the floor line (see Figure 6). The dimensions are required to obtain proper rim and bubbler heights for compliance with ANSI standard A117.1.
2. **Reinforce the wall opening** on all sides to adequately support the water fountain. This reinforcement must support up to 150 lbs. static load and provide a means for securing the frame assembly in place.
NOTE: Building construction must allow for adequate air flow on both sides, top and back of chiller. A minimum of 4" (102 mm) on both sides and top is required. See chiller installation for additional instructions.
3. **Install plumbing and electrical rough-ins.** A junction box for a (3) wire, 10 amp branch circuit is provided on the inside of the chiller. (Standard 120 Volts, 60 Hz, and single phase.)
4. **Remove frames and related hardware** from packaging. Release the two shelf rods by cutting cable ties. Attach the two frames together through the upright supports with (4) 5/16" x 3/4" (19 mm) long bolts and nuts (provided). Tighten securely.

**MAKE SURE FRAME CONFIGURATION
MATCHES THE COOLER TO BE INSTALLED**

**REVERSED CONFIGURATION:
HIGHER UNIT ON THE RIGHT**



**STANDARD CONFIGURATION
HIGHER UNIT ON THE LEFT**

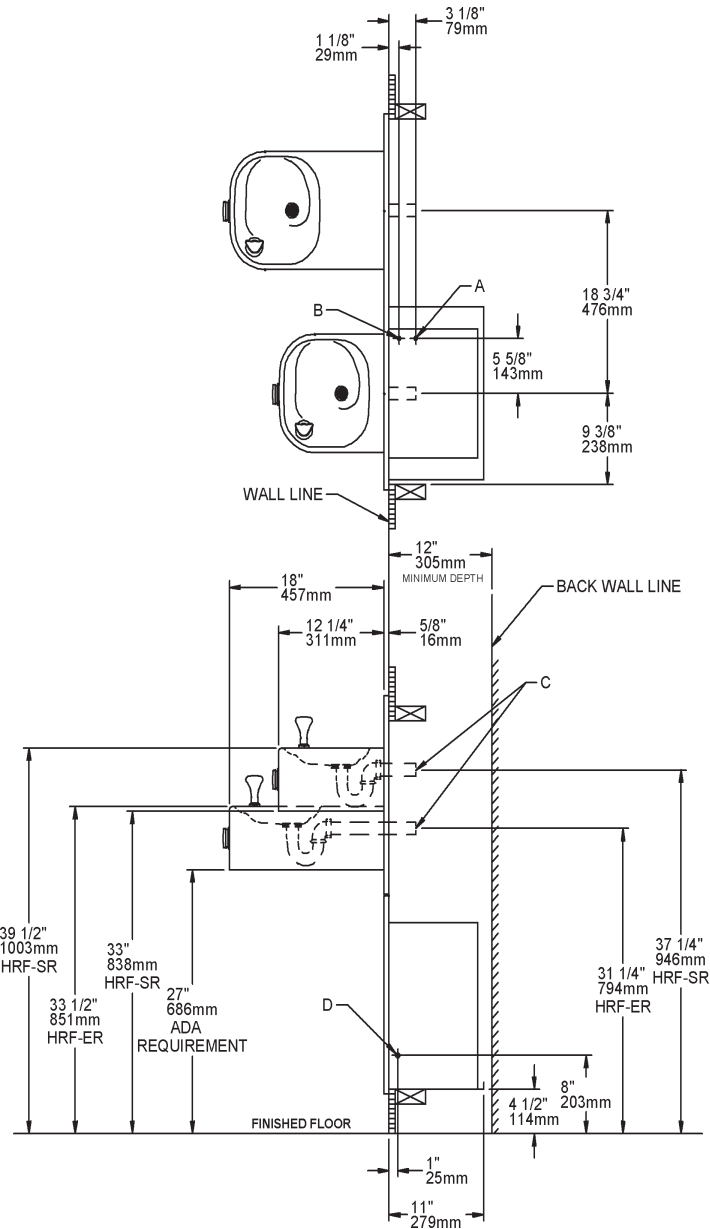
Figure 6 – Rough-In Assembly
Dual-Station Mounting Frames

5. **Install the frame assembly squarely in wall** opening with frame upright support edges flush with the finished wall face. Secure the frame to the wall through holes with (12) 5/16" bolts or screws (not provided). Tighten securely.

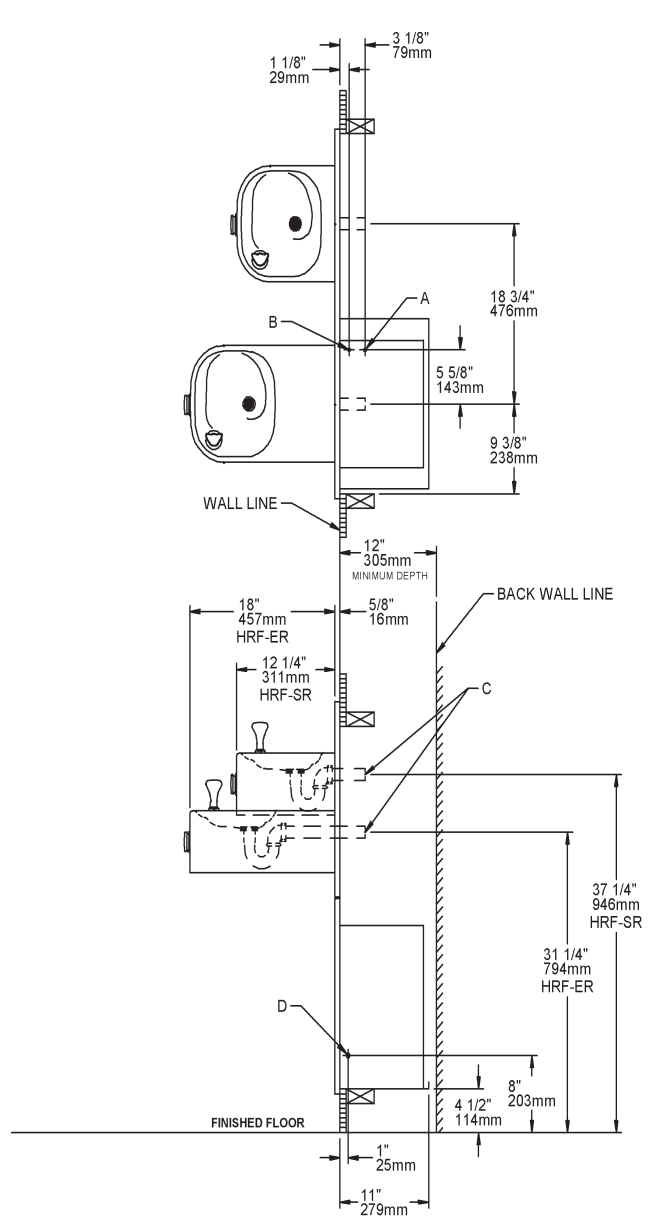
NOTE: Be sure that frame is squared in location. Do not use less than required screw quantity and size.

6. **Attach the chiller shelf support rods** to the right side of the frame uprights at the second set of holes counting from the bottom and to the shelf at the (2) side holes. Line up the other shelf holes with the frame bottom holes and fasten the assembly to the wall opening using appropriately sized screws or bolts and nuts (not provided).

MODEL HRFESR



MODEL HRFSESR



Legend

- A = 1/4" O.D. Tube - Water Outlet Connection
- B = 3/8" O.D. Tube - Water Inlet Connection
- C = 1-1/4" O.D. Waste Tube - *Not provided*
- D = Electrical Inlet on Chiller

Figure 7 - HRFSESR & HRFESR Rough-In Dimensions

Models HRFER – HRFSR



Figure 8 – HRFER/HRFSR Rough-In

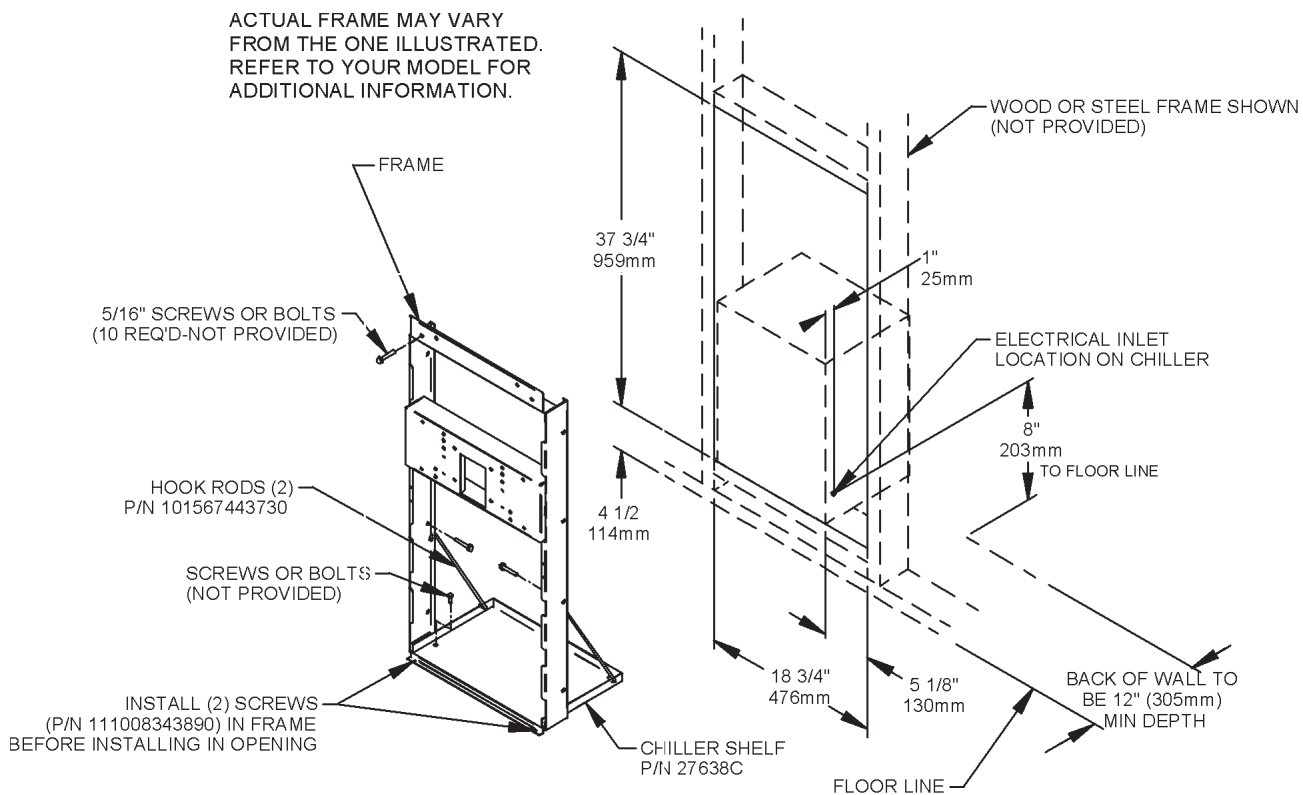
1. **Cut a rectangular wall opening** 18-3/4" (475 mm) W x 37-3/4" (959 mm) H and 4-1/2" (114 mm) above the floor line (see Figure 9). The dimensions are required to obtain proper rim and bubbler heights for compliance with ANSI standard A117.1.

2. **Reinforce the wall opening** on all sides to adequately support the water fountain. This reinforcement must support up to 150 lbs. static load and provide a means for securing the frame assembly in place.

NOTE: Building construction must allow for adequate air flow on both sides, top and back of chiller. A minimum of 4" (102 mm) on both sides and top is required. See chiller installation for additional instructions.

3. **Install plumbing and electrical rough-ins.** A junction box for a (3) wire, 10 amp branch circuit is provided on the inside of the chiller. (Standard 120 Volts, 60 Hz, and single phase.)

4. **Remove frame and related hardware** from packaging. Release the two shelf rods by cutting cable ties.

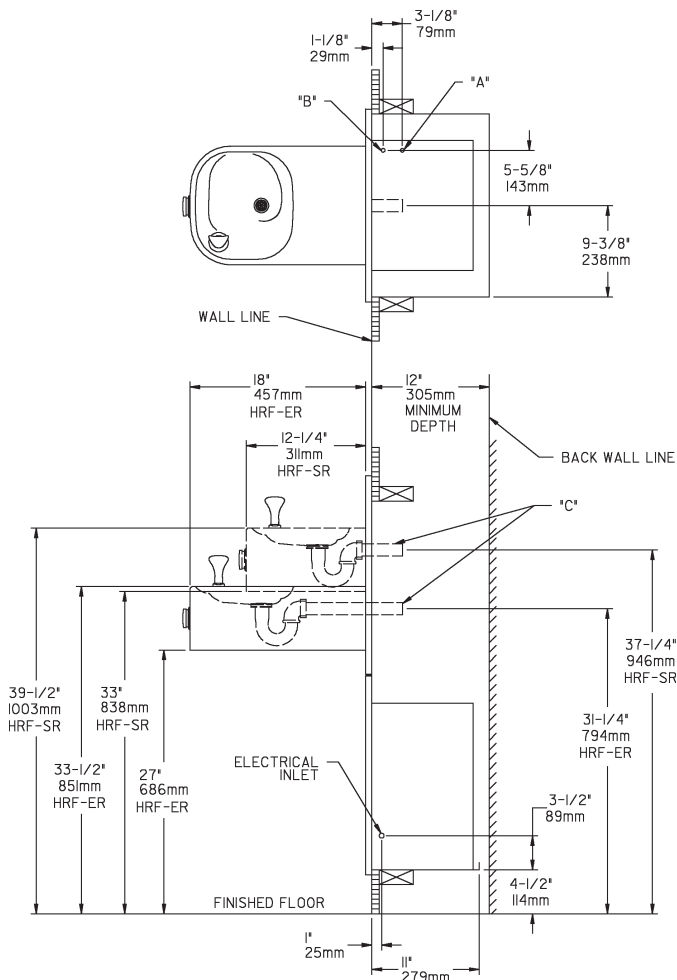


**Figure 9 – Rough-In Assembly
Single-Station Mounting Frames**

5. **Install the frame squarely in wall** opening with frame upright edges flush with the finished wall surface. Place shelf inside frame and line up the (2) holes on each. Insert loose ends of rods into holes on sides of shelf panel. Using appropriately sized screws or bolts (not provided), fasten the shelf and frame to the bottom of wall opening. Secure the frame sides and top to the wall using (10) 5/16" bolts or screws (not provided).

NOTE: Be sure that frame is squared in location. Do not use less than the required screw quantity and size.

MODELS HRFER/HRFSR



Legend

A = 1/4" O.D. Tube - Water Outlet Connection

B = 3/8" O.D. Tube - Water Inlet Connection

C = 1-1/4" O.D. Waste Tube - *Not provided*

Figure 10 – HRFER/HRFSR Rough-In Dimensions

REQUIRED TOOLS AND MATERIALS

These tables show special tools and/or additional materials (not provided) which are necessary to complete installation of these units:

Special Tools

| Item | Description | Quantity |
|------|-------------|----------|
| | NONE | |

Additional Materials

| Item | Description | Quantity |
|------|----------------------------|----------|
| 1 | Unplated copper inlet pipe | |
| 2 | Service Stop | |

HRFER/HRFSR/HRFSESR/HRFESR INSTALLATION

1. Assemble and place frame in wall as shown on preceding pages.
2. **Install chiller:** Remove front panel of chiller. **Remove and discard cardboard inner pack from between compressor and side panel.** Slide chiller onto the shelf and position it to the left within the guides on the shelf.

NOTE: Building construction must allow for adequate airflow on both sides, top and back of chiller. A minimum of 4" (102mm) on both sides and top is required. See chiller installation for additional instructions.



Figure 11 – Chiller Installation

3. Make water supply connections. Inlet port is marked on the chiller (1/4" O.D. copper tube). Bend the copper tube (provided) at an appropriate length from the chiller to opening in frame. Install the in-line strainer (provided with chiller) by pushing it in until it reaches a positive stop, approximately 3/4" (19mm) on the marked chiller inlet port. Attach an unplated and deburred copper water inlet line and a service stop (not provided) to the in-line strainer. Turn on the water supply and flush the line thoroughly.
4. **Hang the upper panel on the mounting frame hanger:** Align holes in the panel with the holes in the mounting frame. Be sure that panel is engaged with hanger at top of frame before releasing it.

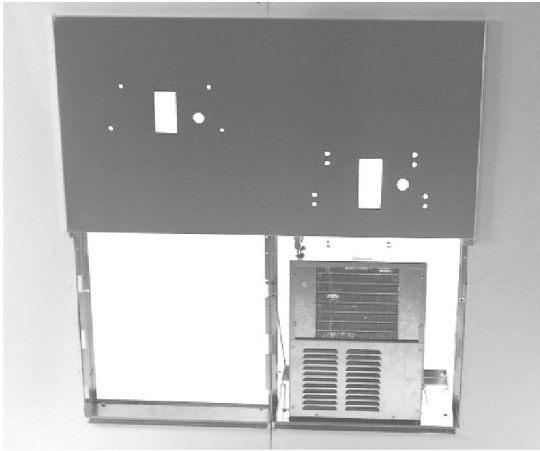


Figure 12 – HRFSER Upper Panel Installation

5. Install fountain: Remove access cover plate on underside of fountains and **SAVE** the screws. Mount the fountains to the upper panel and frame with (4) 5/16" x 3/4" (19mm) long bolts and nuts provided. Tighten securely.

Note: With HRFSER and HRFESR models, the standard reach fountain must be mounted at the upper position on panel.

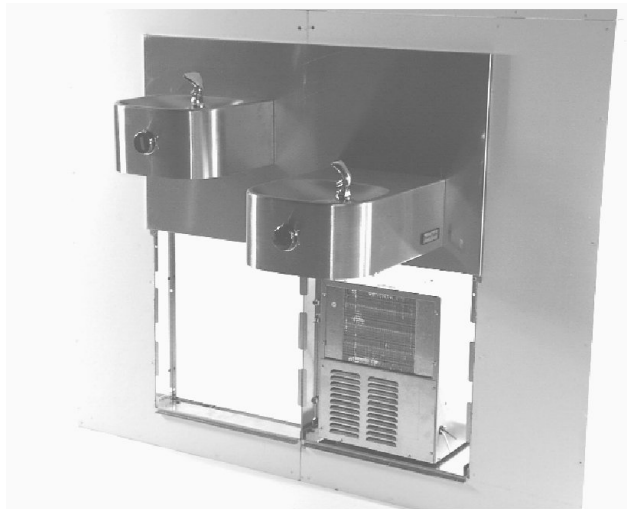


Figure 13 – HRFSER Fountain Installation



Figure 14 – HRFSER Lower Panel Installation

6. **Remove elbow from end of p-trap** and attach it to drain tube. Re-attach elbow to p-trap and cut waste tube to required length using plumbing hardware and trap as a guide.
7. **Make connection between remote chiller outlet tube and fountain(s).** Outlet port is marked on the chiller (1/4" O.D. copper tube). Install a 1/4" union/tee (provided) on the marked chiller outlet port. Insert the 1/4" poly tubing coming from the fountain(s) into the union/tee. Turn on water supply and check for leaks.



CAUTION: DO NOT SOLDER tubes while inserted into the strainer as damage to o-rings may result.

8. **These products are designed to operate on 20-105 PSI supply line pressure.** If inlet pressure is above 105 PSI, a pressure regulator must be installed in the supply line.



CAUTION: Any damage caused by connecting these products to a supply line with pressure lower than 20 PSI or higher than 105 PSI IS NOT covered under warranty.

9. **Make electrical connections to the chiller.** See chiller instructions.
10. **Check stream height from bubbler.** Stream height is factory set at 35-40 PSI. If supply pressure varies greatly from this, adjust the screw on regulator item 9 by using a small screwdriver through the small hole in the push button item 5 (See Fig.17). Clockwise adjustment will raise stream height and counterclockwise movement will lower stream height. For best adjustment, stream height should be approximately 1-1/2" (38mm) above the bubbler guard. (See Figure 16).
11. **Mount lower panel.** Loosen the two (2) #10-24 x 5/8" (16mm) screws at frame bottom lip. Slide upper tongue of lower panel under lower edge of already installed upper panel. Tighten previously loosened screws securely.
12. **Replace bottom access panel** to fountain basin using screws provided. Tighten securely.

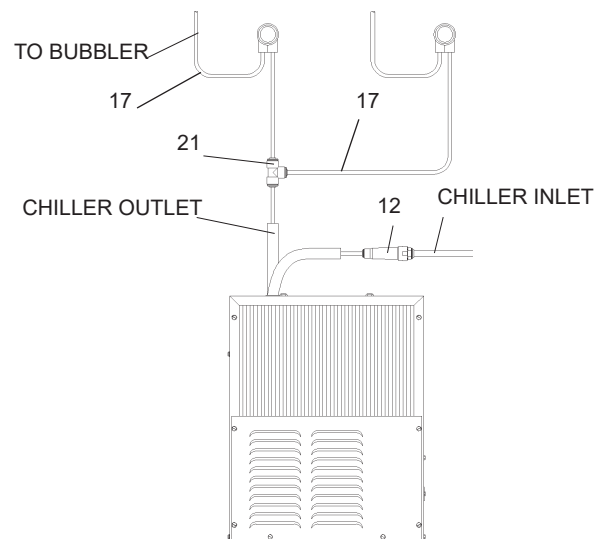


Figure 15 – HRFSER/HRFESR Tube Routing

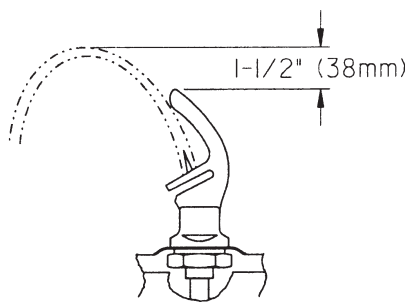


Figure 16 – Stream Height

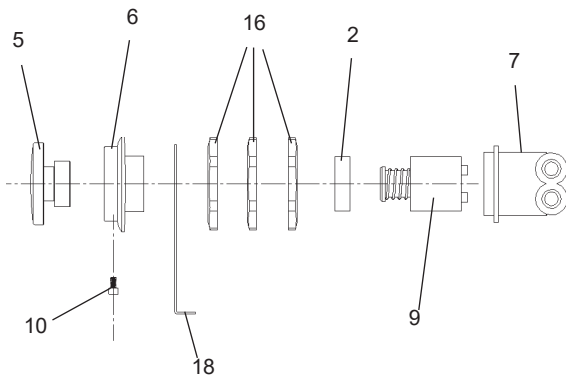


Figure 17 – Push Button Assembly

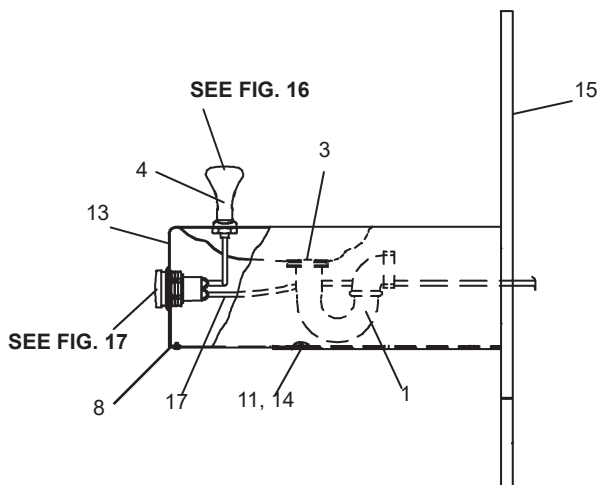


Figure 18 – Fountain Assembly - Side View

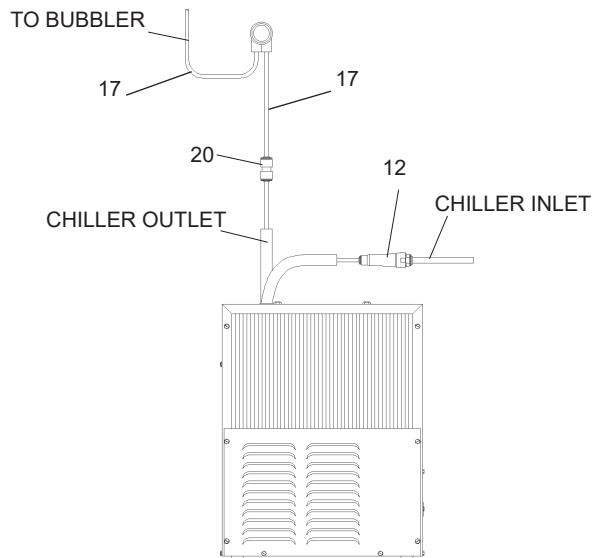


Figure 19 – HRFER/HRFSR Tube Routing

TROUBLESHOOTING & MAINTENANCE

Orifice Assembly: Mineral deposits on orifice can cause water flow to spurt or not regulate. Mineral deposits may be removed from the orifice by poking with a small round file not over 1/8" diameter, or using a small diameter wire.

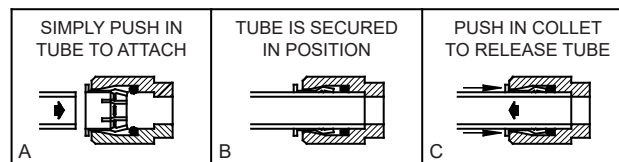


CAUTION: DO NOT file or cut orifice material.

Stream Regulator: If orifice is clean, regulate flow as in Step 10 of the installation instructions. If replacement is necessary, see parts list for correct regulator part number.

Actuation of Quick Connect Water Fittings: Cooler is provided with lead-free connectors which utilize an o-ring water seal. To remove tubing from the fitting, relieve water pressure, push in on the gray collar while pulling on the tubing. (See Figure 20) To insert tubing, push tube straight into fitting until it reaches a positive stop (approximately 3/4").

OPERATION OF QUICK CONNECT FITTINGS



PUSHING TUBE IN BEFORE PULLING IT OUT HELPS TO RELEASE TUBE

Figure 20 – Quick Connect Fittings

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