

Halsey Taylor®

Owners Manual

OVL™ Fountains with Dual-Stream Bubbler™
and HydroBoost® Bottle Filler



HTHB-OVLEBP-I



HTHBWF-OVLEBP-I

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

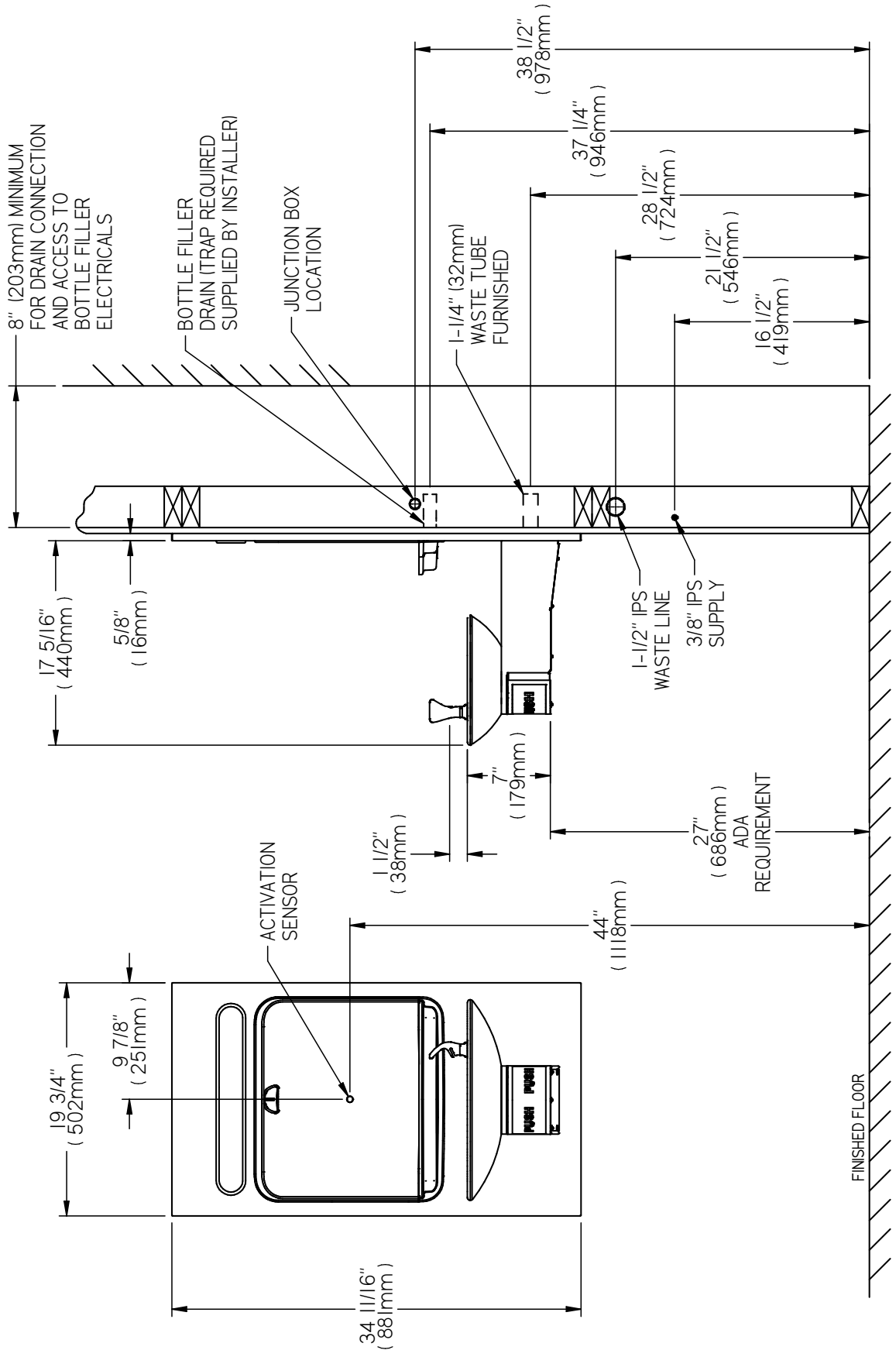


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Models HTHB-OVLEBP-I / HTHBWF-OVLEBP-I



REDUCE HEIGHT BY 3 INCHES FOR INSTALLATION OF CHILDREN'S ADA FOUNTAIN

Figure 1 - Rough-in Dimensions

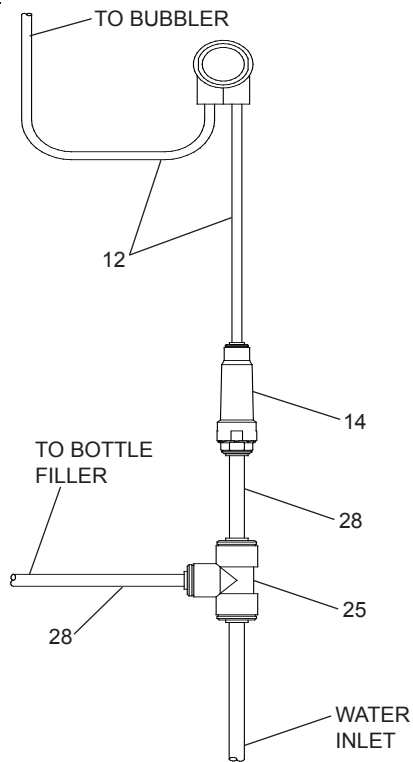


Figure 2 - HTHB-OVLEBP-I Tube Routing

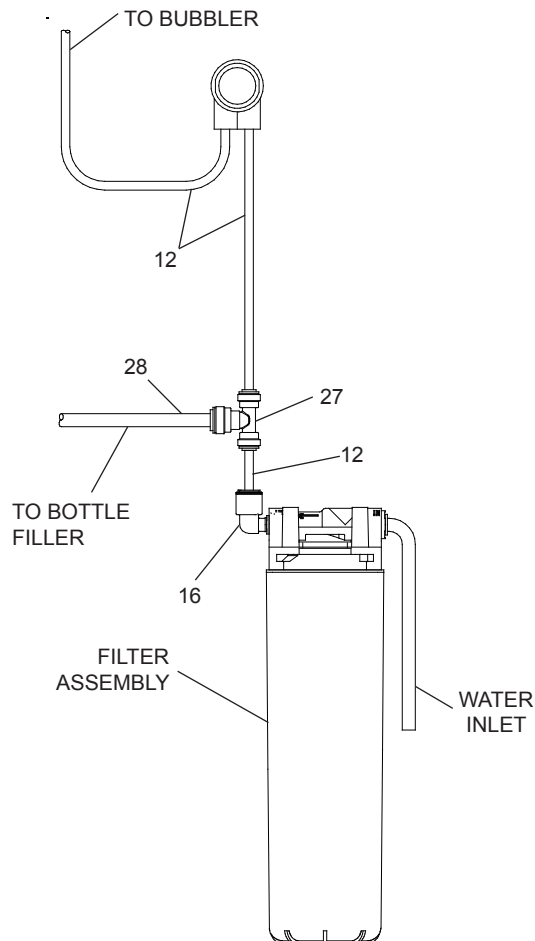


Figure 3 - HTHBWF-OVLEBP-I Tube Routing

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 Not Included		
Item	Description	Quantity
1	Unplated copper inlet pipe	1
2	Service Stop/Shut-off Valve	1
3	90° 1-1/4" Drain Line	1
4	1-1/4" Tee Drain Line	1

1. **Make water supply connections** (Fig 13). Install a shut-off valve and union connection to building water supply (valve and union not provided). Turn on water supply and flush the line thoroughly.

Caution: DO NOT SOLDER tubes inserted into the strainer or filter head as damage to the o-rings may result.

2. **Install mounting frame** (instructions supplied with mounting frame).
3. **(For HTHB-OVLEBP-I)** Install 3/8" tee, poly tubing and strainer per (Fig 2).
4. **(For HTHBWF-OVLEBP-I)** **Access** to the interior of the unit is necessary for filter mounting and changing. Filter mounting location is open to installer's discretion. Recommended location to be within 18" of service stop (not supplied).
Install the filter head to the bracket then install filter bracket to appropriate surface near fountain. Next install a 1/4" elbow to filter head outlet.
- 4a. **Install** the supplied 4" poly tubing and armaflex to the previously installed elbow. Connect supplied 1/4" x 1/4" x 3/8" tee to the 4" poly tubing. With the back panel standing close to the frame, connect 3/8" poly tube coming from the bottle filler to the tee per (Fig. 3).

5. **Hang main panel** on mounting frame hanger. Make sure the power cord, reset switch wire & poly tube do not get pinched between the panel & mounting frame. Ensure the panel engages at the top. Align fountain holes with mounting frame holes.
6. **Remove protective coating** from main panel.
7. **Install** reset switch for bottle filler (Fig 5). Snap the switch into position after locating wires through slot. Wrap up the excess cord.

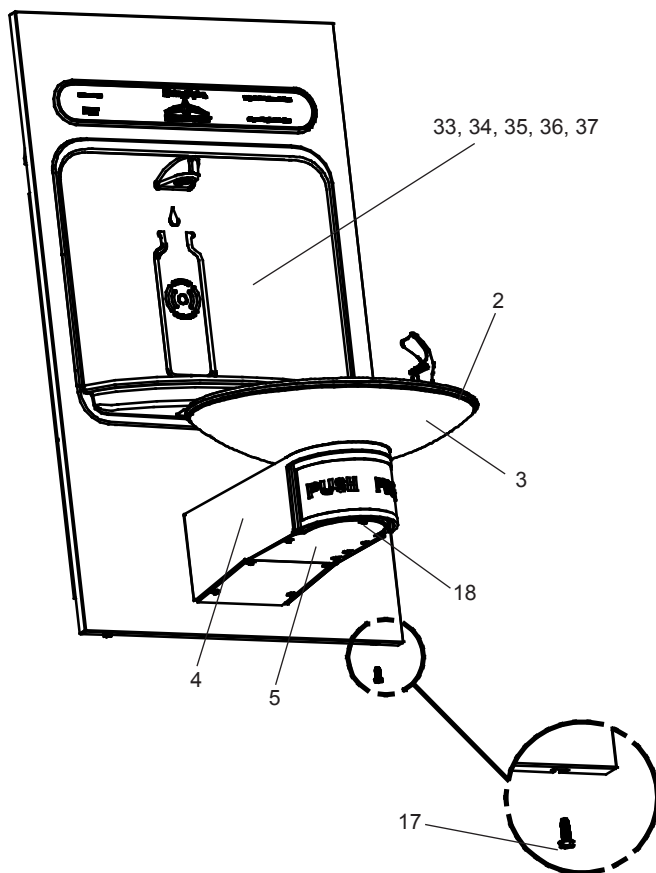


Figure 4 - Upper Panel Installation

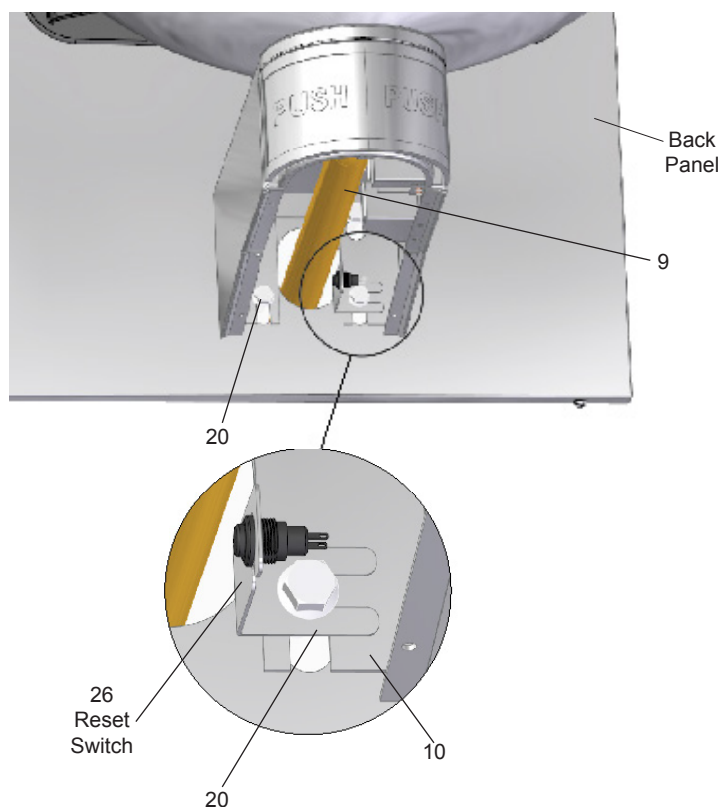


Figure 5 - Fountain Installation

8. **Install fountain** with (4) 5/16-18 HHMS (provided) (Fig 5). Connect the 1/4" water line from the fountain to the remaining opening on the tee (cut line to fit as needed).
9. **Attach waste tubes** (1-1/4" O.D.) to 1-1/4" O.D. slip trap. Trap on the bottle filler side must be 1-1/2" O.D. (provided by others).
10. **Make final water supply connections.**
11. **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.)
12. **Make electrical connections** to the bottle filler. The LCD Bottle counter should illuminate.
13. **Verify proper dispensing** from the bottle filler by placing a cup, hand or any opaque object in front of sensor area and verify water dispenses. **Note:** the first initial dispenses might have air in the line which may cause a sputter. This will be eliminated once all air is purged from the line. A steady stream of water assures all air is removed. The sensor has a 20 second maximum ON time. It may be necessary to step away from the beam a few times to purge all air. Check for leaks.
14. **Check stream height from bubbler.** Stream height is factory set for 35-40 PSI supply. If supply pressure varies greatly from this, remove items 6, 7, and 8) (push arm and the bottom and the top actuator plates - (Figure 8) by removing the screws holding assembly together and adjust the screw on the regulator (Item 19 - Figures 7 & 9). Clockwise adjustment will raise stream height and counterclockwise movement will lower stream height. For best adjustment, stream height should be approximately 6-1/2" (38mm) above the bubbler guard. Reassemble the pushbar (Fig 8).

15. **Install the cover plates.**

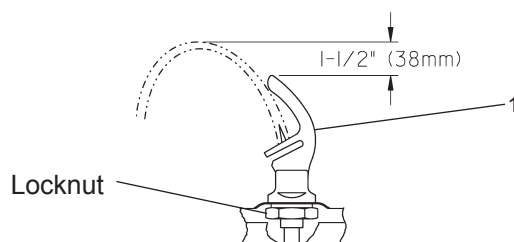


Figure 6 - Bubbler Detail

NOTE:

When installing replacement bubbler and pedestal (Fig 6), tighten locknut only to hold parts snug in position. **Do Not overtighten.**

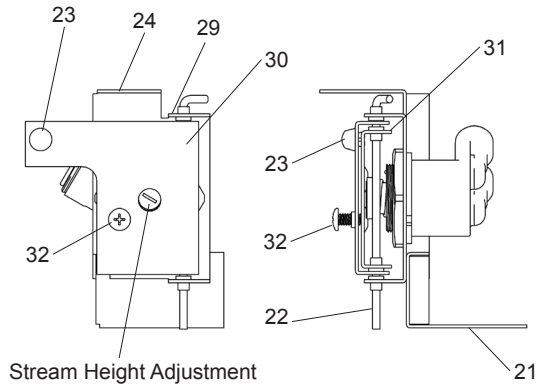


Figure 7
Regulator Mounting Mechanism

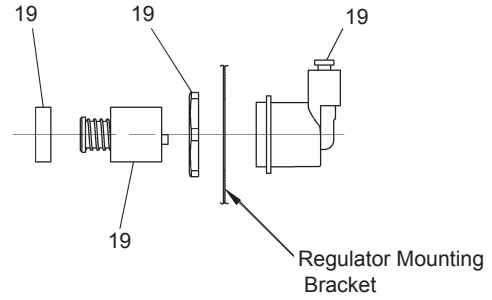


Figure 9
Regulator Assembly

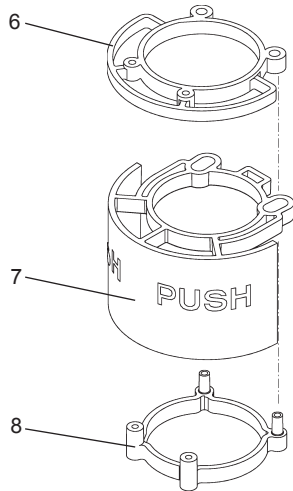


Figure 8 - Push Bar Mechanism

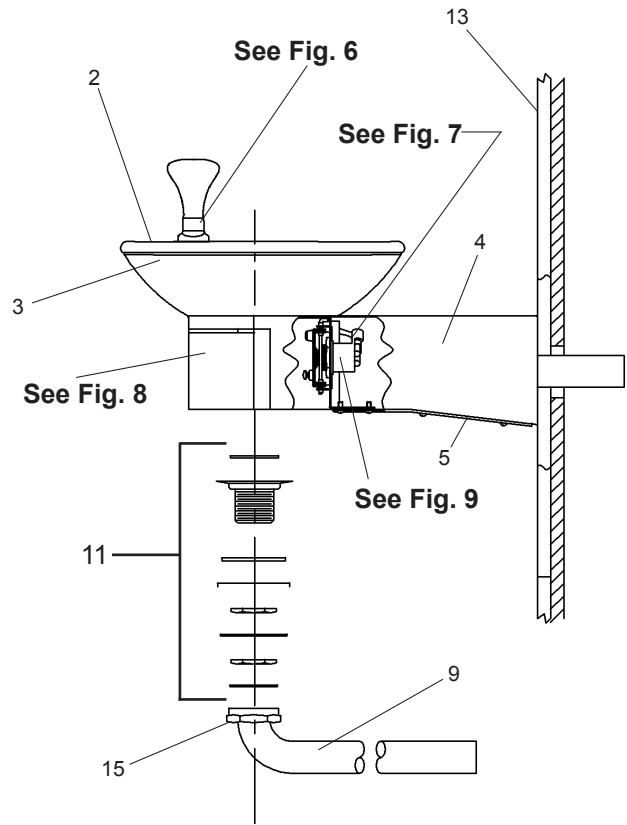


Figure 10 - Drain Assembly

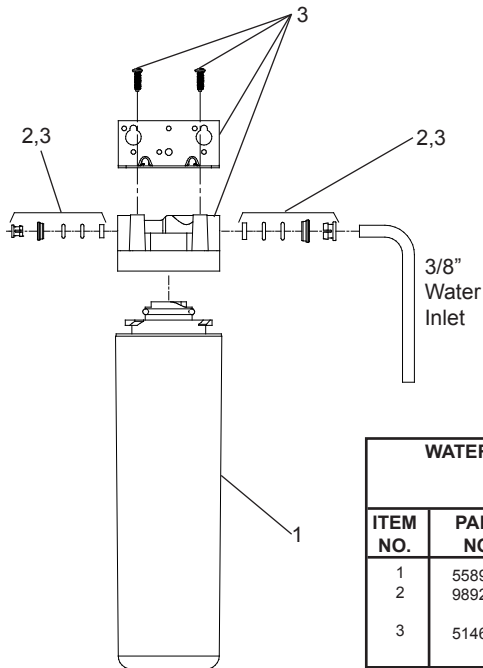


Figure 11

WATERSENTRY® PLUS FILTER PARTS LIST (See Fig. 11)		
ITEM NO.	PART NO.	DESCRIPTION
1	55898C	Filter Assy-3000 Gal.
2	98926C	Kit-Filter Head Fittings-includes John Guest Fittings
3	51469C	Assy-Filter & Brkt includes Fltr Head/Mtg Bkt/ John Guest Fittings/Screws

BF11 - BF12 PROGRAM

SETTING THE CONTROL BOARD

VERIFY CONTROL BOARD SOFTWARE

- 1) To verify the software program of the control board the unit will need to be shut down and restarted. The chiller (if present) does not need to be shut down and restarted.
- 2) Shut down the unit by unplugging the power cord from the wall outlet or switching off the circuit breaker to the unit.
- 3) Restart the unit by plugging the power cord back into the wall outlet or by switching on the circuit breaker to the unit.
- 4) Upon start up, the bottle count display will show the software designation of BF11 or BF12.

ACCESSING THE PROGRAMMING BUTTON

- 1) To access the program button, remove the bottom cover on fountain arm (Fig 5) by removing the bottom cover screws. Reset button is located on mounting bracket.

RESET THE FILTER MONITOR

- 1) Instructions apply to filtered units only.
- 2) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
 "RST FLTR" – Reset Filter Monitor
 "SETTINGS" – System Settings Sub Menu
 If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.
- 3) When the display changes to "RST FLTR", depress the button again. The display will change to show "FLTR =". Depress the button again and the display will show "FLTR =0"
- 4) The Green LED should be illuminated indicating that the visual filter monitor has been reset.

SETTING RANGE OF THE IR SENSOR WHERE APPLICABLE

- 1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
 "RST FLTR" – Reset Filter Status LED
 "SETTINGS" – System Settings Sub Menu
 If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.
- 2) When the display changes to "SETTINGS", depress the button again. The display will change to show
 "RNG SET" - Range set for IR sensor.
 "UNIT TYP" - Type of unit (REFRIG or NON-RFRG)
 "FLT SIZE" - Select filter capacity
 "RST BCNT" - Reset bottle count
- 3) When display shows "RNG SET" push program button once the display will show current value (can be 1 – 10) e.g. "RNG = 3".
- 4) Once display shows current value push the program button to scroll through value of 1 – 10. Select the desired range setting, "1" being closest to sensor and "10" being farthest away.
- 5) Once range is selected allow approximately 4 seconds to pass and then the display will go back to bottle counter and be in run mode.
- 6) Test bottle filler by placing bottle or hand in front of sensor to make sure water is dispensed.

SETTING UNIT TYPE

- 1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
 "RST FLTR" – Reset Filter Status LED
 "SETTINGS" – System Settings Sub Menu
 If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.
- 2) When the display changes to "SETTINGS", depress the button again.
 The display will change to show
 "RNG SET" - Range set for IR sensor.
 "UNIT TYP" - Type of unit (REFRIG or NON-RFRG)
 "FLT SIZE" - Select filter capacity
 "RST BCNT" - Reset bottle count

Continued from below:

- 3) When display shows "UNIT TYPE" push program button once the display will show current value. Can be REFRIG or NON-RFRG
- 4) Push button once to change value. Once value is selected the display will show the new value. (Can be REFRIG or NON-RFRG)
 "REFRIG" - stands for refrigerated product. In this setting the flow rate is estimated at 1.0 gallon per minute.
 "NON-RFRG" - stands for nonrefrigerated product. In this setting the flow rate is estimated at 1.5 gallons per minute. Both "REFRIG" and "NON-RFRG" simulate 1 bottle equal to 20 oz.
- 5) Allow approximately 4 seconds to pass and the display will return to bottle counter and be in run mode.

RESETTING BOTTLE COUNT

- 1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
 "RST FLTR" – Reset Filter Status LED
 "SETTINGS" – System Settings Sub Menu
 If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.
- 2) When the display changes to "SETTINGS", depress the button again.
 The display will change to show:
 "RNG SET" - Range set for IR sensor.
 "UNIT TYP" - Type of unit (REFRIG or NON-RFRG)
 "FLT SIZE" - Select filter capacity
 "RST BCNT" - Reset bottle count
 If the button is not pushed again the display will scroll through the four messages above for three cycles and return to run mode.
- 3) When display shows "RST BCNT" push program button once the display will show current value, e.g. "0033183".
- 4) Once display shows current value push the program button once more to reset back to 0. The display will show BTLCT = 0 for approximately 2 seconds and then return to run mode showing 00000000 bottles.
NOTE: Once the bottle count is reset to zero there is no way to return to the previous bottle count.
- 5) Testing the bottle counter:
 REFRIG units: Place bottle or hand in front of sensor for approximately 9 seconds to see bottle counter count 00000001,
 (This is based on filling a 20 oz. bottle).
 NON-RFRG units: Place bottle or hand in front of sensor for approximately 6 seconds to see bottle counter count 00000001,
 (This is based on filling a 20 oz bottle).

SETTING FILTER CAPACITY

- 1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:
 "RST FLTR" – Reset Filter Status LED
 "SETTINGS" – System Settings Sub Menu
 If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.
- 2) When the display changes to "SETTINGS", depress the button again.
 The display will change to show:
 "RNG SET" - Range set for IR sensor.
 "UNIT TYP" - Type of unit (REFRIG or NON-RFRG)
 "FLT SIZE" - Select filter capacity
 "RST BCNT" - Reset bottle count
 If the button is not pushed again the display will scroll through the four messages above for three cycles and return to run mode.
- 3) When display shows "FLT SIZE" push program button once. The display will show current value. Can be 3000GAL or 6000GAL.
- 4) Push program button again to display the desired "FLT SIZE".
- 5) Allow approximately 4 seconds to pass and the display will return to bottle counter and be in run mode.

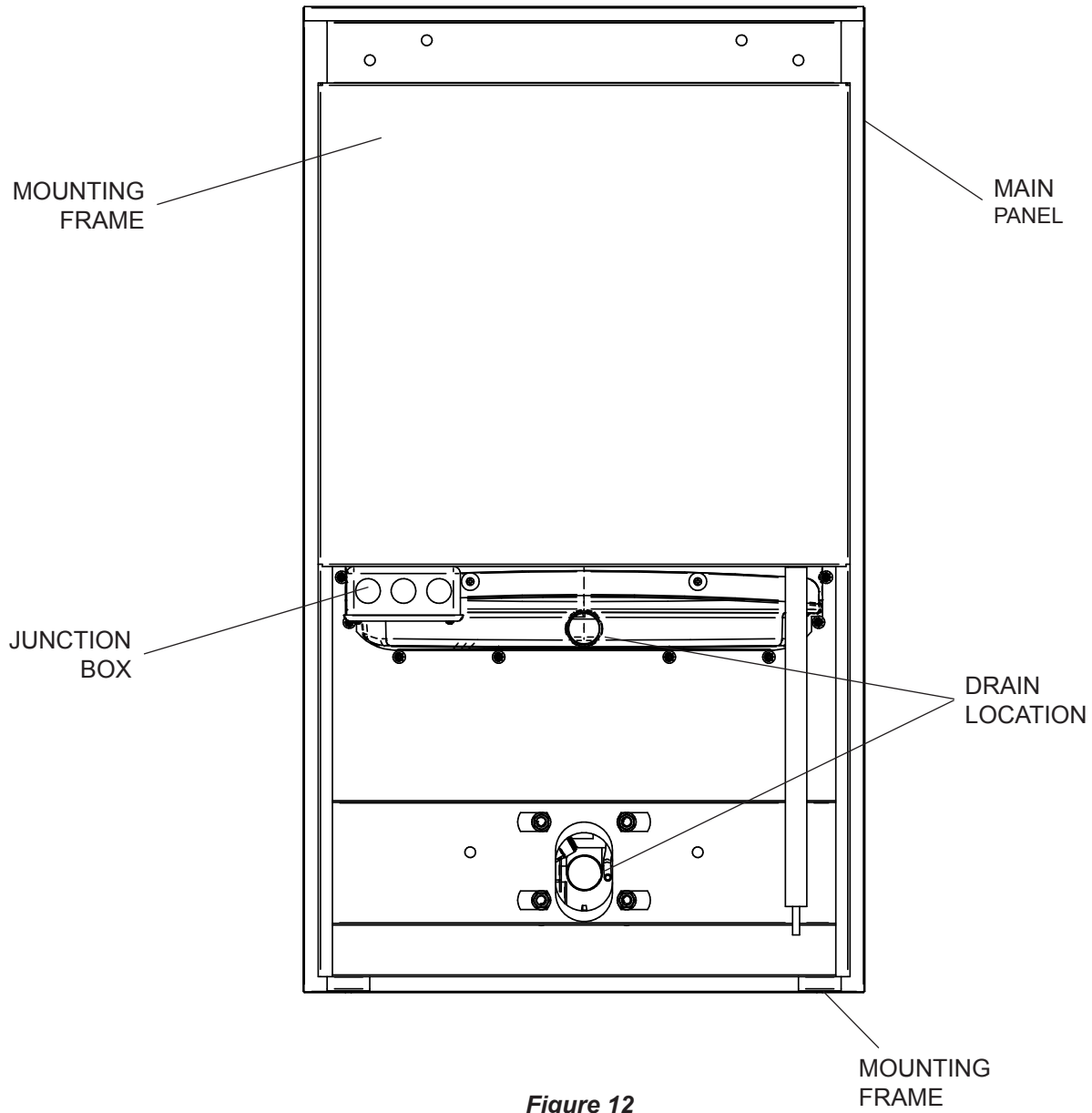


Figure 12

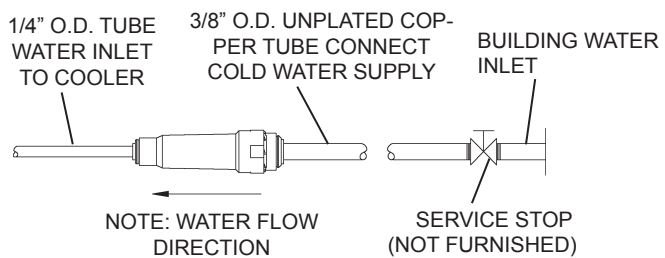
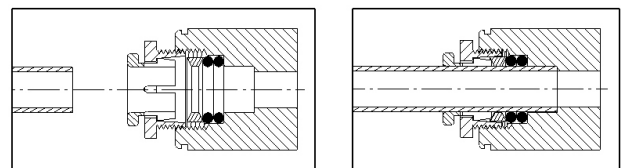


Figure 13 – Water Supply Connections



Note: Screw the locknut hand tight to seal

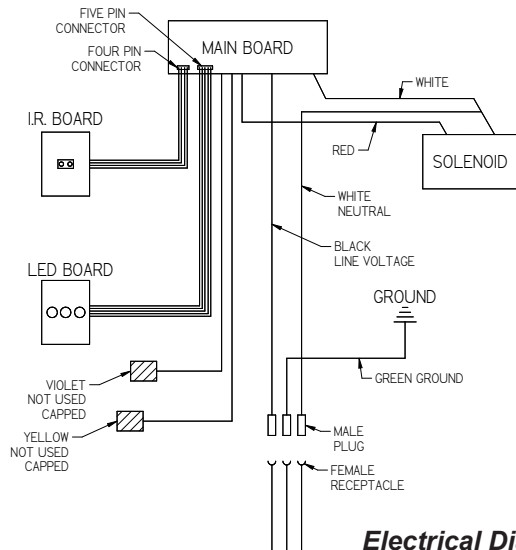
Figure 14

PARTS LIST

ITEM NO.	PART NO.	DESCRIPTION
1	51546C	Bubbler
2	27006C	Basin
3	27000C	Lower Shell
4	27002C	Fountain Arm (Long)
5	26988C	Bottom Cover (Long)
6	55840C	Top Plate Actuator
7	55836C	Push Arm Actuator
8	55839C	Bottom Plate Actuator
9	45683C	Drain Tube (Long)
10	0000001153	Reset Switch Bracket
11	1000002143	Kit - Drain Strainer/Gaskets/Nuts/Rings/Plug
12	56092C	Poly Tubing (Cut To Length)
13	1000001940	Back Panel
14	55996C	Strainer
15	161570808550	Slip Nut
16	000001772	Kit - 1/4 x 1/4 Elbow (3 Pack)
17	111008343890	Screw - #10-24 x .62 HHSM
18	112627543890	Screw - #10-24X .50 PHTC
19	98732C	Kit - Regulator/Holder/Nut
20	75560C	Screw - 5/16-18 x 1.00 HHMS
21	27008C	Reaction Bracket
22	70854C	Rod - Pivot
23	51667C	Bumper - Regulator Valve Assy
24	28328C	Regulator Mounting Bracket
25	70852C	Tee - 3/8
26	99003C	Reset Switch Assy
27	1000002062	Kit - Tee 1/4 x 1/4 x 3/8 (3 Pack)
28	56372C	Poly Tubing 3/8" (Cut To Length)
29	50198C	Snap Bushing
30	28327C	Arm - Regulator Activating
31	28326C	Arm - Regulator Adjustment
32	70856C	Screw - #10-24 x .38 PHMS

BOTTLE FILLER REPLACEMENT
PART KITS

ITEM NO.	PART NO.	DESCRIPTION
33	98543C	Kit - Electrical Package
34	98544C	Kit - EE Sensor
35	98545C	Kit - Solenoid Valve Replacement
36	98546C	Kit - Aerator Replacement
37	98549C	Kit - Hardware & Waterway Parts



Electrical Diagram

Installation Package

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

Box No. 1: Wall Frame(s)

Box No. 2: Fountain(s), Arm(s) and Panels

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

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 14 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 15) To insert tubing, push tube straight into fitting until it reaches a positive stop (approximately 3/4").

OPERATION OF QUICK CONNECT FITTINGS

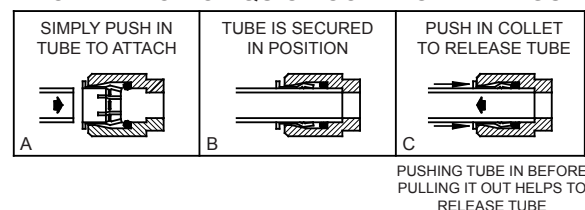


Figure 15 – Quick Connect Fittings

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