Halsey Taylor Owners Manual

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



HTHB-OVLSEBP-I



HTHBWF-OVLSEBP-I

HTHBOVLSEBPI

INSTALLER

⚠ CAUTION: Review these instructions before beginning installation. Be sure that installation conforms to all plumbing, electrical and other applicable codes.

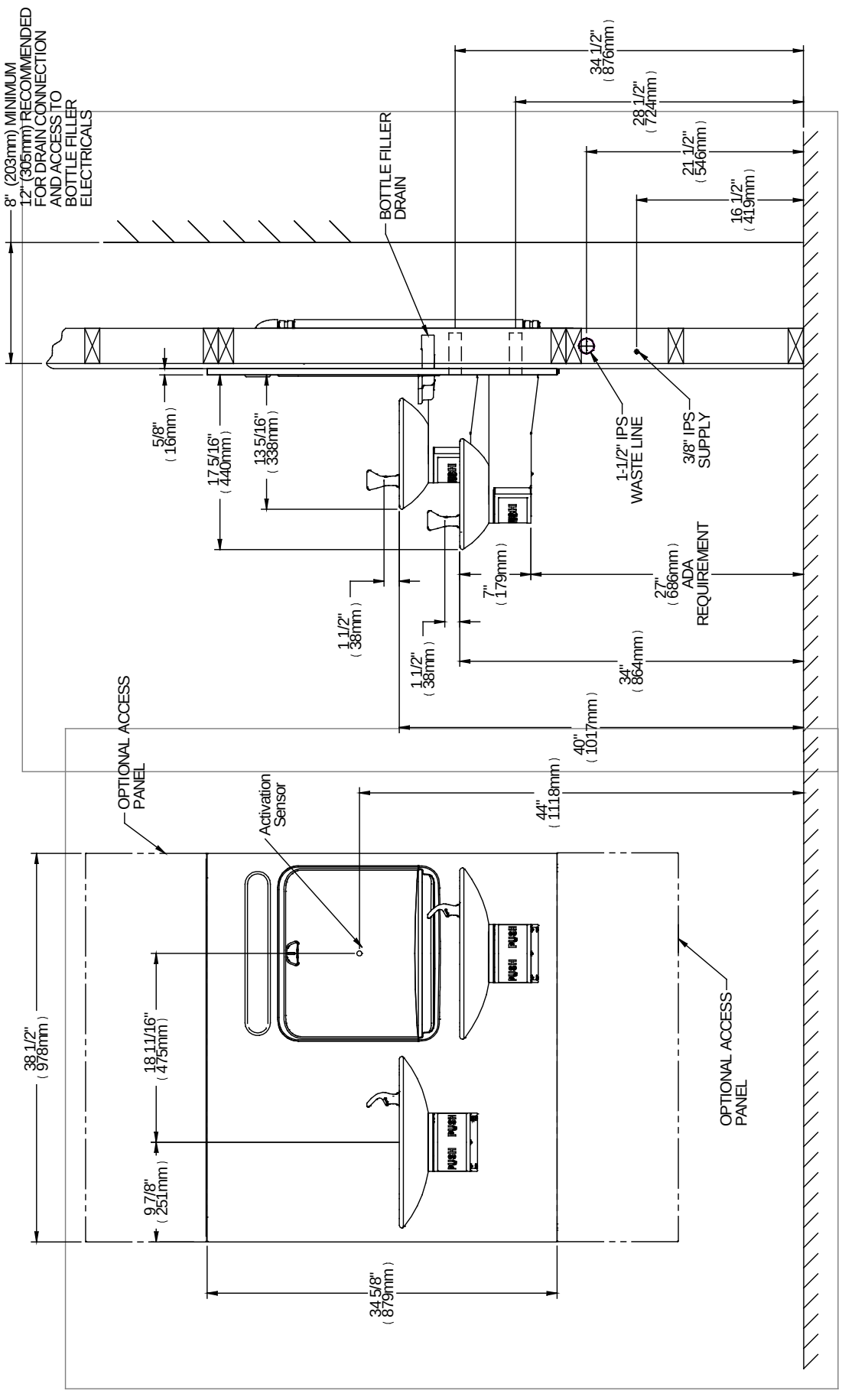
⚠ WARNING: When installation is complete, ensure these instructions are left in the plastic bag provided inside the installed unit for future reference.

⚠ 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.



LEGEND
A = 1/4" O.D. Tube - Water Outlet Connection
B = 3/8" O.D. Tube - Water Inlet Connection
C = 1-1/4" Waste Tube
D = ELECTRICAL INLET
****NEW INSTALLATIONS MUST USE GROUND FAULT CIRCUIT INTERRUPTER *GFCI)**

Fig. 1

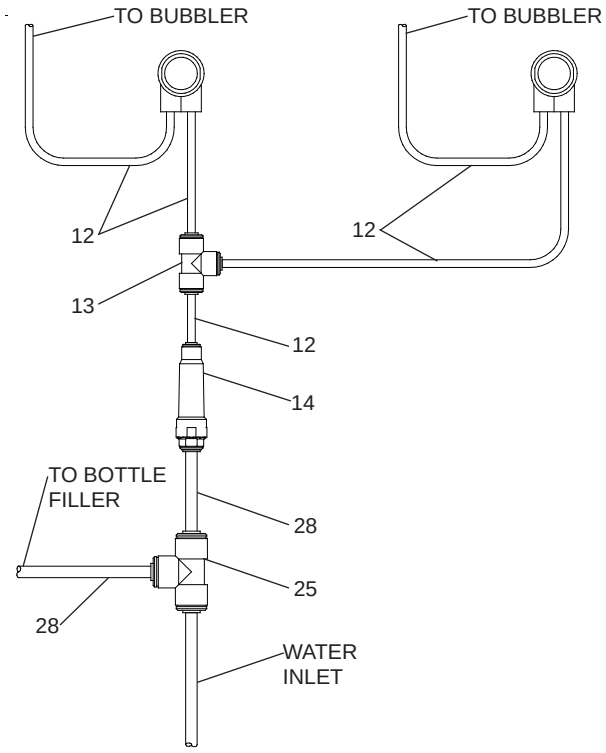


Figure 2 - HTHB-OVLSEBP-I Tube Routing

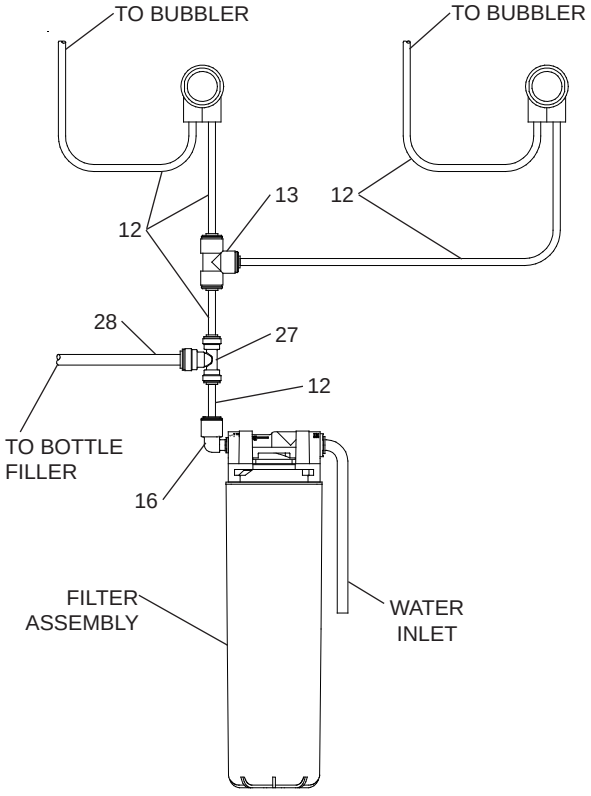


Figure 3 - HTHBWF-OVLSEBP-I Tube Routing

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 HTHBWF-HRSEBP-I)** Install the filter head to the bracket, then install filter bracket on mounting frame (Fig 12), plumb from the filter outlet using the ¼” elbow, poly tubing and ¼ x ¼ x ⅜” tee, install filter.

3a. **(For HTHB-HRSEBP-I)** Install 3/8” tee, poly tubing and strainer per (Fig 2).

4. **Install** ¼ x ¼ x ⅜ tee on building water supply tube. Install supplied 4” poly tubing and armaflex to the outlet of the previously installed tee. Connect supplied ¼ x ¼ x ¼ tee to the 4” poly tubing. With the back panel standing close to the frame, connect 3/8” poly tube to the bottle filler.

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** fountains with (8) 5/16-18 HHMS (provided) (Fig 5). Connect the ¼” water lines from each fountain to the remaining openings on the tee at the remote chiller (cut lines to fit as needed).

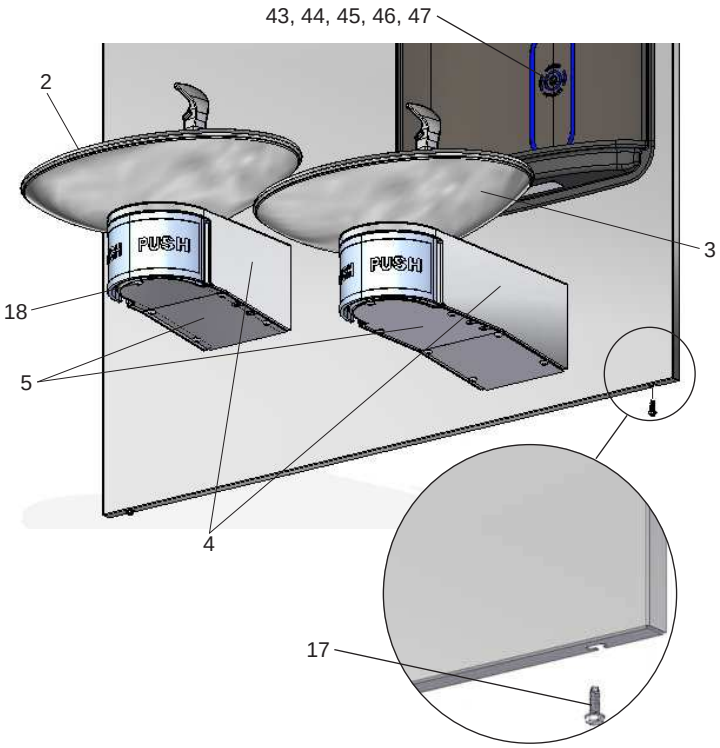


Figure 4 - Upper Panel Installation

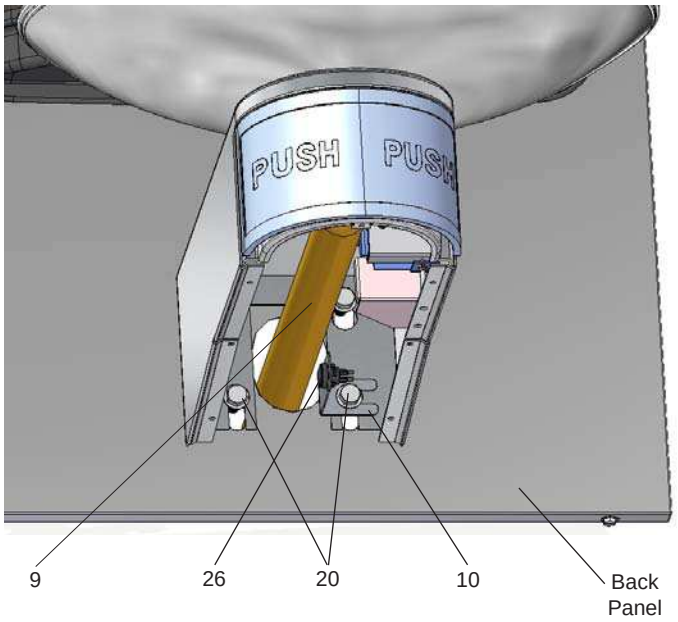


Figure 5 - Fountain Installation

8. **Install** reset switch and mating bracket on lower fountain (lower right bolt) for bottle filler (Fig 5). Connect the switch wire to the extension wire on the back of the bottle filler. Wrap up the excess cord.

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 PSIG supply line pressure. If inlet pressure is above 105 PSIG, 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 PSIG or higher than 105 PSIG IS NOT covered under warranty.)

12. **Make** electrical connections to the bottle filler and remote chiller. The LCD Bottle counter should illiminate.

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 maxi mum 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 at 35 PSI. If supply pressure varies greatly from this, remove push arm (Item 7 - Figure 8) and adjust the screw on the regulator (Item 19 - Figure 7). To remove push button, remove bottom plate (Item 8). Clockwise adjustment will raise stream height and counterclockwise movement will lower stream height. For best adjustment stream should hit basin approximately 6-1/2" from the bubbler. Reassemble the push bar (Fig 8).

15. **Install** the cover plates.

16. **Optional:** Mount optional panels. Install bracket per rough-in, slide tongue of panel under edge of already installed panel. Tighten screws.

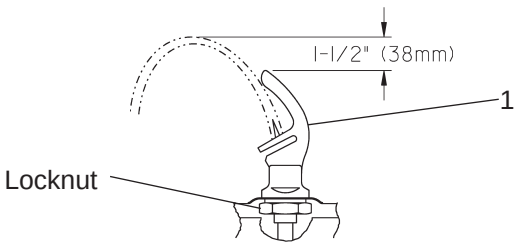


Figure 6 - Bubbler Detail

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

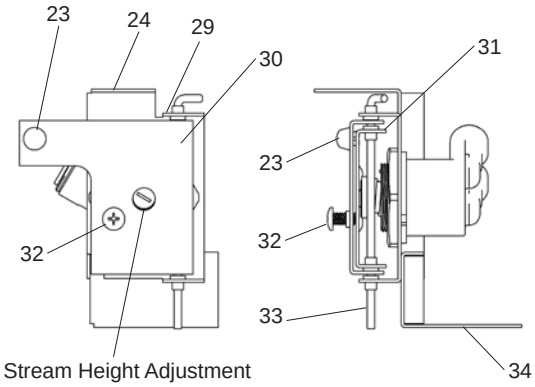


Figure 7
Regulator Mounting Mechanism

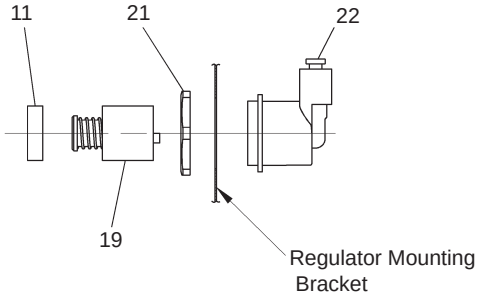


Figure 9
Regulator Assembly

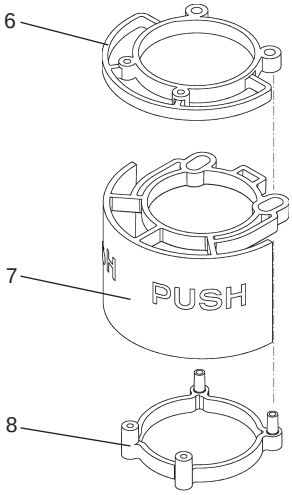


Figure 8 - Push Bar Mechanism

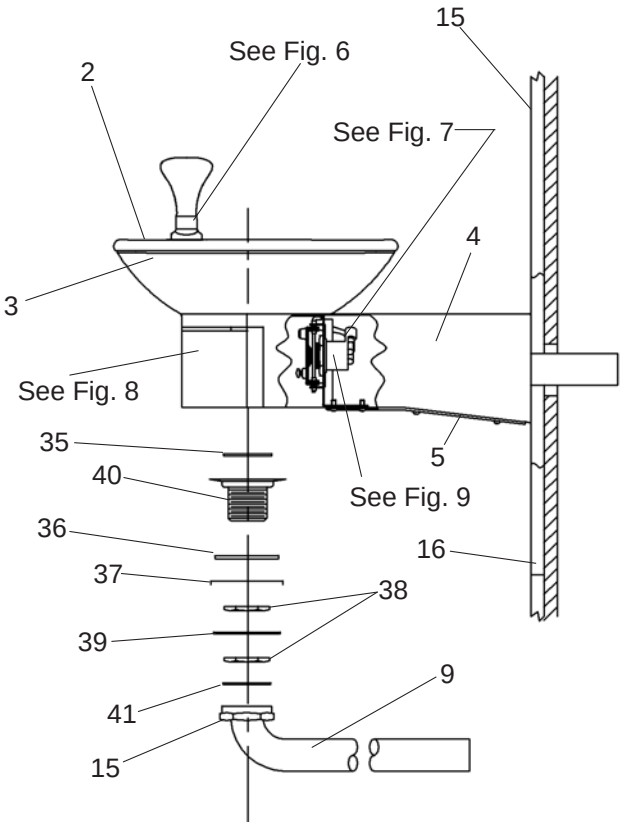


Figure 10 - Drain Assembly

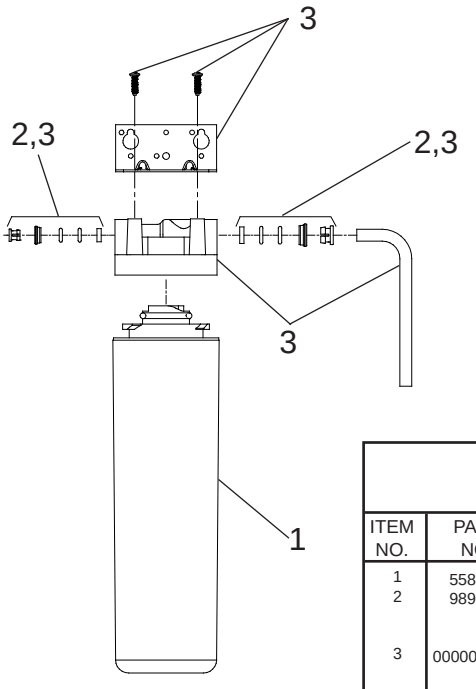


FIG. 11

FILTER PARTS LIST (See Fig. 11)			LISTA DE PIEZAS DEL FILTRO (Vea la Fig. 11)	LISTE DES PIÈCES DU FILTRE (Voir Fig. 11)
ITEM NO.	PART NO.	DESCRIPTION	DESCRIPCIÓN	DESCRIPTION
1	55898C	Filter Assy-3000 Gal.	Ensamblado del Filtro-3000 Galón	Ens. filtre-3000 Gallon
2	98926C	Kit-Filter Head Fittings, includes John Guest 3/8" elbow fitting	Kit Filtro cabeza guarniciones, incluye acoplador acodado de John Guest 3/8"	Accessoires de tête, en kit-filtre inclut John Guest raccord en coude 3/8 "
3	0000000929	Assy-Filter & Bracket includes Fltr Head/Mtg Bkt/John Guest Fittings/Screws	Montaje del filtro & soporte incluye filtro cabeza/soporte/John Guest guarniciones/tornillos de montaje	Assy-filtre & Support inclut filtre/montage Support/John Guest/vis à tête

BF11 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) The units lower panel must be open to access the power cord and wall outlet.
3) Shut down the unit by unplugging the power cord from the wall outlet.
4) Restart the unit by plugging the power cord back into the wall outlet.
5) Upon start up, the bottle count display will show the software designation of BF11.
6) Reference the BF11 instructions for setting the control board.

ACCESSING THE PROGRAMMING BUTTON

1) To access the program button, remove #10-24 screws, remove bottom cover on lower fountain arm (Fig 5). 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

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.
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.

Continued from below:

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 "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.
5) Testing the bottle counter:
   REFRIG units: Place bottle or hand in front of sensor for 9.4 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 6.25 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.

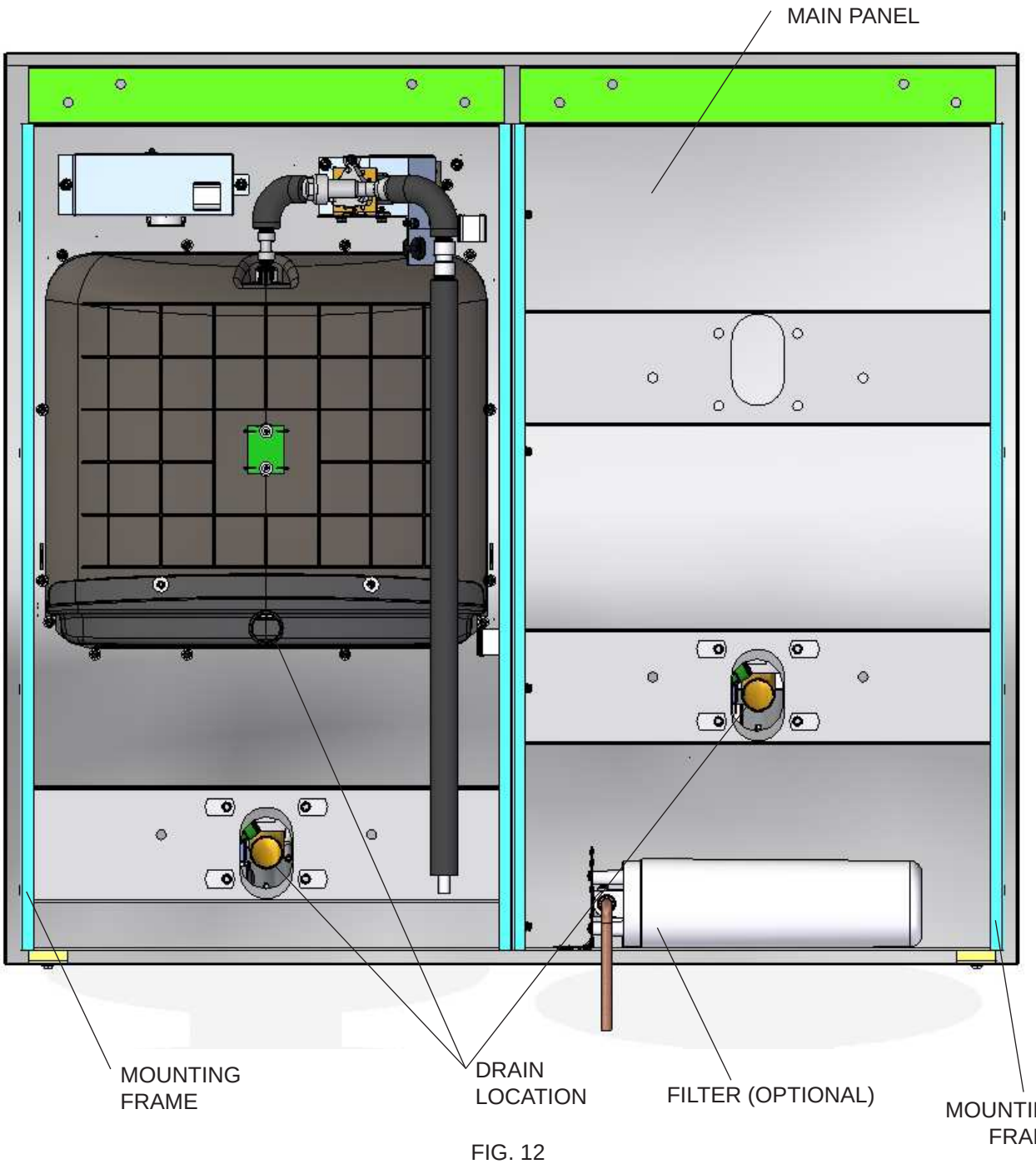


FIG. 12

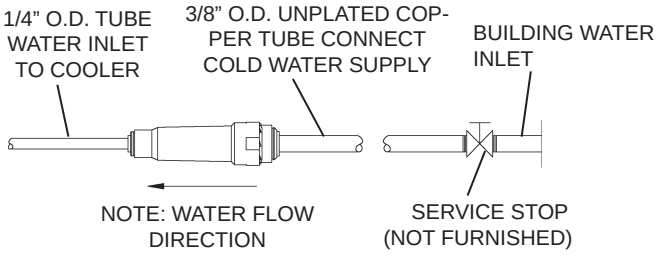
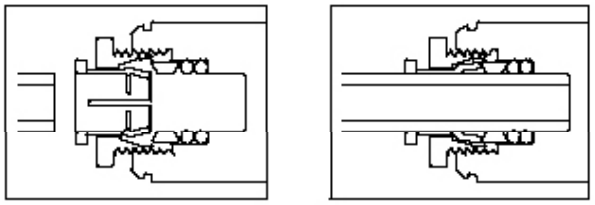


Figure 13 – Water Supply Connections



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)
	27004C	Fountain Arm (Short)
5	26988C	Bottom Cover (Long)
	26990C	Bottom Cover (Short)
6	55840C	Top Plate Actuator
7	55836C	Push Arm Actuator
8	55839C	Bottom Plate Actuator
9	45683C	Drain Tube (Long)
	45682C	Drain Tube (Short)
10	0000001153	Reset Switch Bracket
11	15005C	Retaining Nut
12	56092C	Poly Tubing (Cut To Length)
13	70682C	Tee - 1/4
14	55996C	Strainer (Provided with Chiller)
15	161570808550	Slip Nut
16	70817C	Fitting - Elbow 1/4 x 1/4
17	111008343890	Screw - #10-24 x .62 HHSM
18	112627543890	Screw-#10-24X.50 PHTC
19	61314C	Regulator
20	75560C	Screw - 5/16-18 x 1.00 HHMS
21	40045C	Hex Nut
22	50986C	Regulator Holder
23	51667C	Bumper - Regulator Valve Assy
24	28328C	Regulator Mounting Bracket
25	70852C	Tee - 3/8
26	36301C	Reset Switch
27	0000001144	Tee - 1/4 x 1/4 x 3/8
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
33	70854C	Rod - Pivot
34	27008C	Reaction Bracket
35	160270508640	Strainer Plate
36	101570540560	Drain Gasket
37	51575C	Packing Ring
38	110346220550	Drain Nut
39	101637451550	Friction Ring
40	161637308640	Drain Plug
41	100023340560	Waste Tube Gasket

BOTTLE FILLER REPLACEMENT PART KITS		
ITEM NO.	PART NO.	DESCRIPTION
43	98543C	Kit - Electrical Package
44	98544C	Kit - EE Sensor
45	98545C	Kit - Solenoid Valve Replacement
46	98546C	Kit - Aerator Replacement
47	98549C	Kit - Hardware & Waterway Parts

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

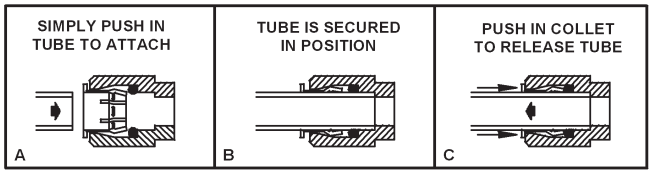


Figure 15 – Quick Connect Fittings

Halsey Taylor®

Satisfying Thirsts Since 1912

LIMITED PRODUCT WARRANTY*

FIRST YEAR - - The Manufacturer warrants every water cooler, packaged water chiller, fountain and accessory to be free from defects in material and workmanship under normal use for (1) year from date of installation or eighteen (18) months from date of shipment from the factory, whichever occurs first.

SECOND THROUGH FIFTH YEARS - The Manufacturer warrants the compressor and hermetically sealed refrigeration system, including cooling coils or tank assembly when part of the hermetically sealed refrigeration system, to be free from defects in material and workmanship under normal use for an additional four (4) years from the end of the one (1) year period described above. Packaged water chillers are not subject to the additional four (4) year warranty when used in chilled water commercial/industrial applications other than for potable water.

INSTALLATION AND OPERATION - The foregoing Limited Warranty applies only when the product is installed and operated in accordance with the Manufacturer's written instructions included with each unit. These products are designed to operate on 20 psi to 105 psi supply line pressure. Non-filtered Bi-level units require a minimum of 40 psi supply line pressure to ensure adequate stream height from each bubbler when activated simultaneously. Bi-level filtered models, regardless of supply line pressure, cannot provide adequate stream height from each bubbler when activated simultaneously. It does not apply to products which, on examination by the Manufacturer, or its agent, are found to have been subjected to accident, alteration, abuse, misuse, misapplications, corrosive type atmospheres, or abnormal use.

OWNER'S OBLIGATIONS - The owner has the obligation and responsibility to diagnose and/or make minor adjustments and to reimburse the authorized service center or the Manufacturer for any other repair not covered by the terms of this limited Warranty. Any appearance imperfections are to be noted at time of installation, and the installer or the supplier notified without delay. In the case of products located within the United States or Canada, the owner also has the obligation and responsibility to return the complete unit to the closest authorized service center or to the factory repair department. In the case of products located outside the United States or Canada, the owner is to return any part for which replacement is sought to the closest authorized service center or to the factory repair department.

MANUFACTURER'S OBLIGATIONS - When the product is located within the United States or Canada, the Manufacturer's obligation under this Limited Warranty is limited to the labor and parts to repair or replace any part which is expressly covered by this Limited Warranty at one of its authorized service centers or at its factory repair department. The Manufacturer's obligation also includes cost of outbound freight (but not express freight) of the part or parts from an authorized service center or the factory repair department, but only if the Manufacturer determines that the part or parts, and the purported defect or defects are covered by this Limited Warranty.

When the product is located outside the United States or Canada, the Manufacturer's obligation under this Limited Warranty is limited to providing a replacement part for any part expressly covered by this Limited Warranty which upon examination by the Manufacturer or his agent, is found to be defective, but does not include any obligation to provide labor or to pay labor costs incurred in connection with the replacement. The Manufacturer's obligations also includes cost of outbound freight (but not express freight) of the part or parts from the factory repair department to (but not beyond) the port in the United States from which the part or parts are shipped to their ultimate destination, but only if the Manufacturer determines that the part or parts, and the purported defect or defects, are covered by this Limited Warranty.

WHAT WARRANTY DOES NOT COVER - This Limited Warranty does not include payment for any field labor to provide for normal maintenance including adjustments such as water stream height, water temperature or electric eye sensitivity. The water system and regulating valve are not covered by this Limited Warranty if they become inoperative due to liming, sand or similar residue. This Limited Warranty is voided if repairs are made by an unauthorized party or the serial number data plate is removed or defaced. Normal deterioration of finish due to use and exposure is not covered by this Limited Warranty. The Manufacturer is not liable for repairs, whether cosmetic or structural, to walls where cooler and packaged water coolers are built into the wall. If inlet pressure is above 105 psi, a pressure regulator must be installed in the supply line. Any damage caused by reason of connecting this water cooler to supply line pressures lower than 20 psi or higher than 105 psi is not covered by this warranty.

PERSONS ENTITLED TO BENEFIT OF WARRANTY - This Limited Warranty is applicable only to (i) purchasers who purchase the product for resale in the ordinary course of business, and (ii) the first person who purchases the product other than resale.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES, EXPRESSED OR IMPLIED, ARISING BY LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. EXCEPT AS EXPRESSLY PROVIDED HEREIN, THE MANUFACTURER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, ARISING BY LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, TO ANY PERSON. THIS WARRANTY MAY NOT BE ALTERED, VARIED, OR EXTENDED, EXCEPT BY A WRITTEN INSTRUMENT EXECUTED BY THE MANUFACTURER. THE REMEDY OF REPAIR OR, WHERE APPLICABLE, REPLACEMENT AS PROVIDED UNDER THIS LIMITED WARRANTY IS EXCLUSIVE. IN NO EVENT SHALL THE MANUFACTURER BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES TO ANY PERSON, WHETHER OR NOT OCCASIONED BY NEGLIGENCE OF THE MANUFACTURER, INCLUDING WITHOUT LIMITATION DAMAGES FOR LOSS OF USE, COSTS OR SUBSTITUTION, PROPERTY DAMAGE, OR OTHER MONETARY LOSS.

This Limited Warranty gives specific legal rights and in some states of the United States there may be other rights which vary from state to state.

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