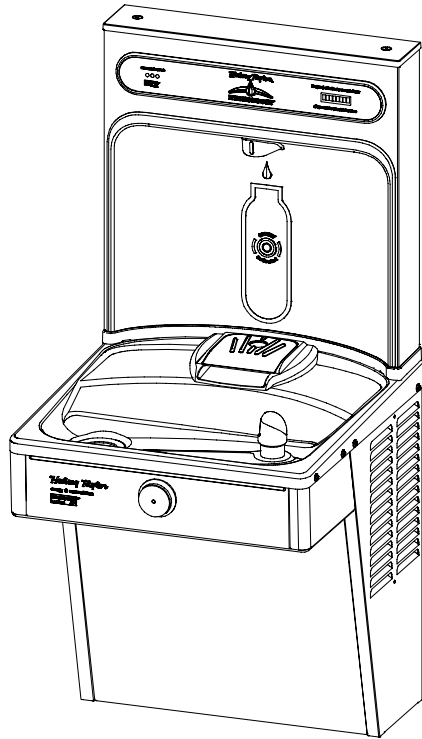


# Halsey Taylor®



## Installation/Care/Use Manual

### HTHB-HVRGRN Factory Prep Hydroboost Bottle Filling Station and Cooler



#### **IMPORTANT**

THIS IS AN INDOOR APPLICATION ONLY.  
ALL SERVICE TO BE PERFORMED BY AN  
AUTHORIZED SERVICE PERSON.

#### **TOOLS REQUIRED**

##### **BUT NOT PROVIDED:**

SAFETY GLASSES  
GLOVES  
ELECTRIC DRILL  
3/4" WRENCH OR CRECENT WRENCH  
5/16" NUT DRIVER  
UTILITY KNIFE  
TAPE MEASURE  
PENCIL  
CENTER PUNCH  
1/2" SOCKET & RATCHET WRENCH  
5/32" ALLEN WRENCH

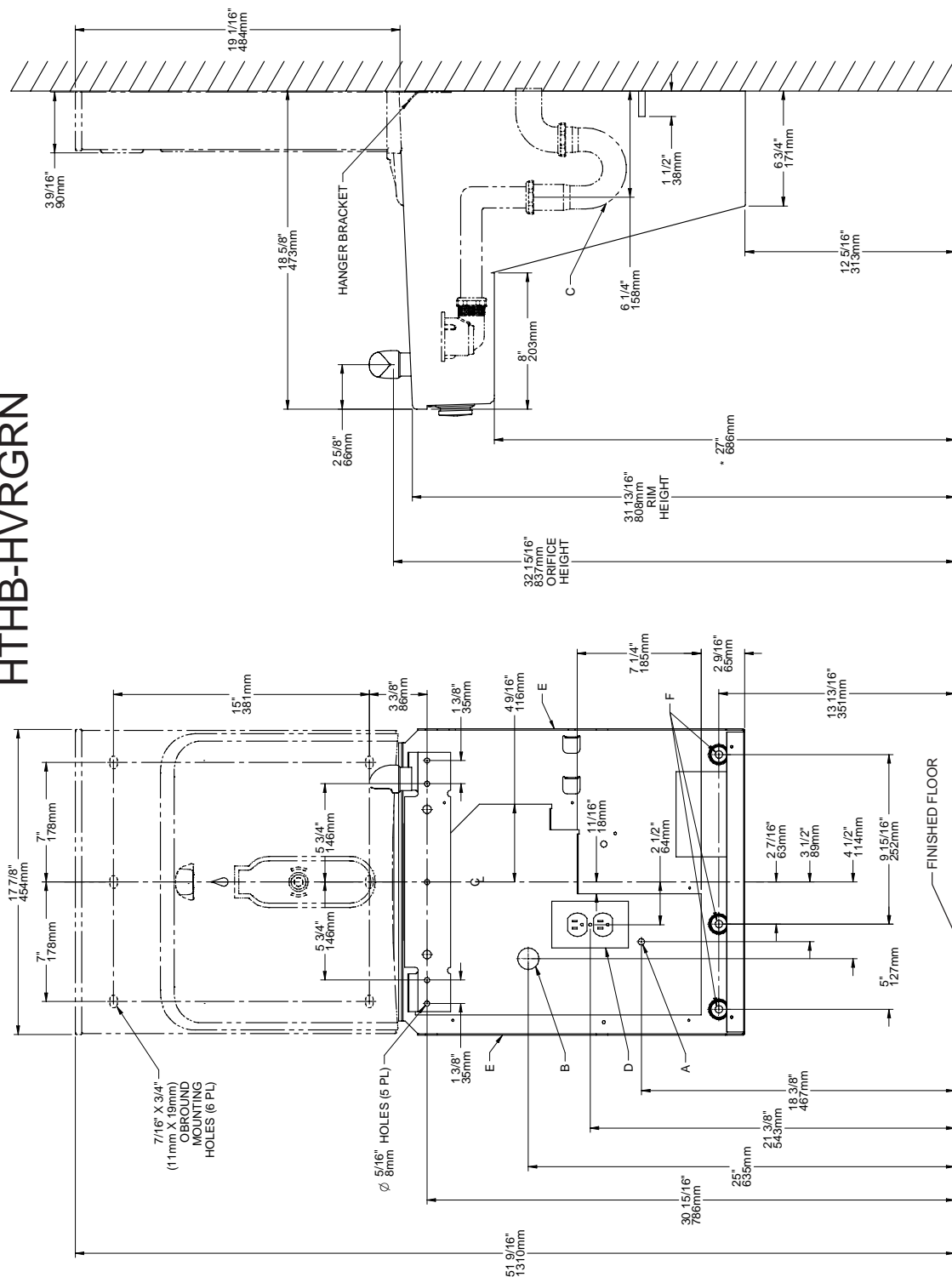
#### **IMPORTANT! INSTALLER PLEASE NOTE.**

THE GROUNDING OF ELECTRICAL EQUIPMENT SUCH AS TELEPHONE, COMPUTERS, ETC. TO WATER LINES IS A COMMON PROCEDURE. THIS GROUNDING MAY BE IN THE BUILDING OR MAY OCCUR AWAY FROM THE BUILDING. THIS GROUNDING CAN CAUSE ELECTRICAL FEEDBACK INTO A FOUNTAIN, CREATING AN ELECTROLYSIS WHICH CAUSES A METALLIC TASTE OR AN INCREASE IN THE METAL CONTENT OF THE WATER. THIS CONDITION IS AVOIDABLE BY USING THE PROPER MATERIALS AS INDICATED. ANY DRAIN FITTINGS PROVIDED BY THE INSTALLER SHOULD BE MADE OF PLASTIC TO ELECTRICALLY ISOLATE THE FOUNTAIN FROM THE BUILDING PLUMBING SYSTEM. WE SUGGEST THAT THE BOTTLE FILLING STATION AND WATER COOLER BE PROTECTED BY A GROUND FAULT CIRCUIT INTERRUPTER (GFCI).

#### **INSTALLER**

HTHB-HVRGRN Bottle Fillers are among the easiest to install on the market today. To insure you install these models easily and correctly, PLEASE READ THESE SIMPLE INSTRUCTIONS BEFORE STARTING THE INSTALLATION. CHECK YOUR INSTALLATION FOR COMPLIANCE WITH PLUMBING, ELECTRICAL, AND OTHER APPLICABLE CODES. After installation, leave these instructions with the Fountain for future reference.

## HTHB-HVRGRN



Single Rough-In  
Fig. 1

**REDUCE HEIGHT BY 3" FOR INSTALLATION OF CHILDRENS ADA COOLER**

**LEGEND:**

- A = RECOMMENDED WATER SUPPLY LOCATION 3/8" O.D. UNPLATED COPPER TUBE CONNECT STUB 1-1/2" (38mm) OUT FROM WALL. SHUT OFF VALVE NOT FURNISHED.
- B = RECOMMENDED LOCATION FOR WASTE OUTLET 1-1/4" O.D. DRAIN.
- C = 1-1/4" TRAP NOT FURNISHED.
- D = ELECTRICAL SUPPLY (3) WIRE RECESSED BOX, DUPLEX OUTLET REQUIRED.
- E = INSURE PROPER VENTILATION BY MAINTAINING 6" (152mm) MIN. CLEARANCE FROM CABINET LOUVER TO WALL.
- F = 7/16" BOLT HOLES FOR FASTENING UNITS TO WALL.



ALL UNITS SHALL BE 1/2" O.D. UNPLATED COPPER TUBE CONNECT STUB 1-1/2" (38mm) OUT FROM WALL. SHUT OFF VALVE NOT FURNISHED.  
B = 1-1/2" TRAP NOT FURNISHED.  
C = 1-1/2" TRAP NOT FURNISHED.  
D = ELECTRICAL SUPPLY (3) WIRE RECESSED BOX, DUPLEX OUTLET REQUIRED.  
E = INSURE PROPER VENTILATION BY MAINTAINING 6" (152mm) MIN. CLEARANCE FROM CABINET LOUVER TO WALL.  
F = 7/16" BOLT HOLES FOR FASTENING UNITS TO WALL.

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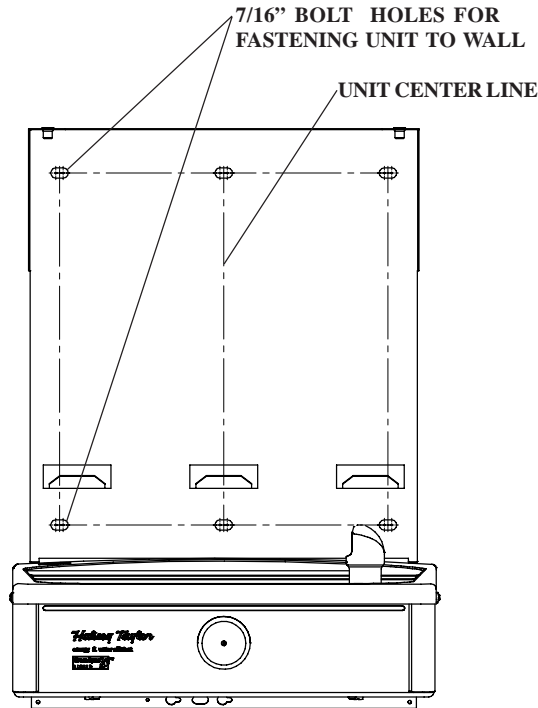


Fig. 3

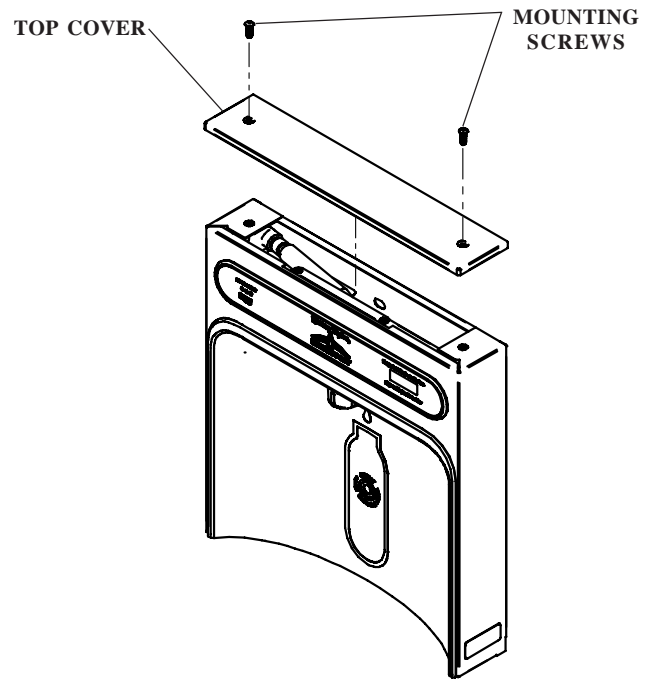
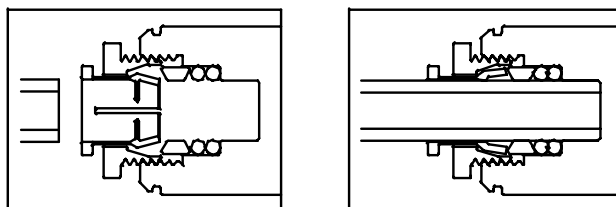


Fig. 4

#### BOTTLE FILLER INSTALLATION

- 1) Remove two (2) mounting screws with 5/32" allen wrench holding top cover to Bottle Filler (See FIG. 4). Remove top cover. Note do not discard mounting screws, they will be needed to reinstall top cover..
- 2) Remove wall mounting plate from Bottle Filler. Place Wall plate against wall on top of HVR basin. Center the wall plate side to side with the HVR basin. Mark the six (6) mounting holes with a pencil (See FIG. 3).
- 3) Remove wall mounting plate from wall. **NOTE:** Mounting plate **MUST** be supported securely. Add fixture support carrier if wall will not provide adequate support.
- 4) Install wall mounting plate to wall using six (6) 7/16" obround mounting holes (mounting bolts not included) (See FIG. 3). Use appropriate fasteners for your wall type.
- 5) Locate plastic bushing (provided) and place in basin hole by pushing into hole until it snaps into place. This bushing protects the water line, and power cord from sharp edge of basin. **This part must be used.**
- 6) Place Drain Mat into position on the bottom of the Bottle Filler Unit.
- 7) Remove 3/8" to 1/4" reducing union from end of waterline, (do not throw away it will be needed later). Lay Bottle Filler on water cooler basin and cut insulation from tube even with bottom of unit, remove this insulation from the 3/8" tube, but do not discard. Fish the power cord, and waterline through the hole on top of water cooler **NOTE:** To prevent scratching the basin place a towel or soft cloth over the entire basin when working above it.
- 8) With the power cord and waterline through hole on top of water cooler place Bottle Filler on the three (3) angled tabs protruding from the wall mounting plate, installed on wall (See Fig. 9). Make sure rubber Drain Mat is installed properly on bottom of Bottle filler (See Cover Illustration).
- 9) Once Bottle Filler is installed on wall plate tabs, drain mat, water line and power cord are installed properly, push top of Bottle Filler toward wall and line up top cover two (2) holes.
- 10) Reinstall Top Cover on Bottle Filler (See FIG. 4) with two mounting screws from step 1 above. Caution do not over tighten screws.
- 11) **For Single Model Installations:** Install remaining tube insulation to the water line from bottle filler, connect Bottle Filler waterline inside of the water cooler by connecting the 3/8" water line with the 3/8" to 1/4" union and short piece of poly tube that was previously installed to the tee at the evaporator outlet.
- 11a) **For Two Level Model Installations:** Install the 1/4" poly tubing and insulation from the outlet of the filter to the union on top of the evaporator. Install the 1/4" poly tubing and insulation from the regulator in the non-refrigerated cooler to the tee at the evaporator outlet. Install remaining tube insulation to the water line from bottle filler, connect Bottle Filler waterline inside of the water cooler by connecting the 3/8" water line with the 3/8" to 1/4" union and short piece of poly tube that was previously installed to the tee at the regulator inlet on the non-refrigerated cooler.
- 12) Install filter cartridge, remove filter from carton, remove protective cap, attach filter to filter head by firmly inserting into head and rotating filter clockwise. **NOTE:** If existing plumbing rough-in locations (Drain, Water In, Electric Supply) do not allow the filter to be mounted inside the cooler cabinet the filter can be installed horizontally below the unit. A retrofit kit is available to mount the filter beneath the cooler.
- 13) Turn water supply on and inspect for leaks. Fix all leaks before continuing.
- 14) Once unit has been inspected for leaks and any leaks found corrected plug Bottle Filler and HVR unit into wall. Be sure to reinstall fuse to the circuit or switch the circuit breaker back to the "ON" position.
- 15) Once power is applied to Bottle Filler, the GREEN LED light should illuminate showing good filter status along with the LCD Bottle Counter.
- 16) Verify proper dispensing by placing cup, hand, or any opaque object in front of sensor area and verify water dispenses. Note: the first initial dispenses might have air in line which may cause a sputter. This will be eliminated once all air is purged from the line.
- 17) Once unit tests out, install Lower Panel back on HVR water cooler(s). Units are now ready for use.



**Note: Screw the locknut hand tight to seal**

Fig. 5

#### OPERATION OF QUICK CONNECT FITTINGS

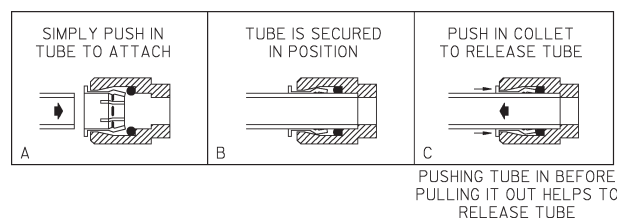


Fig. 6

## **BF6-BF7-BF8 PROGRAMS**

### **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 BF6, BF7, BF8 or BF9.
- 6) Reference the BF6-BF7-BF8 or BF9 instructions for setting the control board.

#### **ACCESSING THE PROGRAMING BUTTON**

- 1) To access the program button the lower panel of the unit must be must be opened. The programming button is located at the bottom right corner of the upper panel. This area of the unit is concealed by the lower panel.

#### **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 three messages:  
**"RST FLTR"** – Reset Filter Status LED  
**"RST BCNT"** – Reset Bottle Count  
**"RNG SET"** – Range Set for IR Sensor  
 If the program button is not pushed again the display will scroll through the three 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 "FLT=". Depress the button again and the display will show "FLTR=0".
- 4) The green LED shroud now 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 three messages:  
**"RST FLTR"** – Reset Filter Status LED  
**"RST BCNT"** – Reset Bottle Count  
**"RNG SET"** – Range Set for IR Sensor
- 2) 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 display shows "RNG SET" push program button once the display will show current value (can be 1 – 10) i.e. **"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.

#### **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  
**"RST BCNT"** – Reset Bottle Count  
**"RNG SET"** – Range Set for IR Sensor  
 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 "RST BCNT", depress the button again. The display will change to show current bottle count value i.e. "BC0033183".
- 3) Depress the button again and the display will change to "BTLCT=0" for approximately 2 seconds and then return to run mode displaying 000000.
- 4) You can test the bottle counter by running water approximately 5 seconds to see bottle counter advance 1.

## **BF9 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 BF6, BF7, BF8 or BF9.
- 6) Reference the BF6-BF7-BF8 or BF9 instructions for setting the control board.

#### **ACCESSING THE PROGRAMING BUTTON**

- 1) To access the program button remove the top cover of the bottle filler. Remove the two (2) screws holding top cover to bottle filler with a 5/32" allen wrench . Remove top cover. Do not discard mounting screws, they will be needed to reinstall the top cover after programming operations are completed. The programming button is located at the top right side of the unit on the control board.

#### **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 BCNT" – 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 "FLT =". 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-REFRIG)  
"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) i.e. "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**

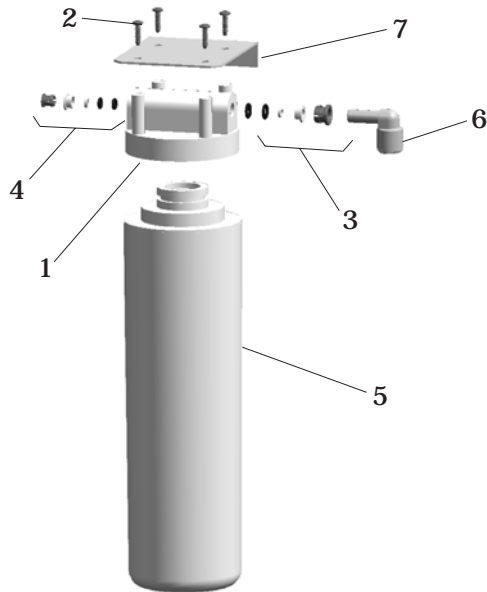
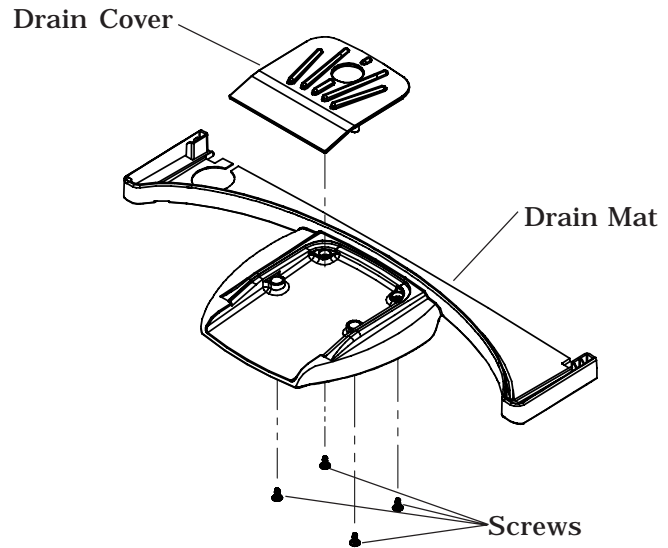
- 1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:  
"RST FLTR" – Reset Filter Status LED  
"SETTINGS" – System Settings Sub Menu  
If the program button is not pushed again the display will scroll through the two messages above for three cycles and then default back to bottle count and be back in run mode.
- 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-REFRIG)  
"RST BCNT" - Reset bottle count
- 3) When display shows "UNIT TYP" push program button once the display will show current value  
Can be REFRIG or NON-REFRIG
- 4) Push button once to change value. Once value is selected the display will show the new value.  
(Can be REFRIG or NON-REFRIG)  
"REFRIG" - stands for refrigerated product. In this setting the flow rate is estimated at 1.0 gallon per minute.  
"NON-REFRIG" - stands for non-refrigerated product. In this setting the flow rate is estimated at 1.5 gallons per minute.  
Both "REFRIG" and "NON-REFRIG" simulated 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**

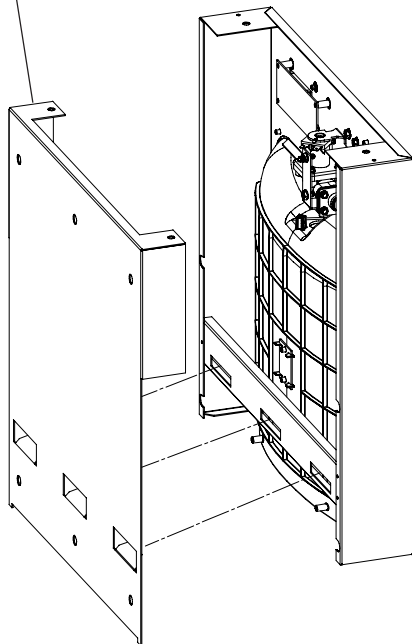
- 1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:  
"RST FLTR" – Reset Filter Status LED  
"SETTINGS" – System Settings Sub Menu  
If the program button is not pushed again the display will scroll 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-REFRIG)  
"RST BCNT" - Reset bottle count  
If the button is not pushed again the display will scroll through the three 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 i.e. "000033183".
- 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-REFRIG 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).



WATERSENTRY® PLUS FILTER PARTS LIST (See Fig. 7)			LISTA DE PIEZAS DEL FILTRO (Vea Fig. 7)	LISTE DES PIÈCES DU FILTRE (Voir Fig. 7)
ITEM NO.	PART NO.	DESCRIPTION	DESCRIPCIÓN	DESCRIPTION
1	51294C	Filter Head Assy.	Ensamblado de la Cabeza del Filtro	Ens. de tête de filtre
2	70792C	Screw #8-18 x .75 PH	Tornillo #8-18 x .75 PH	Vis #8-18 x .75 hp
3	70823C	Fitting - Superseal 3/8" (10 mm)	Accesorio - Supersello 3/8" (10mm)	Raccord - Superseal 3/8" (10mm)
4	70822C	Fitting - Superseal 1/4" (6 mm)	Accesorio - Supersello 1/4" (6 mm)	Raccord - Superseal 1/4" (6mm)
5	55898C	Filter Assy	Ensamblado del Filtro	Ens. filtre
6	70818C	Elbow - 3/8" (10mm)	Codo - 3/8" (10 mm)	Coude - 3/8" (10mm)
7	28641C	Bracket	Fijador	Support

**WATER FILTER EXPLODED VIEW****Fig. 7****DRAIN MAT EXPLODED VIEW****Fig. 8****DRAIN MAT ASSEMBLY AND CARE**

- 1) Place Drain Cover on mat and install the four screws as shown in Fig. 8.
- 2) It is recommended that the cover be removed and the drain cover be cleaned weekly. To dis-assemble or re-assemble the drain cover the mat can be picked up from the front to access the screws beneath.

**WALL MOUNTING PLATE****Fig. 9****BOTTLE FILLING UNIT****REPLACEMENT PART KITS**

PART NO.	DESCRIPTION
98543C	Kit - Electrical Package
98544C	Kit - IR Sensor
98545C	Kit - Solenoid Valve Replacement
98546C	Kit - Aerator Replacement
98666C	Kit - Top Cover Replacement
98667C	Kit - Drain Mat & Cover Replacement
98549C	Kit - Hardware & Waterway Parts
98668C	Kit - Filter Mounting Cover
98552C	Kit - Retro Filter Mounting

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