

HTHB-HAC Retrofit Hydroboost[®] Bottle Filling Station



<u>IMPORTANT</u>

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 UTILITY KNIFE TAPE MEASURE PENCIL 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-HAC 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.

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WATER COOLER PREPARATION

NOTE:

- On Two Level Models, the Bottle Filling Unit can be mounted to the higher or lower unit:
- Two Level Standard Models; high unit is on Left Hand(LH) side.
- Two Level Reverse Models; high unit is on Right Hand(RH) side.



Remove Front Panel



Loosen Drain Line



Remove Basin Fasteners



Remove Bubbler Water Line

1) Remove Front Panel

- Remove lower front panel of water cooler by removing the four (4) screws, two at top and two at bottom. On Two Level Models, remove both front panels.
- WARNING: Before proceeding. Disconnect electrical power supplying the water cooler. Switch circuit breaker "OFF" or remove fuse.
- Unplug water cooler power cord from electrical outlet.
- Shut off water supply.

2) Loosen Drain Line

- Loosen Slip-Joint Nut at P-trap.
- Note: Have container/bucket readily available to catch water from lines.

3) Remove Basin Fasteners

• Remove Basin Assembly by loosening eight (8) screws, four on each side of basin.

4) Remove Bubbler Water Line

• Disconnect water line from bubbler.

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WATER COOLER PREPARATION

5) Lift and Remove Basin.

6) Assemble Drain hardware.

plate on to the new basin

· Remove basin assembly by lifting straight up, disconnecting the drain line from the P-trap.

· Remove drain hardware from original basin. • Remove the protective covering from the basin. • Reinstall the drain elbow, drain plug, and strainer



Lift and Remove Basin.

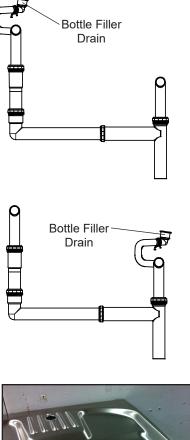


Exchange Drain hardware.



7) Exchange Bubbler hardware.

- Remove bubbler hardware from original basin.
- Reinstall the bubbler hardware on to the new basin.
- · Ensure the bubbler is properly positioned with the stream falling onto the center of splash ridge.





Exchange Bubbler hardware.

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HWF3000 WATERSENTRY[®] PLUS FILTER INSTALLATION (With Filter) WARNINGS:

- Do not use with water that is microbiologically unsafe or of unknown quality. For potable water only.
- Do not use with a hot water supply. Rated for water temperature: 33°-100°F(2°-38°C)
- Water line pressure must not exceed 100 PSI(690kPa). Use an inline water pressure regulator before filter to limit maximum pressure. Rated water supply pressure: 20-100PSI(138-690kPa).
- Filter kits must be installed in compliance with all state and local laws and regulations governing the installation and use of this product.
- **NOTE:** If existing plumbing rough-in locations (Drain, Water In, and 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.

NOTE:

- Ends of tubing must be cut square and free of burrs and sharp ends that could cut or nick the o-rings.
- Loosen the locknut and push tube end past both o-rings to a positive stop in the filter head recess - approx. 1".
- Locknut may have to be backed out a little more. Screw the locknut hand tight to seal.

Attach water-in copper tube to Filter Head inlet

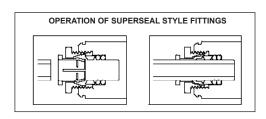


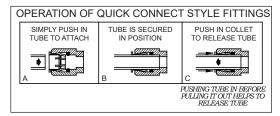


Single Level Models



Two Level Models





1) Attach port fittings onto Filter Head:

- Note: Refer to photos at left for proper alignment.
 Insert 3/8" 90° Quick Connect elbow fitting into Superseal IN port.
- Insert 1/4" poly tube into Superseal OUT port. If necessary, insert a 1/4" x 90° Elbow.
- Adjust and tighten port fittings.
- 2) Attach Filter head assembly.
 - If not already preassembled. Attach Filter head assembly to filter mounting bracket with four(4) screws supplied.
 - · Single Level Models
 - Mount with 3/8" inlet on Right Side



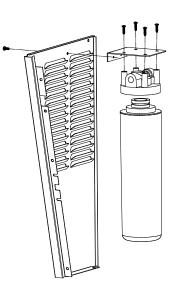
Mount with 3/8" Inlet on Left Side

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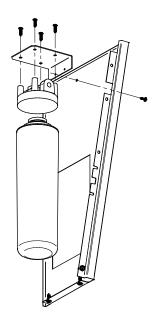
HWF3000 WATERSENTRY[®] PLUS FILTER INSTALLATION (With Filter)

- Mount Filter Head Assembly Mount Filter Head Assembly into Cooler. Unit with single supplied screw:
 - Single Level Models
 - Mount on inside of left panel butted up against top lip.
 - NOTE: The filter bracket is mounted with a single screw.



Single Level Models

- Two Level Models
- Mount in left hand cooler on the inside of the right panel, butted up against the top lip.
- NOTE: The filter bracket is mounted with a single screw.



Two Level Models

- 4) Connect Building water supply.
 - Remove the 3/8" water inlet from the in-line strainer.
 - Connect 3/8" poly tubing between the inlet of the filter and the water inlet using the supplied 3/8" x3/8" union connector.
 - Discard in-line strainer.

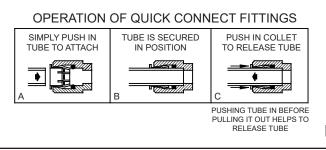
Fig. 1

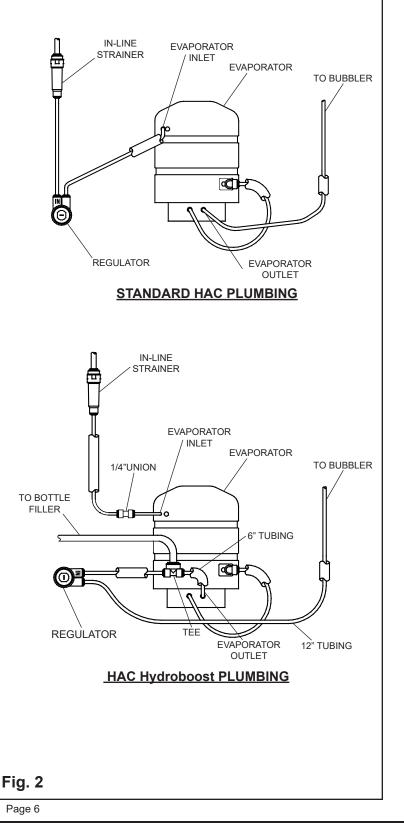
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RE-PLUMBING SINGLE STATION WATER CIRCUITS (NON-FILTER)

CAUTION:

- This procedure <u>MUST</u> be performed on <u>ALL SINGLE HALSEY TAYLOR WATER COOLERS</u> or the bottle filling unit <u>WILL NOT</u> perform properly!
- When disconnecting water lines use a container to catch any water running out of the lines.
- 1) Connect Water Supply:
 - Remove the in-line strainer outlet tube from the Regulator Inlet.
 - Remove the 1/4" copper tubing from the Regulator Outlet.
 - Connect the in-line Strainer Outlet using 1/4" poly tubing to the Evaporator 1/4" copper inlet using the supplied 1/4" union.
- 2) Add water supply to Bottle Filler:
 - Cut the Evaporator outlet 1/4" poly tubing 6" from the Evaporator Outlet and insert the 1/4" Tee fitting between the two pieces.
 - · Connect Bottle Filler supply line to tee fitting.
 - Remove 1/4" poly tubing from Bubbler.
- 3) Re-route water supply to Regulator Inlet:
 - Insert end of 1/4" poly tubing from the Tee fitting to the Regulator Inlet which is marked with the word "IN" on the regulator.
- 4) Connect water supply from Regulator to Bubbler:
 - Cut a 12" piece of 1/4" poly tube along with matching length of insulation.
 - Insert 1/4" poly tube into insulation.
 - Insert 1/4" poly tube into the Regulator Outlet (unmarked).
 - Opposite end of 1/4" poly tube will be inserted later into the Bubbler.





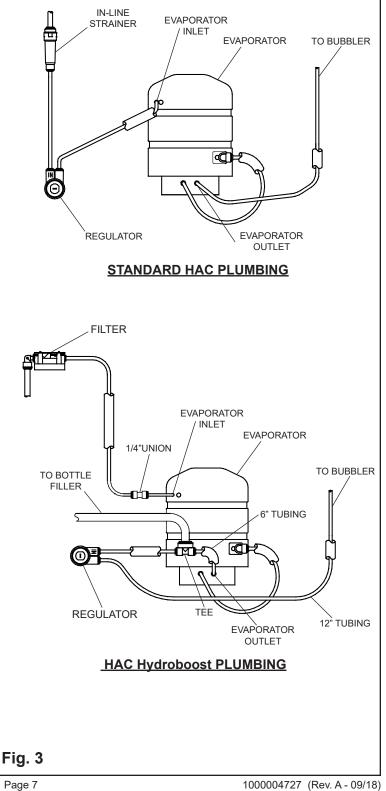
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RE-PLUMBING SINGLE STATION WATER CIRCUITS (WITH FILTER)

CAUTION:

 This procedure <u>MUST</u> be performed on <u>ALL SINGLE HALSEY TAYLOR WATER COOLERS</u> or the bottle filling unit WILL NOT perform properly!

- When disconnecting water lines use a container to catch any water running out of the lines.
- 1) Connect Water Supply From Filter to Evaporator:
 - · Remove the in-line strainer outlet tube from the Regulator Inlet.
 - Remove the 1/4" copper tubing from the regulator Outlet.
 - Connect the Filter outlet using 1/4" poly tubing to the Evaporator 1/4" copper inlet using the supplied 1/4" union.
- 2) Add water supply to Bottle Filler:
 - Cut the Evaporator Outlet 1/4" poly tubing 6" from the Evaporator Outlet and insert the 1/4" Tee fitting between the two pieces.
 - Connect Bottle Filler supply line to Tee fitting.
 - Remove 1/4" poly tubing from Bubbler.
- 3) Re-route water supply to Regulator:
 - Insert end of 1/4" poly tubing from the Tee fitting to the Regulator Inlet. which is marked with the word "IN" on the Regulator.
- 4) Connect water supply from Regulator to Bubbler.
 - Cut a 12" piece of 1/4" poly tube along with matching length of insulation.
 - Insert 1/4" poly tube into insulation.
 - Insert 1/4" poly tube into the Regulator Outlet (unmarked).
 - Opposite end of 1/4" poly tube will be Inserted later into the Bubbler.



RE-PLUMBING TWO LEVEL STATION WATER CIRCUITS (NON-FILTER)

CAUTION:

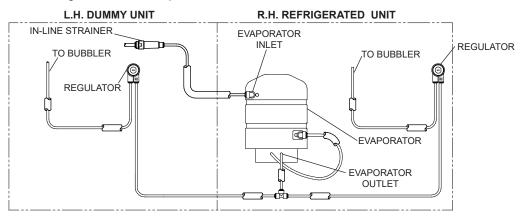
- This procedure <u>MUST</u> be performed on <u>ALL TWO LEVEL HALSEY TAYLOR WATER COOLERS</u> or the bottle filling unit <u>WILL NOT</u> perform properly!
- When disconnecting water lines use a container to catch any water running out of the lines.

1) Add water supply to Bottle Filler to be located on LH unit:

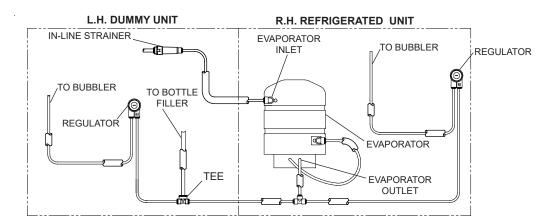
• In the left hand unit, cut the Evaporator outlet 1/4" poly tubing approx. 5" from the access opening between the units, insert the 1/4" Tee fitting between the two pieces and connect 3/8" water line to tee.

2) Add water supply to Bottle Filler to be located on RH unit:

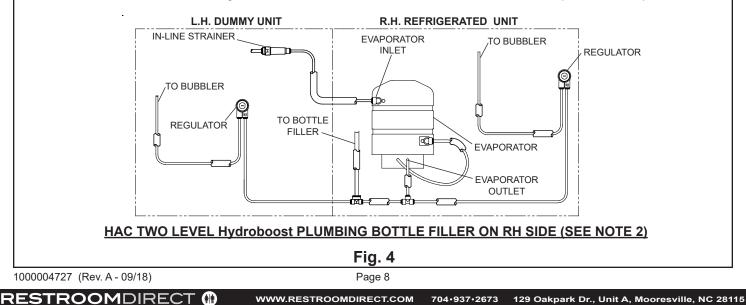
• In the right hand unit, cut the Evaporator outlet 1/4" poly tubing approx. 2" from the access opening between the units, insert the 1/4" Tee fitting between the two pieces and connect 3/8" water line to tee.



STANDARD HAC TWO LEVEL PLUMBING WITHOUT BOTTLE FILLER



HAC TWO LEVEL Hydroboost PLUMBING BOTTLE FILLER ON LH SIDE (SEE NOTE 1)



RE-PLUMBING TWO LEVEL STATION WATER CIRCUITS (WITH FILTER)

CAUTION:

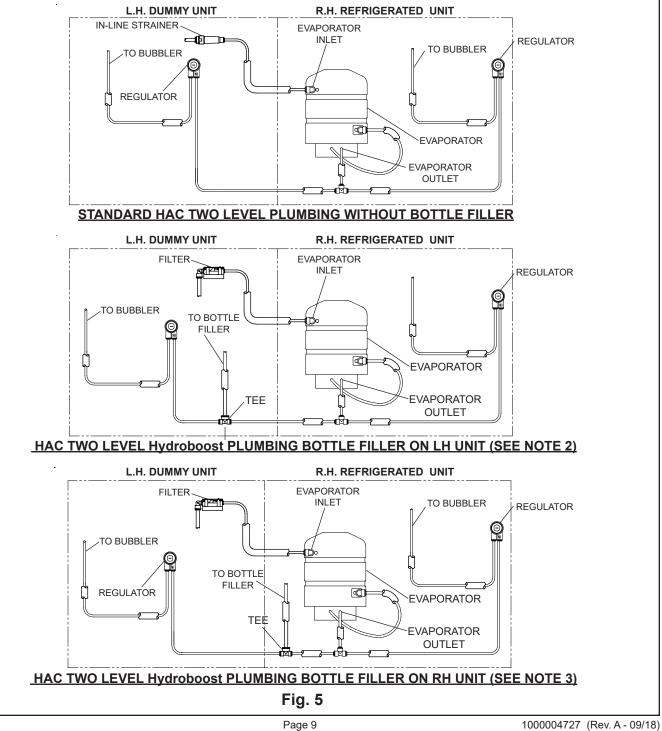
- This procedure MUST be performed on ALL TWO LEVEL HALSEY TAYLOR WATER COOLERS or the bottle filling unit WILL NOT perform properly!
- When disconnecting water lines use a container to catch any water running out of the lines.

1) Connect Water Supply:

- In the left hand unit, connect the Filter outlet using 1/4" poly tubing to the Evaporator 1/4" copper inlet using the supplied 1/4" quick connect fitting.
- 2) Add water supply to Bottle Filler to be located on LH unit:
 - In the left hand unit, cut the Evaporator outlet 1/4" poly tubing approx. 5" from the access opening between the units, insert the 1/4" Tee fitting between the two pieces and connect 3/8" water line to tee.

3) Add water supply to Bottle Filler to be located on RH unit:

• In the right hand unit, cut the Evaporator outlet 1/4" poly tubing approx. 2" from the access opening between the units, insert the 1/4" Tee fitting between the two pieces and connect 3/8" water line to tee.



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BASIN ASSEMBLY PREPARATION

1) Connect Water Line

• Connect water line from Regulator to Bubbler.



Connect Water Line

2) Install New Basin Assembly

- Reposition Basin Assembly (Basin with Drain and Bubbler hardware) back onto the cooler.
- Reattach drain line to P-trap and tighten.



Reattach drain line to P-trap

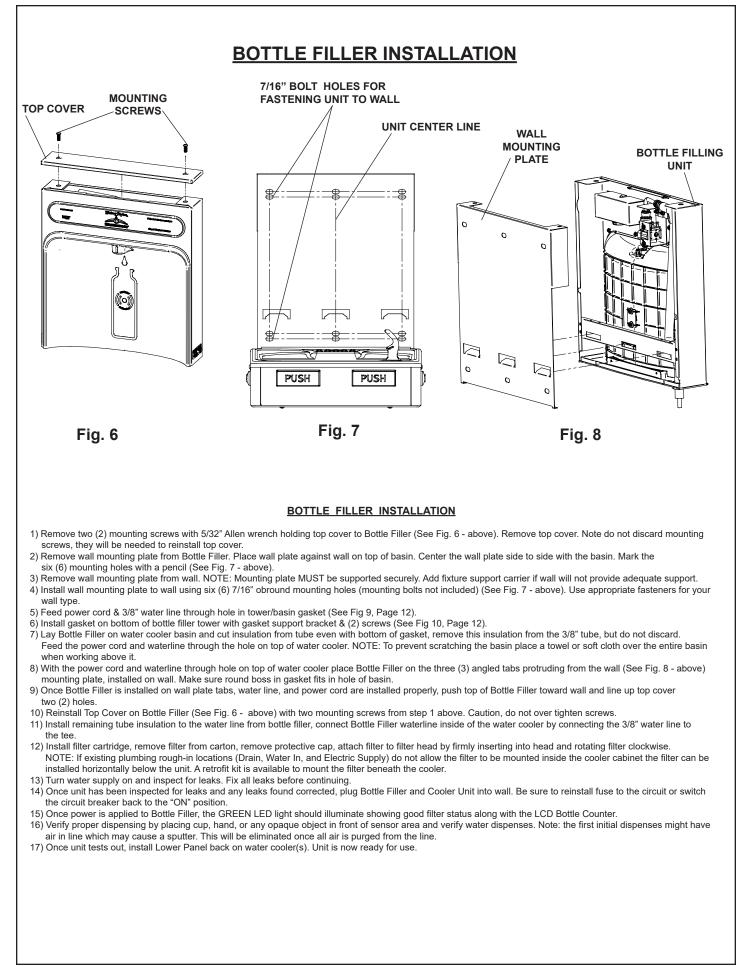
- 3) Fasten Basin Assembly in place.
 - Insert and retighten the 8 screws, four per side.



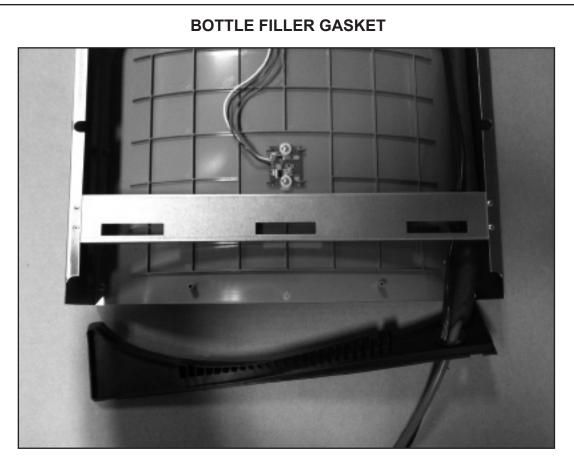
Fasten Basin Assembly in place.

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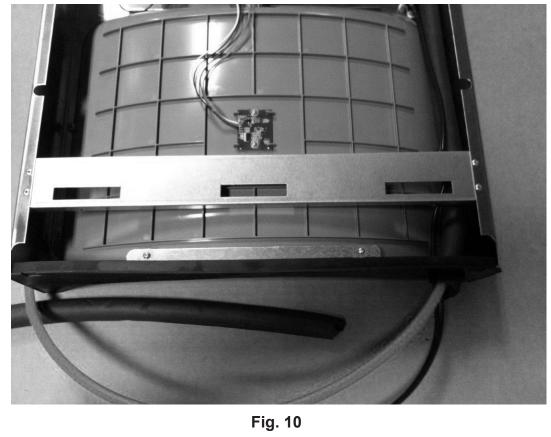
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BF11 - BF12 PROGRAM SETTING THE CONTROL BOARD

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) 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 or BF12.

ACCESSING THE PROGRAMMING BUTTON

1) To access the program button, remove the top cover of the bottlefiller. 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 5) Allow approximately 4 seconds to pass and the display will return to programming operations are completed. The programming button is located at the top right side of the unit on the control board. NOTE: When applicable, there is also an alternate reset button 1) Depress the program button for approximately 2 seconds until the located on the lower part of the water cooler. After removing the bottom cover, the reset button will be located on the left side of the cooler, mounted on the side panel support.

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.
- 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.

bottle counter and be in run mode.

RESETTING BOTTLE COUNT

- 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.

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

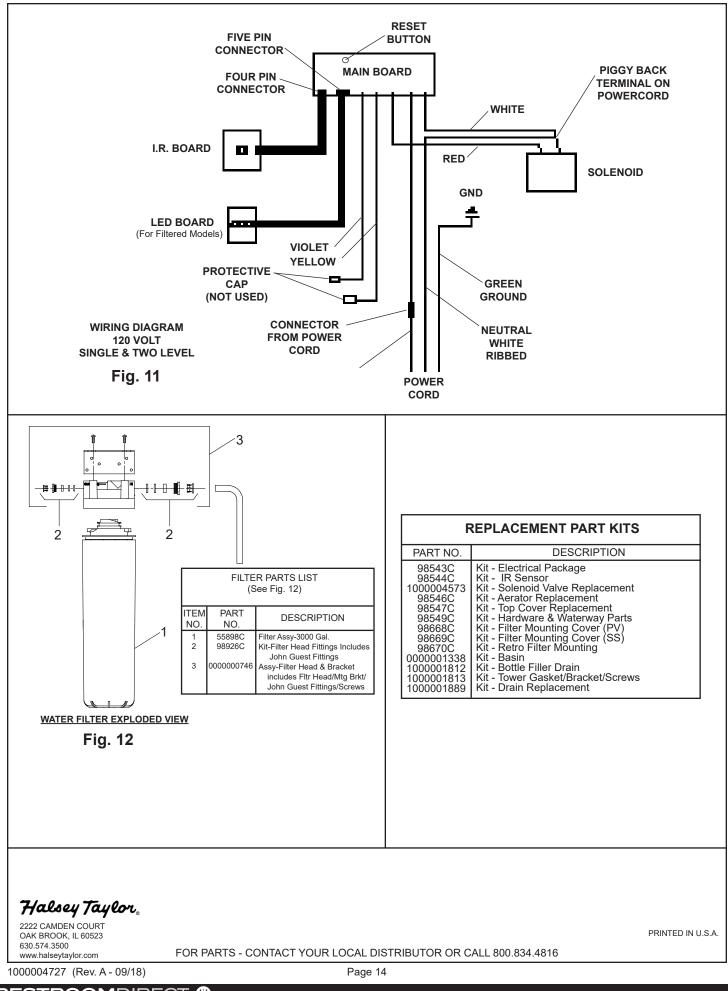
1) Depress the program button for approximately 2 seconds until the display changes then release. The display will change and scroll through two messages:

- "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.

- 5) Once range is selected allow approximately 4 seconds to pass and 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.

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