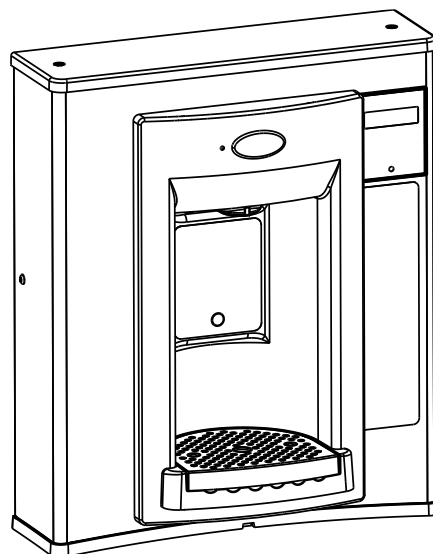# OASIS® Water Coolers

QUASAR Hands-Free Bottle Filler

UVC-LED WATER TREATMENT

Model PWEBQ and PWF2EBQ (retro fit) and PG*EBQ Family of Drinking Fountains/Bottle Filler combo
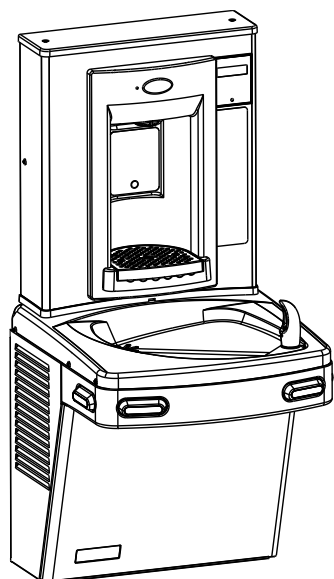
Installation Instructions

The Hands-Free Bottle Filler mounts directly above Versacooler® I and II products. If the cooler electrical outlet does not have two useable plugs, an outlet splitter will need to be used.

If installed onto a refrigerated cooler, chilled water can be dispensed through the Bottle Filler. Otherwise, room temperature water will be dispensed.
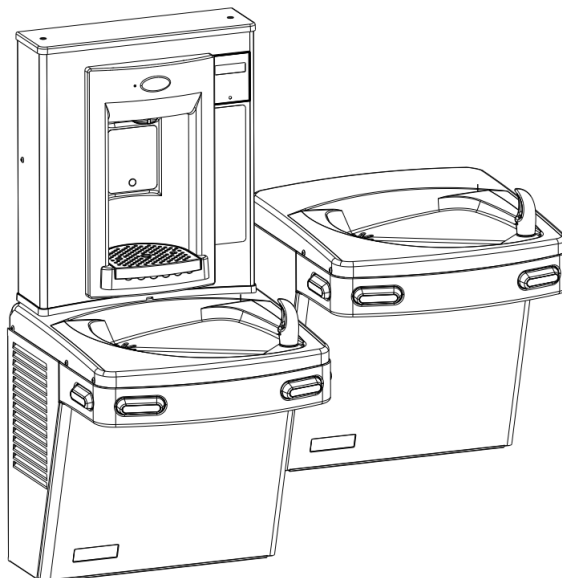
The Bottle Filler is shipped partially assembled.

On the combo units, the cooler is plumbed and ready to attach to the Bottle Filler.

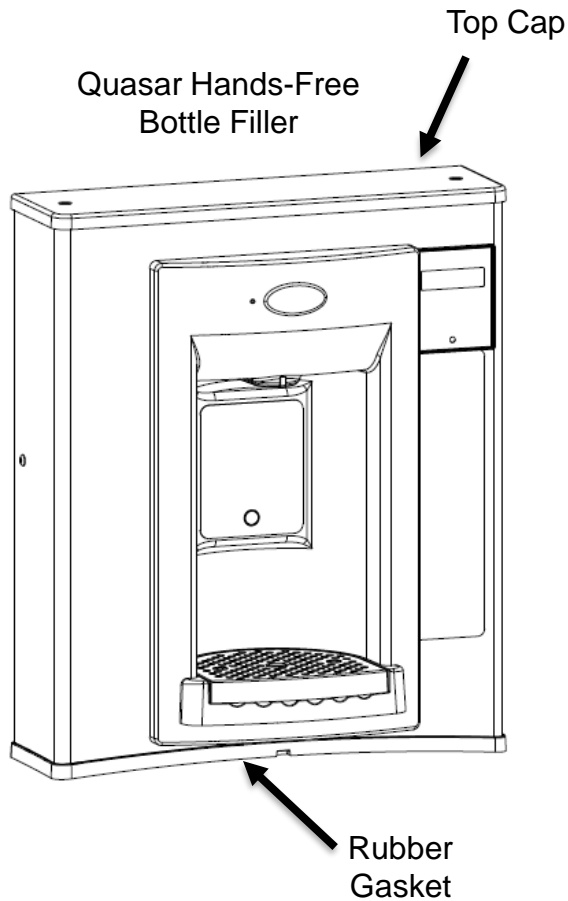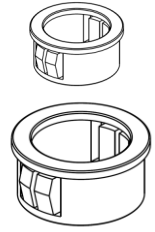**When completed, the finished assembly will look like this:**

OR

1

What's Included:
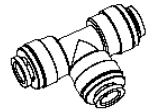
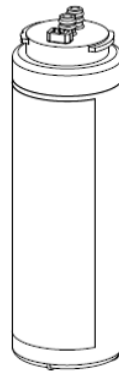Top Cap

Quasar Hands-Free
Bottle Filler

38" of ¼ OD plastic
tubing with 38" of
sponge tubing
insulation

Snap bushings 7/8"
and 1½"

Quick connect tee
fitting

Installation
instructions

remedi
filter

Versafilter III

Rubber
Gasket
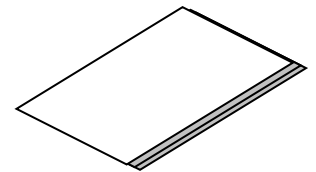
The Versafilter III and remedi filter are only
included in the PWF2EBQ model.

Tools required:

- ➢ 3/8" pilot drill and either a step drill bit up to 7/8" diameter that will drill
   through SS top or 7/8" diameter punch die (retrofit version only)

- ➢ Electric drill; wrench for punch die

- ➢ Small tubing cutter for copper tube

- ➢ 1/4" nut driver

- ➢ # 2 Phillips screw driver

- ➢ #15 torx bit driver

2

Section 2: IMPORTANT REQUIREMENT

CAUTION: DO NOT ACTIVATE BOTTLE FILLER ELECTRIC EYE SENSOR WITHOUT RUNNING WATER THROUGH THE UVC MODULE. OPERATING THE UVC MODULE DRY WILL DAMAGE THE UVC LEDs.
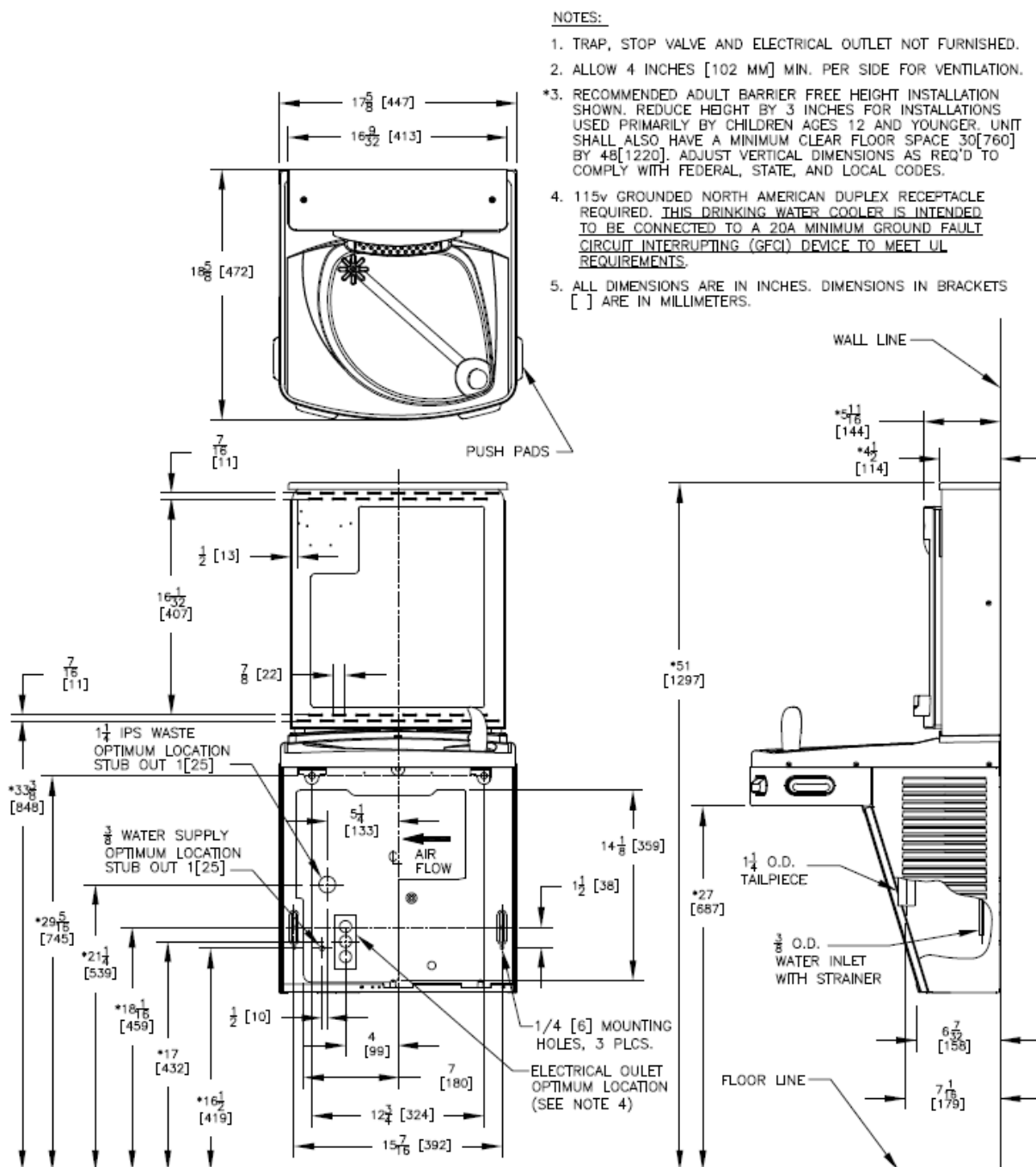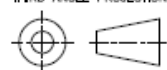
Section 3: QUASAR® UVC-LED OPERATION

1. QUASAR is a form of dispense point water treatment that utilizes UVC-LED's to inactivate pathogens.
2. Operation:
   a. The QUASAR activation is automatic. The UVC-LED's turn ON when water is dispensed and OFF when the dispense stops.
   b. During non-use periods the QUASAR automatically cycles ON for ten seconds every ten minutes. This keeps the dispense point more sanitary between use.
   c. When the QUASAR is ON, the LED light on the front of the alcove near the top will turn ON. The LED will be BLUE when the QUASAR is working properly.
   d. If QUASAR is not working properly, then the LED light on the front of the alcove near the top will be RED or YELLOW. The light will remain ON and the system will not allow water to be dispensed until the problem is resolved.
   e. **IMPORTANT:** Never operate the QUASAR without water connected to the system. Lack of water can cause the QUASAR to overheat. If it is necessary to activate QUASAR to purge the system of air, then do not activate the QUASAR dry for more than 4-5 seconds at a time. Wait 60 seconds to allow the QUASAR to "cool" before the next "dry" activation. Dry activations normally occur during initial setup or during filter changes.

## Oasis PWEBQ: Versacooler® II Models PGAC, PG8AC with Hands-Free Bottle Filler

NOTES:

1. TRAP, STOP VALVE AND ELECTRICAL OUTLET NOT FURNISHED.
2. ALLOW 4 INCHES [102 MM] MIN. PER SIDE FOR VENTILATION.
*3. RECOMMENDED ADULT BARRIER FREE HEIGHT INSTALLATION SHOWN. REDUCE HEIGHT BY 3 INCHES FOR INSTALLATIONS USED PRIMARILY BY CHILDREN AGES 12 AND YOUNGER. UNIT SHALL ALSO HAVE A MINIMUM CLEAR FLOOR SPACE 30[760] BY 48[1220]. ADJUST VERTICAL DIMENSIONS AS REQ'D TO COMPLY WITH FEDERAL, STATE, AND LOCAL CODES.
4. 115v GROUNDED NORTH AMERICAN DUPLEX RECEPTACLE REQUIRED. THIS DRINKING WATER COOLER IS INTENDED TO BE CONNECTED TO A 20A MINIMUM GROUND FAULT CIRCUIT INTERRUPTING (GFCI) DEVICE TO MEET UL REQUIREMENTS.
5. ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS.

THIRD ANGLE PROJECTION

ROUGHING—IN AND DIMENSIONAL DRAWING

4

Oasis PWEBQ: Versacooler® II Split Level Models with Hands-Free Bottle Filler

5
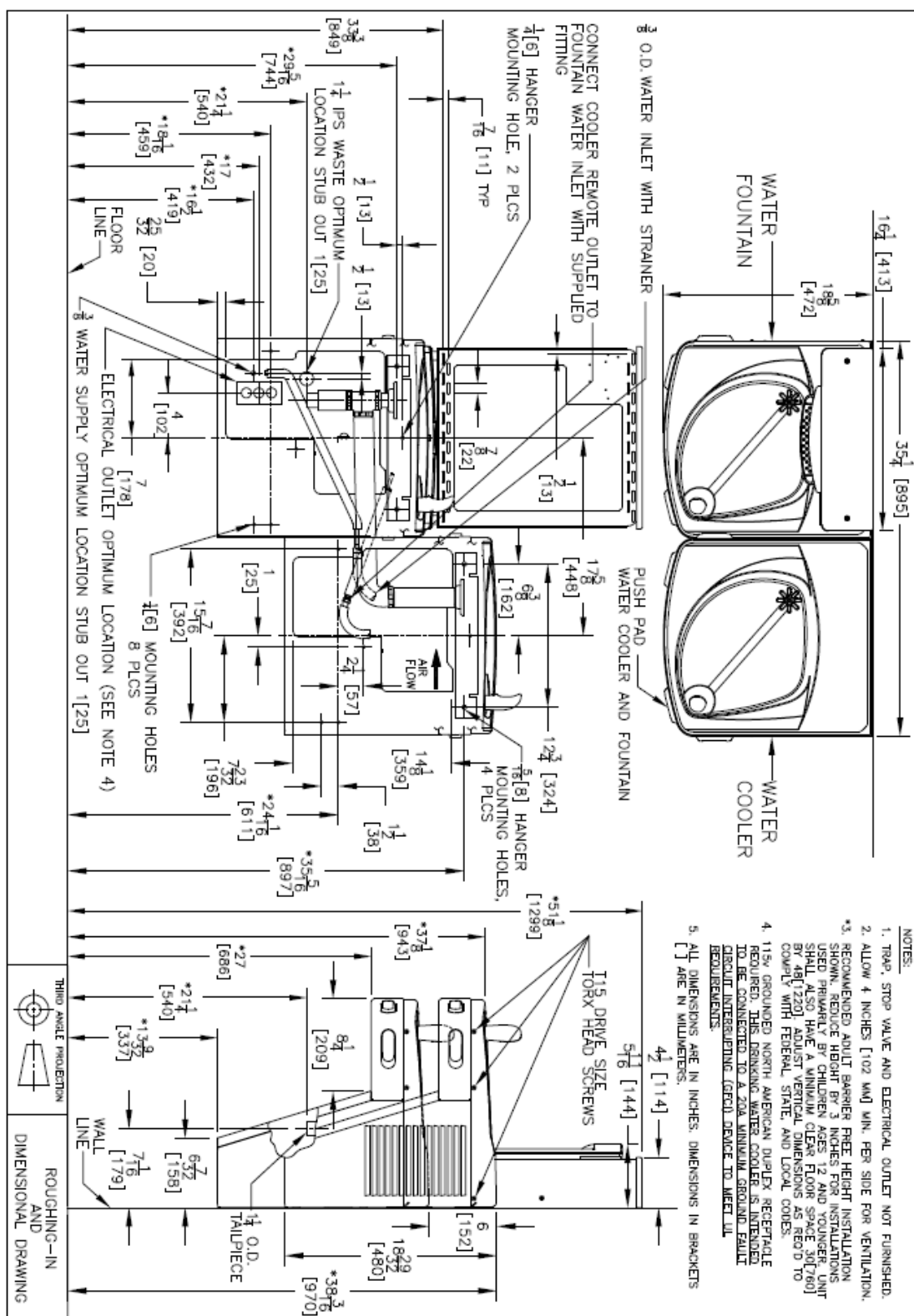
* On split level models, the Bottle Filler must be mounted on the low unit in order to meet ADA guidelines.

Note: Proceed to Section 3B Step 5 "Final steps for both product families" if the cooler is purchased "Quasar Bottle Filler or VersaFiller ready".

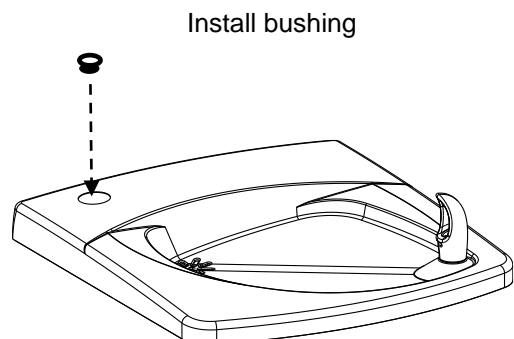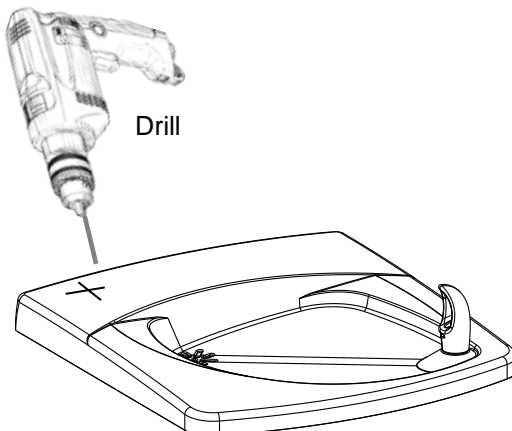## A: Drilling hole in the top for water line connection.

1. Disconnect power by <u>UNPLUGGING</u> unit. It might be necessary to remove the front panel to get access to the power.

2. Turn OFF water supply to the unit. It might be necessary to remove the front panel to access the water stop valve.

3. Place hole template onto cooler top so it is aligned with the left side of unit and wall. SEE NEXT PAGE FOR TEMPLATE

4. Mark hole location

5. Remove top from unit.

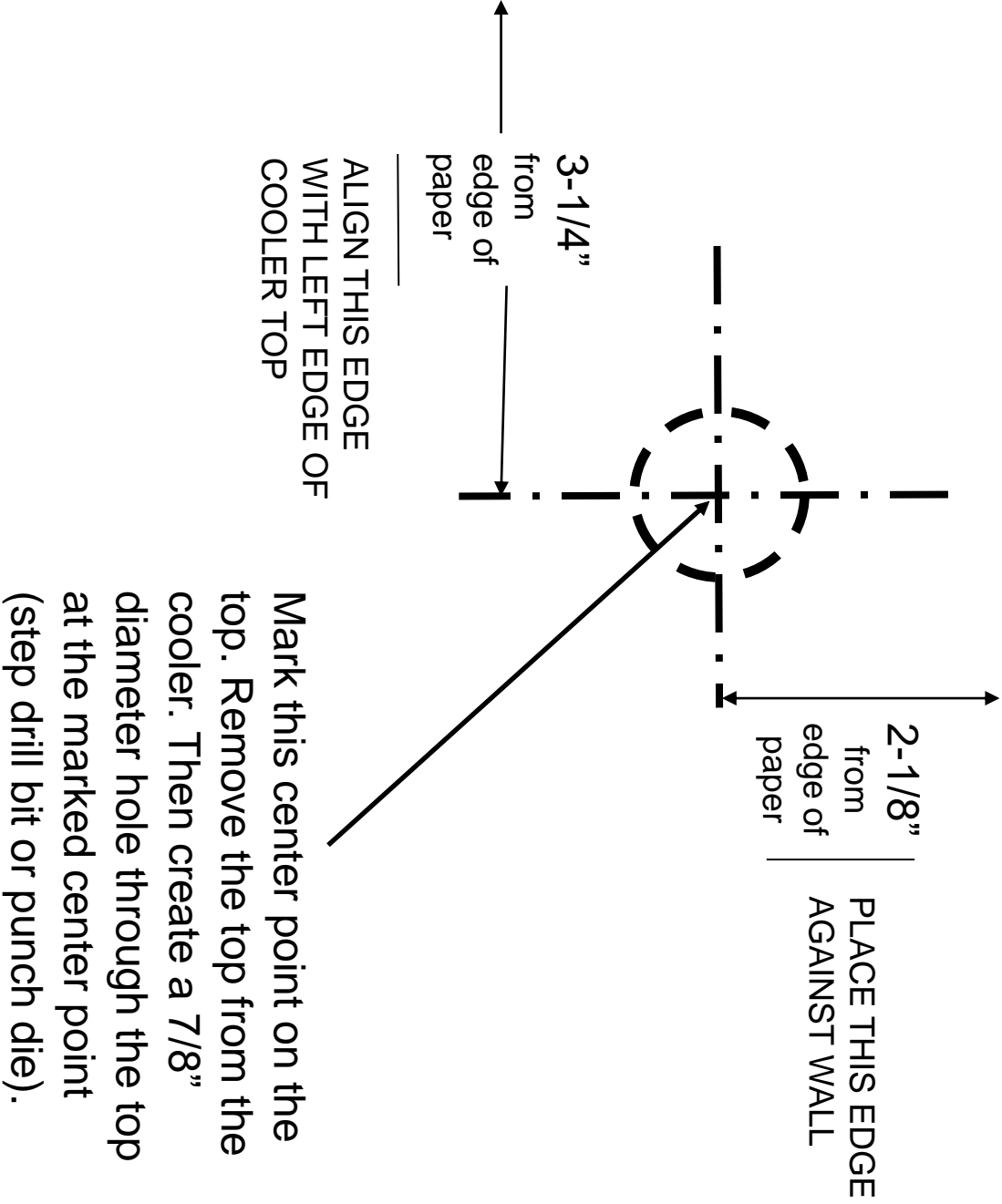Template

Mark hole location.
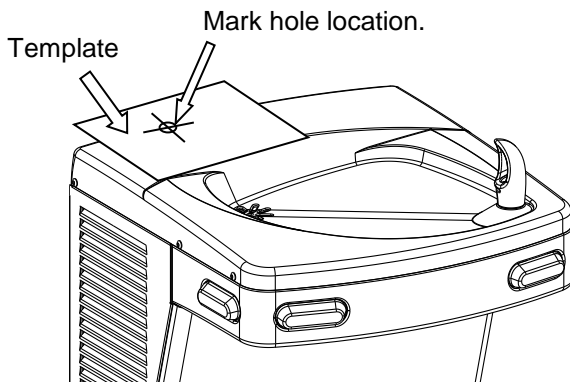
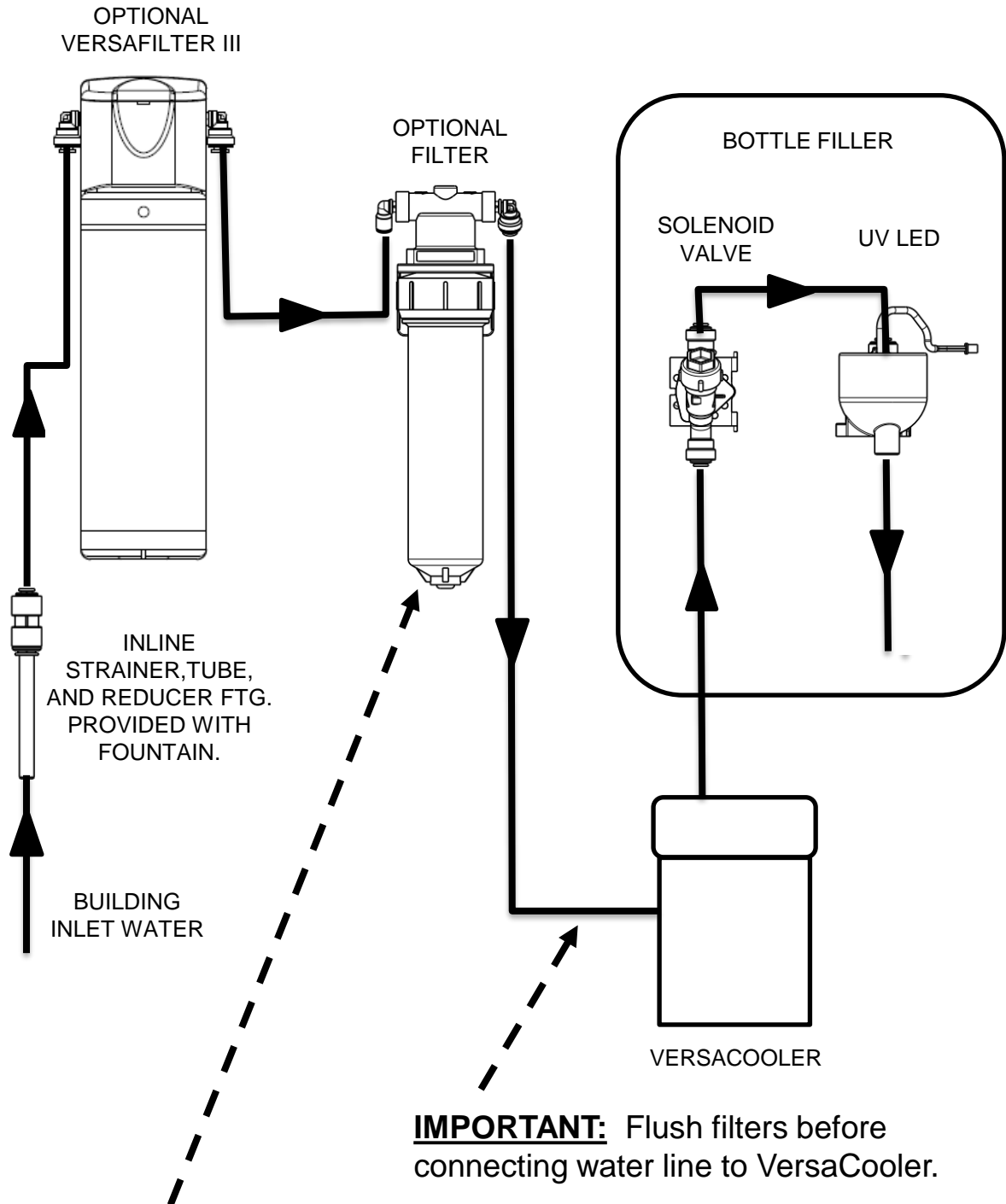Remove top from cooler by removing six, #15 torx head screws on sides of top.
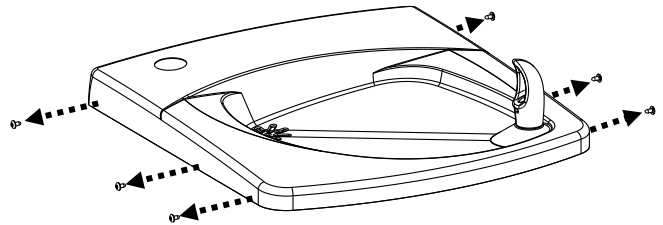
6. Using a step drill bit or 7/8" punch die, make a 7/8" hole through top. You may want to drill a pilot hole to get these started.

7. Install snap bushing into hole to protect tubing from being cut.

Drill

Install bushing

6

3-1/4"
from
edge of
paper

ALIGN THIS EDGE
WITH LEFT EDGE OF
COOLER TOP

2-1/8"
from
edge of
paper

PLACE THIS EDGE
AGAINST WALL

Mark this center point on the
top. Remove the top from the
cooler. Then create a 7/8"
diameter hole through the top
at the marked center point
(step drill bit or punch die).

USE THIS TEMPLATE TO MARK THE
HOLE LOCATION ON COOLER TOP

7

VersaCooler to Quasar Bottle Filler Plumbing Diagram

OPTIONAL
VERSAFILTER III

OPTIONAL
FILTER

BOTTLE FILLER

SOLENOID
VALVE

UV LED

INLINE
STRAINER,TUBE,
AND REDUCER FTG.
PROVIDED WITH
FOUNTAIN.

BUILDING
INLET WATER

VERSACOOLER

IMPORTANT: Flush filters before
connecting water line to VersaCooler.

IMPORTANT: When replacing filter cartridge. Turn off
water supply. Depressurize water lines prior removal of
filter housing from the quarter turn filter head assembly.

8

Two VersaCoolers to Quasar Bottle Filler Plumbing Diagram

BOTTLE FILLER

SOLENOID
VALVE

UV LED

OPTIONAL
VERSAFILTER III

OPTIONAL
FILTER

VERSACOOLER

VERSACOOLER

T-FITTING

IMPORTANT: Flush filters before
connecting water line to VersaCooler.

INLINE
STRAINER,TUBE,
AND REDUCER FTG.
PROVIDED WITH
FOUNTAIN.

IMPORTANT: When replacing filter cartridge.
Turn off water supply. Depressurize water
lines prior removal of filter housing from the
quarter turn filter head assembly.

BUILDING
INLET WATER

9

B: Connecting the water line

Note: If you are retrofitting the Bottle Filler to an existing cooler, follow the instructions starting on page 11.

For the single "Bottle Filler ready" cooler, the tube to connect to the Bottle Filler is found inside the access panel (the compressor compartment) or found inside the Bottle Filer. This tube supplies cold water from the cooling tank to the Bottle Filler.

¼" OD tube to connect to Versafiller

For split level "Bottle Filler ready" coolers, the tube to plumb in the Bottle Filler is packaged in the dummy unit or found inside the Bottle Filler.

Remove tube from bag.

First, remove plug from fitting on tank drain

Next, insert end of tube into fitting.

10

The tee and tube to the Bottle Filler are packaged with the PWEBQ unit. One branch of the tee will supply the valve on the dummy unit, the other branch of the tee will connect to the Bottle Filler.

If a filter is being installed, cut a piece of tubing about 3" long to insert optional flow switch right after filter and before tee. This allows Bottle Filler counter to accurately calculate amount of water passing through filter.

Tube to connect valve on dummy unit
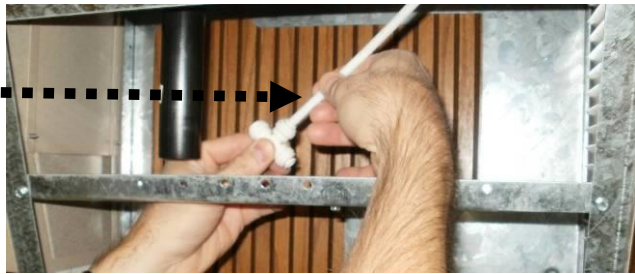
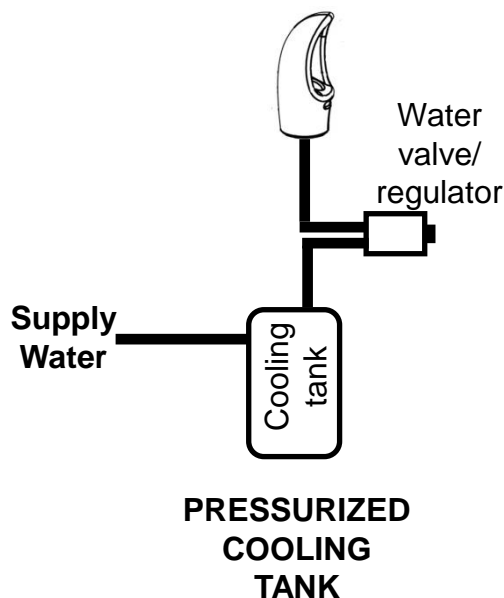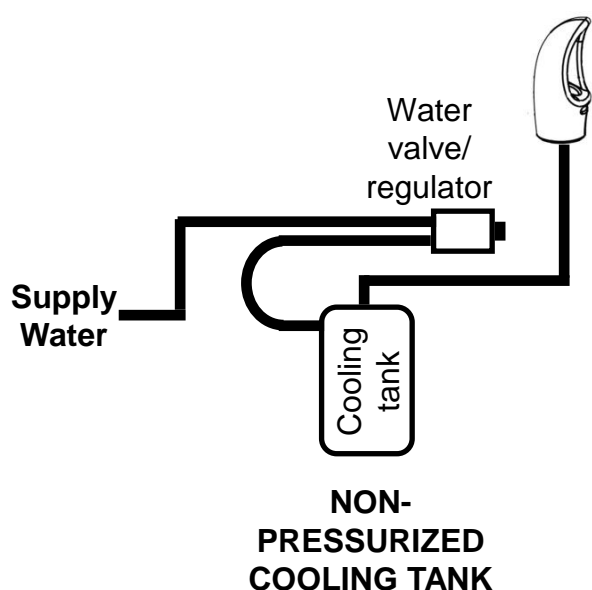Tube to connect Bottle Filler

Tube to connect chilled water to dummy unit and Bottle Filler

Go to Step 5 "Final steps for both product families:"

To retrofit the Versafiller to an existing unit, follow the instructions below:

If the cooling tank is non-pressurized, then go to the "Pressurizing the cooling tank" addendum section. Otherwise, proceed to step 1 below. Non-pressurized units are <u>single</u> units made since December of 2009. Refer to the schematic below to identify the system that you have.

Water valve/ regulator

Supply Water

Cooling tank

NON-PRESSURIZED COOLING TANK

Water valve/ regulator

Supply Water
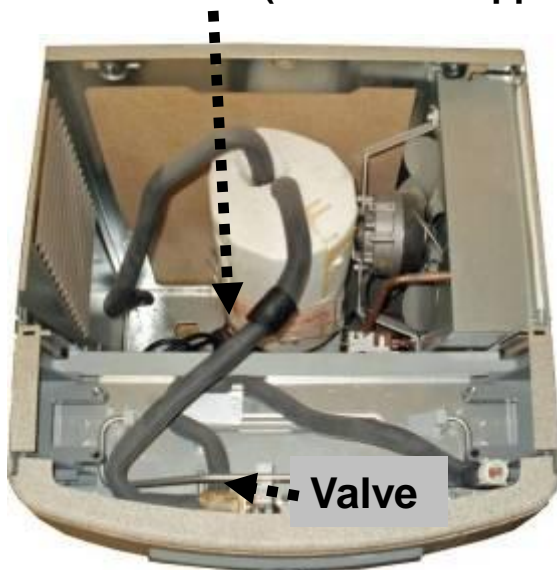
Cooling tank

PRESSURIZED COOLING TANK

1. With the cooler top removed, find the tube going from the cooling tank outlet to the valve. The TEE fitting (supplied) will need to connect between the cooling tank and valve.

Outlet Tube (insulated plastic)
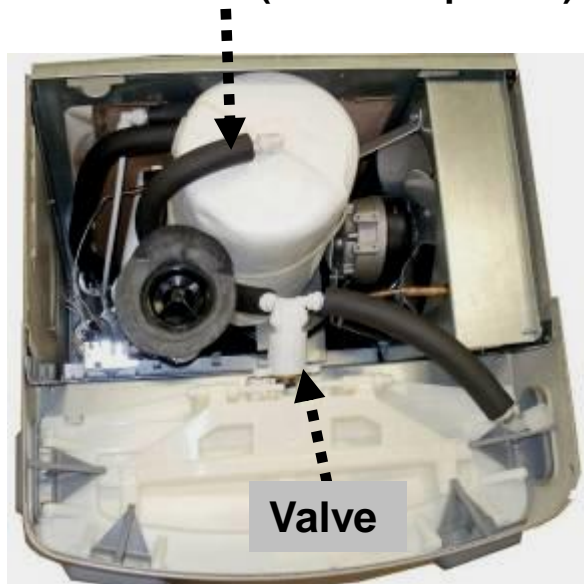
Outlet Tube (insulated copper)

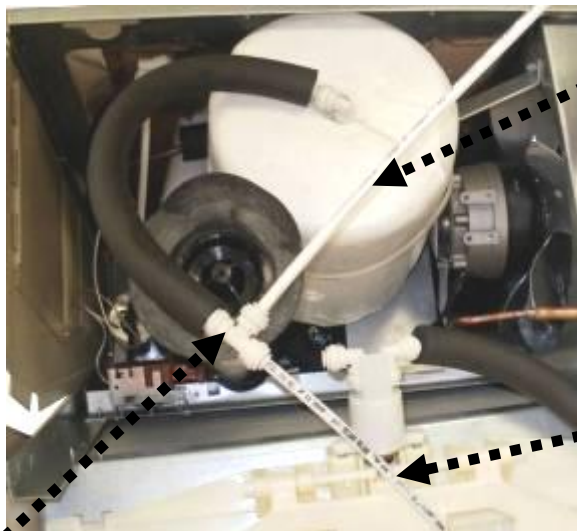

Valve

Valve

12

P8AC family

P8AM family

2. Disconnect tubing from the elbow on the valve.

3. Using the 38" piece of tubing provided, cut 6" and install it on the end of the TEE. Install the remaining tubing onto the branch of the TEE. Connect the other end of the TEE to the tank outlet tubing (tube that was disconnected from the elbow).

32" tubing

6" tubing

TEE

4. Route the TEE and tubing under the waste drain and connect the 6" length to the water valve elbow.

Water valve elbow

13

Go to Step 5 "Final steps for both product families:"

Remove tar tape

2. Remove tar tape from the insulation on the outlet tube.

3. Pull back insulation and cut the copper tube with a tubing cutter. Cut where there is at least 1 inch of *straight* tubing on each side of the cut.
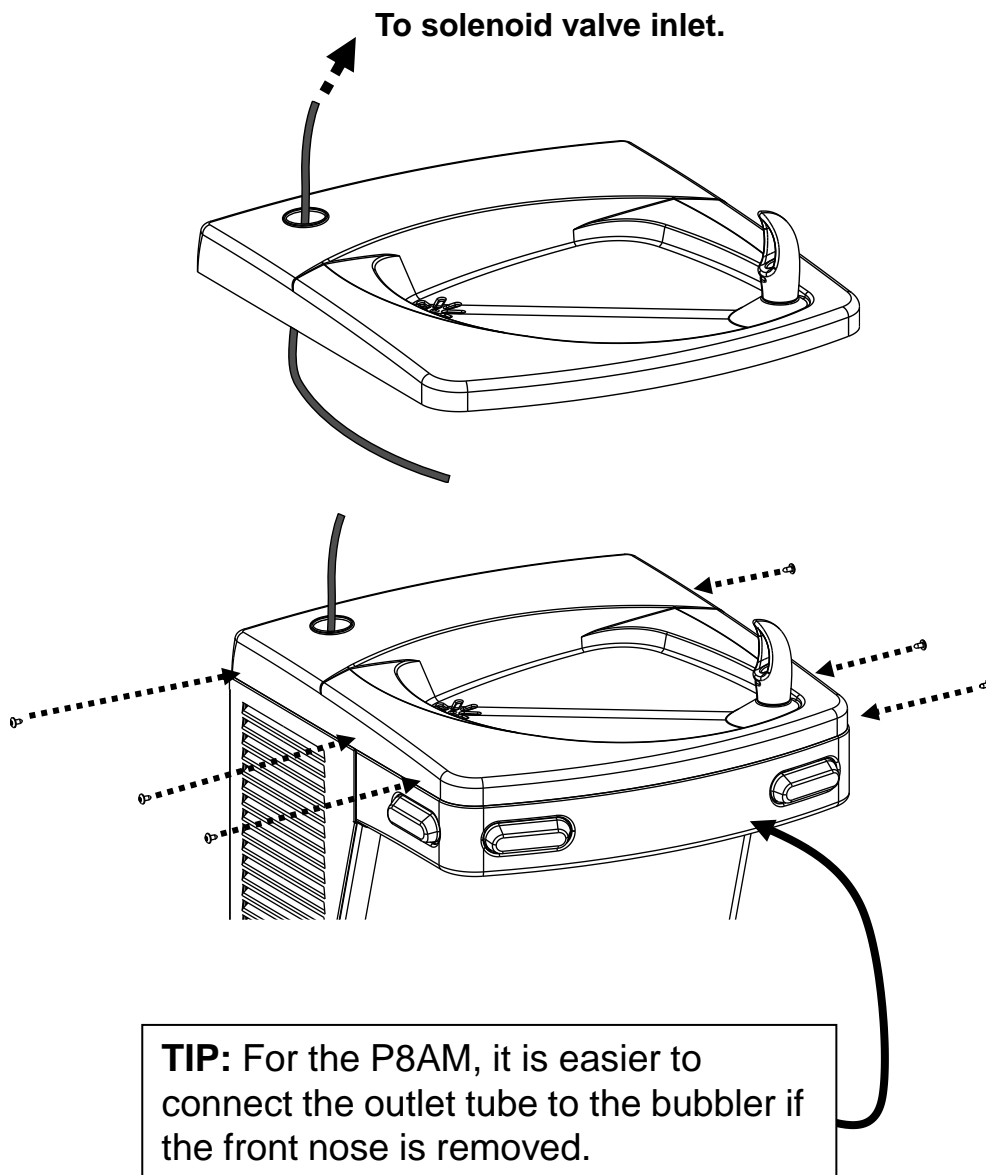
4. Install TEE fitting by connecting the copper tubing to each end. Then install the 32" piece of plastic tubing to the TEE branch.
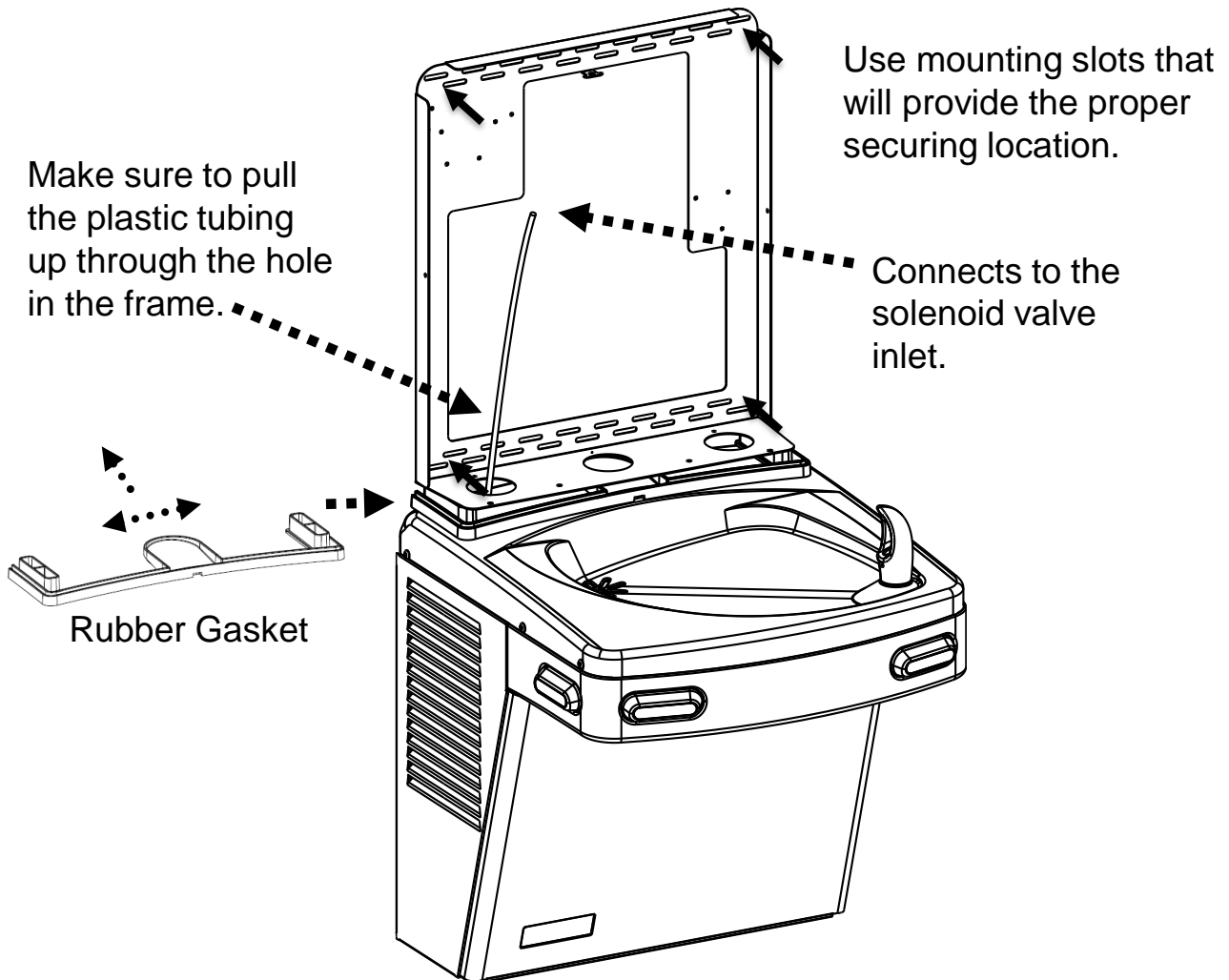
32" plastic tubing (supplied)

5.   Feed tube up through the top and attach the top to the cooler.

To solenoid valve inlet.

TIP: For the P8AM, it is easier to connect the outlet tube to the bubbler if the front nose is removed.

C: **Mounting the frame to the wall**

1. Place rubber gasket on top of the cooler so it is centered left/right and against the wall.

2. Set the wall frame onto the gasket. Center it left/right and push it against the wall and mark hole locations for wall fasteners. The gasket will set the frame at the proper height.

Use mounting slots that will provide the proper securing location.

Make sure to pull the plastic tubing up through the hole in the frame.

Connects to the solenoid valve inlet.

Rubber Gasket

3. Secure frame to the wall with fasteners (not provided). Pull plastic tubing up through the hole in the frame.

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4. Slide sponge tubing insulation over water line. Connect the tubing to the INLET of the solenoid on the back of the Hands-free Bottle Filler assembly.
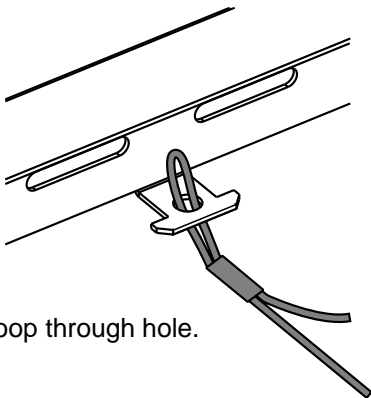
Connect tube to inlet of the valve

Plastic tubing

Sponge tubing insulation
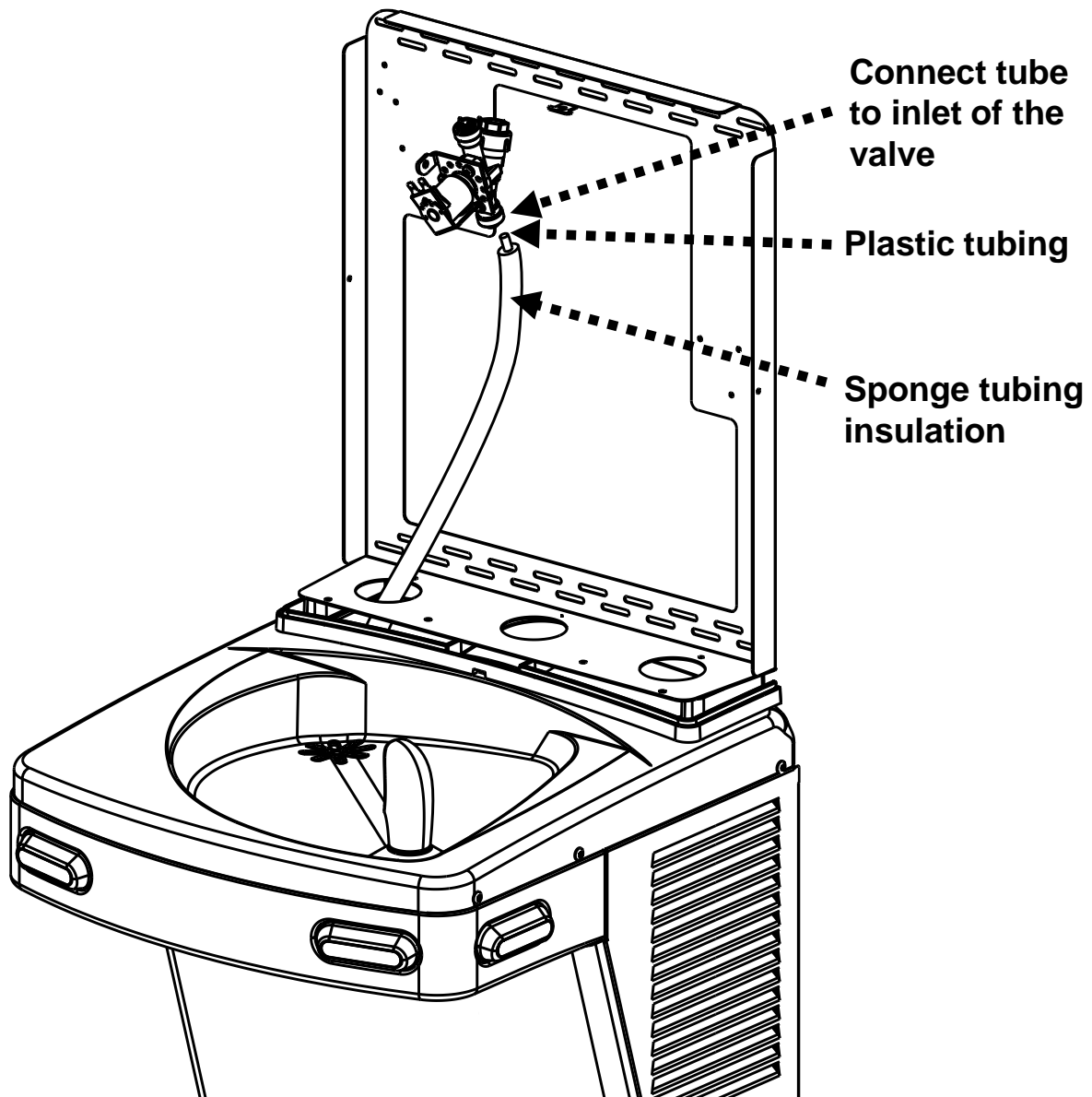
D: Attaching the Tether

5. Install bottle filler tether with the steps below.

Attach the tether line assembled to the bottle filler dispense bracket to the cleat on the mounting frame.
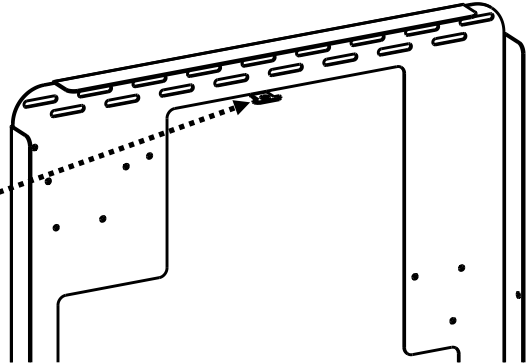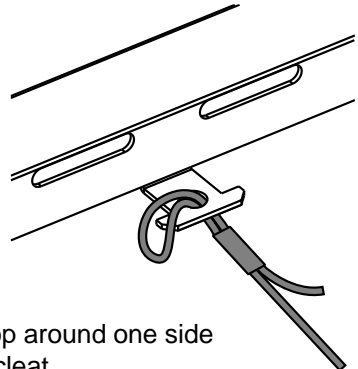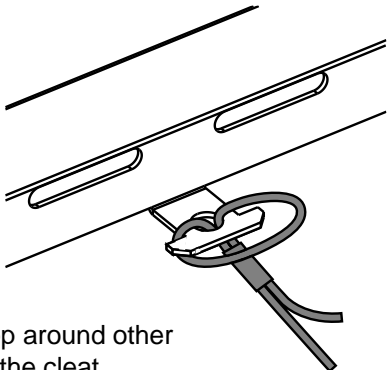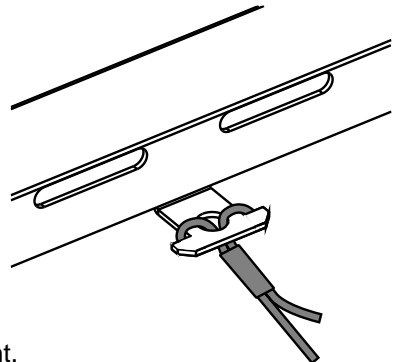
1.

Push loop through hole.

2.

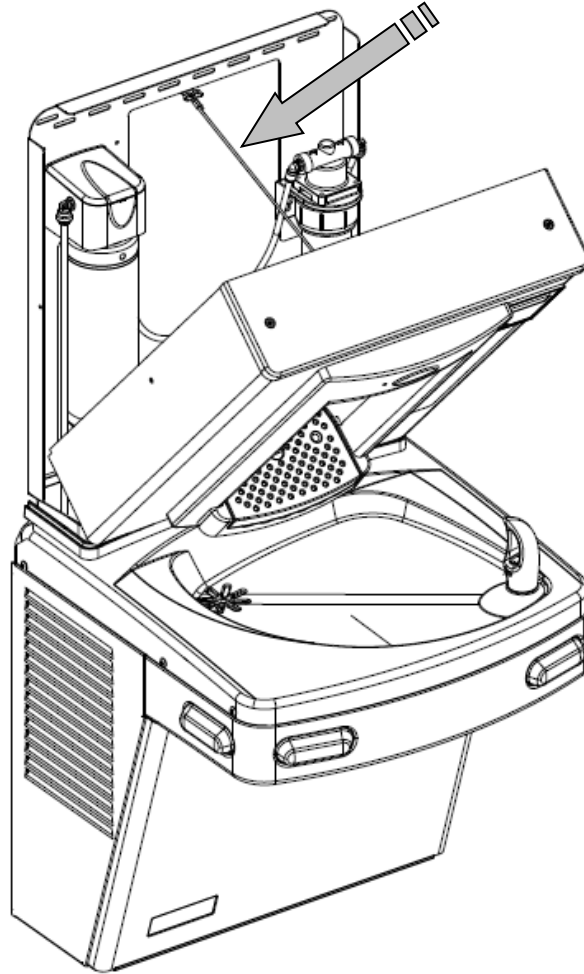Put loop around one side of the cleat.

3.

Pull loop around other side of the cleat.

4.

Pull tight.

The tether keeps the bottle filler secured to the frame when changing the filter, if installed. Make sure the tether is installed properly to avoid accidental damage to the unit.

6. Before the Bottle Filler cabinet is set into place, feed the terminals on the power supply power cord and the long green ground wire through the bushing on the cooler top.

7. Connect male terminals on the bottle filler power supply to female terminals on power cord. **DO NOT** plug in the bottle filler power cord in the electrical outlet at this time. **SEE STEPS 11-13** when to plug in bottle filler power cord.

8. Attach the long green ground wire to cooler power cord ground located on cooler frame or to electrical box ground.

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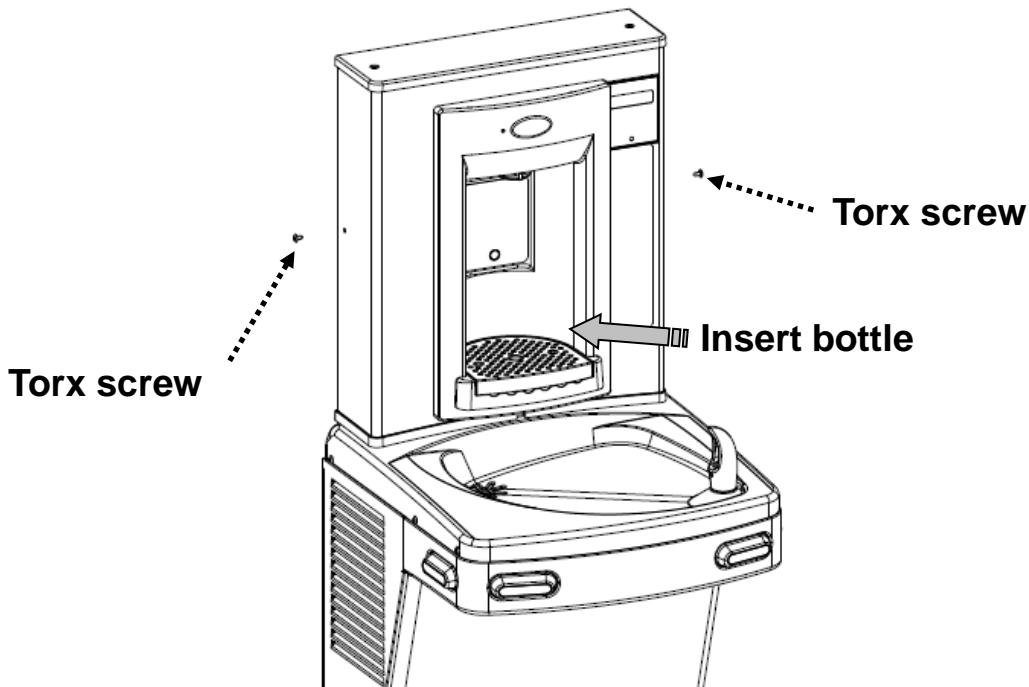9. <u>MAKE SURE the cabinet fits into the *groove* in the rubber gasket on both sides and front of the wrapper</u>.

Bottle Filler cabinet

Groove in the gasket
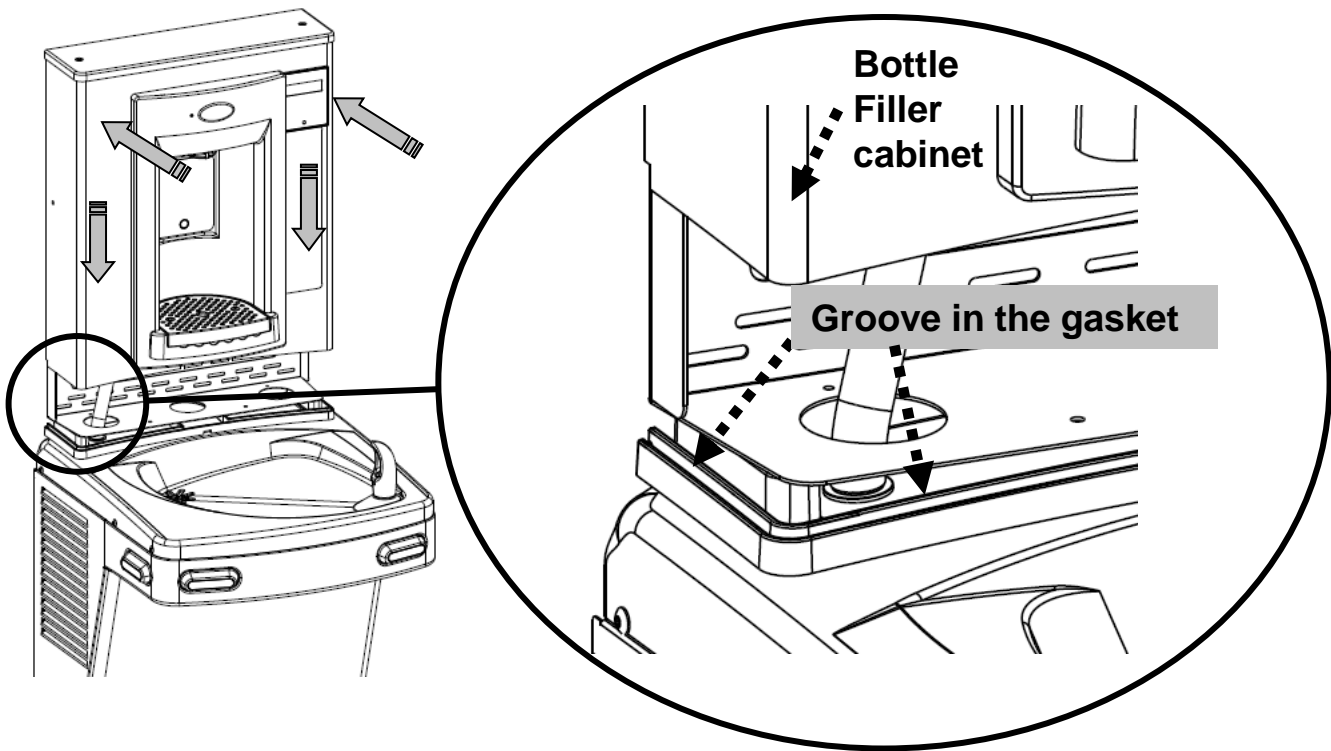
<u>See next page to secure Bottle Filler assembly to frame</u>

<u>with torx screws</u>.

Torx screw

Insert bottle

Torx screw

10. Attach Bottle Filler assembly to the frame using two (2) torx screws. Remove the Top Cap and two (2) torx screws used for mounting.

11. IMPORTANT:

REVIEW Section 3: QUASAR UVC-LED OPERATION before proceeding. Failure to follow Section 3 can damage the QUASAR.

   a. Turn ON water supply and check for leaks.

   b. Purge air from drinking fountain bubbler(s) by activating pushbutton(s) or electrical eye sensor.

10. Plug bottle filler cord into the electrical outlet. The bottle filler will auto-calibrate and be set up specifically for that installation. Refer to the program guide on next page for further programming. Access programing Pushbutton through top of Bottle Filler.

11. Place bottle in the bottle filler alcove to dispense water. The Water Dispenser sensor will run 20 seconds and shut-off. Do this 2 or 3 times until a steady stream of water dispenses.

12. If everything works correctly, place the Top Cap onto the Bottle Filler and install the two (2) torx screws to fasten it in place. Otherwise, calibrate the sensor per the instructions on the next page.

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INSTALLATION COMPLETE

Factory default program settings are:

- Units - Gallons
- Unfiltered unit
- Flow Meter = Rate Selected
- Filter Capacity = 1250 gallons [4731 liters] for a VersaFilter

- Bottle Count = 0.5L (1 Bottle)
- Flow Rate = 1.2 GPM
- 20 second maximum dispense time
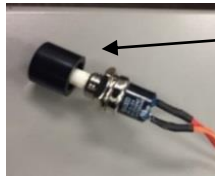
Pushbutton

To change the program settings, follow these steps:

| *Display*	*Action*
000000000 BOTTLES REUSED (Home Screen)	Depress button for 3 seconds to enter into the following menu settings and make changes. Note: at anytime it will exit menu and save settings when idle for 10 seconds (no button press) and revert back to Home Screen.
LTR/GAL GAL	Depress button 3 seconds to change from Gallons to Liters, or momentary press to advance to next menu.
UNFILT/FILT? UNFILT UNIT	Depress button 3 seconds to change from Unfiltered to Filtered unit, or momentary press to advance to next menu.
FLOW METER? RATE SELECTED	Depress button 3 seconds to change from Rate Selected to (Flow) Meter Enabled, or momentary press to advance to next menu. Not included on all models.
SELECT RATE 1.2 GPM UNIT	To change flow rate, momentarily depress button to change whole gallon digit. Hold button 3 seconds to advance to TENTHS of gallon digit. Depress momentarily to change the digit. Hold button 3 seconds to advance to the next menu.
RESET 00000000 GALLON CNT [LTR COUNT]	Depress button for 3 seconds to reset Gallon or Liter count, or momentary press to advance to next menu.
FILT CAPAC OF 1250 GAL [4731 LTR]	Depress button for 3 seconds to change filter capacity to 3000 GAL [11355 liters] for Versafilter II or Galaxi green filter. Or momentary press to advance to next menu.
3 sec rule? 0.5L	Depress button for 3 seconds to switch from 0.5L bottle to 3 sec rule, or momentary press to advance to next menu. (The 3 Sec rule increases the bottle count based on a 3 second dispense.)
Reset 00000000 BOT COUNT?	Depress button for 3 seconds to reset (Home Screen) BOTTLES REUSED count, or momentary press to advance to next menu.
Bot Filler Set_time: 20 s	Depress button for 3 seconds to change maximum dispense time to 10, 20 or 30 seconds, or momentary press to advance to next menu.
RUN CAL AGAIN?	Depress button 3 seconds to run calibration again, or momentary press to advance to next menu.

The water should already be turned OFF and the power disconnected.

Unit as it appears with top removed

STEP 1

Unplug un-insulated water line from water valve inlet (quick-connect elbow located left side of water valve facing the front of the cooler). Set tubing aside (careful to not contaminate water contact end).
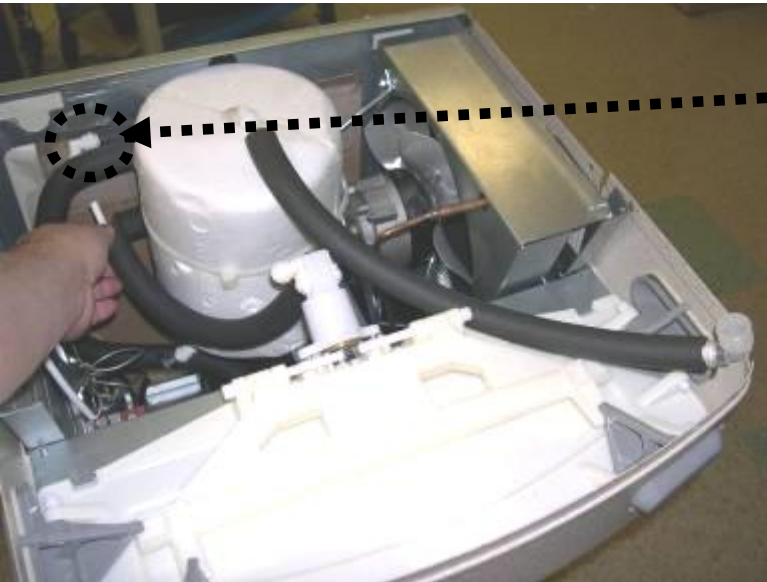
STEP 2

Unplug tubing from quick-connect elbow leading to cooling tank inlet.

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STEP 3

Plug un-insulated tubing that was removed in step 1 into quick-connect elbow leading to the cooling tank from step 2.

STEP 4

Unplug tubing that is connected to the water valve outlet (quick-connect elbow located on the right side of valve facing the cooler).

STEP 5

Connect tubing from step 4 to quick-connect elbow on the left side of the valve.

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Step 6

Unplug quick-connect
tubing from the
cooling tank outlet.
Do not set it down.

Step 7

Using tubing removed
in step 6, plug into
quick-connect elbow
on the right side of the
valve. (be sure to route
the tubing under
existing tubing
installed in step 4 as
shown)

Step 8

Using tubing that is
connected to the
quick-connect elbow
left side of valve (done
in step 4), and plug the
other end into the
quick-connect fitting at
the top of the cooling
tank.
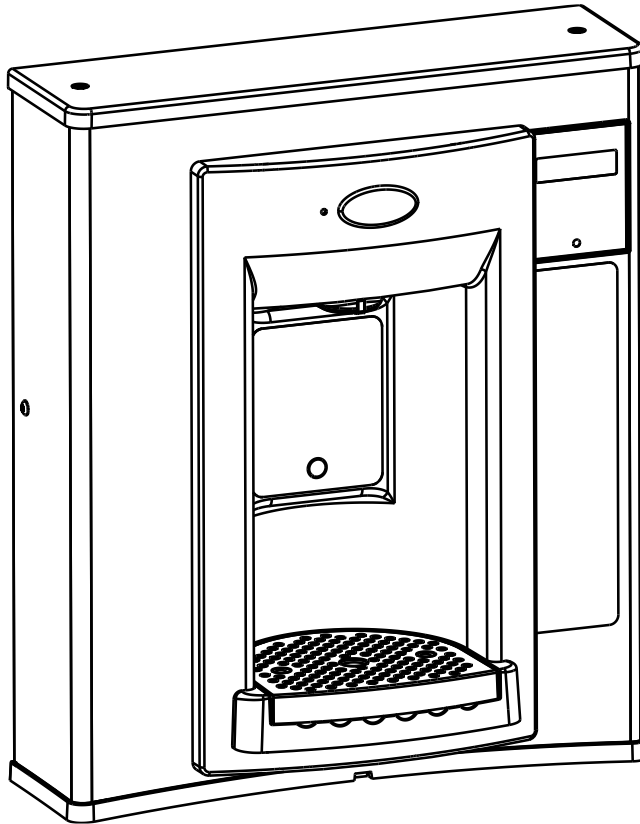
Return to Section 3 B 25
"Connecting the water line"

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