

A151-VR-BF4 Series
Oval Bowl Barrier-Free Wall Mount
Drinking Fountain with Sensor Activated Bottle Filler



A151400F-VR-BF4 / A151400S-VR-BF4

TECHNICAL ASSISTANCE TOLL FREE TELEPHONE NUMBER:
1.800.743.8259

Technical Assistance E-Mail: Fieldservice@acorneng.com

NOTES TO INSTALLER:

1. Please leave this documentation with the owner of the fixture when finished.
2. Please read this entire booklet before beginning the installation.
3. Check your installation for compliance with plumbing, electrical and other applicable codes.

For current Warranty click hyperlink [Product Warranty](#) or visit: www.murdockmfg.com/terms-and-warranty

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COMPLIES WITH
STANDARDS



NSF/ANSI 61



Federal
Public Law
111-380
(No Lead)



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SINCE 1853

Member of

MORRIS GROUP
INTERNATIONAL

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IMPORTANT

This fixture is intended to dispense water that has been lowered in temperature, but otherwise remains unchanged by the materials in the drinking fountain. It is common for electrical equipment to be grounded to water lines either within a structure or away from it. Every attempt should be made to prevent this kind of grounding from generating electrical feedback into the drinking fountain creating electrolysis. Electrolysis will cause a metallic taste or cause water metal content to increase.

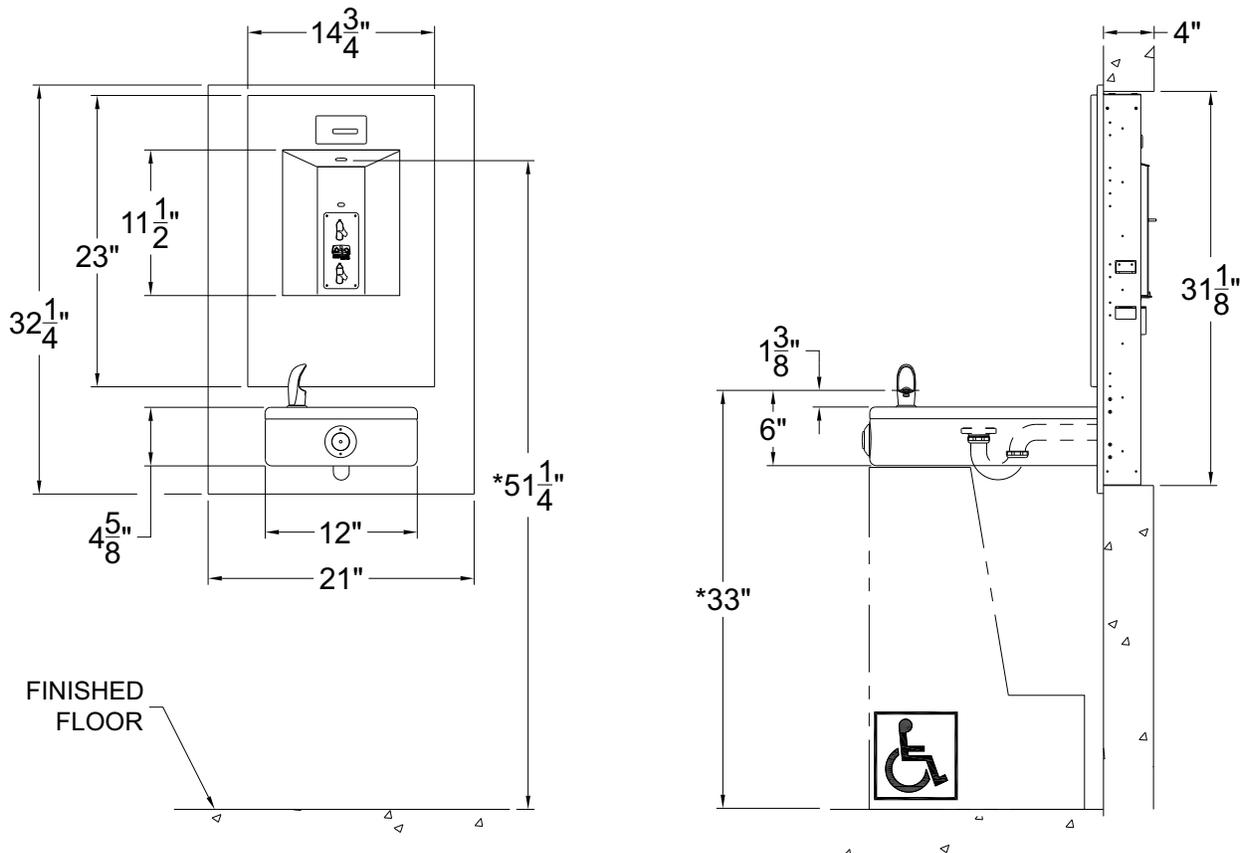
NOTICE

A dielectric coupling must be used to connect the drinking fountain to the water supply. A nonmetallic coupler is furnished with this water cooler to meet this requirement.

ROUGHING-IN AND DIMENSIONAL DRAWING

Prior to roughing consult with local, state, and federal codes for proper mounting height.

A151400S-VR-BF4 Wall Mounted Drinking Fountain



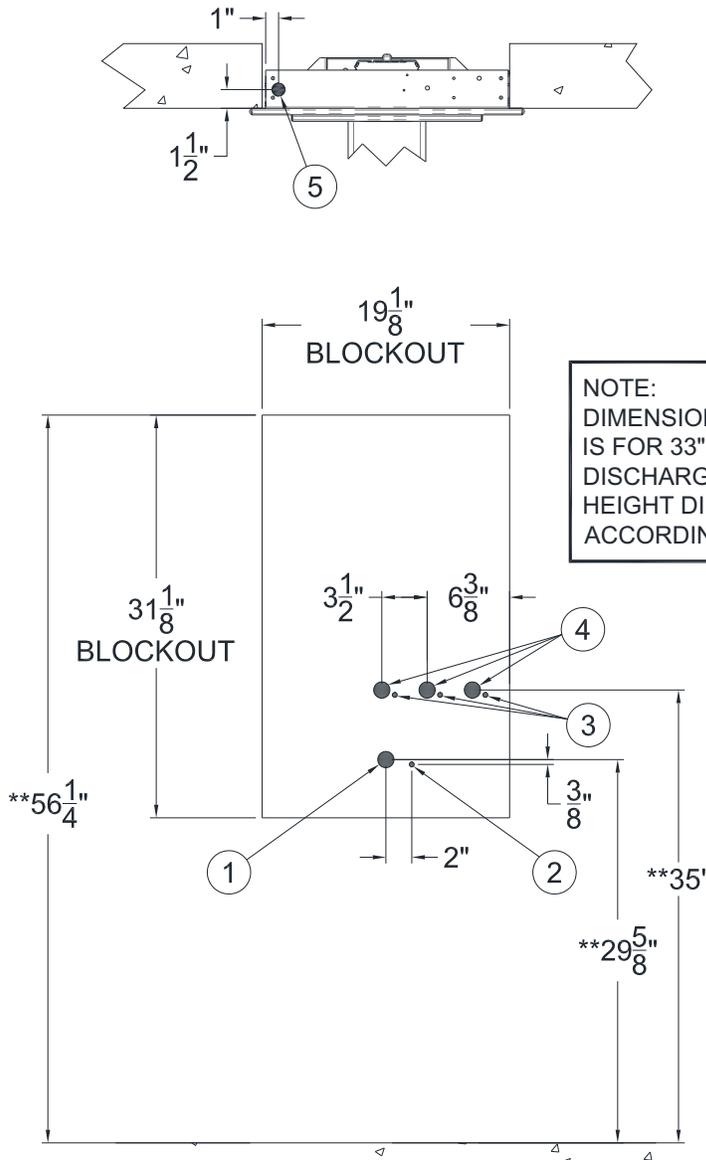
GENERAL NOTES:

1. ALL DIMENSIONS ARE IN INCHES [MM].
- *2. DIMENSIONS SHOWN ARE FOR RECOMMENDED ADULT HEIGHT. ADJUST VERTICAL DIMENSIONS AS NECESSARY TO COMPLY WITH FEDERAL, STATE & LOCAL CODES.

NOTES: Dimensions shown for Adult ADA compliant installation. For Child ADA compliant parallel approach installation, decrease height of installation by 3 inches. Provide clear floor space as required. Adjust vertical dimensions as required to comply with federal, state, and local codes.

A1514000S-VR-BF4 Refrigerated Wall Mounted Drinking Fountain Inlet & Outlet Rough-Ins

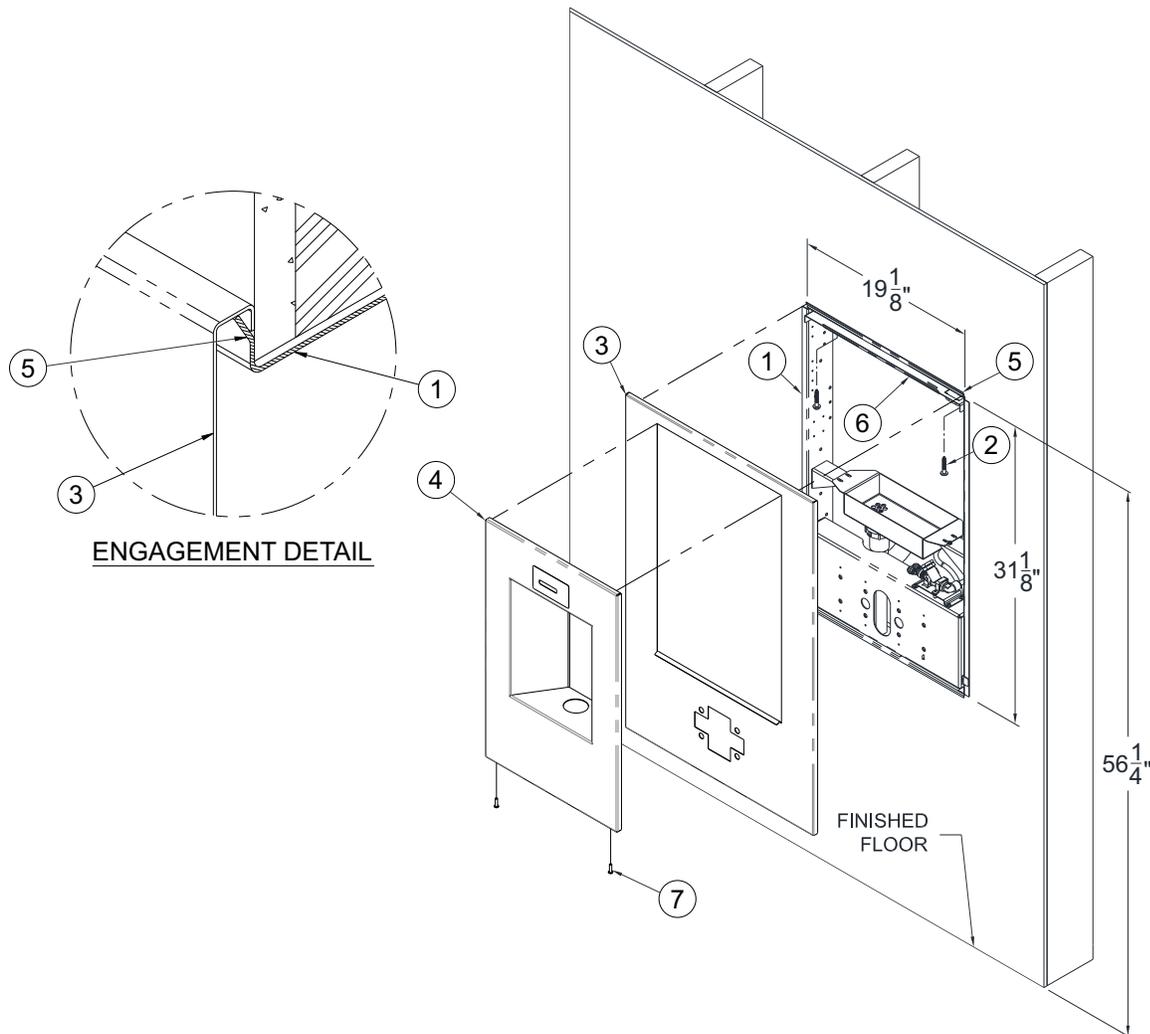
Note: There are no mounting changes to be made for -SO models.



- ① 1-1/4" O.D. DRINKING FOUNTAIN WASTE OUTLET
- ② 3/8" NCT DRINKING FOUNTAIN SUPPLY INLET
- ③ ALTERNATE 3/8" NCT BOTTLE FILLER SUPPLY INLETS
- ④ ALTERNATE 1-1/4" O.D. BOTTLE FILLER WASTE OUTLET
- ⑤ ELECTRICAL SERVICE ROUGH

DIMENSIONAL DRAWING

Prior to roughing consult with local, state, and federal codes for proper mounting height.



INSTALLATION INSTRUCTIONS:

- A- PROVIDE 19-1/8" WIDE x 31-1/8" TALL WALL OPENING AT APPROPRIATE HEIGHT. PROVIDE STRUCTURAL SUPPORT AROUND INSIDE OF THE OPENING FOR FRAME ANCHORING.
- B- CAREFULLY REMOVE BI-LEVEL MOUNTING FRAME (1) AND PANEL FROM PACKAGING PREVENTING DAMAGE.
- C- CENTER BOTH FRAMES WITHIN WALL OPENING WITH SIDE, TOP, AND BOTTOM LIPS OVERLAPPING OUTSIDE THE OPENING AND UP AGAINST FINISHED WALL FACE. SECURE TO WALL THROUGH THE SIDES, TOP AND BOTTOM USING HARDWARE (2) BY OTHERS ENSURING 16" CENTERLINE DIMENSION LEFT-TO-RIGHT.
- D- WHEN THEY ARRIVE, CAREFULLY REMOVE THE TRIM PANEL (3) AND BOTTLE FILLER PANEL ASSEMBLY (4) WITH SCREWS (7) FROM THE PACKAGING PREVENTING SCRATCHING AND DAMAGE.
- E- TRIM PANEL (3) INSTALLS BY ENGAGING OVER TOP JOGGLED OUTER FRAME (5) FLANGE AS SHOWN IN ENGAGEMENT DETAIL.
- F- BOTTLE FILLER PANEL ASSEMBLY (4) INSTALLS BY ENGAGING OVER TOP JOGGLED INNER FRAME (6) FLANGE. INSTALL LOCKING SCREWS INTO CAPTIVE NUTS (7) (PROVIDED).
- G- ASSEMBLY OF DRINKING FOUNTAINS THROUGH TRIM PANEL (3) INTO MOUNTING POINTS HELPS SECURE PANEL.

IMPORTANT:

1. Water Supply Service Stop Valve, Water Connections and Electrical Connections to be supplied by others in accordance with local codes.
2. Waste is 1-1/4" Outer Diameter. Drinking Fountain water inlet is 3/8" Outer Diameter copper tube. Bottle Filler water inlet is 3/8" Outer Diameter copper tube. Water line by others.
3. Completely flush supply lines of all foreign debris before connecting to fixture. Optional water filter (WF1), is available should any problems with taste, odor, color, or sediment arise from the water supply.
4. Do NOT solder tubes inserted into the bottle filler or the fountain strainer as damage to the o-rings on the push-in fittings may result.
5. All burrs must be removed from outside of cut tubes before inserting into strainer or other components.
6. Provide electrical service to J-Box to power sensor and solenoid valve.
7. This unit must be grounded per the requirements of applicable electrical codes.
8. Fixture operates within water pressure range of 174 kPa (25 psig) to 724 kPa (105 psig). Acorn Engineering will not warranty chiller damaged when connected to supply lines with flow pressure lower than 174 kPa (25 psig) or higher than 724 kPa (105 psig). A pressure regulator must be furnished by others on supply line if inlet pressure is greater than 724 kPa (105 psig).
9. *Per UPC 609.10-All building water supply systems in which quick acting valves are installed shall be provided with devices to absorb the hammer caused by high pressure resulting from the quick closing of the valve. These pressure-absorbing devices shall be approved mechanical devices. Water pressure-absorbing devices shall be installed as close as possible to the quick closing valve.*

PRIOR TO INSTALLATION:

1. Read all installation instructions carefully, before proceeding.
2. Carefully remove all fixture components from packaging, preventing scratching or damage. Inspect fixture and all parts from damages and all parts are bolted on.
3. Provide mounting surface, sufficient to support the fixture and loads on the fixture.
4. Provide rough-ins as shown on the roughing-in and dimensional drawing, including water supply, drain pipe and gravel drain well. (See rough-in details)
5. Receptacle(s) must be wired to a GFCI protected circuit. Fixture must be earth grounded per NEC (National Electrical Code).
6. Completely flush water supply lines of all foreign debris, before connecting to the fixture.

DRINKING FOUNTAIN INSTALLATION:

1. Insert mounting frame into the rough-in block out and secure using 1/4"-20 UNC mounting hardware (Provided by Others).
2. Hang trim panel on mounting frame. Note: The included 1" brackets do not get used with this installation and the plastic spacers are typically not required and can be discarded.
3. Install the four threaded studs into the Wall Mounting Frame
4. Remove the drinking fountain top by taking out the drain screw and lifting at the front while pulling forward. Disconnect bubbler tube. Set top aside in a safe place where it will not be damaged. Place the screw in a secure location where it will not be lost.
5. Slide Fixture over studs and secure with nuts and washers.
6. Assemble P-trap to drain adapter and then assemble to unit with Phillips screws.
7. Make-up 1-1/4" outer diameter waste connection.
8. After thoroughly flushing the 3/8" outer diameter supply line, connect water supply to the multi-line "Y" strainer assembly. From multi-line "Y" strainer assembly, connect to drinking fountain bubbler.
9. Place drain gasket on drain adapter. Reconnect bubbler tube. Reassemble top to unit by engaging back clip and securing with screw.

BOTTLE FILLER INSTALLATION:

1. With drinking fountain installed, connect water supply line from multi-line “Y” strainer assembly to bottle filler.
2. Loosen slip nuts to orientate P-trap to desired direction then tighten slip nuts and make up 1-1/4” O.D. waste connection.
3. **FOR -BF4 ONLY** Make up power connections to the ground, neutral & hot within the electrical box.

NOTE: BEFORE PERFORMING STEP 4 REFER TO ELECTRICAL INSTALLATION.

4. Test for leaks and proper operation, and then install the bottle filler panel using the water filler bracket and secure the bottle filler by tightening the screws under the bottle filler.

DRINKING FOUNTAIN START UP:

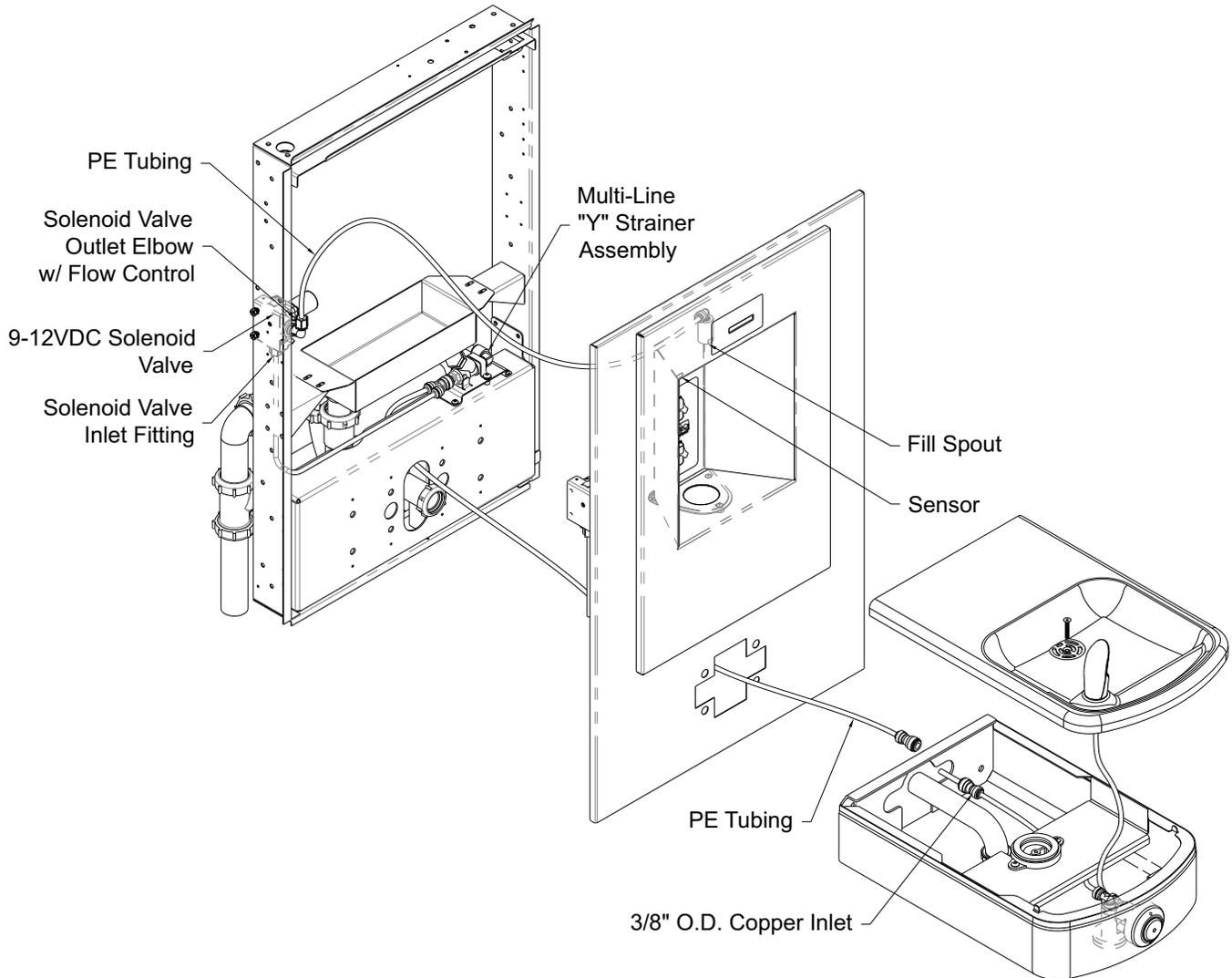
1. Before connecting power supply, but after thoroughly flushing the supply line, turn on building water supply and check all connections for leaks.
2. Air within the drinking fountain system or the structure supply piping will cause an irregular bubbler outlet stream until purged out by incoming water. Covering the bubbler with a clean cup (or similar object) is recommended when first activating drinking fountain to prevent excessive splashing. Depress front push pad until steady water stream is achieved.
3. If water flow requires adjustment, insert a slotted narrow blade screwdriver in the hole centered on the underside of the fixture in the knee clearance area up to the flow regulator. Turning clockwise will increase flow and turning counterclockwise will decrease flow.
4. Recheck all water connections with water flowing through system.

BOTTLE FILLER START UP:

1. Air within the bottle filler system or the structure supply piping will cause an irregular spout outlet stream until purged out by incoming water. Press and hold pushbutton until steady water stream is achieved.
 - SENSOR OPERATED:** Hold container to be filled just below the sensor in the center of the filler spout and then move the container upward and water flow will start automatically. When the container is almost filled, lower the container below the sensor until the water stops flowing. (See label on the bottle filler.)

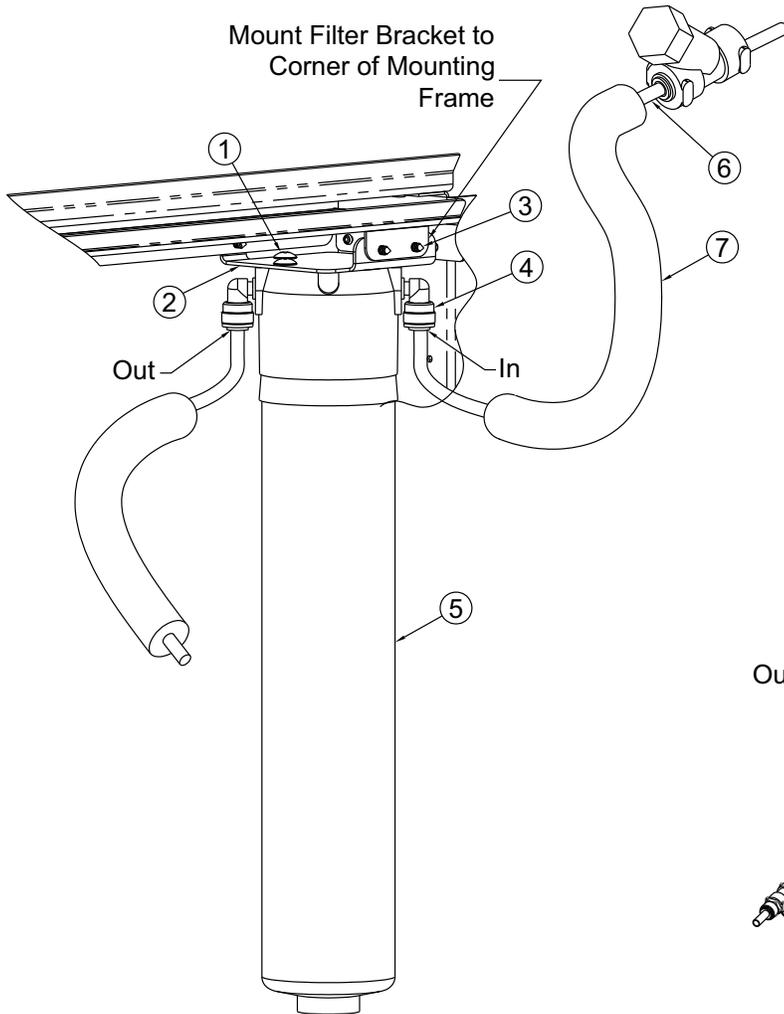
WATER TUBING CONNECTIONS:

NOTE: Insulation on all water tubes not shown (all PE water tubes are insulated).



OPTIONAL -WF1 WATER FILTER

See the following page for models with -WF1 Water Filter (A151-VR-BF4-WF1)



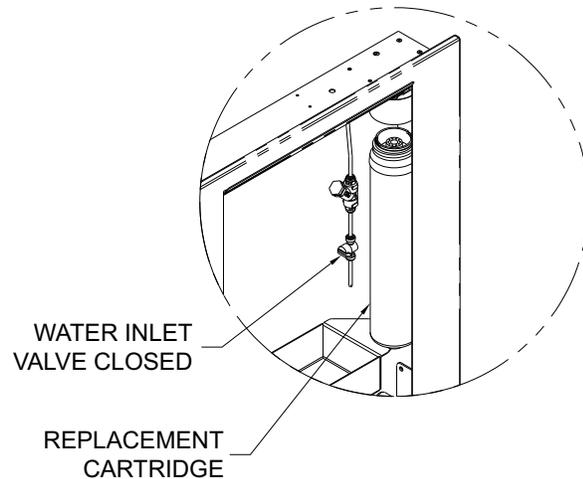
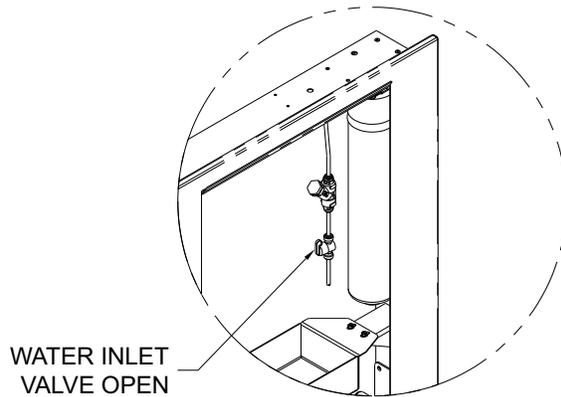
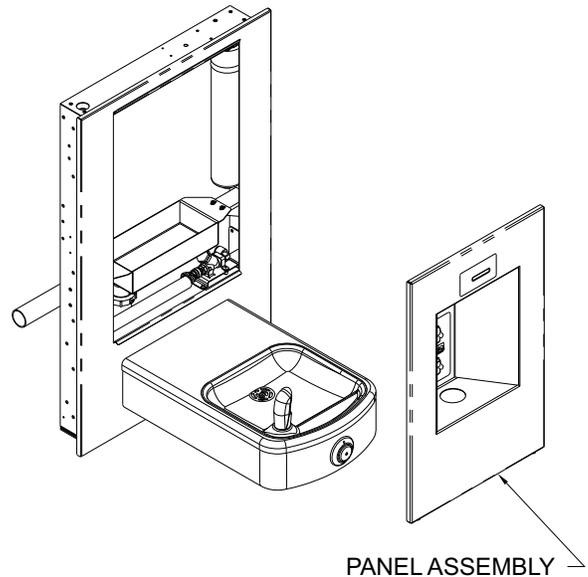
**FILTER MOUNTING
DETAIL
(BACKVIEW)**

ITEM	PART NUMBER	DESCRIPTION
1	0250-006-000	#10 x 5/8" Phillips Truss Head Screw
2	7014-035-199	Water Filter Bracket
3	0124-031-000	#8 x 3/8" Hex Washer Head Screw
4	1895-709-000	Elbow , 1/4" Push-In x 1/4" Stem
5	7012-311-000	WF1 Filter 1500 Gallon
6	2169-000-000	Tubing, 1/4" O.D. LLDPE, (Blue)
7	7012-055-000	Foam Pipe Insulation

OPTIONAL -WF1 WATER FILTER INSTALLATION

FILTER CARTRIDGE REPLACEMENT:

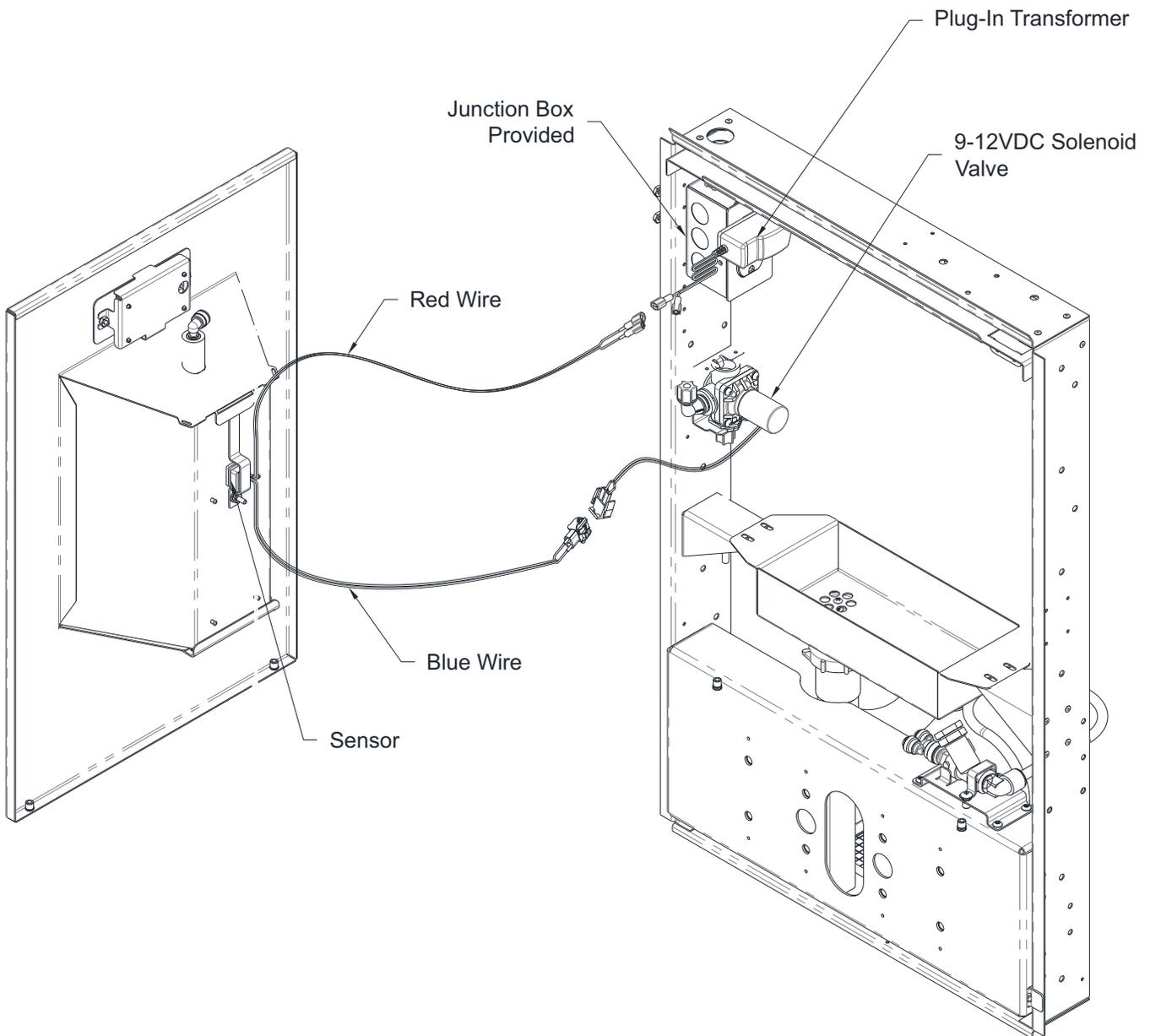
1. Remove panel assembly, this allows access to the filter and the inlet valve (provided by others). Turn valve knob 1/4 turn clockwise to close.
2. With the filter assembly secured on the unit, hold the cap firmly, turn the replaceable cartridge filter counterclockwise to remove.
3. Remove and replace the cartridge turning clockwise to secure.
4. Turn inlet 1/4 turn knob 1/4 turn counterclockwise to open and test for leaks and proper operation before remounting panel assembly to fixture.



ELECTRICAL INSTALLATION:

NOTE: Plug in power is a standard feature.

1A. Plug-In Operation: Plug transformer provided into GFCI protected electrical service, used by the semi-recessed bottle filler. Plug in transformer to power supply and connect to red sensor wire.



OPTIONAL -BCD BOTTLE COUNTER DISPLAY

See the following page for models with -BCD Bottle Counter Display (A151-BF4-BCD)

BOTTLE COUNTER ADJUSTING & RESETTING INSTRUCTIONS:

NOTE: Bottle Counter Has Multiple Functions

Reset/ Mode Button

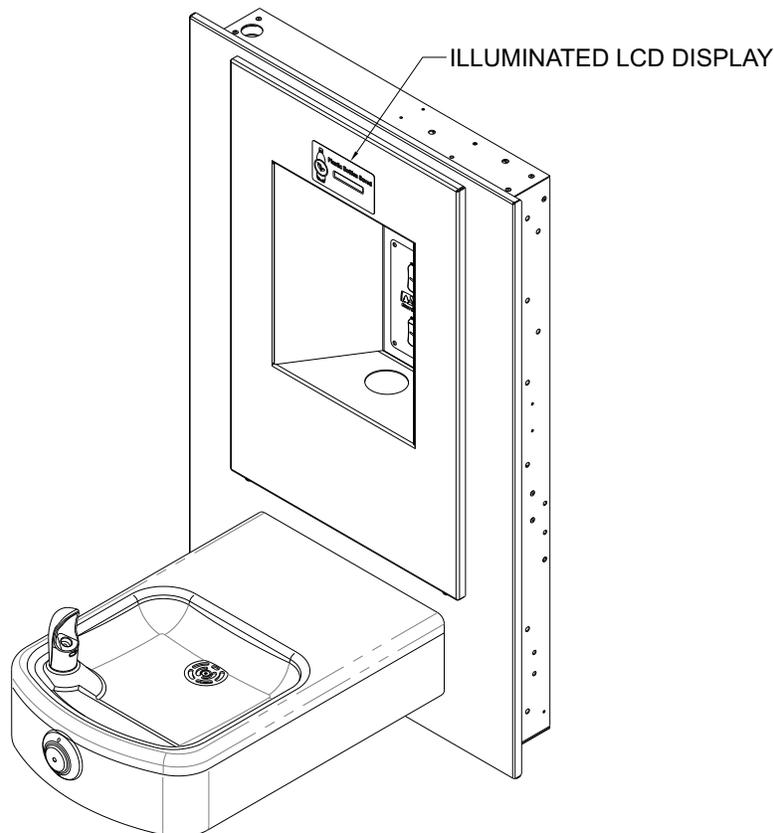
- Counts refilled bottles, otherwise purchased
- Adjustable for Units with and without filters
- “REPLACEMENT FILTER” alert function
- Alert reset, when filter is replaced

Description

Illuminated LCD display, counts bottles, and has a filter replacement alert function

Bottle Counting Function

The software applies a flow volume of approximately 16.9 fl oz (volume in standard size plastic water bottle) to each bottle counted. If the flow volume is less than 16.9 fl oz there will be no count but the volume will accumulate, so that part way through the next cycle the total bottle count will change.



OPTIONAL -BCD BOTTLE COUNTER DISPLAY

See the following page for models with -BCD Bottle Counter Display (A151-BF4-BCD)

FILTER REPLACEMENT FUNCTIONS:

NOTE: When the volume accumulates to 1500 gallons (recommended maximum filter flow volume) the “REPLACE FILTER” alert will appear on the display every time the bottle filler is activated.

Counter Modes

Located on the back of the display you will find the reset button for the mode settings. The Reset/Mode selection button is accessible by removing the bottle filler panel assembly, then locate the large hole in the back of the display mounting bracket. Use your finger or nonconductive implement to depress the Reset/Mode Selection Button.

!!!DO NOT USE SHARP OR METAL IMPLEMENTS!!!

With this reset button, you are able to indicate whether or not the unit has a filter or does not have a filter. The reset button will also take away the “REPLACE FILTER” alert once the filter has been replaced.

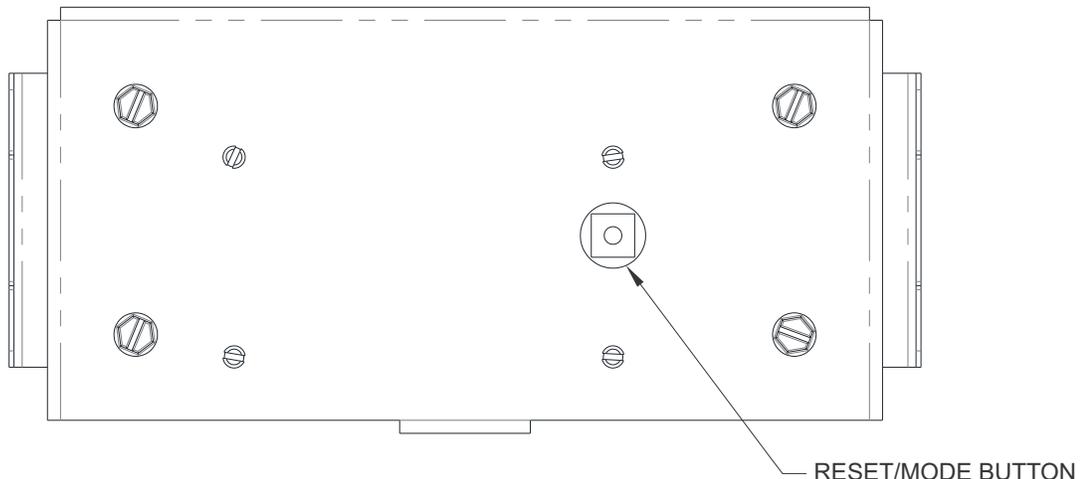
Systems With or Without Filter

- Depress the Reset/Mode selection button for 6 Seconds, the number of seconds will count up on the display.
- At the end of the 6 seconds, “FLTR YES” or “FLTR NO” **WILL APPEAR** on the display.
- “FLTR YES” means that there is a filter in the system and a “REPLACE FILTER” alert **WILL APPEAR** on the display when the maximum filter flow volume is reached.
- “FLTR NO” means that there is no filter in the system and a “REPLACE FILTER” alert **WILL NOT APPEAR** on the display.
- Release button when the option required is on the display (Filter Yes or No)

CLEARING “REPLACE FILTER” ALERT:

NOTE: This Function only applies if the system as a filter

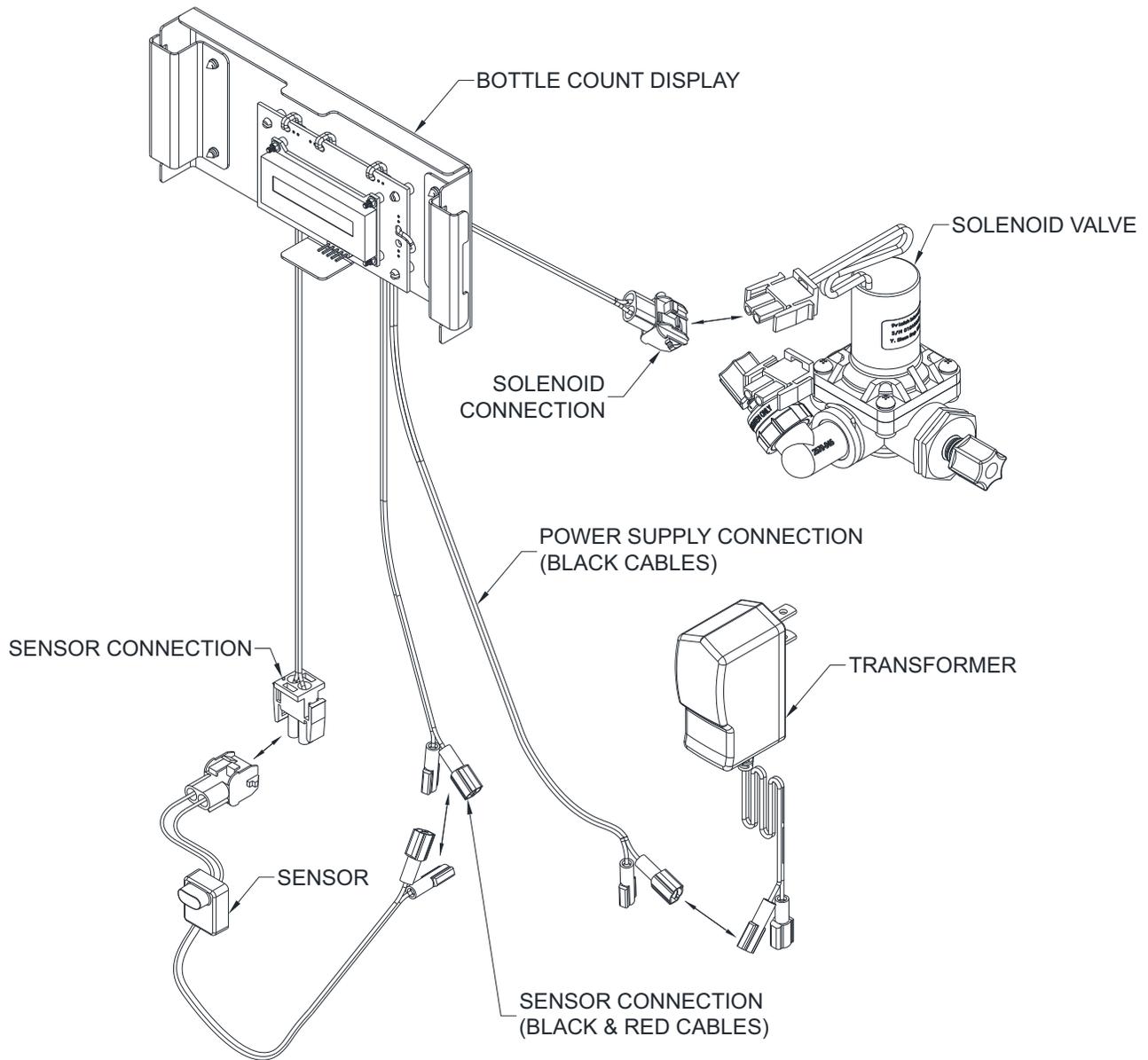
- Replace old filter with new filter.
- Depress the Reset/Mode selection button for **2 SECONDS**
- The “REPLACE FILTER” will no longer appear on the display
- Test by actuating the bottle filler, alert will not appear.



OPTIONAL -BCD BOTTLE COUNTER DISPLAY

See the following page for models with -BCD Bottle Counter Display (A151-VR-BF4-BCD)

BOTTLE FILLER & BOTTLE COUNTER CONNECTIONS:

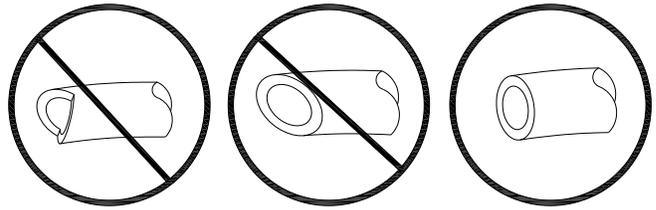


PUSH-IN FITTING INSTALLATION

NOTE: FITTINGS AND TUBE SHOULD BE KEPT CLEAN, BAGGED AND UNDEAMAGED PRIOR TO INSTALLATION.

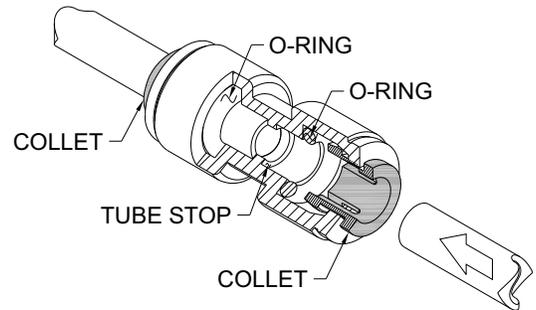
TO CUT TUBE:

Cut to fit length of 1/4" PE tubing and remove any burrs or sharp edges. Ensure that the outside diameter is free from score marks. Tube ends should be square.

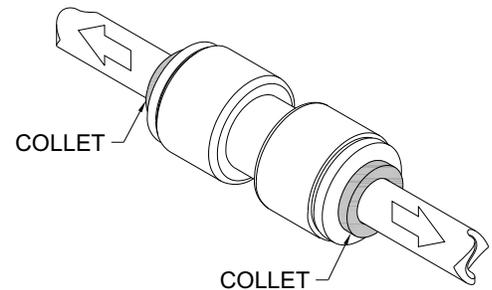


INSERTING THE TUBE:

1. Firmly and fully insert the tubing end into the push-in fitting up to the tube stop located approximately 1/2" deep.

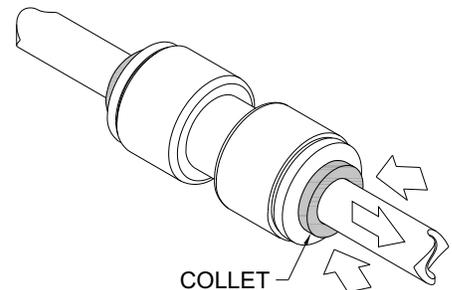


2. Pull on the fitted tubing to ensure it is secure. Tube should not come free from the fitting. Water test the connection assembly prior to leaving the site to ensure there are no leaks.



DISCONNECTING THE TUBE:

To disconnect the tube from the fitting ensure that the water line is depressurized. Push collet square towards the push-in fitting body and hold. While holding the collet in, pull on the PE tubing to remove from the push-in fitting.



TROUBLE SHOOTING:

1. ADJUSTMENTS:

- a. Cartridge – The water flow can be adjusted using a slotted narrow blade screwdriver and turning clockwise to increase flow and counterclockwise to decrease flow.
- b. Cold Water Thermostat – The water temperature can be adjusted using a slotted screwdriver and turning clockwise to make colder and counterclockwise to make warmer.
- c. Bubbler Stream - Bubbler can be rotated slightly to direct the stream backwards or forwards. Adjust the stream to minimize splashing. Splashing may occur from bubbler stream if the unit is not level. Shim lower mounting point, if necessary, to level chiller.

2. RESTRICTED OR NO WATER FLOW:

- a. Ensure water supply service stop valve is fully open.
- b. Verify minimum 20 psig supply line flow pressure.
- c. Check for twists or kinks in outlet tubing.
- d. Check the water inlet “Y” strainer. Sediment from the main supply can get trapped in the screen along with installation materials such as pipe dope and flux. The screen should be cleaned and checked on a regular basis and replace if needed.
- e. The cartridge valve located in the water control assembly or bubbler can also become clogged with foreign material. The cartridge valve can only be replaced and not repaired.
- f. Check flow adjustment. See start up note #3.
- g. Flow control in solenoid valve outlet elbow clogged remove & clean.
- h. No power to transformer connections, loose or wires cut.

3. WATER DRIPS OR WILL NOT SHUT OFF:

- a. Open fixture. Loosen nuts holding valve bracket assembly to bottom of fixture but do not remove. Move complete valve bracket assembly further back from the front push pad and tighten to lock in place.
- b. Replace valve cartridge.

SENSOR TROUBLE SHOOTING:

4. IF LIGHT WITHIN SENSOR DOES NOT FLASH ONCE WHEN USER IS WITHIN RANGE:

- a. Verify 120VAC input & 9VDC output transformer output 9VDC.
- b. Replace defective transformer.
- c. Transformer polarity crossed. Replace transformer, sensor may be damaged and also need replacement.
- d. Sensor in “Security Mode” after 30 seconds of consistent detection. Remove source of detection and wait 30 seconds before checking.
- e. Sensor is picking up a highly reflective surface. Eliminate cause of reflection and wait 30 seconds before checking.

5. IF LIGHT WITHIN SENSOR LENS FLASHES ONCE WHEN THE USER IS WITHIN RANGE:

- a. Repair bad connection from sensor to solenoid.
- b. There is debris or scale in the solenoid assembly. Remove solenoid, pull out plunger and spring. Clean with scale remover solution.
- c. There is debris or scale in the center or two holes in convolution of the water diaphragm. Remove and clean

CLEANING & MAINTENANCE GUIDE:

1. Motors have lifetime lubrication and do not require scheduled maintenance.
2. Excess dirt or poor ventilation will cause the compressor overload protector to turn the compressor off and it will cycle on and off with no cold water coming out of bubbler. Periodically clean with vacuum cleaner, air hose or brush the condenser fins and cabinet ventilation louvers. In environments where dirt and dust is more prevalent, clean more frequently.
3. Periodically remove fountain top and clean out in-line strainer.
4. Periodically remove access panel of cooler and clean out inline “Y” strainer

For Powder coated units: Units should be cleaned using a mild soap solution with a sponge or cotton cloth. Wipe down surfaces then rinse with clean water.

For Stainless steel units:

1. To Remove water spots or rust spots, stainless steel cleaner/polish on a cloth is recommended.
2. If there are stubborn spots or if you wish to treat a scratch, synthetic abrasive general purpose pads such as scotch brite are recommended.
3. Stainless steel should be kept clean at all times. If a coating of stainless steel cleaner/polish is maintained, stainless steel surfaces will retain their new, clean, polished appearance indefinitely.

CARTRIDGE REPLACEMENT/ STRAINER MAINTENANCE

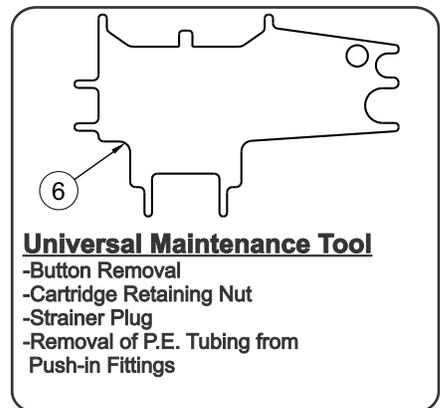
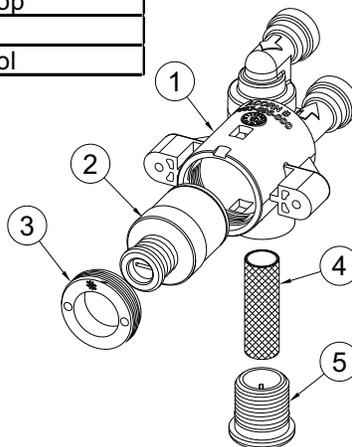
Note: Use the Universal Maintenance Tool to perform the following:

1. Strainer Plug must be removed before Cartridge replacement and Strainer maintenance (no need to turn the water off at the Angle Stop). Some residual water will drain during Plug removal.
2. Clean Strainer as needed using clean water.
3. Cartridge Replacement - insert diamond end of the Universal Tool into Pushbutton, rotate 90 degrees and pull firmly to remove the Button. Remove Cartridge Retaining Nut . Remove and replace Cartridge. When replacing Cartridge, be sure to align the inlet and outlet Ports on the Cartridge with the Ports in the Valve Body.

• **NOTE: STRAINER SCREEN MUST BE IN PLACE FOR WATER TO FLOW.**

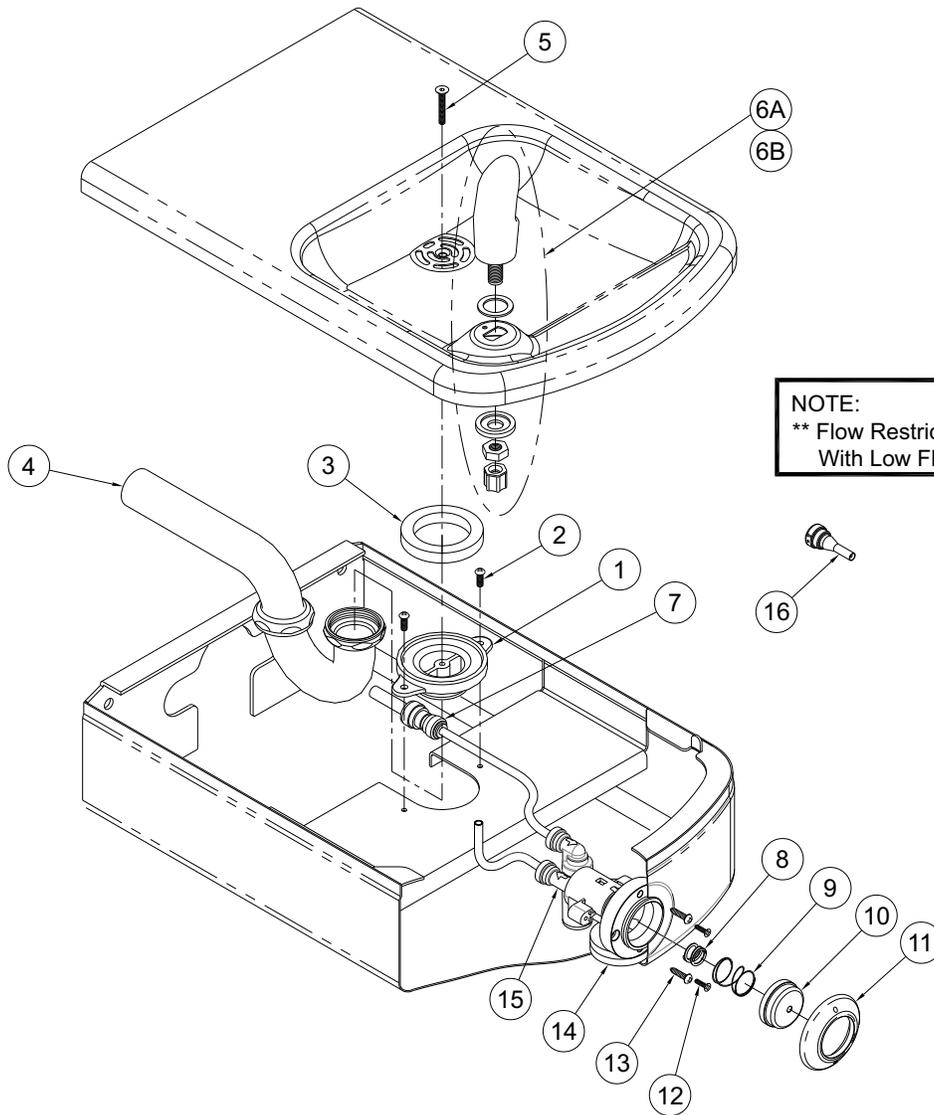
CARTRIDGE VALVE PARTS BREAKDOWN

ITEM #	PART NUMBER	DESCRIPTION
1	7003-095-000	Valve Body Sub Assembly
2	7000-060-000	Valve Cartridge
3	7000-052-000	Retaining Nut
4	7003-864-000	Strainer, Auto Stop
5	7003-097-001	Strainer Cap
6	7003-194-199	Maintenance Tool



DRINKING FOUNTAIN PARTS BREAKDOWN DRAWING

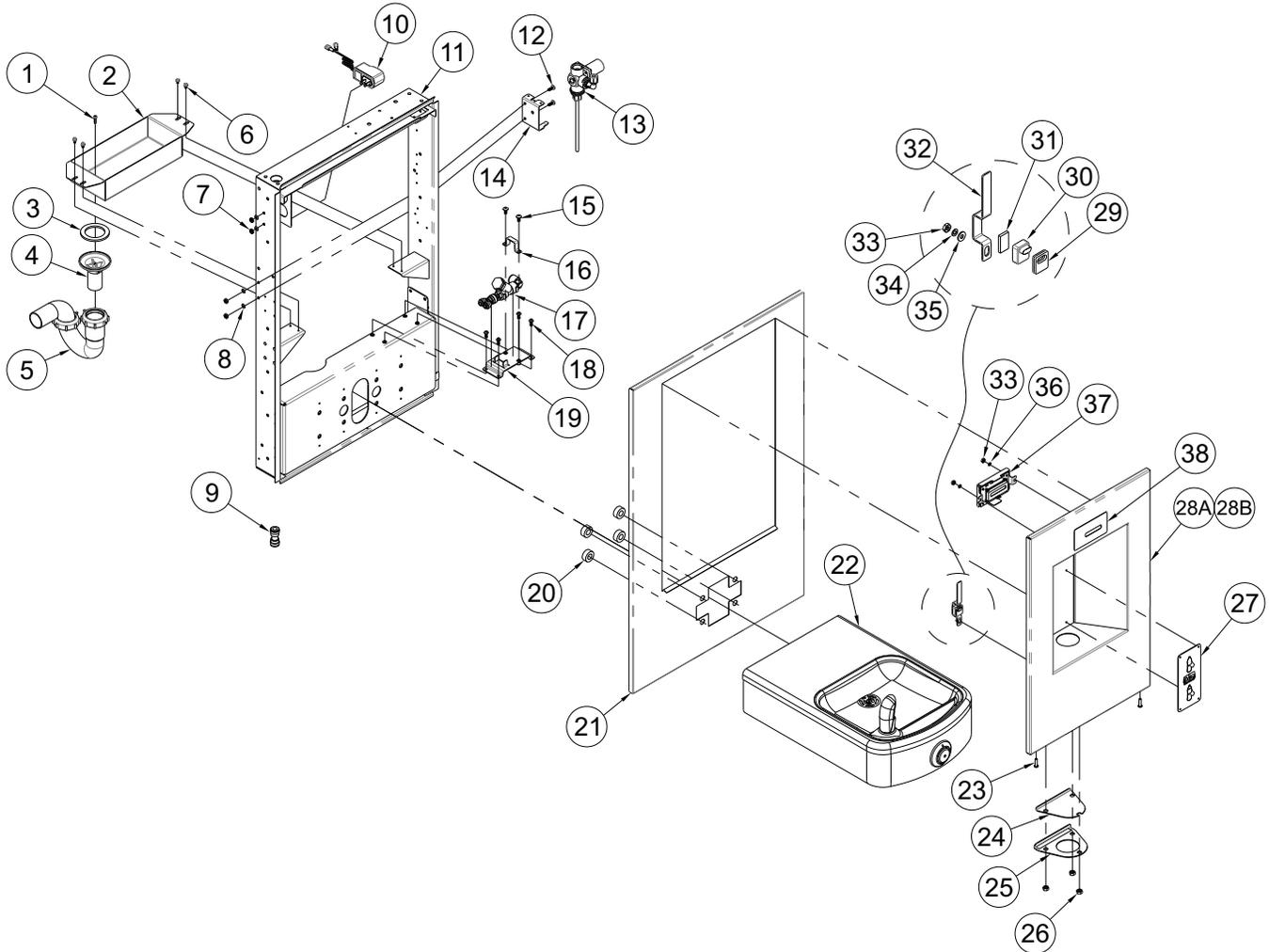
Shown is the 18" long unit, however the parts are the same for the 14" long unit.



ITEM #	PART NUMBER	DESCRIPTION	ITEM #	PART NUMBER	DESCRIPTION
1	7000-005-199	Drain Adapter	9	7003-193-000	Spring, Pushbutton Return
2	0116-016-000	#10-32 x 3/8" Phillips Truss Head Screw	10	7003-196-199	Pushbutton, Chrome
3	7000-006-000	Flat Drain Adapter Gasket	11	7003-197-199	Escutcheon, Chrome
4	7000-015-000	1-1/4" OD P-Trap	12	0161-062-000	#6-32 x 1/2" Phillips, Flat Head Screw
5	0152-010-000	#10-32 x 1" Hex Flat Head Screw	13	0124-055-000	#8 x 3/4" Phillips, Round Head Screw
6A	7000-012-001	Stainless Steel Bubbler Assembly	14	7003-198-199	Mounting Sleeve
6B	7000-099-002	Flexible Gray Bubbler Assembly	15	7003-095-001	Valve Body Sub Assembly
7	1895-123-000	1/4" x 3/8" OD Tube Union Push-In	16	7003-093-001	Flow Restrictor - Low-Flow Bubbler Only
8	7003-195-000	Spring, Overtravel			

Repairs must be made with Murdock Manufacturing parts only. Please order through your local representative or distributor. The phone number to locate your local representative is 1.800.591.9360.

A151-VR-BF4 SERIES BREAKDOWN



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A151-VR-BF4 SERIES BREAKDOWN

ITEM #	PART NUMBER	DESCRIPTION
1	0110-004-000	#8 x 3/4" Phillip Pan Head Screw
2	7014-034-199	Drain Tray, -BF4
3	7000-006-000	Drain Adapter Gasket
4	7003-186-199	1-1/4" x 2-3/4": Plastic Drain Tube
5	4970-265-000	1-1/4" P-Trap
6	0124-031-000	#8-3/8" Hex Head Screw
7	0302-004-000	#10-32 S/S Hex Nut
8	0321-011-000	#10 S/S External Tooth Lockwasher
9	1895-980-000	3/8" O.D. Tube Union Push-In Connection
10	0710-730-001	9V Plug-In Transformer
11	7014-160-001	Mounting Frame Assembly, -BF4
12	6502-070-000	#10-32 x 1/2" Pan Head Screw
13	7013-133-001	Valve Assembly
14	7014-036-199	Solenoid Mounting Bracket
15	0116-010-000	#10-32 x 1/2" S/S Phillips Truss Head Screw
16	7013-232-199	"Y" Strainer Bracket Clamp
17	7013-220-001	"Y" Strainer Assembly, -BF4
18	0112-021-000	#10-32 x 1/2" S/S Hex Screw
19	7013-221-199	Bracket "Y" Strainer Mount
20	7000-245-000	Back Panel Spacer
21	7014-215-199	Upper Trim Panel, #4 Finish, -BF4
22	Drinking Fountain	See Drinking Fountain Repair Parts for components
23	0116-013-000	#10-32 x 3/4" Phillips Round Head Screw
24	7013-103-199	Mesh Screen
25	7013-114-001	Weldment, Screen Plate, -BF4
26	0302-005-000	1/4-20 UNC S/S Hex Nut
27	7013-032-000	Graphics Plate, #4 Finish
28A	7014-019-003	Bottle Filler Panel Assembly, Less -BCD, #4 Finish
*28B	7014-020-003	Bottle Filler Panel Assembly, BF4-BCD, #4 Finish
29	7013-009-001	Nano Sensor Spacer Assembly
30	2563-380-001	Nano Sensor Assembly
31	7013-019-199	Foam Tape
32	7013-014-199	Nano Sensor Bracket
33	0302-003-000	#8-32 S/S Hex Nut
34	6527-108-000	#8 Internal Tooth Lockwasher
35	0331-023-000	#8 S/S Flat Washer
*36	0331-003-000	#8 Helical Spring Lock Washer
*37	7014-022-001	BCD, Bottle Filler Counter Bracket Assembly
*38	7013-034-000	Nameplate, Outdoor Bottle Filler (Green)

NOTE:

Items with (*) are for units with -BCD option only.

Repairs must be made with Murdock Manufacturing parts only. Please order through your local representative or distributor. The phone number to locate your local representative is 1.800.591.9360.