BF11 & BF12 Bottle Filler Series

**BF11**
- **H₂O to go!'**
- Pushbutton Actuated

**BF12**
- **H₂O to go!'**
- Sensor Operated

Please visit [www.murdockmfg.com](http://www.murdockmfg.com) for most current specifications.

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

**Note:** Rough-Ins are the same for BF11 & BF12

**General Notes:**

1. All dimensions are in inches [MM]
2. Ø1/4" Holes, 10 Places for Anchoring Hardware, provided by others
PRIOR TO INSTALLATION:

1. Some options may slightly alter installation. To ensure proper installation, review the Manual thoroughly and verify rough-ins before beginning any work. File this Manual with the owner or maintenance personnel upon completion of installation.

2. Carefully remove all fixture components from packaging, preventing scratching or damage. Inspect fixture and all parts for damage.

3. Provide rough-ins as shown on the roughing-in and dimensional drawing. (See rough-in details)

4. Water Supply Service Stop Valve, Water Connections and Electrical Connections to be supplied and installed by others in accordance with local codes.

5. Fixture mounting requirements: Industry standard wall construction, adequate to support the fixture and wall anchors (installer provided) sufficient to secure the fixture.

6. Fixture operates within water pressure range of 20 to 105 PSIG. Murdock will not warranty fixtures damaged when connected to supply lines with flow pressure lower than 20 PSIG or higher than 105 PSIG.

7. Water Supply inlet is 1/4” OD Polyethylene (PE) Tube.

8. Per UPC 609.10-All building water supply systems in which quick-closing 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.

9. Completely flush supply of all foreign debris before connecting to fixture. Bottle Filler is designed to provide trouble free drinking water unaffected by fixture connection tubing and fittings and will not cause problems with taste, odor, color or sediment.
PUSH-IN FITTING INSTALLATION

NOTE: FITTINGS AND TUBE SHOULD BE KEPT CLEAN, BAGGED AND UNDAMAGED 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:
Prior to disconnecting 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.
BF11/BF12 INSTALLATION INSTRUCTIONS

1 Install the newly obtained Water Cooler per the Installation Manual provided with the unit. Do not install Access Panel at this time. Shut-off water supply, then actuate Valve to relieve pressure. Place Screws and Panel in secure location for further use in Manual.

2 Remove Bottle Filler Assembly, Power Supply and Grommet from packaging, careful to avoid damage to Fixture and Fixture Sub Assemblies. Set Power Supply aside in a secure location.
BF11/BF12 INSTALLATION INSTRUCTIONS (CONTINUED)

3 Unfasten Screws that hold the Bottle Filler Housing to the Mounting Panel. Place Bottle Filler Panel and Screws in a secure location.

- Bottle Filler Housing
- Mounting Panel
- #10-32 x 1" Button Head Screw

4 Disconnect the Water Supply Insulation and Tubing from 1/4" Shut-Off Valve that is located on the Mounting Panel.

- Mounting Panel
- Shut-Off Valve
- 1/4" OD Tubing & Insulation
BF11/BF12 INSTALLATION INSTRUCTIONS (CONTINUED)

5 Connect the Bottle Filler Supply Tubing to the 1/4" Push-In Tee located on the Evaporator. The Evaporator is located within the Water Cooler Assembly. If fixture differs from layout, refer to page 12 for specific unit connections.

6 Center Mounting Panel on top of Deck to finished wall and Secure with Anchoring Hardware, by others, for Ø1/4" Mounting Holes.

1 Water Cooler Assembly
2 Mounting Plate
3 Anchoring Hardware, by others
4 6x Ø1/4" Mounting Holes (A)
5 Auxiliary Ø1/4" Mounting Holes (B)
   (If replacing BF2)
BF11/BF12 INSTALLATION INSTRUCTIONS (CONTINUED)

7 Push Tubing with Insulation and Power Wires up through hole in Basin. Install Grommet.

8 Connect Water Supply Tube to the 1/4" Shut-Off Valve that is located on the Mounting Panel. Refer to page 4 for proper connection.

1. Water Cooler Deck
2. 1/4" OD Tubing & Insulation
3. Grommet
4. Power to Bottle Filler
   (Not required with BF11)
BF11/BF12 INSTALLATION INSTRUCTIONS (CONTINUED)

BF11 SERIES

9A With Mounting Panel secured, place Bottle Filler Housing on top of the Water Cooler and connect water supply line from Bottle Filler to Pneumatic Valve Outlet. Connect 1/8” Air-Line to Pushbutton and Pneumatic Valve Inlet.

BF12 SERIES

9B With Mounting Panel secured, place Bottle Filler Housing on top of the Water Cooler and connect water supply line from Bottle Filler to Solenoid Valve Outlet.
BF11/BF12 INSTALLATION INSTRUCTIONS (CONTINUED)

BF12-BCD SERIES

10A Connect Electrical wiring as shown in diagram. If unit does not have -BCD Bottle Count Display, skip to step 10B.

BF12 SERIES

10B Connect Electrical wiring as shown in diagram. If unit has -BCD Bottle Count Display, see step 10A before continuing.
BF11/BF12 INSTALLATION INSTRUCTIONS (CONTINUED)

11 Connect Power Supply, turn on water and check for leaks throughout the system.

1 Mounting Panel
2 Water Cooler Assembly
3 Bottle Filler Housing
4 Power Supply
5 Solenoid Valve

12 With fixture tested, install Housing to Mounting Panel. Angle Housing and engage Housing Bottom Flange to Mounting Panel Flange and close unit. Secure with Screws from step 3.

1 Bottle Filler Housing
2 Mounting Panel
3 #10-32 x 1” Button Head Screw
4 Housing Bottom Flange
5 Mounting Panel Flange


1 Water Cooler
2 Bottle Filler
3 Access Panel
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 Bottle Filler.

2. Connect the Power Supply Wires to either the Sensor or -BCD Bottle Counter Display (if equipped).

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. Hold cup (or similar object) directly below Filler Spout is recommended when first activating Bottle Filler to prevent excessive splashing. Activate Sensor until steady water stream is achieved.

OPERATING INSTRUCTIONS:

Position container to be filled directly in front of the Sensor and centered under the Filler Spout. Water flow starts automatically. When the container is almost filled, remove container. The water will stop flowing.

BOTTLE COUNTER ADJUSTING & RESETTING INSTRUCTIONS:

NOTE: Bottle Counter Has Multiple Functions
Reset/ Mode Button
• Counts refilled bottles
• 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.
BF11/BF12 Water Supply Tubing Diagram

Install Tubing as shown below to add Bottle Filler to Fixture

1. Water Supply Line, to Bubbler
2. Water Supply Line, to Bottle Filler
3. 1/4" O.D. Push-In Tee
4. Water Supply Line, Inlet
5. Foam Insulation

Non-Refrigerated Unit (Drinking Fountain)
Non-Pressurized Unit (Water Cooler)
Pressurized Unit (Water Cooler)
Pressurized with Bottle Filler
FILTER REPLACEMENT FUNCTIONS:

NOTE: When the volume accumulates to Filter capacity, the “REPLACE FILTER SOON” 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/Mode button for the mode settings. The Reset/Mode Selection Button is accessible by removing the Housing, then locate the large hole in the back of the Display Mounting Bracket. Use your finger or nonconductive object to depress the Reset/Mode Selection Button.

CAUTION: DO NOT USE SHARP OR METAL OBJECTS

With this Reset/Mode Button, you are able to indicate whether or not the unit has a Filter or does not have a Filter. The Reset/Mode Button is used to remove the “REPLACE FILTER” alert after the Filter has been replaced.

Systems With or Without Filter:

- To reset “REPLACE FILTER” message:
  - Press and hold Button until “3” is displayed, then release.

- To change display to match Filter capacity:
  - Press and hold Button until the display matches installed Filter type, then release.
    - “FILTER NONE”
    - “FILTER 1500”
    - “FILTER 3000”

![Diagram showing the Reset/Mode button and its uses]

To reset “REPLACE FILTER” message
- press and hold until “3” is displayed, then release

To change display to match filter capacity:
- press button until the display matches installed filter type
  - “FILTER: NONE”
  - “FILTER: 1500”
  - “FILTER: 3000”
TROUBLE-SHOOTING:

1. IF LIGHT WITHIN SENSOR DOES NOT FLASH ONCE WHEN USER IS WITHIN RANGE:
   a. Verify 120VAC input & 9VDC output of Transformer.
   b. Replace defective Transformer.
   d. Sensor is picking up a highly reflective surface. Eliminate cause of reflection and wait 30 seconds before checking.
   e. Replace defective sensor.

2. IF LIGHT WITHIN SENSOR LENS FLASHERS 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 center or two holes in convolution of the water diaphragm. Remove and clean.

3. 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 twist or kinks in Spout 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. Flow Control in spout clogged, remove & clean.
   f. The Water Cooler may also develop a freezing condition in which the water will become frozen inside the Evaporator coil. This indicates a refrigeration problem or Thermostat failure in which case the Water Cooler needs to be checked by a qualified technician.
   g. No power to Transformer connections loose or wires cut.

CLEANING & MAINTENANCE GUIDE:

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 is recommended.
3. Apply stainless steel cleaner/polish to the synthetic abrasive pads and carefully rub the panel with the grain.
4. Do NOT use harsh chemicals, abrasive or petroleum based cleaners. Use of these will void the Murdock warranty. DO NOT use abrasives on powder coated units.
5. 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. Use clean mild soapy water for powder coated units.
6. Periodically remove Panels and clean out inline "Y" Strainer.
BF11 PARTS LIST BOTTLE FILLER PARTS BREAKDOWN

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<thead>
<tr>
<th>ITEM #</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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<td>1</td>
<td>CONTACT FACTORY</td>
<td>HOUSING ASSEMBLY, BF11</td>
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<td>1/8&quot; OD LDPE TUBE, NATURAL, 3' LONG</td>
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<td>BOTTOM TRIM, H202GO</td>
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<td>LOCKING GROMMET, 1.188 DIA HOLE</td>
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<td>3</td>
<td>0116-123-000</td>
<td>#10-32 x 1&quot; BUTTON HEAD SCREW</td>
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<td>2566-160-001 (-PBH) SIDE OUTLET PUSHBUTTON</td>
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<td>4</td>
<td>1895-710-000</td>
<td>1/4&quot; PUSH-IN UNION TEE</td>
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<td>1/4&quot; O.D. LLDPE TUBING, BLUE</td>
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# BF12 PARTS LIST BOTTLE FILLER PARTS BREAKDOWN

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BF11 VALVE BREAK DOWN

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BF12 VALVE BREAK DOWN

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<td>7014-1293-199</td>
<td>BF11/12 VALVE MOUNTING BRACKET</td>
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Murdock warrants that its products are free from defects in material or workmanship under normal use and service for a period of one year from date of install or for 18 months after the date of shipment from the factory, whichever comes first. The sealed refrigeration system is warranted for five years. Murdock’s liability under this warranty shall be discharged solely by replacement or repair of defective material, provided Murdock is notified in writing within one year from date of shipment, F.O.B. Industry, California.

This warranty does not cover installation or labor charges and does not apply to materials, which have been damaged by other causes such as mishandling or improper care or abnormal use. The repair or replacement of the defective materials shall constitute the sole remedy of the Buyer and the sole remedy of Murdock under this warranty. Murdock shall not be liable under any circumstances for incidental, consequential or direct charges caused by defects in the materials, or any delay in the repair or replacement thereof. This warranty is in lieu of all other warranties expressed or implied. Product maintenance instructions are issued with each unit and disregard or non-compliance with these instructions will constitute an abnormal use condition and void the warranty. Stainless steel must be protected on job site during construction and must be properly maintained after the water has been introduced into the water cooler or drinking fountain, or Murdock’s limited warranty is void.

LIMITED EXPORT WARRANTY - One year on parts only.