Installation & Use Manual
Original Instructions
Model: EZWSSMJO

Description

Surface mount bottle fillting station designed for installations with limited wall depth. Bottle filling unit is sensor operated for touchless activation with automatic 20-second shut-off timer.

Ratings

- Electrical: 230Vac, 50Hz, (See Nameplate for Amperage), 1 phase.
- Ambient Air Temperature: 50-100.4 °F (10-38 °C).
- Water Pressure: 20-100 psig (0.14-0.69 MPa).
- Maximum Water Temperature: 90 °F (32 °C).

- Ingress Protection: IP2x
- For Indoor Commercial Use only.
- Water Inlet: 3/8" (9.5mm) O.D. Poly tubing
- Waste Water Outlet: 1-1/4" O.D. tube

Definitions

DANGER – Indicates death or serious injury will result if proper precautions are not taken.
WARNING – Indicates death, serious injury or property damage can result if proper precautions are not taken.
CAUTION – Indicates some injury or property damage may result if proper precautions are not taken.

Authorized Service Personnel – Factory trained personnel or personnel having working knowledge of electrical, plumbing and machine (appliance) maintenance procedures.

Safety

DANGER

- Please read these instructions completely before starting the installation or performing any service. Failure to follow the instructions and safety precautions in this manual can result in serious injury or death.
- After installation, keep these instructions in a safe location for future reference.
- Electric supply must be identical in voltage, cycle, and phase to that specified on nameplate.
- Electrical supply must have Ground Fault Circuit Interrupter (GFCI) protection.
- A means for disconnecting electrical supply to the unit must be incorporated in the fixed wiring in accordance with wiring rules. This is to allow electrical disconnection of the unit from electrical supply after installation.

WARNING

- For use with clean, clear potable drinking water only. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before the system.
- Installation and connection to water and electrical mains must be in compliance with local and national laws.
- All Installation and Service work must be performed by an authorized service personnel.

CAUTION

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge if they have been given supervision or instructions concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- To prevent a metallic taste or increased metal content in the water due to an electrolysis process caused by electrical feedback from the grounding of electrical equipment to water supply and water waste mains, connect to these mains using non-conductive materials. The provided solenoid valve/regulator assembly meets this requirement.

Installation

For correct and safe installation, please read these instructions completely.

DANGER
- All Installation work must be performed by an authorized service personnel.
- Disconnect electrical supply serving the Installation area to reduce risk of electrocution.
- Unit not suitable for installations where water jets could be used.

WARNING
- Shut off water supply serving the Installation area to reduce risk of water damage.
- Thoroughly flush all water lines and fittings of all foreign matter before connecting to Bottle Filler.
- Warranty is void if Installation is not made in accordance with current Manufacturing instructions.

CAUTION
- Hose-sets are not to be used for connecting to water mains.
- If inlet pressure is above 100 psig (0.69 MPa), a pressure regulator must be installed in water supply line. Any damage caused by reason of connecting this product to water supply line pressure outside it's rated pressure, is not covered by warranty.
- Tools/Items required but not provided.
  - o   Water Shut-off Valve with 3/8" (9.5mm) compression outlet.
  - o   Slip Joint Drain Union or Compression Clamp
  - o   Safety Glasses
  - o   Protective Gloves
  - o   Fasteners for wall type
  - o   5/32" (4mm) Hex Wrench

Installation: Bottle Filler Mounting

1. Remove bottom cover from bottle filler by removing two (2) screws from bottom of unit with a 5/32" (4mm) hex wrench (not provided). Remove and place aside. See Figure 3.
2. Remove back panel by removing two (2) screws from top of unit.
3. Mount hanger bracket as shown in Figure 1.
- NOTE: Hanger Bracket MUST be supported securely. Add fixture support carrier if wall will not provide adequate support. Anchor hanger securely to wall using all eight (8) 7/16" (11.1mm) diameter mounting holes.
4. Ensure bottom cover is not obstructed by roughed-in Water and Drain lines. Test by sliding bottom cover up into back panel opening. If bottom cover is prevented from seating properly, reposition water and/or drain lines slightly until the bottom cover fits easily.
5. Ensure water line is routed inside of the rear cross member. If outside the cross member, reposition to inside. Water line must be routed on the inside of cross member for proper installation.
6. Hang the bottle filler onto the back panel, aligning three (3) tabs into three (3) slots on the rear cross member.
7. Secure bottle filler to back panel by replacing top cover on top of unit and fastening with two (2) previously removed screws.
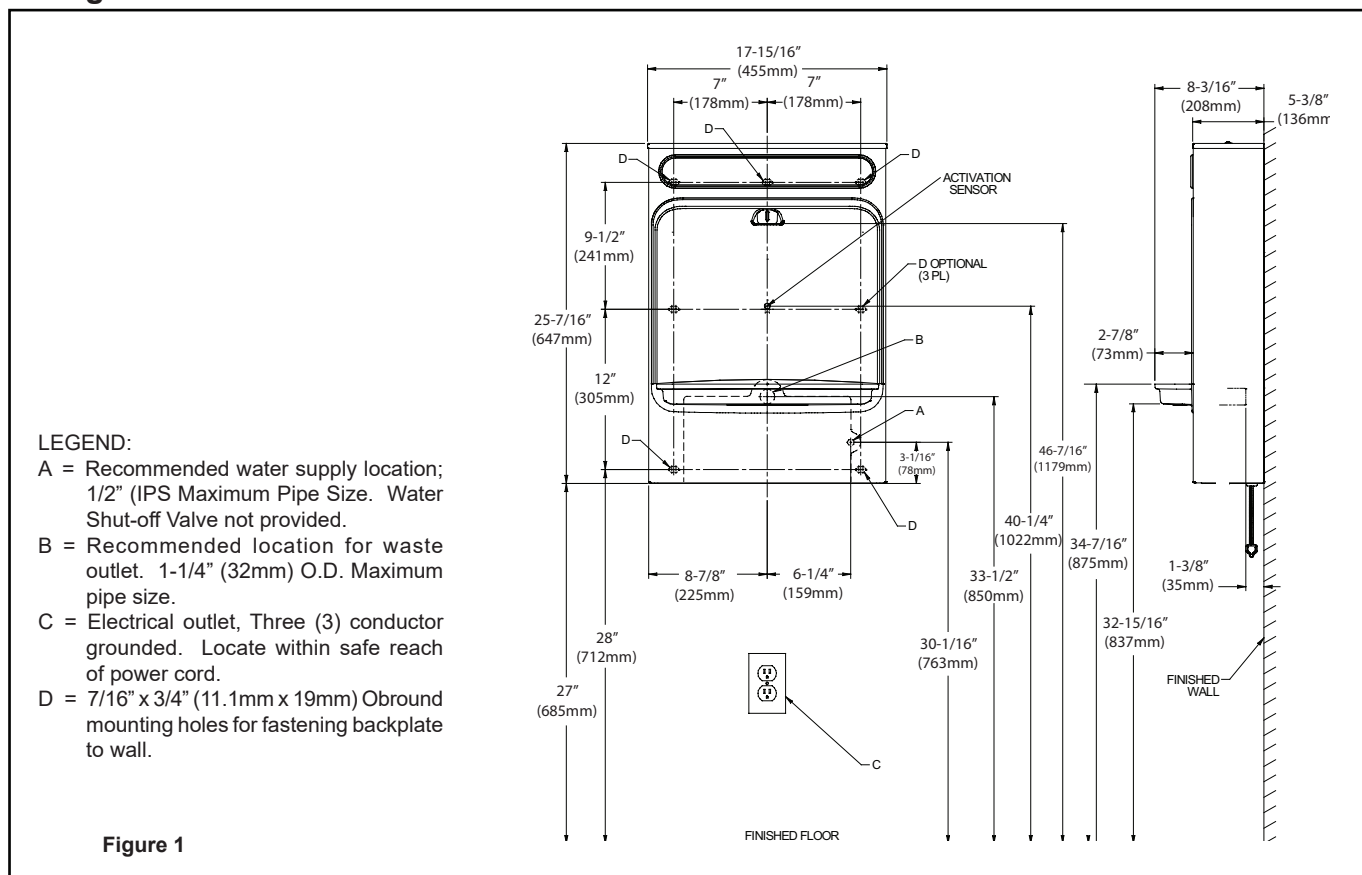
Installation: Water Line connection

1. Ensure Mains Water Supply has Water Shut-off Valve with 3/8" (9.5mm) compression outlet.
2. Connect loose end of supplied 3/8" (9.5mm) insulated poly tube to compression end of Water Shut Off Valve. See Figure 2 for operation of Quick Connect Fittings.
3. Connect the 1-1/4" (31.8mm) O.D. Drain Tray Outlet to the in-wall Drain Line using a Slip Joint Drain Union or cmopression clamp (not provided). Tighten all connections water tight.
4. Turn on building water supply and open Water Shut-off Valve. Check all connections for leaks and correct any found.

Installation: Electrical connection

1. Thread modular (C-13) end of International Power Cord Set (sold separately) through bottom cover and into power inlet of bottle filler. See Figure 4.
2. Ensure plug-end reach electrical outlet. Do not plug into electrical outlet!

Rough-In: EZWSSMJO

LEGEND:
A = Recommended water supply location; 1/2" (IPS Maximum Pipe Size. Water Shut-off Valve not provided.
B = Recommended location for waste outlet. 1-1/4" (32mm) O.D. Maximum pipe size.
C = Electrical outlet, Three (3) conductor grounded. Locate within safe reach of power cord.
D = 7/16" x 3/4" (11.1mm x 19mm) Obround mounting holes for fastening backplate to wall.
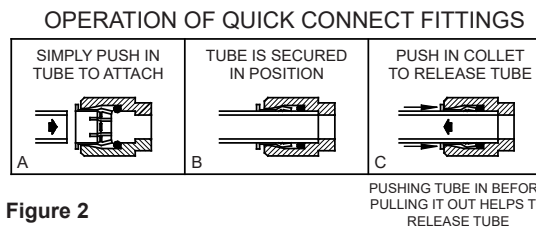
Figure 1

Operation: Start-Up

1. Turn on the building water supply and check all connections for leaks.
2. Connect plug-end of International Power Cord Set (sold separately) into electrical outlet.

WARNING: Exposed electrically energized components. Use extreme caution.

3. Purge air from all water lines by activating proximity sensor with your hand or other opaque object.
4. Recheck all water and drain connections with water flowing through system.
5. If setting up the Control Board for the first time, go to Setting the Control Board (Page 4 or 5) before continuing.
6. Place cable clamp (supplied)on power cord (See Figure 4) allowing sufficient slack for installing and removing Bottom Cover with cord pluged in and secure clamp with screw (provided).
7. Place Bottom Cover in position on underside of unit with long tab against wall and slide up into Back Panel opening. Secure with two supplied Allen Head screws using a 5/32" (4mm) hex wrench (not provided).

Service: Inspection/Cleaning

• Inspect Bottle Filler twice each year for proper operation and performance.
• Inspection of the unit will require disconnecting electrical supply, removal of panels, etc. and reassembly and return to service practices.

1. Cleaning: Warm, soapy water or mild household cleaning products can be used to clean the exterior panels. Extra caution should be used to clean the mirror finished stainless steel panels. They can be easily scratched and should only be cleaned with mild soap and water or Windex glass cleaner and a clean, soft cloth. Use of harsh chemicals or petroleum based or abrasive cleaners will void the warranty.
2. Water Flow: Confirm proper water flow. If water flow is slow, inspect filter or inline strainer for restriction. Replace filter cartridge if required. Disassemble inline strainer and clean if required.
3. Actuation of Quick Connect Water Fittings: Cooler is provided with lead-free connectors which utilize o-ring water seal. To remove tubing from the fitting, relieve water pressure, push in on the gray collar before pulling on the tubing. To insert tubing, push tube straight into fitting until it reaches a positive stop, approximately 3/4" (19mm).

OPERATION OF QUICK CONNECT FITTINGS

SIMPLY PUSH IN TUBE TO ATTACH	TUBE IS SECURED IN POSITION	PUSH IN COLLET TO RELEASE TUBE
A	B	C

PUSHING TUBE IN BEFORE PULLING IT OUT HELPS TO RELEASE TUBE

Figure 2

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) Shut down the unit by unplugging the power cord from the wall outlet.
3) Restart the unit by plugging the power cord back into the wall outlet.
4) Upon start up the bottle count display will show the software designation of BF9 or BF11.

ACCESSING THE PROGRAMING BUTTON

1) To access the program button, remove the two (2) screws holding the Bottom Cover in place. Button is located within finger reach from the underside of the unit on the front right hand side.
2) When finished setting control board, reinstall Bottom Cover and secure with the same two (2) screws.

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 "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.
5) There are three (3) LED's that indicate the following:
   Green: LED (Good) indicates that the filter is operating within 0% - 80% of its life.
   Yellow: LED indicates that the filter is operating within 80% - 100% of its life.
   Red: LED (Replace) indicates that the filter needs to be replaced since it has reached end of filter life.

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 nonrefrigerated product. In this setting the flow rate is estimated at 1.5 gallons per minute.
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 e.g. "00033183".
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 approximately 9 seconds to see bottle counter count 00000001. <u>NOTE</u>: Bottle count is approximate and is dependent on water pressure and flow through the filter.
   NON-REFRIG units: Place bottle or hand in front of sensor for approximately 6 seconds to see bottle counter count 00000001. <u>NOTE</u>: Bottle count is approximate and is dependent on water pressure and flow restrictions.

BF11 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 BF9 or BF11.
6) Reference the BF9 or BF11 instructions for setting the control board.

ACCESSING THE PROGRAMMING 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 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

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.
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-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.
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-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. "00033183".
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-RFRG 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)
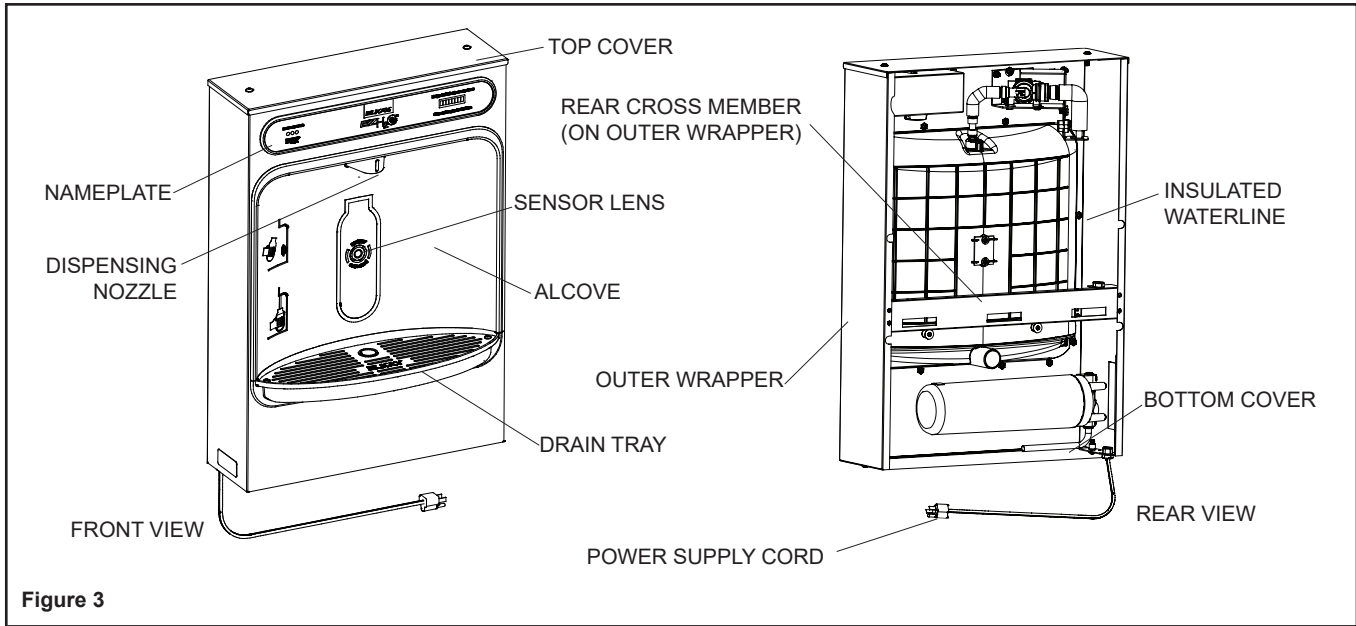
Figure 3

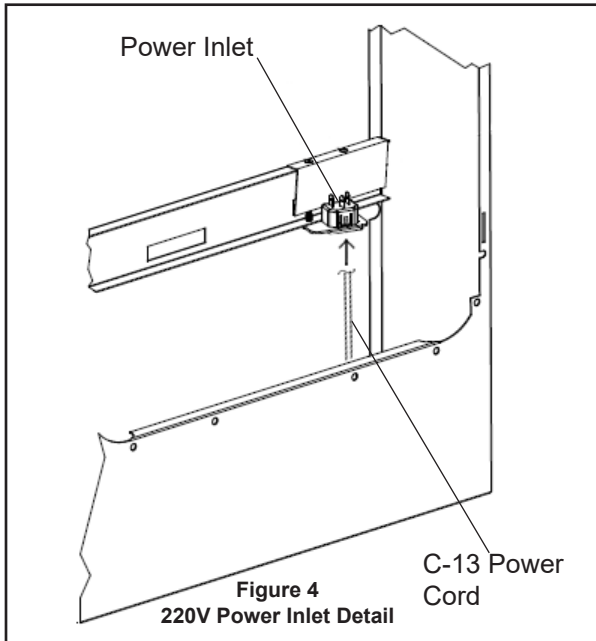| REPLACEMENT PART KITS	
PART NO.	DESCRIPTION
98543C	Kit - Electrical Package
98544C	Kit - EE Sensor
2000000503	Kit - Solenoid Valve Replacement
98546C	Kit - Aerator Replacement
98549C	Kit - Hardware & Waterway Parts
98631C	Kit - Electrical Package 220V
2000000502	Kit - Solenoid Valve Replacement 220V

Figure 4
220V Power Inlet Detail

Figure 5
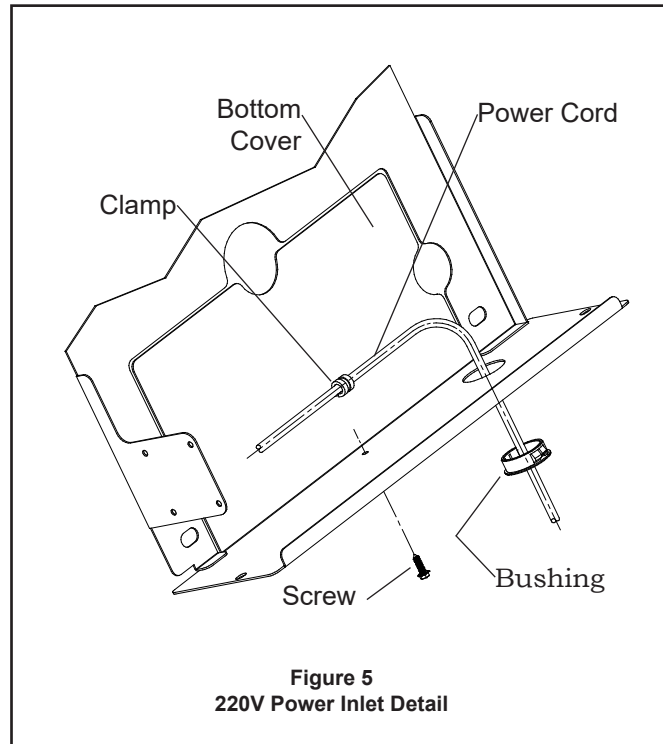**220V Power Inlet Detail**

For Replacement Parts, contact your local distributor or call 1.800.834.4816

ELKAY MANUFACTURING Co. 1333 BUTTERFIELD ROAD SUITE 200 DOWNERS GROVE, IL 60515 U.S.A – 630.574.8484