

ELKAY®

INSTALLATION & USE MANUAL

Elkay ezH2O® Built-in Filtered Vandal Resistant Mechanical Bottle Filling Station with Filter Status Monitor



INSTALLER

- CAUTION:** Review these instructions before beginning installation. Be sure that installation conforms to all plumbing, electrical and other applicable codes.
- WARNING:** When installation is complete, ensure these instructions are left in the plastic bag provided inside the installed unit for future reference.
- WARNING:** Service to be performed by authorized service personnel only.

NOTE: It is common practice to ground electrical hardware such as telephones, computers and other devices to available water lines. This can, however, cause electrical feedback in the plumbing circuit, which results in an “electrolysis” effect occurring in the fountain. This may result in water which has a metallic taste to it or has a noticeable increase in the metallic content of the water.

When inspecting plumbing circuit, remember the line may be grounded some distance from the installation, and may occur outside the building or area in which the unit is being installed.

This condition can be avoided (in most cases) by using recommended materials during installation. Any drain fittings provided by the installer should be made of **plastic** which will electronically isolate the fountain from the remainder of the building’s plumbing circuits.

Patent zurn-elkay.com/patents

- WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov
- ADVERTENCIA:** Cáncer y daño reproductivo - www.P65Warnings.ca.gov
- AVERTISSEMENT:** Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

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1. General Information

This hands-free water dispenser serves healthier, filtered water in a sustainable way with stylish in-wall installation. It is designed for residential purpose.

1.1 Installation Manual

Read all instructions carefully BEFORE starting the installation and familiarize yourself with the various parts of this product.

The installation of this product requires electrical and plumbing connections that use specific skills and knowledge. If you are unsure or not qualified to make these connections, consult a qualified plumber, electrician, or installer. Professional installation is suggested.

This manual contains step-by-step installation instructions for the In-wall Water Dispenser. Followed carefully, these instructions will result in trouble-free installation of this Elkay Manufacturing Company (Elkay) product. Additional use and care documents can be found on the Elkay website at <http://www.elkay.com/support>.

Any deviations, additions, and/or deletions from the described methods, without prior written approval of our Customer Care department, will void the warranty covering this product.

Make sure the installation and use of this product meets all local, state, and federal plumbing and electrical codes.

WARNING



Carefully read, understand, and follow all the instructions in this manual before using the product. Improper installation, use, or maintenance of this product could cause a dangerous situation resulting in personal injury or even death.

Do not operate power tools unless you read and understand the instructions and warnings in this and all other applicable manuals. Proper use of tools and the products described in this manual is your responsibility.

NOTICE

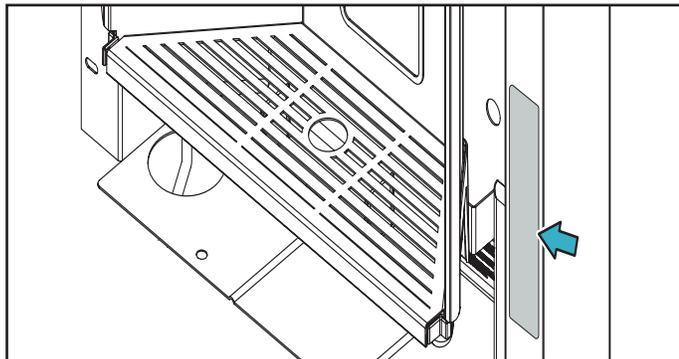
Failure to follow these instructions could also cause a situation that results in water damage, or other damage to floors, walls, pipes, or electrical wiring.

1.2 Models Covered in Manual

LBWDCM0SSC-FM

1.3 Serial Number Location

Please locate the serial number located under the front panel, as shown and use this serial number when contacting us with questions concerning the installation of this product.



1.4 Contact Information

General Information

Elkay Manufacturing Company
1333 Butterfield Road, Suite 200
Downers Grove, IL 60515
Phone: 630.574.8484
Email: consumer@elkay.com
Website: <http://www.elkay.com>

USA/Canada Customer Care

Phone: 800.476.4106
Phone: 800.260.6640 (Repair Service)
Email: CustCare@Elkay.com

International Customer Care

Phone: 630.575.4755
Email: IntlCare@Elkay.com

Installation Services

Phone: 800.952.8064
Email: installservice@elkay.com
Website: <http://www.elkay.com/contact-us/install>

1.5 Disclaimer

The information contained in this manual is given free of charge. This information is based on reliable technical data and is intended for people with the technical knowledge to install, use, and maintain this product at their own discretion and risk. Elkay assumes no responsibility for results obtained or damage incurred from the use of this material either in whole or in part by the buyer.

1.6 Notice of Changes

The information, specifications, and illustrations in this manual are based on the information that was available at the time this material was written and can change at any time.

Dimensions are given in inches (") and millimeters (mm).

1.7 Warranty

This product is covered by a Limited Warranty and Elkay will not be held responsible for damage of any kind in connection with the installation of the product or <http://www.elkay.com/warranty> and click on drinking water products.

1.8 Definitions

DANGER - Indicates death or serious injury will result if proper precautions are not taken.

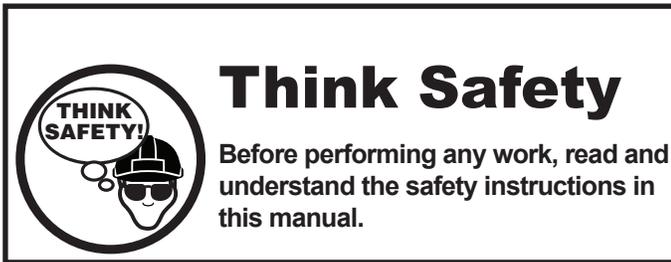
WARNING - Indicates death, serious injury or property damage can result if proper precautions are not taken.

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.

2. Safety



2.1 General

The Elkay Manufacturing Company (Elkay) cannot anticipate every possible circumstance that might involve a potential hazard during the installation or maintenance of this product. The warnings and instructions in this Installation Manual are, therefore, not all-inclusive. If a tool, installation procedure, or work method that is not specifically recommended by Elkay is used, you must be satisfied that it is safe for yourself and others. You should also make sure that the product will not be damaged by the methods you choose.

Most work-related accidents are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. As you install and maintain this product, you must be alert to potential hazards. You should also have the necessary training, skills, and tools to perform any installation or maintenance procedure.

2.2 Safety Alert Symbol



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

This manual contains WARNINGS, CAUTIONS, NOTICES, SAFETY INSTRUCTIONS, and NOTES which must be followed to prevent the possibility of improper service, damage to the equipment, personal injury, or death. The following keywords call the reader's attention to potential hazards.

Hazards are identified by the "Safety Alert Symbol" and followed by a signal word such as "WARNING" or "CAUTION".

2.3 Personal 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.

⚠ WARNING

These warnings indicate a potentially hazardous situation which, if not avoided, could result in serious injury or death. Follow all instructions related to the installation and/or maintenance of this product (unit).

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.



Personal Protection

Be sure to use all personal protective equipment, such as sturdy safety glasses, work shoes, hearing protection, and cut resistant gloves, whenever necessary, to ensure your own safety.



To avoid eye injury, always wear protective glasses with side shields when using power tools. Also, make sure no one else can be injured by flying particles when using power tools.



Always wear ear protection, such as earmuffs or earplugs, when using power tools.



Wear protective cut resistant gloves during installation to protect against sharp edges from sheet metal components.



Power Tool Hazard

To prevent personal injury or possible death, always follow the electrical safety recommendations of the power tool's manufacturer.

- Do not use power tools in an unsafe manner.
- Power tools should only be connected to a circuit protected by a ground-fault circuit interrupter (GFCI).
- If an extension cord is required, always use an appropriate extension cord.



Shock and Electrocutation Hazards

Failure to follow these instructions could result in severe electrical burns, significant injuries, and even death.



Water will conduct electric current to create a short circuit, resulting in injury or death.

- Never use electric power tools around water or wet floors/surfaces.
- Keep all liquids away from electrical cords and power tools.
- If an extension cord is required, always use an appropriate extension cord.
- DO NOT create a short circuit between a source of electricity and a liquid by being in contact with both simultaneously.

WARNING



Contacting live electrical wiring with power tools or hand tools can cause serious injury or death.

- Make sure all related circuit breakers are turned OFF.
- Test for live circuits or wiring inside any wall where installation of the product requires cutting into a wall.



Prior to any maintenance, make sure the unit is disconnected from the power source and the circuit breaker is turned OFF.



Prior to installation, test for live circuits or wiring inside the wall before cutting or drilling into the wall. Before working near any electrical circuit or wiring, remove all power and use a circuit tester to verify the power has been disconnected. Contact with live electricity can cause serious bodily injury and in some cases death.

CAUTION

These cautions indicate a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. Follow all instructions related to installation and/or maintenance of this product.

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 Filter meets this requirement.



Tripping Hazard

Personal injury can result from tripping over power cords, tools, or other installation items. DO NOT leave items laying around the work area.



Cutting Hazard

The installation of this product requires using power tools.

Keep hands away from the cutting edge of any tool used in the installation of our product.

Placing fingers in or around the cutting blades could result in serious personal injury.



Use Proper Tools

Always use proper tools which are in good working condition during the installation of the product.

2.4 Property Damage

NOTICE



Inspect Before Cutting

Make sure no electrical wiring or plumbing is present before cutting into a wall.

3. Installation Preparation - Read Before Beginning 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.
- Ensure proper ventilation by maintaining clearance from cabinet louvers to wall on each side of Cooler as specified in Rough-In.
- Thoroughly flush all water lines and fittings of all foreign matter before connecting to Cooler.
- 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 105 psig (0.72 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.
 - Water Shut-off Valve with 3/8" (9.5mm) compression outlet.
 - Waste Trap (non-metallic)
 - Safety Glasses
 - Protective Gloves
 - Hex drives
 - Fasteners for wall type

NOTICE

The installation of this product requires electrical and plumbing connections that use specific skills and knowledge. If you are unsure or not qualified to make these connections, consult a qualified plumber, electrician, or installer for this installation. Professional installation is recommended.

1. This water dispenser is designed for indoor use only and should not be installed outdoors or in a humid environment. This water dispenser should not be installed on exterior walls.

NOTICE

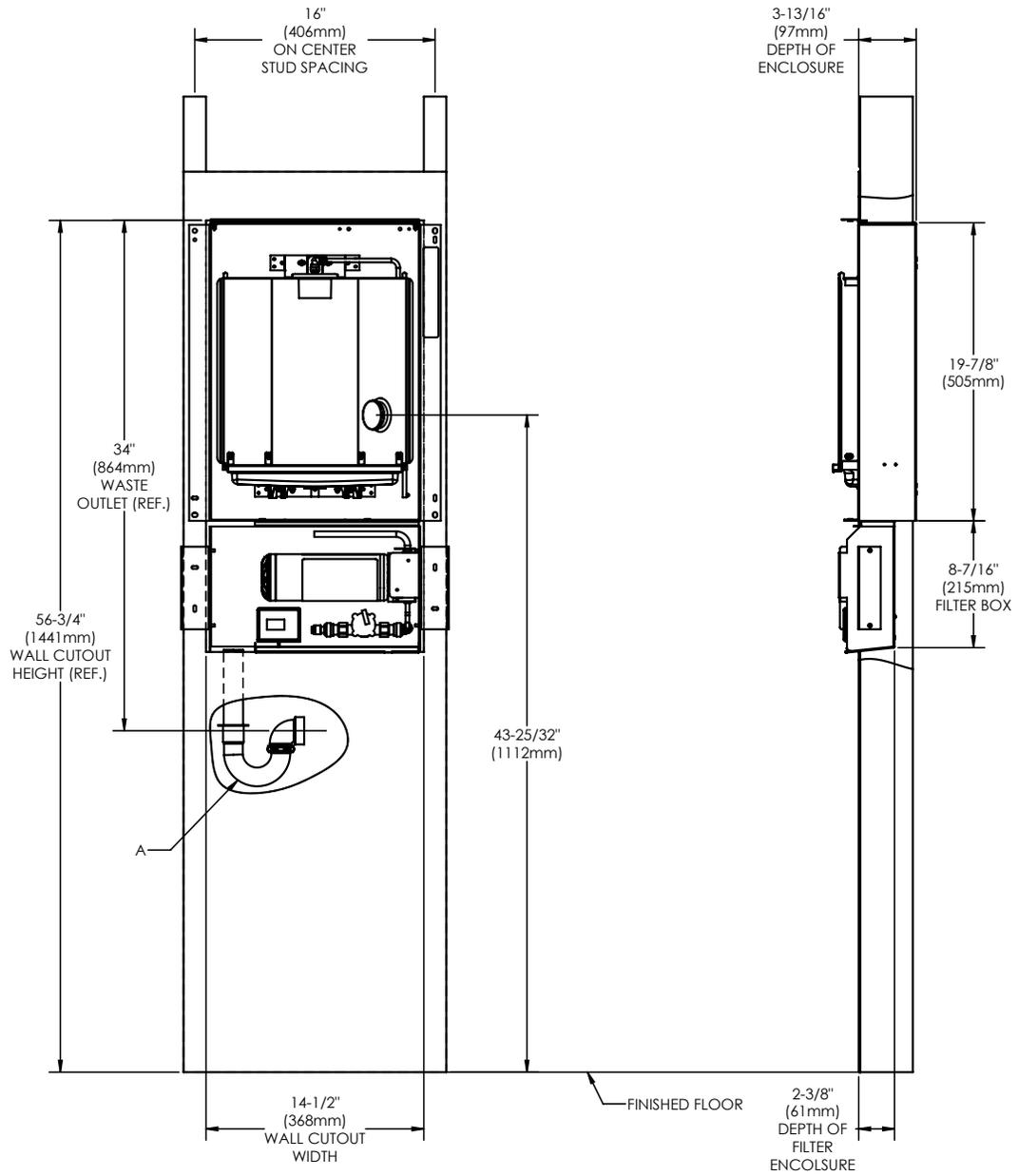
A water supply pressure below 40 psi will result in decreased water flow through the unit and damage to the product. A pressure above 105 psi will also cause damage to the product.

2. Make sure the water supply pressure to the product is between 20 and 105 psi. The water dispenser with filter requires 20 psi minimum water pressure. The optimum water pressure is 60 psi.
3. Use care when opening and removing the packaging to prevent damage to the product.
 - a. Inspect the product for any shipping damage and report it immediately to the location of purchase. Installation of a damaged product will void the warranty.
 - b. Refer to part list on page 14 to confirm that all parts have been included for the proper installation of this product. Contact the location of purchase if damaged parts are found.

NOTICE

Make sure no electrical wiring, potable water inlet pipes, or drain water outlet pipes will be damaged during installation of the product. Damage to any of these items can cause electrical damage, fire, and/or water damage.

4. Shut off the water supply source and disconnect power to the electrical circuit being used to operate the product before starting the installation.



LEGEND:

A = RECOMMENDED LOCATION FOR WASTE OUTLET (OPTIONAL), 1-1/4" (32mm) TRAP NOT FURNISHED.

Figure 1 - Rough-in Dimensions

4. Installation

4.1 Tools Required

Tool	Used For
Tape Measure	Locate the mounting opening.
Wall Cutting Tool	Remove section of wall to insert unit.
Level	Proper mounting into the wall cavity.
Phillips Screw Driver	Remove electrical box cover.
Various Plumber's Hand Tools	Connecting unit's plumbing to the household water source and waste drain.
3/32" Allen Wrench	Remove the front covers.

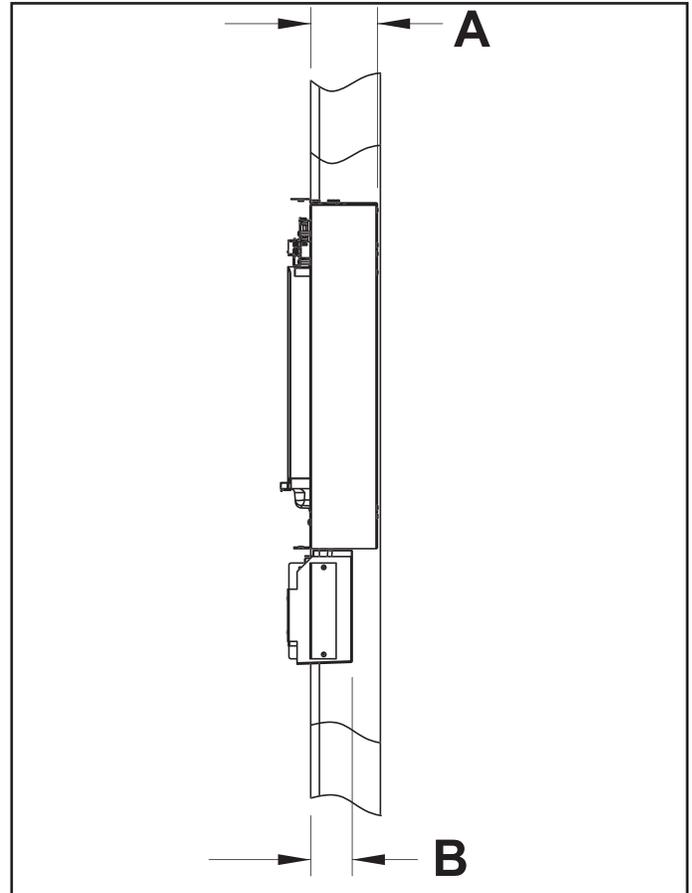
4.2 Parts Required not Included

Description	Qty.
#8 Flathead Screws 1-1/4" long.	8
Water	
3/8" flexible water tubing (copper or plastic) (insulated).	—
Quarter-turn shut off valve at the location of the water source.	1
1/4" copper or plastic tubing if a remote filter is installed (insulated)	15 feet or less
Optional Catch Basin Drain	
1-1/4" P-trap and related parts.	—
Plumbers Putty	—

4.3 Critical Depth Check

1. Make sure the wall cavity is deep enough to house the water dispenser (dimension A).

Dimension A is a minimum requirement.



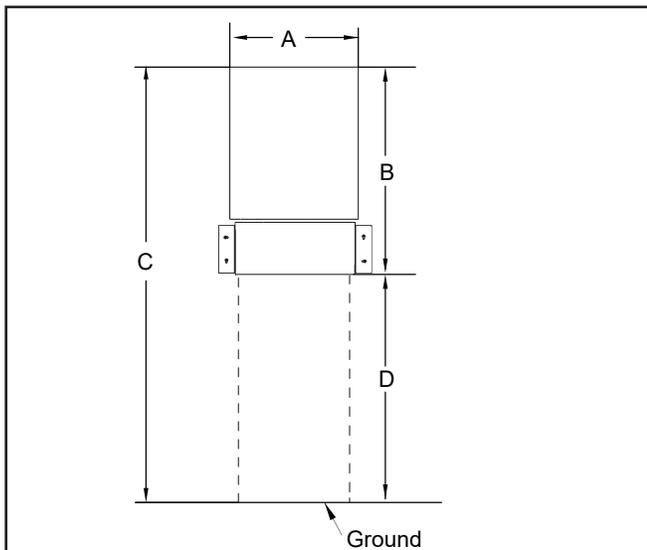
Water Dispenser

A) 3-7/8" (97 mm) deep.

Filter Box Unit

B) 2-3/8" (61 mm) deep

4.4 Cutting Size and Mounting Dimensions



Recommended Dimensions

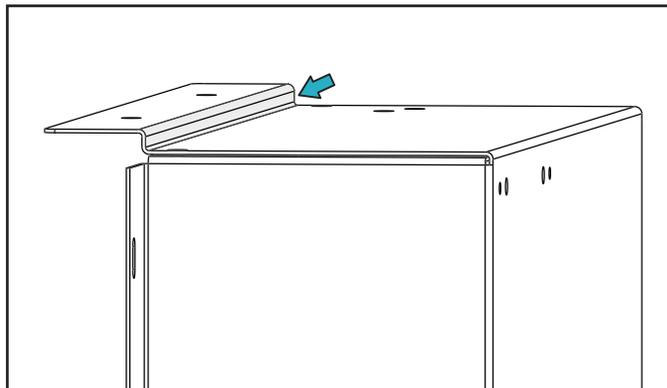
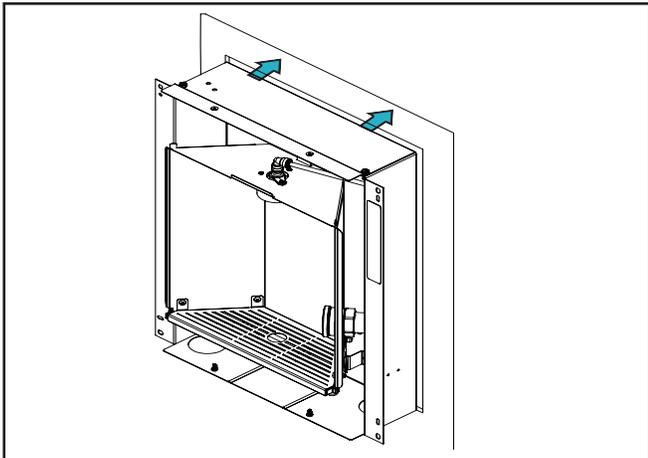
- A - Unit width opening should be 14-1/2" (368 mm) wide**
- B - Unit height opening should be 28-5/16" (719mm) high**
- C - Suggested unit height from the floor is 56-3/4" (1441 mm)**
- D - Optional cut from bottom of water dispenser to floor for plumbing and electrical access.**

4.5 Water Dispenser Installation

Use the following sections to install the water dispenser and filter box.

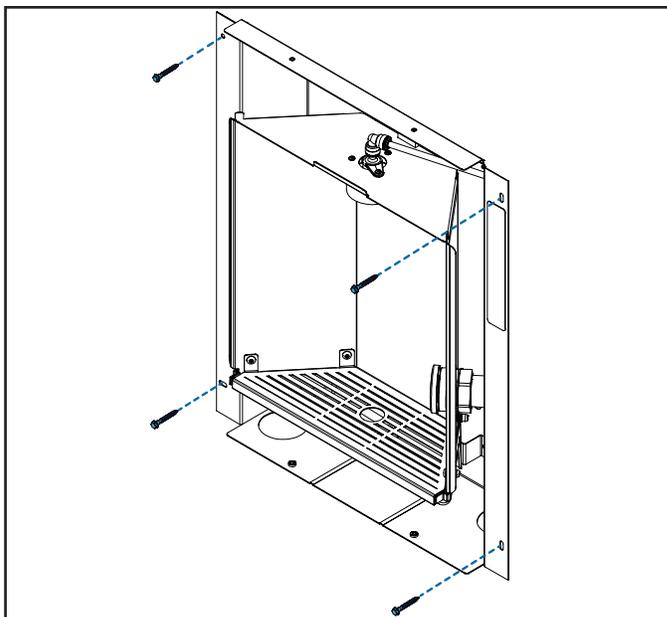
4.5.1 Installing Water Dispenser

1. Cut the opening into the wall using the recommended mounting dimensions as a guide. (See above figure cutting size and mounting dimensions).
2. Place the unit into the wall cavity and slide it up against the drywall at the top of the opening. The unit is designed with 1/4" overlap to conceal any irregularities at the top of the wall opening.



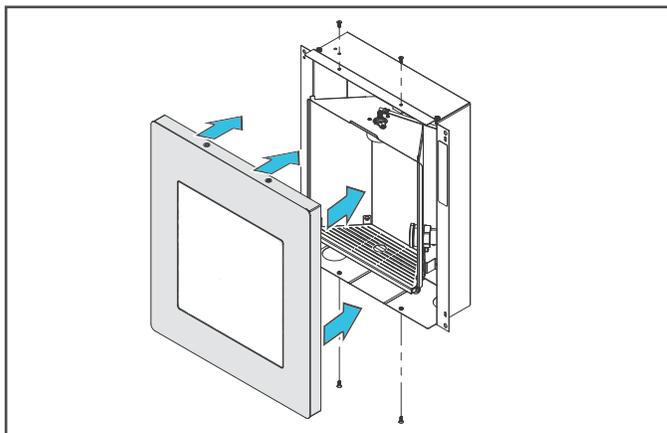
Note: A 1/4 inch offset helps conceal any irregularities at the top of the wall opening.

3. Using a bubble level, straighten the water dispenser and attach it to the wall studs using four #8 flathead screws.



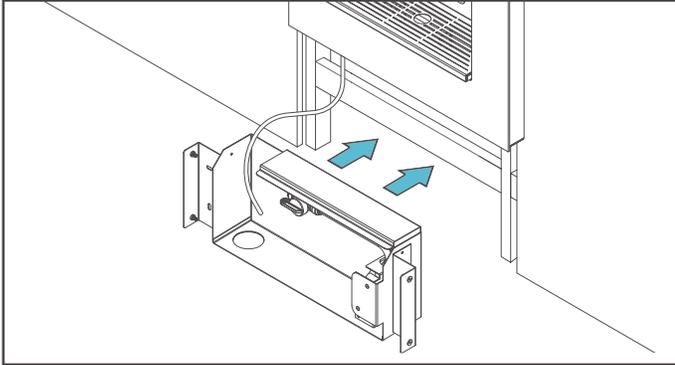
4.5.2 Installing the Filter Box

1. For installation of the filter box below the water dispenser, first replace the front cover of the water dispenser to help locate and align the filter box under the water dispenser.



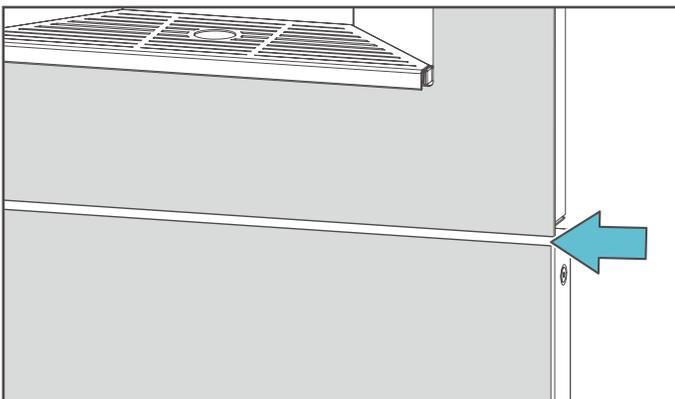
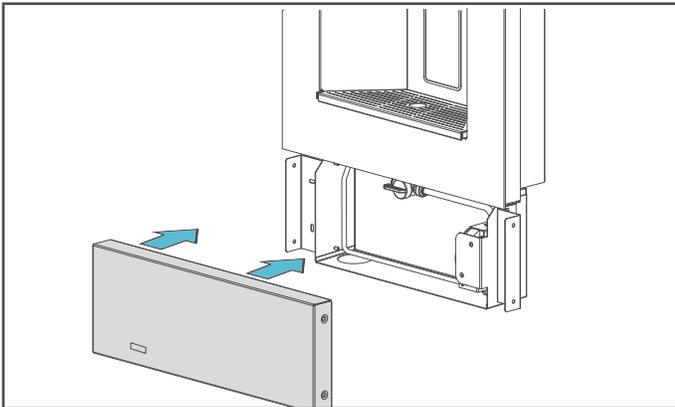
- Place the filter box into the wall opening and slide it up against the bottom of the water dispenser. Make sure the filter box is in alignment with the water dispenser and, using four #8 flathead screws, start the screws to hold the unit in place.

Do not completely tighten the screws until the filter unit cover is installed and the fit between the water dispenser cover and the filter cover is checked.



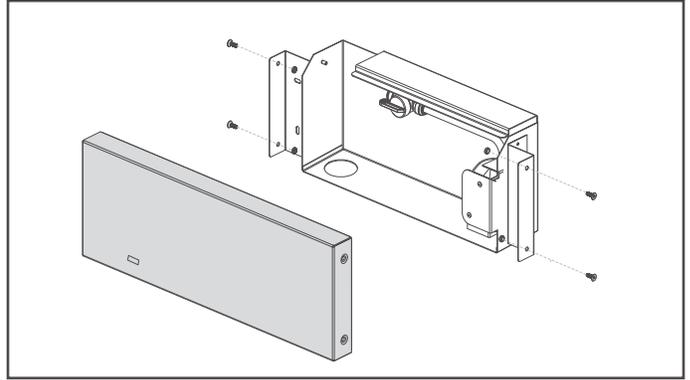
Note: Some side-to-side and up-and-down movement of the housing is capable to accurately align the filter unit with the water dispenser.

- Replace the filter unit cover and check the gap between the two covers. Adjust the filter box to create an even gap all the way across the units. Tighten all screws.



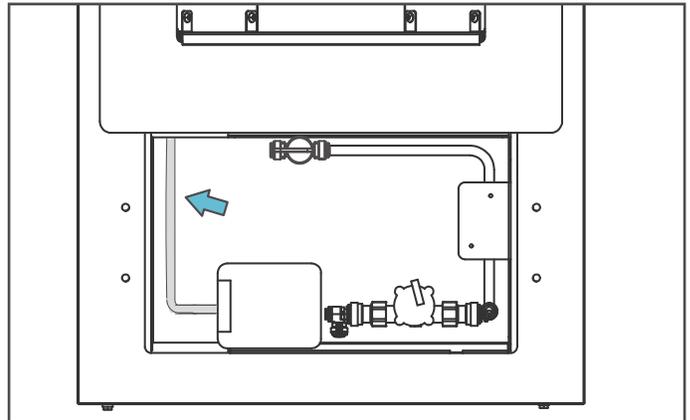
Note: Create an even gap across the entire unit.

- After aligning the two sections, remove the front cover from the filter unit by removing the four flat head screws from the right and left side of the cover using a 3/32 Allen wrench.

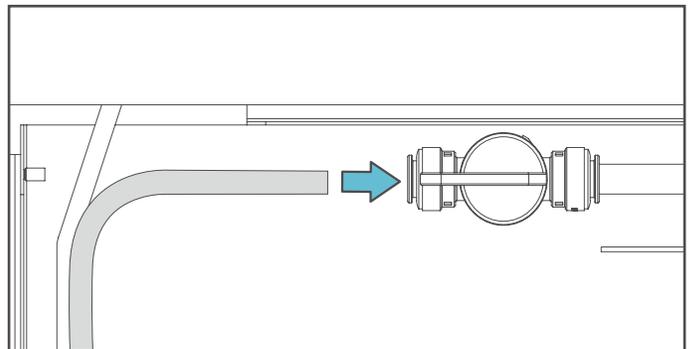


4.5.3 Connecting the Water Lines

- Connect the 1/4 inch water line from the water dispenser to the outlet fitting on the flow meter.



- Connect an installer supplied 3/8" water supply tube to the quarter-turn shutoff valve, as shown. The type of tubing, copper or plastic, should meet all local regulations and building codes.



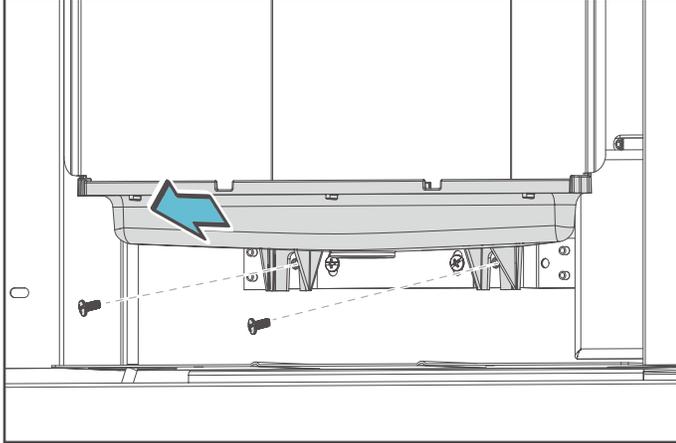
Note: Elkay also recommends installing a shutoff valve at the source of the water supply for the water dispenser.

4.6 Connecting Catch Basin Waste Drain

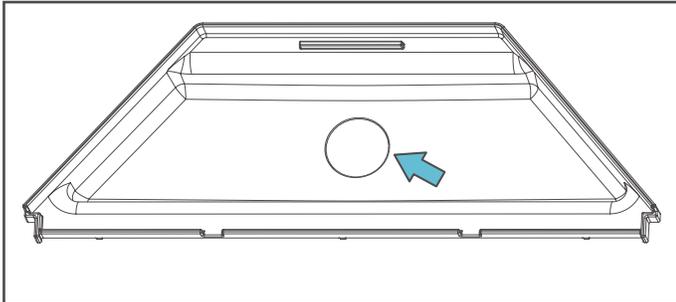
Installing the drain is highly recommended to prevent basin overflow.

The following steps cover the installation of the drain.

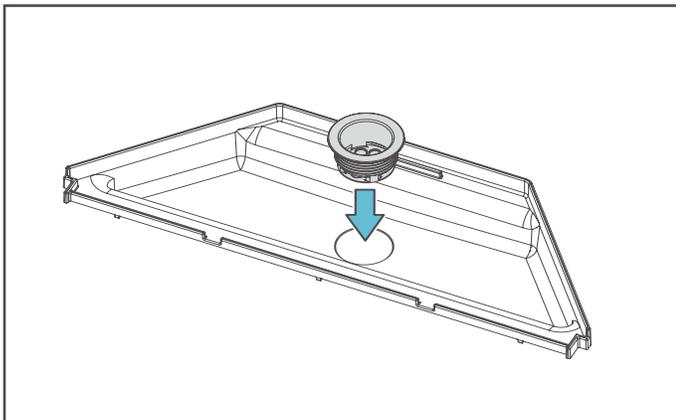
1. Remove the two screws attaching the drain basin to the water dispenser. Remove the drain basin.



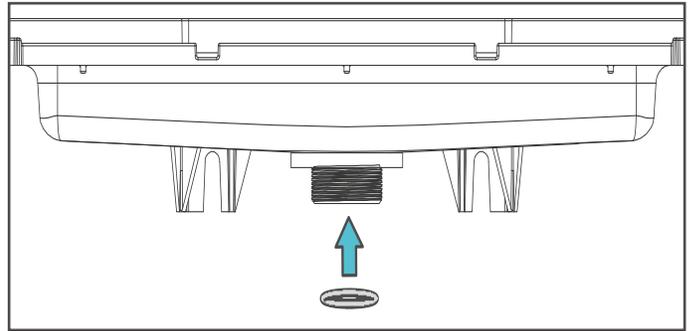
2. Place the drain basin on a flat, hard surface, such as a piece of sacrificial wood. Carefully drill a hole in the basin using a 1" hole saw using the centering-dimple as a guide to center the hole saw. Do not use a 1-1/8" hole saw as this will make the opening too large.



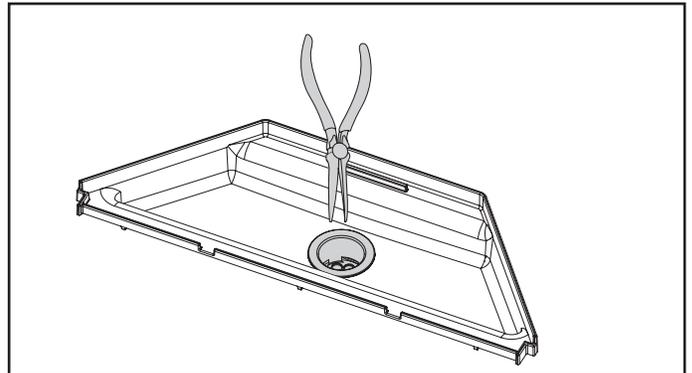
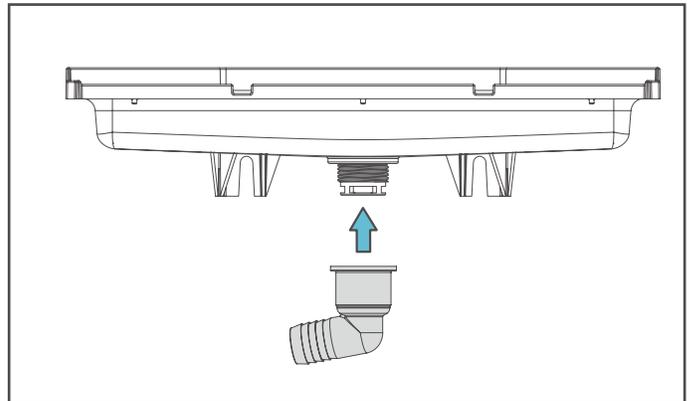
3. Trial fit the strainer. If the strainer does not fit, carefully open the size of the hole. If it fits well, place a small amount of plumbers putty around the lip of the strainer flange and insert it into the hole. If the flange does not fit, carefully open the size of the hole.



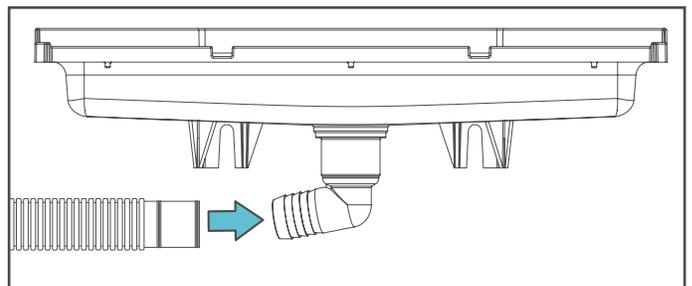
4. Install the O-ring over the strainer threads.



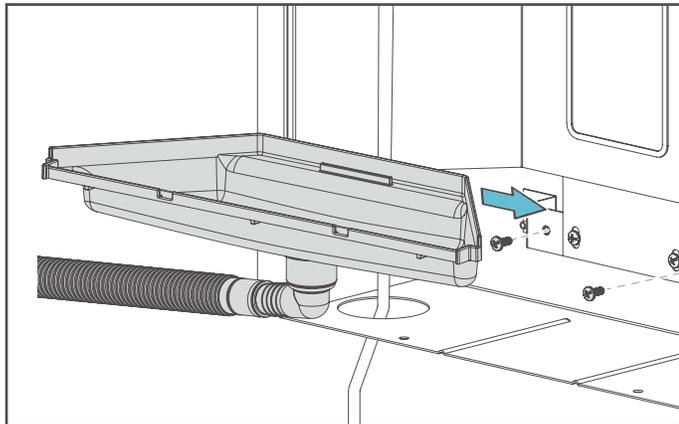
5. Thread the strainer into the drain adapter. Needle-nose pliers can be used to hold the drain adapter from the top while tightening. Tighten the connection to create a watertight seal. The drain adapter must be facing to the left.



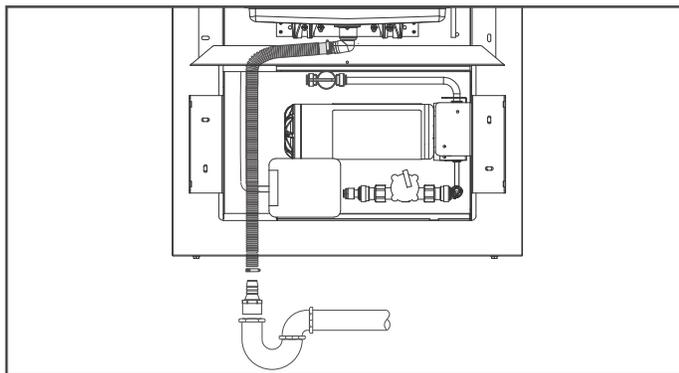
6. Attach one end of the 3/4 inch flexible drain hose to the 3/4 inch barbed drain adapter connection using the supplied hose clamp. The supplied flexible drain is 13 inches long. If a longer drain hose is required, it must be installer-supplied.



7. Place the drain basin back into the water dispenser and reinstall the two screws.



8. Route the drain hose through the filter box and attach the other end to the p-trap drain adapter using a hose clamp. The drain adapter is designed to be glued into a 1-1/4 inch PVC pipe.



9. Connect the drain adapter into the household waste drain pipe.

If the p-trap is located inside a sealed wall, it must have permanently-glued joints. If the p-trap is in an accessible location, a standard non-glued p-trap is acceptable.

Note: Always consult local plumbing codes prior to installation.

10. Install metal grate cover using the 4 Screws. Do not install the drip tray since the unit is plumbed into the household waste line

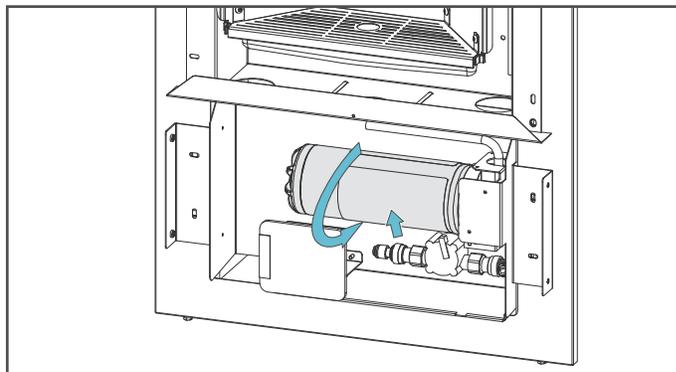
4.7 Installing the Filter Monitor

Remove the filter monitor from the bracket in the filter box and insert the supplied batteries. Once installed, the monitor will light up. The monitor can now be put back on the bracket. Make sure it is positioned so that it can be viewed thru the window in the front cover once it is installed.



4.8 Installing the Filter

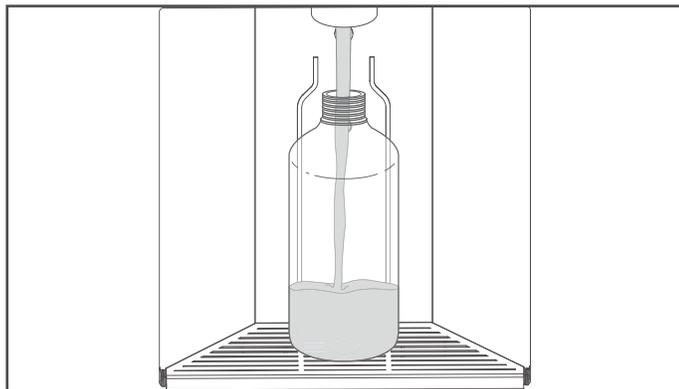
Attach the filter cartridge to the filter head by inserting firmly into the filter head, turning clockwise to install. Continue to start up instructions.



Note: Always consult local plumbing codes prior to installation.

5. Startup

1. Open the shutoff valves in the filter box and water supply. Check for any water leaks.
2. Place a container under the water dispenser. Press the button and dispense at least one gallon of water to bleed off any trapped air from the supply lines and filter as well as flush any fine carbon particles from the filter.



3. If there are no leaks and the unit is functioning correctly, install the water dispenser's front cover using the flathead screws and a 3/32" hex wrench. Installation of the water dispenser is complete.
4. Install the filter box cover using the flathead screws and a 3/32 inch Allen wrench.
5. Once the installation is complete, the water has been turned on, and any trapped air has been bled from the system re-check for any water leaks.
6. Enjoy fresh filtered water with your new Elkay Water Dispenser.

5.1 Operating Instructions for the Filter Monitor

The filter monitor backlight automatically turns on when there is water flowing through it. The blue backlight will turn off after approximately 10 seconds but will display the remaining capacity the entire time water is flowing. To conserve battery life, the display will automatically turn off in 10 seconds when there is no water flowing. The power of the two batteries will last for approximately one year.

The flow meter will generate an audible alert and the digits on the LCD will blink red when the remaining capacity reaches zero.

To reset, press the reset button for four seconds. The "RESET" on the LCD will blink twice and the remaining capacity will reset to the originally programmed value.

When the battery power is low the monitor generates an audible alert and the empty battery symbol on the upper right corner will blink. The alert status will be released when the batteries are replaced. NOTE: data from the last status will be memorized when powered off.

Programming Filter Monitor Capacity

Press "PROG" button, until "PROG" blinks on the LCD screen. Then press "RESET" to program the filter gallon capacity. Scroll to select each number within the gallon capacity. Once the first number is chosen, press the "PROG" button to save the number and go to the next digit. Repeat the above process to program up to five digits from right to left.

* If there is no input for one minute during the programming period, programming will be terminated and system will default to its original status.

6. Service

REPLACEMENT PART LIST		
ITEM NO.	PART NO.	DESCRIPTION
NS	98546C	Kit - Aerator Replacement
NS	1000004698	Fitting - Hose to Trap
1	2000001260	Kit - Alcove
2	1000005392	Kit - Drain
3	56331C	Connector
4	70793C	Elbow 1/4 O.D. X 90
5	50985C	Regulator Holder
6	45960C	Push Button
7	45663C	Push Button Sleeve
8	75672C	Screw - Cap #6-32 X 5/16
9	40045C	Hex Nut
10	28308C	Washer - Spacer 2.00 OD
11	45736C	Nut - Reg Mount
12	10031C	1-1/8-24 Retaining Nut
13	66822C	Regulator Assy. (1.0GPM)

NS = NOT SHOWN

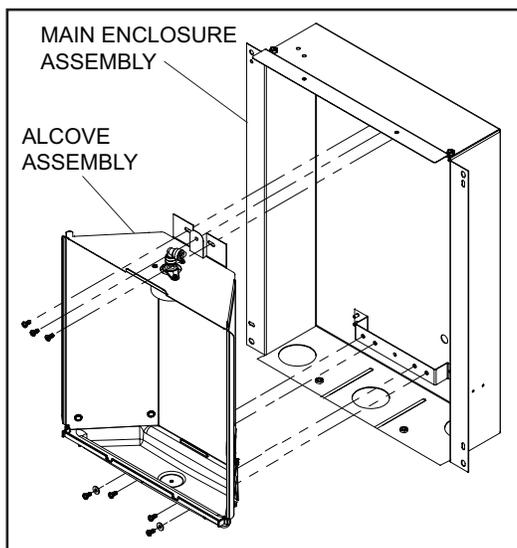


Figure 2

Main Enclosure and Alcove Assembly

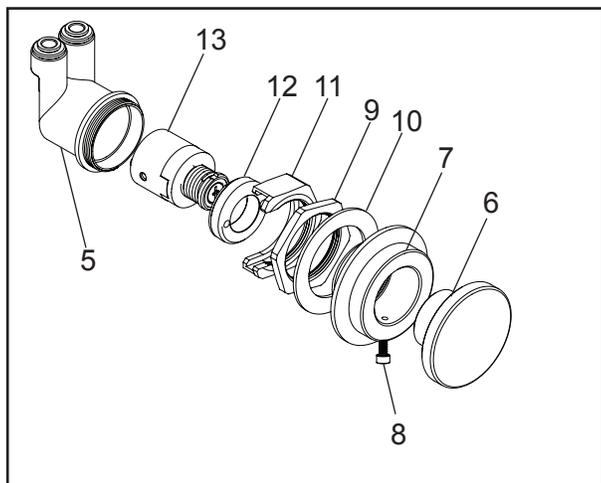


Figure 3

Bottle Filler Push Button Assembly

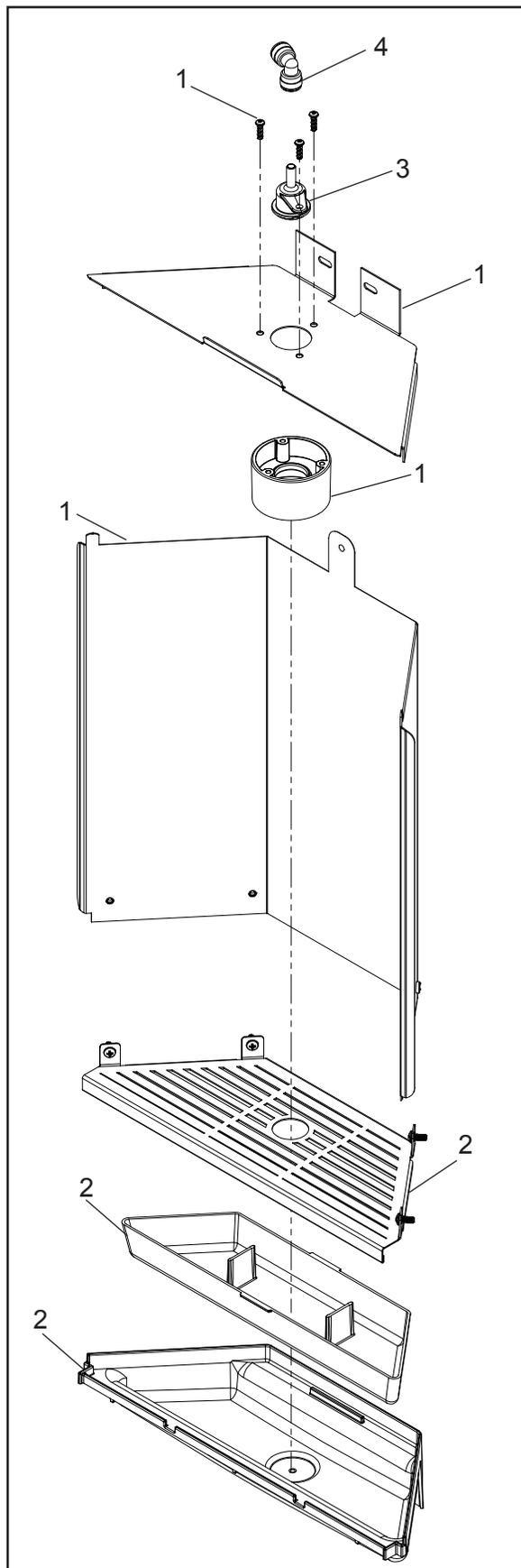


Figure 4

Alcove Assembly

Installation Package

The components for installation are packed in one box.

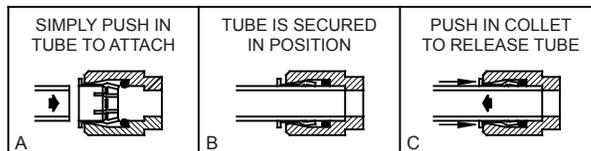
Additional materials, as noted in the Parts List, are also shipped in these boxes.

TROUBLESHOOTING & MAINTENANCE

Orifice Assembly: Mineral deposits on orifice can cause water flow to spurt or not regulate. Mineral deposits may be removed from the orifice by poking with a small round file not over 1/8" diameter, or using a small diameter wire.

CAUTION: DO NOT file or cut orifice material.

OPERATION OF QUICK CONNECT FITTINGS



PUSHING TUBE IN BEFORE PULLING IT OUT HELPS TO RELEASE TUBE

Figure 5 – Quick Connect Fittings

Actuation of Quick Connect Water Fittings: Cooler is provided with lead-free connectors which utilize an o-ring water seal. To remove tubing from the fitting, relieve water pressure, push in on the gray collar while pulling on the tubing. (See Fig. 5) To insert tubing, push tube straight into fitting until it reaches a positive stop (approximately 3/4").

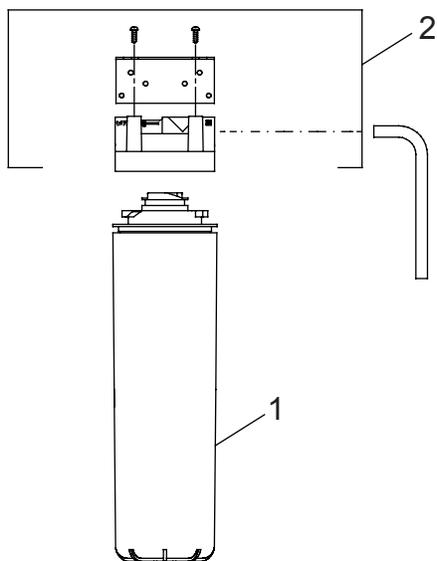


Figure 6
Filter Parts Detail



Scan for troubleshooting information and to subscribe to automatic filter replacements at a discount.

ITEMIZED PARTS LIST		
Item No.	Part No.	Description
1	51300C	Filter Assembly 3000 Gallon
2	0000000746	Assy - Filter & Bracket Includes Filter Head/Mtg Bracket/Screws

