



DRINKING FOUNTAINS

INSTALLATION/MAINTENANCE INSTRUCTIONS

A151.8FG Series

Barrier Free, 14 Gage Stainless Steel Wall Mounted Electric Drinking Fountain



A151408S-FG / A151408F-FG

TECHNICAL ASSISTANCE TOLL FREE TELEPHONE NUMBER:
1.800.591.9360

Technical Assistance Fax: 1.626.855.4894

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.

LIMITED WARRANTY - UNITED STATES & CANADA

Murdock warrants that every cooler, bottle filling station, packaged water chiller, fountain and accessory to be free from defects in material and workmanship under normal use for one (1) year from date of install or eighteen (18) months after the date of shipment from the factory, whichever comes first.

Murdock warrants the compressor and hermetically sealed refrigeration system, including cooling coil assembly when part of the hermetically sealed refrigeration system, to be free from defects in material and workmanship under normal use for an additional four (4) years from the end of the one (1) year period described above.

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.

Murdock assumes no responsibility for use of void or suspended data. © Copyright Murdock, City of Industry, CA Member of Morris Group International. Please visit www.murdockmfg.com for most current specifications.

COMPLIES WITH
STANDARDS



Federal Public Law 111-380 (No Lead)

Test rating conditions are compliant with ARI 1010.



Member of
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INTERNATIONAL

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Date: 07/18/18



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INSTALLATION/MAINTENANCE INSTRUCTIONS

IMPORTANT

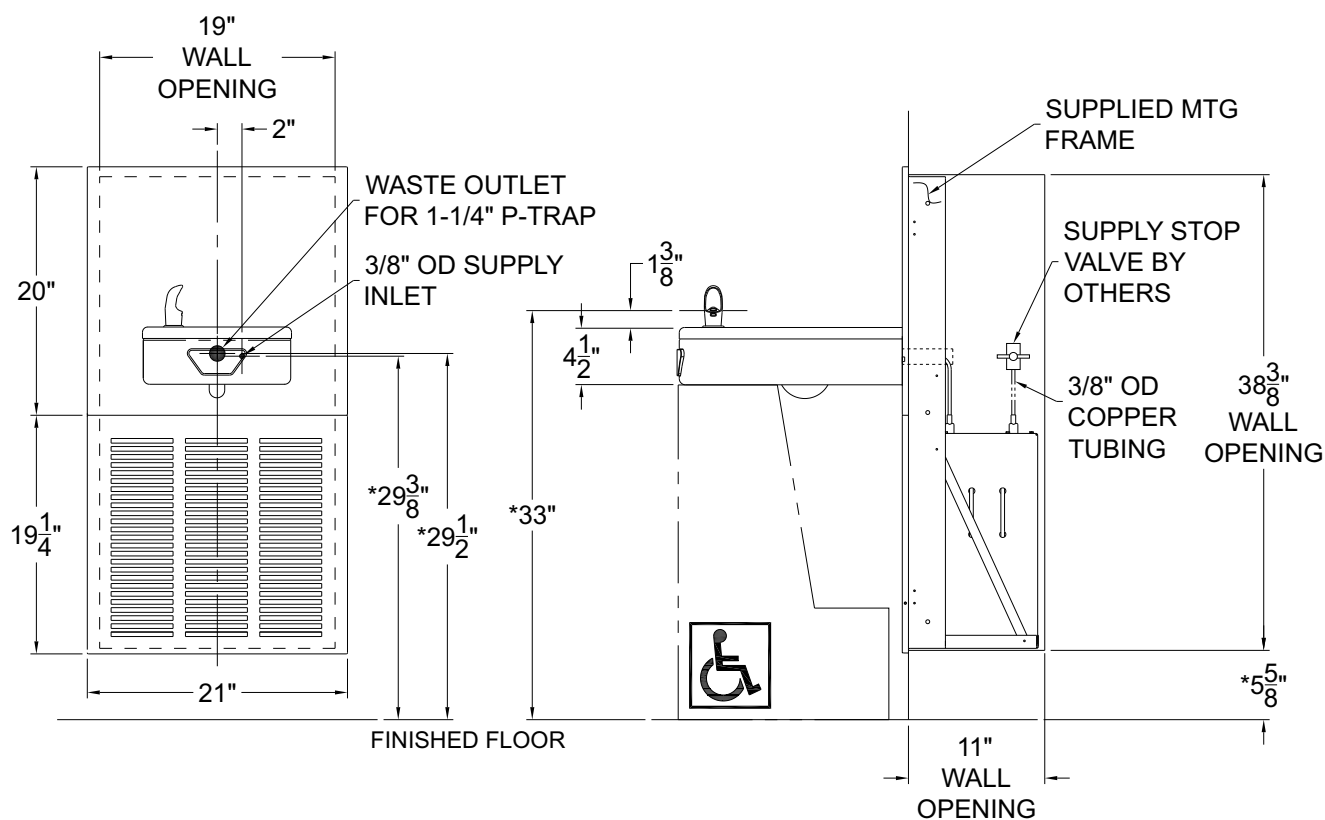
This fixture is intended to dispense water that has been lowered in temperature, but otherwise remains unchanged by the materials in the drinking fountain. It is common for electrical equipment to be grounded to water lines either within a structure or away from it. Every attempt should be made to prevent 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 drinking fountain to meet this requirement.

ROUGHING-IN AND DIMENSIONAL DRAWING

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



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
3. WATER LINE FROM CHILLER TO FOUNTAIN SHOULD BE COVERED WITH SPONGE FOAM RUBBER OR ICE WATER TYPE INSULATION OF ADEQUATE THICKNESS

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.



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IMPORTANT:

1. Water Supply Service Stop Valve, Water Connections and Electrical Connections to be supplied by others in accordance with local codes.
2. Provide 4" minimum clear space in front of bottom trim panel and above in-wall chiller to allow for proper ventilation.
3. Waste is 1-1/4" Outer Diameter. Chiller water inlet is 3/8" Outer Diameter copper tube. Chiller water outlet is 3/8" Outer Diameter copper tube. Drinking Fountain water inlet is 3/8" Outer Diameter copper tube. Water line by others from in-wall chiller to drinking fountain must have adequate insulation.
4. Completely flush supply lines of all foreign debris before connecting to fixture. Water cooler designed to not cause problems with taste, odor, color, or sediment. Optional water filter (WF1), is available should any of these problems arise from the water supply.
5. Do NOT solder tubes inserted into the chiller or the fountain strainer as damage to the o-rings on the push-in fittings may result.
6. All burrs must be removed from outside of cut tubes before inserting into strainer or other components.
7. Power supply must be identical in voltage, cycle and phase to that specified on the chiller data plate.
8. This unit must be grounded per the requirements of applicable electrical codes.
9. **WARNING:** Warranty is voided if installation is not made following current Acorn Engineering installation instructions and if components are assembled to the fixture that are not approved by Acorn Engineering.
10. Fixture operates within water pressure range of 20 to 105 psig. Acorn Engineering will not warranty chiller damaged when connected to supply lines with flow pressure lower than 20 psig or higher than 105 psig. A pressure regulator must be furnished by others on supply line if inlet pressure is greater than 105 psig.
11. Due to cold waste water, Acorn Engineering recommends that waste piping supplied by installer be insulated appropriately to prevent excessive condensation.
12. 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.

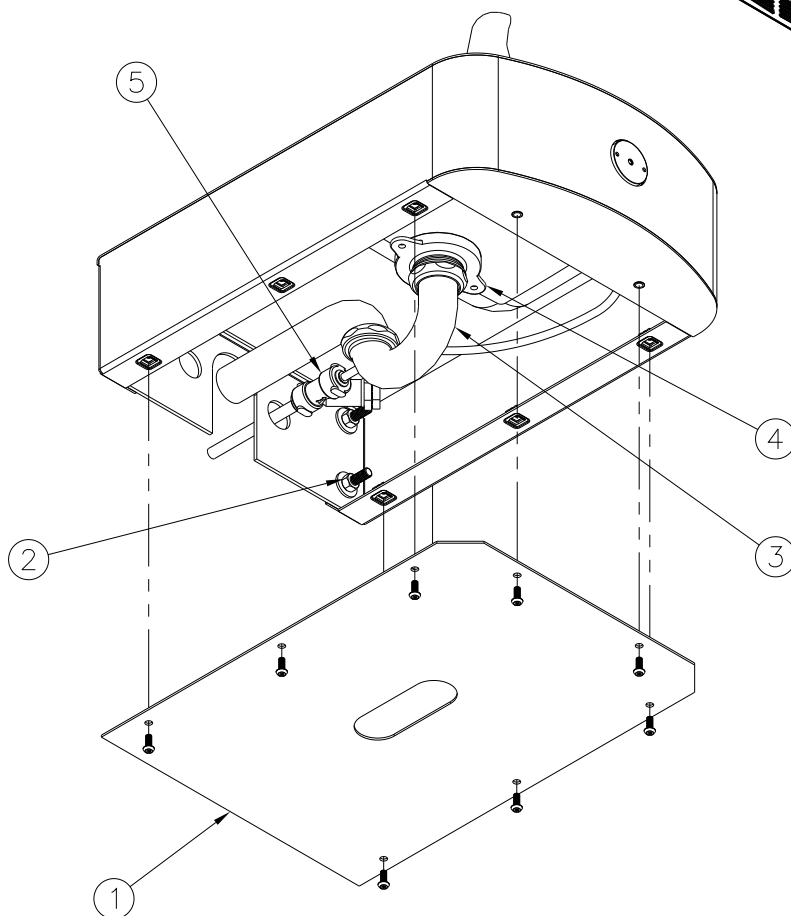
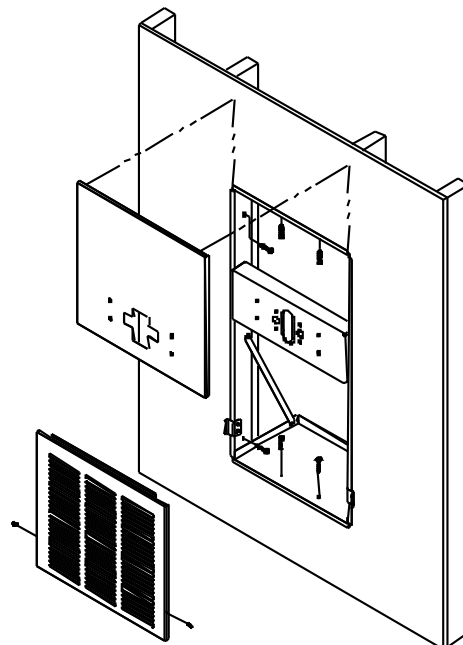


DRINKING FOUNTAINS

INSTALLATION/MAINTENANCE INSTRUCTIONS

INSTALLATION:

1. Install –MF3 Chiller and Drinking Fountain Wall Mounting Frame following the instructions included with the frame.
2. Verify frame chiller shelf is secure and install the chiller following the instructions included with the chiller
3. Hang upper 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.
4. Install the four threaded studs into the Wall Mounting Frame.



5. Remove the drinking fountain bottom access panel (1). Set the access panel aside in a safe place where it will not be damaged and place the screws in a secure location where they will not be lost.
6. Slide fixture over studs and secure with nuts and washers (2).



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INSTALLATION/MAINTENANCE INSTRUCTIONS

7. Remove the drinking fountain bottom access panel ①. Set the access panel aside in a safe place where it will not be damaged and place the screws in a secure location where they will not be lost.
8. Slide fixture over studs and secure with nuts and washers ②.
9. After thoroughly flushing the 3/8" outer diameter supply line, connect water supply to in-wall chiller and provide connection from chiller to drinking fountain in-line strainer ⑤.
10. Reassemble access panel ① to unit with screws previously removed.

START UP:

1. Before connecting power supply, but after thoroughly flushing the supply line and connecting it to the cooler, 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.
5. Provide power to water chiller and make sure unit begins to function.
6. Assemble louvered bottom trim panel with screws provided to brackets on either side of wall mounting frame.

TROUBLE SHOOTING:

IMPORTANT: BEFORE MAKING ANY OF THE REPAIRS LISTED, MAKE SURE THE WATER CHILLER IS DISCONNECTED FROM THE ELECTRICAL SUPPLY AND THE WATER SUPPLY VALVE IS SHUT OFF.

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.

2. Compressor Does Not Run

- a. Check the electrical supply for power and correct voltage. The incoming voltage must be within 10% of the rated voltage on the serial nameplate.
- b. If the cold thermostat capillary bulb loses its charge or becomes kinked it will fail in the open position causing a disruption of power to the compressor. Disconnect electrical supply to the water chiller and using an ohm meter check for continuity across the two electrical terminals on the thermostat. Install a new thermostat if there is no continuity.
- c. Check for loose wires within the compressor box. The incoming power leads must be connected to the overload and relay.
- d. If all components check positive for continuity then test the wiring harness plug for continuity to see if there is a broken wire within the wiring harness insulation.



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INSTALLATION/MAINTENANCE INSTRUCTIONS

- Remove the drinking fountain bottom access panel ①. Set the access panel aside in a safe place where it will not be damaged and place the screws in a secure location where they will not be lost.
- Slide fixture over studs and secure with nuts and washers ②.
- After thoroughly flushing the 3/8" outer diameter supply line, connect water supply to in-wall chiller and provide connection from chiller to drinking fountain in-line strainer ⑤.
- Reassemble access panel ① to unit with screws previously removed.

START UP:

- Before connecting power supply, but after thoroughly flushing the supply line and connecting it to the cooler, turn on building water supply and check all connections for leaks.
- 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.
- 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.
- Recheck all water connections with water flowing through system.
- Provide power to water chiller and make sure unit begins to function.
- Assemble louvered bottom trim panel with screws provided to brackets on either side of wall mounting frame.

TROUBLE SHOOTING:

IMPORTANT: BEFORE MAKING ANY OF THE REPAIRS LISTED, MAKE SURE THE WATER CHILLER IS DISCONNECTED FROM THE ELECTRICAL SUPPLY AND THE WATER SUPPLY VALVE IS SHUT OFF.

1. Adjustments

- Cartridge – The water flow can be adjusted using a slotted narrow blade screwdriver and turning clockwise to increase flow and counterclockwise to decrease flow.
- Cold Water Thermostat – The water temperature can be adjusted using a slotted screwdriver and turning clockwise to make colder and counterclockwise to make warmer.

2. Compressor Does Not Run

- Check the electrical supply for power and correct voltage. The incoming voltage must be within 10% of the rated voltage on the serial nameplate.
- If the cold thermostat capillary bulb loses its charge or becomes kinked it will fail in the open position causing a disruption of power to the compressor. Disconnect electrical supply to the water chiller and using an ohm meter check for continuity across the two electrical terminals on the thermostat. Install a new thermostat if there is no continuity.
- Check for loose wires within the compressor box. The incoming power leads must be connected to the overload and relay.
- If all components check positive for continuity then test the wiring harness plug for continuity to see if there is a broken wire within the wiring harness insulation.



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3. Compressor Runs – Water Is Warm
 - a. The most common cause for a water chiller to run without producing cold water is a loss of refrigerant. The water chiller must be taken to a certified refrigerant technician for repairs.
 - b. Make sure the condenser fan motor is operative. The fan blade must turn freely to help remove the heat of compression.
 - c. An incorrect refrigerant charge, restriction or defective compressor (not pumping) will also cause the compressor to run without producing cold water. All these signs indicate a problem within the refrigeration system and the water chiller must be checked by an authorized service company.
4. Compressor Cycling On Overload Protector
 - a. A dirty condenser or a blocked fan will cause a high head pressure and frequent cycling of the overload protector.
 - b. Check the incoming voltage to make sure it is within 10% of the serial nameplate rating.
 - c. A restriction or moisture in the system will also cause intermittent cycling. A certified refrigeration mechanic should be contacted in this situation.
 - d. Change the overload or relay if defective.
5. Noisy Operation
 - a. Check to make sure the fan blade is rotating freely.
 - b. Check the compressor mounting to make sure the pins and clips are not rattling. If the compressor appears to be noisy internally, it must be replaced.
6. 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 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. The water chiller 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 chiller needs to be checked by a qualified technician.
7. 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.

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. Do NOT use harsh chemicals, abrasive or petroleum based cleaners. Use of these will void the Acorn Engineering warranty.
5. Exterior panels can be cleaned using mild household detergents or warm, soapy water. Extra care must be used cleaning chrome plated items and mirror finished stainless steel. They can scratch easily and should only be cleaned using a clean, soft cloth and mild soap with water or a mild glass cleaner.



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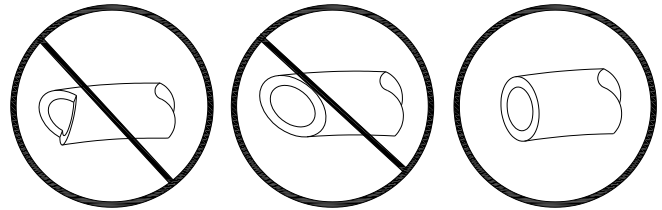
INSTALLATION/MAINTENANCE INSTRUCTIONS

PUSH-IN FITTING INSTALLATION

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

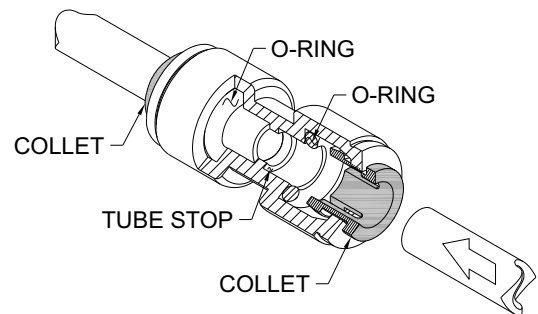
TO CUT TUBE:

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.

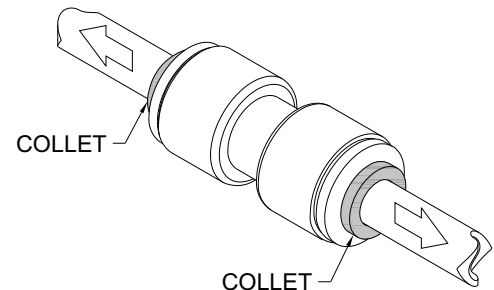


INSERTING THE TUBE:

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

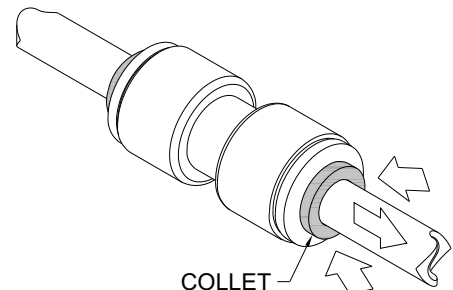


2. Pull on the fitted tubing to ensure it is secure. Tube should not come free from the fitting. Water test the connection assembly prior to leaving the site to ensure there are no leaks.



DISCONNECTING THE TUBE:

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.





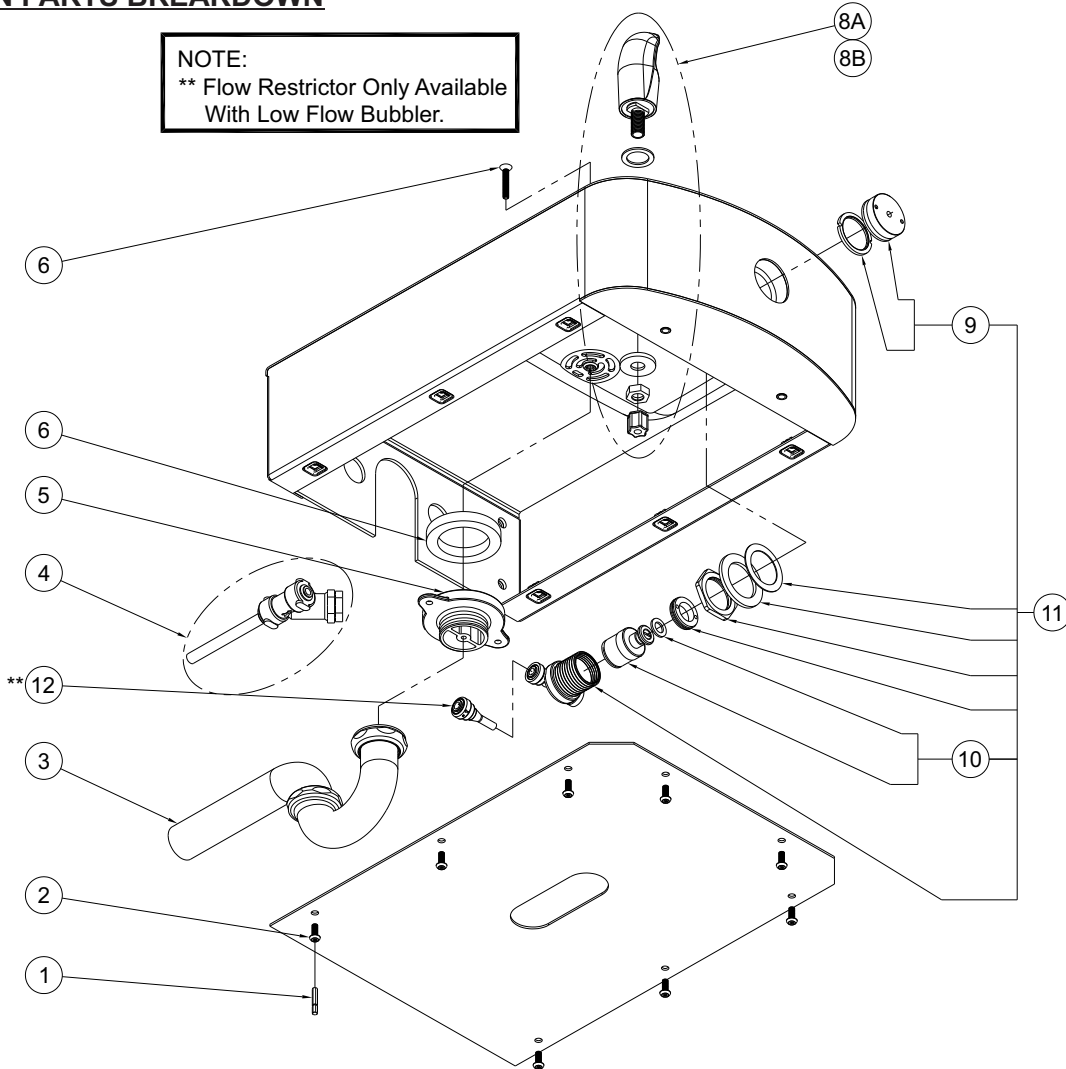
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CHILLER PARTS BREAKDOWN

Reference installation manual included with in-wall chiller for appropriate Chiller Parts Breakdown.

FOUNTAIN PARTS BREAKDOWN



ITEM #	PART NUMBER	DESCRIPTION	ITEM #	PART NUMBER	DESCRIPTION
1	0296-025-199	Center Reject Hex Driver Bit	8A	7000-012-001	Stainless Steel Bubblers Assembly
2	0112-002-000	Center Reject Allen Button Hd Screw	8B	7000-099-002	Flexible Gray Bubblers Assembly
3	7000-015-000	1-1/4" Outer Diameter P-Trap	9	7000-068-001	Retaining Ring & Button Assembly
4	7000-021-000	"Y" Strainer	10	7000-069-001	Valve Cartridge With Foam Washer
5	7000-005-199	Drain Adapter	11	7000-065-001	Recessed Pushbutton Valve Assembly
6	7000-006-000	Flat Drain Adapter Gasket	12	7003-093-001	Flow Restrictor - Low-Flow Bubblers Only
7	0152-010-000	Center Reject Allen Flat Head Screw			

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.