MODEL RBA2729-SERIES RECESSED WATER COOLERS

RBA2729-132	Single Contour Recessed Water Cooler I Flexi-Bubbler
RBA2729-133	Single Contour Recessed Water Cooler I Stainless Steel Bubbler
RBA2729-232	Double Contour Recessed Water Cooler I Flexi-Bubbler [shown]
RBA2729-233	Double Contour Recessed Water Cooler I Stainless Steel Bubbler
RBA2729-332	Double Contour Recessed Water Cooler I Flexi-Bubbler w/ Glass Filler
RBA2729-333	Double Contour Recessed Water Cooler I Stainless Steel Bubbler w/ Glass Filler

WaterMark Lic. #W022317

Quality Management · ISO 9001
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Important:

1. **Some options and changes 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. Prior to roughing-in, consult with local, state, and federal codes for proper mounting height. Installation is to be done in accordance with AS/NZS3500.1 and AS/NZS3500.2
3. Water supply service stop valve, water connections & electrical connections to be supplied by other in accordance with local codes.
4. Completely flush supply lines for all foreign debris before connection to fixture. While the water cooler is designed to not impact the taste, odour and colour of dispensed water, an optional water filter is available should any of these problems arise from the water supply.
5. Do NOT solder tubes inserted into the chiller, bottle filler or the fountain strainer as damage to the o-rings on the push-in fitting 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. Refer to submittal.
8. This unit must be grounded per the requirements of applicable electrical codes.
9. Warning: Warranty is voided if installation is not in line with the latest installation instructions.
10. Fixture operated within water pressure range of 200-500kPa. RBA will not warrant chillers damaged when connected to supply lines with flow pressure below 200kPa or above 500kPa .
11. Due to cold waste water, RBA recommends that waste piping supplied by installer be insulated appropriately to prevent excessive condensation.
12. Provide 102mm minimum clear space on fixture sides to allow for proper ventilation through cabinet louvers. Due to cold waste water, we recommend the trap supplied by installer be insulated to prevent excessive condensation.
13. Receptacle[s] must be wired to an ELCB protected circuit. Fixture must be installed in accordance with AS 3000 [Electrical Installations]
14. Unit is to be installed in accordance with the Plumbing Code of Australia [PCA] and AS/NZS3500. Recess bodies are to be Watermark certified to AS3688. Heated water installations for sanitary fixtures shall comply with the temperature requirements of the PCA and AS/NZS3500.
15. All wall penetrations in wet areas are to be in accordance with NCC Vol.2: Wet Areas
16. It is common for electrical equipment to be grounded to water lines either within a structure or away otherwise remains unchanged by the materials in the water cooler. Every attempt should be made to prevent this kind of grounding from generating feedback into the water cooler creating electrolysis. Electrolysis will cause a metallic taste or cause water metal content to increase.
17. All building water supply systems in which quick acting valves are installed shall be provided with devices to absorb the hammer caused by high pressure resulting from the quick closing of the valve. These pressure-absorbing devices shall be approved mechanical devices. Water pressure-absorbing devices shall be installed as close as possible to the quick closing valve.

Prior to installation

1. Read all installation instructions carefully, before proceeding.
2. Carefully remove all fixture components from packaging, preventing scratching or damage. Inspect fixture to ensure it has not been damaged and all parts are firmly secured.
3. Provide mounting surface sufficient to support the fixture and loads on the fixture.
4. Provide rough-ins as shown on the roughing-in and dimensional drawing, including water supply, drain pipe and gravel drain well. [See rough-in details].

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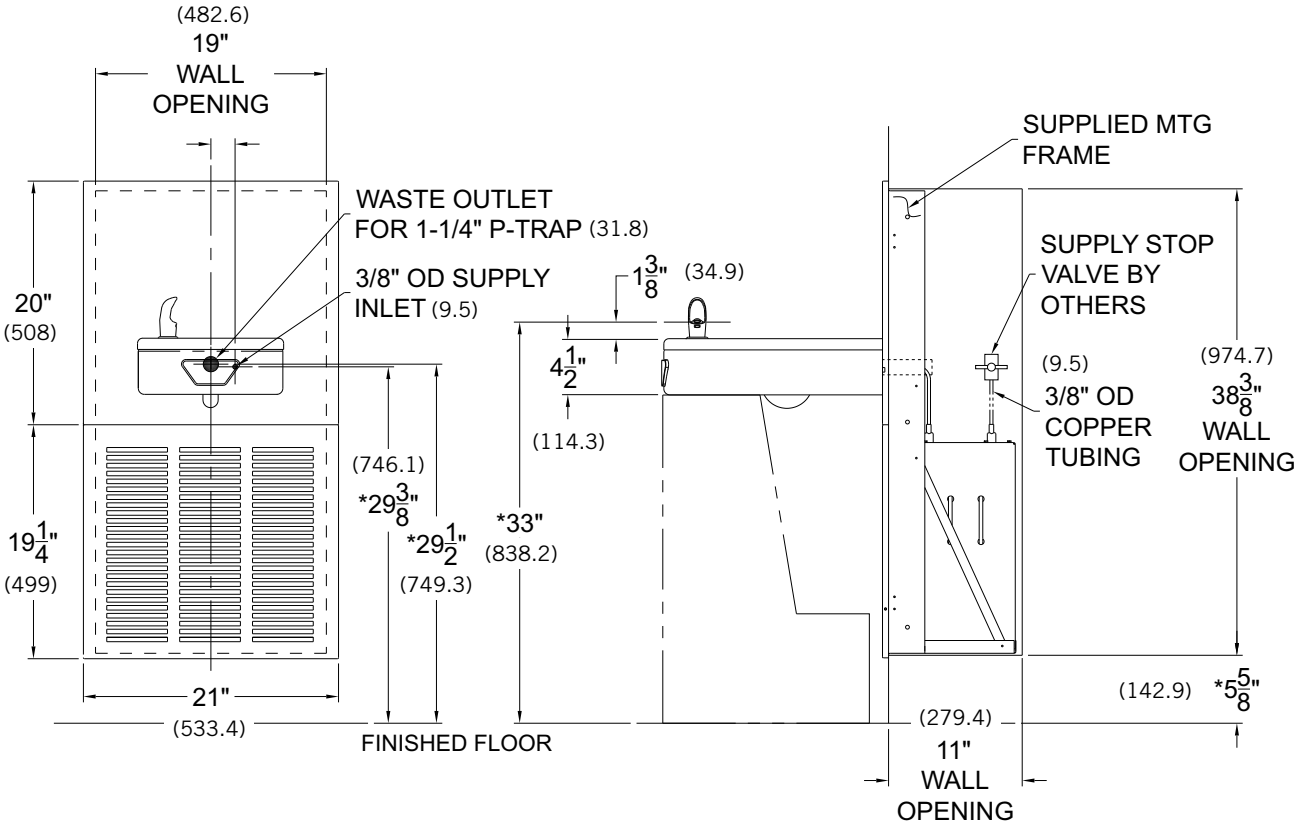
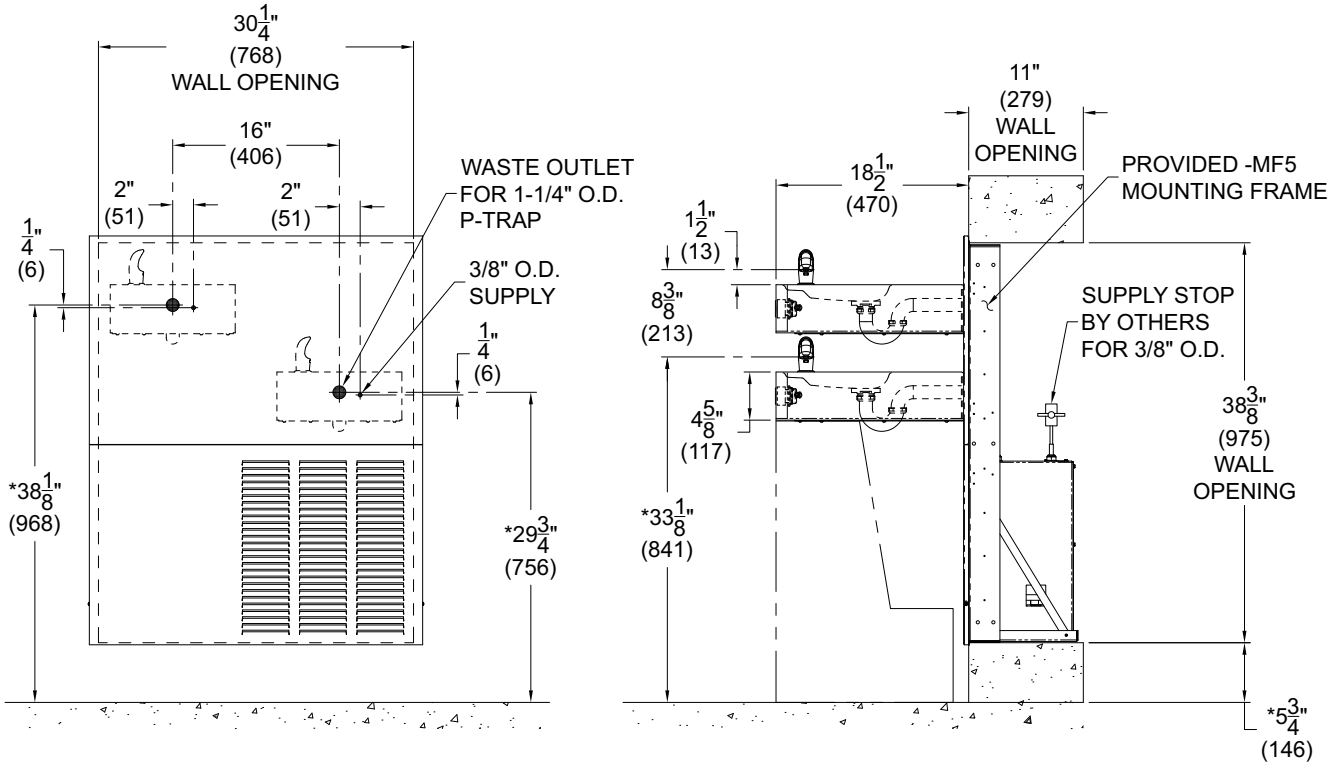
Rough-Ins & Dimensional Drawings

Single Unit



Double Unit



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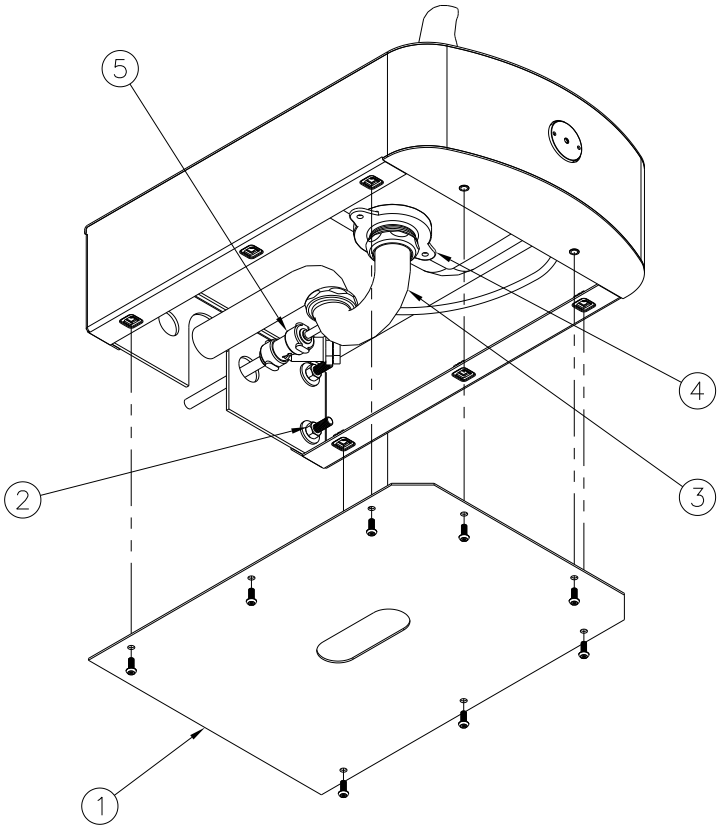
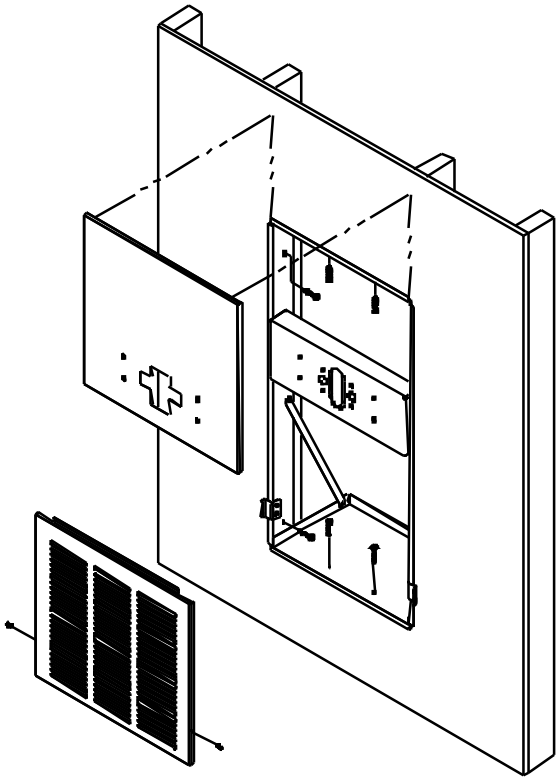
Installation Instructions - Single Fountain





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 25mm 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 panel①. 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 washers②.
7. Remove the drinking fountain bottom access panel①. 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 washers②.
9. After thoroughly flushing the 3/8” [9.5mm] outer diameter supply line, connect water supply to in-wall chiller and provide connection from chiller to drinking fountain in-line strainer⑤.
10. Reassemble access panel①to unit with screws previously removed.

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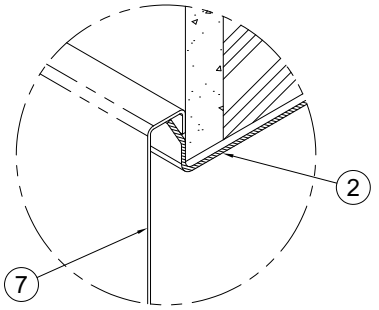
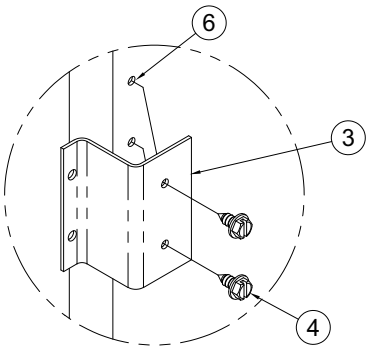
Start Up - Single Fountain

11. 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.
12. 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.
13. 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.
14. Recheck all water connections with water flowing through system.
15. Provide power to water chiller and make sure unit begins to function.
16. Assemble louvered bottom trim panel with screws provided to brackets on either side of wall mounting frame.

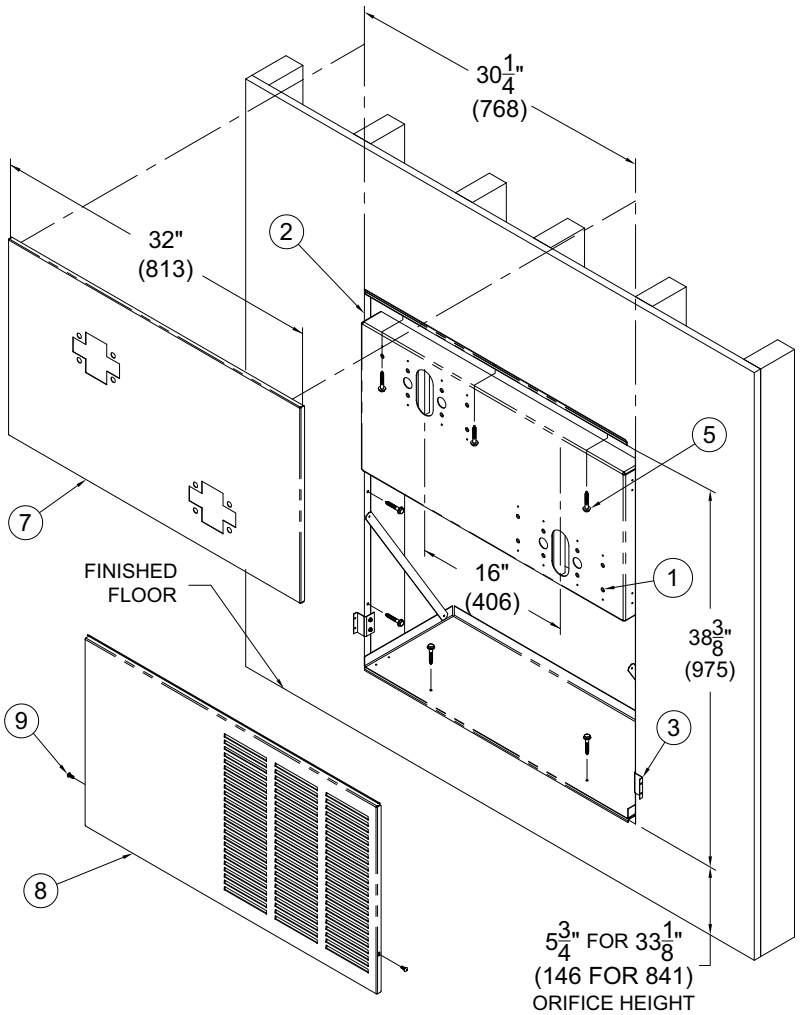
Installation Instructions - Double Fountain

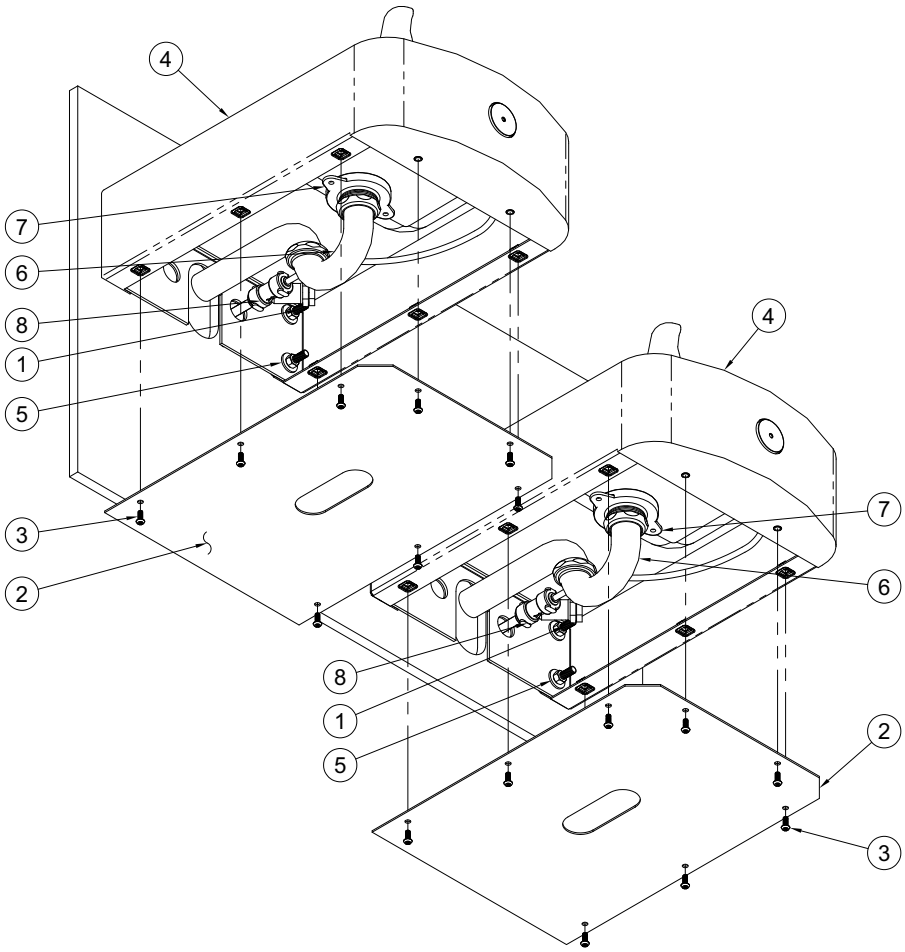


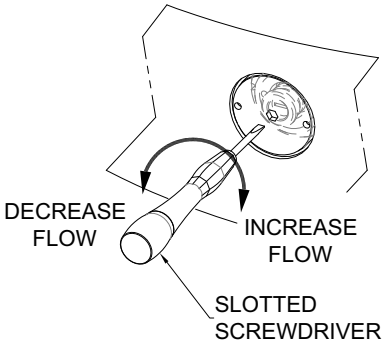
ENGAGEMENT DETAIL



ANCHORING CLIP DETAIL







FLOW ADJUSTMENT

1. Install –MF5 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 25mm 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 studs①into the Wall Mounting Frame.
5. Remove the drinking fountain bottom access panel②. Set the access panel aside in a safe place where it will not be damaged and place the screws③in a secure location where they will not be lost.
6. Slide fixture④over studs①and secure with nuts and washers⑤.
7. Assemble P-Traps⑥to drain adapters⑦on each unit and make up 1-1/4" [31.8mm] outer diameter waste connections.
8. After thoroughly flushing the 3/8" [9.5mm] outer diameter supply line, connect water supply to in-wall chiller and provide connection from chiller to drinking fountain in-line strainer⑧.
9. Reassemble access panel①to unit with screws previously removed.

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Start Up - Double Fountain

10. 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.
11. 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.
12. 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.
13. Recheck all water connections with water flowing through system.
14. Provide power to water chiller and make sure unit begins to function.
15. Assemble louvered bottom trim panel with screws provided to brackets on either side of wall mounting frame.

Troubleshooting

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 it charge or become kinked it will fail in the open position cause 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 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.

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 refrigerant 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 refrigerant mechanic should be contacted in this situation.

d. Change the overload or relay if defective.

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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 200 kPa supply line flow pressure

c. Check for twists or kinks in outlet tubing.

d. Fixture to which chiller is attached might be clogged with foreign material.
NOTE: Strainer screen must be in place for water to flow

e. 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.

f. Check flow adjustment. See start up note #3.

g. 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.

h. No power to transformer connections, loose or wires cut.

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.

8. If Light Within Sensor Does Not Flash When User Is Within Range

a. Verify transformer input and output voltages: 240 VAC input & 9VDC output

b. Replace defective transformer..

c. Transformer polarity crossed. Replace transformer, sensor may be damaged and also need replacement.

d. Sensor in “Security Mode” after 30 seconds of constant detection. Remove source of detection and wait 30 seconds before checking.

e. Sensor is picking up a highly reflective surface. Eliminate cause of reflection and wait 30 seconds before checking.

f. Replace sensor.

9. If Light Within Sensor Lens Flashes Once When Use Is Within Range

a. Repair bad connection from sensor to solenoid.

b. There is debris or scale in the solenoid assembly. Remove solenoid, pull out plunger and spring. Clean with scale remover solution.

c. There is debris or scale in the center or two holes in convolution of the water diaphragm. Remove and clean.

Cleaning & Maintenance Guide

1. Motors have lifetime lubrication and do not require scheduled maintenance.
2. Excess dirt or poor ventilation will cause the compressor overload protector to turn the compressor off and it will cycle on and off with no cold water coming out of bubbler. Periodically clean with vacuum cleaner, air hose or brush the condenser fins and cabinet ventilation louvers. In environments where dirt and dust is more prevalent, clean more frequently.
3. Periodically remove fountain top and clean out in-line strainer.
4. DO NOT use harsh chemicals, abrasive or petroleum based cleaners. Use of these will void the unit 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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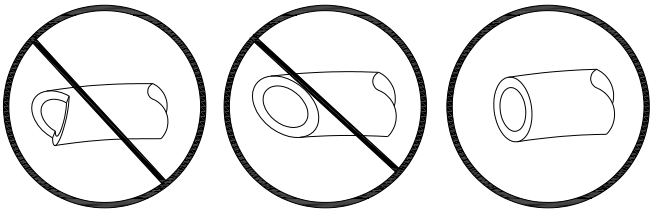
Push-in Fitting Installation

NOTE: Fittings and tube should be kept clean, bagged and undamaged prior to installation.

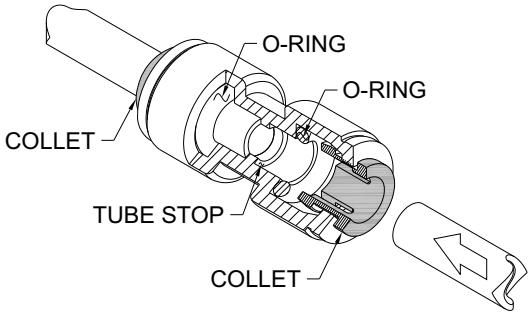
TO CUT TUBE

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.

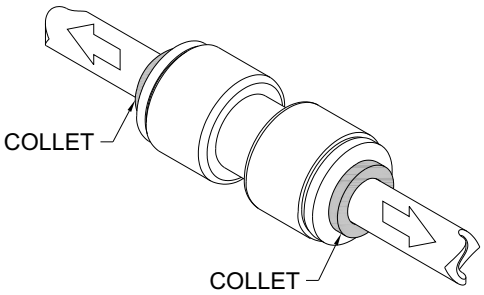


INSERTING THE TUBE

1. Firmly and fully insert the tubing end into the push-in fitting up to the tube stop located approximately ½" deep.

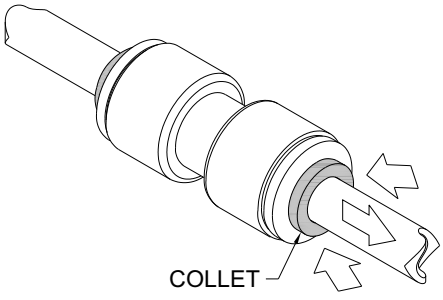


2. Pull on the fitted tubing to ensure it is secure. Tube should not come free from the fitting. Water test the connection assembly prior to leaving the site to ensure there are no leaks.



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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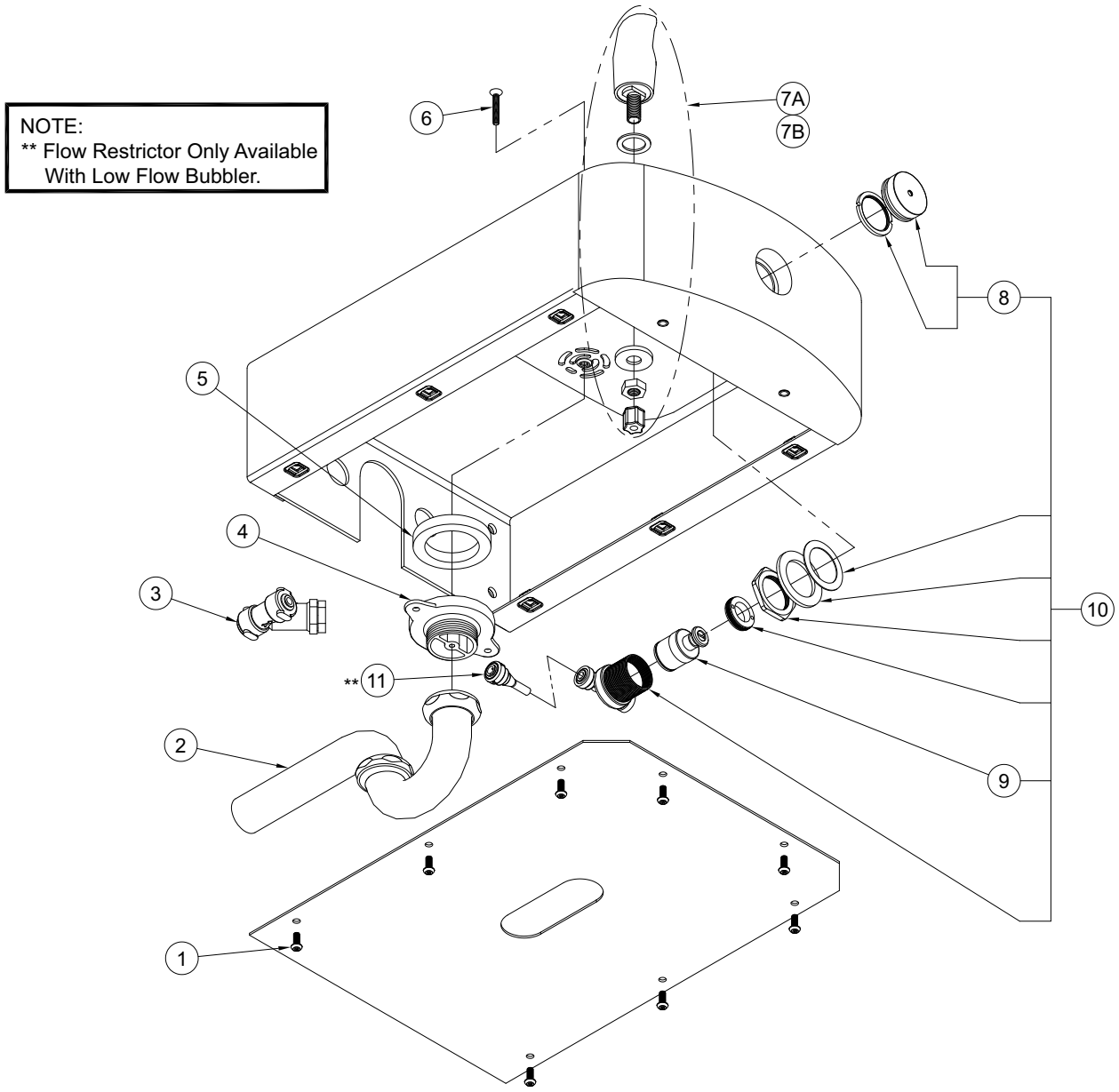
Push Button and Fountain Parts Breakdown



ITEM #	PART NUMBER	DESCRIPTION	ITEM #	PART NUMBER	DESCRIPTION
1	0112-002-000	#10-32 x 1/2" C/R Button Head Screw	7A	7000-012-001	Stainless Steel Bubbler Assembly
2	7000-015-000	1-1/4" O.D. P-Trap Assembly	7B	7000-099-002	Flexible Gray Bubbler Assembly
3	7000-021-002	"Y" Strainer Assemby	8	7000-068-001	Retaining Ring & Button Assembly
4	7000-005-199	Drain Adapter	9	7000-060-000	Valve Cartridge
5	7000-006-000	Drain Adapte Flat Gasket	10	7000-065-001	Recessed Pushbutton Valve Assembly
6	0152-010-000	#10-32 x 1" C/R Flathead Screw	11	7003-093-001	Flow Restrictor - Low-Flow Bubbler Only

NOTE: For Chiller Parts breakdown refer to Chiller Installation, Operation & Maintenance Manual.

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