

MODEL

- RBA2760-001**
- RBA2760-002**
- RBA2760-032**
- RBA2760-033**

RECESSED WATER COOLERS

- Recessed Drinking Fountain w/ Bottle Filler | Flexi Bubbler
- Recessed Drinking Fountain | Stainless Bubbler
- Recessed Water Cooler | Stainless Bubbler
- Recessed Water Cooler | Flexi Bubbler



As improvements in the design and performance of RBA products are continuous, specifications may be subject to change without notice. The illustrations and descriptions herein are applicable to production as of the date of this Installation Instructions Sheet. Revised 07/24 © 2024 by RBA Group II/RBA2729-Series /0724

Technical Data

- Inlet Connection: ½" BSP
- Outlet Connection: 40mm BSP waste
- Water Pressure: 200-500 kPa
- Refrigerant: R-134a
- Power Requirement: 220VAC, 50Hz, single phase
- Capacity: 30L/hr drinking water at 10°C (incoming 27°C, ambient 32°C)

Components Supplied

- Recessed frame assembly (RBA2760-032, -033 only)
- Mounting brackets (RBA2760-001, -002 only)
- Remote chiller (RBA2760-032, -033 only)
- Recessed bubbler bowl
- Vented panel (RBA2760-032, -033 only)
- Glass filler (RBA2760-001 only)
- Flexi-Bubbler (RBA2760-001, -033 only)
- Stainless Bubbler (RBA2760-002, -032 only)

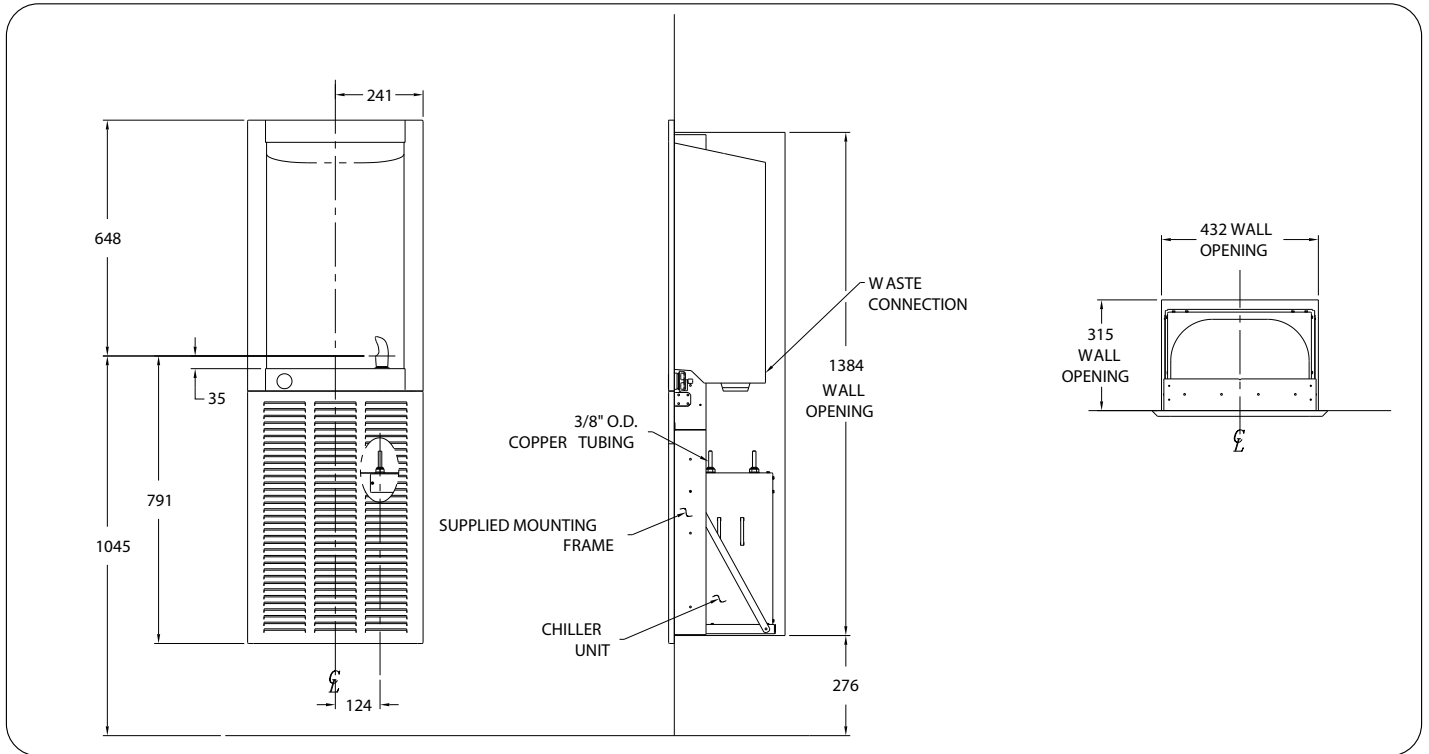
Components Supplied by Others

- 40mm BSP P-Trap Waste
- Water supply stop valve
- Water & electrical connections
- Fixings

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.

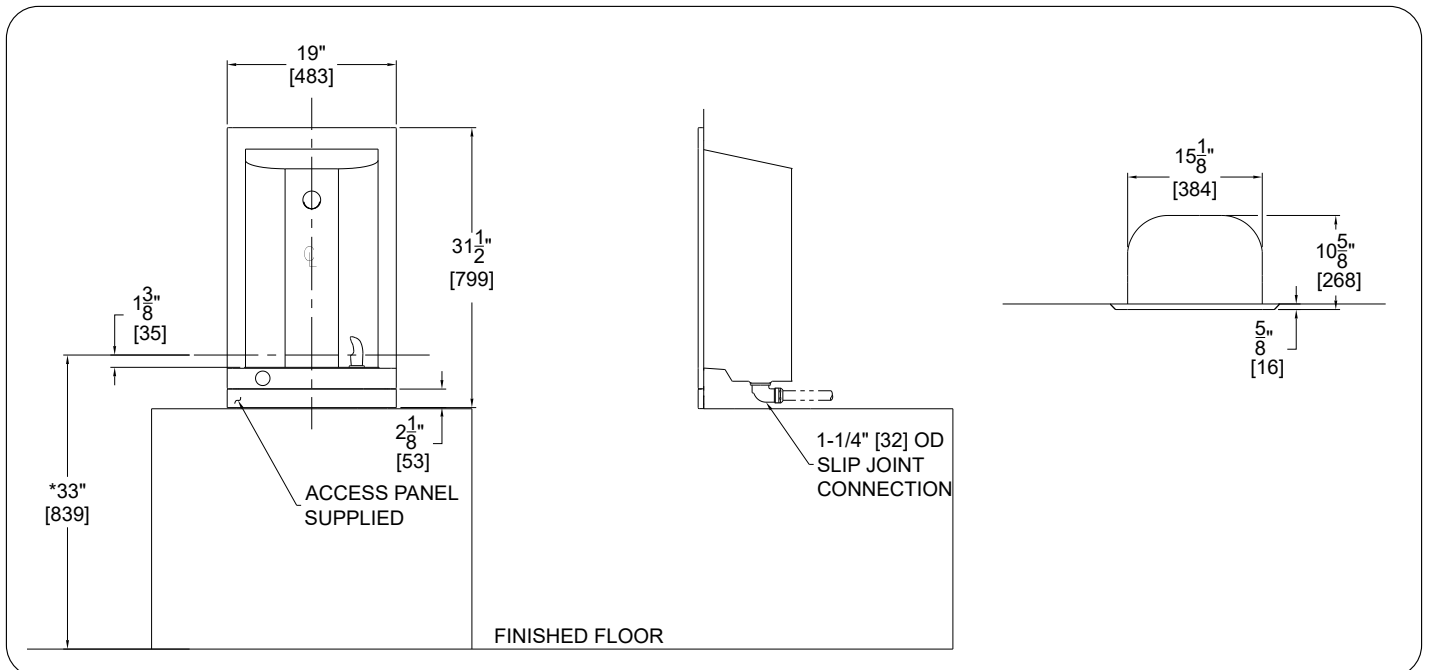
Rough-Ins and Dimensions (for RBA2760-032, -033)

Prior to roughing-in consult with local, state, and federal codes for proper mounting height. Installation to be done in accordance with AS/NZS3500.1 and AS/NZS3500.2.



Rough-Ins and Dimensions (for RBA2760-001, -002)

Prior to roughing-in consult with local, state, and federal codes for proper mounting height. Installation to be done in accordance with AS/NZS3500.1 and AS/NZS3500.2.



GENERAL NOTES:

1. All dimensions are in millimetres
2. *Dimensions shown are for recommended adult height. Adjust vertical dimensions as necessary to comply with local codes.

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.

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 and drain pipe. (See rough-in details).
5. 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 content to increase.
6. Completely flush water supply lines of all foreign debris, before connecting to the fixture.

Installation Instructions (for RBA2760-032, -033)

1. Centre and install the recessed frame assembly using fixings by others.
2. Place the chiller unit onto the shelf of the recessed frame assembly.
3. Securely hang the recessed bubbler bowl on the top flange of the recessed frame assembly, ensuring that the flanges engage.
4. Secure the fountain to the frame assembly using the supplied #10-32 screws and washers. Ensure the screws pass through the tab and the captive nut held within the frame. Tighten screws until the fountain is flush with wall.
5. Install water supply and drain as per the rough-in dimensions.
6. Make up 40mm P-Trap waste connection.
7. Thoroughly flush the supply line. Connect water supply to the fountain.

Before start-up

1. After flushing the supply line but before assembling bottom covers, turn on building water supply and check all connections for leaks.
2. Air within the lines will cause an irregular outlet stream until purged by incoming water.
3. Recheck all water and drain connections with water flowing through system.
4. Install vented access covers using supplied #8-32 screws and washers.

Installation Instructions (for RBA2760-001, -002)

1. Centre and install the mounting brackets to the top and bottom of the rough-in opening using fixings by others.
2. Install the provided captive nuts into the lower mounting bracket as per the figure below.

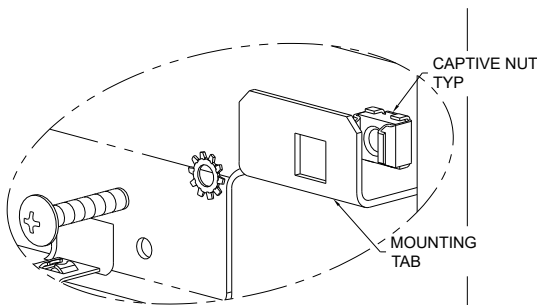


FIGURE D

3. Hang the recessed bubbler bowl making sure the bracket and flange engage. Ensure the fountain is flush with the wall.
4. Install water supply and drain as per the rough-in dimensions.
5. Make up 40mm P-Trap waste connection.
6. Thoroughly flush the supply line. Connect water supply to the fountain.

Before Start Up

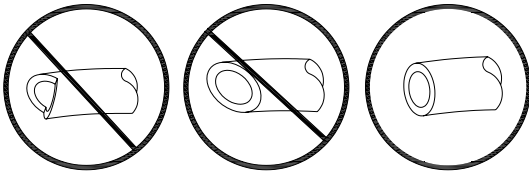
1. After flushing the supply line but before assembling bottom covers, turn on building water supply and check all connections for leaks.
2. Air within the lines will cause an irregular outlet stream until purged by incoming water.
3. Recheck all water and drain connections with water flowing through system.
4. Install removable access cover using supplied #8-32 screws and washers.

Push Fitting Installation

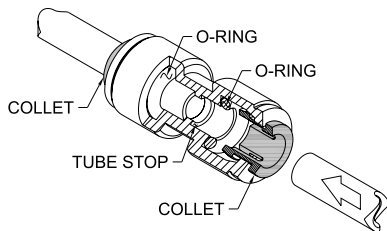
Note: fittings and tube should be kept clean, bagged and undamaged prior to installation.

Figure 2

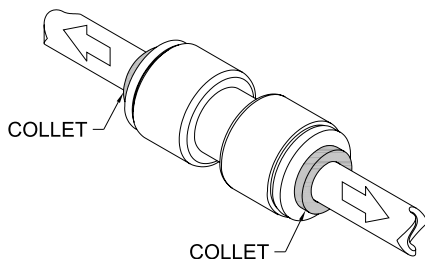
1. Cut to fit length of 1/4" PE Tubing and remove any burrs or sharp edges. Ensure that the outside diameter is free from score marks. Tube ends should be square.



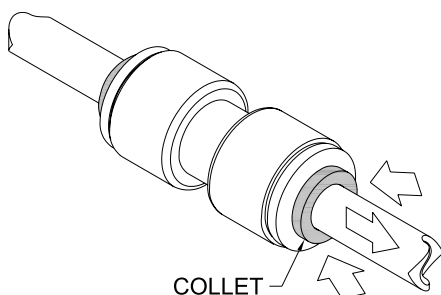
2. Firmly and fully insert the Tubing end into the Push-In Fitting up to the Tube Stop located approximately 1/2" [13mm] deep.



3. 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.



4. Prior to disconnecting the Tube from the Fitting, ensure that the Water Line is depressurised. 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.



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.

Problem	Probable cause
Compressor Does Not Run	Check the power supply cord.
	Check the electrical receptacle for power and correct voltage. The incoming voltage must be within 10% of the rated voltage on the serial nameplate.
	The cold thermostat is accessible by removing the bottom access cover. 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. Unplug the water cooler, 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.
Compressor Runs – Water Is Warm	The most common cause for a water cooler to run without producing cold water is a loss of refrigerant. The water cooler must be taken to a certified refrigerant technician for repairs.
	Make sure the condenser fan motor is operative. The fan blade must turn freely to help remove the heat of compression.
	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 cooler must be checked by an authorized service company.
Noisy Operation	Check to make sure the fan blade is rotating freely.
	Make sure the water cooler is correctly mounted to the wall. Absence of the two lower mounting bolts may cause excess noise and vibration.
	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.

Restricted Or No Water Flow

- Ensure water supply service stop valve is fully open.

- Verify minimum 200 kPa supply line flow pressure.

- Check for twists or kinks in bubbler tubing.

- 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 replaced if needed.

- 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.

- The water cooler may also develop a freezing condition in which the water will become frozen inside the evaporator coil. This indicates a refrigeration problem or thermostat failure in which case the water cooler needs to be checked by a qualified technician

- Check flow adjustment. If necessary, adjust bubbler to site requirements, see Installation Step #12 [Page 3].

- The water cooler may also develop a freezing condition in which the water will become frozen inside the evaporator coil. This indicates a refrigeration problem or thermostat failure in which case the water cooler needs to be checked by a qualified technician.

Compressor Cycling on Overload Protector

- A dirty condenser or a blocked fan will cause a high head pressure and frequent cycling of the overload protector.

- Check the incoming voltage to make sure it is within 10% of the serial nameplate rating.

- A restriction or moisture in the system will also cause intermittent cycling. A certified refrigeration mechanic should be contacted in this situation.

- Change the overload or relay if defective.

Note: This product should be installed, by suitably qualified persons, in a fit for purpose application, to suitable materials, using suitable fixings and comply with any relevant codes. It should be inspected periodically for signs of wear and tear that may affect performance or safety.

Dimensions are subject to manufacturer's tolerance of +/-10mm. Rough-in should be completed with each fixture. Important: Installation Instructions are subject to change without notice. Please visit our websites for latest revision.