

## MODEL

## WALL MOUNTED 'COMPACT' WATER COOLERS

RBA2770-UG-Series

Textured Grey Series [shown]

RBA2777-UG-Series

Stainless Series



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 © 2024 by RBA Group ll/rba2770-UG-series/rba2777-UG-series/1124

This product is to be installed in accordance with the Plumbing Code of Australia (NCC Vol. 3), AS/NZS3500.1 and AS/NZS3500.2 as well as any other applicable requirements subject to the jurisdiction under which the product may be installed. Please read the entirety of this booklet before commencing installation. Please leave this booklet with the owner of the fixture when finished.

## Components

- Water cooler and bubbler assembly
- Transformer

## Components Supplied by Others

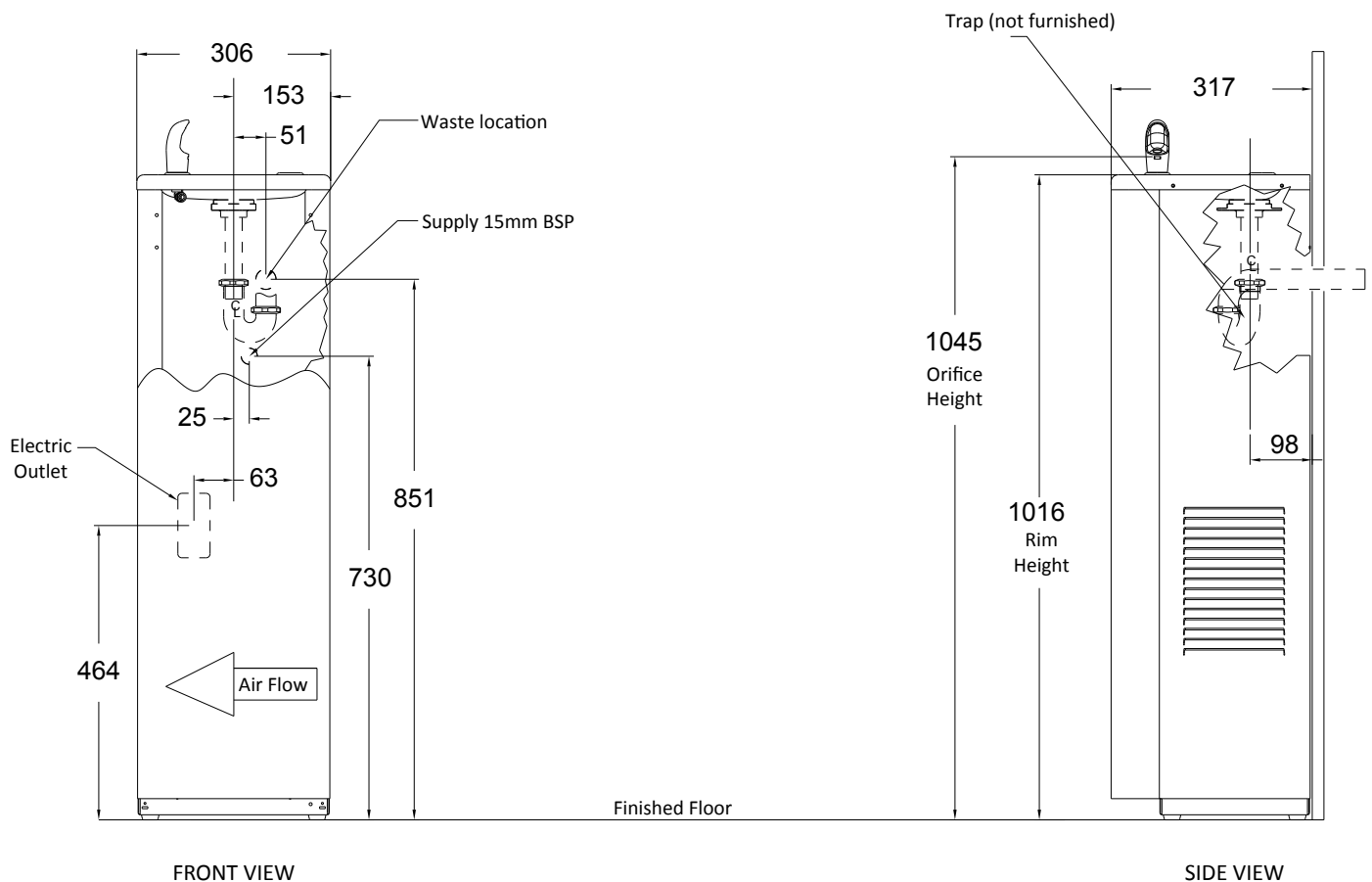
- Wall fasteners for signage mounting
- Pipe sealant or Teflon tape for sealing water connections
- 40mm trap [Due to cold waste water, we recommend the trap supplied by installer be insulated to prevent excessive condensation]

## Hydraulic Requirements

Operating pressure: 200-500kPa  
 Inlet: 1/2" BSP  
 Outlet: 40mm BSP Waste  
 Water Temp: 4°-32°

Provide 102mm minimum clear space on fixture sides to allow for proper ventilation through cabinet louvers.

## Rough-in and Dimensions



## Installation

1. Check rough-in drawings against supplied product.
2. Anchor water cooler to wall through anchor clips on the bottom of the base [provide 102mm minimum clear space on fixture sides to allow for proper ventilation through cabinet louvers].
3. Remove the front panel from the water cooler by taking out the screws on each side at the bottom front, press the panel sides together at the bottom so that front panel clips disengage from the housing sides and carefully pull forward and down. Set panel aside in a safe place where it will not be damaged.
4. Make up trap waste connection.
5. Flush the supply line to remove all foreign debris.
6. Connect water supply to water cooler with 1/2" BSP.
7. Turn on building water supply and check all connections for leaks.
8. Air within the water supply 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 water cooler. Depress push button until steady water stream is achieved.
9. Adjust bubbler to the site requirements:
  - a. If water flow requires adjustment, insert a narrow slotted screwdriver in the center of the button actuator. Turning clockwise will increase flow and turning counterclockwise will decrease flow.
  - b. The water temperature can be adjusted using a slotted screwdriver in the cold water thermostat and turning clockwise to make colder and counterclockwise to make warmer.
  - c. Bubbler can be rotated slightly to direct the stream backwards or forwards.
10. Plug water cooler into electrical outlet and make sure unit begins to function.
11. Re-attach bottom cover to water cooler with screws furnished.

## Troubleshooting

Before making any of the repairs listed, make sure the water cooler is disconnected from the electrical supply and the water supply valve is shut off.

Problem	Probable cause
<b>Compressor Does Not Run</b>	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 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.
<b>Compressor Runs – Water Is Warm</b>	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 authorised service company

<b>Noisy Operation</b>	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.
<b>Restricted Or No Water Flow</b>	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
<b>Compressor Cycling on Overload Protector</b>	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.

## Cleaning & Maintenance

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 access panels and clean out in-line strainer.
4. Do NOT use harsh chemicals, abrasive or petroleum based cleaners. Use of these will void RBA 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

## Cartridge Spare Parts

RBA Code No.	Description
RBA7000-065-001	Valve Cartridge Assembly

**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.