

INSTANT-FLOW MICRO WATER HEATER

INSTALLATION AND OPERATION INSTRUCTIONS (STANDARD AUSTRALIAN MODELS)



WARNING: FOR CONTINUED SAFETY OF THIS APPLIANCE IT MUST BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER’S INSTRUCTIONS.



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Required items for installations not supplied

- Electrical isolation switch
- Electrical supply conduit
- Electrical supply cable
- Mini Cock and Check Valve
- Tapware
- 1/2" x 8mm Dia. flexible braided stainless steel connectors (2)
- Carpenters level
- Flat head screwdriver
- Phillips head screwdriver



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SPECIFICATIONS

! IMPORTANT
 Before installation of heater, review electrical requirements needed for model of heater selected.

NOMINAL INCOMING WATER TEMPERATURE INCREASE AT 240V					
SERIES	VOLTAGE	2.5 LPM	3.8LPM	5.7LPM	7.6LPM
RBAM-15	220-240	20.7°C	13.6°C	9.1°C	6.8°C
RBAM-20	220-240	27.5°C	18.1°C	12.1°C	9.1°C
RBAM-30	220-240	41.4°C	27.2°C	18.1°C	13.6°C
RBAM-40	220-240	55.2°C	36.3°C	24.2°C	18.1°C

TABLE 1			
MODEL NO.	WATTAGE	VOLTAGE	BREAKERSIZE
RBAM-15	3600	220-240	15A
RBAM-20	4800	220-240	20A
RBAM-30	7200	220-240	30A
RBAM-40	9600	220-240	40A

STANDARDS COMPLIANCE:

Product is tested and complies to AS/NZS 3350.1 (IEC 60335-1, MOD) the Standard for the Safety of Household and Similar Electrical Appliances, Part 1 General Requirements, and to Part 2.35: AS/NZS 3350.2.35 the Particular Requirements-Instantaneous Water Heaters. Product is tested and is WaterMark certified per AS 3498 the Standard for Water Heaters.

Installation must comply with AS/NZS 3500.4, and AS3000, and be installed by a qualified personel.

INSTANT-FLOW SPECIFICATIONS:

- Dimensions: 158 mm x 259 mm x 72 mm
- Weight: 2.27 kg
- Materials: ABS housing, Ryton waterways, nichrome parts
- Color: White
- Inlet/Outlet Fittings: Rp1/2"
- Recommended Pressure Requirements: 200 kPa Minimum, 600 kPa Maximum
- Max. Operating Water Temp (output): 60°C
- Minimum Operating Flow Rate: 1.5LPM for RBAM-15, RBAM-20, 2.7LPM for RBAM-30, RBAM-40
- Minimum Water Resistivity: 1100 Ohm.cm
- Operating Ambient Temp: 5°C to 45°C

FACTORY SET TEMPERATURES:

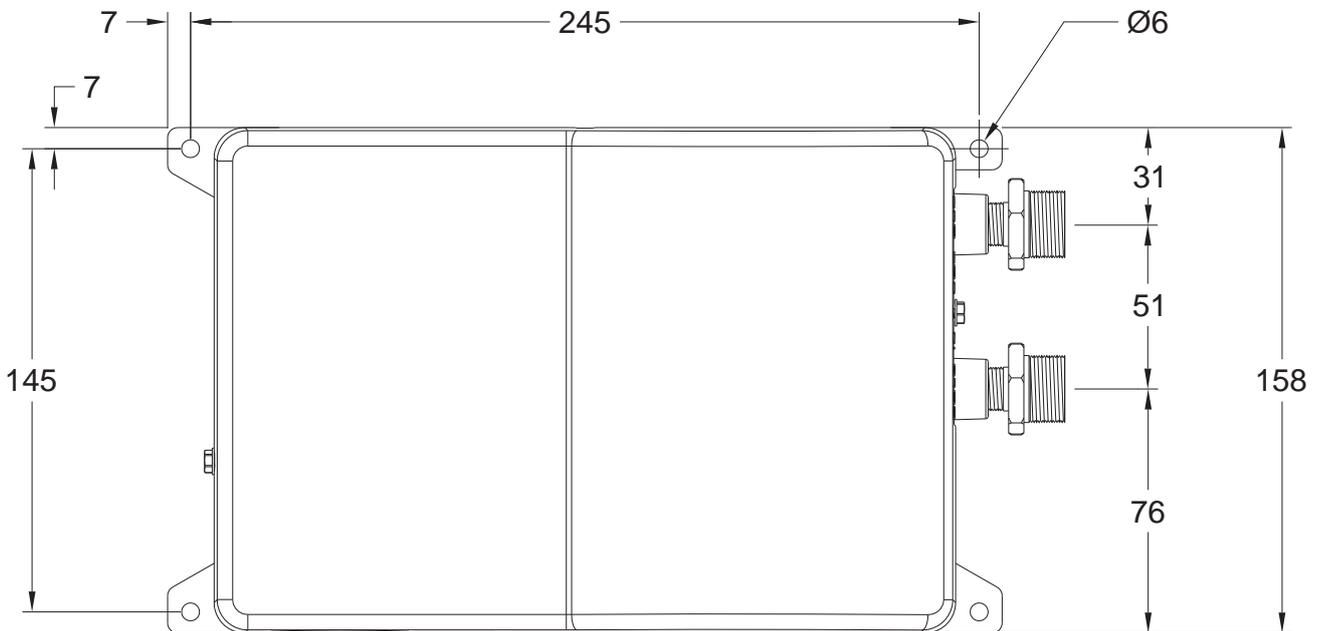
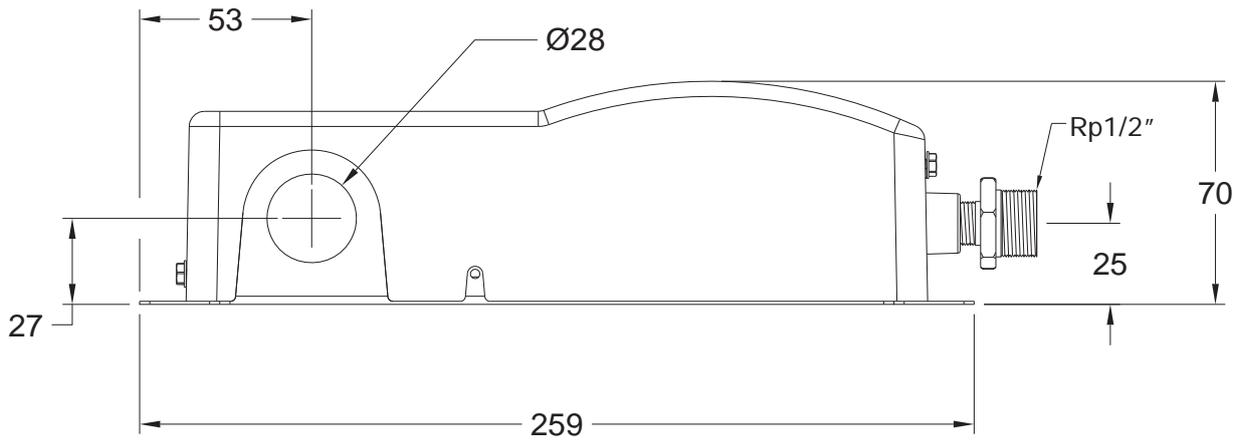
Nominal 35°C, 40°C, 42°C, 49°C
 Other temperature settings are available upon request up to 49°C. Temperature settings are not field adjustable. 42°C/49°C settings are recommended with cold water mixing Taps.

HOW INSTANT-FLOW MICRO WORKS

The heater houses a series of ingeniously designed coils that instantly heat water as it flows through the vessel. A unique power switch automatically applies electrical current to the coils when hot water is requested. The electrical current is not applied when the water is not in use. The micro processor is internally preset at the factory to maintain a constant output temperature with varying flow rates.

SPECIFICATIONS

Unit Dimensions



INSTALLATION



IMPORTANT

- A) All work should only be undertaken by qualified worker
- B) Turn off the circuit breaker to avoid dangerous electrical shocks.
- C) Turn off the water supply
- D) Flush supply line of all foreign material such as pipe dope, pipe chips, solder, sand, teflon tape etc. making up supply connections after working on water piping.

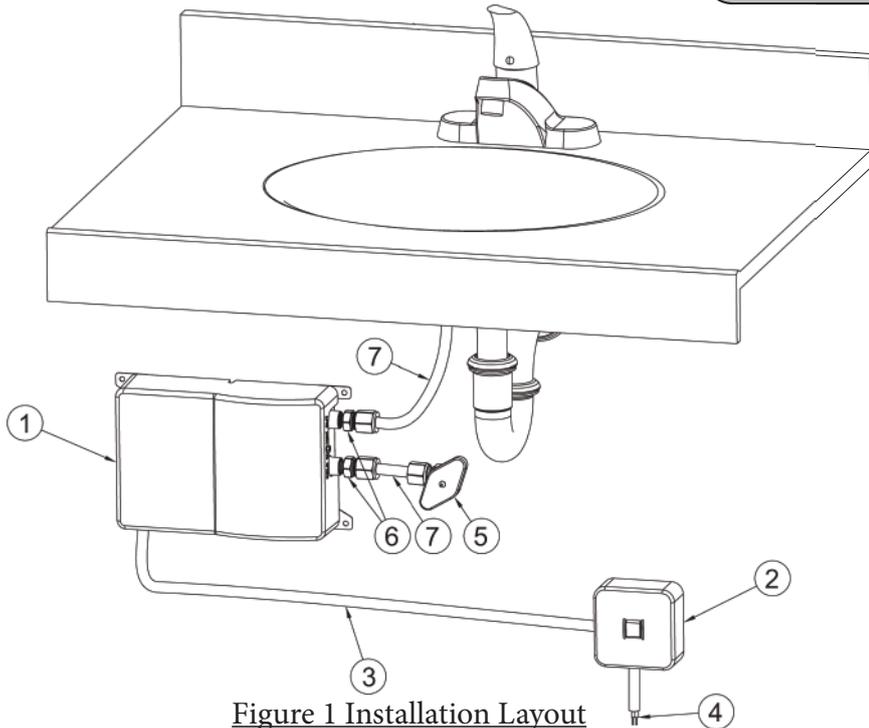


Figure 1 Installation Layout

1. Chronomite Instant-Flow Micro
2. Isolation Switch
3. Electrical supply cable
4. Electrical supply cable
5. 1/2" mini-cock and check valve
6. Fittings (Supplied) Rp1/2"
7. 1/2" x 8 mm Dia. flexible braided stainless steel connectors (By others)

HEATER INSTALLATIONS:

1. Local plumbing and electrical codes must be followed in the installation of this water heater and it's accessories.
2. Remove cover off of water heater. Attach conduit to the conduit connection punching. Then feed cables. Do not attach cabling.
3. Mount unit horizontally against the wall so the silver label reads correctly (See Figure 1). Use level to ensure unit is level and mount with two screws through the flanges located on each corner using wall anchors or fasteners.

CAUTION: Heater elements may burn out if unit is not mounted horizontally.

4. Connect plumbing. Use hose with thread at cold water inlet and hot water outlet to faucet inlet connections (See Figure 1).
5. Run water through the unit to expel all air bubbles. Check for leaks at all fitting joints.
6. Connect wiring. Attach ground wire to center terminal and active, neutral to outer terminals (See Figure 2 page5)
7. Replace cover. Follow the start up procedure on page 5. The unit is now ready for use.

Notice:

- Failure to comply with code requirements voids the warranty.
- If pressure exceeds 600kPa, a pressure limiting valve must be fitted.
- Units should be mounted as close as possible to the outlet, up to a maximum of 10m.

INSTALLATION

! IMPORTANT
 The manufacturer of this water heater will not be liable for any damages due to the failure to follow these installation and operation instructions.

Glands shall be fitted, or blanks fitted as necessary and in compliance of AS3000 supplied by others

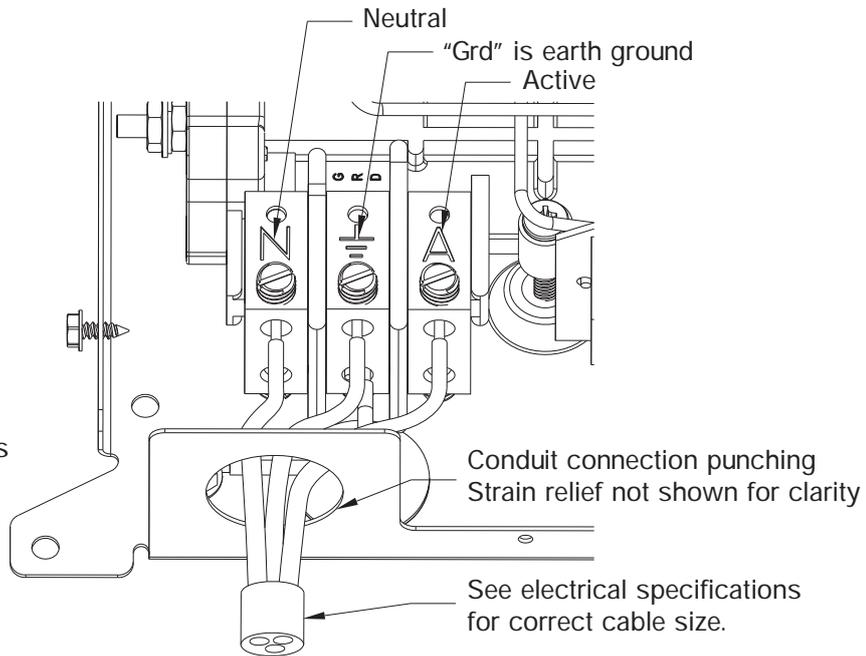


Figure 2 Wiring Connection

ALL ELECTRICAL WORKS SHOULD COMPLY WITH THE APPROPRIATE ELECTRICAL CODE

! IMPORTANT
 Air in the heater may cause the elements to burn out. If the water lines are drained, allowing air into the heater, be sure to follow the following start-up procedure:

Start up Procedure:

1. Turn off electrical supply - open circuit breaker
2. Turn on water supply.
3. Expel all air from lines and heater.
4. Turn on electrical power supply - close circuit breaker.

FLOW CONTROL INSTALLATIONS

OPERATION:

Turn the hot water fixture on to activate the flow switch. The flow switch activates at 1.5 LPM for 15 & 20 Amp Models and 2.7LPM for 30 & 40 Amp Models, and deactivates at 1.2 LPM for 15 & 20 Amp Models and 2.3LPM for 30 & 40 Amp Models. It is not advisable to operate the heaters at 1.5LPM & 2.7LPM (respectively) or below. If you increase the flow rate of the water, the water temperature will decrease (see Incoming WaterTemperature Increase table on page 2). Cold water can always be mixed just as with a conventional system if using a mixing tap.

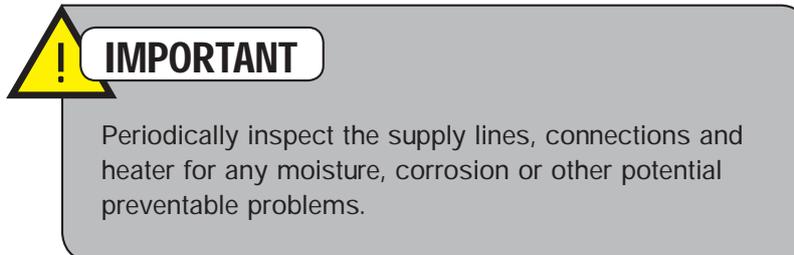
NOTE: Flow rate will vary depending on models used- refer table (page 2)

OPTIONS / FLOW CONTROLS:

The fitted high-quality flow control makes the water heating system operate more effectively, as well as save water. The supplied 7.6 LPM flow control assures that the flow rate will not exceed 7.6LPM. however, less water can always be used.

PREVENTIVE MAINTENANCE

To ensure correct operation and to help extend the life of your Chronomite water heater you should perform annual inspections for damages, loose wiring, leakes, rust, and cleaning of any aerators or strainers. Every 3 years temperature output recordings should be reviewed to ensure performance is as required for your installation.

A grey rounded rectangular box with a yellow warning triangle icon on the left side. The word 'IMPORTANT' is written in bold black text inside the triangle. Below the triangle, the text reads: 'Periodically inspect the supply lines, connections and heater for any moisture, corrosion or other potential preventable problems.'

TROUBLE SHOOTING GUIDE

Your Instant-Flow Micro water heater has no internal user serviceable parts and should be returned to the factory for repair or replacement. Please contact factory for return authorization. If after following the Installation Instructions, your Instant-Flow Micro does not heat water in accordance with this literature, please check the following:

- 1. Low Power** - Verify your voltage by using a voltage meter. You should obtain your reading off the two outside terminals located on the heater. Compare the reading against the voltage specified in the Installation Instructions. The center terminal is always the earth ground.
- 2. Low Voltage** -The percentage of reduction in voltage will result in a like reduction in temperature increase.
- 3. Check Low Amperage Draw** - Check amperage draw using an Amperage Probe. Please compare your results with the Installation Instructions (Table 1) to determine if the heater is operating correctly.
- 4. Length of Pipe** - Length of pipe run will affect the temperature increase. The heater should be mounted no more than 300mm-450mm from the point of use.
- 5. Check shut off valve** - Check shut-off valve and make sure valve is open 100% to allow full water flow rate to the heater.
- 6. Check Flow Rate** - Controlling flow rate is essential to ensure proper temperature increase. Check your flow rate to ensure proper operation of the heater.
- 7. Installation** - Heater must be installed in a horizontal position. The silver label will then be located in the upper left corner as you face the heater.
- 8. Water Supply** - Use cold water only to supply the Instant-Flow Micro cold water inlet.
- 9. Freezing** - Instant-Flow Micro heaters must be drained and stored if installed in a location subject to freezing. Disconnect both inlet/outlet connections and blow air through the hot water outlet connection of the heater to assist draining. Failure to completely remove water from the unit will result in freezing and cracking.
- 10. Problems?** - Call our toll-free hotline at RBA Group 1300 788 778.

WARNING!

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- The water resistivity must not be less than 1100 Ohm. cm.
- The appliance must be earthed.
- The appliance is not to be installed in locations where freezing can occur.
- Means of disconnection must be incorporated in the fixed cabling in accordance with wiring rules.

WARRANTY POLICY



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EXCLUSIVE 12-MONTH WARRANTY

Your Instant-Flow Micro water heater has been engineered and built to the highest quality standards and is backed by a full, factory warranty. Every Instant-Flow Micro water heater is guaranteed to be free from defects in material and workmanship for a period of (1) year from the date of purchase. The above warranty applies to original purchaser if unit is installed per Chronomite Laboratories, Inc.'s Installation Instructions. Chronomite Laboratories, Inc. will repair or exchange parts at the factory at no cost. This warranty is limited to repairing or replacing said products which prove to be defective upon factory inspection, return to your nearest rba Group office.



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