Freestanding Water Chiller

Installation and Maintenance Instructions

DFSA120

DFSA121

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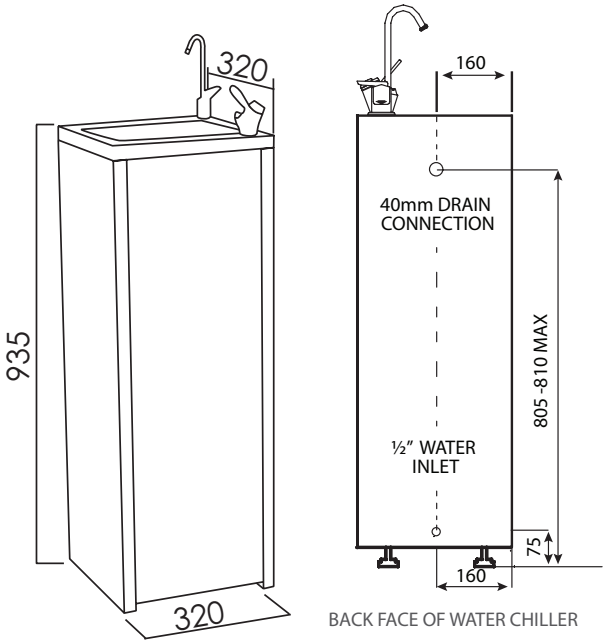
ENWARE
A WATTS Brand

product description

Enware water chillers supply chilled water on demand. Suitable for public areas such as gyms, building sites and office buildings.

KEY FEATURES

- Flow rate of up to 18 litres/hour of chilled water
- 4 Litre storage tank
- Carafe filler with lever handle
- Push button bubbler
- Hygienic, polished stainless steel tops designed for rapid draining
- Adjustable levelling feet
- Stainless steel storage tank
- FDA approved internal pipework
- Environmentally friendly R134A refrigerant
- Side carry handles and removable front access panel for easy installation
- Includes internal waste trap



All measurements are in millimetres.

technical data

Chilled Water Production	up to 18 Litres/hour
Recommended Water Supply Pressure	50-500 kPa (Use of pressure reduction valve is recommended if inlet pressure may exceed 500 kPa)
Power Supply	230-240V / 50 Hz
Power Connection	3 pin 10 A plug with 2m lead
IP Rating	IP23
Water Inlet Connection	1/2” BSP male
Water Drain Connection	40mm DWV PVC
Storage Tank	4 Litres
Compressor Size	362 W
Condenser	Wire tube
Refrigerant	R134A
Climate Condition	SN.N *
Net Weight	28kg

* Suitable for use in ambient temperatures of 10°C to 32°C

installation compliance

IMPORTANT - This must be read before proceeding with installation

1. Enware products are to be installed in accordance with the Plumbing Code of Australia (PCA) and AS/NZS3500. Installations not complying with PCA and AS/NZS 3500 may void the product and performance warranty provisions. Reference should also be made to the ABCB and Local Government regulations when considering the choice of, and the installation of these products.
2. Electrical installation must be in accordance with AS/NZS3000-2018.
3. Water connection to the water cooler should be made through an approved Non-Return Isolating Valve/ Stop Tap and installed in an accessible position.
   *** Note: Non-Return Isolating Valves/Stop Taps are not supplied with this product.**
4. Water supply pressure must not exceed 500kPa. It is recommended that an approved 500kPa Pressure Reduction Valve be installed with all water chillers to safe-guard against pressure surges that may occur in the supply lines, especially at night.
5. For use with potable water only.

NOTE: Enware Australia advises:
1. Due to ongoing Research and Development, specifications may change without notice.
2. Component specifications may change on some export models.

WARNING:

- Enware water chillers are not suitable for outdoor use. The appliance must not be exposed to rain.
- Stainless steel panel (non-powder coated) chillers are not designed or recommended for use in corrosive environments such as enclosed chlorinated pool areas.
- Consideration must also be made at the time of installation to adverse environmental/ atmospheric conditions such as, but not limited to, dust, corrosion, or freezing. These conditions may void the warranty.
- Do not operate this appliance at ambient temperatures below 0°C, as it may cause the water inside the water chiller to freeze and damage internal components.
- The appliance is not suitable for installation in an area where a water jet could be used.
- 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.

CAUTION:

- **Mains Power Electrical Components.** For the purpose of safety and hygiene, access to the internal components of this appliance is restricted to persons having knowledge and practical experience of the appliance.
- Ensure the electrical supply is turned off, before taking the front panel off to access internal components.
- If the power supply cord is damaged, it must be replaced by the manufacturer, its service agent or a qualified electrician in order to avoid a hazard.
- In order to avoid a hazard due to inadvertent resetting of the thermal cutout, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.
- Do not damage the refrigerant circuit. Care should be taken not to puncture refrigeration system lines. Some lines contain gas under high pressure.
- Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
- Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
- If freezing occurs, do not operate the appliance, until ambient temperatures is again above 0°C and frozen unit has completely thawed.

installation

Water chiller is ready for final assembly on site.

Remove water chiller from the packaging.

Remove the front panel of the chiller unit by unscrewing the two fixing screws. Pull panel forward and slide down to remove the front panel. SEE IMAGE 1

IMPORTANT - Ensure chiller unit is disconnected from power supply before accessing the inside of the chiller unit.

Water Chiller installation - go to page 6.

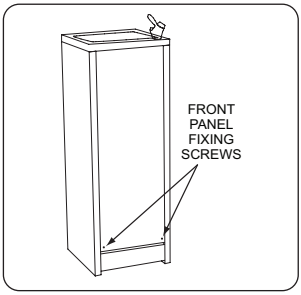


IMAGE 1

REMOVING BUBBLER (OPTIONAL)

Drinking bubbler can be deleted or temporarily removed if it is not required. Plug and fitting are not included - they can be purchased separately. (Enware part no. 677077 - blanking plug, 673159 - elbow)

1. Loosen and remove the back nut from under the bubbler.
2. Disconnect the 1/4'" tube by removing the small compression fitting.
3. The bubbler can be removed and the rubber blanking plug pushed into place. SEE IMAGE 2
4. Trace the 1/4" tube back to the tee-piece, then disconnect all the tubes from the tee piece by holding the collet at the joint in place and pulling the tube free from the fitting. SEE IMAGE 4
5. Replace the tee-piece with elbow provided, connecting the supply tube to the carafe filler. SEE IMAGE 3

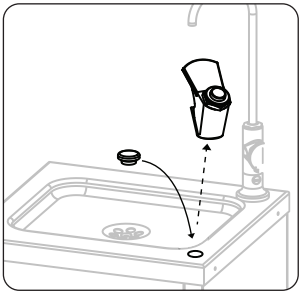


IMAGE 2

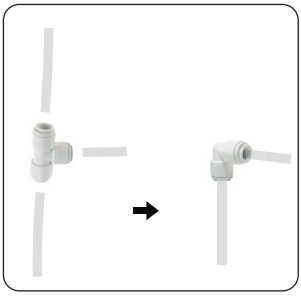


IMAGE 3

Push tube in to connect.

Pull back gently on the tube to check it is locked.

To disconnect, ensure the system is depressurized, push the collet square against the fitting. With the collet held in this position the tube can be removed.

IMAGE 4

WATER CHILLER INSTALLATION

1. Place water chiller in desired position and adjust levelling feet so that the water chiller is stable and sitting level.

   Note: This appliance must be placed in a horizontal position. Ensure there is at least 50mm of gap between the back of the unit and any wall for fan ventilation.

2. From inside of the chiller unit, connect the 40mm bottle trap (supplied) to the waste connection located on the underside of the top tray. Connect DN40 DWV PVC drain pipe to the bottle trap. SEE IMAGE 5

3. (Optional) Install a carbon filter (DFS002F- sold separately) inside the chiller unit.
   Cut or disconnect the 1/4" tube that feeds the carafe filler and bubbler, and install the carbon filter in the line.

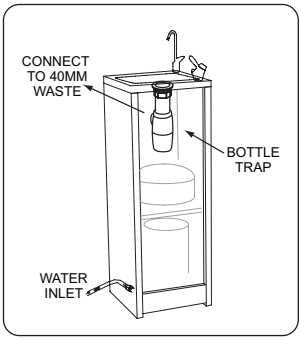


IMAGE 5

4. Install a non-return isolating valve or a stop tap (not supplied) at the water supply as required. Flush all foreign matter from the water supply line, then connect water supply to the 1/2" BSP male inlet fitting located at the rear of unit. SEE IMAGE 5

5. Install spout on the carafe filler. (See Carafe Filler Assembly Instructions next page)

6. Turn the water supply on and purge the air from the stainless steel chilling tank by pressing the push button on the bubbler or lever on the carafe filler. Water may spit from the outlets during this procedure and care should be taken not to let water splash on walls and furniture. Allow the water to flow for 5 minutes, starting and stopping it frequently.

7. Check all plumbing for leaks. Check the bottle trap and drain pipe connections for water-tightness.

8. Replace the front panel to the chiller unit.

9. Connect power cable to an electrical outlet.
   (Electrical connection: a flexible 2m service lead, 3 pin 10 AMP plug supplied to connect the chiller to a 230-240V 50Hz AC supply.)

   Turn power on. The refrigeration unit and the fans should start to activate.

10. Once water is cooled and chiller function is checked, turn off the power and disconnect the power cable. Open the front panel and check all plumbing for leaks once again.

    IMPORTANT - Chiller unit must be disconnected from power supply before accessing the inside of the chiller unit.

11. Replace front panel of the water chiller and secure the panel using screws provided. Connect power cable and turn power back on.
    Remove protective film from stainless steel panels.

CARAFE FILLER ASSEMBLY INSTRUCTIONS

1. Align the brass adjusting nut so that it sits crosswise. SEE IMAGE 6
2. From the tapered end of the handle, start to slide the handle on to the nut, making sure the adjusting nut stays in the crosswise direction. SEE IMAGE 7
3. Slide the handle all the way until it clicks into place.
4. Insert spout into the spout hole. Screw the spout all the way in until it comes to a stop, then wind back to the desired spout position. SEE IMAGE 8
5. Turn water supply on and check for leaks.
6. Test the handle by pressing it down. If the handle is too tight or too loose, turn water supply off, go back to step 1 and adjust the nut up or down to achieve correct fit. If the handle is fit too tight, water may not shut off properly and may constantly run or drip from the spout.

   To loosen, unscrew nut (up). To tighten, screw the nut in (down). Go back to step 1.

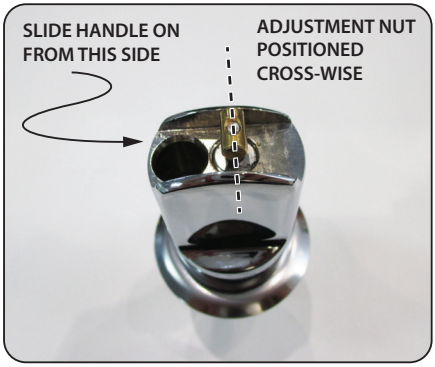


IMAGE 6

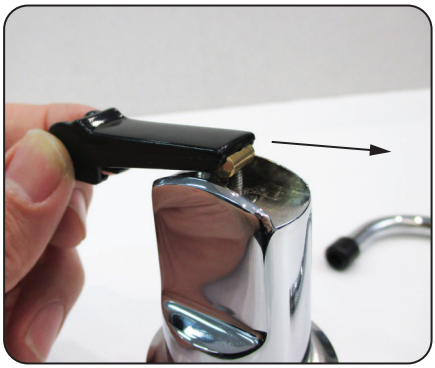


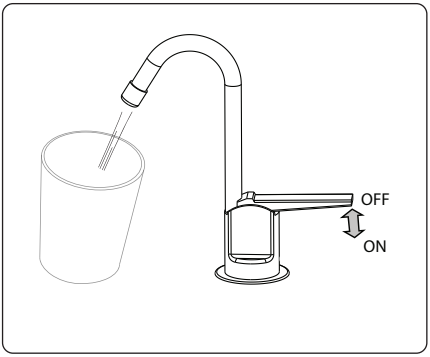
IMAGE 7

IMAGE 8

operation

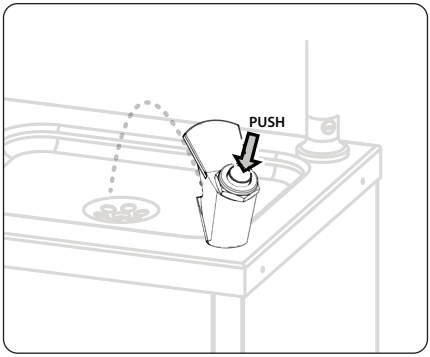
CARAFE FILLER

To turn on water flow, push handle down.
To turn off water flow, let go of handle.
Water flow stops automatically.



BUBBLER

To turn on water flow, push button down.
To turn off water flow, let go of button.
Water flow stops automatically.

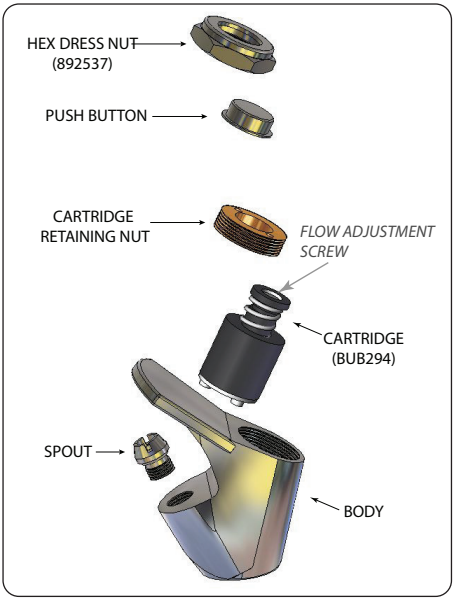


flow adjustment

BUBBLER

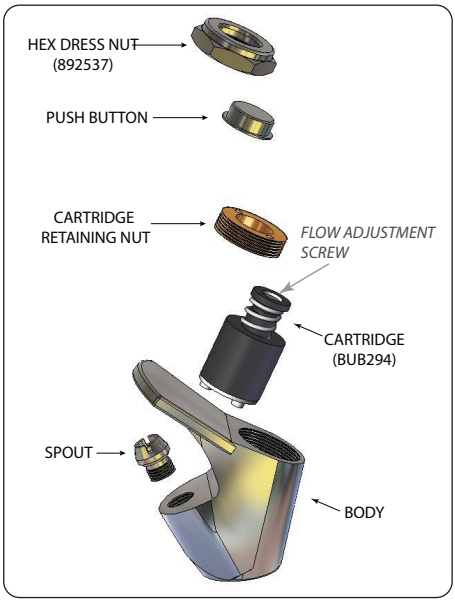
Adjusting water stream height:

1. Unscrew hex dress nut from bubbler body using a spanner (while water supply is on). The dress nut and push button can be removed to reveal the top of the cartridge and the cartridge retaining nut.
2. Locate the flow adjustment screw in the top of the cartridge. While pressing the cartridge to fully on position, using a small slotted screwdriver, screw the adjustment screw in to reduce stream height, or out to increase stream height.
3. Replace the push button and hex dress nut, and tighten.
4. Re-test bubbler fountain for correct operation.



BUBBLER

PART	ENWARE SALES CODE
Cartridge	**BUB294**
Bubbler complete	**BUB290**



WATER CHILLER

REFRIGERATION SYSTEM - The entire refrigeration system is hermetically sealed. Should the system fail to operate, contact the manufacturer immediately.

Note: tampering with the refrigeration system in any way may void warranty.

WATER TEMPERATURE CONTROL SCREW - Located internally on the shelf, has been factory set to provide chilled water at approx. 5°C to 10°C .

PART	ENWARE SALES CODE
Bottle trap 40mm white adjustable height	**DFSAS202**
Carbon inline water filter	**DFS002F**
Thermostat	**DFSAS200**
PRV 1/4"	**DFSAS201**
Blanking plug	**677007**
Elbow JG quick connect 1/4"	**673159**

service & maintenance

Every 6 months or periodically as required, the appliance and its surrounding area should be inspected for water leaks, the carafe filler and bubbler should be tested for correct operation and external panels should be given a light wipedown.

Filters if used should be replaced, depending on usage. Water storage tank should be purged by running the tap for 5 minutes, before installing a new filter.

Every 12 months or as required, the bubbler stream height should be re-adjusted. If the bubbler or carafe filler is leaking, the cartridge or carafe filler should be replaced.

The internal condenser and fans should be kept free of dust/ lint. It should be checked periodically and cleaned with a brush or vacuum cleaner. Water cooler must be disconnected from the power supply before following this procedure.

cleaning

Enware product should be cleaned with a soft damp cloth using only mild liquid detergent or soap and water. Do not use cleaning agents containing a corrosive acid, scouring agent or solvent chemicals.

Do not use cream cleaners, as they are abrasive. Epoxy coated surfaces should only be cleaned with a cloth and clear water or mild detergent. Use of unsuitable cleaning agents may damage the surface. Any damage caused in this way will not be covered by warranty.

Cleaning is not required for internal components of the appliance.

The appliance must not be cleaned by a water jet.

troubleshooting

WATER CHILLER

PROBLEM	CAUSE	RECTIFICATION
No water at outlets	Water not connected or turned off	Connect and turn on water supply
	Water frozen	Adjust water temperature control on thermostat to higher setting. Do not operate the appliance, until ambient temperature is again above 0°C and frozen unit has completely thawed.
Water not cooled	Power is not connected	Turn power supply on
	Fan ventilation not adequate	Ensure there is gap behind back of chiller to allow air flow from vents
	Temperature setting too high	Adjust water temperature control on thermostat to lower setting
Poor water flow at outlets	Bubbler stream is not adjusted	Adjust bubbler stream
	Carafe filler handle is too loose	Adjust carafe filler adjusting nut and handle
	Carbon filter is blocked	Replace carbon filter
Water leaks at outlets	Bubbler cartridge is damaged	Replace bubbler cartridge. Ensure water pressure is below 500kPa
	Carafe filler handle is too tight	Adjust carafe filler nut and handle
Water tastes foul	Carbon filter has been contaminated	Replace carbon filter
	Water in tank is stale	Purge water in tank by running the bubbler for 5 minutes

BUBBLER

PROBLEM	CAUSE	RECTIFICATION
Water runs constantly from bubbler outlet	Debris in cartridge	Replace cartridge BUB294
	Cartridge has been damaged	Replace cartridge BUB294
	Seating washer damaged or spring broken	Install a pressure reduction valve. Replace cartridge BUB294
No flow from bubbler outlet	Water supply turned off	Turn water on
	Debris fouling inlet or outlet ports of cartridge	Remove blockage
	Rubbish/debris fouling outlet	Remove blockage
Water discharge from top of bubbler	Cartridge is damaged	Replace cartridge BUB294

product warranty for Australia

Effective May 2023

Enware Pty Ltd (“we” or “us”) warrants that this product (also referred to as “our goods”) will be free from all defects in materials and workmanship for 12 months from the date of purchase. Our liability under this warranty is limited at our option to the repair or replacement of the defective product or part, the cost of repair of the defective product or part or the supply of an equivalent product or part, in each case if we are satisfied the loss or damage was due to a defect in the materials or workmanship of the product or part. All products must be installed in accordance with the manufacturer’s instructions, the Plumbing Code of Australia (PCA), and AS/NZS3500 including any other applicable regulatory requirements.

making a claim

To make a claim under this warranty you must notify us in writing within 7 days of any alleged defect in the product coming to your attention, provide us with proof of your purchase of the product and have completed the Online Product Service and Warranty Form available on website:
www.enware.com.au/warranty-service-form

All notifications and accompanying forms must be sent to us marked for the attention of Enware Pty Ltd, 9 Endeavour Road, Caringbah NSW 2229. We can also be contacted by telephone (1300 369 273) or by email (info@enware.com.au).

Your costs in making a claim under this warranty, including all freight, collection and delivery costs, are to be borne and paid by you. We also reserve the right at our cost to inspect any alleged defect in the product wherever it is located or installed or on our premises.

exceptions

This warranty does not apply in respect of any damage or loss due to or arising from:

a) Failure by you or any other person to follow any instructions for use (including instructions and directions relating to the handling, storage, installation, fitting, connection, adjustment or repair of the product) published or provided by us;

b) Failure by you or any other person responsible for the fitting, installation or other work on the product to follow or conform to applicable laws, standards and codes (including the AS/NZ 3500 set of Standards, all applicable State and Territory Plumbing Codes, the Plumbing Code of Australia and directions and requirements of local and other statutory authorities); or

c) Any act or circumstance beyond our control including faulty installation or connection, accident, abnormal use, acts of God, damage to buildings, other structures or infrastructure and loss or damage during product transit or transportation.

other conditions

Except as provided or referred to in this document, we accept no other or further liability for any damages or loss (including indirect, consequential or economic loss) and whether arising in contract, tort or otherwise. Any benefits available to you under this warranty are in addition to any non-excludable rights or remedies you may have under applicable legislation, including as a “consumer” under the Australian Consumer Law. To that extent you need to be aware that: our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.