

Hob Mounted Pre-Rinse Unit with Concealed Mixer Assembly

Installation and Maintenance Instructions

FHS021
FHS121
FS013



technical data

Working Pressure Range	Min 50 kPa Max 500 kPa
Maximum Static Pressure	800 kPa
Maximum Working Temperature	70°C
Inlet Connection	1/2" BSP
Flow Rate	4 L/min (Pre-rinse spray gun) 5 L/min (Pot filler)

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 Australasian Health Facility Guidelines (AHFG), ABCB and Local Government regulations when considering the choice of, and the installation of these products.

This product must be installed and commissioned by a qualified plumber.

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.

installation

BEFORE INSTALLATION

- Ensure all operating and dimensional specifications are suitable for the intended installation. Check that there is no shelf or obstruction above. Shorter riser, hose & spring guard options are available from Enware
- Check that wall bracket can be installed on a stable wall surface. If not, extra measures may need to be taken so that the bracket can be supported by a firm wall backing.
- All supply lines must be flushed thoroughly to remove debris prior to the installation of this product, as per AS/NZS 3500.1. Strainers (40 mesh) are recommended if debris is an ongoing problem.
- A pressure reduction valve may be required to comply with the recommended maximum supply pressure and/or balanced pressure requirements.
- Ensure water pressures for hot and cold supplies are relatively balanced. If not, one side may override the other. A pressure reduction valve may be required to address any imbalance in the water supply pressure, or to comply with the recommended maximum pressure.
- It is recommended that isolation valves are installed on both hot and cold supplies prior to the pre-rinse unit and that these are easily accessible.

TRIGGER SPRAY GUN

1. Apply thread sealant to the nozzle and screw the nozzle into the trigger spray gun. Use a 14mm hex socket wrench to tighten the nozzle. **SEE IMAGE 01**

For Soft-Spray outlet option (FS729SS-KIT), use the spray attachment instead of the nozzle.

2. Apply thread sealant to the male thread of trigger spray gun. Connect the trigger spray gun to the female connection of hose, and tighten the nut using a spanner. **SEE IMAGE 02**

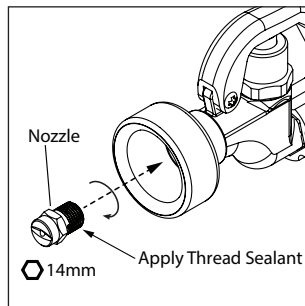


IMAGE 01

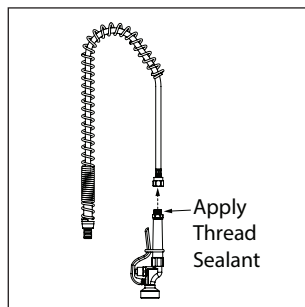


IMAGE 02

INSTALLING THE BASE - HOB MOUNTED CONCEALED ADJUSTABLE BREECH

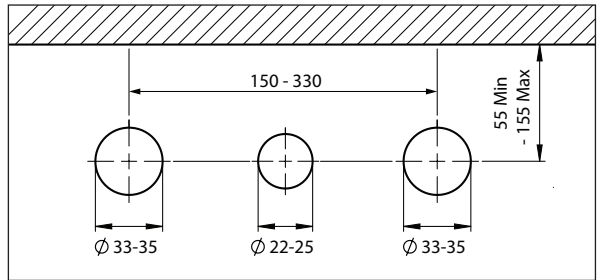
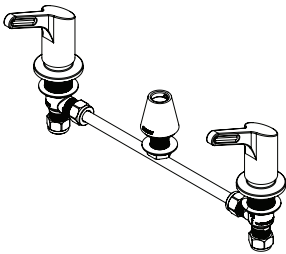


IMAGE 03

1. Mark the holes to be drilled on the bench and drill the hole using a hole saw or similar tool. **SEE IMAGE 03**
Drill hole position: min 50mm - max 155mm to the centre from wall
Drill hole size: 1x hole diameter 22 - 25mm for spout, 2x holes diameter 33 - 35mm for tap bodies
Tap body centres: Min 150mm - Max 330mm
Maximum bench thickness: 20mm
2. Fit 1/2" tail into base: Apply thread sealing tape onto the non-bevelled end of 1/2" BSP all-thread tail, and screw into female thread of base. **SEE IMAGE 04**
3. Fit fibre washer to base, then fit base onto the bench. Fix the base in place using 1/2" brass nut from underneath the bench. **SEE IMAGE 05**
4. Fit jumper valve and fibre washer onto SBA spindles, then screw SBA spindles into tap bodies. Use the hex on the SBA spindle to tighten with a spanner. Do not overtighten. (Max. torque 30Nm.) **SEE IMAGE 06**

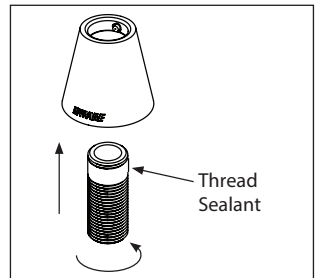


IMAGE 04

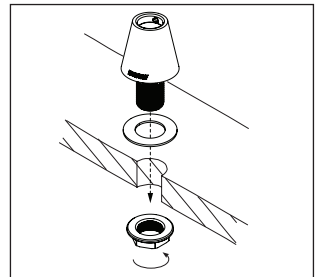


IMAGE 05

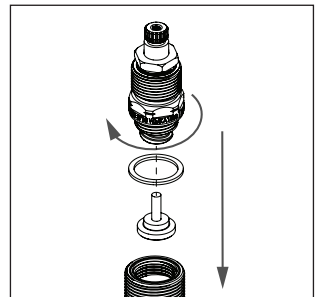


IMAGE 06

5. Assemble tap bodies onto tee piece, measure the centres, and compare this to the centres of tap holes on bench. Cut the tee piece to the required length using tube cutters.

SEE IMAGE 07

6. Assemble tap bodies onto tee piece. Note: hot/warm SBA is indicated by a groove in the spline of the spindle. Fit one set of fibre washer and back nut onto each tap body.

7. From underneath the bench, insert the tap bodies and tee piece assembly up through the bench, at the same time inserting the tee piece spigot up into the 1/2" brass tail of spout. Take care not to pinch or damage the O-rings in the process. **SEE IMAGE 08**

8. Fit clear plastic washers and back nuts from above the bench, and fix tap bodies in place. Tighten back nuts and compression nuts using a spanner. **SEE IMAGE 08**

9. Fit O-ring and flange onto SBA. **SEE IMAGE 08-1**

10. Fit spline adaptor onto each spindle. Note that the two longer spline adaptors are for the hot and cold handles, and the shorter spline adaptor for the pot filler. **SEE IMAGE 08-2 & IMAGE 08-3**

Align the dimple of spline adaptor with the grub screw hole on handle. **SEE IMAGE 08-4**

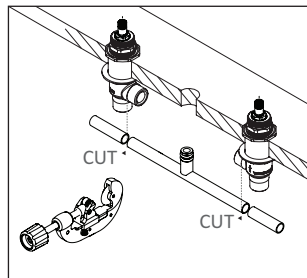


IMAGE 07

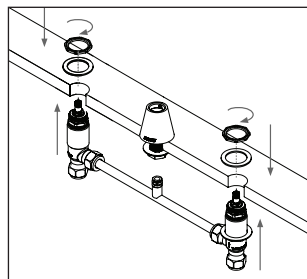


IMAGE 08

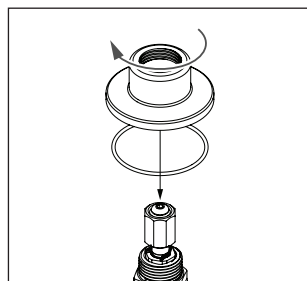


IMAGE 08-1

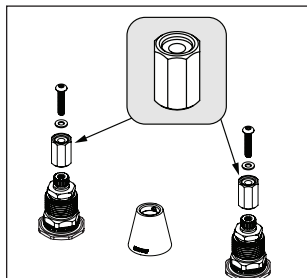


IMAGE 08-2

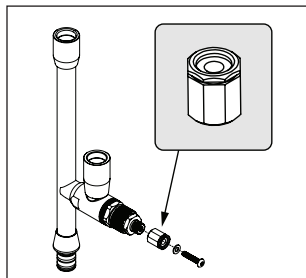


IMAGE 08-3

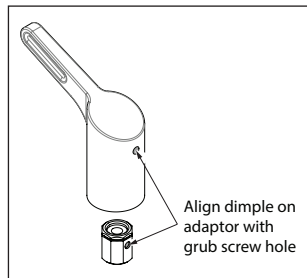
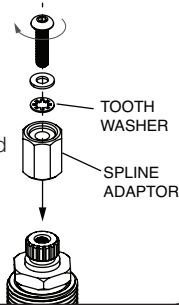


IMAGE 08-4

FITTING LEVER HANDLES

1

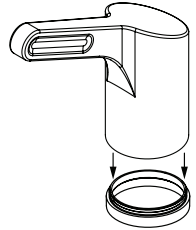
Fix the spline adaptor in place using screw with tooth washer and washer.



2

Fit colour indicator ring onto lever handle. To do this, place an indicator ring on flat surface with the rebated edge facing up. Press the lever handle down onto the indicator ring evenly until it clips into place.

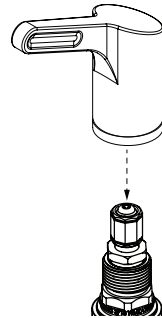
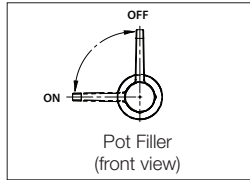
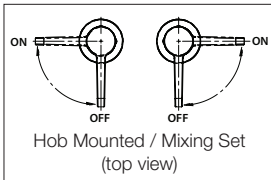
If an indicator ring needs to be removed, place lever handle on a flat surface and apply pressure to the side of the indicator ring, until the ring pops off.



3

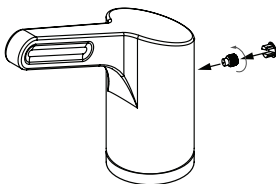
Note the orientation of the tap handle.

Fit lever handle onto spindle.



4

Fix the lever handle in place with grub screw, then fit handle plug.



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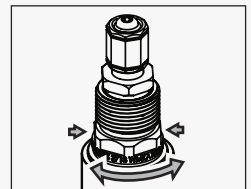
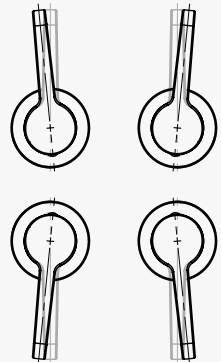
If the lever handles do not line up straight:

- Change the position the spline adaptor on the SBA spindle in step 2.
- Adjust position of SBA spindle by slightly tightening or loosening it, using a spanner on the hex of the SBA spindle.

Note: Do not adjust position of SBA using handle. Do not over-tighten SBA spindle. (Max. torque 30Nm.)

Fit handle parts back on.

- If lever handles do not line up parallel in the straight position, it is recommended to offset them away from the centre.



➔ Proceed to installation of riser, pot filler & spray arm – next page

INSTALLING RISER, POT FILLER & SPRAY ARM

1. Note that each component of the pre-rinse assembly uses a double O-ring spigot connection. The O-rings on the male spigot are pre-greased. Re-grease them if required.
2. Take grub screws out from female joints of all parts (riser, pot filler adaptor, base, body) and keep them at hand. SEE IMAGE 09
3. Fit riser and/or pot filler adaptor onto the base body. To do this, firstly align the joints straight, then gently but firmly push the male spigot into the female connection, taking care not to pinch or damage the O-rings while doing so. Push the joints together all the way until the male joint comes to a stop. SEE IMAGE 10
4. Check that the riser is sitting straight up. Measure the distance between the wall and the riser.
5. Assemble the wall bracket, making sure that there is enough thread going into the wall plate and the half section of the riser bracket. Note the difference in length from the measurement taken in step 4. Cut the all-thread to suit if required. SEE IMAGE 11 & 12
6. Re-assemble the bracket, and fit the bracket onto the riser as high up as possible. This gives greater support and stability to the assembly. Tighten the two screws of the bracket onto riser using a 2.5mm Allen key.
7. Check that the riser is sitting straight both ways (front-rear, right-left), and the bracket is lined up straight towards the wall. Then mark the two drill holes of the bracket on the wall.
8. Drill the two marked holes in the wall and fix the bracket onto wall using appropriate fixings.

(Continued on next page)

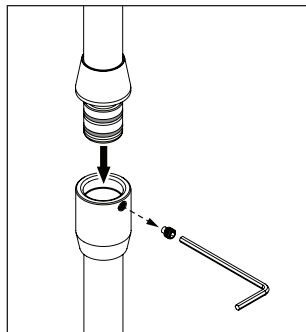


IMAGE 09

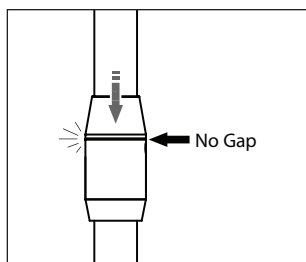


IMAGE 10

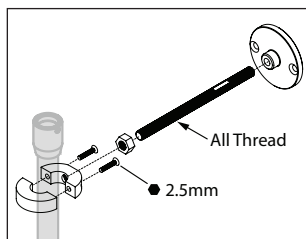


IMAGE 11

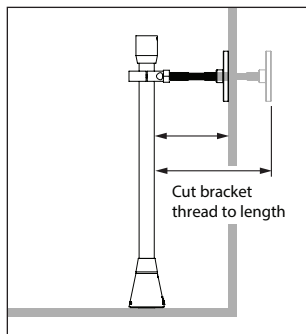


IMAGE 12

9. Fit spring retainer/ hose/ spray gun assembly onto riser.
SEE IMAGE 13

10. Fit all grub screws back onto fittings. Check that each grub screw has engaged into the groove of the male spigot, then tighten using 2.5mm Allen key.
SEE IMAGE 14

Before fully tightening the grub screw, check that the pot filler is facing the preferred direction.

If the spout needs to swivel, tighten grub screw and then back off slightly just enough for the spout to swivel. Do not disengage screw more than half a turn. If grub screw is not fitted correctly it may result in premature wear or damage to the brass spigot.

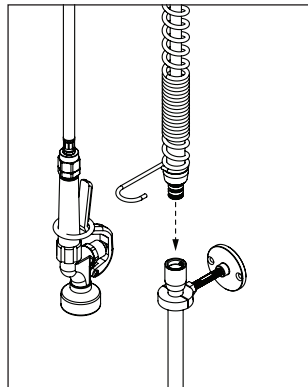


IMAGE 13

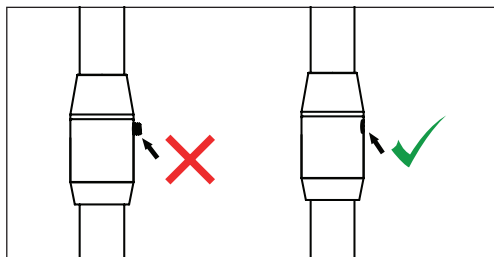


IMAGE 14

WATER CONNECTIONS

1. Ensure the hot and cold supply lines have been flushed thoroughly to remove debris.
2. Connect water supply to the inlet of the tap.
3. Check again that all screws, nuts, grub screws and fittings have been fitted and tightened.
4. Turn water supply on to check for leaks at all connection points.

operating instructions

PRE-RINSE TRIGGER SPRAY OPERATION

Squeeze spray trigger. Pull down hose to desired angle and position to wash.

To make the water flow stay on, slide the holding ring over the trigger.

To turn off, let go of the trigger, or slide the holding ring off the spray lever handle.

Use the hook to stow away the spray gun while not in use.

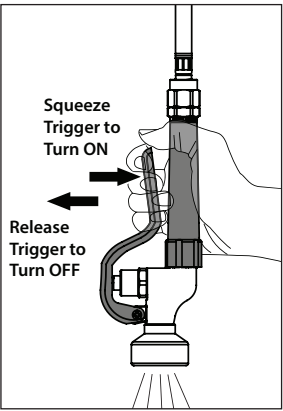


IMAGE 15

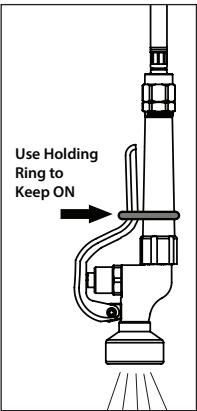
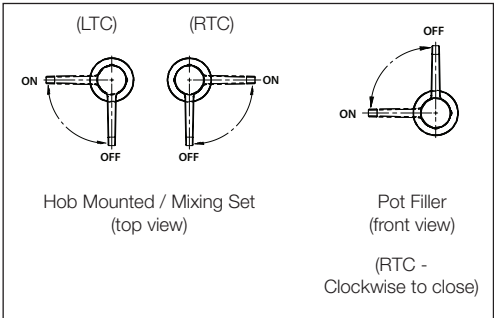


IMAGE 16

OPERATING LEVER TAPS

To operate taps, turn handle lever in the directions indicated.



WARNING

Hot water will scald. Care must be taken to avoid scalding when using the trigger spray to deliver hot water. Exposed metal sections of the mixer, riser assembly, hose connections and trigger spray may become hot when in use and may cause burn injuries.

When not in use ensure all taps to the pre rinse assembly are turned off. The taps should not be left on when unattended as this maintains pressure to the hose and trigger spray assembly, which could result in water damage from flooding if in the unlikely event the hose or trigger spray were to malfunction.

maintenance

CLEANING

Enware products 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. Use of unsuitable cleaning agents may damage the surface. Any damage caused in this way will not be covered by warranty.

SERVICE & MAINTENANCE OF PRE-RINSE ASSEMBLY

Always refer to instructions from Enware before disassembling any fitting. Spare part kits should be on hand before any service of the tap is undertaken.

It is recommended that the trigger spray action be periodically serviced. The maintenance interval will depend on the frequency of use of the product, water quality and the general environment.

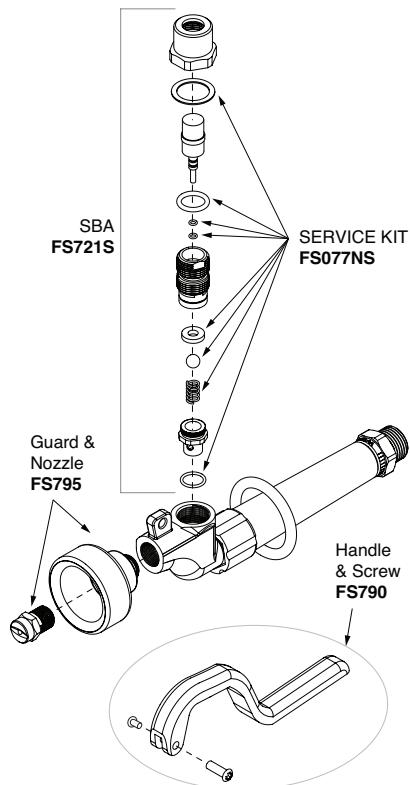
Occasionally the handle screws should be checked for tightness and a visual inspection made of all other connections on the assembly. Ensure that the trigger spray and hose, the wall bracket fixing to the wall and the riser are secure, and tighten if necessary.

The trigger spray action can be maintained by simply cleaning and lubricating the spring action, or by replacing the SBA (cartridge).

If re-greasing spindles, always use a silicon based food machinery grade lubricant approved for use with fittings that are in contact with potable water, such as Hydroseal 'O' Ring Lubricant or Molykote 111 silicone based grease.

SERVICING THE TRIGGER SPRAY

1. Using two (2) Phillips head screw drivers, undo the locking screws from the handle and remove handle.
2. Using a 26mm spanner remove the cover dome and red fibre washer from the spring loaded action. Clean the inside of the cover dome. Use a dilute solution of CLR if necessary. Remove all scale, grease and any other residues.
3. Lightly grease the inside of the dome.
4. Pull out the piston from the SBA (stuffing box assembly) and clean any scale or residues from the spindle and button. Be careful not to damage the O-rings.
5. Lightly grease the piston O-rings and push the piston back into the SBA.
6. Depress piston to start water flow. Release piston and check for leaks and that the water flow stops. If there is no flow, or water does not stop, refer to the troubleshooting guide. If the problem persists, service kits or replacement SBA may be required.
7. With the red fibre body washer located over the SBA, screw the cover dome back down onto the SBA.
8. Replace the handle and secure it with the hinge screws.
9. Re-test trigger spray for correct operation.



troubleshooting

Refer to the following troubleshooting guide for specific problems and solutions.

PROBLEM	CAUSE	RECITIFICATION
No water flow from trigger spray outlet or pot filler spout	Water supply turned off or disconnected	Connect and turn on water supply
	Check valves are blocked by debris	Remove check valves and clean Replace check valves (Located inside spring retainer fitting)
	Spray outlet, spout aerator, or inlet or outlet ports of SBA are blocked with debris	Dismantle SBA or aerator and remove blockage, clean and re-grease if necessary
Trigger spray does not turn off	Debris fouling ball seating washer or stainless steel ball	Dismantle and clean spray gun SBA. Refer to FS729 instructions
	Seating washer damaged or spring is broken	Replace damaged components or replace SBA
	Piston jammed in open position	Remove dome and piston from SBA, clean piston assembly and re-grease piston O-rings
Water leaks from top of trigger spray dome	Piston O-rings worn	Replace O-rings and re-grease spindle
Tap does not turn water off	Jumper valve is worn	Replace jumper valve
	SBA has been loosened from tap body	Tighten SBA back into body Replace fibre washer or jumper valve if required
	Jumper valve washer is missing	Check washer is installed
Water leaks from tap body	SBA has been loosened from tap body	Tighten SBA back into body
Water leaks from top of tap spindle	Gland nut has loosened or gland seal has worn	Tighten gland nut or replace SBA
Tap does not stay shut Handle operation feels loose	Gland nut has loosened or spindle thread has worn	Tighten gland nut or replace SBA
	Water supply pressures too high	Check water pressure is under 500kPa
Water leaks from O-ring joints	O-ring seal missing or damaged	Install / replace with new O-ring
	Grub screw not correctly located in the groove of riser spigot	Check that grub screw hole is aligned with the groove and install grub screw correctly into the groove of male spigot
	Groove of male spigot fitting for grub screw has worn or is broken	Replace damaged or worn part
Water leaks from hose connection to trigger spray or riser	Hose has loosened from connection	Unscrew hose from trigger or riser, clean the thread, and reseal thread with thread seal tape.
Tap is loose	Fixing bracket or fixing nut have come loose	Tighten screws on bracket or tighten fixing nut to base
	O-rings have worn out	Replace O-rings
	Grub screws have loosened	Tighten grub screws. Use Loctite 577, Loxeal or similar sealant to fix grub screw in place

spare parts

Description	Enware Part Code
Ultra-Rinse Pre-Rise Trigger Spray (Standard)	FS729
Ultra-Spray Soft Rinse outlet (Non-adjustable spray outlet attachment kit)	FS729SS-KIT
Trigger spray spring loaded SBA (cartridge)	FS721S
Trigger Spray Service Kit	FS077NS
Trigger Spray Handle & Screw	FS790
Trigger Spray guard and nozzle	FS795
O-rings (8), grub screws (4), & aerator (1) pack	FS734
Lever handle with colour indicators (for new/old style lever handle)	FSJ378-80
Lever Top Assembly (includes lever handle, Hot, Cold, Warm & grey indicators, fixing screw & washer, SBA) (for new/old style lever handle)	Hob Mount / Wall Mount / Pot Filler (Pillar / Bib) - FSJ095LTC (Anti-clockwise to close) FSJ096RTC (Clockwise to close)
	Hob Mount with Flange (Basin / Sink) - FSJ391LTC (Hot) FSJ391RTC (Cold)
Food service SBA (spindle) (for new/old style lever handle)	Hob Mount / Wall Mount / Pot Filler (Pillar / Bib) - JHS380RTC (Cold & Pot Filler / Clockwise to close) JHS380LTC (Hot / Anticlockwise to close)
Wall bracket	FS070
Heavy Duty Hose Replacement - Current Style Hose with Swivel (2024 onwards) (hose only)	FS141 (1000mm)
Heavy Duty Hose - Retrofit Kit for Old Style Pre-2024 (includes current style hose with swivel joints, spring guard, hook, spring retainer with dual check valves)	FS142 (650mm)
	FS143 (1000mm)
Riser	FS051 (100mm), FS053L (300mm), FS056 (600mm)
Pot filler adaptor (excludes spout)	FS063
Spring Retainer (retainer fitting only, for spring, hose and hook)	FS066
Trigger Spray Hook	FS072
Hob Mounted Concealed Mixer Base	FS013
Sticker Label - Lever Tap Operation	MIS620

product warranty statement - WATTS AUSTRALIA

EFFECTIVE FROM 20 November 2023

This Warranty Statement applies to products supplied by Australian Valve Group Pty Ltd (ACN 068 227 270) (**AVG**) or Enware Pty Ltd (ACN 662 302 767) (**Enware**) (each of AVG and Enware, a Supplier) and installed within Australia.

Subject to the terms and conditions outlined in this Warranty Statement, each Supplier warrants to its customers that a product supplied by it (**Product**) will be free from all defects in material and workmanship under normal usage for the applicable Warranty Period (as set out in the Warranty Table below). The Warranty Period commences from the date of delivery of the relevant Product.

1. Conditions

The warranty provided under this Warranty Statement will not apply in respect of a Product (or any Product defect, fault or resulting damage) if:

- (a) the Product is not installed and maintained in accordance with the requirements of the applicable laws, standards and codes (including, without limitation to, the National Construction Code Volume Three – Plumbing Code of Australia, associated reference standards as applicable at the time and AS/NZS 3500);
- (b) the Product is not installed and maintained by a qualified technician in accordance with the relevant installation and operation manual and instructions; and
- (c) any Product defect, faulty or resulting damage arises from:
 - (i) failure by you or any other person to follow the relevant manual or instructions (relating to the handling, storage, installation, fitting, connection, adjustment, maintenance or repair of the Product) published or provided by the Supplier;
 - (ii) 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, without limitation to, 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);
 - (iii) any parts or components not manufactured by the Supplier (or otherwise not authorised by the Supplier) are installed or combined with the Product, without the prior authorisation of the Supplier; or
 - (iv) any act or circumstance beyond our control including, without limitation to, accident, abnormal use, vandalism, fouling caused by foreign material, damage from adverse water conditions, chemical, acts of God, damage to buildings, other structures and infrastructure and loss or damage during transit or transportation of the Product, or any abuse, misuse, misapplication, improper installation or connection, or improper maintenance or alteration of the Product.

2. Make a claim

To make a claim under this Warranty Statement, you must notify the relevant Supplier in writing within 7 days of any alleged defect in the Product coming to your attention and provide the Supplier with proof of your purchase of the Product to the relevant Supplier:

- (a) If the Product is supplied by **AVG**, please contact AVG by telephone at 1800 284 287, or by email via its online portal <https://www.wattsau.com.au/support>.
- (b) If the Product is supplied by **Enware**, please complete the Product Service Request form (ENF091), which is available on request from our office (see contact details below), or online via <https://www.enware.com.au/warranty-service-form/>. All notifications and accompanying forms must be sent to Enware marked for the attention of Enware, 9 Endeavour Road, Caringbah NSW 2229. Enware can also be contacted by telephone (1300 369 273) or by email (info@enware.com.au).

On receipt of a notification from you of a claim under this Warranty Statement, the relevant Supplier may contact you requesting you provide reasonably additional evidence, information or details about your claim, or requiring that the relevant Product should be returned to the Supplier (in accordance with the Supplier's instructions) for inspection and testing.

Your failure to comply with any such request within a reasonable amount of time may result in your claim under this Warranty Statement being rejected.

3. Our responsibilities

- (a) In the event that the Supplier is reasonably satisfied that there is a defect in the relevant Product within the applicable Warranty Period, the Supplier will, at its option, replace the Product, supply an equivalent product or repair the Product, free of charge. Your costs in making a warranty claim under this Warranty Statement, including any costs in relation to freight, collection, delivery and installation, are to be borne and paid by you. However, if in respect of a Product, it is indicated in the Warranty Table that labour support will be provided, and the Supplier is reasonably satisfied that a defect in the Product takes place during the period that labour support will be provided as indicated in the Warranty Table, the Supplier will bear the costs for delivery, repair and installation of the replacement Product (as applicable).
- (b) TO THE EXTENT PERMITTED BY LAW AND SUBJECT TO PARAGRAPH 4 BELOW AND THE OPERATION OF THE AUSTRALIAN CONSUMER LAW:
 - (i) THE WARRANTY SET OUT IN THIS WARRANTY STATEMENT IS GIVEN EXPRESSLY AND IS THE ONLY WARRANTY GIVEN BY THE SUPPLIER WITH RESPECT TO THE RELEVANT PRODUCT;
 - (ii) THE SUPPLIER MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED;
 - (iii) THE SUPPLIER HEREBY SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE; AND
 - (iv) THE REMEDY DESCRIBED IN THIS WARRANTY STATEMENT SHALL CONSTITUTE THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF WARRANTY, AND THE SUPPLIER SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, OR LOST PROFITS OR THE COST OF REPAIRING OR REPLACING OTHER PROPERTY WHICH IS DAMAGED IF THE PRODUCT DOES NOT WORK PROPERLY.

4. Australian Consumer Law

This paragraph 4 applies if you are a 'Consumer' (as defined in section 3 of the Australian Consumer Law (**ACL**)) and the Product or services supplied to you falls within the goods or services which, for the purposes of the ACL, are of a kind ordinarily acquired for personal, domestic or household use or consumption.

The Products and services provided by the Supplier come with guarantees that cannot be excluded under the ACL, and noting in this Warranty Statement should be interpreted as attempting to exclude, restrict or modify such guarantees or your rights under the ACL. For major failures with any services, you are entitled:

- (c) to cancel your service contract with us; and
- (d) to a refund for the unused portion, or to compensation for its reduced value.

You are also entitled to choose a refund or replacement for major failures with Products. If a failure with the Product or a service does not amount to a major failure, you are entitled to have the failure rectified in a reasonable time. If this is not done you are entitled to a refund for the Products and to cancel the contract for the service and obtain a refund of any unused portion. You are also entitled to be compensated for any other reasonably foreseeable loss or damage from a failure in the Products or service'.

5. Warranty table

*The applicable period commences on the date of delivery of the Product.

PRODUCT GROUP	PRODUCT SERIES CODES	WARRANTY PERIOD (YEARS)*	LABOUR SUPPORT (YEARS)*
Food Service	FWS/FHS/FS/FSB	2	2