IMPORTANT SAFEGUARDS

WHEN USING ANY ELECTRICAL APPLIANCE, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED.

PLEASE READ ALL INSTRUCTIONS CAREFULLY AND RETAIN FOR FUTURE REFERENCE

IF IN ANY DOUBT ABOUT THE INSTALLATION OR USE OF THIS PRODUCT, CONSULT A COMPETENT ELECTRICIAN.

SPECIFICATION: HWA3
RATING: 230-240V, 3000W, ~50Hz;
DIMENSIONS: 170w x 190h x 80d mm; 1.05kG

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist.
Check with your local authority or retailer for recycling advice.
Safety Warnings

- The installation **MUST** be carried out by a suitably qualified person and conform with IEE regulations and national water council bylaws.
- This hand wash unit is designed to be connected to a 15 mm cold water mains supply. Do not connect to a tank supply unless a suitable booster pump is fitted.
- This hand wash unit **MUST** be connected to the mains cold water supply with a minimum running pressure of 100kPa (15psi–1 bar) and a maximum static pressure of 1000kPa (150psi–10 bar).
- This hand wash unit **MUST NOT** be fitted where it may be exposed to frost, for example in an outdoor area. The hand wash **MUST NOT** be used if suspected of being frozen. Frost damage is not covered by the guarantee.
- Plumbers jointing compound **MUST NOT** be used. Where required use PTFE tape to make the joint secure. The use of compound will invalidate the guarantee.
- All plumbing connections **MUST** be completed before making the final electrical connection to the hand wash unit.
- The outlet of the hand wash acts as an open outlet vent and **MUST NOT** be connected to any form of tap or fitting not recommended by the manufacturer.
- For long periods of inactivity it is recommended that the hand wash unit is switched off at the electrical isolation switch.

Dimensions and pack contents

- **Pack contents**
  - Please make sure **ALL** components are included before starting the installation.
  - Hand wash heater unit.
  - Swivel arm assembly complete with spray plate.
  - Screw pack for wall fixing.
  - Installation and user instructions.
Installation

Installation Procedure
Plan the installation carefully. Check on the nearest and most convenient rising cold water mains supply.

Do not connect to a tank supply unless a suitable booster pump is fitted.

Avoid connecting the hand wash unit where it will be affected by water drawn off by other appliances. For example from the mains feed to a WC as this could cause a drop in pressure too low for the hand wash unit to work correctly.

A WRAS (Water Regulations Advice Scheme) listed isolating valve must be fitted between the rising main and the unit to allow for routine maintenance and servicing.

Installation Sequence
We recommend that this hand wash unit is installed in the following sequence:
- Select a suitable position for the hand wash unit
- Check that water and cable entry points of the unit meet requirements
- Fit the swivel arm to the unit
- Fix the unit to the wall
- Plumbing connection
- Electrical connection
- Fit the front cover
- Commission the hand wash unit

Positioning and mounting the unit on the wall
- Before removing the front cover check that the rotary temperature control is set fully anti-clockwise to full flow – see figure 2.
- Remove the cover retaining screws which are located at the top and bottom of the unit and lift off the front cover complete with the controls.
- Remove the water inlet cover positioned to the bottom right of the back plate.
- Choose the entry position for the mains water supply pipe and cable. Bottom, top or rear on the right hand side are options and remove the relevant recess in the back plate or lower corner section with a sharp knife, taking great care – see figure 3.
- The unit should be sited so that all the spray from the spray outlet is contained in the sink or basin. Two keyhole slots are provided at the top of the back plate to allow easy positioning and should be marked and drilled using a sharp 5.5 mm masonry drill.

- Insert the top screws into the wall plugs leaving about 6–8 mm of the head protruding and hook the back plate over the screw heads. Align the unit horizontally and mark and drill the lower fixing position.
- Secure the unit on the wall. The slots are elongated to allow for final adjustment.

NOTE: You may find it easier to fit the spray arm to the heater before the unit is mounted to the wall. Ensure the connection is tight and that the arm is free to swivel through 180 degrees.

Plumbing connection

IMPORTANT: Plumbing the hand wash unit must precede the wiring connection.
- Turn off the water supply at the isolating stop tap.

IMPORTANT: Before completing the mains water connection to the inlet of the unit flush out the pipe work to remove all swarf and system debris. This can be done by attaching a hose to the mains water inlet pipe and directing the flow into the basin.
- Connect the mains water supply to the inlet of the hand wash using a 15mm copper, stainless or plastic pipe with a 15mm compression elbow or 15mm push fit elbow. Do not use excessive force when making the connection to the unit.
- If rear entry pipe work is used we recommend the use of a suitable sealant to seal around the incoming pipe work to prevent water entering the wall.
- Turn on the water supply at the isolating stop tap and check for leaks in the pipe work connection to the hand wash. At this stage no water can
flow through the heater.

IMPORTANT: Re-fit the water inlet cover. Fix the spray arm to the heater (if not already done) and tighten ensuring that it is free to swivel through 180 degrees.

Check again that the wall fixing screws are secure.

Electrical connection

The HWA3 3 kW hand wash unit must be connected to a 240-230V single phase AC electrical supply with a switched spur fused at 13 Amps.

The electrical installation must be in accordance with the current BS 7671 (IEE wiring regulations) and part P of the building regulations and or local regulations.

- Switch off the electricity supply

**NOTE:** The cable can be surface clipped, hidden or via conduit. Use 3 core cable, 1.5mm cross sectional area and double insulated.

- The incoming mains cable can enter the unit from the top, bottom or rear of the unit on the right hand side. If top or bottom entry is chosen remove the relevant recess in the back plate with a sharp knife, taking great care.

- Strip back the mains cable approximately 10 mm and connect:
  - Earth cable to terminal marked L
  - Neutral cable to terminal marked N
  - Live cable to terminal marked L

Fitting the front cover

**IMPORTANT:** It is necessary to engage the temperature control knob in the correct position on the valve spindle before the front cover is located.

- Before replacing the front cover check that the valve spindle and temperature control knob are set fully anti-clockwise to full flow.

- Secure the front cover with the two fixing screws provided.

**IMPORTANT:** Ensure that the rotary temperature control is positioned fully anti-clockwise and that the valve is fully open. This will ensure a fast water fill up of the hand wash unit and avoid potential damage to the heating elements – see figure 6.

Commissioning the unit

- Position the outlet spray arm over the sink.

- Make sure that the water supply is turned on fully at the isolating stop tap.

- Switch ON the power supply at the local isolating switch.

- Place hand in front of the sensor lens approximately 150mm (6 ins) away. The unit will start.

- Allow the unit to fill with water and purge air out of the system.

**NOTE:** At this point the heating element will not be energised as the unit...
How your HWA3 Auto Handwash unit works

- Water is heated instantaneously as it flows over the heating elements in the heat exchanger.
- The required water temperature is achieved by adjusting the rate of water flow. The higher the flow rate the lower the temperature rise and the lower the flow rate the higher the temperature rise.
- The hand wash transmits an infra red beam which when reflected by your hand switches the unit on. The unit can be turned off by this method however if no off signal is received the unit will switch itself off automatically after approximately 25–30 seconds.
- The heating element is only switched on when sufficient water is flowing through the hand wash unit. This is done automatically with an internal switch that works on water pressure.
- The flow of water through the hand wash is automatically held at the level set by the user even if the inlet supply pressure fluctuates. This is done with a flow stabiliser built into the temperature control valve.
- If the incoming water supply pressure falls below a set limit, the pressure switch will operate and switch off the power to the heating element.
- The heater unit incorporates a pressure relief device to safeguard against abnormal pressure conditions and provides a safeguard should an excessive build up of pressure occur within the unit.

Maintenance

We recommend that the electrical isolating switch is turned off, thus avoiding accidentally switching the unit on whilst cleaning.

The hand wash casing should only be cleaned using a soft cloth. The use of abrasive or solvent base cleaners will damage the plastic surface.

The spray head should be cleaned periodically to remove lime scale or debris which will reduce the performance of the hand wash. The frequency of cleaning will vary according to local water quality. In hard water areas cleaning will be needed more often than in soft water areas.

Scrub the spray plate at the end of the spray arm with a small, stiff bristled brush, if the deposits are stubborn remove the spray rings and immerse in a lime scale remover solution.

**IMPORTANT:** Ensure all traces of lime scale remover are rinsed off before re-fitting.
Troubleshooting and Frequently Asked Questions
If the hand wash unit is not working satisfactorily make the following checks before calling out the installer.

Q. Water is too HOT.
   A Increase water flow by rotating the temperature control knob anticlockwise. Allow time for temperature to reduce.

Q. Water is too COLD.
   A Decrease water flow by rotating the temperature control knob clockwise. Allow time for the temperature to increase.

Q. Water takes longer to heat up.
   A Thermal cut-out has operated after previous use and will automatically reset when the unit cools down.

Q. Water goes cold while using hand wash.
   A Check power is on to the unit.
   Check water pressure has not fallen so far as to let the pressure switch turn off.

Q. Spray pattern is poor.
   A Remove spray plate from spray arm and de-scale.

Q. Water is too COLD.
   A Check the circuit through the thermal cut out.
   Check that the pressure switch RED LOCK MOULDING has been removed.
   Check the circuit through the micro switch on the pressure switch.
   Check the element circuit.
   Check the tightness of the electrical connections.

Q. No control over the water.
   A Remove the head works of the temperature stabiliser valve.
   Check the stabiliser tapered core and ‘O’ ring is in place.
   Remove any debris from the valve.

Q. Water discharges from the unit base.
   A Pressure relief device has blown.
   Check for cause of high internal pressure such as blocked or scaled up outlet and remove it.
   Replace the pressure relief disc. Please note that this is not covered by the product guarantee.