

ULTRAWASH 3.0kW

ELECTRIC HANDWASH INSTALLATION AND USER INSTRUCTIONS

Please read and understand these instructions before commencing installation.

Please leave these instructions with the user.

INTERNAL COMPONENTS

A pressure relief device (PRD) is designed into the hand wash unit which meets European Standards. The PRD provides a level of appliance protection should an excessive build-up of pressure occur within the unit.

DO NOT operate the appliance with a damaged spout or blocked spray plate, which can cause the PRD to operate.

1 SAFETY

IMPORTANT INFORMATION

- 1.1 This product is manufactured to European and British Standards and is safe and without risk, provided it is installed, used and maintained in good working order in accordance with these instructions and recommendations.
- 1.2 Read all these instructions before starting work and retain them for later use.
- 1.3 DO NOT operate the unit if it is frozen, or suspected to be frozen. It must thaw out before using.
- 1.4 DO NOT operate the unit if :-
 1. Water ceases to flow during use.
 2. Water has entered inside the unit because of an incorrectly fitted cover
 3. If the unit is damaged.
- 1.5 ISOLATE the electrical and water supply before removing cover.
- 1.6 ISOLATE electrical and water supplied before removing cover.
- 1.7 The unit must be mounted onto a finished wall surface (or on top of tiles).
- 1.8 DO NOT tile up to unit after fixing to wall
- 1.9 The spray plate must be cleaned when any of its holes become blocked, otherwise restriction to the flow from the outlet spout will result in high temperatures and could also cause the PRD to operate (see 1.1 and 1.2).
- 1.10 The unit is not suitable for mounting into steam rooms or steam cubicles.
- 1.11 **CAUTION.** It is recommended that persons who have difficulty understanding or operating these controls should not be left unattended when washing hands. Special consideration should be given to young children and the less able-bodied.
- 1.12 Only use designated entry points for cable and pipe.

PLUMBING

- 1.13 The plumbing installation must comply with Water Regulations.
- 1.14 The supply pipe must be flushed to clear debris before connecting to the handset unit.
- 1.15 DO NOT solder pipes or fittings within 380mm of the appliance, as heat transfer can damage components.
- 1.16 **DO NOT FIT ANY FORM OF OUTLET FLOW CONTROL AS THE OUTLET ACTS AS A VENT FOR THE HEATER CAN.**
- 1.17 Do not use excessive force when fitting spout fixing nut; finger tightness is sufficient.
- 1.18 All plumbing connections must be completed and checked for leaks before making electrical connections.

ELECTRICAL

- 1.19 Before fitting the unit, ensure that the consumer unit and any switches are suitable for the additional load. If in doubt, contact your electricity supplier.
- 1.20 The installation must comply with BS 7671 "Requirements for electrical installations" (IEE Wiring Regulations).
- 1.21 **CAUTION** - This Appliance Must Be Earthed.
- 1.22 Fuses do not give personal protection against electric shock. To enhance electrical safety a 30mA residual current device (RCD) should be installed in all electric hand wash circuits. This may be part of the consumer unit, or a separate unit.
- 1.23 Ensure that all terminal block connections are sufficiently tight.
- 1.24 Switch off appliance immediately and isolate if water ceases to flow during use.
- 1.25 Other electrical equipment e.g. extractor fans must not be connected to the hand wash or its supply circuit.
- 1.26 The appliance must be switched off at the isolating switch when not in use

2. TECHNICAL SPECIFICATIONS

2.1 CONNECTIONS

Inlet connection - 15mm ext. diameter copper pipe.

Water entry point - bottom

Cable entry point - bottom and rear

2.2 Electrical 3.10kw - 12.9 amps at 240 Volt .
2.85kW - 12.4 amps at 230 Volt
Use 1.5 sq.mm . cable minimum.

2.3 Materials : Back plate, cover and control knob - high impact Polystyrene
Heating element - copper sheathed rod-type

2.4 Dimensions Height: 210 Width: 164 Depth: 77

2.5 Standards and Approvals. Complies with the requirements of EN60335-2-35.
NEMKO Approved
Complies with European Community Directives (CE)

4 SITE REQUIREMENTS

- 4.1 **WARNING** - The hand wash must not be positioned where it may be subjected to freezing conditions.
- 4.2 Water requirements. The installation must be in accordance with Water Regulations. To ensure activation of the heating elements, the hand wash must be connected to a water supply with a minimum running pressure of 1 Bar (14.5 psi) and a maximum static pressure of 3 Bar (45 psi). If in doubt, the pressure should be checked taking into account of other services from the mains water supply which could cause the pressure to fall below the minimum. The water supply can also be taken from a cold water storage cistern provided there is a minimum head of 10m above the unit. It must be an independent supply to the hand wash only.
- 4.3 If the hand wash is operated outside of the stated pressure parameters, it may not be possible to achieve optimum performance from the unit throughout the year.

ELECTRICAL REQUIREMENTS

- 4.4 **WARNING - THIS APPLIANCE MUST BE EARTHED**
- 4.5 **IMPORTANT** The installation, supply cable and circuit protection must conform to BS7671.
- 4.6 Before making any sort of electrical connection ensure that no terminal within the circuit is live. If in any doubt, SWITCH OFF the whole installation at the consumer unit.
- 4.7 The hand wash must only be connected to a mains supply not exceeding 240 Volt ac supply.
- 4.8 The earthing and protective conductor arrangement within the property, in particular the supplementary bonding in the room containing the hand wash, shall comply with BS7671.
- 4.9 Ensure that the supply cable and fuse are sufficient for the rating input of your unit. Please refer to the rating label on the unit.
- 4.10 A minimum cable size of 1.5 sq. mm must be used. The hand wash can be connected in two different ways:
- Via a fused and switched connection unit taken as a spur from a 13 Amp ring main
 - As a separate circuit taken directly from a spare way in a consumer unit.
- In each case, a double pole isolating switch having a contact separation of at least 3mm in each pole and a minimum rating of 13 amp must be incorporated in the wiring to the unit.

5. CONSIDERATIONS BEFORE FITTING

IMPORTANT

- 5.1 The unit must be mounted on a flat surface, which covers the full width and length of the back plate. It is important that the wall surface is flat, otherwise difficulty may be encountered when fitting the cover.
- 5.2 Ensure that the hand wash is positioned over the basin because if the pressure relief device operates, water will eject from the bottom of the unit.
- 5.3 The outlet of the hand wash acts as a vent and MUST NOT be connected to any form of outlet or any other fitting.
- 5.4 DO NOT fit the hand wash to the wall and tile up to the case. It must be fitted to a flat and even wall surface. This allows removal for servicing.
- 5.5 The control knob is an integral part of the cover - do not attempt to remove it.
- 5.6 Position the unit on the wall so that the spray will be contained within the basin, and at a convenient height for hand washing
- 5.7 It must not be installed for use as a shower unit, or in an area where the unit may be subjected to direct spraying .
- 5.8 A clearance of at least 130mm above and below the unit should be allowed for access to the cover screws.
- 5.9 Cable entry - can be from the rear (preferred) or from the side. The back plate has a cut-out position to suit the size of cable.
- 6.0 Pipe Entry. Plumbing entry is from the bottom.

6 FITTING INSTRUCTIONS

- 6.1 TURN OFF water and electrical supply
- 6.2 Unscrew the retaining screw on the cover base and lift the cover from the back plate
- 6.3 Fit the outlet spout DO NOT over tighten - finger tight will be sufficient
- 6.4 After choosing the correct site for the hand wash, use the back plate as a template and mark the two fixing holes. See 5.1 to 5.7
- 6.5 Drill holes using 6.5mm diameter masonry drill - BEWARE OF CABLES AND PIPES THAT MAY BE BURIED IN THE WALL
- 6.6 Use plugs to suit wall and fixing screws supplied
- 6.7 PIPE CONNECTION. The outlet pipe can be removed to ease installation
- 6.8 The hand wash has been designed for a 15mm water pipe, fitted to the blue (cold water) inlet by the compression type tap connector to suit a 15mm pipe.
- 6.9 Decide where to connect the cold water supply mains feed to the unit. Ensure the pipe you have selected is not a gas pipe or hot water pipe.
- 6.10 An isolating stop valve MUST be incorporated to the main water supply to comply with water regulations - see fig 4.
- 6.11 Cut all necessary pipe work to length with a pipe cutter, not a hacksaw to minimise swarf.
- 6.12 Assemble the installation before making any soldered joints to ensure that the pipe is the correct length. DO NOT use jointing compounds on any pipe fittings for the installation
- 6.13 It is essential to flush the pipe in order to clear debris and swarf.
- 6.14 Turn the water off after flushing using the isolating stop valve.
- 6.15 Connect the cold water supply (marked blue on the unit) to the heater inlet, using the tap connector fitting.
- 6.16 Fit top and bottom screws and secure the back plate to the wall, ensuring it is level.
- 6.17 Close the hand wash flow control valve by turning the knob fully anticlockwise.
- 6.18 Turn on the isolating stop valve on slowly, and check for leaks in the pipe work, and rectify where necessary.
- 6.19 Turn off the isolating stop valve.

7 ELECTRICAL CONNECTIONS

- 7.1 **WARNING - THIS APPLIANCE MUST BE EARTHED**
- 7.2 **CAUTION!!** When working on electrical appliances, ensure they are NOT LIVE. If in any doubt, SWITCH OFF THE ELECTRICITY SUPPLY AT THE MAINS.
- 7.3 A double-pole isolating switch having a contact separation of at least 3mm in each pole MUST be incorporated in the circuit - see paragraphs 4.10 and 4.11
- 7.4 The cable entry should have been decided before fitting the back plate - see 5.8
- 7.5 Remove the screw and clamping bar from the cable clamp.
- 7.6 Feed the cable into the back plate (unscrew the back plate for easy feeding if necessary).
- 7.7 Strip the outer sheath of the cable to a point about 5mm above the clamp, thus ensuring that the cable is clamped across its outer sheath.
- 7.8 Strip the insulation from the cores and make connections : Red/Brown to "L" Live terminal;
Black/Blue to "N" Neutral terminal

- 7.9 Make sure all the terminal block screws are tightened firmly
7.10 Refit the clamp bar securely.

FITTING THE COVER

- 7.11 Fit outlet spout
7.12 Check that the flow control valve is fully closed by turning the knob fully anticlockwise
7.13 Place the cover onto the back plate, and secure the cover using the screw in the base. Ensure that the control valve knobs seats correctly into the cover.
7.14 Turn the control valve to MAX setting.

8 COMMISSIONING

Note: The first operation of the hand wash is intended to ensure the heater unit contains water before the unit is switched on.

- 8.1 Fully turn on the mains water supply at the isolating stop valve. Then slowly turn the control knob towards MIN (it will take about 30 seconds for a smooth flow of water to be obtained whilst all air is being dispersed from the heater).
8.2 Stop the water flow by turning the control knob to MAX
8.3 Turn on the electrical supply to the heater at the isolating switch.
8.4 Turn the control knob to a point halfway between MIN and MAX. After about 30 seconds the water will start to heat.
8.5 To obtain warmer water turn the control knob towards MAX, for cooler water turn the knob towards MIN.
8.6 Shut off the heater by turning to control knob fully clockwise.
8.7 The neon light will illuminate when the water is running.

9 FAULT FINDING

- 9.1 In the unlikely event of a problem, consult the trouble-shooting section below
9.2 If you are unable to remedy the problem, CONSULT YOUR INSTALLER IN THE FIRST INSTANCE.
9.3 IMPORTANT - Do not attempt any electrical work unless you are competent so to do.
9.4 If you still cannot solve the problem, contact the Hyco Manufacturing Technical Department at the address below.

Trouble Shooting

Symptom	Possible Cause	Remedy
1. No water flows with valve open	A) Water supply turned off	Turn on water supply
	B) Unit frozen	Turn off electricity at isolating Switch and contact installer. DO NOT USE HEATER
	C) Spout blocked	Clean spout spray - see 10.2
2) Water too cold	A) Water control knob at wrong setting	Turn knob clockwise until temperature is comfortable
	B) Water flow too high	As above
	C) Electricity off	Turn on power at mains switch
3) Water too hot	A) Temperature control knob at wrong setting	Turn knob fully anticlockwise to increase flow and lower temperature
	B) Spout partly blocked	Clean spout spray – see 10.2
	C) Isolating valve not fully open	open isolating valve

10 MAINTENANCE

- 10.1 IT IS MOST IMPORTANT TO KEEP THE SPOUT SPRAY CLEAN IN ORDER TO MAINTAIN THE PERFORMANCE AND SAFETY OF THE HEATER. The hardness of the water will determine the frequency of cleaning.
10.2 To clean the spray, unscrew anticlockwise using a suitable Phillips type screwdriver. Ensure all holes in the spray plate are clean. It is recommended that the spray plate is soaked overnight in a suitable de-scaleant solution. Re-fit spray plate after cleaning. DO NOT OVERTIGHTEN

GUARANTEE AND SERVICE POLICY

- This product is guaranteed against faulty materials and manufacture for a period of one year from the date of purchase provided that :-
 - The unit has been installed in accordance with all Installation and User Instructions and all relevant codes of Practice and Regulations in force at the time of Installation, and that all necessary controls or safety valves have been fitted correctly.
 - Any valves and controls are recommended by Hyco Manufacturing Ltd.
 - The unit has not been modified or tampered with in any way and has been correctly and regularly maintained as detailed in these user instructions.
 - The unit has been used only for heating clean mains tap water
- The unit is not guaranteed against damage by frost and the inner container with the integral heating element is not guaranteed against excessive scale build-up.
This guarantee does not in any way affect the statutory rights of the consumer
The policy of Hyco Manufacturing Ltd is one of continuous product development and as such we reserve the right to change or amend specifications with notice