AQUALISA

Aquastream®

Thermo

Thermostatic integral power shower

Installation guide

Aquastream Thermo
Thermostatic integral power shower

Satin chrome
813.40.01

White/chrome
813.40.21

White
813.40.20

Components

Important information

Introduction

The Aquastream Thermo power shower system is a surface mounted thermostatic shower unit with integral pump suitable for top, bottom or rear entry pipe work.
The thermostatic shower provides close temperature stability and fail safe protection when installed on gravity fed systems.
If you have any questions at any stage during installation then please contact the Aqualisa customer helpline on 01959 560010 for advice.

The Aquastream Thermo shower system is designed to operate up to a maximum static pressure of 0.1 MPa (1 bar) (14.5 psi).

UNDER NO CIRCUMSTANCES SHOULD AN AQUASTREAM BE CONNECTED DIRECTLY TO THE WATER MAINS OR IN-LINE WITH ANOTHER BOOSTER PUMP.

Safety information

This product must be installed by a qualified person in accordance with all relevant current Electrical and Water Supply Regulations.

Electrical supply and bonding of the bathroom must comply with current IEE regulations with your attention particularly drawn to the requirements concerning protective earth bonding.

The unit must not be installed in situations where the ambient temperature is likely to fall below 5°C or rise above 40°C.

Cables which are chased into the wall must be protected by the use of conduit or sheathing. Surface mounted cables must also be protected by a suitable approved conduit.

ALL SHOWERS REQUIRING AN ELECTRICAL CONNECTION MUST BE INSTALLED BY A QUALIFIED PERSON FOLLOWING THE LATEST REVISION OF BS 7671 (WIRING REGULATIONS) AND CERTIFIED TO CURRENT BUILDING REGULATIONS.

The Aquastream Thermo is suitable for household use only.

This product 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 initial supervision or instruction concerning the use of the product by a person responsible for their safety.

Children should be supervised to ensure they do not play with the product.

Flushing

Some modern fluxes can be extremely corrosive and, if left in contact, will attack the working parts of this unit. All soldering must be completed and the pipe work thoroughly flushed out in accordance with current Water Supply Regulations prior to connection of the product.

Connections

The Aquastream Thermo incorporates 'push fit' type connections suitable for use with 15mm British Standard copper tube (it is imperative that chrome plating is abraded where contact is made with the grip teeth). Tube should be cut using a rotary type cutter and lubricated using a silicone based lubricant or petroleum jelly (Vaseline or similar) prior to insertion into the fitting. Supply lines should be flushed clear of any debris prior to installation of the unit. The Aquastream Thermo is supplied for connection to conventional supplies with HOT on the LEFT and COLD on the RIGHT when viewed from the front.

THE AQUASTREAM THERMO IS NOT SUITABLE FOR REVERSED CONNECTIONS.

THE AQUASTREAM THERMO IS NOT SUITABLE FOR STAINLESS STEEL TUBE.

If plastic pipe is to be used, the tube insert must not increase the tube diameter or extend the cut off length by more than 2mm.

Isolating valves

Suitable isolation valves such as gate valves must be fitted to both supplies in accordance with the current Water Supply Regulations and our terms of warranty. Due to their restrictive characteristics, stopcocks and ball type valves that reduce the pipe bore size must not be used on gravity or pumped installations.

Filters

To ensure ongoing optimum performance the internal control mechanism ‘cartridge’ is protected by a two-part filter system. Debris accumulation may result in reduced flow from the shower head and noisy operation.
As this condition is not covered by our standard warranty terms, it is suggested that the cartridge be removed and the filters checked by a competent person. In the event of any difficulties please contact the Aqualisa customer helpline for assistance.

Siting

The Aquastream Thermo unit must be sited so that the top of the casing is below the underside of the cistern. The casing must not be sited where it is subjected to continuous spray from the shower head.

Stored water capacities

The minimum capacity of the cold storage cistern should not be less than 225 litres (50 gallons). The capacity of the hot cylinder must be capable of meeting the anticipated demand.

Gravity fed hot and cold supplies

The Aquastream Thermo shower system is designed to operate up to a maximum static pressure of 0.1 MPa (1 bar) (14.5 psi).

Services must be installed according to good plumbing practice having regard to pipe sizing, long pipe runs and low-head situations.

The cold supply for the valve assembly must be taken directly from the cold storage system. The hot supply may be taken from the vent/draw off pipe of the hot water cylinder at a point below the cylinder connection or alternatively from the underside of the horizontal draw off.

Rising pipe work must not be connected into the horizontal draw-off from the cylinder or to any point in the vent/draw off pipe above the cylinder connection.

CYLINDER TEMPERATURE IN EXCESS OF 65°C MAY RESULT IN POOR SHOWER PERFORMANCE.

Pipe work can generally be run in 15mm.

A typical layout is shown on the reverse of this guide.

Installation instructions

In addition to the guide below it is essential that the written instructions overleaf are read and understood and that you have all the necessary components (shown overleaf) before commencing installation. Failure to install the product in accordance with these instructions may adversely affect the warranty terms and conditions. All showers requiring an electrical connection must be installed by a qualified person following the latest revision of BS 7671 (Wiring Regulations) and certified to current building regulations.

The Aquastream Thermo is supplied with universal fixings.

1

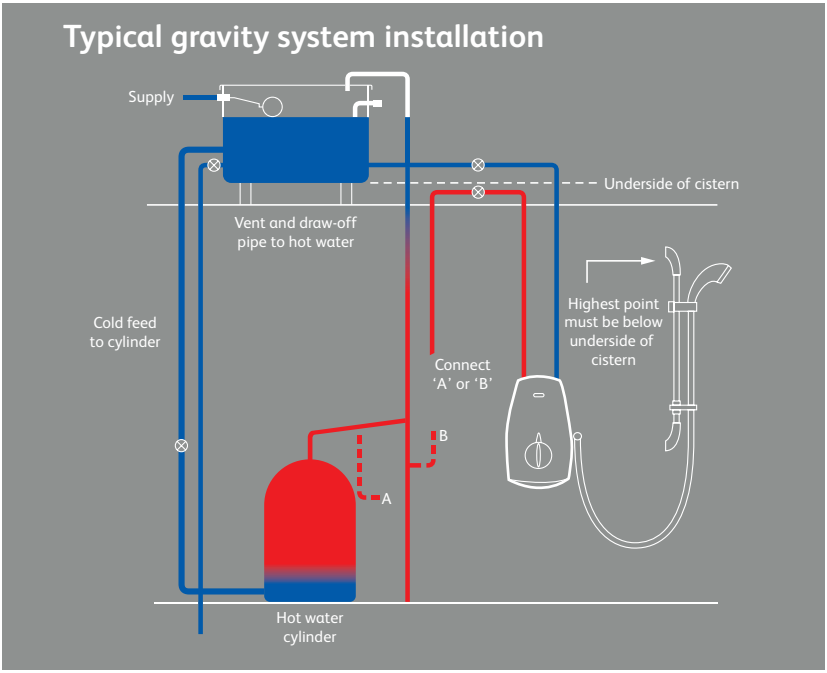
Using the template provided, mark out the fixing points and entry point for the low voltage cable and rear entry pipe work as necessary. Remove the template and prepare suitable wall fixings and entry points as required.

2

Site the transformer within 4 metres cable distance from the Aquastream Thermo unit. Ensure that there is free air movement around the transformer housing. Do not fit close to heating or hot water pipes as the transformer has a maximum operating temperature of 40°C. If the transformer is to be sited in the bathroom area, it must be sited away from the bather behind a screw panel. Allow 150mm working end of low voltage cable to project from the wall. Suitable electrical conduit should be used to protect exposed or concealed cables.

DO NOT MAKE ANY ELECTRICAL CONNECTIONS AT THIS POINT.

Typical gravity system installation



3 Set the temperature control to full cold (9 o'clock). Insert a small flat headed screwdriver into the screwdriver slot taking care not to damage the surrounding plated surfaces and carefully remove the Aquastream Thermo control knob from the unit by pulling it away from the product.

4 Set the control lever to mid-blend (12 o'clock) position prior to removing the three fixing screws and withdrawing the lever. Remove the fixing screw from the top of the Aquastream Thermo casing and pull the front cover away from the unit.

! The Aquastream Thermo has been designed to accept rear entry concealed pipe work or exposed top or bottom entry pipe work.

Rear entry installation

5 The 15mm supply pipes must emerge at 90° angles from the finished wall surface spaced at 65mm centres. Ensuring correct alignment of the gripper ring assembly, slide over the projecting pipes flush to the wall surface. Trim the supply pipes to their finished length (18-22mm) using a rotary type cutter.

6 Briefly run the hot and cold supplies to flush out any debris that may be present in the system.

7 Remove the bung from the rear inlets of the Aquastream Thermo unit using a suitable long nosed tool.

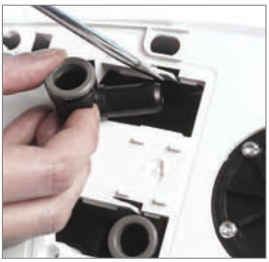
8 Lubricate the supply pipe ends using a silicone based lubricant and carefully slide the Aquastream Thermo unit onto the pipes whilst feeding the low voltage cable through the cable entry point. Secure the unit to the wall using the screws provided.

Proceed to step 17.

Top entry pipe work

9

Remove the rear entry elbows from the top inlets by depressing the retaining catch and pulling the elbow clear. Remove the cover plate from the top of the unit and replace it with the top entry cover plate (with holes) supplied, to allow pipe entry.



10

Screw in the two upper fixing screws leaving the heads projecting about 10mm from the wall surface. Feed the working end of the low voltage cable through the entry point in the back plate. Locate the back plate in position on the projecting screw heads. Ease the back plate downwards and engage the screws in the slots. Fix the lower fixing screw and tighten the upper fixing screws.

11

The pipe insertion depth measured from the point of entry into the top fitting is 160mm at 65mm centres. Where plate copper tube is to be used, it is imperative that the plating is removed from an area measured 135-155mm to allow for full retention by the gripper rings located in the top fitting.

12

Lubricate the supply pipe ends with a silicone based lubricant and push into the unit fully home.

!

Should it be necessary to remove the unit from the wall at any time, pipe release tools are located in the inside of the front cover. These should be inserted into the locking collets and depressed as the pipes are withdrawn.

Proceed to step 17.

Bottom entry installation

13 Prepare the bottom entry ports by holding down the locking collets on the inlet fittings and pulling the bungs free using a suitable long nosed tool.

14 Screw in the two upper fixing screws leaving the heads projecting about 10mm from the wall surface. Feed the working end of the low voltage cable through the entry point in the back plate. Locate the back plate in position on the projecting screw heads. Ease the back plate downwards and engage the screws in the slots. Fix the lower fix screw and tighten the upper fixing screws.

15 The pipe insertion depth measured from the point of entry is 50mm at 65mm centres. Where chrome plated copper tube is to be used, it is imperative that the plating is removed from an area measured 20-35mm to allow for full retention by the gripper rings located in the bottom fitting.

16 Lubricate the supply pipe ends with a silicone based lubricant and push into the unit fully home.

17

To ensure correct orientation of the on/off shower control knob, the on/off valve shaft and on/off knob are manufactured with a flat face which must be aligned before the knob is fitted. Temporarily fit the on/off control knob and rotate fully clockwise to the off position. Turn the supplies on to check for leaks upstream of the unit. If all is sound, turn off the supplies.

!

BEFORE ANY ELECTRICAL CONNECTION IS ATTEMPTED, THE ELECTRICAL SUPPLY MUST BE TURNED OFF AT THE MAIN SWITCH. FAILURE TO DO SO COULD RESULT IN ELECTROCUTION.

ALL SHOWERS REQUIRING AN ELECTRICAL CONNECTION MUST BE INSTALLED BY A QUALIFIED PERSON.

Electrical installation

18

Strip back approximately 10mm of insulation on each of the wires in the low voltage cable. Lift the connector block clear of the mounting pins. Connect the corresponding coloured low voltage wires into the other side of the connection block. Refit the block back onto the mounting pins.

19

Prior to refitting the front cover, temporarily refit the temperature lever and rotate to the mid blend position (12 o'clock). Remove the lever and refit the front cover by locating the bottom of the front cover into the fixing lugs and pushing the front cover fully home. Secure using the fixing screw at the top of the front cover ensuring not to overtighten.

20

Refit the temperature lever in the mid-blend position and secure using the 3 temperature lever screws hand tight only. Refit the on/off control ensuring the 2 flat faces are aligned and push fully home.

21

The 230-volt mains supply to the transformer may be taken from the domestic lighting or power ring main via an approved double-pole switched fused spur outlet incorporated in the fixed wiring circuit in accordance with the current wiring rules. The value of the spur fuse must not exceed 3 amps. Should the transformer cable suffer any mechanical damage, it will be necessary to replace the complete transformer assembly.

!

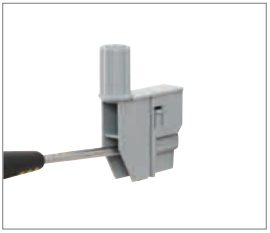
THE POWER SUPPLY TO THE AQUASTREAM THERMO MUST BE ISOLATED BEFORE REINSTATING THE DOMESTIC ELECTRICAL SUPPLY.

ALL COPPER PIPE WORK MUST BE CROSS BONDED AND CONNECTED TO A RELIABLE EARTHING POINT.

Slider rail installation

22

Drill and plug 2 holes 526+/- 3mm apart using the fixings provided, if suitable. Fix the bottom rail bracket into position using the screws provided, if suitable.

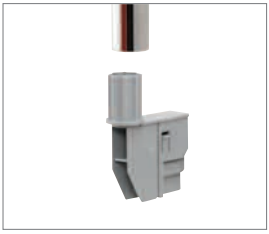


23 Pass the rail through the handset holder while keeping the slider levers depressed.

24 Carefully slide the gel hook onto the rail under the handset holder.

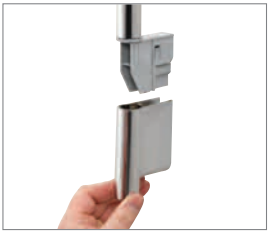
25 Current water supply regulations state that the handset should not be allowed to pass a point 25mm above the spill over level of the bath or shower tray. If this cannot be achieved, the hose must be passed through the gel hook which has also been designed to be utilised as a hose restraint.

26 Place the rail assembly onto the bottom fixing bracket taking care to engage the rail location slots on the bracket lugs.



27 Place the top fixing bracket into position and secure to the wall using the screws provided, if suitable.

28 Slide the rail end covers onto the rail brackets and click into position.



29 Pass the hose through the gel hook.

30 Ensuring the hose washers are in the correct position, depress the anti-swivel locking button on the handset and secure the handset to the hose. Place the handset into the handset holder.

The Waste Electrical and Electronic Equipment (Producer Responsibility) Regulation 2004

This product is outside the scope of the European Waste Electrical and Electronic Equipment Directive as interpreted within the UK.
In the UK this product can therefore be disposed of through commercial non-WEEE waste facilities.
The original manufacturer does not accept any liability under the WEEE directive within the UK.
In other EU countries the WEEE directive may apply and, at end of life, product must be disposed of at a suitable WEEE recycling centre

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