

AQUALISA

# Quartz®

Digital

Concealed body jet system



**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.

# Shower systems

Quartz Digital concealed  
standard body jet system

**QZ.C1.BV.05**

Quartz Digital concealed  
pumped body

jet system

**QZ.C2.BV.05**

# Components

standard



pumped



# Important information

## Safety information

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

**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 water circuit should be installed so that other taps or appliances operated elsewhere within the premises do not significantly affect the flow.

The shower must not be used with a hot water supply temperature of over 65°C.

The Digital processor must not be installed in situations where the ambient temperature is likely to exceed 40°C.

The control must not be installed in situations where the ambient temperature is likely to fall below 5°C or rise above 70°C.

We do not recommend the use of Quartz Digital in steam therapy facilities.

This appliance must be earthed.

Cables which are chased into the wall must be protected by a suitable conduit or sheathing.

Surface mounted cables must also be protected by a suitable approved conduit.

The power lead must only be replaced by the manufacturer or his accredited agent.

The user control is supplied from a safety low voltage source.

This product is suitable for domestic use only.

### SPECIAL NOTES FOR INSTALLATION OF DIGITAL PUMPED PROCESSOR

The Quartz Digital pumped shower system is designed to operate up to a maximum static pressure of 1 bar (14.5psi).

Under no circumstances must the pumped processor be connected directly to the water main or in line with another booster pump.

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

### SPECIAL NOTES FOR INSTALLATION OF DIGITAL STANDARD PROCESSOR

Pressures: The Quartz Digital shower system is designed to operate up to a maximum static pressure of 7 bar (100psi). Where pressures are likely to exceed 7 bar (100psi), a pressure reducing valve must be fitted to the incoming mains supply. A setting of 4 bar (60psi) is recommended. It should be noted that daytime pressures approaching 6 bar (80psi) can rise above the stated maximum overnight.

### COMBINATION BOILER SYSTEMS

The appliance must have a minimum domestic hot water rating of 80,000 BTU (23.4kW) and be of the type fitted with a fully modulating gas valve.

**THE FLOW SWITCH ON THE COMBI BOILER NEEDS TO FLOW A MINIMUM OF 12 LITRES PER MINUTE AT 55°C.**

If in any doubt please contact the appliance manufacturer before installation commences.

**PLEASE NOTE: INLET TEMPERATURE CHANGE MAY CAUSE THE DIGITAL CONTROLLER TO FLASH. THIS IS NOT NECESSARILY CHANGING THE OUTLET TEMPERATURE.**

# Important information

## Connections

This product incorporates 'push-fit' type connections. 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 of the fitting.

**THESE FITTINGS ARE NOT SUITABLE FOR STAINLESS STEEL TUBE.**

## 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.

## After installation

Run through the Quartz Digital operation with the purchaser and hand them this guide. Complete and post the Quartz Digital guarantee card or register online at [www.aqualisa.co.uk](http://www.aqualisa.co.uk)

# Step-by-step instructions



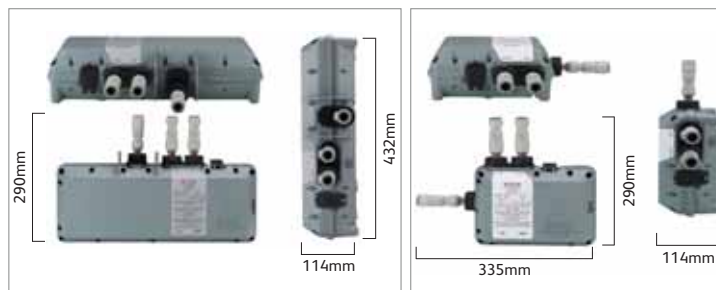
In addition to the guide below it is essential that the written instructions overleaf are read and understood and that you have all the necessary components (shown overleaf) before commencing installation. Failure to install the product in accordance with these instructions may adversely affect the warranty terms and conditions. Do not undertake any part of this installation unless you are competent to do so. Prior to starting, ensure that you are familiar with the necessary plumbing regulations required to install the product correctly and safely.



The Quartz Digital is supplied with universal fittings.

1

The Quartz Digital processor must be fixed in one of the three orientations shown.



2

Isolation valves are supplied with the Digital processor and must be fitted on both inlets and the blended water outlet. For optimum performance, all inlet pipe work should be in 15mm copper pipe. If plastic pipe is used, there will be a restriction in flow rate and performance. All pipe work should be supported.



For externally pumped gravity fed installations, 22mm pipe work should be run as close to the processor as possible before reducing down to 15mm.

3

Choose the position for your Digital processor as close to the shower control as possible. The processor may be sited in the roof space above the proposed shower site, in the airing cupboard or behind a screwed bath panel if more convenient. If siting in the roof space, ensure that freezing cannot occur and that no insulation material is placed under or over the processor. Please refer to the system layout diagrams opposite.

!

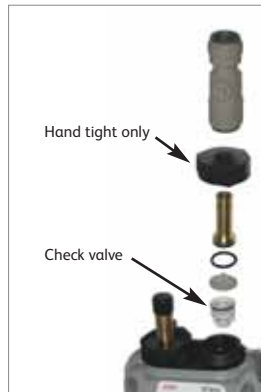
The optimum position for the Digital processor is in the roof space above the shower site to take full advantage of the ease and speed of installation.

For gravity fed and separately pumped systems, the Digital processor **MUST BE SITED NO HIGHER** than the base level of the cold water storage cistern.

The distance between the processor and the shower control must be within range of the data cable supplied (10m).

The processor must be sited in a position so that access can be gained for testing and service purposes.

Check valves are supplied with the non-pumped processor and should be fitted when used on combination boiler systems.



4

Place the Digital processor on a solid mounting surface, mark then drill and prepare the fixings before securing the processor to the mounting surface using the screws supplied in screw pack no.1.



5

Flush through both the 15mm copper hot and cold supply pipes.

!

The maximum hot water inlet temperature should be no more than 65°C.

6

Attach the supply pipes to the Digital processor, ensuring that the cold and hot feeds are fitted into the appropriately marked inlets.

!

**DO NOT SOLDER NEAR TO PLASTIC COMPONENTS.**

7

Place the paper template on the wall in the desired location for the shower control and mark the two fixing points and the pipe and data cable entry points.



8

Remove the template and drill a Ø16mm hole at the appropriate positions for the data cable and pipe entry points.

!

The data cable should be run in conduit to allow for servicing and upgrading.

Drill and prepare the two wall fixings for the controller as supplied in screw pack no. 3.

9

Run a 15mm pipe from the blended water outlet on the Digital processor (4m max.) through the wall to the outlet pipe site as indicated on the fixing template.

10

Secure the 15mm pipe by sliding on the gripper ring flush with the finished wall surface before trimming the pipe, using a rotary type cutter, to a finished length of 18-25mm. Feed the data cable through the appropriate entry point to emerge with a length of 170mm.



11

Remove the control fascia by undoing the small fixing screw to expose the two wall fixing points.



12

Run a thin bead of silicone sealant in the mastic groove on the back of the body jet unit.



**13**

Ensure that the projecting pipe end is clean and lightly lubricate using a suitable (silicone based) lubricant or petroleum jelly. Pull the data cable through the unit before offering it onto the pipe work and pushing the unit fully home.

**14**

Secure the unit to the wall using the screws supplied in screw pack no. 3.

**15**

Offer the rail assembly into position, pushing the data cable up into the rail to allow the rail to engage fully into the body jet assembly. Mark the two fixing points on the wall for the lower fixing bracket. Fit the rail end clip into the rail end assembly and place on the top end of the rail. Mark the position for the wall fixing.

**16**

Remove the rail assembly and prepare the wall fixings using the fixings supplied in screw pack no. 2.

**17**

Reposition the rail assembly as in step 15 and fix using the screws supplied in screw pack no. 2. Fit the rail end cover.

**18**

Remove the Quartz Digital control from the back plate by unscrewing the fixing screw located at the bottom, then sliding the control upwards to remove it.

**19**

Remove the four fixing screws and lift the back plate clear of the housing.



20

Remove the black fixing block from the bottom of the rail and carefully retrieve the data cable.



21

Pass the cable through the fixing block and refit it to the assembly.



22

Pass the cable through back plate and secure the plate to the housing using the four fixing screws.



23

Plug the data cable into the rear of the controller and slide onto the mounting plate. Secure the controller to the back plate with the fixing screw located at the base of the controller.



24

Refit the fascia plate and secure using the fixing screw. Place the diverter knob into position, ensuring correct orientation, push fully home.



25

Connect the low voltage data cable to the Digital processor via the socket located just under black protective flap. Feed the cable out of the processor by threading it under the small red lip to the left of the socket. Screw the flap back down to provide a watertight seal taking care not to overtighten, ensuring any damage to the data cable is avoided.



26

Connect the processor power lead to a double pole 3 amp fuse switched spur incorporated in the fixed wiring circuit, in accordance with current wiring rules. Ensure that this is located in an accessible, dry location and not in the bathroom.



**THIS APPLIANCE MUST BE EARTHED**

The data cable and power lead can be routed in the grooves provided under the processor. The cable and lead should also be clipped in place with 'P' clips or similar to avoid accidents.

27

Attach the shower hose only and flush through the system for 15 seconds to clear any debris before fitting the shower head. Thread the conical end of the shower hose through the hose restraint before attaching the head and fitting it in the handset holder.



Please ensure that both hose washers (supplied in screw pack no. 2) are fitted at each end of the hose.

28

When the shower head is connected, run the shower at maximum temperature (factory pre-set). If the temperature needs regulating, adjust the setting using a small screw driver under the black protective flap on the digital processor in dry surroundings. Take care not to over turn the adjuster.



Site conditions can affect temperature settings, installer to adjust as required.

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

# User Guide



1. Turn the temperature dial to the required setting.
2. Press the 'start' button on the control.
3. The LED display will flash until the selected temperature has been reached.
4. When the LED display is constant, step into your shower and enjoy!
5. The temperature may be adjusted once in the shower.



**Pumped shower only:** Press the 'boost' button on the control to increase the flow and pressure of the shower when required.



## Body jet assembly control

Rotate the control knob to select shower head only, body jets only or simultaneous use of all outlets by selecting the relevant symbols.

The angle of the body jet spray can be adjusted by gently pushing the outer edge of the body jet spray plate to the desired angle.

Please remember body jets are capable of passing high volumes of water in a very short time.



## Adjustable head user guide

1. To select the desired spray pattern rotate the shower spray cassette clockwise or anti-clockwise.



2. To select the preferred height for the shower head, depress the handset holder levers fully to enable the slider to be moved up or down the rail.



3. Angular adjustment is made by carefully but firmly pulling forwards or pushing back the shower head against the knuckle ratchet in the holder.



# User Guide

## Cleaning

Your Quartz Digital shower system should be cleaned using only a soft cloth and washing-up liquid.

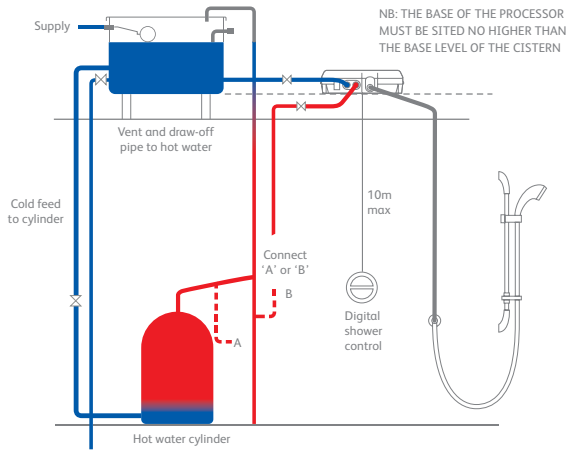
### DO NOT USE ABRASIVE CLEANERS

To reduce the need for chemical descaling in hard water areas, your shower head incorporates a 'clear flow' system whereby any scale build up can be broken down by gently rubbing the flexible tips of the jets during use.

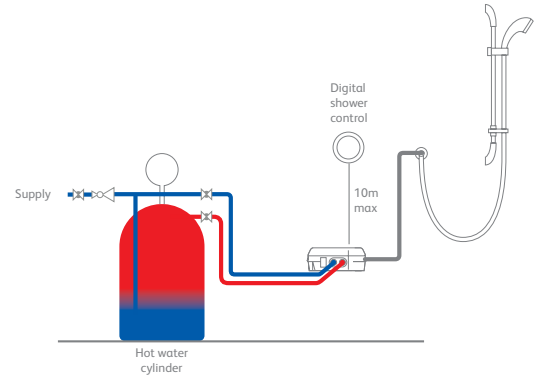
Should chemical descaling of the head ever become necessary, simply unscrew the spray cassette and soak it in a mild proprietary descaler.

# Typical installations

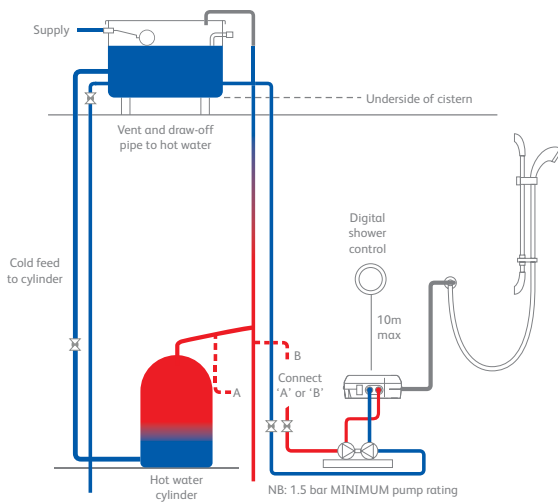
## Typical gravity system installation



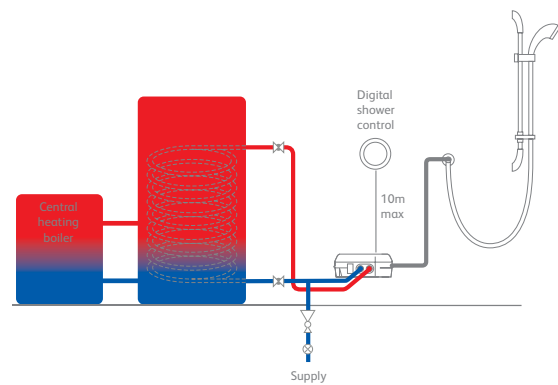
## Typical Thermal storage unit system installation



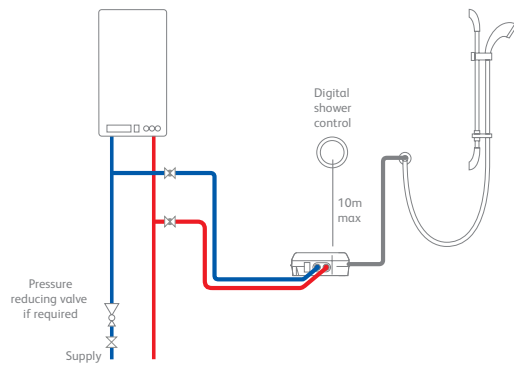
## Typical pumped system installation



## Typical UHW system installation



## Typical combination boiler installation





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