

AQUALISA

# Axis<sup>®</sup>

Digital

Concealed standard and pumped



**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

## Axis Digital concealed standard



With Axis adjustable height head

**AX8110**



With Axis wall mounted fixed head

**AX8120**



With Axis ceiling mounted fixed head

**AX8130**

## Axis Digital concealed pumped



With Axis adjustable height head

**AX8115**



With Axis wall mounted fixed head

**AX8125**



With Axis ceiling mounted fixed head

**AX8135**

# Components

## Axis Digital concealed standard



With Axis adjustable height head  
**AX8110**



With Axis wall mounted fixed head  
**AX8120**



With Axis ceiling mounted fixed head  
**AX8130**

## Axis Digital concealed pumped



With Axis adjustable height head  
**AX8115**



With Axis wall mounted fixed head  
**AX8125**



With Axis ceiling mounted fixed head  
**AX8135**

Literature not shown

# Important information

## Safety information

This product must be installed by a competent person in accordance with all relevant Water and Wiring Supply Regulations. Electrical supply and bonding of the bathroom must comply with the current IEE regulations, and your attention is drawn to the requirements concerning protective earth bonding.

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

This 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 Axis Digital in steam therapy facilities.

This appliance must be earthed.

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.

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

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

This product is suitable for household use only.

### SPECIAL NOTES FOR INSTALLATION OF DIGITAL PUMPED PROCESSOR

- 1) The Axis Digital pumped shower system is designed to operate up to a maximum static pressure of 1 bar (14.5 psi).
- 2) Under no circumstances must the pumped processor be connected directly to the water main or in line with another booster pump.
- 3) 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 Axis 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 3 litres per minute. 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.**

## 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 into 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 pipework thoroughly flushed out in accordance with Water Supply Regulations prior to connection of the product.

## After installation

Run through the system operation with the purchaser and hand them this guide. Complete and post the Axis guarantee card.

# Step-by-step instructions



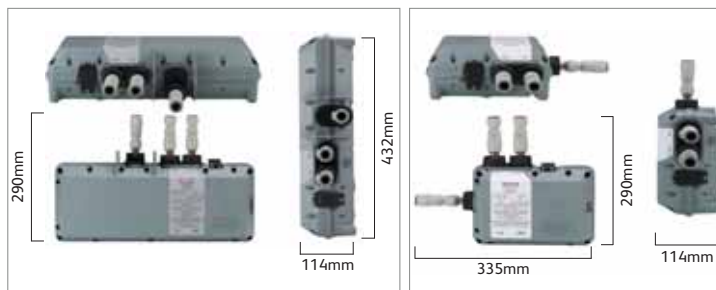
In addition to the guide below it is essential that the written instructions opposite are read and understood and that you have all the necessary components (shown above) before commencing installation. Failure to install the product in accordance with these instructions may adversely affect the warranty 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 Axis Digital shower system is supplied with masonry fixings intended for use with a wall of solid construction. If the unit is to be installed on a wall of a different construction then please use alternative fixings as required.

1

The Axis 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 mixed water outlet. For optimum performance, all inlet pipe work should be 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.

3

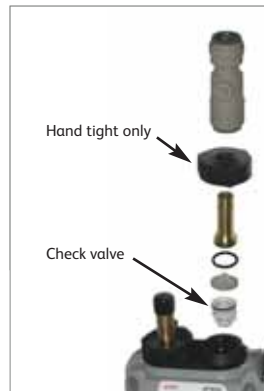
Choose the position for your Digital processor as close to the shower control as possible. The processor may be sited in the roof space above the proposed shower site, in the airing cupboard or behind a screwed bath panel if more convenient. If siting in the roof space, ensure that freezing cannot occur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

!

The distance between the processor and shower control must be within range of the data cable supplied (7m). A 10m cable is available on request.

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 suitable fixings before securing the processor to the mounting surface using the screws supplied in screw pack no. 1 (if suitable).



5

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

!

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

6

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



!

DO NOT SOLDER NEAR TO PLASTIC COMPONENTS

7

Run a pipe from the mixed water outlet on the Digital processor through the wall or ceiling to the proposed siting for the shower hose outlet, fixed head or diverter depending on the system purchased.

8

Place the mounting bracket on the wall in the desired location for the control and mark the position of the three fixing holes and the data cable entry point. Remove the bracket and drill a  $\varnothing 16\text{mm}$  hole at the appropriate position for the data cable.



!

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

9

Drill and prepare suitable wall fixings for the two control mounting screws. Secure the mounting bracket using the screws supplied in screw pack no. 2 (if suitable).

10

Feed the cable from the back of the control and connect it to the cable on the processor. Tuck the remainder of the cable into the control before securing it onto the mounting bracket.



11

To finally secure the control, tighten the captive screw at the base of the control using a small Posidrive screwdriver.



12

Connect the low voltage data cable to the Digital processor via the socket located under the black protective flap. Feed the cable out of the processor by threading it under the small red lip to the left of the socket, then screw the flap back down to provide a watertight seal.



!

Please refer to the reverse of this guide for installation of your shower head.

13

Connect the power lead to a 3 amp fused switched spur. Ensure that this is in an accessible location and not in the bathroom. The fused spur must provide a contact separation of at least 3mm from the supply in all poles (Live and Neutral).



**THIS APPLIANCE MUST BE EARTHED**

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

14

Run the shower at maximum temperature (factory pre-set). If the temperature needs regulating, then adjust the setting using a small screwdriver 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**



## Adjustable height head



The adjustable height head is supplied with masonry fixings intended for use with a wall of solid construction only. If the unit is to be installed on a wall of different construction then please use alternative fixings as required.

1

Prepare pipe work from the shower valve/processor to the required position for the hose outlet using  $\varnothing 15\text{mm}$  copper pipe. Slide the 15mm gripper ring down the projecting pipe up to the wall face.



2

Trim the projecting pipe to a length of 15-22mm measured from the wall face using a rotary type cutter. If a hacksaw is used the pipe end must be carefully de-burred and chamfered.

3

Remove the cover plate from the main assembly by removing the screw at the base of the plate.



4

Clean and lubricate the pipe using a suitable (silicone based) lubricant.

5

Carefully slide the wall fixing plate onto the projecting pipe, turn to the required position and mark the screw holes on the wall face. Remove the wall fixing plate and drill and prepare suitable wall fixings.

6

Carefully refit the fixing plate and secure it to the wall using the screws provided if suitable.



7

Refit the cover plate.

8

Mount the template to the wall in the required position ensuring vertical alignment using a spirit level to facilitate if necessary. Carefully mark the two fixing holes. Check the intended position for the rail assembly before removing the template, then drill and prepare suitable wall fixings for the two mounting screws.

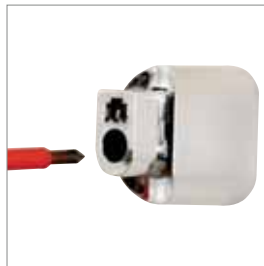


!

The maximum distance from the top fixing to the ceiling is detailed on the template. If there is coving or an alternative obstruction then this distance must still be accounted for.

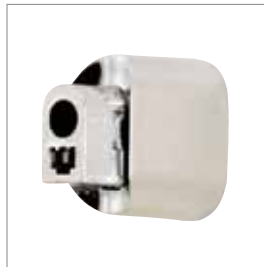
9

Fix the top wall bracket to the appropriate position using the screws provided if suitable ensuring that the arrow on the bracket is facing upwards.



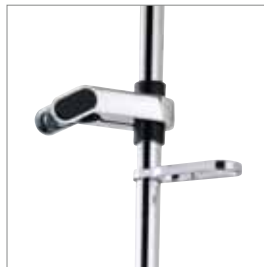
10

Fix the bottom wall bracket to the appropriate position using the screws provided if suitable ensuring that the arrow on the bracket is facing downwards.



11

Before mounting the rail to the wall ensure that both the hose restraint and the handset holder are positioned. Offer the assembly up to both the wall brackets before pushing it home.



12

Insert the fixing bolt into the rail end cap and secure it to top bracket using a 4mm Allen key. Repeat for the bottom bracket.



13

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



Please ensure that both hose washers are fitted at either end of the hose.

## Ceiling mounted



The ceiling mounted fixed head is supplied with screws for fixing the product to a noggin.

**A NOGGIN MUST BE USED AS PART OF THIS INSTALLATION**

1

Run a 15mm outlet pipe from the valve/processor to the preferred position for the fixed head.

2

Locate the position for the fixed head in the bathroom and firstly drill a pilot hole to mark the position before checking that there is suitable space behind the ceiling for the fixing assembly.



The minimum height required behind the ceiling is 50mm and the space must allow for an 80mm wide, 50mm deep noggin to be used to support the assembly.

3

Drill a hole (minimum  $\varnothing 28\text{mm}$ , maximum  $\varnothing 40\text{mm}$ ) through the ceiling and the noggin.

4

Remove the cover plate and fixing bracket carefully from the fixed head arm.

5

Set the fixing bracket into position and mark the fixing points. Remove the bracket and drill and prepare suitable fixings. Refit the fixing bracket and secure it through the ceiling and into the noggin using the screws provided if suitable.



6

Refit the cover plate onto the fixed head arm and feed it through the fixing bracket to the correct depth. Tighten the nut using a 32mm spanner if necessary to facilitate.



7

Cut off the excess pipe allowing for a suitable working length to allow for the required connection. If a push fit connector is to be used then the pipe must be abraded to remove all chrome plating.

8

Connect the pipe work from the valve to the pipe end for the fixed head using a suitable coupling. Fully tighten the nut on the ceiling mounting bracket using a 32mm spanner if necessary to facilitate.

!

Run the shower for a few seconds to clear any debris and to check for any leaks.

9

Carefully slide the cover plate back over the fixed head arm and into position against the ceiling.



10

Secure the shower head tightly to the fixed head arm using a 28mm spanner to facilitate tightening. Check the installation for leaks then fit the badge to the front of the spray plate.



## Ceiling flush mounted



The ceiling flush mounted fixed head is supplied with screws for fixing the product to a noggin.

**A NOGGIN MUST BE USED AS PART OF THIS INSTALLATION**

Before starting installation of the flush mounted fixed head it is imperative that the installation notes below are read and understood and that checks are made to ensure that there is sufficient space behind the ceiling as required.

1

Run a 15mm outlet pipe from the shower valve/processor to the preferred position for the fixed head. Ensure that the outlet is clear from debris.

2

Carefully remove the black bezel from the shower head, by folding back the front edge before unclipping it from the assembly.



3

Locate the position for the fixed head in the bathroom and firstly drill a pilot hole to mark the position before checking that there is suitable space behind the ceiling for the assembly.



The fixed head is mounted to a noggin that must be supported across two beams.

4

Once the position for the fixed head has been finalised, use a set of compasses or the template provided to mark a  $\varnothing 123-127$ mm hole. Using the same center point drill a hole (minimum 28mm, maximum 40mm) through the ceiling and the noggin. Cut out the  $\varnothing 123-127$ mm hole.

5

Remove the cover plate and fixing bracket carefully from the fixed head arm.

6

Set the fixing bracket into position (above the noggin) and mark the fixing points. Remove the bracket and drill and prepare suitable fixings. Refit the fixing bracket and secure it to the noggin using the screws provided if suitable.



7

From above feed the fixed head arm through the fixing bracket allowing sufficient pipe to fix the shower head. Tighten the nut using a 32mm spanner if necessary to facilitate tightening.



8

Secure the shower head tightly to the fixed head arm using a 28mm spanner to tighten if required.



9

Loosen the ceiling fixing bracket and pull the pipe work through until the shower head fits flush against the ceiling. Re-tighten the fixing bracket nut using a 32mm spanner to facilitate.



10

Cut off the excess pipe allowing for a suitable working length to allow for the required connection. If a push fit connector is to be used then the pipe must be abraded to remove all chrome plating.

!

Soldered connections are not recommended as this could damage the shower head.

11

Connect the pipe work from the valve to the pipe work for the fixed head. Check that the shower head is still in the correct position before fully tightening the nut on the ceiling mounting bracket using a 32mm spanner.

12

Check the installation for leaks then fit the badge to the front of the spray plate.

## Wall mounted

!

The wall mounted fixed head is supplied with masonry fixings intended for use with a wall of solid construction only. If the unit is to be installed on a wall of different construction then please use alternative fixings as required.

The maximum panel thickness for installation of the fixed shower head is 35mm, this includes a maximum tile thickness of 15mm.

1

Run a 15mm outlet pipe from the shower valve/processor to the preferred position for the fixed head arm, the pipe must terminate with a suitable 1/2" BSP female fitting.

!

If the spigot cannot to be secured to the wall then the pipe must be secured using a clip or another form of fixing.

2

Secure the spigot into the 1/2" female fitting allowing it to project to a length of 31-46mm measured from the finished surface using the washer and back nut as required. A 12mm Allen key can be inserted into the front of the spigot to facilitate tightening.



!

If the spigot is to be secured before tiling then the depth of the tiles must be taken into consideration.

3

Insert the red 3/8" BSP plug into the front of the spigot and tighten. Turn on the shower valve to pressurise the system and thoroughly check the outlet assembly for any leaks.



4

Turn off the valve and leave the plug in place to prevent ingress of debris during the making good process. No parts of the shower system should be cemented into the wall.

5

Slide the cover plate carefully down the fixed head arm to give clear access to the fixing plate.

6

Carefully remove the plug from the fixing spigot, remembering that the system contains water that may be under pressure.

7

Ensuring that the spigot 'O' ring is clean and slightly lubricated (using a silicone based lubricant or petroleum jelly), slide the fixed head arm over the mounting spigot until it meets the wall surface.



8

Set the arm into position and mark the fixing points. Remove the arm and drill and prepare suitable wall fixings. Refit the arm and secure it to the wall using the screws provided if suitable.





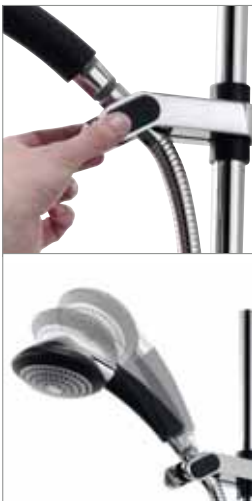
# User Guide



## Control

1. Turn the temperature dial to the required setting.
2. Press the 'start' button on the control.
3. The red and blue 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 strength of the power shower option when desired.



## Adjustable height head

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

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



## Fixed head user guide

The angle of the fixed shower head can be adjusted (except for the flush mounted ceiling version).

The shower head is mounted on a multi directional ball joint to allow for angular adjustment in any direction by gently holding the bezel and moving the shower head to the desired angle.

## Cleaning

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

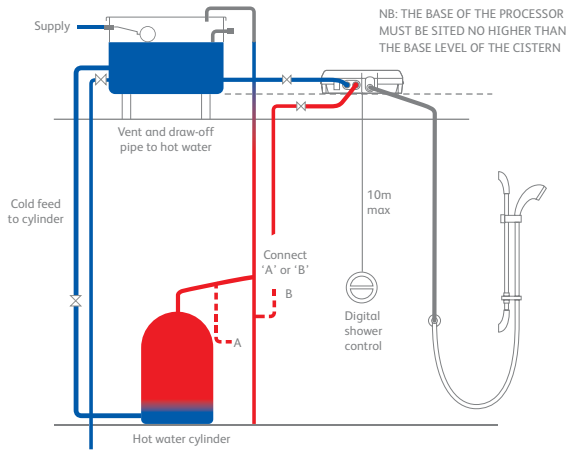
### DO NOT USE ABRASIVE CLEANERS

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.

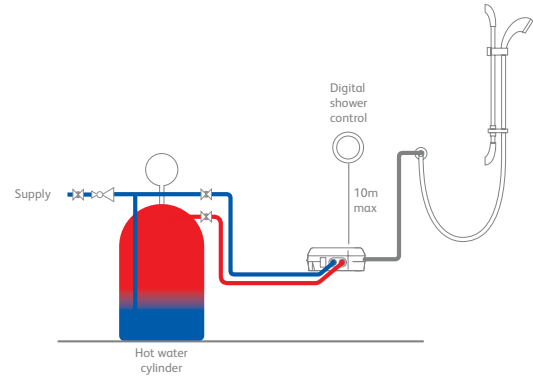
Should chemical descaling of the head ever become necessary, simply unscrew the spray cassette and soak it in a mild proprietary descaler.

# Typical installations

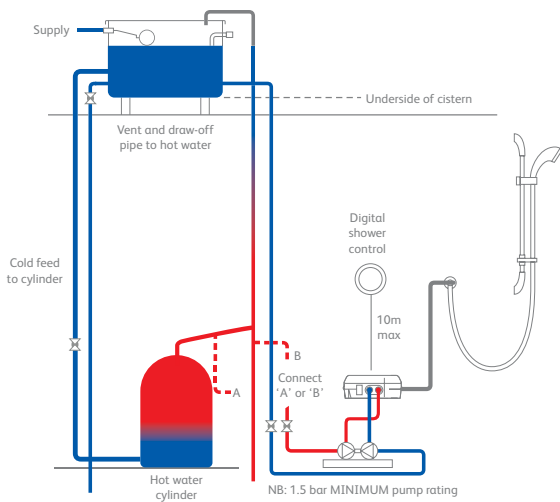
Typical gravity system installation



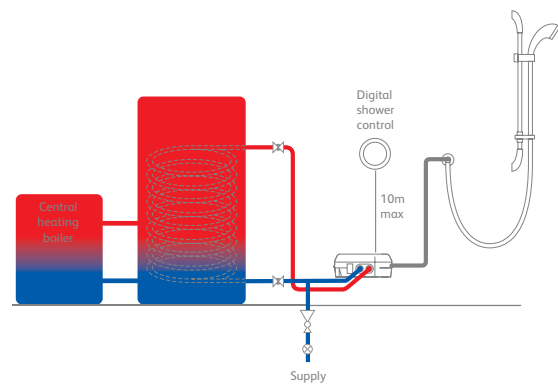
Typical Thermal storage unit system installation



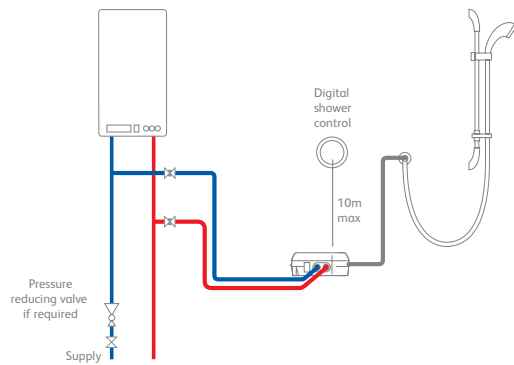
Typical pumped system installation



Typical UHW system installation



Typical combination boiler installation





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The company reserves the right to alter, change or modify the product specifications without prior warning

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