

AQUALISA



SMART INSTALLATION GUIDE

Please note: For divert products, cable connection instructions vary depending on the model. Please refer to the section, "Wiring diagram - Divert models only".

IMPORTANT INFORMATION

Safety information
This appliance can be used by children aged from 3 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance.
Cleaning and user maintenance shall not be made by children without supervision.
This product must be installed by a competent person in accordance with all relevant current local and national Water Supply Regulations.

ALL PRODUCTS REQUIRING AN ELECTRICAL CONNECTION MUST BE INSTALLED BY A QUALIFIED PERSON FOLLOWING THE LATEST REVISION OF THE ELECTRICAL WIRING REGULATIONS, BOTH NATIONAL AND LOCAL AND CERTIFIED TO CURRENT BUILDING REGULATIONS.

This system should be installed so that other taps or appliances operated elsewhere within the premises do not significantly affect the flow. The Aqualisa SmartValve™ must not be

used with a hot water supply temperature of over 65°C. If the maximum hot water temperature is likely to rise above 65°C then a Thermostatic Blending Valve must be used. The Aqualisa SmartValve™ is supplied factory pre-set at maximum temperature of 45°C. The maximum temperature is fully adjustable to suit site conditions. If adjusted, we recommend the outlet temperature is set to a MAXIMUM of 46°C.

The Aqualisa SmartValve™ must be installed in an accessible location for servicing and maintenance. The Aqualisa SmartValve™ must not be installed in situations where either the ambient temperature is likely to exceed 40°C or where freezing may occur. The controller must not be installed in situations where the ambient temperature is likely to fall below 5°C or rise above 40°C.

We do not recommend the use of a controller in steam therapy facilities. This appliance must be earthed. Cables must be protected by a suitably sized conduit or trunking to avoid risk of damage and to allow removal for service and maintenance purposes. Failure to install this way may invalidate the warranty. Ensure that the conduit is run to avoid the controller fixing holes.

Surface mounted cables must also be protected by a suitable approved conduit, even in a loft, where there may be a risk of damage from vermin. The power lead must only be replaced by the manufacturer or their accredited agent. The controller is supplied from a safety low voltage source. This product is suitable for domestic use only.

Installation of the pumped Aqualisa SmartValve™ (for gravity stored systems)

The pumped Aqualisa SmartValve™ shower system is designed to operate up to a maximum static pressure of 100kPa (1 bar)(10 metres head)(14.5psi). Under no circumstances must the pumped Aqualisa SmartValve™ 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 anticipated demand.

Installation of the standard (unpumped) Aqualisa SmartValve™ (for balanced high pressure and unvented

systems, combination boiler systems and separately pumped gravity systems)
Pressures: The standard (unpumped) Aqualisa SmartValve™ is designed to operate up to a maximum static pressure of 700kPa ((7 bar)(100psi)). Where pressures are likely to exceed 700kPa ((7 bar)(100psi)), a pressure reducing valve must be fitted to the incoming mains supply. A setting of 400kPa ((4 bar)(60psi)) is recommended. It should be noted that daytime pressures approaching 600kPa ((6 bar)(80psi)) can rise above the stated maximum overnight.

Special notes for separately pumped gravity systems and universal/negative head pumps (for divert systems)
We recommend a MINIMUM pump rating of 1.5 bar. For optimum performance a 2.5 bar pump should be used for all separately pumped installations. A twin ended pump is required for use with single outlet products.
A universal/negative head type twin ended pump (works on both positive and negative head conditions) MUST be used with divert products.
The minimum actual capacity of the cold water storage cistern

Special notes for combination boiler systems
The appliance must have a minimum domestic hot water rating of 24kW and be of the type fitted with a fully modulating gas valve. If in any doubt, please contact the appliance manufacturer before installation commences.

DUE TO PERFORMANCE CHARACTERISTICS OF COMBINATION BOILERS, SEASONAL INLET TEMPERATURE CHANGE WILL AFFECT THE AQUALISA SMARTVALVE™ OUTLET FLOW RATE RESULTING IN VARYING SHOWER FLOW

RATE AND FLOW CONTROL RANGE. INLET TEMPERATURE CHANGE MAY ALSO CAUSE THE TEMPERATURE DISPLAY TO FLASH; THIS IS NOT NECESSARILY CHANGING THE OUTLET TEMPERATURE. DUE TO THE PERFORMANCE CHARACTERISTICS OF COMBINATION BOILERS, OPERATION OF THE BOOST BUTTON OR INCREASING THE FLOW RATE SETTING ON THE SHOWER CONTROLLER MAY NOT OFFER SIGNIFICANT CHANGE IN OUTPUT FLOW RATE.

THIS PRODUCT IS NOT SUITABLE FOR USE WITH A SINGLE ENDED PUMP.

Connections
This product incorporates 15mm 'push-fit' type connections. Tube should be cut using a rotary type cutter and lubricated using a silicone grease, petroleum jelly, or similar, prior to insertion into the fitting. 15mm pipework must be used to connect the product.
If plastic pipe is used, the tube insert must not increase the tube diameter or extend the cut-off length by more than 2mm.

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

Shower Heads
The range of shower heads has been designed for use with Smart systems. Installation of any shower heads other than these may result in poor shower performance. If at any stage during installation you have any questions then please contact the Aqualisa Customer Service Department on 01959 560010 for advice.

Flushing
Some modern fluxes can be very 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 local and

THESE FITTINGS ARE NOT SUITABLE FOR STAINLESS STEEL TUBE. COMPRESSION FITTINGS MUST NOT BE USED.

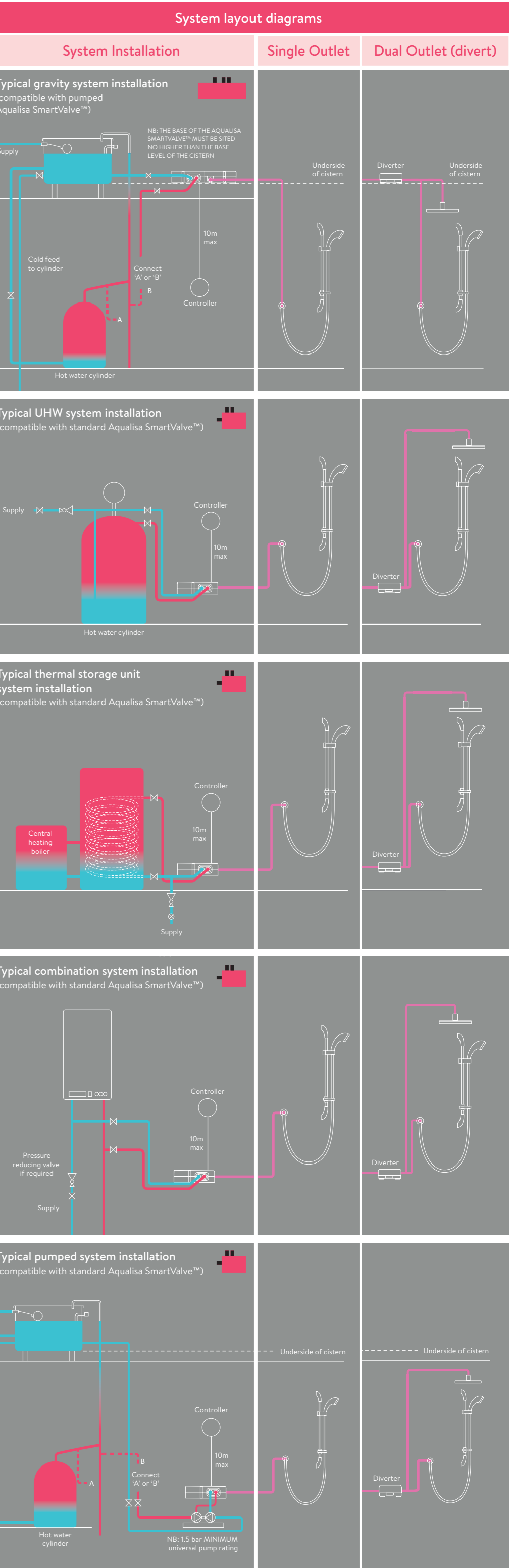
Pipe sizing
CHECK PIPE SIZE REQUIREMENTS FOR CONNECTIONS TO OUTLETS AND ACCESSORIES.
Long pipe runs, on both the inlet and outlet, will reduce the flow rate at the shower head, 22mm pipe work should be used on inlets and reduced down to 15mm as close to the valve as possible to reduce pressure loss and help maintain flow rate. If using 15mm pipe, copper pipe is preferred. To optimise performance minimise the number of elbows used. If long pipe runs are unavoidable on the outlet, and a diverter is used, use copper pipe rather than plastic. If plastic pipe is used, minimise the number of elbows as the pipe inserts are very restrictive.

Guarantee
Aqualisa products are supplied complete with a 1 year parts and labour guarantee that can be upgraded by registering the product with Aqualisa. See www.aqualisa.co.uk/guarantee for details.

Declaration of Conformity
Aqualisa Products Limited declares that the Aqualisa SmartValve™ and supplied controller, in conjunction with pairing remotes and diverter, complies with the essential requirements and other relevant provisions of the Low Voltage Directive (2014/35/EU), the EMC Directive (2014/30/EU) and the RED Directive (2014/53/EU).



Applicable for some models
After installation
Familiarise the end user with the operation of this product and hand them all literature. Complete and post the guarantee card or register online at www.aqualisa.co.uk



Scan for Installation Videos

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Part No: 704711 Issue 02 Jan 21

SMART INSTALLATION

This product must be installed by a competent person in accordance with the relevant Water Supply Regulations.
Prior to installation, ensure all literature supplied with this product is read and understood. We have taken great care to ensure that this product reaches you in perfect condition, however should any parts be damaged or missing please contact your point of purchase. If you require assistance please contact the Aqualisa helpline. The shower system is supplied with universal fixings intended to secure it to a suitable wall.
In addition to the guide below, it is essential that the important information (above) is read and understood and that you have all the necessary components before commencing installation. Refer to the separate Components List for reference.

Digital TV Interference

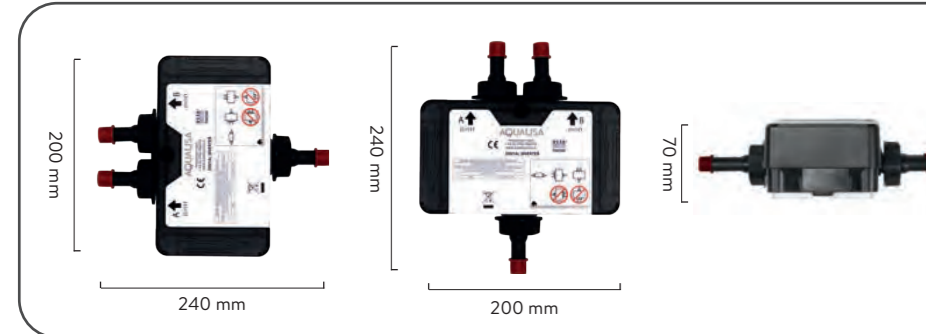
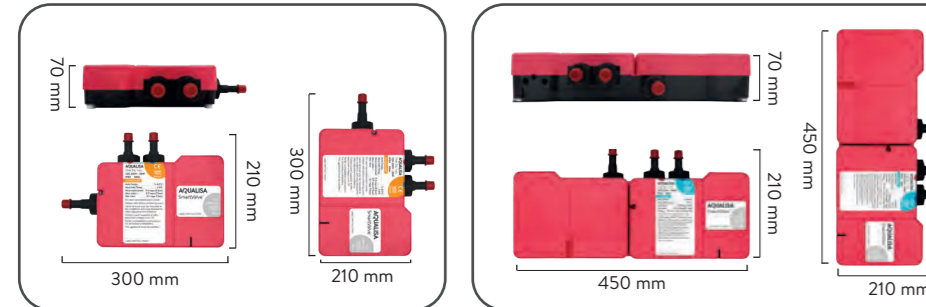
Although the Aqualisa SmartValve™ complies with all relevant EMC standards, if incorrectly sited, it may interfere with digital TV reception. Please follow the recommendations below to minimise this effect.
See recommended layouts below.
Images of Aqualisa SmartValve™ for illustration only, refer to instruction 1 for orientation.

- Route cables separately, and as far apart from each other as possible.
- Aerial to point away from the Aqualisa SmartValve™.
- Ensure the distance between the Aqualisa SmartValve™ and the aerial is as large as possible.

Installation videos are available on our website www.aqualisa.co.uk/installation-videos or alternatively, scan the QR code on the reverse of this guide.

AQUALISA SMARTVALVE™ & DIVERTER

To ensure safe operation and installation of this product, the Aqualisa SmartValve™ and diverter (where supplied) MUST be installed in one of the orientations shown.



Isolation valves are supplied with the Aqualisa SmartValve™ and diverter (where supplied) and must be fitted on all inlet and outlet connections. All connections require 15mm pipe, and all pipe work should be supported.

For gravity fed installations, 22mm pipe work should be run as close to the Aqualisa SmartValve™ as possible before reducing down to 15mm.

To ensure optimum performance we recommend using copper pipe with a minimum number of elbows. To minimise post shower dripping outlet pipework should have a gentle gradient rise away from the Aqualisa SmartValve™ or the diverter (where supplied). Special notes for plastic pipework, refer to the Important Information (Connections) section.

The inlet supply centres are 48mm.
Please note arrow on isolation valve to indicate direction of flow.
DO NOT use compression fittings on the inlet and outlet spigots as this will invalidate the warranty if fitted.

3 Choose the position for your Aqualisa SmartValve™ and diverter (where supplied) as close to the controller as possible. These 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. For information regarding protecting the Aqualisa SmartValve™ and diverter (where supplied) from cold/frost, contact Aqualisa Customer Services or refer to the Aqualisa website. Insulation material must not be placed under or on top of the Aqualisa SmartValve™ and diverter (where supplied), the location should be where freezing cannot occur. Please refer to the system layout diagrams.



The Aqualisa SmartValve™ and diverter (where supplied) MUST be sited in a position that is safely accessible for servicing and commissioning purposes. When fitted in a loft space, the route to, and the area around the Aqualisa SmartValve™, and diverter (where fitted) must be positioned to ensure a safe working environment.
The optimum position for the Aqualisa SmartValve™ and diverter (where supplied) is in the roof space above the controller site to take full advantage of the ease and speed of installation. The distance between the Aqualisa SmartValve™ and the controller must be within the range of the 10m data cable supplied. For dual-outlet models, the diverter must be within the range of the 2m low voltage data cable connecting it to the Aqualisa SmartValve™.

4 Place the Aqualisa SmartValve™ and diverter (where supplied) on a solid mounting surface, and place the fixing feet into suitable positions. Mark, then drill and prepare suitable fixings securing to the mounting surface using the screws provided (if suitable).



5 Flush through both hot and cold supply pipes.

Refer to safety information section.
The maximum hot water inlet temperature must be no more than 65°C.

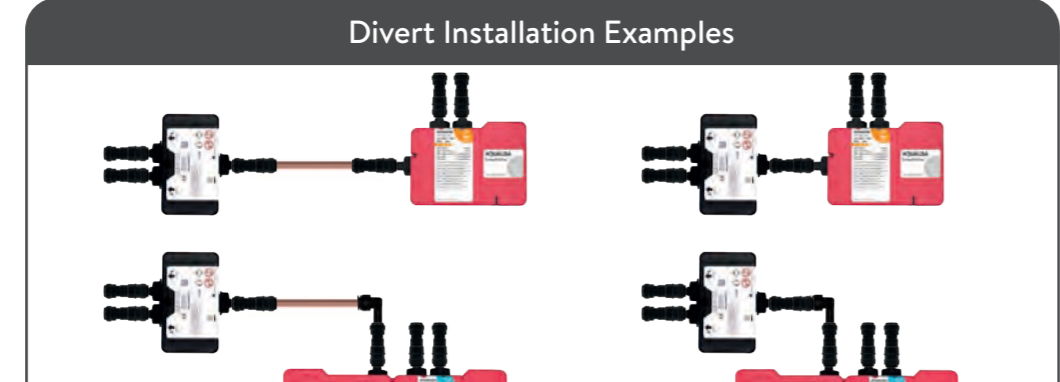
6 Attach the supply pipes to the Aqualisa SmartValve™, ensuring that the cold and hot feeds are fitted into the appropriately marked inlets.



Do not solder near to plastic components.

7 Run pipework from the mixed water outlet of the Aqualisa SmartValve™ to the proposed siting for the shower hose outlet, fixed head, bath filler or diverter depending on the system purchased.

For single outlet models, proceed to the relevant Controller section (Concealed or Exposed). If you are fitting a divert system continue below, then to the relevant Controller section.



See section 1 for orientations and overleaf (Wiring Diagram - Divert Models Only) for wiring schematics, as this differs depending on the model purchased. Images shown are aerial views and are for illustrative purposes only.

8 Ensure that the isolation valves are connected to the diverter spigots, with the arrows correctly aligned according to the direction of flow.
Run the pipes from the mixed water outlets of the diverter through to the proposed siting for the shower outlets, depending on the system chosen. For 2 buttoned shower divert controllers the outlets are assigned to the controller buttons as follows:

- Top button to outlet A of the diverter
- Bottom button to outlet B of the diverter

See Diverter Outlet and Diverter Controller Matrix on the reverse page for reference and information regarding setting up the primary outlet.

This may influence your primary outlet choice and plumbing configuration when using the Aqualisa app and/or smart speaker.

CONTROLLERS - CONCEALED SHOWER

Positioning the controller
Think about the location of the controller. Avoid grout lines where possible to ensure good surface contact with the silicone seal of the mounting plate. Choose a suitable height so all users can easily see and use the controller.
Some controllers are activated by a proximity sensor. Refer to the user guide for details and further information.

Ensure the data cable is the correct way round as both ends differ in type of connection used (transparent connector to the Aqualisa SmartValve™) or diverter (where supplied) N.B. Model specific.
Data cables must be protected by suitable sheathing or conduit in the event of servicing and maintenance. Failure to install this way will invalidate the warranty.
Care should be taken to ensure that fixings do not pierce the data cable conduit.

Supplied screws must be used as failure to do so will result in poor fitting of the controller, affecting its functions and may invalidate the warranty. If the supplied screws are not suitable for the mounting surface, use a screw of the same size and head design, the screws used must be non corrosive.
Power supply to the Aqualisa SmartValve™ must be switched off before connecting or removing the controller.

Make note of the type of your mounting plate (A, B, C or D) when proceeding with below instructions.

Fixing Specifications (refer to above)	Mounting plate type			
	A	B	C	D
Data cable entry hole size	Ø16mm	Ø16mm	Ø22mm diamond dust hole saw must be used	Ø16mm
Mounting plate screws and fixings	6mm drill bit for red fixings	5mm drill bit for yellow fixings	6mm drill bit for red fixings	6mm drill bit, for red fixings or 5mm drill bit for yellow fixings

1 Place the mounting plate on the wall in the desired location for the controller and mark the central position for the data cable entry point as represented by X in the above diagram. Remove the mounting plate and drill the data cable hole at the required size (see above table) at the appropriate position.

Diamond dust hole saws
When using the diamond dust hole saw to cut a hole for the mounting plate, follow the manufacturers guidelines. This type of hole saw is suitable for ceramic tiles, glass, marble, slate and porcelain tiles. If cutting into showering panels or marine board a suitable Ø22mm hole saw should be used. For some brands of diamond dust hole saw it is recommended to wet the saw before cutting. Make an initial cut into the tile at an angle to avoid slippage of the drill bit.

2 Referring to the above table, mark, drill and prepare the wall fixings for the mounting plate using the screw pack provided. The supplied screws MUST be used. If the supplied screws are not suitable for the mounting surface, use a screw of the same size and head design, the screws used must be non corrosive.
For mounting plate C: Utilise the slotted fixing holes to align and to avoid hidden cables.

If fitting mounting plate B or D, for ease of installation, after positioning the cable (as per point 3), screw to the finished wall surface then utilise the silicone injection points to gently feed silicone into the channels.

3 Ensure the data cable is correctly positioned as shown.

Feed the controller connection end of the data cable through the hole in the mounting plate, ensuring enough length to correctly connect into the back of the controller.

Run a bead of silicone sealant in the mastic groove on the back of the mounting plate. Ensuring the surface area is clear of debris press into position on the finished wall surface. N.B. For mounting plate C remove the paper liner on the foam gasket.

To prevent the data cable from receding into the hole, secure the cable into the narrow middle slot of the mounting plate. Fix the mounting plate to the wall. The supplied screws MUST be used. If the supplied screws are not suitable for the mounting surface, use a screw of the same size and head design, the screws used must be non corrosive.
For mounting plate C: Use the spirit level to align.

The key way of the cable must be facing to the right.

Lining up the keyways of the data cable and the controller, push the data cable plug into the back of the controller. Ensure both rubber skirts are recessed into the connection (see diagram). To make a watertight fitting, ensure the rubber seal is no longer visible.

For mounting plate A, B and D: After correctly inserting the data cable, offer the controller onto the mounting plate whilst feeding the cable back through the slot. Gently but firmly, push the controller down to secure and locate onto the mounting plate.

For mounting plate C: After correctly inserting the data cable, offer the controller up to the mounting plate whilst feeding the cable back through the slot. Position the controller into the mounting plate with the power symbol at the 7 o'clock position. Using the palm of your hand, gently apply pressure to the screen to locate the controller evenly into the mounting plate. With the other hand use the lever to rotate the controller counter clockwise until it stops and is seated in the mounting plate, and the power symbol is at the 6 o'clock position.

Visually check all the way around the two mating components to ensure there are no gaps and the controller is correctly fitted.

6 Lock the controller onto the mounting plate with the fixing screw located at the base of the controller using a small Pozidrive screwdriver.

For mounting plate A, B and D: To ensure a watertight seal, we recommend running a thin bead of silicone around the top half of the concealed controllers once it has been secured to the mounting plate.

Proceed overleaf to sections Aqualisa SmartValve™ Setup followed by Controller Commissioning Instructions.

CONTROLLERS - EXPOSED SHOWER

Positioning the controller
Think about the location of the controller. Choose a suitable height so all users can easily see and use the controller. Some controllers are activated by a proximity sensor. Refer to the user guide for details and further information. If the ceiling height is over 2.4m (8ft), a 550mm riser rail extension kit will be required. Contact our Customer Service Department to purchase a riser rail extension kit (part no: 910920).

1 Locate a suitable entry point into the ceiling for the riser rail, avoiding joists and services.

The centre of the riser rail stands 45mm from the wall. If this is not suitable, the spacers provided with the fixing brackets will increase the depth to 70mm from the wall.

2 Drill a hole through the ceiling, a minimum of Ø30mm, maximum Ø40mm.

The ceiling plate cannot be sited against an uneven surface. If there is covering or an alternative obstruction, please ensure the entry hole is neat and unobtrusive; otherwise the inner tube could be visible within the showering area. Remove ceiling plate if required.

Proceed overleaf to sections Aqualisa SmartValve™ Setup followed by Controller Commissioning Instructions.

SMART INSTALLATION

AQUALISA SMARTVALVE™ SETUP

⚠ Before any electrical adjustment is attempted, the electricity supply must be turned off at the mains switch.
Electrical installation may only be carried out by a qualified person.
All copper pipe work must be cross-bonded and connected to a reliable earthing point.

1 Power supply to the SmartValve™ **MUST** be earthed and utilise a 3 amp fuse. Connect the Aqualisa SmartValve™ power lead to a suitable electrical connection in accordance with current local and national wiring rules (refer to safety information section).
Examples of suitable connections:
- A double pole 3 amp fused switched spur incorporated in the fixed wiring circuit.
- A plug and socket, whereby the 3amp fuse can be fitted into either the plug or the socket itself.
Ensure that these are located in an accessible, dry location and not in the bathroom.

⚠ THIS APPLIANCE MUST BE EARTHED
We recommend protecting surface mounted cables in suitable approved conduit to avoid the risk of damage from vermin.
The power lead should also be clipped in place with 'IP' clips or similar to avoid accidents.

2 For divert models refer to Wiring Diagram section below. Loosen the single fixing screw on the top of the Aqualisa SmartValve™ and diverter (where supplied) then carefully tilt the lid up and off the location lugs, and set the lid aside. Plug in the transparent connector of the low voltage, 10m data cable into the socket adjacent to the temperature adjuster as indicated on the label, or into the diverter where specified. Feed the cable out of the Aqualisa SmartValve™ or diverter ensuring it is correctly routed within the data cable channel.

⚠ Divert models have product specific diverters, and the supplied diverter must be used. If diverter is lost, damaged or separated from the main product contact Customer Services for the correct replacement.

i A further data cable socket has been provided for use with a wired remote or diverter. This can be accessed by carefully snipping and removing the entry pillar and connecting the cable as described above. Please refer to the Wired Remote Installation Guide or the below wiring diagram. N.B. Wired Remotes are product specific.

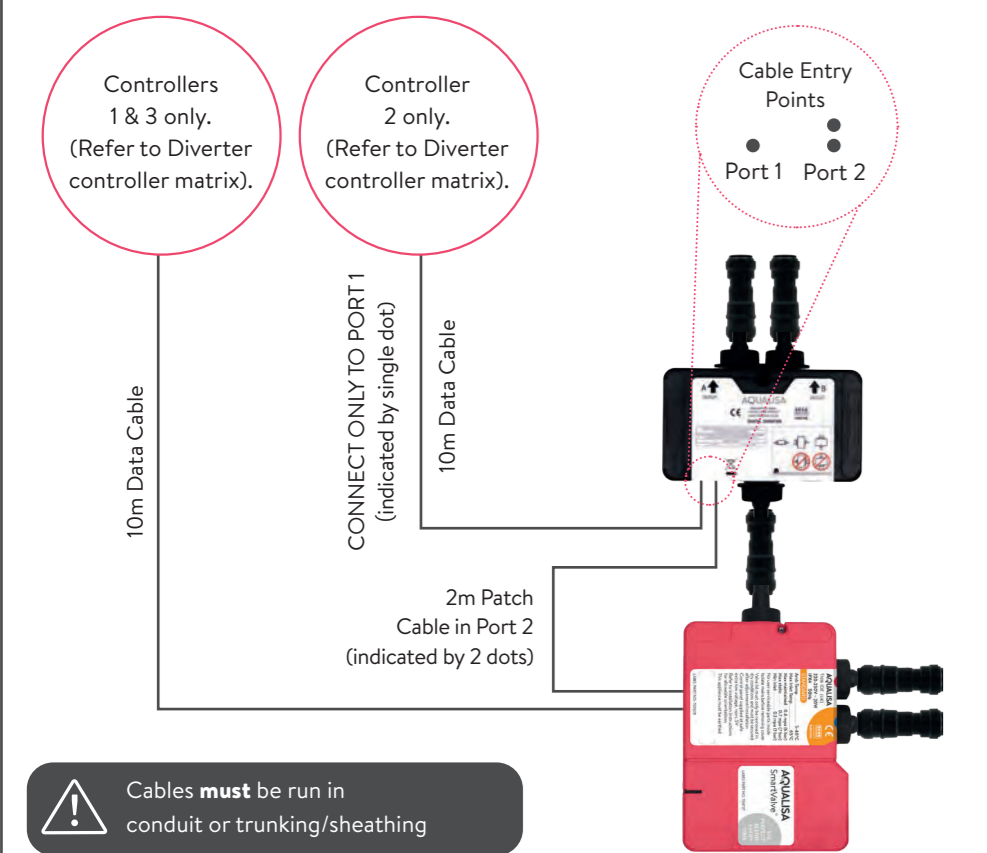
3 When making any adjustment to the Aqualisa SmartValve™ settings the power **MUST** be isolated. For water economy utilise the Eco mode. This is **not to be used on Combination boiler installations, whereby only the Combi mode must be used.**
To change the mode, use a flat bladed screwdriver.
Use the table below for water system settings.

Setting Water System Mode

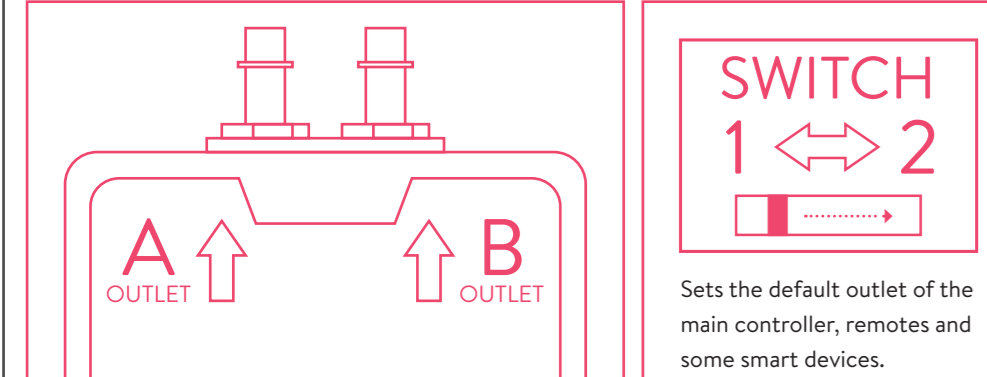
Water System	Valve Type	Setting
Combination Boiler ensure setting is changed from factory default	Standard Aqualisa SmartValve™	Combi Factory default will be Normal HP, this setting must be changed to Combi for temperature stability and optimum performance
Balanced High Pressure	Standard Aqualisa SmartValve™	Normal HP (factory default) or Eco HP
Separately Pumped Gravity	Standard Aqualisa SmartValve™	Normal HP (factory default) or Eco HP
Gravity Pumped	Pumped Aqualisa SmartValve™	Normal Gravity (factory default) or Eco Gravity

⚠ The ECO setting reduces the flow rate, therefore is not recommended when used in conjunction with combination boiler or bath filler applications.
Site conditions can affect temperature settings, installer to adjust as required. See Controller Commissioning Instructions section.

Wiring Diagram - Divert Models Only



Diverter Outlet



See reference notes in Diverter Controller Matrix for further information.

Diverter Controller Matrix

Controller 1
The controller will automatically assign the outlets as follows:
• Top button to outlet A of the diverter
• Bottom button to outlet B of the diverter

Diverter Primary Outlet Set Up
Wired remote:
Switch position 1 will allocate Outlet A as the primary.
Switch position 2 will allocate Outlet B as the primary.
Note: Changing the diverter switch position will not override the main controller settings.

Aqualisa App:
Outlet A is always the primary (default) outlet, regardless of the diverter switch position.

Smart Speaker:
Will always default to the outlet that was last used.

Controller 2
Diverter Primary Outlet Set Up
Controller:
Switch position 1 will allocate Outlet A as the primary.
Switch position 2 will allocate Outlet B as the primary.

Aqualisa App:
Outlet A is always the primary (default) outlet, regardless of the diverter switch position.

Smart Speaker:
Switch position 1 will allocate Outlet A as the primary.
Switch position 2 will allocate Outlet B as the primary.

Controller 3
⚠ Remove the protective label to allow the temperature bezel to rotate.

Refer to User Instructions, Configure Outlets section.
Note: The diverter switch position does not affect the primary outlet settings, configuring the outlets via the controller settings will establish the preferred primary outlet.

Aqualisa App:
Will start the outlet as per the user profile settings.

Smart Speaker:
The primary outlet will always start.

CONTROLLER COMMISSIONING INSTRUCTIONS

i When the power supply to the Aqualisa SmartValve™ is turned on the controller will automatically go into a set-up / configuration sequence.
Whilst in the set-up sequence the controller will display flashing LED's or a message on the display screen, this process can take up to 2 minutes to complete.
The controller is ready to use once the configuration process has finished.
Controller 3 - Special note: The protective label must be removed to allow the temperature bezel to rotate freely.

- Turn on the power supply to the Aqualisa SmartValve™.
- Run the shower at maximum temperature (factory pre set to 45°C). If required, the maximum temperature can be adjusted. (Refer to Safety Information for guidance).
- To adjust the maximum temperature, isolate the power supply to the Aqualisa SmartValve™.
Using a flat bladed screwdriver adjust the 'MAX TEMP ADJUSTMENT' control as indicated. When the temperature has been set to the desired position, carefully replace the Aqualisa SmartValve™ lid and secure the fixing screw, hand tight only.
- Reinstate the electrical supply to the Aqualisa SmartValve™. Press the 'Start/Stop' button on the controller to turn the shower on.

ADJUSTABLE HEIGHT HEADS

i Installation videos are available on our website www.aqualisa.co.uk/installation-videos or alternatively, scan the QR code on the reverse of this guide.

- Ensure the finished wall surface is even, prepare pipework from the Aqualisa SmartValve™ or diverter (where supplied) to the required position for the hose outlet using a Ø15mm pipe. Slide the wall spacer down the projecting pipe until flush with the finished wall surface.
- Slide the 15mm gripper ring down the projecting pipe until flush with the wall spacer fitting.
- Trim the projecting pipe to a length of 15-22mm, measured from the face of the gripper ring, using a suitable cutter. If a hacksaw is used, the pipe end must be carefully de-burred and chamfered.
- Clean and lubricate the pipe using a suitable (silicone based) lubricant.
- Remove the locking screw, rotate the chrome outlet assembly and remove the outlet from the wall mounting plate by carefully levering with a flat bladed screwdriver.
- Ensuring the locking screw hole is positioned at the bottom, place the wall outlet mounting plate onto the pipe assembly and mark and prepare the fixing points, using the fixings provided (if suitable).
- Secure the wall mounting plate to the wall using the screws provided (if suitable).

- Place the 'O' ring on the recess of the spigot section on the mounting plate, offer the wall outlet onto the mounting plate in the 5 o'clock position and rotate clockwise until a stop is reached.
- Refit the locking screw taking care not to overtighten.
- To fit the rail, prepare two fixing holes up to a maximum of 65mm apart. N.B. The rail kit supplied utilises a floating bracket that can be positioned to suit existing screw holes on retrofit installations.
- Dependant on the model purchased, depress the single release button or the side levers of the handset holder and slide onto the rail assembly.
- Carefully slide the gel hook onto the rail under the handset holder.
- Secure the top rail bracket into position on the finished wall surface using the short wall screw.
- Slide the bottom rail bracket onto the bottom of the rail.
- Slide the rail assembly up through the top rail bracket.
- Align the fixing hole of the bottom bracket with the corresponding holes on the rail assembly, ensuring the smaller sized hole on the rail is closest to the wall. Secure the bottom rail bracket to the wall using the long wall screw.
- Place the rail end caps into both brackets and push firmly into position.
- Ensuring the hose washer is in the correct position; attach the hose to the wall outlet or the bottom of the exposed rail.
⚠ Run the shower for a few seconds to clear any debris and to check for any leaks.
- Pass the hose through the gel hook.
⚠ 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 been designed to be utilised as a hose restraint.
- i** Make note of the type of your shower head (A or B) when proceeding with below instructions.
- For shower head A:** 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.
For shower head B: Disengage the pivot clip by pushing in the outer grey button on the front of the shower head, as shown. Remove the threaded spigot from the bottom of the handset by loosely attaching the hose to the thread and pulling clear. Ensure the hose washer is in the correct position. Tighten the threaded spigot into the hose using a suitable spanner, taking care not to over-tighten. Reinsert the spigot into the handset and engage the pivot clip prior to placing the handset into the handset holder.
- WALL MOUNTED HEAD**
i Installation videos are available on our website www.aqualisa.co.uk/installation-videos or alternatively, scan the QR code on the reverse of this guide.
- Run a 15mm outlet pipe from the Aqualisa SmartValve™ or diverter (where supplied) to the preferred position for the fixed head.
- Cut the outlet pipe to the finished length (55mm-150mm measured from the finished wall surface) using a suitable cutter. If a hacksaw is used, the pipe end must be carefully de-burred and chamfered.
- Offer the fixed head arm over the projecting pipework and ensuring it is visibly straight, mark the four fixing points.

- Remove the fixed head arm and drill and prepare using the fixings provided (if suitable) taking care to avoid pipework hidden in the wall.
- Ensuring the pipe is clean and free of dust, slide the wall spacer followed by the fixing bush onto the pipe flush with the finished wall surface.
- Fit the 15mm 'O' ring against the end of the fixing bush. Lubricate the 'O' ring using a suitable silicone based lubricant.
⚠ The 'O' ring must be positioned on the 15mm pipe flush to the fixing bush, not onto the fixing bush shaft.
- Refit the shower arm and secure it to the wall using the screws provided (if suitable).
- Run the shower for a few seconds to clear any debris and to check for any leaks.
- Slide the cover plate into position flush with the finished wall surface.
- Ensuring the rubber washer is in the correct position, attach the shower head to the fixed arm and carefully secure using a suitable spanner, or a tool with smooth jaws, sufficiently to lock the head into position.

CEILING MOUNTED HEAD

- ⚠** 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.
- i** Installation videos are available on our website www.aqualisa.co.uk/installation-videos or alternatively, scan the QR code on the reverse of this guide.
- Run a 15mm outlet pipe from the Aqualisa SmartValve™ or diverter (where supplied) to the preferred position for the fixed head.
 - 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.
 - Drill a hole (minimum Ø28mm, maximum Ø40mm) through the ceiling and the noggin.
 - Remove the fixing bracket carefully from the fixed head arm.
 - 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).
 - Feed the arm through the fixing bracket to the correct depth. Tighten the nut using a 32mm spanner if necessary to facilitate.
 - Cut off the excess pipe allowing for a suitable working length to allow for the required 22mm connection. If a push fit connector is to be used then the pipe must be abraded to remove all chrome plating.
 - Connect the pipe work from the Aqualisa SmartValve™ or diverter (where supplied) to the end of the fixed head pipe 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.
 - Lubricate the 'O' ring if necessary and carefully slide the cover plate back over the fixed head arm and into position against the ceiling.

- Secure the cover plate to the arm using the grub screw and 2.5mm hexagonal key provided.
- Ensuring the rubber washer is in the correct position, attach the shower head to the fixed arm and carefully secure using a suitable spanner, or a tool with smooth jaws, sufficiently to lock the head into position.

BATH OVERFLOW FILLER

- ⚠** The bath overflow filler is suitable for baths up to a maximum thickness of 24mm.
- i** Installation videos are available on our website www.aqualisa.co.uk/installation-videos or alternatively, scan the QR code on the reverse of this guide.
- Carefully unscrew and remove the overflow filler outlet from the body assembly and set aside.
 - Carefully unscrew and remove the bath waste clicker assembly from the waste body and set aside.
 - Offer the bath waste into position ensuring the rubber washer is correctly aligned between the waste assembly and the bath base.
 - Ensuring the rubber washer is correctly aligned, pass the bath waste clicker through the bath and secure to the waste body assembly.
 - Connect the bath waste to a suitable trap (not supplied).
 - Offer the outlet body assembly into position at the rear of the bath ensuring the rubber washer is correctly aligned between the outlet body assembly and bath wall.
 - Ensuring the rubber washer is correctly aligned, pass the overflow filler outlet through the bath and secure to the body assembly.
 - Remove the relevant inlet blanking plug and attach the flexible hose to the blended inlet connection.
⚠ PTFE thread tape **MUST** be used to guarantee a watertight seal.
 - Connect the flexible hose to the blended supply pipe ensuring a suitable non restrictive double check valve (not supplied) is fitted in line with current Water Supply Regulations.
 - Unscrew the clamping nut and remove the waste pipe from the waste assembly.
 - Remove the clamping nut and sealing washer from the waste pipe and set aside.
 - Carefully cut down the length of the waste pipe, and disconnect from the outlet assembly, ensuring not to damage the outlet.
 - To reassemble, push the longer waste pipe into position over the outlet, and secure it in place using a jubilee clip (not supplied).
NOTE: The waste pipe may need to be softened by running it under hot water, to ensure it slides over the outlet.

TROUBLESHOOTING

Symptom	Possible cause	Action
Controller LED's flashing and changing colour when power turned on to the Aqualisa SmartValve™	Start up sequence and controller configuration in process (Controller specific)	No action required - sequence and configuration can last up to 2 minutes. Wait until LED's go out and then the controller is ready to use.
Controller unresponsive - No Lights / Blank	Power supply turned off to Aqualisa SmartValve™	Check power supply is turned on - Green power light should be illuminated on the Aqualisa SmartValve™.
Controller displaying "Preparing, please wait..." for longer than 2 minutes	Loss of communications	Check data cable connections are making good contact and are fully inserted. Check that the wiring schematics are as per installation instructions.
Pump noisy and low / no flow	Air lock (for Gravity fed systems only)	For models utilising an adjustable head kit; disconnect the handset from the hose, lower the hose into the shower tray or bath, set the temperature to fully cold and then start the shower. As the water starts to flow and increase in volume gradually increase the temperature. If the flow starts to splutter, stop moving the temperature control until the flow again stabilises, then continue to move the dial towards the hottest setting. Isolate hot and cold feeds to the Aqualisa SmartValve™, disconnect from the inlet spigots and then using the isolation valve bleed through the hot and cold supplies. Release the outlet pipe work from the outlet isolation valve of the Aqualisa SmartValve™. Using an appropriate connection, flexi or length of pipe connect to the isolation valve so that water can be discharged into a bucket or suitable receptacle. Start the shower and bleed through until air is cleared. It may be required to have the controller set at a cooler temperature setting until the hot water starts to bleed through, then gradually increase the temperature. NOTE: If the product fitted uses the Aqualisa diverter, then ensure that this is taken out of the plumbing configuration but remains connected to the Aqualisa SmartValve™ via the 2m data cable.
Restriction in waterway	Check for debris in the inlet filters of the Aqualisa SmartValve™.	Check for debris in the inlet filters of the Aqualisa SmartValve™, diverter and Fixed Head connection washer.
Low / no flow	Incorrect Aqualisa SmartValve™ fitted	If water supplies are gravity fed, the PUMPED Aqualisa SmartValve™ must be used (unless a separate stand alone pump is being utilised).
Water supply issue	For Standard Aqualisa SmartValve™ - Ensure water is turned fully on at the mains and at the servicing valve in the supply. Ensure isolation valves are fully open.	For Standard Aqualisa SmartValve™ - Ensure water is turned fully on at the mains and at the servicing valve in the supply. Ensure isolation valves are fully open.
Mixed water supplies	For standard Aqualisa SmartValve™ - ensure hot and cold supplies are from the mains water supply.	For standard Aqualisa SmartValve™ - ensure hot and cold supplies are from the mains water supply.
Check filters	Check for debris in the inlet filters of the Aqualisa SmartValve™, diverter and Fixed Head connection washer.	Check for debris in the inlet filters of the Aqualisa SmartValve™, diverter and Fixed Head connection washer.
Incoming mains water pressure or flow too low	Connectors and water supply feeds to the Aqualisa SmartValve™ are restrictive	Refer to IMPORTANT INFORMATION sections: Connections and Pipe sizing.
Separate, stand alone pump not activating (Standard Aqualisa SmartValve™ only)	Ensure sufficient flow to activate the flow switches of the pump. For Aqualisa divert products a twin ended universal (negative head) pump must be used. Refer to IMPORTANT INFORMATION section.	Ensure sufficient flow to activate the flow switches of the pump. For Aqualisa divert products a twin ended universal (negative head) pump must be used. Refer to IMPORTANT INFORMATION section.
Aqualisa SmartValve™ pump not activating	Refer to Setting Water System Mode section, ensure mode is set to normal or ECO gravity setting.	Refer to Setting Water System Mode section, ensure mode is set to normal or ECO gravity setting.
Unable to adjust or control temperature	Reversed inlet water supplies (i.e. Hot supply feeding cold inlet and vice-versa)	Ensure correct water supply to specified inlet connection.
Fluctuating water temperature	Incorrect setting on Logic Module of Aqualisa SmartValve™	If hot water supply is from a combination boiler - the Logic module mode MUST be set to COMBI.
Airlock in water supplies (for gravity fed systems only)	See "Air lock" in Possible Cause section.	See "Air lock" in Possible Cause section.
Hot water temperature too high	Ensure hot water supply temperature is below 65°C (minimum 55°C for stored water and 50°C for combination boilers).	Ensure hot water supply temperature is below 65°C (minimum 55°C for stored water and 50°C for combination boilers).
Communications issue	Check data cable connections.	Check data cable connections.
Combination boiler unable to meet demand	Check that the hot water temperature is stable at another high flowing outlet (e.g. bath hot tap - run at maximum flow rate), additionally run a cold outlet at 1/3 of a maximum flow rate.	Check that the hot water temperature is stable at another high flowing outlet (e.g. bath hot tap - run at maximum flow rate), additionally run a cold outlet at 1/3 of a maximum flow rate.
Temperature too low	Low hot water temperature	Check that domestic hot water temperature is a minimum of 55°C for stored water and 50°C for combination boilers.
Logic Module temperature setting too low	Refer to section: Controller Commissioning Instructions.	Refer to section: Controller Commissioning Instructions.
Temperature too low - Controller temperature ready display does not stabilise	Mixed water supplies being gravity hot and mains cold.	Water supplies MUST be from the same source: MUST NOT be gravity hot and mains cold.
Unbalanced water supplies	For mains fed systems the cold and hot feeds should be as evenly balanced as possible - especially for HP unvented systems.	For mains fed systems the cold and hot feeds should be as evenly balanced as possible - especially for HP unvented systems.
Combination boiler unable to meet demand	Check the hot water temperature is stable at another high flowing outlet (e.g. bath hot tap - run at maximum flow rate), additionally run a cold outlet at 1/3 of a maximum flow rate.	Check the hot water temperature is stable at another high flowing outlet (e.g. bath hot tap - run at maximum flow rate), additionally run a cold outlet at 1/3 of a maximum flow rate.
Controller remains illuminated after switching shower off	Poor cable connection	Check data cable connections are making good contact and are fully inserted (this includes installations where a wired remote is fitted).
Object within range of proximity sensor and activating Auto Wake-up	Check user guide to see if the model in question has this feature - and go to settings menu for guidance on disabling this function.	Check user guide to see if the model in question has this feature - and go to settings menu for guidance on disabling this function.
Water flows from incorrect outlet (divert models only)	Pipe work configured incorrectly	Refer to section: Diverter Controller Matrix.
Primary outlet setting not configured	Refer to section: Diverter Controller Matrix.	Refer to section: Diverter Controller Matrix.
Outlets not configured (For models with display screen only)	Refer to User Guide: Settings Section - Configuring your Outlets.	Refer to User Guide: Settings Section - Configuring your Outlets.
Flow will not switch between outlets	Communications issue	Check that 2m patch lead is connected between Aqualisa SmartValve™ and diverter and that the cables are connected to the correct ports. See section: Wiring Diagram - Divert Models Only. Ensure the correct 2m patch lead is connected - refer to separate Components List.
Outlets not configured (For models with display screen only)	Turn off the power supply to the Aqualisa SmartValve™, leave isolated for at least 2 minutes. Reinstate power supply and then following instruction in the User Guide (Settings Menu) complete a factory reset, then proceed to Configure Outlets.	Turn off the power supply to the Aqualisa SmartValve™, leave isolated for at least 2 minutes. Reinstate power supply and then following instruction in the User Guide (Settings Menu) complete a factory reset, then proceed to Configure Outlets.

For further information and advice contact Aqualisa Customer Helpline or refer to the Troubleshooting sections in the User Guide.