

AQUALISA

OPTIC Q™



USER GUIDE

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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. For further information regarding the installation of your product, refer to the Smart Installation Guide.

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).

Optic Q™ Controller



Get Smart Connected

Unlock the potential of your shower; from water consumption analysis to enhanced user functions. Keep up to date with latest features for the Aqualisa app and voice activation by visiting the Aqualisa website.

Download and open the free Aqualisa app. Find instructions on page 15 “Connecting to the App”. If you have any trouble downloading the Aqualisa app, check www.aqualisa.co.uk/smartapp for device compatibility.

Quick Start

You can prepare your temperature and outlet before you switch on the shower, or adjust with ease while showering.



**WAKE UP, (POWER ON)
AND POWER OFF**

SHOWER ON



TEMPERATURE

Adjust before or during showering.

FLOW

Adjust during showering only.

SELECT OUTLET*

Push and hold Q™ lever for over 3 seconds then release when desired outlet icon appears.

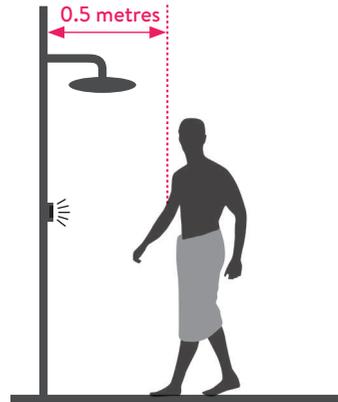


* Divert models only

Wake-up

The controller has a proximity sensor, so as you approach or move your hand towards the controller, the display wakes up and is ready to go.

(You can disable this feature in the Settings menu - see page 12).



The proximity sensor detects any object directly in front, at approximately 0.5m away from the controller. See page 17 for more information.

Switching On and Off

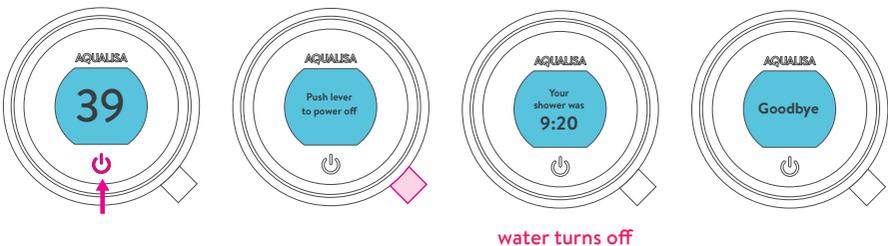
STARTING YOUR SHOWER

To activate the controller, use the proximity sensor, or touch the power symbol until the screen wakes up, then push and release the lever to start the shower. The Get Ready screen will appear on the display. After a moment the target temperature will flash until it is reached. It will then display the thermostatically controlled temperature.



ENDING YOUR SHOWER

Touch the power symbol for approximately 1 second, then push the lever when prompted, to confirm and end the shower.



As a safety feature, the Aqualisa SmartValve™ has a maximum run time of 20 minutes. The flow can be stopped and started at anytime by following the instruction on this page.

This can be enhanced by activating and using the free Aqualisa app. See pages 3 and 15 for details.

Adjusting the Temperature

From the **Home** screen you can adjust the temperature at any time, before or during showering, by turning the bezel.



TIP: This is your Home screen. When in any of the Menu or Settings screens, you can easily return to the home screen by turning the temperature bezel.

TEMPERATURE FEEDBACK DISPLAY*



Turn clockwise to increase the temperature. While the temperature is adjusting the screen will flash and the display will show **Warming**. When the desired temperature is reached, the display will stop flashing.

Turn anti-clockwise to decrease the temperature. While the temperature is adjusting the screen will flash and the display will show **Cooling**. When the desired temperature is reached, the display will stop flashing.

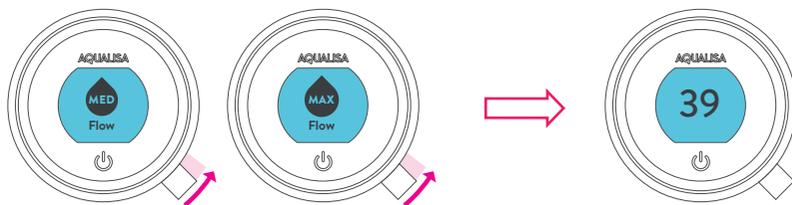
* Very small changes in temperature may not result in **Warming** or **Cooling** messages showing, only the temperature value will change.

Adjusting the Flow

From the **Home** screen you can adjust the flow during showering, by moving the lever left or right.*



FLOW FEEDBACK DISPLAY



After adjusting the flow, the display will return to the temperature **Home** screen after a few seconds.



Emergency Stop: When the flow setting is at ECO, joggle the Q™ lever down 3 times in succession to turn the shower off.

*Flow cannot be adjusted when in **Settings** mode, or when the shower is awake and not flowing.

Selecting your Outlet Divert models only

From the **Home** screen, you can alternate between outlets by pushing and holding the lever for over 3 seconds and releasing when the desired outlet icon appears. This can be done upon starting the shower, or during showering.



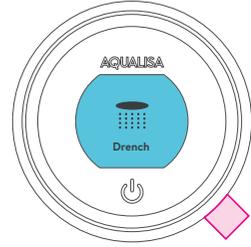
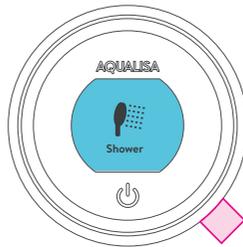
Push and hold for over 3 seconds



Release lever when desired outlet icon appears

OUTLET ICONS

By default your controller will show the **Shower** icon as the primary outlet and the **Drench** icon as secondary. To change, go to **Settings** menu, **Configure Outlets** (page 14).



Single Outlet

Vita™ Head

To avoid water dripping from the shower head after use, we advise to tilt the head back to allow residual water to drain out.

The above recommendation applies to both adjustable and fixed shower heads.

Rotate the spray plate lever clockwise or anticlockwise to select the desired spray pattern.

To select the preferred height for the shower head, squeeze the side levers together to allow the handset holder to move up or down the rail.

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

Removing the shower head: With the hose still attached, disengage the pivot clip by pushing in the outer grey button located on the front of the shower head (near to the hose connection). Remove the threaded spigot from the bottom of the handset by using the hose to pull clear. To reattach: 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.



1. Inner



2. Middle



3. Outer



Bath Overflow Filler

1. Push the waste cover to engage the plug fitting.
2. Push the waste cover again to disengage the plug.



Do not leave the bath filler running unattended. Although the overflow will remove excess water once the bath is overfilled, this may not be sufficient to prevent the bath from overflowing (depending on system conditions).



Fixed Head

The angle of the fixed shower head can be adjusted. The shower head is mounted on a multi directional ball joint to allow for minor angular adjustment in any direction by carefully holding the shower head and moving the head to the desired angle.

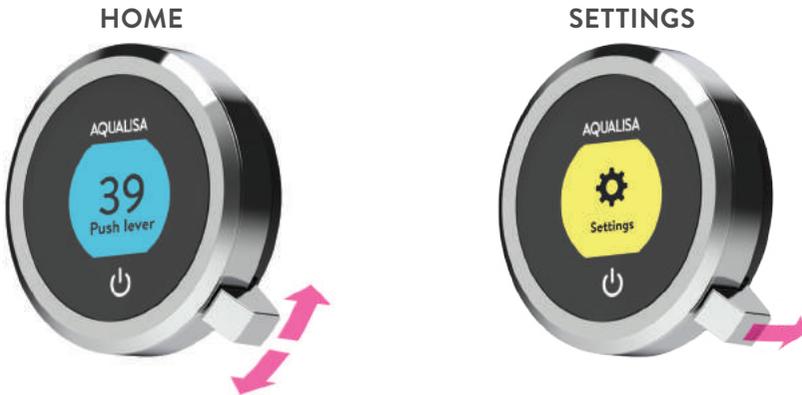
N.B. Do not force the angle of the head beyond its natural stopping point.



Settings

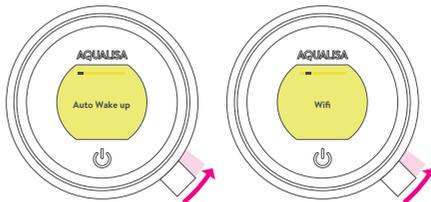
Optic Q™ features optional settings to enhance your shower.

To enter **Settings**, from the Home Screen, move the lever left or right until the **Settings** screen appears. Push the lever to enter. Access to the settings menu is only available when water is not flowing.



BROWSING THE SETTINGS MENU

When in the **Settings** menu, move the Q™ lever left or right to browse.



EDITING A SETTING

To change a setting, push the lever. Move the lever left or right to choose your preference, (the active setting is in darker type) and push the lever to confirm. A tick will briefly appear to confirm your choice.



Settings



AUTO WAKE UP

This setting allows the **Wake Up** feature to be turned off. This may be required if you have a small shower enclosure, and the controller is permanently active. Factory default: ON.



WI-FI

To connect to the Aqualisa app and enable shower functionality using your personal smart devices.



PAIR A REMOTE

If you have purchased a remote control, please refer to the separate instructions supplied.



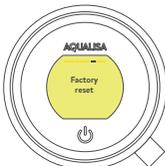
CONFIGURE OUTLETS

This setting enables you to choose the icons that represent your outlets, and change the primary outlet. (See page 14 for details).



ABOUT MY Q

For Aqualisa Service Technician use.



FACTORY RESET

Reset all settings to factory default.



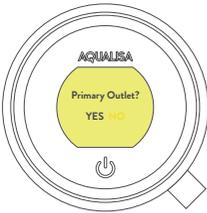
FIRMWARE UPDATE

This setting should only be used under advice from Aqualisa Customer Service or by an Aqualisa Service Technician.

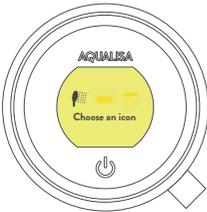
Configuring your Outlets



This setting enables you to choose the icons that represent your outlets. If you have multiple outlets, you can also select the most commonly used, this is known as the primary outlet. Water will divert to this outlet unless you select otherwise.



When you enter this setting you will first be asked to switch on the shower. You will then be prompted to confirm if the outlet running is the desired Primary Outlet.



Next, move the lever left or right to browse icons. Push the lever to select the icon that matches your installation.



When you have selected the icons, your choice will be confirmed with OK.



NB: Only available with divert models. You can not configure outlets whilst the shower is in use.

Connecting to the App



Before starting you will need your Network Name (SSID code) and password as they are required during the Aqualisa app setup journey. These can normally be found on your internet router.

For Wi-Fi set up, the Aqualisa SmartValve™ must be powered, but the shower must not be in use.



Download and open the Aqualisa app on your personal smart device and follow the instructions to create Your Home profile before continuing with this section.

For further advice, information on compatible devices, or if you have any trouble downloading the app scan the QR code or go to www.aqualisa.co.uk/smartapp.



Set up Shower - Controller

Wake the controller and navigate to the Settings Menu.

From the settings menu, navigate to and select the Wi-Fi setting.

Following the instruction on the screen of the controller – push the lever to connect.

Set up Shower - Wi-Fi

The Aqualisa app will direct you to the Wi-Fi settings menu on your mobile device.

From the list of available Networks select: **QSVC XXXX**

The password is: **SmartShower**

Follow the instructions on the Aqualisa app. Upon completion of this, continue with the instructions on the next page.

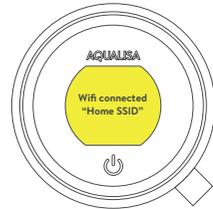


The controller will display a Wi-Fi symbol and have the message “Connecting”. This indicates that the Aqualisa SmartValve™ is connecting to the Aqualisa app.



N.B. Depending on Wi-Fi signal strength, the connection may take a few minutes. Follow the instructions on the Aqualisa app. Upon completion of this, continue with the below.

A message will provide confirmation in the Aqualisa app journey and on the screen of the controller that connection is successful.



To exit the controller menu, either rotate the temperature bezel or allow the Settings menu to time out.



The Aqualisa app gives you the capability to operate your product remotely using your mobile device. It is the responsibility of the user to ensure that it is safe to remotely activate the water flow. Aqualisa recommend that baths and showers in operation are not left unattended.

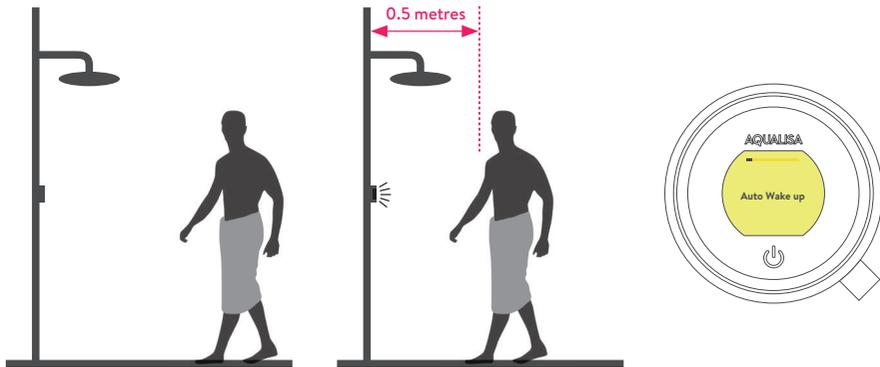


If the timer setting is adjusted within the Aqualisa app, then the shower will run for the newly set duration, overriding the default maximum run time. N.B. The water flow will stop at the end of the timer.

The Proximity Sensor

AUTO WAKE-UP*

The controller has a proximity sensor, so as you approach, or move your hand towards the controller, the display wakes up and is ready to go.



*In some circumstances, in smaller shower enclosures, **Auto Wake Up** may cause the control to remain active. If this occurs, you should disable **Auto Wake Up** in Settings (see page 12).

Caring for your Shower

Over time, your shower may be affected by hard water scaling. To keep your shower working effectively, we recommend that you clean your shower regularly.

Your product should be cleaned using only a soft cloth and washing up liquid. The bath system 'click clack' waste plug mechanism (if applicable) should be kept clear of debris to ensure the plug maintains a watertight seal. The plug can be unscrewed and removed to check and clean the mechanism.

Cleaning the shower head

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. This procedure should be completed regularly, as often as once a week in some hard water areas, as scale build up can affect the spray pattern and cause the shower to perform poorly. Failure to descale the shower head can affect the internal seals and may affect the warranty. Should descaling of the head using a cleaning agent become necessary, remove the shower head fully and immerse in a mild proprietary descaler (e.g. vegetable based or plain white vinegar). Cleaning and maintenance should not be undertaken by children without supervision by a person responsible for their safety.



DO NOT USE ABRASIVE CLEANERS. It is imperative that descaling is carried out in accordance with the manufacturer's instructions, substances that are not suitable for plastics and electroplated surfaces must not be used.



Cleaning tip: To keep your shower effortlessly clean, we recommend drying all shower components with a soft cloth after use.

Changing water system?

If switching from a gravity-fed water system to a mains pressure system (e.g. Combination boiler) you will need to change your Aqualisa SmartValve™. Contact a member of our Customer Service team for further information.

Troubleshooting

Symptom	Possible cause	Action
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™. Additionally check the following 2 action points.
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 and that there is no visible damage.
		Check that the wiring schematics are as per installation instructions in the Smart Installation Guide.
Pump noisy and low / no flow	Air lock (for Gravity fed systems only)	For models utilising a adjustable head kit; disconnect the handset from the hose, see Head section on page 10, 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.
	Restriction in the waterway	Check for debris in the inlet filters of the Aqualisa SmartValve™, diverter and Fixed Head connection washer. Must be conducted by a qualified person. NOTE: The water supplies MUST be isolated when checking the inlet filters.
	Blocked or kinked hose liner	Where a flexible hose is fitted, unscrew the shower hose from the outlet connection and turn the shower on.
Auto wake up (proximity) not activating	Auto wake up turned off	Go to Settings menu and ensure Auto wake up is ON. See page 13 for instructions.
Flow does not change when adjusted with lever	Combination boiler output does not meet the flow demand	Check with boiler manufacturer for specification details.
	Aqualisa SmartValve™ is set to ECO mode	Refer to Setting Water System Mode section in the Smart Installation Guide. Ensure mode is set to normal or ECO gravity setting.
	Seasonal conditions	During the cooler months the mains water temperature drops and this will reduce the performance of combination boilers. Check with your boiler manufacturer for details.

Low / no flow	Seasonal conditions	See previous point.
	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). Refer to the Smart Installation Guide.
	Water supply issue	For the 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.
	Restriction in the waterway	See same cause in 'Pump noisy and low / no flow' symptom.
	Blocked or kinked hose liner	Where a flexible hose is fitted, unscrew the shower hose from the outlet connection and turn the shower on.
	Incoming mains water pressure or flow too low (Standard Aqualisa SmartValve™ only)	After confirming that the filters are clear, check with the local water authority.
	Separate, stand alone pump not activating (Standard Aqualisa SmartValve™ only)	Ensure sufficient flow to activate the flow switches of the pump. Refer to IMPORTANT INFORMATION section in the Smart Installation Guide.
	Aqualisa SmartValve™ pump not activating	Refer to Setting Water System Mode section in the Smart Installation Guide, ensure mode is set to Normal or ECO Gravity setting.
Aqualisa SmartValve™ is set to ECO mode	Refer to the above point.	
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 of the Aqualisa SmartValve™.
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. Refer to Setting Water System Mode section in the Smart Installation Guide.
	Airlock in water supplies (for gravity fed systems only)	See "Air lock" in Possible Cause section on page 19.

Fluctuating water temperature (continued)	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).
	Communications issue	Check data cable connections and that there is no visible damage.
	Combination boiler unable to meet demand	Check if another outlet in the property is being used at the same time. 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. If the same issue is evident on these outlets, contact your boiler manufacturer.
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	Maximum temperature is set to a factory default of 45°C. To adjust refer to the important information section (Safety Information) and Controller Commission Instructions in the Smart Installation Guide.
Temperature too low - Controller temperature ready display does not stabilise	Hot water supply issue	Check another hot water outlet to ensure that hot water is available.
	Mixed water supplies	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.
	Combination boiler unable to meet demand	See same cause in 'Fluctuating Water Temperature' symptom.
Temperature too hot	Seasonal conditions	In the warmer months, the mains water temperature can rise to ambient level. The Aqualisa SmartValve™ always blends a mix of both hot and cold supplies therefore the output temperature at fully cold (controller setting) will always be higher than the incoming cold water supply.
Temperature too hot	Seasonal conditions (gravity fed systems only)	For installations which utilise a cold water storage supply (gravity fed system), the ambient temperature in the loft can rise to above 40°C. In turn, this warms the stored water. Check by running a cold tap that is supplied from the water storage. N.B. Kitchen taps are normally fed from the mains water system.
Maximum temperature setting is not to your preference	Settings need adjusting	Refer to section 'Temperature too low', possible cause 'Logic module setting too low'.

Controller remains illuminated after switching shower off	Poor cable connection	Check data cable connections are making good contact, are fully inserted and that there is no visible damage.
	Object within range of proximity sensor and activating Auto Wake-up	Refer to Settings section for guidance on disabling this function.
Water flows from incorrect outlet (divert models only)	Outlets not configured	Refer to User Guide: Settings Section - Configuring your Outlets on page 14.
Unable to configure outlets in Settings menu	Communications issue	Check that 2m patch lead is connected between Aqualisa SmartValve™ and diverter. Refer to Wiring Diagram Section in the Smart Installation Guide.
	Outlets not configured	Turn off the power supply to the Aqualisa SmartValve™, leave isolated for at least 2 minutes. Reinststate power supply and then following instructions in the Settings Menu complete a Factory Reset, then proceed to Configure Outlets.
Water dripping from outlets after use	Water retention in shower heads	Refer to page 10. Descale shower heads to clear spray jets.
	High pressure (unvented) water system requires servicing	Check the user guide for the hot water system to verify symptoms and where required arrange for servicing.
Flow shuts off by itself	Maximum run time exceeded or end of duration reached in app timer setting	Refer to pages 6 and 16.

For further information and advice refer to Smart Installation Guide or contact the Aqualisa Customer Helpline.

Have you Registered?

All our products are manufactured to the highest standards. In the unlikely event that something goes wrong, we want all our customers to be protected, which is why we give you a totally free of charge 1 year parts and labour guarantee*. You can easily **increase your FREE guarantee to 5 years** simply by registering your product. Please keep your receipt to validate your guarantee. Please see our website for full terms and conditions.

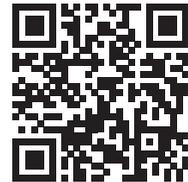
*Subject to terms and conditions



Register your guarantee instantly at
aqualisa.co.uk/guarantee



Register your guarantee
0800 408 4243



Need Help?



You can find Frequently Asked
Questions at **aqualisa.co.uk**



Speak to our Customer Service
team on **01959 560010**



Use Live Chat at
aqualisa.co.uk



Or email us at
enquiries@aqualisa.co.uk

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REPUBLIC OF IRELAND

Sales enquiries: 01-864-3363, Service enquiries: 01-844-3212



Please note that calls may be recorded for training and quality purposes.

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

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Q5083 Part No 705145 Issue 01 May 20

AQUALISA



SMART INSTALLATION GUIDE

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 boiler 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 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.

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

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

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.

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.

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.

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 national Water Supply Regulations prior to connection of the product.

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

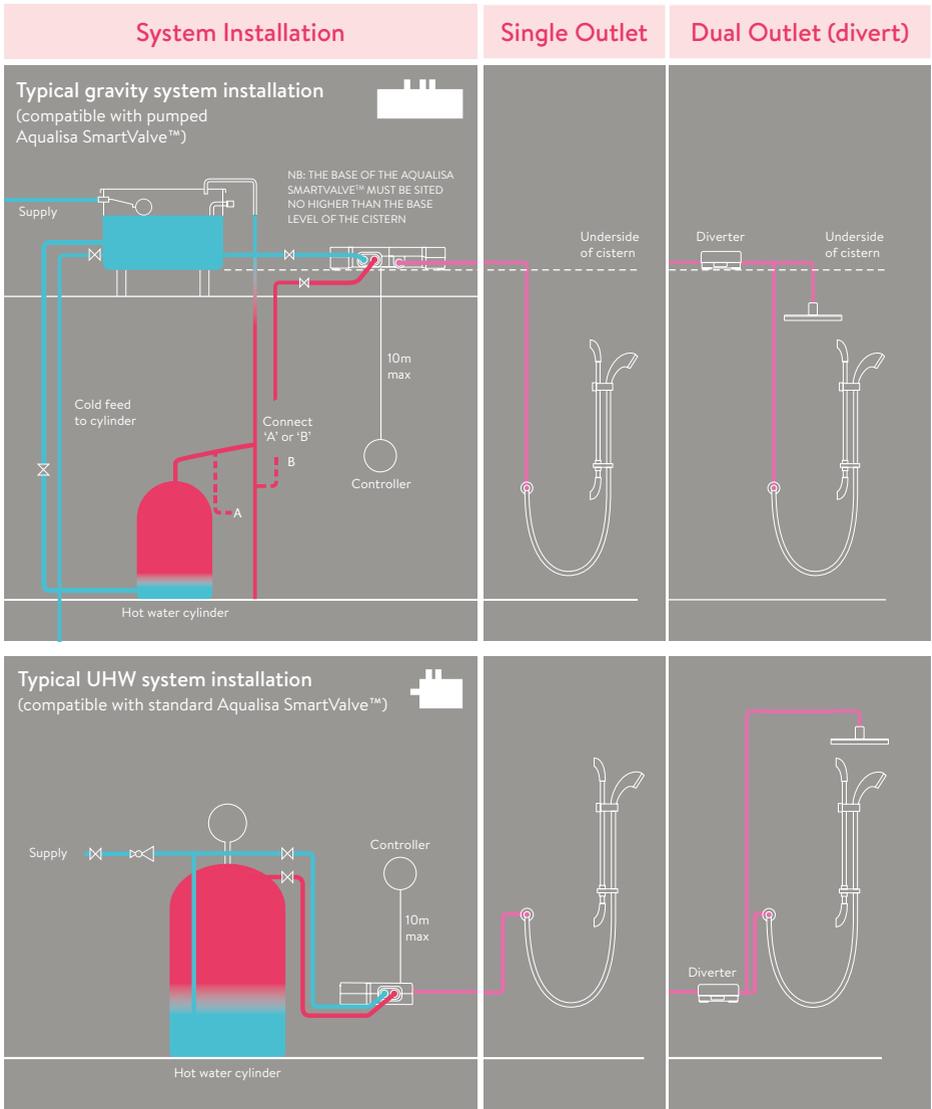
After installation

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

Guarantee

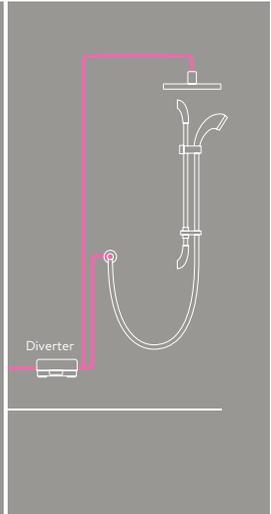
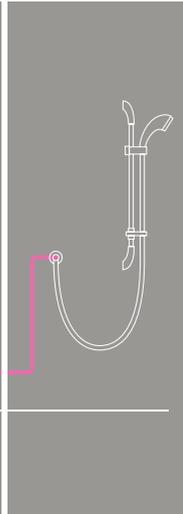
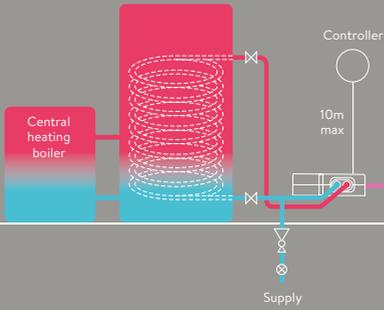
Aqualisa products are supplied complete with a 1 year parts and labour guarantee that can be upgraded by registering the product with Aqualisa. See www.aqualisa.co.uk/guarantee for details.

System layout diagrams



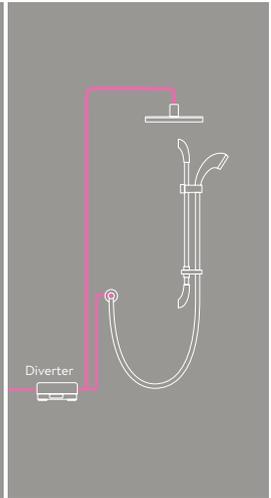
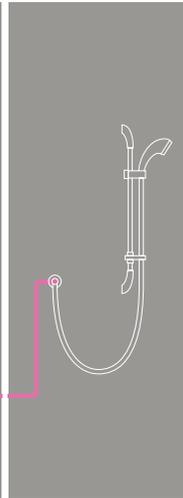
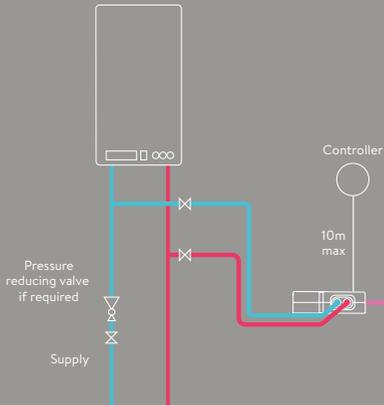
Typical thermal storage unit system installation

(compatible with standard Aqualisa SmartValve™)



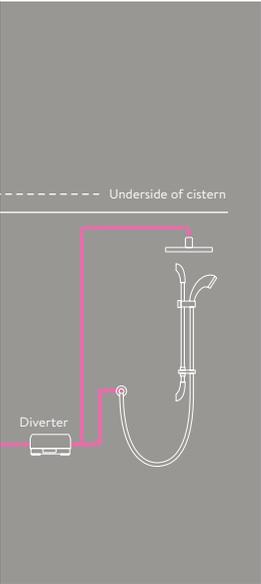
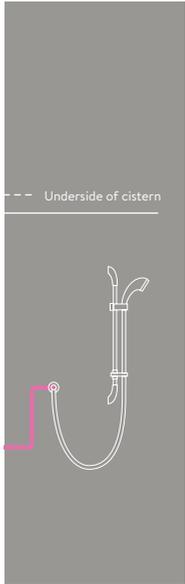
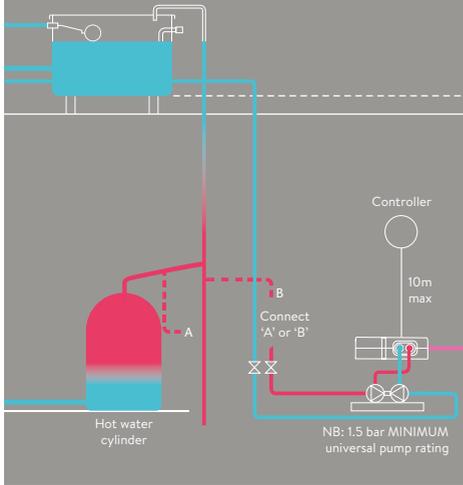
Typical combination system installation

(compatible with standard Aqualisa SmartValve™)



Typical pumped system installation

(compatible with standard Aqualisa SmartValve™)



SMART INSTALLATION



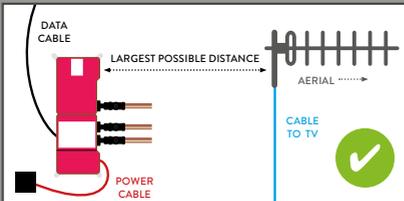
This product must be installed by a competent person in accordance with the relevant Water Supply Regulations. Prior to installation, ensure all literature supplied with this product is read and understood. We have taken great care to ensure that this product reaches you in perfect condition, however 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

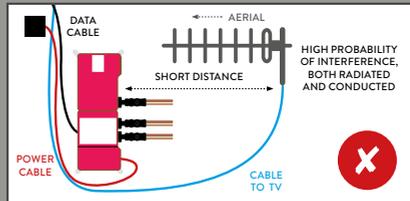
Although the Aqualisa SmartValve™ complies with all relevant EMC standards, if incorrectly sited, it may interfere with digital TV reception. Please follow the recommendations below to minimise this effect.

See recommended layouts below.

Images of Aqualisa SmartValve™ for illustration only, refer to instruction 1 for orientation.



LOWEST PROBABILITY OF INTERFERENCE



LAYOUT WHICH COULD CAUSE PROBLEMS

- 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.

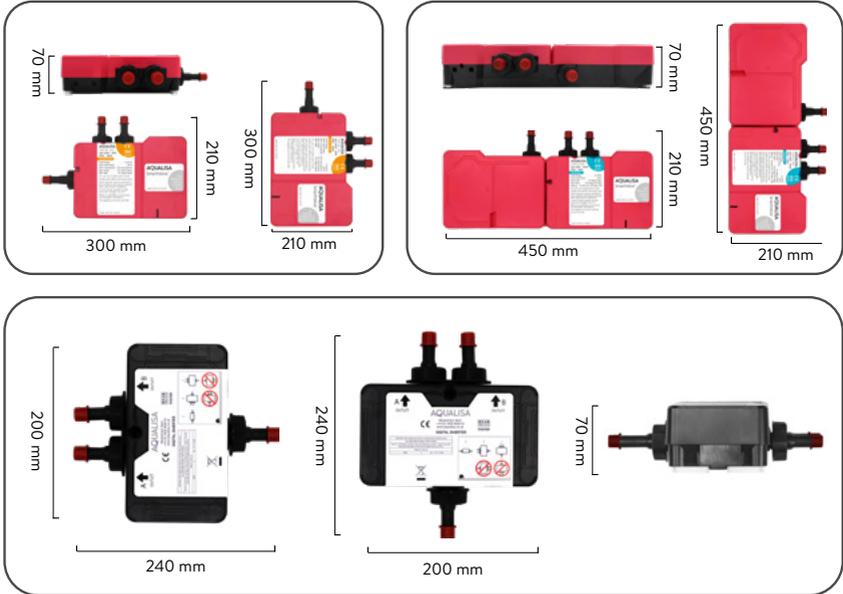


Installation videos are available on our website www.aqualisa.co.uk/installation-videos or alternatively, scan the QR code on the reverse of this guide.

AQUALISA SMARTVALVE™ & DIVERTER

1

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.



2

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.



Exposed installation example shown

i

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 boarded 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.



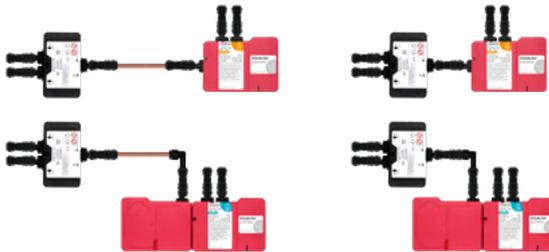
7

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.

i

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.

Divert Installation Examples



See section 1 for orientations.

Images shown are aerial views and are for illustrative purposes only.

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.

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™). 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.

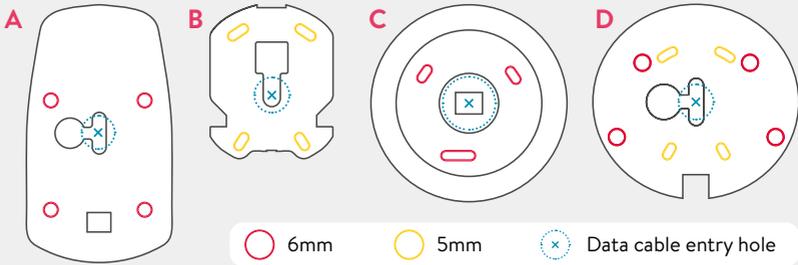


Supplied screws must be used as failure to do so will result in poor fitting of the controller, affecting its functions and may invalidate the warranty. If the supplied screws are not suitable for the mounting surface, use a screw of the same size and head design, the screws used must be non corrosive.

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  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 saw

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.

i

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.

4

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. If required, utilise a blunt flat bladed screwdriver or similar tool to push the connection fully home.



5

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.

i

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

CONTROLLERS - EXPOSED SHOWER

i

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 coving 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.

3

Feed the data cable through the hole in the ceiling followed by the riser rail assembly containing the supply pipe. Ensuring the controller is at the desired height, the rail is vertical, and that there is adequate working clearance above the top of the rail in the roof space.





DO NOT use a compression fitting or soldered joint to connect the outlet pipe to the top of the exposed product. The black push fit elbow provided MUST be used. This connection MUST be sited in a position that is safely accessible for commissioning, servicing and maintenance purposes.

Failure to meet these requirements will invalidate the warranty.

4

Temporarily slide the gel hook up the rail ensuring it is positioned above the lower fixing bracket assembly.

5

Place the lower bracket support pillar into position ensuring the locking lug is correctly fitted into the locating hole in the rail.



6

Carefully slide the fixing bracket over the rail onto the support pillar.



7

Ensuring the rail assembly has been passed through the hole in the ceiling and is at the desired height, mark the screw holes and remove the fixing bracket.

8

Prepare suitable fixings and slide the fixing bracket back over the rail onto the support pillar. Secure to the wall using the screws provided (if suitable).

9

Place the upper rail bracket support pillar into the desired location ensuring that both the hose restraint and the handset holder are below the upper rail wall bracket position.



10

Slide the fixing bracket over the rail onto the support pillar and repeat fixing procedures 7-8.



11

Carefully slide the rail end covers onto the fixing brackets flush with the finished wall surface and click the sides firmly into position.



12

Slide the ceiling plate up to the ceiling to cover the entry hole.



i

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

AQUALISA SMARTVALVE™ SETUP



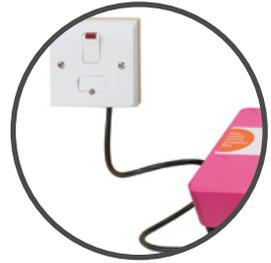
Before any electrical adjustment is attempted, the electricity supply must be turned off at the mains switch.

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

Connect the Aqualisa SmartValve™ power lead to a double pole 3 amp fused switched spur incorporated in the fixed wiring circuit, in accordance with current wiring rules (refer to safety information section). Ensure that this is 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 'P' clips or similar to avoid accidents.

2

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. Feed the cable out of the Aqualisa SmartValve™ 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.



A further data cable socket has been provided for use with a wired remote or diverter. This can be accessed by carefully snapping 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

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

Controllers
1 & 3 only.
(Refer to Diverter
controller matrix).

Controller
2 only.
(Refer to Diverter
controller matrix).

Cable Entry
Points
Port 1 Port 2

10m Data Cable

CONNECT ONLY TO PORT 1
(indicated by single dot)

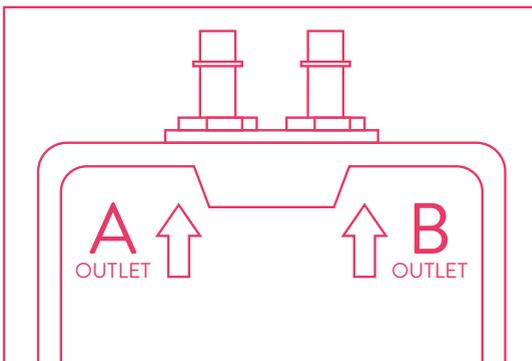
10m Data Cable

2m Patch
Cable in Port 2
(indicated by 2 dots)



Cables **must** be run in
conduit or trunking/sheathing

Diverter Outlet



SWITCH

1 ↔ 2



This switch sets the default
outlet for the shower
controllers.

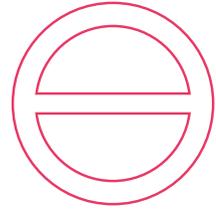
See reference notes in Diverter Controller Matrix for further information.

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



If using a wired remote

By default the remote button will assign outlet A as the primary. If required, this can be changed from outlet A to outlet B, meaning when operated via the wired remote, the preferred outlet will always operate first.

Switch position 1 will allocate Outlet A as the primary.

Switch position 2 will allocate Outlet B as the primary.

Changing the switch position will not override the main controller settings.

Controller 2

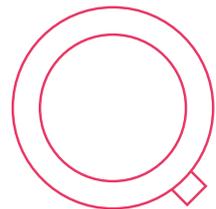
Switch position 1 will allocate Outlet A as the primary.

Switch position 2 will allocate Outlet B as the primary.



Controller 3

Refer to User Instructions,
Configure Outlets section.



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.

1

Turn on the power supply to the Aqualisa SmartValve™.

2

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).

3

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.



4

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.

1

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.

2

Slide the 15mm gripper ring down the projecting pipe until flush with the wall spacer fitting.



3

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 deburred and chamfered.

4

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

5

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.



6

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).



7

Secure the wall mounting plate to the wall using the screws provided (if suitable).



8

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.

9

Refit the locking screw taking care not to overtighten.



10

To fit the rail, prepare two fixing holes up to a maximum of 657mm apart. N.B. The rail kit supplied utilises a floating bracket that can be positioned to suit existing screw holes on retrofit installations.

11

Dependant on the model purchased, depress the single release button or the side levers of the handset holder and slide onto the rail assembly.



12

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

13

Secure the top rail bracket into position on the finished wall surface using the short wall screw.



14

Slide the bottom rail bracket onto the bottom of the rail.



15

Slide the rail assembly up through the top rail bracket.



16

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.

17

Place the rail end caps into both brackets and push firmly into position.



18

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.

19

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



A

Make note of the type of your shower head (A or B) when proceeding with below instructions.



B

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



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.

1

Run a 15mm outlet pipe from the Aqualisa SmartValve™ or diverter (where supplied) to the preferred position for the fixed head.

2

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.

3

Offer the fixed head arm over the projecting pipework and ensuring it is visibly straight, mark the four fixing points.

4

Remove the fixed head arm and drill and prepare using the fixings provided (if suitable) taking care to avoid pipework hidden in the wall.

5

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.

6

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.

7

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.

8

Slide the cover plate into position flush with the finished wall surface.



9

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.



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.

1

Run a 15mm outlet pipe from the Aqualisa SmartValve™ or diverter (where supplied) 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 $\text{Ø}28\text{mm}$, maximum $\text{Ø}40\text{mm}$) through the ceiling and the noggin.

4

Remove the 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

Feed the arm 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 22mm 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 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.

9

Lubricate the 'O' ring if necessary and carefully slide the cover plate back over the fixed head arm and into position against the ceiling.



10

Secure the cover plate to the arm using the grub screw and 2.5mm hexagonal key provided.



11

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.

1

Carefully unscrew and remove the overflow filler outlet from the body assembly and set aside.



2

Carefully unscrew and remove the bath waste clicker assembly from the waste body and set aside.



3

Offer the bath waste into position ensuring the rubber washer is correctly aligned between the waste assembly and the bath base.



4

Ensuring the rubber washer is correctly aligned, pass the bath waste clicker through the bath and secure to the waste body assembly.



5

Connect the bath waste to a suitable trap (not supplied).

6

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.



7

Ensuring the rubber washer is correctly aligned, pass the overflow filler outlet through the bath and secure to the body assembly.



8

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.

9

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.

WASTE PIPE EXTENSION KIT



If required for larger baths, a 900mm waste pipe conversion kit is available from the Aqualisa Customer Service department, part number 910064. Please contact our Customer Service Department on 01959 560010.

1

Unscrew the clamping nut and remove the waste pipe from the waste assembly.



2

Remove the clamping nut and sealing washer from the waste pipe and set aside.

3

Carefully cut down the length of the waste pipe, and disconnect from the outlet assembly, ensuring not to damage the outlet.



4

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	<p>Check data cable connections are making good contact and are fully inserted.</p> <p>Check that the wiring schematics are as per installation instructions.</p>
Pump noisy and low / no flow	Air lock (for Gravity fed systems only)	<p>For models utilising a 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.</p> <p>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.</p> <p>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.</p>

<p>Pump noisy and low / no flow</p>	<p>Air lock (for Gravity fed systems only) continued</p> <p>Restriction in waterway</p>	<p>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.</p> <p>Check for debris in the inlet filters of the Aqualisa SmartValve™.</p>
<p>Low / no flow</p>	<p>Incorrect Aqualisa SmartValve™ fitted</p> <p>Water supply issue</p> <p>Mixed water supplies</p> <p>Check filters</p> <p>Incoming mains water pressure or flow too low</p> <p>Connectors and water supply feeds to the Aqualisa SmartValve™ are restrictive</p> <p>Separate, stand alone pump not activating (Standard Aqualisa SmartValve™ only)</p> <p>Aqualisa SmartValve™ pump not activating</p>	<p>If water supplies are gravity fed, the PUMPED Aqualisa SmartValve™ must be used (unless a separate stand alone pump is being utilised).</p> <p>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.</p> <p>For standard Aqualisa SmartValve™ - ensure hot and cold supplies are from the mains water supply.</p> <p>Check for debris in the inlet filters of the Aqualisa SmartValve™, diverter and Fixed Head connection washer.</p> <p>After confirming that the filters are clear, check with the local water authority.</p> <p>Refer to IMPORTANT INFORMATION sections: Connections and Pipe sizing.</p> <p>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.</p> <p>Refer to Setting Water System Mode section, ensure mode is set to normal or ECO gravity setting.</p>
<p>Unable to adjust or control temperature</p>	<p>Reversed inlet water supplies (i.e. Hot supply feeding cold inlet and vice-versa)</p>	<p>Ensure correct water supply to specified inlet connection.</p>

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.
	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).
	Communications issue	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.
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.
Temperature too low - Controller temperature ready display does not stabilise	Mixed water supplies	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.
	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.
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 if so 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.
	Outlets not configured (For models with display screen only)	Refer to User Guide: Settings Section - Configuring your Outlets.
Flow will not switch between outlets	Communications issue	<p>Check that 2m patch lead is connected between Aqualisa SmartValve™ and diverter.</p> <p>Ensure the correct 2m patch lead is connected - refer to separate Components List.</p>
	Outlets not configured (For models with display screen only)	<p>Turn off the power supply to the Aqualisa SmartValve™, leave isolated for at least 2 minutes. Reinststate power supply and then following instruction in the User Guide (Settings Menu) complete a factory reset, then proceed to Configure Outlets.</p>

For further information and advice contact Aqualisa Customer Helpline.

Scan for Installation Videos



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Intertek



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