The S Range

INSTALLATION AND USER GUIDE

S1 S2 S3

AQUALISA®

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SmartValve™

INSTALLATION GUIDE



PLEASE NOTE: For multi-outlet products, outlet pipework instructions need to be followed to ensure correct configuration. **Please refer to page 16.**

For pumped SmartValve™ products ensure the bleed valve commissioning instructions are followed, **refer to page 20.**

AQUALISA®

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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.

FOR UNPUMPED VARIANTS EARTHING IS NOT REQUIRED.

Always disconnect the appliance

from the supply before assembling, disassembling or cleaning.

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 65ºC. If the maximum hot water temperature is likely to rise above 65ºC then a Thermostatic Blending Valve must be used.

The Aqualisa® SmartValve™ is supplied factory pre-set at maximum temperature of 45ºC. The maximum temperature is fully adjustable to suit site conditions.

If adjusted, we recommend the outlet temperature is set to a **MAXIMUM** of 46ºC.

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 40ºC or where freezing may occur. The controller must not be installed in situations where

the ambient temperature is likely to fall below 5ºC or rise above 40ºC.

We do not recommend the use of a controller in steam therapy facilities.

The pumped SmartValve™ must be earthed. Cables must be protected by a suitably sized conduit (minimum recommended size 25mm) 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.

If the supply cord is damaged, it must only be replaced by the manufacturer or their accredited agent. The controller is supplied from a safety low voltage source.

The duty rating of the pumped products is 15 mins on, 45 mins off. 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 from a minimum static pressure of 10kPa ((0.1 bar) (1 metres head) (1.45psi)) 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)

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 500kPa ((5 bar) (72psi)) 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, 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 requirement for universal/ negative head pump.

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 universal/negative head type twin ended pump (works in both positive and negative head conditions) MUST be used.

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 OR POSITIVE HEAD PUMPS.

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.

Pipework must be pushed fully home into the supplied connections and pressure tested.

15mm pipework must be used to connect the product.

Pipework and connections should be protected using suitable lagging.

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, 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, 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**

Guarantee

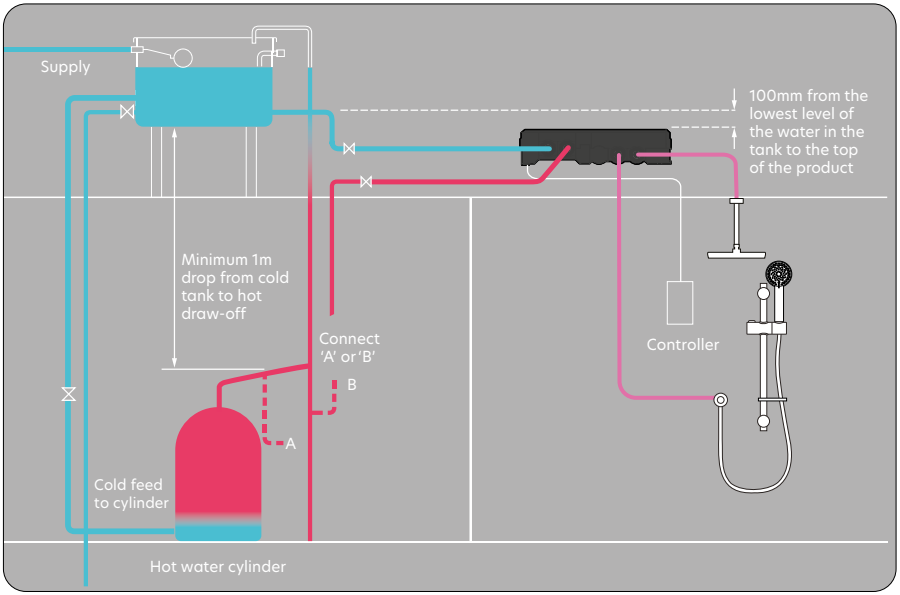
Aqualisa® products are supplied complete with a 1 year parts and labour guarantee that can be upgraded by registering the product with Aqualisa®.

See **www.aqualisa.co.uk/guarantee** for details.

System Layout Diagrams

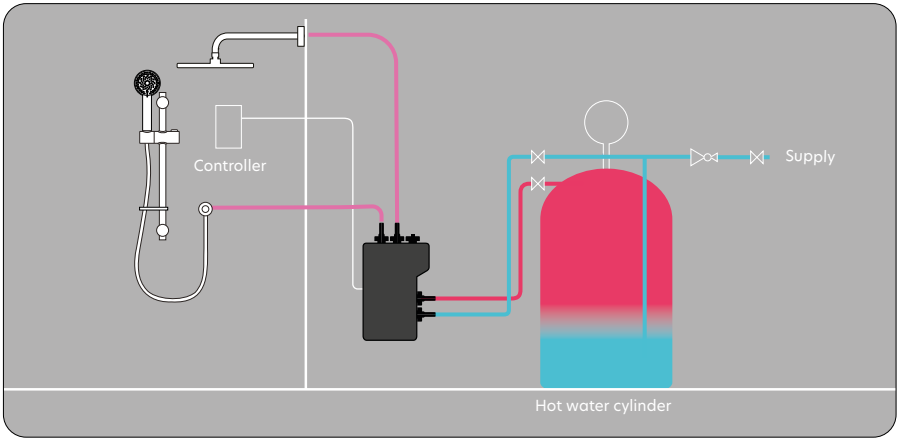
Typical gravity system installation

(compatible with pumped Aqualisa® SmartValve™)



Typical UHW system installation

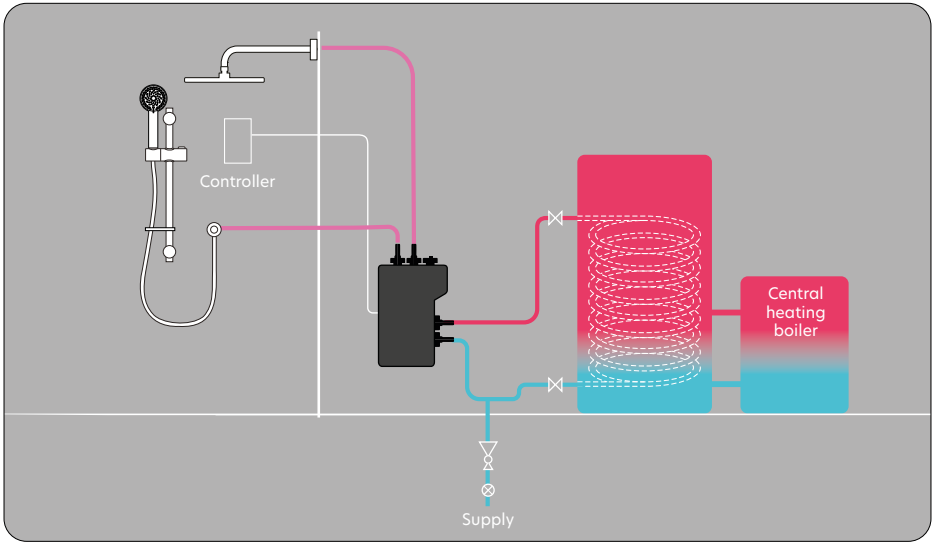
(compatible with standard Aqualisa® SmartValve™)



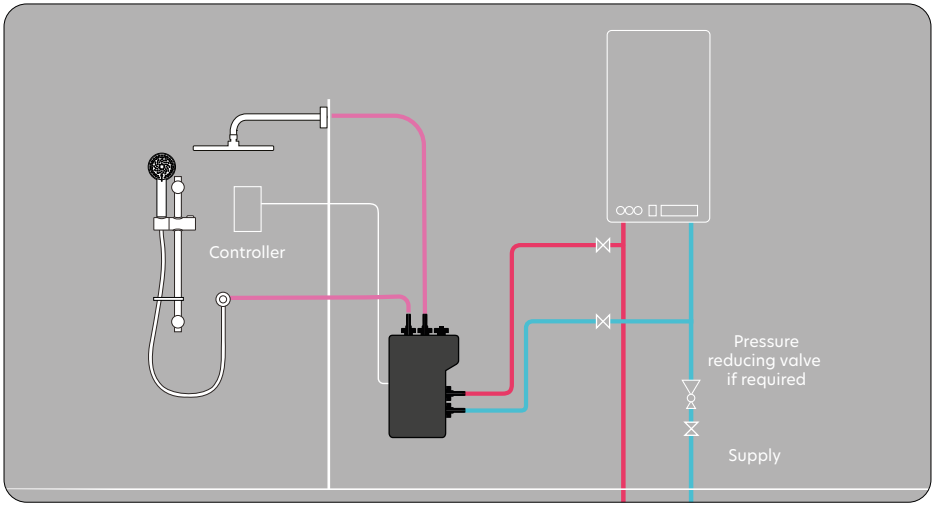
Dual outlet model shown for illustrative purposes only. Images not to scale.
(Single and triple outlet models also available).

System Layout Diagrams

Typical thermal storage unit system installation
(compatible with standard Aqualisa® SmartValve™)



Typical combination system installation
(compatible with standard Aqualisa® SmartValve™)

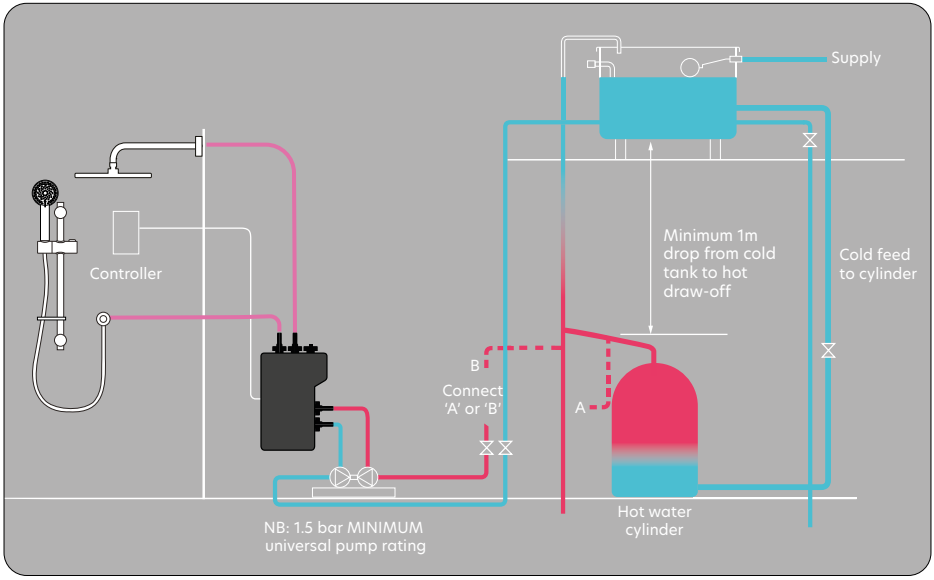


Dual outlet model shown for illustrative purposes only. Images not to scale.
(Single and triple outlet models also available).

System Layout Diagrams

Typical pumped system installation

(compatible with standard Aqualisa® SmartValve™)

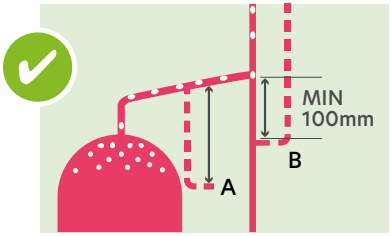


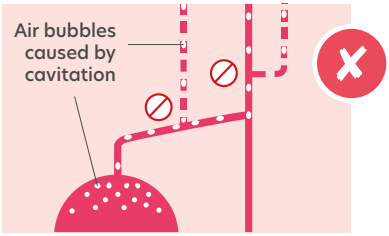
Dual outlet model shown for illustrative purposes only. Images not to scale.
(Single and triple outlet models also available).

Key Things To Know About Your Installation

FOR PUMPED SMARTVALVES

- The cold water storage cistern must be no less the 225 litres (50 gallons).
- Cold water draw off to be the opposite side of the float operated valve CWSC filling point.
- Ensure incoming cold feeding mains supply feeding the cold water storage cistern is a minimum of 1 bar and that the float operated valves fills the cistern at a sufficient rate.
- Ensure the SmartValve™ is located a minimum of 100mm below the bottom of the CWSC, as per diagram on page 9.
- Ensure no air is drawn into the system, the hot water draw off MUST BE TAKEN from point A or B as per diagram on page 9





- 22mm pipe work should be used on the inlets and to be reduced down to 15mm as close to the valve as possible to reduce pressure loss and help maintain flow rate.
- Avoid shared supplies.
- Ensure your CWSC fills efficiently (without obstructions in the float operated valve).
- Ensure cables are protected by conduit (minimum recommended size 25mm) or trunking to allow removal for services and maintenance.
- If replenishment of the cold water storage cistern is slow - consider setting the SmartValve™ to ECO mode, refer to page 18 (setting water system mode).

FAILURE TO INSTALL CORRECTLY CAN RESULT IN:

- Poor performance.
- Causing no/low flow, and the SmartValve™ to airlock.
- Invalidating the warranty.

⚠ Before You Start

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.

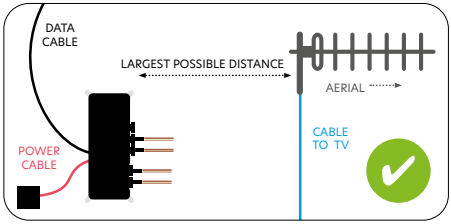
In addition to the guide below, it is essential that the important information section is read and understood and that you have all the necessary components before commencing installation.

Refer to the individual installation guides for reference.

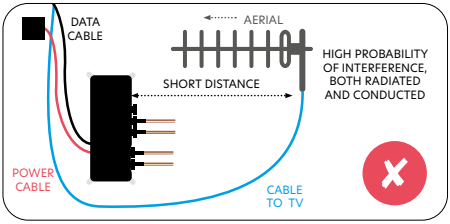
Digital TV Interference

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 page 14 for orientation.



Lowest probability of interference

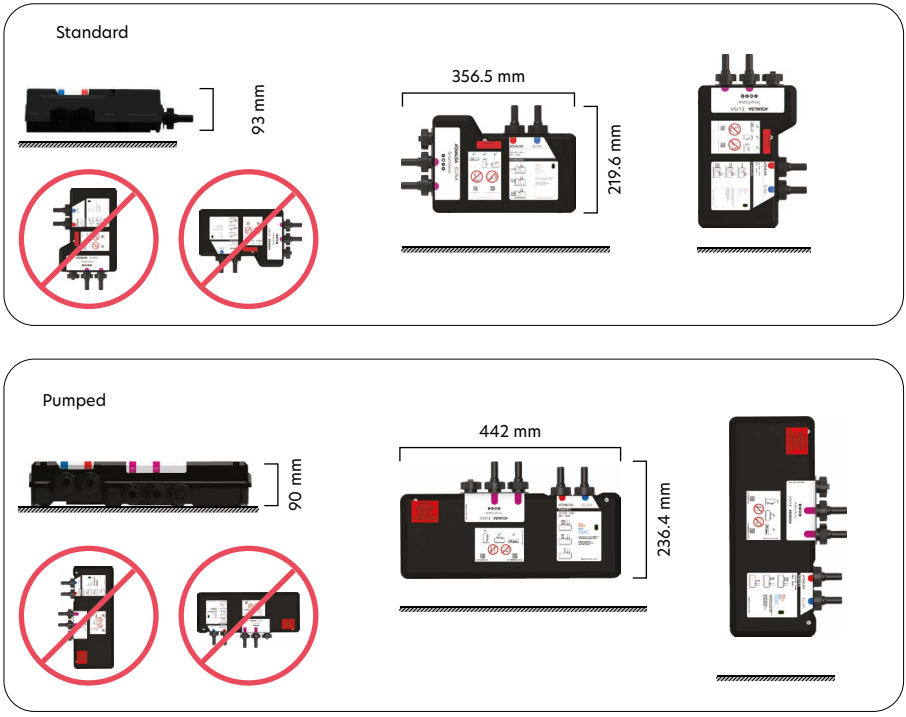


Layout which could cause problems

- 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.

Aqualisa® Smartvalve™

1. To ensure safe operation and installation of this product, the Aqualisa® SmartValve™ MUST be installed in one of the orientations shown.



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

For gravity fed installations, 22mm pipe work should be run as close to the Aqualisa® SmartValve™ as possible before reducing down to 15mm (see page 12).

Pipe work MUST be pushed fully home into the supplied isolation valves and pressure tested.



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™. 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™ as close to the controller as possible. These may be sited in the roof space (see important information section below) above the proposed shower site, in the airing cupboard or behind a fixed bath panel if more convenient. Bath panel must be removable for servicing purposes.

For information regarding protecting the Aqualisa® SmartValve™ 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™, the location should be where freezing cannot occur. Pipework and fittings should be suitably lagged to protect against freezing. Please refer to the system layout diagrams.

The Aqualisa® SmartValve™ MUST be sited in a position that is safely accessible for servicing and commissioning purposes. When fitted in a loft / roof space it MUST NOT be under the eaves, the route to, and around the Aqualisa® SmartValve™ must be boarded to ensure a safe working environment.

The distance between the Aqualisa® SmartValve™ and the controller must be within the range of the data cable supplied.

4. Place the Aqualisa® SmartValve™ on a solid mounting surface, and place the fixing feet into suitable positions. Mark, then drill and prepare suitable fixings and secure to the mounting surface.



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. Ensure that the isolation valves are connected to the outlet spigots, with the arrows correctly aligned according to the direction of flow.

Run the pipes from the outlets of the SmartValve™ through to the proposed siting for the shower outlets, depending on the system chosen.

SmartValve™ Outlet	S1 & S2 Controllers						S3 Controller
	Dual Outlet combination Handset and Drencher		Dual Outlet combination Handset and Bathfill		Triple Outlet combination Handset, Drencher, and Bathfill		Outlet connections can be plumbed to suit, then refer to controller on-screen set-up instructions.
Outlet 1	Handset		Handset		Handset		
Outlet 2	Drencher		Bathfill		Drencher		
Outlet 3	NA		NA		Bathfill		

The outlets should be plumbed according to the table above, so that the icons on the controller match the physical outlets. For the majority of installations, we suggest that your primary selected outlet be connected to outlet 1, this may be influenced by the use of a remote, the Aqualisa® app or Smart speaker to start the shower.

For information regarding primary outlet selection using remote please refer to page 9 in the wired remote guide and page 7 in the wireless remote guide.

To reconfigure outlets please connect to the Aqualisa® app.

SmartValve™ Setup

Before any electrical adjustment is attempted, the electricity supply must be turned off at the mains switch. Electrical works must be undertaken by a competent person and installed in accordance with the current IET WIRING REGULATIONS (BS 7671). All copper pipe work must be cross-bonded and connected to a reliable earthing point.

The standard SmartValve™ is double insulated and therefore has no earth wire.

1. Power supply to the pumped SmartValve™ MUST be earthed and all SmartValves™ must 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 3 amp 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.

The pumped SmartValve™ 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™ then carefully tilt the lid up and off the location lugs, and set the lid aside.

Plug in the transparent connector (RJ45) of the low voltage, data cable into either of the two sockets 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.



A secondary data cable socket has been provided for use with a wired remote. Please refer to the Wired Remote Installation Guide.

Note: 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 provided for water system settings.



SETTING WATER SYSTEM MODE

Shower Mode



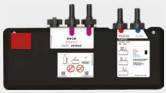
When changing from a Gravity water system to a Mains fed (e.g. Combination boiler), the complete SmartValve™ MUST be replaced - i.e. from pumped to a standard (unpumped).

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.

For most installations the Shower Mode will be utilised, for further information see page 19:

- Water system mode table
- Bath mode section

SETTING WATER SYSTEM MODE

Water System (Refer to diagrams p7-9)	Valve Type	Setting
Combination Boiler Ensure setting is changed from factory default	Standard Aqualisa® SmartValve™ 	**Combi** Factory default will be Normal; this setting must be changed to Combi for temperature stability and optimum performance
Balanced High Pressure	Standard Aqualisa® SmartValve™ 	**Normal** (factory default) or Eco
Separately Pumped Gravity	Standard Aqualisa® SmartValve™ 	**Normal** (factory default) or Eco
Gravity Fed	Pumped Aqualisa® SmartValve™ 	**Normal** (factory default) or Eco

Bath Mode



See above table for water system and MODE setting. When set to BATH, the following features are activated:

- The run-time is 12 minutes, once reached the flow will automatically shut-off.
- If you restart the flow of water within 1 minute of the automatic shut-off, the flow will only run for a further 1 minute before shutting off again.
- If the output temperature is 10 °C or less than the demand temperature (as set on the controller), the shower will only run for 1 minute (attempting to reach the chosen temperature before automatically shutting off). This prevents the bath being filled with water cooler than desired.
- For some controllers this will set the default flow rate to Maximum and will prevent the user from changing the flow rate.

Commissioning Instructions and Instructions to Clear An Airlock



If you observe symptoms of low/no flow of water, and can hear the pump running it's an indication that an airlock is present.

As part of the set up for your gravity fed system, you will need to go through the commissioning process, this will vary depending on the location of your SmartValve™. Scan the QR codes for videos that will assist you with that process, alternatively follow the instructions in this section.

Setting your controller to the highest flow rate can help in most cases - refer to user guide for more information.

Video instruction available scan QR code

Commissioning Instructions

Before starting the shower

1. Ensure all plumbing isolation valves are fully open and the cold water storage tank is 100% full.
2. Set the controller to full cold temperature and select the maximum flow rate (refer to controller guide for instruction).

Adjustable head (handset and hose)

- Remove handset from shower hose and lay the open end of the hose in the bottom of bath or shower tray.

Drencher head (ceiling or wall mounted)

- Remove the drencher head from the fixed arm for an unrestricted flow.

Starting the shower

1. For multi-outlet models ensure that the lowest outlet is selected – in most cases this will be the flexible hose or the bath filler.
2. Wait for the system to prime (this can take up to 5 minutes, depending on type of installation) and a steady stream of water to flow, then start to increase the temperature.
3. With the SmartValve™ now primed, where applicable divert to the other outlets, again making sure there is a strong and steady stream of water flowing.
4. Turn the shower off.

Possible Airlock

If you observe symptoms of low/no flow of water, it's an indication that an airlock is present and the instructions on the following page for clearing the airlock should be followed. In some cases, the procedure may need to be repeated.

Clearing an Airlock - Method 1

Using the bleed valve

Please note that following this process will NOT invalidate the warranty.

Model shown in video is for illustrative purposes.

Before starting the shower

- Ensure all plumbing isolation valves are fully open and the cold water storage tank is 100% full.
- Check the bleed valve is in the closed position - see image in point 4.
- Adjustable head (handset and hose) - Remove handset from shower hose and lay the open end of the hose in the bottom of bath or shower tray.
- Drencher head (ceiling or wall mounted) - Remove the drencher head from the fixed arm for an unrestricted flow.

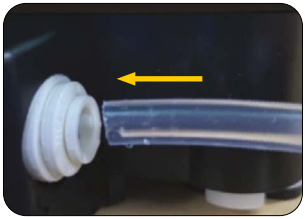
1. Turn on the power to SmartValve™.



2. Use a suitable tool to remove the 6mm blanking plug from the valve assy.



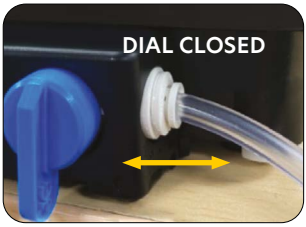
3. Fix the 6mm plastic tube (supplied) into the push-fit fitting of the bleed valve assembly.



Method 1 continued

4. Gently tug on the tube to ensure it is securely locked in.

   Note: Blue dial is in the CLOSED position.



5. Start the shower using the controller.

   Note: Some controllers start up at a default temperature, in these cases turn the temperature dial to fully cold after pressing start.



6. For controllers with a variable flow- set the flow to maximum (refer to the user guide for instructions).

7. The pump will begin running and lights on control flashing, however there may be little to no flow of water from the outlet.

8. Place a bucket, cup or suitable receptacle at the open end of the tube in preparation to capture the water during the bleeding process (note, lay the tubing low and as flat as possible).

9. Rotate the blue dial a 1/4 turn (counterclockwise), to open the bleed valve, leave the valve open until you start to see a steady flow of water from the end of the tube.

   Note: If the flow fails to remain constant, close the valve briefly, and re-open.



The outlet may dribble and splutter for a short period whilst any remaining air is cleared by the pump before a strong steady flow of water is present. Please allow up to 2 minutes for a steady flow to appear.

If the flow still hasn't improved, then shut the bleed valve and continue with the steps in **Method 1.1**.

Method 1 continued

10. If happy with the flow from the tube, close the valve and check there is a good constant flow from the shower outlet.
11. Once the flow has started through the shower outlet, rotate the dial on the controller to gradually increase the temperature until you are satisfied the flow is steady across the whole temperature range.
12. If multi-outlet model, check the flow through the other outlets by diverting with controller.
13. Turn the shower off.
14. Remove the tubing from the fitting and store safely along with the product installation and user guides.
15. Re-fit the supplied blanking plug into the push-fitting of the bleed valve



Clearing an Airlock - Method 1.1

Using the bleed valve

1. Following on from point 9, Method 1, ensure the bleed valve is closed.
2. While the shower is still running turn off the power supply to the SmartValve™ (DO NOT turn off at control, only at the power supply).
3. Ensuring the open end of the tube is still in the bucket/cup etc., open the bleed valve again.
4. Once there is a good steady flow from the tube, close the bleed valve.
5. Reinstate power to the SmartValve™.
6. Using the controller start the shower.

Continue by following steps 10-14 from Method 1.

Troubleshooting:

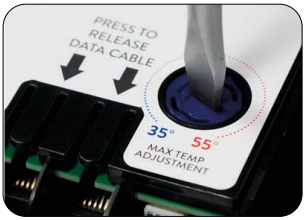
If there is still no / low flow try these steps:

- Set the temperature to mid-blend or full hot.
- Use the control dial to reduce the flow / slow the speed of the pump.

Maximum Temperature Preset Instructions

1. 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.



2. Reinstate the electrical supply to the Aqualisa® SmartValve™.

The benefits of your customer connecting their shower to the Aqualisa App

Why Connect?

By connecting the shower to the Aqualisa App during installation, you'll ensure your SmartValve™ has the latest version of firmware, which provides:

- ✓ Essential updates and bug fixes
- ✓ Improved performance
- ✓ Enhanced functionality
- ✓ Newest features

Even if you're not planning to use the app regularly, connecting is crucial for maintaining peak performance and reliability.

Quick & Easy Setup

Connecting is simple, please ask the end user to do the following on their own device:

1. Download the "Aqualisa" app in the App Store or Google Play.

Download on the App Store GET IT ON Google Play

2. Create an account.
3. Follow the step-by-step instructions to pair the shower with the app.
4. Accept any updates.
5. That's it - The shower is now ready to deliver its best!

Keep your Smart Shower up to date

To benefit from continuous performance improvements and enhancements, we advise customers to connect their shower to the Aqualisa App.

https://www.aqualisa.co.uk/smart-digital-showers

Scan QR code to learn more

AQUALISA®

Statement of Compliance

The Product Security and Telecommunications Infrastructure (Security Requirements for Relevant Connectable Products) Regulation 2023

Brand name: **Aqualisa & Elisa**
Product name: Smart Valve
Model(s): 1001253, 1001255, 1001259, 1001269, 1001271, 1001273
Description: Smart shower with internet connected control unit
Batch: all date codes
Defined support period (correct as of when 1st supplied): 5 years up to June 2030
Manufacturer: Aqualisa Products Ltd, The Flyers Way, Westerham, Kent, TN16 1DE

This declaration of conformity is issued under sole responsibility of the manufacturer in accordance with the following legislation:

- PSTI Security Requirements for Relevant Connectable Products Regulations 2023

Conformity has been assessed to schedule 2 of the PSTI regulations 2023 has been demonstrated by using the following standards:
ETSI EN 303 645 V2.1.1: All mandatory provisions
ISO/IEC 29447 2018: Sections 6.2.2, 6.2.5 and 6.5 to cover reporting of vulnerabilities.

Declaration
I declare that, as the Authorised Representative of the Manufacturer, the product specified above conforms to the stated directives and standards.

Date: 19/06/25

Signed: Mussab

Name: Mussab Mohamed

Position: Product Compliance Engineer

Postal address: Aqualisa Products Ltd, The Flyers Way, Westerham, Kent, TN16 1DE

Troubleshooting

Symptom	Possible cause	Action
Controller LEDs 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 LEDs 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 LEDs flashing	Loss of communications	Check data cable connections are making good contact and are fully inserted.
Pump noisy and low / no flow	Air lock (for Gravity fed systems only)	Refer to pages 12 and 20 to reduce risk of airlock and instructions to clear an airlock.
Pump noisy and low / no flow	Restriction in waterway	Check for debris in the inlet filters of the Aqualisa® SmartValve™.
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). If stand-alone pump is being used, ensure this is a universal / negative head type (refer to page 7).
	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.
	Mixed water supplies	For standard Aqualisa® SmartValve™ - ensure hot and cold supplies are from the mains water supply.

Symptom	Possible cause	Action
Low / no flow continued	Incoming mains water pressure or flow too low	After confirming that the filters are clear, check with the local water authority.
	Connectors and water supply feeds to the Aqualisa® SmartValve™ are restrictive	Refer to IMPORTANT INFORMATION sections: Connections and Pipe sizing. See Key Things to Know About Your Installation on page 12.
	Separate, stand alone pump not activating (Standard Aqualisa® SmartValve™ only)	Ensure sufficient flow to activate the flow switches of the pump. For all models (single and multi-outlet) a twin ended universal (negative head) pump must be used. Refer to IMPORTANT INFORMATION section. See special notes on page 7.
	Incorrect setting on Logic Module of Aqualisa® SmartValve™	A Pumped Aqualisa® SmartValve™ must not be fitted to a Combination boiler. If Combi mode is selected, the Pumped SmartValve™ will enter a failsafe mode.
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.
Temperature too low	Low hot water temperature	Check that domestic hot water temperature is a minimum of 55ºC for stored water and 50ºC for combination boilers.
	Logic Module temperature setting too low	Refer to section: Maximum Temperature Preset Instructions (page 25).

Symptom	Possible cause	Action
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)	Refer to page 20 commissioning instructions and reduce risk of airlock and instructions to clear an airlock.
	Hot water temperature too high	Ensure hot water supply temperature is below 65ºC (minimum 55ºC for stored water and 50ºC 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 - 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)	Outlets not configured (For models with display screen only)	Refer to User Guide: Settings Section - Configuring your Outlets.
	Outlets not configured (For models without display screen)	Ensure water supplies are plumbed in correctly see diagram on page 16. If outlet selected doesn't match outlet button - use app to re map outlet selection.

Smart Controllers

INSTALLATION GUIDE

S1 S2 S3

AQUALISA®

Contents

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Using the Controller (S1 and S2)	39
Controller Commissioning and Checklist (S1 and S2)	39
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Using the Controller (S3)	40
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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.

FOR UNPUMPED VARIANTS EARTHING IS NOT REQUIRED.

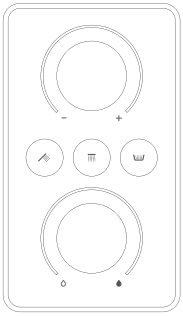
Always disconnect the appliance from the supply before assembling, disassembling or cleaning.

The controller must be installed in an accessible location for servicing and maintenance. It must not be installed in situations where either the ambient temperature is likely to exceed 40ºC or fall below 5ºC.

We do not recommend the use of a controller in steam therapy facilities. Cables must be protected by a suitably sized conduit (minimum size recommendation 25mm) 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.

The Controllers

S1



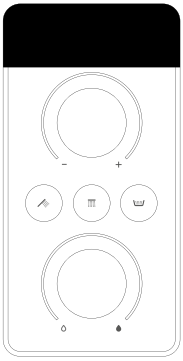
Temperature control

Outlet selection Buttons

The symbols on the controller buttons indicate outlet operation

Flow control

S2



LCD display

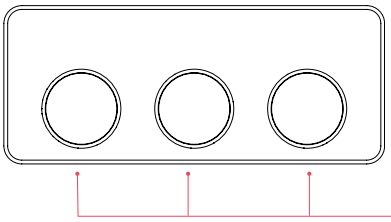
Temperature control

Outlet selection buttons

The symbols on the controller buttons indicate outlet operation.

Flow control

S3



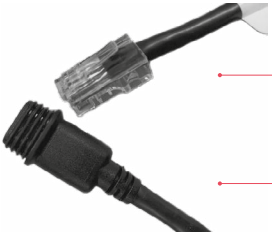
Multi-function LCD display

Temperature control dial
Outlet selection dial
Flow control / Profile selection dial

NOTE: The S3 Controller dial feature allocation is dependent on the number of outlets and whether the controller has been connected via the app.

The Controllers

- ✓ Make sure the position of the controller is at a suitable height so all users can access and easily see it.
- ✓ Avoid grout lines where possible and ensure good surface contact with the seal of the mounting bracket.
- ✓ Ensure the data cable is the correct way round as both ends differ.
  - Data cables must be protected by suitable sheathing/conduit (minimum size recommendation 25mm) in the event of servicing, take care not to pierce this.



- ✓ Ensure you use fixings supplied to eliminate poor fitting and invalidating the warranty. Use a 6mm drill bit to prepare the fixings.
- ✓ Ensure the power supply to the SmartValve™ is switched off before connecting or removing the controller.
- ✓ If your controller has a proximity sensor (S2 and S3 only), refer to '**Using the Controller**' on pages **40 and 41**, or individual user guides for more information.
- ✓ Controllers can only be mounted to adequate wall tiles/mounting surfaces, severe textures could cause insufficient sealing and potential damage to property/users.

Mounting the Controller

1. Remove the controller mounting bracket from the box and use as a guide for screw holes and data cable entry.



Controller mounting bracket

Bracket for S1 and S2 only



S3 bracket

MOUNTING BRACKET ORIENTATION

Images depict the correct orientation for installation. Fixing points shown in red.

2. Place the mounting bracket on the wall in the desired location for the controller and mark the central position for the data cable. Remove the mounting bracket and drill the 25mm hole.

Ensure there is sufficient clearance from any obstructions for the data cable to sit freely without pressing against any pipework, studding, brickwork or any other obstructions in the wall.

3. Place the mounting bracket back on the wall and mark two of the three fixings for S1 and S2 controllers. Mark up two of the four for S3 controller, then drill and prepare the wall fixings for the mounting bracket. Use a 6mm drill bit to prepare the fixings.

Ensure that the large hole for the data cable is centred over the hole in the wall and that wall edges do not obscure any of the hole through the bracket.
Note: Do this before marking and drilling the final wall fixings.

IMPORTANT: All fixing points must be used and silicone applied in the groove on the rear of the mounting bracket (see point 6).

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.

Mounting the Controller continued

4. Place the mounting bracket back on the wall and mark the third fixing for S1 and S2 controllers and third and fourth for S3 controller, then drill and prepare the final fixings for the mounting bracket (use level to make sure it's straight).
5. Feed the controller connection (USB-C) end of the data cable through the hole in the mounting bracket, ensuring enough length to correctly connect it into the back of the controller. The data cable connection must not be twisted, stressed or bent as it is located in the wall.

6. Apply a bead of silicone on the rear of the mounting bracket (green shaded section of image shown), and fix to the finished wall surface.

   (The transparent connector (RJ45 plugs into the SmartValve™. Refer to the SmartValve™ installation instructions for more details.)

   S3 controller bracket also has a silicone bead channel.



Silicone bead placement

7. Remove the protective paper liner from the foam gaskets on the front of the mounting bracket and the rear of the controller.

   Plug the USB-C end of the data cable into the back of the controller and ensure it is fully inserted and engaged.



Data cable connection

Mounting the Controller continued

8. For all controllers, place the controller onto the mounting bracket, then press firmly against the wall whilst pushing down until the controller clicks into place. Check it is securely mounted, ensuring the data cable does not clash with any obstructions, cannot be removed easily, and all four hooks have engaged.

The controller must be flush to the wall.

IMPORTANT: Ensure the plug remains fully inserted and free from strain when the device is mounted to the wall.



Controller Start-up (S1 and S2 only)

1. Turn on the electrical supply to the SmartValve™.
2. The controller lights will sweep up and down as it goes through the set-up/ configuration sequence.
   S2 controller will also show the Aqualisa® logo on the display.
3. The controller is now ready to operate.

Using the Controller (S1 and S2 only)

1. **Turn the shower on:** press the top dial, bottom dial or any of the outlet buttons (S2 has a proximity sensor range of approximately 2m, so as you approach or move your hand towards it, the display wakes up and is ready to use).

   Note: The temperature and flow can be adjusted prior to starting the shower.
2. Rotate the top dial to adjust the temperature (S2 controllers will show the temperature setting on the display). The indicators will pulse until the target temperature has been reached.
3. Rotate the bottom dial to adjust the flow of water. See special notes on **page 41**.
4. Press the outlet button/buttons to operate different showering outlets (dependent on configuration purchased).
5. **Turn the shower off**: press the top dial, bottom dial or the outlet button that is in use (S2 will show shower usage information on the display before powering off).

Controller Commissioning and Checklist

(S1 and S2 only)

- ✓ Buttons on the shower controller operate the corresponding outlets.
- ✓ Top dial operates temperature control.
- ✓ Bottom dial adjusts the flow of water. (See special notes on **page41**).
- ✓ The dials can also be pressed to start/stop the shower.

Controller Start-up (S3 only)

1. Turn on the electrical supply to the SmartValve™.
2. The display will power on and the Aqualisa® logo will be displayed, follow the on-screen instructions to set-up the controller.
3. The controller is now ready to operate.

Using the Controller (S3)

1. S3 has a proximity sensor range of approximately 2m, so as you approach or move your hand towards it the display wakes up.
2. Rotate the dial below each selection displayed to adjust its value:
   - **Rotate the flow dial between 10% and 100%**. See special notes on page 41.
   - **Rotate the outlet dial** (on multi-outlet controllers only). The selected outlet will be displayed with a subtle glow.
   - **Rotate the temperature dial**. This will adjust the temperature to the amount displayed. The indicator will pulse until the target temperature has been reached.
3. (Single outlet variant only) Rotate the profile dial to choose between different experiences to suit the user.
4. **Turn the shower on/off:** press any dial.

Controller Commissioning and Checklist

(S3 only)

✓ Screen displays text and digits clearly.

✓ Pressing a dial starts/stops the shower.

✓ Dials adjust their corresponding feature when rotated.

Note: For flow, see troubleshooting on **page 42**.

Special Notes Regarding Flow

(All Controllers)

Rotate the flow dial to choose your flow level; for S2 and S3 controllers the screen will show a value between 10% and 100%.

Be aware that:

- On pumped SmartValves, flow and pressure increases or decreases in steps as the pump speed changes.
- Depending on your plumbing system and the time of year, you may not always feel a change in flow, even if the percentage value changes (S2 and S3) or the dial is fully rotated.
- The real flow rate can vary and may not exactly match the percentage shown (S2 and S3).

Troubleshooting

Symptom	Possible cause	Action
Controller backlight is red at startup and temperature dial flashes red	Data cable is not correctly inserted at both ends	Check data cable is fully inserted at both ends and that it is not pulled out during mounting of the controller.
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™.
	Data cable not plugged in or loose	Check data cable connection into SmartValve™ and the controller.
Pump noisy and low / no flow	Restriction in waterway	Check for debris in the inlet filters of the Aqualisa® SmartValve™.

Symptom	Possible cause	Action
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. Follow the commissioning instructions, utilising the bleed valve to prime the pump and clear the airlock.
Flow does not change when adjusted with dial	Combination boiler output does not meet the flow demand	Check with boiler manufacturer for specification details.
	SmartValve™ is set to ECO mode	Refer to Setting Water System Mode section in the SmartValve™ Installation Guide.
	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.

Symptom	Possible cause	Action
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.
	Mixed water supplies	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™, and fixed head connection washer.
	Incoming mains water pressure or flow too low	After confirming that the filters are clear, check with the local water authority.
	Connectors and water supply feeds to the Aqualisa® SmartValve™ are restrictive	Refer to IMPORTANT INFORMATION sections: Connections and Pipe sizing.

Symptom	Possible cause	Action
Low / no flow	Separate, stand alone pump not activating (Standard Aqualisa® SmartValve™ only)	For all models (single and multi-outlet) a twin ended universal (negative head) pump must be used. Refer to IMPORTANT INFORMATION section.
	Incorrect setting on Logic Module of Aqualisa® SmartValve™	Please refer to SmartValve™ Installation Guide. A Pumped Aqualisa® SmartValve™ must not be fitted to a Combination boiler. If Combi mode is selected, the Pumped SmartValve™ will enter a failsafe mode.
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.
Temperature too low	Low hot water temperature	Check that domestic hot water temperature is a minimum of 55ºC for stored water and 50ºC for combination boilers.

Symptom	Possible cause	Action
Fluctuating water temperature	Incorrect Aqualisa® SmartValve™ fitted	If hot water supply is from a combination boiler - the standard SmartValve™ MUST be fitted and logic module set to COMBI mode.
	Airlock in water supplies (for gravity fed systems only)	See “Air lock” in literature included with SmartValve™.
	Hot water temperature too high	Ensure hot water supply temperature is below 65ºC (minimum 55ºC for stored water and 50ºC 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.
Water flows from incorrect outlet (multi-outlet models only)	Outlets have not been plumbed in correctly	Outlets can be configured using the App, refer to our website (App section). If using the App is not an option, please contact customer services on 01959 560010.
	S3 - controller set-up configured incorrectly.	
S1 ONLY In the event that the dials are out of alignment with the light ring		Dials can be calibrated using the App, refer to our website (App section). The Aqualisa app maybe downloaded from www.aqualisa.co.uk/getourapp

Smart Shower Wired Remote

INSTALLATION GUIDE

AQUALISA®

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.

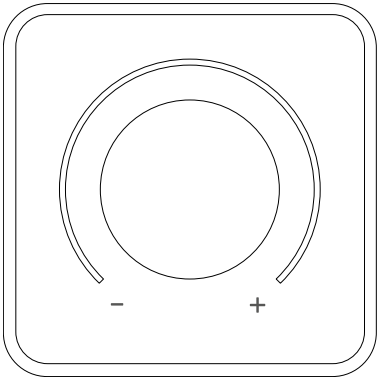
FOR UNPUMPED VARIANTS EARTHING IS NOT REQUIRED.

Always disconnect the appliance from the supply before assembling, disassembling or cleaning.

The remote must be installed in an accessible location for servicing and maintenance. It must not be installed in situations where either the ambient temperature is likely to exceed 40ºC or fall below 5ºC.

We do not recommend the use of a remote in steam therapy facilities. Cables must be protected by a suitably sized conduit (minimum size recommendation 25mm) 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.

Wired Remote

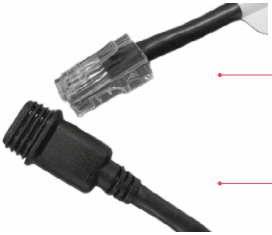


Control dial

- Push dial to turn shower On/Off
- Turn dial for temperature control
- Push and hold to divert between outlets on dual or triple outlet models.

1. Make sure the position of the remote is at a suitable height so all users can access and easily see it.

2. Ensure the data cable is the correct way round as both ends differ.
   - Data cables must be protected by suitable sheathing/conduit (minimum size recommendation 25mm) in the event of servicing, take care not to pierce this.



SmartValve™ connector (RJ45)

Controller connector (USB-C)

3. Ensure you use the fixings supplied to eliminate poor fitting and which may invalidate the warranty.
4. Ensure the power supply to the SmartValve™ is switched off before connecting or removing the controller or remote.

Mounting the Remote

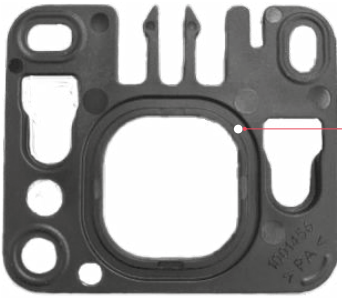
1. Remove the remote mounting bracket from the box and use as a guide for screw holes and data cable entry.



Front of bracket

Fixing points shown in red

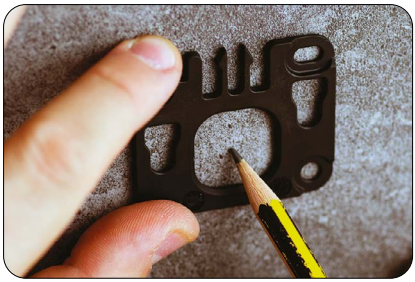
Note: Image depicts the correct orientation for installation.



Rear of bracket

Silicone can be applied in the groove. Recommended if remote in the wet area.

2. Place the mounting bracket on the wall in the desired location for the remote, orientation as shown in the image and mark the central position for the data cable. Remove the mounting bracket and drill a 25mm hole.



Ensure there is sufficient clearance from any obstructions for the data cable to sit freely without pressing against any pipework, studding, brickwork or any other obstructions in the wall.

Mounting the Remote continued

3. Place the mounting bracket back on the wall and mark two of the three fixings, then drill and prepare the wall fixings for the mounting bracket. Use a 6mm drill bit to prepare the fixings.

   Ensure that the large hole for the data cable is centred over the hole in the wall and that wall edges do not obscure any of the hole through the bracket, do this before marking and drilling the wall for the screws.

   a. The supplied screws must be used. If the supplied screws are not suitable for the mounting surface, use a screw of same size and head design. The screws must be non-corrosive.

4. Feed the USB-C connection end of the data cable through the hole in the mounting bracket, ensuring enough length to correctly connect it into the back of the remote.

5. Place the mounting bracket back on the wall and mark the third fixing, then drill and prepare the final wall fixing (use a level to make sure it's straight).



6. The RJ45 (clear) connection plugs into the SmartValve™. Refer to the SmartValve™ installation instructions for more details.

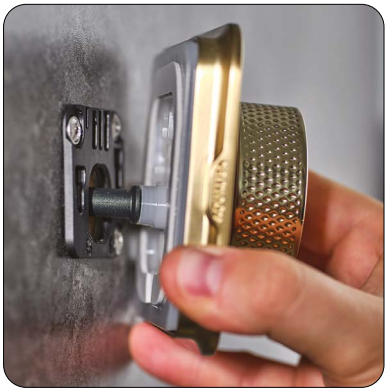
Mounting the Remote continued

7. Connect the data cable into the back of the remote. Ensure it's fully inserted and engaged. Remove the protective paper liner from the foam gasket on the back of the remote before assembly.





8. Place the remote onto the mounting bracket, then press firmly against the wall whilst pushing down until it clicks and locks into place. Check it is securely mounted, ensuring the data cable does not clash with any obstructions.





9. Ensure the plug remains fully inserted and free from strain when the device is mounted to the wall.

Remote Start-up and User Instructions

1. Turn the electrical supply to the SmartValve™ on so the remote can run through the start-up process.
2. The remote will show an illumination indication and is ready to use. If the backlight illuminates red, **refer to page 9, Trouble Shooting**.



3. Turn the remote dial to set the temperature of the shower.
4. Press the dial button to turn the shower on and off.





Using the Remote

1. To turn the remote on: use a short push on the button.
2. To divert / change outlet: Press and hold down the remote dial which will divert to the next outlet approximately every three seconds. Just release when the required outlet is running.
3. To adjust the temperature, rotate the dial.
4. To turn the remote off: use a short push on the button.

Note: You cannot change the diverting sequence and the remote will default to the previously used outlet to begin the cycle.

Example

A dual outlet divert cycle will sequence as:
Outlet 1, Outlet 2, then back to Outlet 1.

A triple outlet divert cycle will be:
Outlet 1, Outlet 2, Outlet 3, then back to Outlet 1.

Trouble Shooting

If the remote backlight is illuminated red, then this indicates a communications issue.

- Check the cable connection to the remote is fully pushed home.
- Ensure the cable or connector is not snagging on tiles, plasterboard etc within the wall, the 25mm hole (as per point 2, page 5), should be all the way through.

Smart Shower Wireless Remote

INSTALLATION GUIDE

AQUALISA®

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.

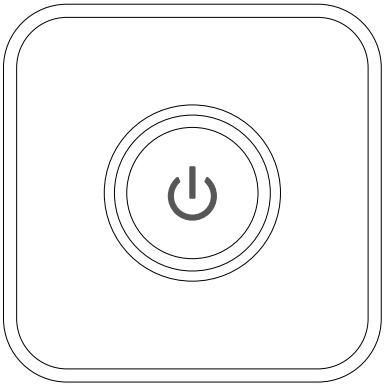
FOR UNPUMPED VARIANTS EARTHING IS NOT REQUIRED

Always disconnect the appliance from the supply before assembling, disassembling or cleaning.

The controller must be installed in an accessible location for servicing and maintenance. It must not be installed in situations where either the ambient temperature is likely to exceed 40ºC or fall below 5ºC.

We do not recommend the use of a controller or remote in steam therapy facilities. 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.

Wireless Remote



Control button
- Press and hold to pair
- Press to turn shower On/Off

1. Make sure you charge the remote prior to use.
2. Make sure the position of the remote is at a suitable height so all users can access and easily see it.
3. Ensure you use the fixings supplied to eliminate poor fitting and which may invalidate the warranty.

The remote control contains a non-removable battery. If the battery requires replacement, please contact Aqualisa® Customer Support. The remote must be returned for servicing, where the battery will be replaced or the remote exchanged, depending on its condition.

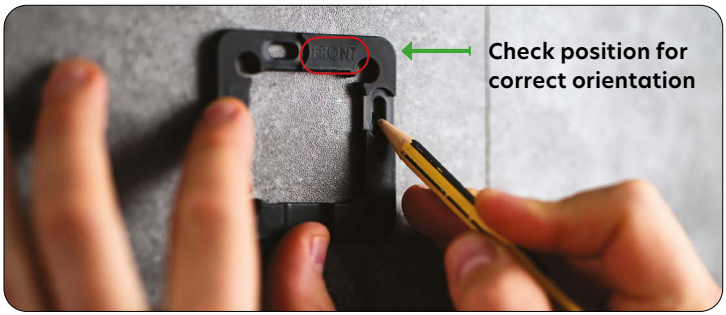
- The battery must be removed from the control before it is scrapped. (Please return to Aqualisa®.)
- The control must be disconnected from the supply mains when removing the battery.
- The battery must be disposed of safely. (Please return to Aqualisa®.)

If a new battery is required, please contact Aqualisa® customer support, we will request return of your remote to Aqualisa®. Upon receipt, we will assess the condition and either replace the battery or issue a replacement remote.

It takes approximately 180 minutes to fully charge the remote. Please use a USB-C cable to allow you to charge the remote with a separate USB compliant charger (not included) or through a PC's USB port.

Mounting the Remote

1. Remove the remote mounting bracket from the box and use as a guide for screw holes.
2. Place the mounting bracket back on the wall (see note below) and mark one of the three fixings, then drill and prepare the wall fixings for the mounting plate.
   a. The supplied screws must be used. If the supplied screws are not suitable for the mounting surface, use a screw of same size and head design. The screws must be non-corrosive.



Note: Bracket orientation. The bracket needs to be in a specific orientation. Ensure the wording "FRONT" is positioned top right and arrows on the sides are pointing up.

3. Place the mounting bracket back on the wall (see note below) and mark the second and third fixing, then drill and prepare the wall fixings for the mounting plate (use a level to make sure it's straight).
4. Now that the mounting bracket is secured to the wall, place the remote on it (the magnetic attachment should click into place).





Pairing

1. Make sure you charge the remote prior to use.
2. Hold the remote up to the controller faceplate.
3. Press and hold the remote button for about five seconds.
   a. The main controller will illuminate its control knob in blue.
   b. Press the control knob to confirm pairing.
4. Once paired, the lights will flash twice.
5. Press the remote to turn the shower on and off.



Using the Remote

1. **To turn the remote on:** use a short push on the button.
2. **To divert** you will need a long press until and release on button to select the next outlet. For example, a dual outlet will sequence as 1-2-1 and a triple outlet will be 1-2-3-1.
3. **To turn the remote off:** use a short push on the button.

Note: You cannot change the diverting sequence and the remote will default to the previously used outlet to begin cycle.

Bath Overflow Filler

INSTALLATION AND CARE GUIDE

AQUALISA®

IMPORTANT INFORMATION

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 Customer Helpline.

The bath overflow filler is suitable for baths up to a maximum thickness of 24mm.

Components





If required for larger baths, a 900mm waste pipe conversion kit is available from the Customer Service department, part number 477502.

Please contact our Customer Helpline on **01959 560010**.

Bath Overflow Filler Installation

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. Connect the bath waste to a suitable trap (not supplied). Note: for some styles of bath the rubber washer may be too thick. In such cases the washer can be removed and a suitable sealant used as an alternative.



Bath Overflow Filler Installation

continued

5. 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.



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



7. Remove the relevant inlet blanking plug and attach the flexible hose to the blended inlet connection.

Note: The blanking end utilises a fibre washer that must be used to guarantee a watertight seal.



8. 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.

Once the shower valve has been commissioned, turn on and check for leaks.

Waste Pipe Extension Kit Installation

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), then re-fit the waste assembly.

Note: the waste pipe may need to be softened by running it under hot water, to assist in sliding over the outlet.



Caring for your Product



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).

General Cleaning

Cleaning

Use a soft cloth and washing up liquid.

The bath 'click clack' waste plug mechanism 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.



DO NOT USE ABRASIVE CLEANERS

Adjustable Shower Kit

INSTALLATION AND CARE GUIDE

AQUALISA®

IMPORTANT INFORMATION

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The kit is supplied with universal fixings intended to secure it to a suitable wall.

Components



Rail end caps



Screw pack



Handset holder



Rail

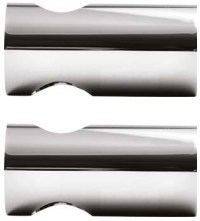


Brass grub screw



Rubber grommet

Hose restraint



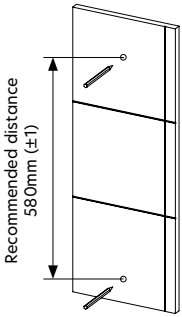
Rail brackets

Handset and hose purchased separately

Rail Kit Installation

1. To fit the rail kit, using a level, prepare two fixing holes up to a maximum of 620mm apart.

Note: the rail kit supplied utilises floating brackets that can be positioned to suit existing screw holes on retrofit installations.



2. Secure a rail bracket to the top fixing point on the wall using the supplied fixings (if suitable).



3. Depress lever and slide handset holder over rail assembly until it is approx 1/2 way down the rail.

Carefully slide the hose restraint (gel hanger) onto the rail under the handset holder.

Tip: use hand soap or washing up liquid for ease of sliding the hose restraint onto the rail.

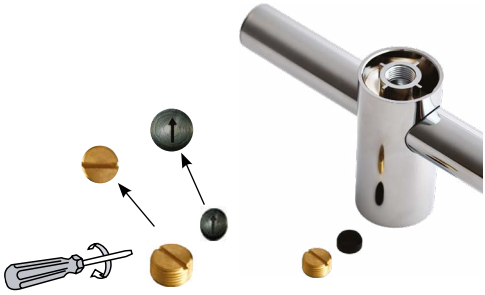
Note: The handset holder must be placed in the orientation as shown, with the holder on the right-hand side of the rail and the release lever pointing down.



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.

Rail Kit Installation continued

4. Slide the rail assembly up, and through the top rail bracket then insert the rubber grommet ensuring the directional arrow is facing out and pointing straight up or down. Temporarily secure into place with the brass grub screw.



5. Secure a rail bracket to the bottom fixing point using the supplied fixings (if suitable).

6. Loosen the brass grub screw of the top rail bracket and slide the rail down till it passes through the bottom bracket. Once in position, tighten the top bracket grub screw, then insert the rubber grommet and secure the grub screw into the bottom bracket.

7. Lining up the key-ways of the cover cap and bracket, firmly press the cover caps into position.

8. Ensuring the hose washer is in the correct position; attach the hose to the wall outlet.



RUN THE SHOWER FOR A FEW SECONDS TO CLEAR ANY DEBRIS AND TO CHECK FOR ANY LEAKS

9. Attach the shower handset to the hose and place the handset into the holder.

Caring for your Product



DO NOT USE ABRASIVE CLEANERS

It is imperative that de-scaling 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. Your product can be cleaned using only a soft cloth and washing up liquid.

Fixed Arms For Drencher Heads

INSTALLATION AND CARE GUIDE

AQUALISA®

IMPORTANT INFORMATION

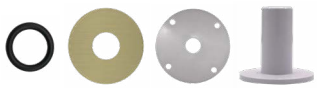
This product must be installed by a competent person in accordance with the relevant Water Supply Regulations. Prior to installation, ensure all literature supplied with this product is read and understood. We have taken great care to ensure that this product reaches you in perfect condition, however, should any parts be damaged or missing please contact your point of purchase. If you require assistance, please contact the Customer Helpline.

The wall mounted shower arm is supplied with universal fixings intended to secure it to a suitable wall. The Easy Fit ceiling mounted arm is supplied with screws for fixing the product to a noggin.

A NOGGIN MUST BE USED AS PART OF THIS INSTALLATION.

Push Fit Wall Mounted Components







Drencher Head
supplied/purchased separately



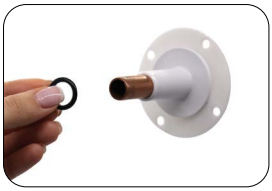
Assembled model shown
for illustrative purposes

Push Fit Wall Mounted Installation

1. Run a 15mm outlet pipe from the SmartValve™ 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.

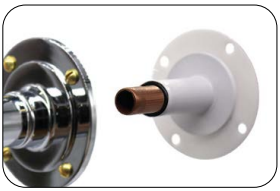
   Note: the fixing bush contains a gripper ring and once fitted cannot be removed by pulling. If damaged or compromised, please contact the Customer Helpline for a replacement.

6. Fit the 15mm 'O' ring against the end of the fixing bush. Lubricate the 'O' ring using a suitable silicone based lubricant.



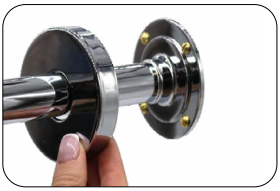
The 'O' ring must be positioned on the 15mm pipe flush to fixing bush, not onto the fixing bush shaft.

7. Refit the shower arm and secure it to the wall using the screws provided (if suitable).

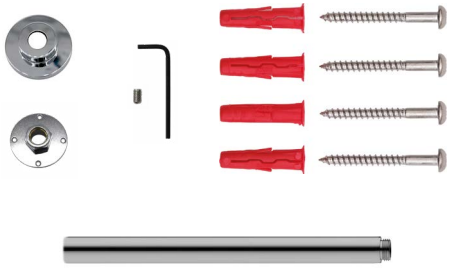


Run the shower for a few seconds to clear any debris and to check for any leaks

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



Easy Fit (450mm) Ceiling Mounted Components



Drencher Head
supplied/purchased separately



Assembled model shown for illustrative purposes

Easy Fit (450mm) Ceiling Mounted Installation

1. Run a 15mm outlet pipe from the SmartValve™ 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.

Easy Fit (450mm) Ceiling Mounted Installation continued

3. Drill a hole (minimum Ø28mm, maximum Ø40mm) 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 the coating.



8. Connect the pipe work from the SmartValve™ 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 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.

Caring for your Product



DO NOT USE ABRASIVE CLEANERS

It is imperative that de-scaling 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. Your product can be cleaned using only a soft cloth and washing up liquid.

Cleaning the Drencher Head

To reduce the need for chemical de-scaling 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 de-scale the shower head can affect the internal seals and may affect the warranty. Should de-scaling of the head using a cleaning agent become necessary, remove the shower head fully and immerse in a mild proprietary de-scaler (e.g. vegetable based or plain white vinegar).

Handsets and Drencher Heads

INSTALLATION AND CARE GUIDE

AQUALISA®

Handsets

Connecting the handset to the hose

Ensure the hose washer is in the correct position then tighten the thread into the hose, taking care not to over-tighten.

Multi-mode handsets - selecting the desired spray pattern

Firmly press the button located below the spray plate to select one of the 3 spray patterns.

If the button is not fully pressed then water will flow from two spray modes, the handset button will require a full, firm press to revert back to just one mode.

OR

Twist the top half of the wand handset left or right to adjust spray pattern.





Drencher Heads

Removing and attaching the drencher head

Use a suitable spanner, or a tool with smooth jaws to loosen the connection to the fixed arm, then continue to undo by hand; this is done in a counter clockwise direction.

When re-fitting, ensure the rubber washer is correctly positioned and that the mesh filter is clear of debris; take care not to over-tighten.

Drencher Heads continued

Adjusting the angle

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.

Note: do not force the angle of the head beyond its natural stopping point.



Caring for your Product

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 drencher heads. 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.

Cleaning the Shower Heads

To reduce the need for chemical de-scaling 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 de-scale the shower head can affect the internal seals and may affect the warranty. Should de-scaling of the head using a cleaning agent become necessary, remove the shower head fully and immerse in a mild proprietary de-scaler (e.g. vegetable based or plain white vinegar).

DO NOT USE ABRASIVE CLEANERS

Wall Outlets

INSTALLATION AND CARE GUIDE

AQUALISA®

IMPORTANT INFORMATION

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Some kits are supplied with universal fixings intended to secure it to a suitable wall.

Components

Push Fit Models



Standard Wall Outlet



Combined Wall Outlet and Docking Station



Gripper Ring



Wall Spacer



Screw Pack

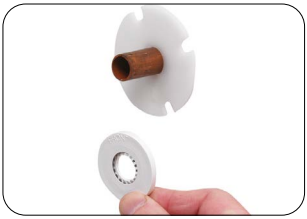
Wall Outlets Installation

1. Ensure the finished wall surface is even, prepare pipework from the SmartValve™ 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.

We recommend applying a suitable sealant around the pipework to stop water entering the wall.

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

   Should the gripper ring become damaged or compromised, please contact the Customer Helpline for a replacement on 01959 560010.



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 de-burred and chamfered.

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

5. Remove the locking screw, rotate the cover assembly and remove the outlet cover from the wall mounting plate by carefully levering with a flat bladed screwdriver.





The sealing o-ring may unseat itself from the mounting plate spigot and lodge inside the outlet cover assembly. This must be removed and refitted as per point 8.

Wall Outlets Installation continued

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 cover assembly 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 over tighten.





RUN THE SHOWER FOR A FEW SECONDS TO CLEAR ANY DEBRIS AND TO CHECK FOR ANY LEAKS

Caring for your Product



DO NOT USE ABRASIVE CLEANERS

It is imperative that de-scaling 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. Your product can be cleaned using only a soft cloth and washing up liquid.

AQUALISA®

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Aqualisa International, Filip Williotstraat 9, 2600 Antwerpen, Belgium

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Republic of Ireland
Sales enquiries: 01-864-3363
Service enquiries: 01-844-3212

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Part No: 708554 Issue 01 March 2025