AQUALISA

SMART

INSTALLATION GUIDE

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

IMPORTANT INFORMATION

Safety information

This appliance can be used by children aged from 3 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

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

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

This system should be installed so that other taps or appliances operated elsewhere within the premises do not significantly affect the flow. The Aqualisa SmartValve™ must not be used with a hot water supply temperature of over 65°C. If the maximum hot water temperature is likely to rise above 65°C then a Thermostatic Blending Valve must be used. The Aqualisa SmartValve™ is supplied factory pre-set at maximum temperature of 45°C. The maximum temperature is fully adjustable to suit site conditions. If adjusted, we recommend the outlet temperature is set to a MAXIMUM of 46°C.

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

We do not recommend the use of a controller in steam therapy facilities. This appliance must be earthed. Cables must be protected by a suitably sized conduit or trunking to avoid risk of damage and to allow removal for service and maintenance purposes. Failure to install this way may invalidate the warranty. Ensure that the conduit is run to avoid the controller fixing holes. Surface mounted cables must also be protected by a suitable approved conduit, even in a loft, where there may be a risk of damage from vermin.

The power lead must only be replaced by the manufacturer or their accredited agent. The controller is supplied from a safety low voltage source. This product is suitable for domestic use only.

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

The pumped Aqualisa SmartValve™ shower system is designed to operate up to a maximum static pressure of 100kPa ((1 bar)(10 metres head)(14.5psi)). Under no circumstances must the pumped Aqualisa SmartValve™ be connected directly to the water main or in line with another booster pump. The minimum actual capacity of the cold water storage cistern should be not less than 225 litres (50 gallons). The capacity of the hot water cylinder must be capable of meeting anticipated demand.

Installation of the standard (unpumped) Aqualisa SmartValve™ (for balanced high pressure and unvented systems, combination boiler systems and separately pumped gravity systems)

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

Special notes for 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

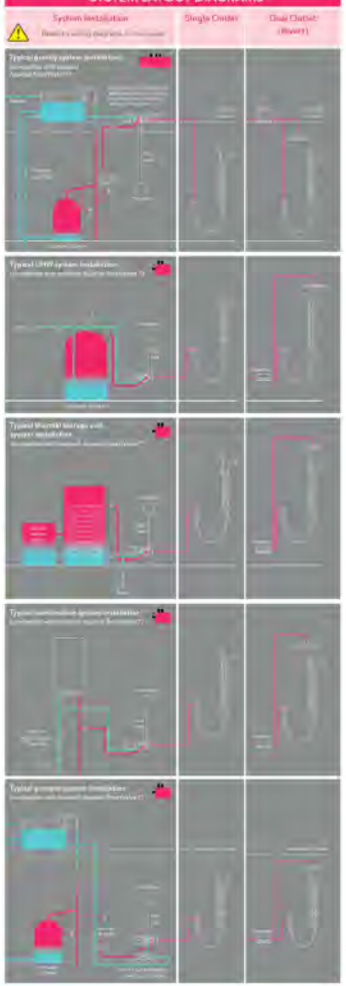
After installation

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

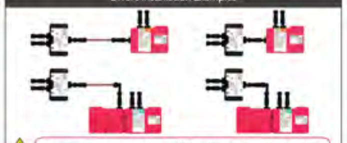


SMART INSTALLATION

Digital TV Interference

AQUALISA SMARTVALVE™ & DIVERTER

Divert Installation Examples



CONTROLLERS - CONCEALED SHOWER

Positioning the controller

Diamond dust hole saws

CONTROLLERS - EXPOSED SHOWER

SmartShelf™ Installation

Positioning the controller

INSERT CABLE FULLY

Scan for Installation Videos

AQUALISA

Intertek

SMART INSTALLATION

AQUALISA SMARTVALVE™ SETUP

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

1 Power supply to the SmartValve™ **MUST** be earthed and utilise a 3 amp fuse. Connect the Aqualisa SmartValve™ power lead to a suitable electrical connection in accordance with current local and national wiring rules (refer to *safety information* section).
Examples of suitable connections:
• A double pole 3 amp fused switched spur incorporated in the fixed wiring circuit.
• A plug and socket, whereby the 3amp fuse can be fitted into either the plug or the socket itself.
Ensure that fitted unit 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 wrenches.
The power lead should be clipped in place with 'P' clips or similar to avoid accidents.

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

⚠ Divert models have product specific diverters, and the supplied diverter must be used. A diverter is not transferable from the main product to suit Customer Services for the correct replacement.

ℹ A handy data cable pocket has been provided for use with a wired remote or roomstat. This can be accessed by carefully snapping and removing the entry plate and connecting the cable as described above. Please refer to the Wired Remote Installation Guide or the Roomstat Wiring Diagram, P18, Wired Remotes and Roomstats section.

3 When making any adjustment to the Aqualisa SmartValve™ settings this 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.

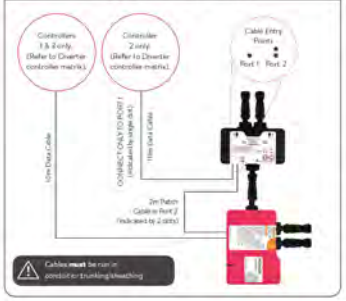
Use the table below for water system settings.

Setting Water System Mode

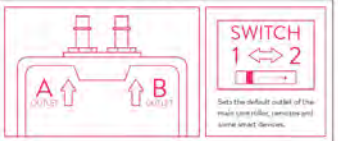
Water System	Valve Type	Setting
Combination Boiler - **ensure setting is changed from factory default**	Standard Aqualisa SmartValve™	Combi **Factory default will be Normal HP, this setting must be changed to Combi for temperature stability and optimum performance**
Balanced High Pressure	Standard Aqualisa SmartValve™	Normal HP (factory default) or Eco HP
Supersonic 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 HP/Eco/Combi mode flow rate therefore is not recommended when used in conjunction with combination boiler or back flow applications. Site conditions can affect temperature settings, enabling to adjust as required. See Controller Commissioning Instructions section.

Wiring Diagram - Divert Models Only



Diverter Outlet



See reference notes in Diverter Controller Matrix for further information.

Diverter Controller Matrix

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

Diverter Primary Outlet Set Up

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

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

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

Controller 2

Diverter Primary Outlet Set Up

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

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

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

Controller 3

⚠ Remove the protective label to allow the temperature lever to rotate.

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

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

Smart Speaker:
Outlet A is always the primary (default) outlet, regardless of the diverter switch position or the primary outlet settings of the controller (configured outlets)

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 this set up sequence the controller will display flashing LED's or a message on the display screen, this process can take up to 2 minutes to complete.
The controller is ready to use once the configuration process has finished.
Controller 3 - Special note: The protective label must be removed to allow the temperature lever to rotate freely.

1 Turn on the power supply to the Aqualisa SmartValve™.

2 Run the shower at maximum temperature (factory pre-set to 41°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 125mm pipe. Slide the wall spacer down the projecting pipe until flush with the finished wall surface.

2 Slide the Times gripper ring down this 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 de-burred 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 Fit the rail preparation fixing holes up to a maximum of 650mm apart.
NOTE: The rail kit supplied utilises a floating bracket that can be positioned to suit existing screw holes on retrofit installations.

11 Dependent 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 screws.

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 oval 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.

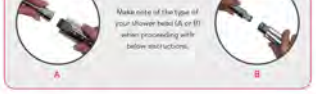
18 Ensuring the hose washer is in the correct position, attach the hose to the wall outlet or the bottom of the adjustable rail.

⚠ 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.

⚠ To meet Water Supply Regulations state that the handset should not be allowed to pass a point 25mm above the spill over level of the bath or shower tray. If this cannot be achieved, the hose must be passed through the gel hook which has been designed to be utilised as a hose restraint.

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



20 **For shower head A:** Ensuring the hose washers are in the correct position, depress the armoured tri-fixing button on the handset and secure the handset to the hose. Place the hose 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 door to placing the handset into the handset holder.

WALL MOUNTED HEAD

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

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 (155mm-750mm measured from the finished wall surface) using a suitable cutter. If a hacksaw is used, the pipework 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 ball spacer followed by the fixing bush onto the pipe flush with the finished wall surface.

6 Fit a 16.75mm 'O' ring against the arm 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 body 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 oggin. A NOGGIN MUST BE USED AS PART OF THE INSTALLATION.

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

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

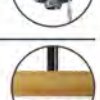
2 Locate the position for the fixed head in the bathroom and firstly, drill a pilot hole to mark the position before checking that there is suitable space behind the ceiling for the fixing assembly.

⚠ The minimum height required behind the ceiling is 150mm and this space must allow for an 85mm wide, 50mm deep noggin to be used to support the assembly.

3 Drill a hole (minimum Ø228mm, maximum Ø340mm) 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 pre-through the fixing bracket to the correct depth. Tighten the nut using a 22mm 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 43mm.

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 shaker 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 shaker 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 top of the bath ensuring the rubber washer is correctly aligned between the outlet body assembly and bath seal.

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, to large baths a 900mm waste pipe conversion kit is available from the Aqualisa Customer Service Department on 0499 426200.
Please contact the Customer Service Department on 0499 426200.

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 cut down by running it under the water to ensure it sits over the outlet.

TROUBLESHOOTING

Symptom	Possible cause	Action
Controller LED's flashing and changing colour when power turned on to the Aqualisa SmartValve™	Start up sequence and controller configuration in process (controller specific).	No action required - sequence and configuration can last up to 2 minutes. Wait until LED's go out and then the controller is ready to use.
Controller unresponsive. No Lights / Blank	Power supply turned off to Aqualisa SmartValve™.	Check power supply is turned on - Green power light should be illuminated on the Aqualisa SmartValve™.
Controller displaying "Preparing, please wait..." for longer than 2 minutes.	Loss of communications	Check data cable connections are making good contact and are fully inserted. Check that the wiring schematics are as per installation instructions.
Pump noisy and low / no flow.	Air lock (On 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 turn the shower on. As the water starts to flow and increase in volume gradually increase the temperature. If the flow starts to splutter, stop raising the temperature until until the flow again stabilises, then continue to increase the dial towards the hottest setting. Isolate hot and cold feeds to the Aqualisa SmartValve™, disconnect from the inlet spigots and then using the isolation valve bleed through the hot and cold supplies. Release the outlet pipe work from the outlet isolation valve of the Aqualisa SmartValve™. Using an appropriate connector, flexi or length of pipe connect to the isolation valve so that water can be discharged into a bucket or suitable receptacle. Start the shower and bleed through until air is cleared. It may be required to have the controller set at a cooler temperature setting until the hot water starts to bleed through, that gradually increase the temperature. NOTE: If the product fitted was the Aqualisa Diverter, then ensure that this is taken out of the plumbing configuration but remains connected to the Aqualisa SmartValve™ via the 2m data cable.
	Restriction in external	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)
	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™, diverter and Fixed Head connection points.
	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 section: Connections and Pipework.
	Supersonic stand alone pump not activating (Standard Aqualisa SmartValve™ only).	Ensure sufficient flow to activate the flow switches of the pump. For Aqualisa divert products a twin ended universal (Inspector head) pump must be used. Refer to IMPORTANT INFORMATION section.
	Aqualisa SmartValve™ pump not activating	Refer to Setting Water System Mode section, ensure mode is set to normal or ECO gravity setting.
Unable to adjust or control temperature	Reversed inlet water supplies (i.e. Hot supply feeding cold inlet and vice-versa)	Ensure correct water supply to specified inlet connection.
Fluctuating water temperature	Incorrect setting on Logic Module of Aqualisa SmartValve™	If hot water supply is from a combination boiler - the Logic module mode MUST be set to COMBI.
	Airlock in water supplies (On 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 58°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 range display does not increase	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 pumped 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 unresponsive / illuminated after switching shower off	Poor cable connection	Check data cable connections are making good contact and are fully inserted (this includes installations where it is not known if a splash).
	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 round any items for guidance on disabling the function.
Water flows from handset when diverter 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	Connection issue	Check that 2m patch lead is connected between Aqualisa SmartValve™ and diverter and that the cables are connected to the correct ports. See section: Wiring Diagram - Divert Models Only. Ensure the correct 2m patch lead is connected - refer to separate Components List.
	Outlets not configured (For models with display screen only)	Turn off the power supply to the Aqualisa SmartValve™, leave isolated for at least 2 minutes. Reinstate power supply and then following instruction in the User Guide (Settings Menu) complete a factory reset, then proceed to Configure Outlets.

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

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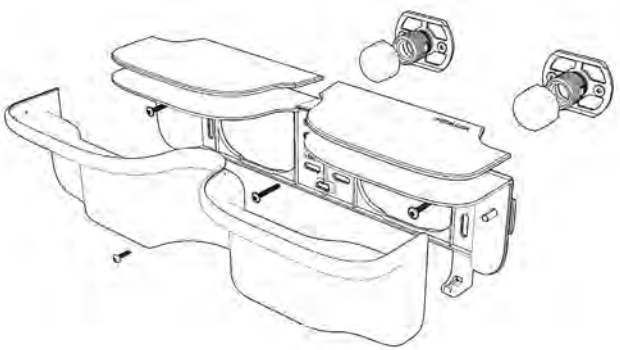
INSTALLATION INSTRUCTIONS

EXPOSED EXTENSION RAIL

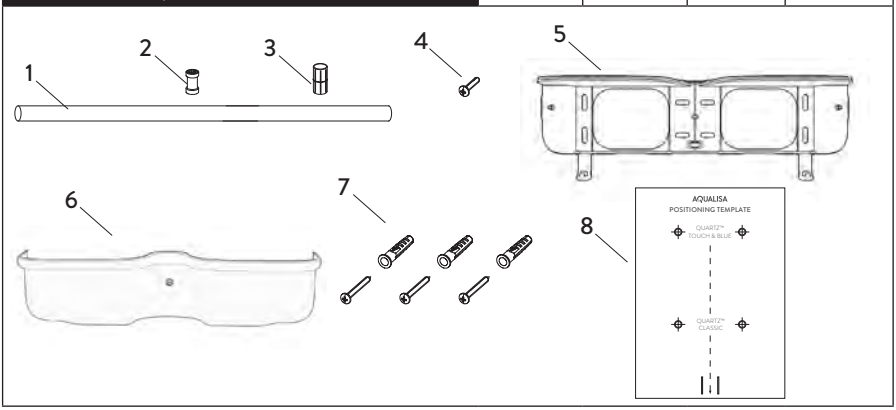


QUARTZ RETROFIT SHELF

CONTENTS

PRODUCT MATRIX

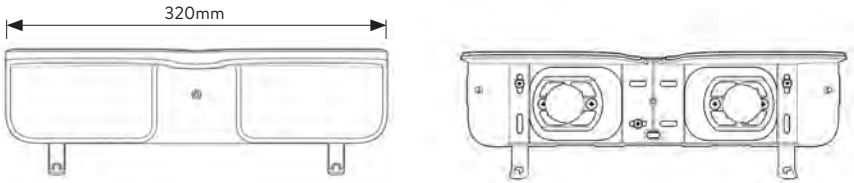
	Component Number	Quantity	Supplied with Extension Rail Only	Supplied with Quartz Retrofit Shelf
550mm Extension Rail	1	1	●	●
15mm Copper Coupler (screw pack 705829)	2	1	●	●
Extension Sleeve - 23.4 - 23.8mm (screw pack 705829)	3	1	●	●
Shelf cover screw (screw pack 705829)	4	1		●
Shelf Rear Housing	5	1		●
Shelf Front Housing	6	1		●
Shelf Mounting Pack (703069) 3 x Screw 3 x Wall Plug	7	1		●
Positioning Template (Located on page 17 of this guide)	8	1		●



INTRODUCTION TO QUARTZ RETROFIT SHELF

The Aqualisa Quartz Retrofit Shelf design incorporates a handy shower shelf with the capacity to cover the majority of existing fittings and fixings on retrofit installations.

Most exposed shower valves have pipe centres between 130 and 170mm, so the Quartz Retrofit Shelf is the perfect solution.



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. This does not affect your statutory rights. In addition, if you require replacement parts, please contact the Aqualisa customer helpline on 01959 5600010 for assistance.

WARRANTY

Aqualisa products are supplied complete with a 1 year guarantee that can be upgraded by registering this product with Aqualisa.

See www.aqualisa.co.uk/warranty for details.

IMPORTANT INFORMATION

Maximum shelf and hook load 4kg.

Avoid using abrasive cloths and strong chemical cleaners.

Compatible with Quartz Touch™, Quartz Blue™ and Quartz Classic™.

For bathroom use only.

Do not store or place valuable items on the shelf.

TOOLS REQUIRED (Tools not supplied)

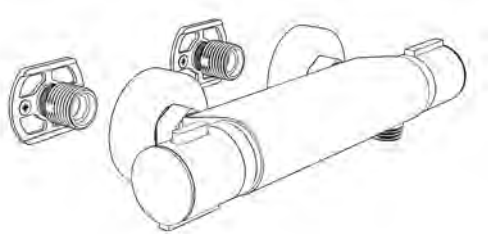
QUARTZ RETROFIT SHELF INSTALLATIONS - OVERVIEW

The shelf rear housing has open sections that can accommodate most varieties of valve fixing kits and brackets, meaning that in most cases they can be left in situ.

Important: The existing exposed pipes or connections need to be capped off using a suitable fitting and the water supplies isolated wherever possible. (Cap fittings not supplied). Example of retrofit installation:

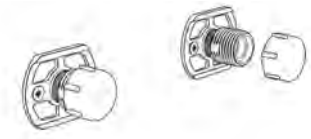
1

Isolate water supplies and remove existing valve



2

Cap off supply pipes /connections

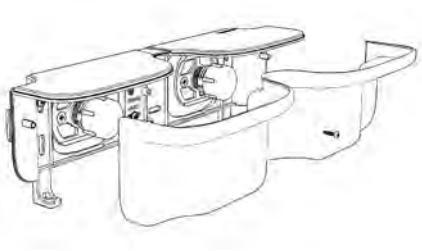


Fixing brackets in situ

Pipe tails and no fixing brackets

3

Install Quartz Retrofit Shelf



4

Install exposed rail assembly

IMPORTANT:

This installation guide is to be used in conjunction with the Aqualisa Smart installation guide.

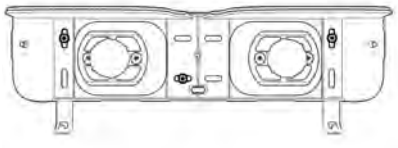
Quartz Retrofit Shelf - follow all steps in this guide

Exposed Extension Rail only - Refer to steps 5 & 6, 9-12 and 16-24

INSTALLATION - FITTING THE QUARTZ RETROFIT SHELF

1

Offer the Quartz Retrofit Shelf rear housing onto the finished wall surface and ensuring the shelf is level mark out 3* fixing points.



*8 fixing points available, the recommended fixings are shown in bold.

2

Drill and prepare the fixings points using the fixings provided (if suitable).

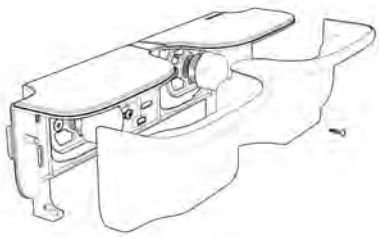
3

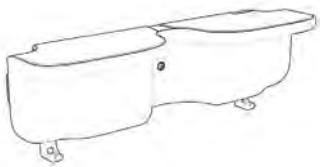
Fix the rear housing to the wall using the screws provided (if suitable). If alternative screws are used, ensure they are non-corrosive and of similar size to the screws provided.

Helpful tip: When tightening to the wall, place a bubble level on top of the housing and use the screw slots for the final adjustments to make certain level.

4

Fit the front housing of the shelf, pressing it fully home on both sides, then secure using short cover screw provided.





INSTALLATION - FITTING THE EXPOSED RAIL ASSEMBLY (IF FITTING A RAIL EXTENSION ONLY, FOLLOW STEPS 5 & 6, 9-12 AND 16-24)

5

Locate a suitable entry point into the ceiling for the rail avoiding joists and services and ensure it is central to the Quartz Retrofit Shelf, where being fitted. (The centre of the rail stands 45mm from the wall)

6

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

IMPORTANT:

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.

7

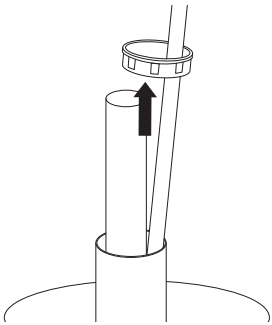
Position the rail assembly in front of Quartz Retrofit Shelf to gauge whether the rail is long enough. With the controller positioned in front of shelf, if rail falls short of the ceiling, continue to step 8. If rail is the correct length and there is suitable clearance above the top of the rail in the roof space, proceed to step 13.

8

If extension rail is not required for the Quartz Retrofit Shelf installation, proceed to step 13.

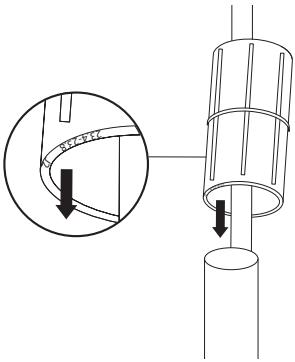
9

Remove the protective plastic insert from the top of the rail by unravelling the 10m data cable and sliding the insert down the cable. Temporarily slide the ceiling cover plate down the rail to ensure it does not interfere with the following steps.



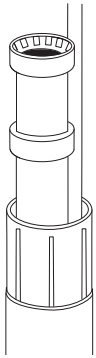
10

Feed the data cable through the extension sleeve ensuring the end of the sleeve showing the size guide “23.4mm – 23.8mm” is in the orientation, as shown, then slide the sleeve into position.



11

Once the extension sleeve is fitted and is in place, fit the 15mm copper couple to the end of the showers internal pipe, pushing fully home. Insert a suitable length of pipe (not supplied) into the open end of the coupler to extend the total length of pipe. Push fully home.



Please note:

If using plastic pipe, ensure pipe inserts are used.

If using copper pipe, DO NOT solder.

12

Feed the data cable through the 550mm extension rail and protective insert (shown in step 9) and push the extension rail into position over the extended pipework and rail extension sleeve. Ensure the protective plastic insert sits firmly into the top of the rail.

Note: For extension rail only installations - Secure the rail assembly to the wall following the main installation instructions supplied with the shower system.

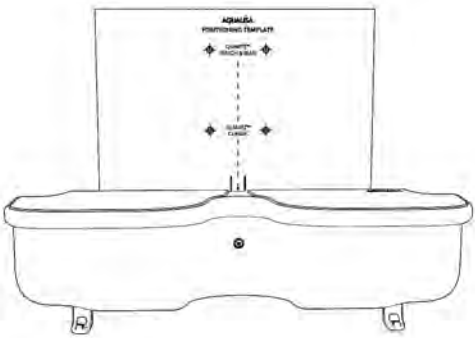
13

Remove the positioning template from this guide, place centrally on top of the Quartz Retrofit Shelf and affix to the wall.

Important: Make note of the product specific fixing positions.

Top fixing points: Quartz Touch™ and Quartz Blue™.

Lower fixing points: Quartz Classic™.

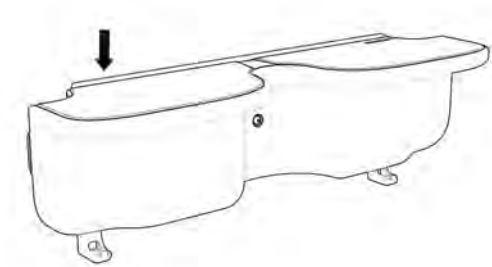


14

Using the template, drill and prepare fixings for the lower rail bracket using the fixings provided (if suitable).

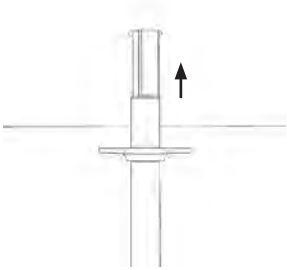
15

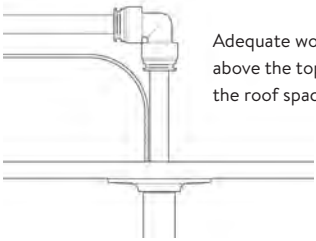
Advisory – run a bead of silicone along the top edge of the Quartz Retrofit Shelf.



16

Feed the data cable through the hole in the ceiling followed by the riser rail assembly containing the supply pipe. Ensure the controller is in front of the Quartz Retrofit Shelf (where applicable), the rail is vertical and that there is adequate working clearance above the top of the rail in the roof space.





Adequate working clearance above the top of the rail in the roof space.

Ensure the controller is in front of the Quartz Retrofit Shelf (where applicable)

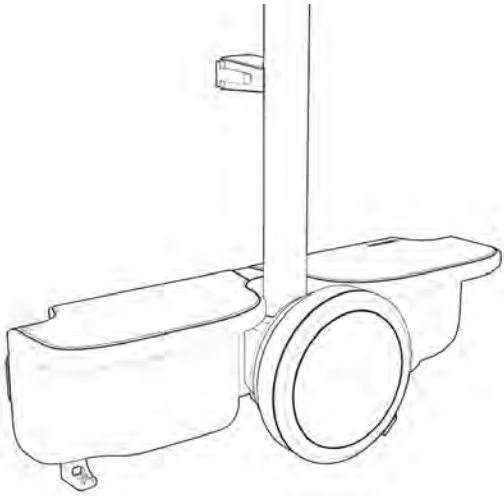
DO NOT use a compression fitting or soldered joint to connect the outlet pipe to the top of the exposed product. The black push fit elbow supplied with your shower MUST be used.

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.

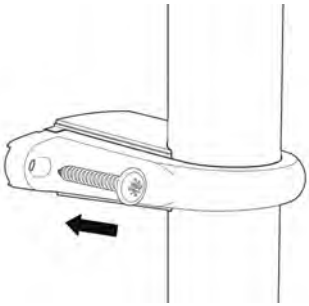
17

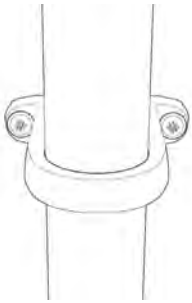
Temporarily slide the gel hook up the rail ensuring it is positioned above the lower rail bracket location. Place the lower bracket support pillar into position ensuring the locking lug is correctly fitted into the location hole in the rail and that is aligned with the entry holes.



18

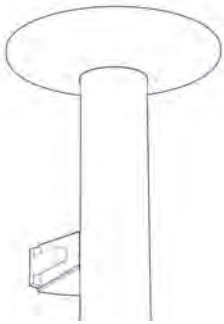
Slide the fixing bracket over the rail onto the support pillar and secure to the wall using the screws provided (if suitable).



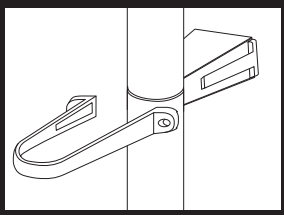


19

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

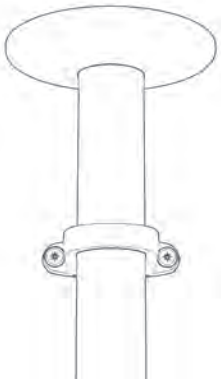


Where relevant, the upper rail fixing bracket may be positioned to cover the rail assembly and rail extension joint.



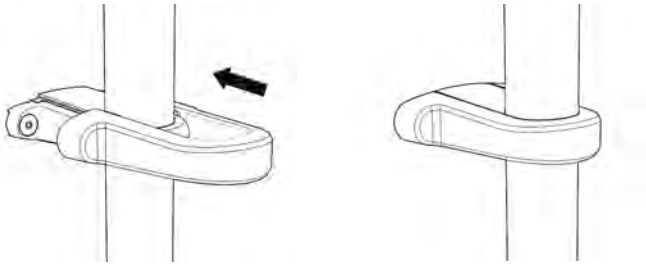
20

Mark the screw holes and remove the fixing bracket. 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).



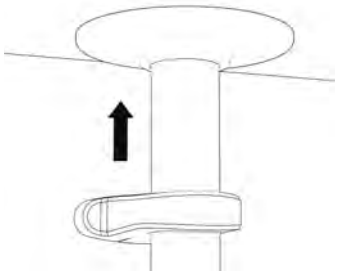
21

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



22

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



23

Attach hose and handset to rail assembly. Ensure hose passes through gel hanger.

24

Return to main instruction manual to complete the installation.

CARE AND USE

Clean using a soft cloth and washing up liquid.

Do not use abrasive cloths.

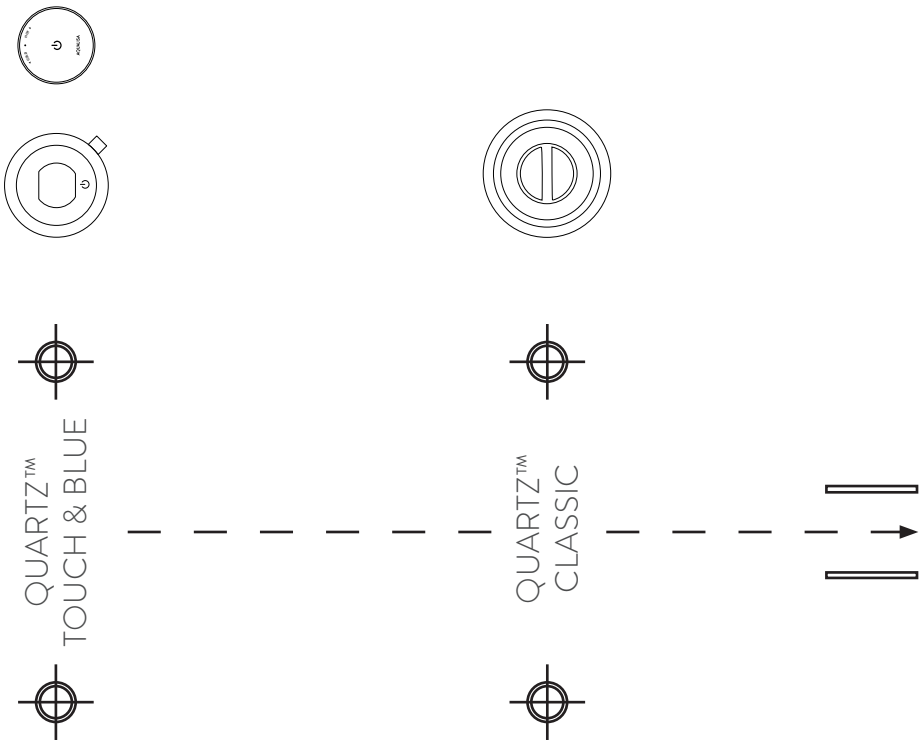
Do not use strong chemical cleaning agents.

For bathroom use only.

Do not store or place valuable items on the shelf.

Maximum load 4kg.

POSITIONING TEMPLATE



NOTES

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