

AQUALISA

HiQu[®] XT

Exposed thermostatic shower
and bath/shower system



Shower systems



HiQu XT bath/shower mixer system



HiQu XT exposed shower system

Axis Digital exposed standard with adjustable height head

Components

Components

Bath/shower mixer system



Components

Exposed shower system



Important information

Introduction

The HiQu XT product range is available as either an exposed shower valve system or an exposed bath/shower mixer system complete with an adjustable height head. The shower heads feature variable spray patterns. HiQu XT thermostatic valves provide close temperature stability and fail safe protection on appropriate high pressure systems.

The HiQu XT range is suitable for use on high pressure, combination boiler and boosted gravity systems.

The HiQu XT product range is supplied with a 5 year guarantee.

Safety information

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

The HiQu XT range is designed for domestic use only.

Product specification

HiQu XT products are suitable for balanced high pressure, combination boiler systems and boosted gravity systems. Pressure range 1.0* – 10.0 bar max (static).

* The combination boiler MUST have a minimum rating of 24kW (80,000 Btu) and be of the type fitted with a fully modulating gas valve.

If in any doubt, please contact the appliance manufacturer before installation commences.

When fitted to combination boiler systems, HiQu XT exposed shower valves have been designed to give optimum temperature control and stability from fully modulating combination boilers and instantaneous gas water heaters. The HiQu XT high pressure exposed shower valves are supplied complete with flow regulators to control the incoming hot water flow rate into the cartridge. The following regulators should be fitted to suit the relevant rated appliance as listed below:

YELLOW = 24kW (80,000 Btu) boiler
GREEN = 28kW (100,000 Btu) boiler
BLUE = 35+kW (120,000+Btu) boiler

Please refer to installation instruction 7 overleaf for fitting the regulator instructions.

N.B. The inlet flow regulators are not recommended for use with HiQuXT bath/shower mixer valves.

Connections

The HiQu XT product range is designed for conventional supplies with HOT on the Left and COLD on the Right as viewed from the front.

Supply lines must be flushed clear of any debris before installation of the unit. Any debris accumulation in the shower valve and head may result in damage and poor performance.

Flushing

Some modern fluxes can be extremely corrosive and, if left in contact, will attack the working parts of this unit. All soldering must be completed and the pipe work thoroughly flushed out in accordance with current Water Supply Regulations prior to connection of the product.

Filters

To ensure optimum ongoing performance, the HiQu XT product range is protected by inlet filter assemblies in the internal waterways. Debris accumulation may result in progressively reduced flow through the showerhead and noisy operation.

Isolating valves

Suitable full way isolation valves must be fitted to both supplies in accordance with current Water Supply Regulations and our terms of warranty.

Due to their restrictive characteristics, stopcocks and ball type valves that reduce the pipe bore size must not be used on gravity pumped installations.

Important information

Pressures

The HiQu XT product range is designed to control static pressure up to 10 bar. Where pressures are likely to exceed 10 bar, a pressure reducing valve (PRV) must be fitted into the incoming mains supply. A setting of 3 bar is recommended. It should be noted that daytime pressures approaching 8 bar can rise above the stated maximum overnight.

A suitable PRV is available from Aqualisa.

The HiQu XT product range is not suitable for mixed supply systems, e.g. gravity hot and mains cold.

Boosted gravity installation

UNDER NO CIRCUMSTANCES MUST A PUMP BE FITTED DIRECTLY TO THE WATER MAIN.

A pump must only be used to boost the pressure from tank-fed supplies. A typical layout is shown overleaf.

A minimum 1 bar twin ended booster pump may be fitted with any HiQu XT product, but for optimum performance a larger booster pump is recommended.

Stored water capacities

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

Balanced high-pressure system

The HiQu XT high pressure product range is designed to operate with unvented hot water storage systems up to a maximum pressure of 10 bar. The cold water supply must be drawn from the same mains supply as that to the hot water system (down stream of the cylinder manufacturers pressure limiting valve, where supplied) and the hot supply from the nearest convenient draw off point. Account must be taken of pressure drops that may occur when other draw-off points are used while the shower is in use.

Combination boiler/multipoint system

The HiQu XT high pressure product range is suitable for use with combination boiler systems. The combination boiler **MUST** have a minimum rating of 24kW (80,000 Btu) and be of the type fitted with a fully modulating gas valve.

This is sufficient to operate one outlet point at a time. The HiQu XT cartridge is designed to operate from the mains at a maximum of 10 bar. If the mains pressure exceeds 10 bar a 'drop tight' PRV must be fitted on the supply pipe after the main stopcock.

If in any doubt, please contact the appliance manufacturer before installation commences.

The cold supply can be taken from the nearest convenient mains supply and the hot supply can be taken from the nearest hot water draw-off point. Account must be taken of the pressure drops that will occur when other draw-off points are used while the shower is in use.

When fitted to combination boiler systems, HiQu XT exposed shower valves have been designed to give optimum temperature control and stability from fully modulating combination boilers and instantaneous gas water heaters. The HiQu XT high pressure exposed shower valves are supplied complete with flow regulators to control the incoming hot water flow rate into the cartridge. The following regulators should be fitted to suit the relevant rated appliance as listed below:

YELLOW = 24kW (80,000 Btu) boiler

GREEN = 28kW (100,000 Btu) boiler

BLUE = 35+kW (120,000+Btu) boiler

Please refer to installation instruction 7 overleaf for fitting the regulator instructions.

N.B. The inlet flow regulators are not recommended for use with HiQu XT bath/shower mixer valves.

Step-by-step instructions

HiQu XT exposed valve



In addition to the guide below it is essential that the written instructions overleaf are read and understood and that you have all the necessary components before commencing installation. Failure to install the product in accordance with these instructions may adversely affect the warranty terms and conditions. Do not undertake any part of this installation unless you are competent to do so. Prior to starting, ensure that you are familiar with the necessary plumbing regulations required to install the product correctly and safely.



A first fix easy fit fixing bracket is available separately, product code MD300EFB, designed for ease of installation. If required, fit the easy fit bracket following the installation instruction sheet supplied with the bracket and proceed to step 6. **The exposed valve and fixing bracket assembly MUST NOT be used as a grab rail support method.**



1

Eccentric elbows are provided to allow for inlet pipework adjustment between 140mm – 160mm centres. Construct suitable connections terminating in ½" BSP female fittings.

2

If required, apply jointing tape to the threads and fit the eccentric elbow connectors sufficiently to achieve a water tight seal, terminating at 150mm centres to suit the exposed valve inlets.



3

Ensuring adequate provision to allow the water to discharge safely to waste, turn on the supplies to flush the system through. Attach pressure test equipment and pressure test the system in accordance with Water Supply Regulations.

4

Ensure the ¾" supply connections are temporarily capped to prevent any dirt or dust ingress into the pipe work during the making good process. Remove the caps prior to connecting the shower valve.

5

Apply a thin bead of mastic to the rear of the cover plates. Place the cover plates onto the exposed ¾" threads, flush with the finished wall surface.



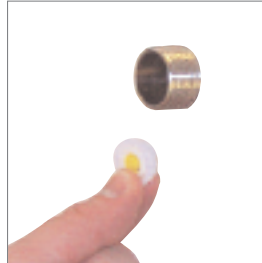
6

If the valve is being installed for use with a gas fired instantaneous (multi-point) water heater or a combination boiler, a flow regulator should be fitted to the hot water inlet. The inlet flow regulators are supplied as part of the system components and should be fitted to suit the relevant rated appliance as listed below:

- YELLOW** = 24kW (80,000 Btu) boiler
- GREEN** = 28kW (100,000 Btu) boiler
- BLUE** = 35+kW (120,000+ Btu) boiler

7

The HiQu XT high pressure product range is supplied complete with 2 hot inlet flow regulator housings. The smaller housing is suitable for use with the Aqualisa easy fit fixing bracket and the larger housing is suitable for use with conventional inlet connections e.g. eccentric elbow connections. Fit the relevant sized regulator into the correct sized housing and place into the hot inlet pipe work connection ensuring the flow regulator O'ring faces the incoming flow.



8

Ensuring the fibre washers are positioned within the valve inlets, offer the valve into position. Tighten the fixing nuts using a suitable tool taking care not to overtighten.



9

Attach the hose to the valve hose outlet to allow the water to discharge safely to waste. Turn on the supplies to the shower and turn the shower on to flush the system through. Turn off the shower.



If required, refer to the commissioning instructions to adjust the maximum temperature override button position.

HiQu XT bath/shower mixer - wall mount



In addition to the guide below it is essential that the written instructions overleaf are read and understood and that you have all the necessary components before commencing installation. Failure to install the product in accordance with these instructions may adversely affect the warranty terms and conditions. Do not undertake any part of this installation unless you are competent to do so. Prior to starting, ensure that you are familiar with the necessary plumbing regulations required to install the product correctly and safely.



A wall mounting accessory kit is available from Aqualisa customer services separately – part no. 525301



Alternatively, a first fix easy fit fixing bracket is also available separately, product code MD300EFB, designed for ease of installation. If required, fit the easy fit bracket following the installation instruction sheet supplied with the bracket and proceed to step 5.



The exposed valve and fixing bracket assembly MUST NOT be used as a grab rail support method.

1

Construct suitable connections at 150mm centres terminating in 3/4" BSP male threads.

2

Ensuring adequate provision to allow the water to discharge safely to waste, turn on the supplies to flush the system through. Attach pressure test equipment and pressure test the system in accordance with Water Supply Regulations.

3

Ensure the 3/4" supply connections are temporarily capped to prevent any dirt of dust ingress into the pipe work during the making good process. Remove the caps prior to connecting the shower valve.

4

Inlet pipe cover plates are available separately from Aqualisa customer services as an accessory kit (part no.525301) or complete with the easy fit fixing bracket. If required, apply a thin bead of mastic to the rear of the cover plates. Place the cover plates onto the exposed 3/4" threads flush with the finished wall surface.



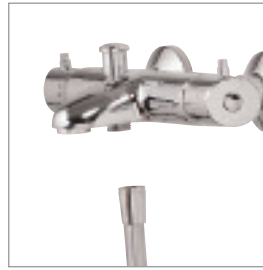
5

Ensuring the fibre washers are positioned within the valve inlets, offer the valve into position. Tighten the fixing nuts using a suitable tool taking care not to overtighten.



6

Turn on the supplies to the bath/shower mixer and turn the flow control knob on to flush the system through. Turn off the bath/shower mixer.



If required, refer to the commissioning instructions overleaf to adjust the maximum temperature override button position.

HiQu XT bath/shower mixer - deck mount

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The HiQu XT bath/shower mixer features inlet pipe centres of 150mm. However deck mount adaptors are provided to allow installation to baths at standard 180mm centres.

1

Ensuring the fibre washers are fitted within the valve inlets, attach the deck mount adaptors to the bath/shower mixer. Tighten the connections using a suitable tool, taking care not to overtighten.



2

Place the rubber washers onto the tap tails and offer the assembly into position onto the bath.



3

Place the back nuts onto the tap tails and secure the assembly to the underside of the bath.



4

Using suitable connections connect the tap tails to the hot and cold supplies.



5

Turn on the supplies to the bath/shower mixer and turn the flow control knob on to flush the system through. Turn off the bath/shower mixer.

If required, refer to the commissioning instructions overleaf to adjust the maximum temperature override button position.

Adjustable height head

1

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

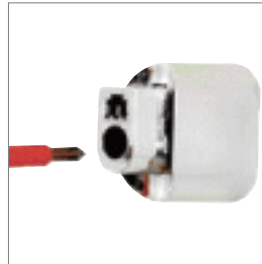


!

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

2

Fix the top wall bracket to the appropriate position using the screws provided if suitable ensuring that the arrow on the bracket is facing upwards. Insert the nut into the slot above the screw hole and push fully home.



3

Fix the bottom wall bracket to the appropriate position using the screws provided if suitable ensuring that the arrow on the bracket is facing downwards. Insert the nut into the slot below the screw hole and push fully home.



4

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



5

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



6

Attach the shower hose, ensuring the hose washer is correctly fitted and flush the system through for a few seconds.

7

Turn off the shower and pass the hose through the gel hanger/hose restraint.



8

Disengage the pivot clip from the bottom of the handset.



9

Ensure the hose washer is in the correct position and screw the pivot into the hose using a suitable spanner to tighten, taking care not to over tighten.

10

Re-insert the pivot into the handset and engage the pivot clip prior to placing the handset into the handset holder.



User guide

HiQu XT shower valve and bath/shower mixer

When the temperature lever knob on the right of the valve when viewed from the front has the maximum temperature override button at the top of the knob, the valve is in the mid blend position. The mid blend temperature is dictated by the temperature of the incoming supplies. To select a comfortable showering temperature, depress the button and slowly rotate the knob away from the finished wall surface to increase the temperature and towards the finished wall to decrease the temperature, using the temperature markings as a guide.



N.B. Should it be necessary to reset the maximum temperature position, please refer to the commissioning instructions.

We recommend the MAXIMUM outlet temperature is set to 46°C.

HiQu XT high pressure flow rate

Turn the valve on by carefully rotating the flow control knob on the left of the valve when viewed from the front, towards the finished wall surface until a stop is reached. To increase the volume of flow, depress the eco stop button and rotate the flow control knob further. Turn the valve off by rotating the flow control knob away from the finished wall until a stop is reached.



N.B. With bath/shower mixers fitted to combination boiler systems, it may be necessary to adjust the flow control knob and reduce the flow to achieve a comfortable showering and bathing temperature.

HiQu XT range bath/shower mixer diverter knob

To divert from bath fill to shower, with the valve running, lift the diverter knob and twist a quarter turn to lock the knob into position. To divert back from shower to bath, twist the diverter knob a further quarter turn until it sits flush on the bath spout.



Adjustable head user guide

1. To select the preferred height for the shower head, depress the slider levers fully to enable the holder to be moved up or down the rail.
2. Angular adjustment is made by carefully but firmly pulling forwards or pushing back the shower head against the knuckle ratchet in the holder.
3. Slide the handset lever into the desired position to select the shower spray pattern.



Cleaning

Your HiQu XT should be cleaned using only a soft cloth and washing up liquid.

! DO NOT USE ABRASIVE CLEANERS.

To reduce the requirement for chemical descaling in hard water areas, the shower heads incorporate rub clean teats. Any scale build up that may occur in any of the holes can be broken down by gently rubbing the flexible tips of the jets during use.

Should chemical descaling of the head become necessary, remove the shower head and fully immerse in a mild proprietary descalent.

IT IS IMPERATIVE THAT DESCALING IS CARRIED OUT STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. SUBSTANCES THAT ARE NOT SUITABLE FOR PLASTICS AND ELECTROPLATED SURFACES MUST NOT BE USED.

Commissioning



THE HIQU XT PRODUCT RANGE IS PRE-SET TO A SAFE MAXIMUM SHOWER TEMPERATURE. SHOULD IT BE NECESSARY TO RESET THE MAXIMUM TEMPERATURE POSITION, PLEASE OBSERVE THE FOLLOWING PROCEDURE. WE RECOMMEND THE MAXIMUM OUTLET TEMPERATURE IS SET TO 46°C.

1. Ensure that the hot water system is at normal maximum temperature.
2. Turn the temperature control knob to the mid-blend position (with the button at the top of the knob).
3. Carefully remove the end cover cap using a small flat bladed screwdriver if necessary.
4. Remove the central fixing screw, pull the knob clear and set aside.
5. Turn the valve on.
6. Using a digital thermometer adjust the temperature control to the required MAXIMUM temperature setting.
We recommend the MAXIMUM outlet temperature is set to 46°C.
7. Turn the valve off.
8. Ensuring the temperature override button is pushed in, place the knob onto the valve ensuring the MAX temp position is aligned with the temperature setting indicator.
9. Secure the knob to the valve and refit the knob insert.

! Should unacceptable damage to the temperature knob end cap occur when removing it from the temperature knob, please contact Aqualisa customer service on 01959 560010 to arrange a replacement.

Trouble shooting guide

Symptom	Possible cause	Action
Water output is either all hot or all cold, or cold only.	Reversed inlet supplies	Check that the supplies correspond with the inlet markings
Water output is not hot enough	The temperature of the hot water cylinder is too low	The cylinder temperature should be at least 15°c hotter than the blend
	Water flow through the appliance is too fast	Check the flow rate recommendations with the heater manufacturer
	Water flow through the hot water appliance is too fast (Bath/shower mixers on combination boiler systems)	Adjust the flow control knob on the mixer valve to reduce flow until a comfortable showering or bathing temperature is achieved
Flow rate is poor and water temperature is low	Airlock in the water supply	Check that the pipe work is laid in accordance with the correct practices, paying particular attention to potential air-traps
Water temperature regularly swings between hot and cold	Cold water pressure is too high	If the static water pressure exceeds 10 bar, install pressure reducing valve (PRV) in accordance with the installation guide
	The flow regulator, or the correct flow regulator has not been fitted (combi boilers systems)	Fit the flow regulator
Poor flow rate	Twisted hose Debris in shower head Debris in filters Debris in cold inlet flow regulator	Check and clear as necessary



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