

AQUALISA

Dual

Exposed shower with fixed and adjustable shower heads



Shower systems



Exposed shower with fixed and adjustable shower heads

Important information

Introduction

The Dual product is an exposed shower complete with fixed and adjustable height shower heads. Dual thermostatic valves provide close temperature stability and fail safe protection on appropriate high pressure systems.

The Dual product is suitable for use on high pressure, combination boiler and boosted gravity systems.

The Dual product 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 SHOWER MUST NOT BE USED WITH A HOT WATER SUPPLY TEMPERATURE OVER 65 C.

The Dual product is designed for domestic use only.

Product specification

Dual products are suitable for balanced high pressure, combination boiler systems and boosted gravity systems. Pressure range 1.0* – 10 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.

Connections

The Dual product 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, Dual products are 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.

Pressures

The Dual cartridge is designed to operate from the mains at a maximum of 10 bar. If the mains pressure exceeds 5 bar a 'drop tight' PRV must be fitted on the supply pipe after the main stopcock. 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.

If the dynamic (running) pressure is greater than 2 bar a bottom outlet flow regulator will be required. Please contact Aqualisa customer service on 01959 560010.

! The Dual product is not suitable for mixed supply systems, e.g. gravity hot and mains cold.

Important information

Combination boiler/multipoint system

The Dual product 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.

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.

Balanced high-pressure system

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.

Boosted gravity fed hot and cold supplies

Services must be installed according to good plumbing practice having regard to pipe sizing, long pipe runs and low-head situations.

Pump installation

PLEASE REFER TO THE MANUFACTURERS PUMP INSTALLATION GUIDE FOR PUMP INSTALLATION INFORMATION.

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 minimum 1 bar twin ended booster pump may be fitted with the Dual mixer shower, but for improved performance, we recommend a twin ended booster pump larger than 1 bar is used.

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.

CYLINDER TEMPERATURE IN EXCESS OF 65°C MAY RESULT IN POOR SHOWER PERFORMANCE.

To minimise pressure loss we recommend that the hot and cold supplies are run in 22mm as close as reasonably possible to the mixing valve before reducing to 15mm to suit the intended inlet connection fittings.

Siting

With boosted gravity fed systems, please ensure the minimum gravity flow rate is sufficient to operate the pump flow switches.

PLEASE REFER TO THE MANUFACTURERS PUMP INSTALLATION GUIDE FOR PUMP INSTALLATION INFORMATION.

Step-by-step instructions



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 (shown overleaf) 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 below.



If using the MD300EFB bracket ensure sufficient threads are left from the finished wall surface, after the cover plates have been fitted, to ensure adequate purchase for the exposed valve.

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 130mm – 170mm centres. Construct suitable connections terminating in ½”BSP female fittings.

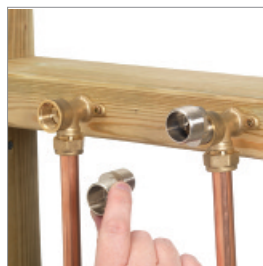


When using the eccentric elbows provided we recommend leaving sufficient threads from the finished wall surface, after the cover plates have been fitted, to ensure adequate purchase for the exposed valve.

If using alternative fixings please refer to the installation instructions provided to ensure adequate threads are left to connect the exposed valve after the cover plates have been fitted to the finished wall surface.

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

Place the cover plates onto the exposed $\frac{3}{4}$ " threads, flush with the finished wall surface and apply a thin bead of mastic if required.

6

Remove the grub screws from the valve control knob levers and set aside.

7

Secure the grub screws to the valve control knobs using the hexagonal key provided and fix the levers to the control knob assemblies.



8

Ensuring the 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

Ensuring the sealing washer is in position, secure the top outlet valve connector to the valve and tighten using a suitable tool, taking care not to overtighten.



Fixed & adjustable height head assembly

1

Ensuring the handset cradle is on the left hand side of the rail, pass the rail through the handset holder whilst keeping the slider button depressed.



2

Remove the cover plate and pass the straight riser tube through the wall fixing bracket.

3

Fit the formed shower arm to the straight riser tube.

!

The straight riser tube is a fixed length and is not suitable to cut down.



4

Ensuring the O'ring and nut is secure on the riser tube, locate the rail assembly into position within the valve top outlet and push fully home.



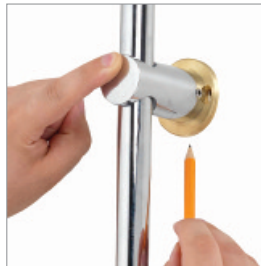
5

Carefully slide the wall bracket up the riser tube assembly to conceal the join between the straight and formed riser tubes.



6

Ensuring the riser tube assembly has been correctly positioned and attached to the mixer valve, mark the position of the fixing plate. Remove the riser tube assembly from the valve and remove the bracket assembly from the riser rail.



7

Remove the fixing plate from the wall bracket assembly using the hexagonal key provided.



8

Place the fixing plate into position and mark and prepare the fixing points using the fixings provided, if suitable.

9

Secure the fixing plate to the wall using the screws provided, if suitable.



10

Ensuring the wall bracket is in the correct position on the riser rail assembly, secure the wall bracket to the rail via the grub screw in the rear of the wall bracket using a suitable hexagonal key.



This will prevent the rail from rotating when fitted to the mixer shower.

11

Carefully slide the coverplate onto the wall bracket.



12

Re-position the rail assembly into place in the mixer valve outlet and push fully home. Tighten the fixing nut using a suitable tool, taking care not to overtighten.

13

Secure the wall bracket to the fixing plate using the hexagonal key provided. Carefully secure the cover plate flush with the finished wall surface.



14

Ensuring the hose washer is in place, attach the hose to the hose outlet, taking care not to overtighten. Turn the shower on towards the wall to allow the water to discharge safely to waste and run the shower for a few seconds to clear any debris in the outlet assembly.

This process can also be repeated for the fixed head by adjusting the control knob away from the wall.



15

Ensuring the flat washer is in place, carefully screw the shower head to the formed arm taking care not to damage the plated surface. Carefully tighten the shower head with a suitable tool taking care not to overtighten.



16

Ensuring the hose is in the correct position, offer the hose onto the handset. Push the handset onto the hose to lock the anti kink swivel connector and secure the handset to the hose. Once tightened carefully pull the handset away from the hose to release the integral anti kink swivel connection. Place the handset into the handset holder.



The tension of the handset station to the handset holder is factory set. However, it may be necessary, especially for showers fitted to high pressure systems, to tighten the tension as required. Tighten the screw inside the handset station taking care not to overtighten.

User guide – Shower valve

Shower operation

1. The Dual product features temperature control on the right hand side of the valve when viewed from the front. When the lever is pointing upwards, the valve is in the mid blend position. To change the showering temperature rotate the control away from the wall to increase the temperature and towards the wall to decrease the temperature, using the markings as a guide.

THE MID BLEND TEMPERATURE IS DICTATED BY THE TEMPERATURE OF THE INCOMING SUPPLIES.

N.B. Should it be necessary to reset the maximum temperature position, please refer to the commissioning instructions overleaf. **We recommend the MAXIMUM outlet temperature is set to 46⁰C.**

2. Turn the valve on by rotating the control knob on the left side of the valve away from the wall to operate the fixed head or towards the wall to operate the adjustable height head, using the icons as a guide. Turn the valve off by rotating the control knob to the centre until a stop is reached and the lever is pointing upwards.



User guide – Adjustable shower head

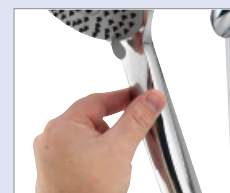
Shower operation

NEVER ATTEMPT TO MAKE ANY ADJUSTMENT TO THE SHOWER HEAD BY PULLING ON THE SHOWER HOSE.

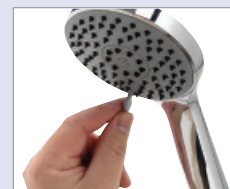
1. To select the preferred height for the shower head, press the handset holder button to enable the slider to be moved up or down the rail.



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



3. To select the desired spray pattern rotate the shower plate clockwise or anti-clockwise.



User guide – Fixed shower head

1. The shower head is mounted on a multi-directional ball joint to allow angular adjustment in any direction by carefully moving the head to the desired angle.



Cleaning and maintenance

Your Dual shower system 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 descalant.

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 DUAL 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 lever at the top of the knob).
3. Carefully unscrew the lever from the knob and set aside.
4. Remove the temperature lever grub screw and set aside.
5. Using a suitable hexagonal key, loosen the grub screw and pull the temperature control knob clear.
6. Turn the valve on.
7. Using a digital thermometer, rotate the cartridge spline to adjust the temperature control to the required MAXIMUM temperature setting.
We recommend the MAXIMUM outlet temperature is set to 46°C.
8. Turn the valve off.
9. Using a suitable tool, remove the maximum temperature stop ring.
10. Reposition the temperature stop ring ensuring the maximum temperature stop point aligns with the markings on the temperature spline.
11. Refit the temperature control knob onto the valve with a temperature lever fixing point in the maximum temperature position.
12. Secure the knob to the valve and refit the temperature control lever assembly.

! If required, the flow control knob can be removed following the above procedure.

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	<p>The temperature of the hot water cylinder is too low</p> <p>Water flow through the appliance is too fast</p> <p>Water flow through the hot water appliance is too fast</p>	<p>The cylinder temperature should be at least 15°c hotter than the blend</p> <p>Check the flow rate recommendations with the heater manufacturer</p> <p>Adjust the flow control knob on the mixer valve to reduce flow until a comfortable showering temperature is achieved</p>
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
Poor flow rate	<p>Twisted hose</p> <p>Debris in shower head</p> <p>Debris in filters</p>	Check and clear as necessary



AQUALISA

Aqualisa Products Limited
The Flyer's Way
Westerham Kent TN16 1DE

Sales enquiries: 01959 560010

Republic of Ireland 01-864-3363

Customer helpline: 01959 560010

Republic of Ireland 01-844-3212

Brochure Hotline: 0800 652 3669

Website: www.aqualisa.co.uk

Email: enquiries@aqualisa.co.uk



Part No:649601 Issue 01 Nov 10

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