AQUALISA

MIDAS™ 220

INSTALLATION INSTRUCTIONS

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Important information

INTRODUCTION

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

In the event of any product problems, please contact the Aqualisa customer helpline on 01959 560010 for assistance.

Safety information

This product must be installed by a competent person in accordance with all relevant current Water Supply Regulations. The Midas range is designed for domestic use only.

Product specification

Midas mixer products are suitable for balanced high pressure, combination boiler and boosted gravity systems.

Pressure range 1.0 –10 bar max (static).

Note: 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.

CONNECTION TO SUPPLIES

The Midas 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 pipework thoroughly flushed out in accordance with current Water Supply Regulations prior to connection of the product.

Filters

To ensure optimum ongoing performance, the Midas product range is protected by inlet filter assemblies in the internal waterways. Debris accumulation may result in progressively reduced flow through the shower head and noisy operation. As this condition is not covered by our standard warranty terms, it is suggested that the cartridge be removed and the filters checked by a competent person at least every 12 months. In the event of any difficulties please contact the Aqualisa customer helpline for assistance.

Isolation valves

Suitable full bore 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 boosted gravity installations.

Pressures

The Midas 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.

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

BOOSTED GRAVITY SYSTEMS

The Midas shower valve is suitable for use with boosted gravity systems. Services must be installed according to good plumbing practice and in accordance with the pump manufacturers installation guidelines, having regard to pipe sizing, long pipe runs and low-head situations.

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 pump and mixing valve before reducing to 15mm to suit the intended inlet connection fittings.

Pump installation

UNDER NO CIRCUMSTANCES MUST A PUMP BE FITTED DIRECTLY TO THE WATER MAIN UNLESS SPECIFIED BY THE PUMP MANUFACTURER.

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

A pump must only be used to boost the pressure from the tank-fed supplies, a typical layout is shown on page 8.

A minimum 1 bar twin ended booster pump may be fitted with **most*** Midas products, we recommend a twin ended boost pump larger than 1 bar is used.

Due to the characteristics of the bar valve and particular site conditions, a standard twin ended pump may not be suitable due to insufficient flow to activate the pump's flow switches*.

***SPECIAL NOTES FOR SHOWER COLUMNS (MIDAS SC MODELS) & LOW FLOW / MINIMAL HEAD APPLICATIONS:**

A **universal type twin ended pump** (works in both positive and negative head conditions) is required in the below circumstances:

Shower Columns (Midas SC models) – with fixed heads where the head distance is not sufficient to activate the flow switches of a standard pump.

Low gravity boosted flow – due to restrictions, pipe runs or where the head of water is not sufficient to activate the flow switches of a standard pump.

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 Midas 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. A typical layout is shown on page 9.

COMBINATION BOILER SYSTEM

The Midas 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.

For pressure refer to page 5.

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. A typical layout is shown on page 9.

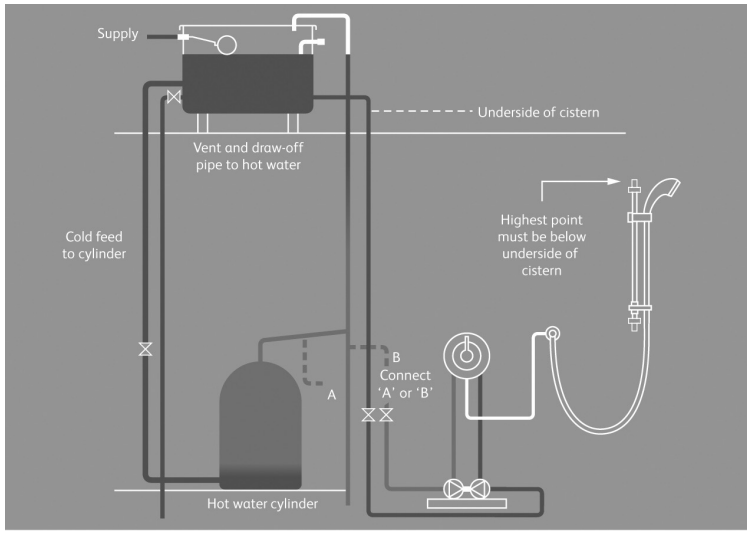
When fitted to combination boiler systems, Midas shower valves have been designed to give optimum temperature control and stability from fully modulating combination boilers and instantaneous gas water heaters.

If temperature adjustment is required, refer to cartridge adjustment instructions on page 31.

TYPICAL GRAVITY BOOSTED SYSTEM INSTALLATION

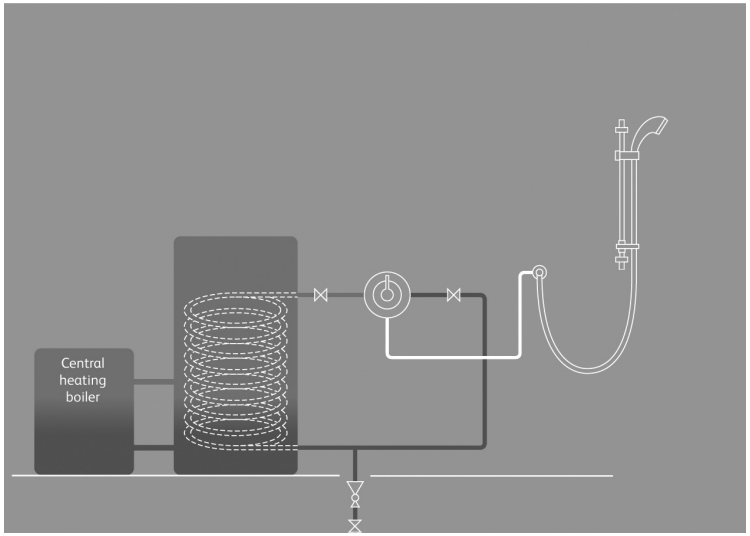
(suitable for use with all Midas valves)

Refer to special notes on page 6*



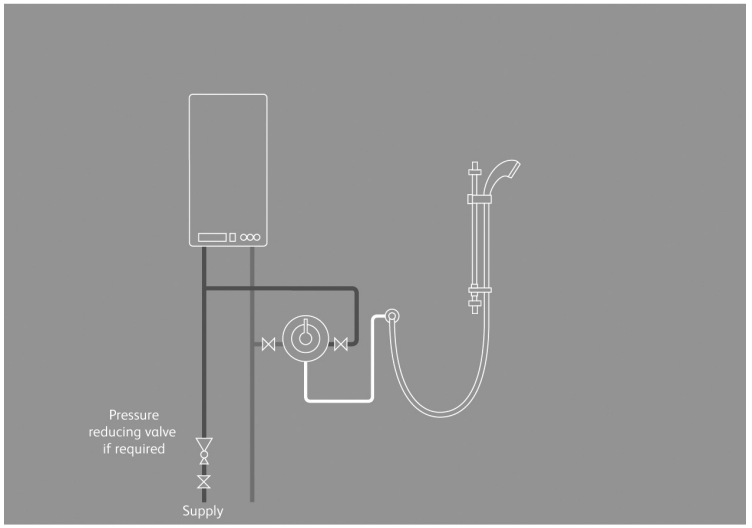
TYPICAL THERMAL STORAGE UNIT SYSTEM INSTALLATION

(suitable for use with all Midas valves)



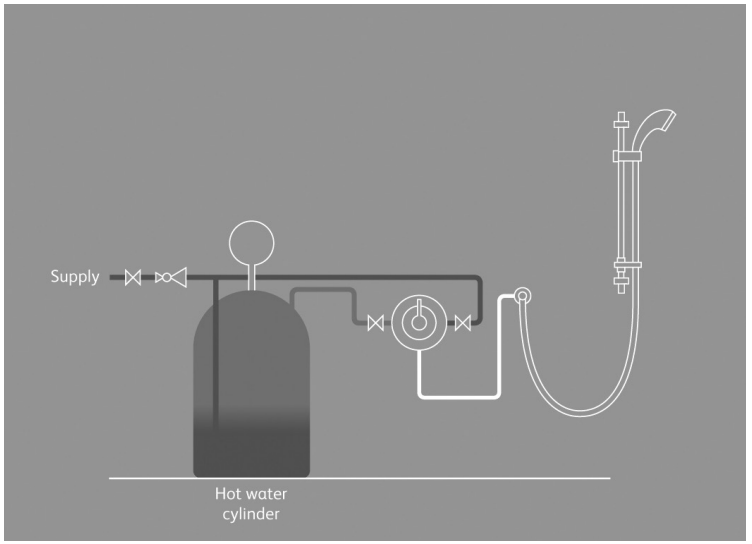
TYPICAL COMBINATION BOILER SYSTEM INSTALLATION

(suitable for use with all Midas valves)



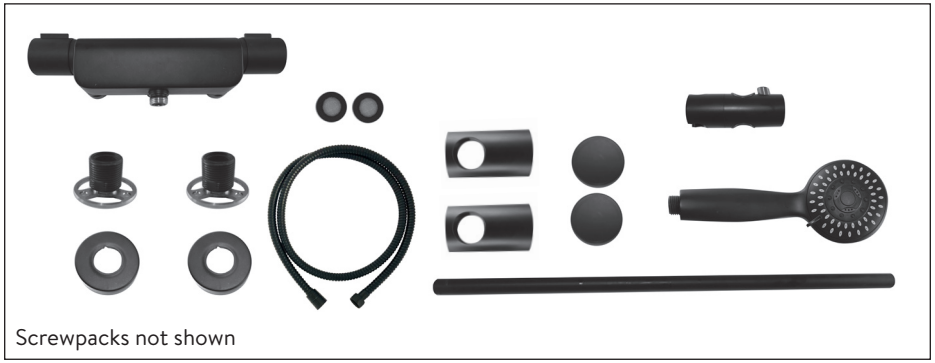
TYPICAL UHW SYSTEM INSTALLATION

(suitable for use with all Midas valves)



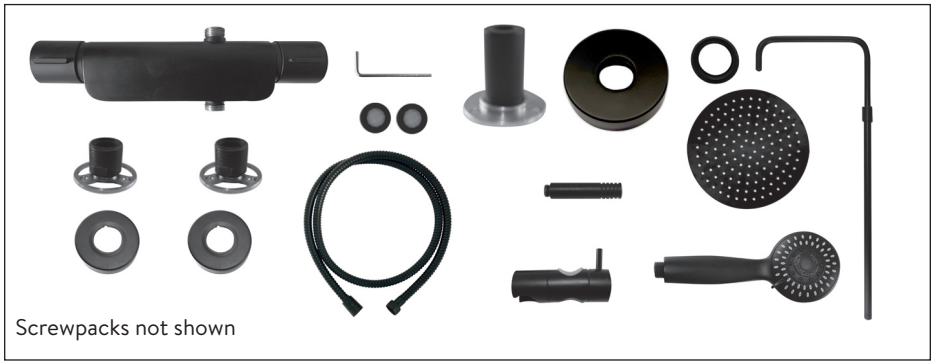
MIDAS COMPONENTS

Midas 220 shower



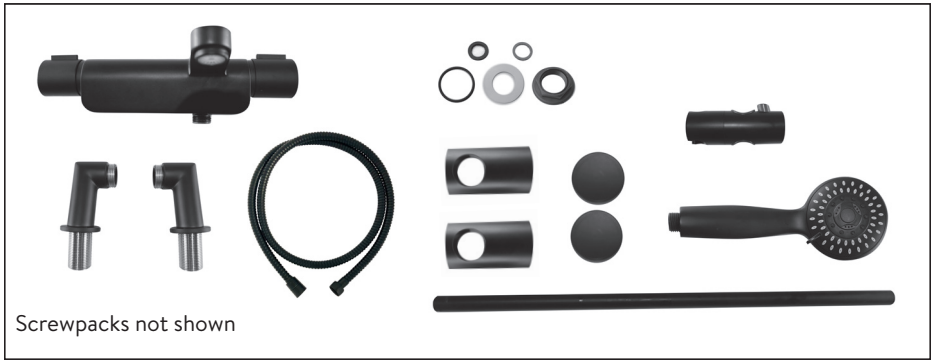
Screwpacks not shown

Midas 220 shower column



Screwpacks not shown

Midas 220 bath shower mixer



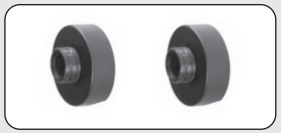
Screwpacks not shown

*Components may vary depending on product colour

MIDAS - SHOWER

INSTALLATION INSTRUCTIONS

It is essential that the written instructions 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.



The bar valve fixing kit supplied provides a method of surface siting exposed bar valves, using concealed 15mm pipe work, onto a finished wall surface.
The fixing kit is suitable for British Standard 15mm copper and various manufacturer's plastic pipe. Please ensure that the intended plastic pipe is suitable for use with compression fittings.
The valve and fixing bracket assembly MUST NOT be used as a grab rail support method.

1

Construct suitable 15mm supplies at level 150mm centres, using the tear off template provided at the back of the guide, if required. Ensure the pipework protrudes a minimum of 100mm, measured from the intended finished wall surface.

2

Once the wall surface has been finished, flush through the pipe work prior to trimming the length of the pipes 26-28mm, measured from the finished wall surface.

We recommend using a rotary type cutter but if a hacksaw is used, the pipe ends must be carefully deburred and chamfered.
Note: if plastic pipe is used, tube inserts must be fitted and must not increase the diameter or extend the cut off length by more than 2mm.
It may be easier to fit the pipe inserts AFTER fitting the copper olives.

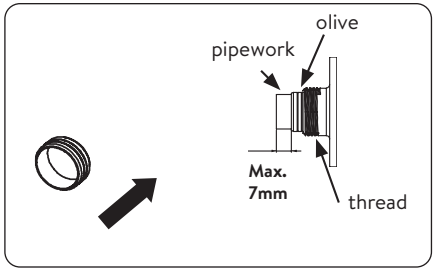
3

Place the mounting plates onto the wall over the projecting pipes and mark and prepare the fixing points, taking care to avoid drilling into the pipe work buried within the wall. Secure the mounting plates to the finished wall surface using the fixings provided if suitable.

IMPORTANT: We recommend to apply a suitable sealant around the connectors to stop water entering the wall.

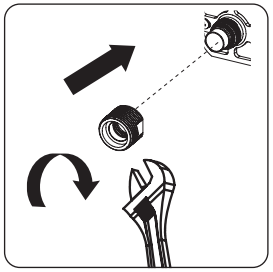
4

Place the copper olives onto the projecting pipes and connect the G¾" threaded connectors onto the mounting plates.



5

Secure the connectors onto the mounting plates using a suitable spanner and tool to support the bracket.



It is recommended to use a sheet or similar on the painted components (nuts) when adjusting and tightening.

Note: do not tighten the compression connectors onto the mounting plates against the screws as damage to the finished wall surface could occur.

Notes for installations utilising eccentric elbows (not supplied)

Eccentric elbows are available upon request by contacting the Customer Service Team, these allow for inlet pipework adjustment between 130mm – 170mm centres. Part number: 911139.



Note: eccentric elbows are only available in chrome, but are supplied with matt black cover plates.

Construct suitable connections terminating in ½" BSP female fittings. All eccentric elbows convert from ¾" to ½".

If using eccentric elbows 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.

RECOMMENDED THREAD DEPTH CHART

MD220	**Eccentric fittings from finished wall surface**	**MIN 30mm - MAX 32mm**

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



IMPORTANT: We recommend to apply a suitable sealant around the incoming pipe work to stop water entering the wall.

6

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.

7

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.

8

Place the cover plates onto the exposed ¾” threads, flush with the finished wall surface and apply a thin bead of mastic if required.



9

Ensuring the filtered rubber inlet 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.



It is recommended to use a sheet or similar on the painted components (nuts) when adjusting and tightening.

10

Ensuring the hose washer is in place, 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.



MIDAS

ADJUSTABLE HEIGHT HEAD

INSTALLATION INSTRUCTIONS

The rail kit supplied utilises a floating bracket that can be positioned to suit existing screw holes on retrofit installations.

1

1a. Adjustable Rail Kit:
Drill and prepare two fixing points up to a maximum 660mm apart, then secure the top rail bracket into position using the fixings provided, if suitable.

1b. Fixed Rail Kit:
Drill and prepare two fixing points up to a maximum 600mm apart. Secure the top and the bottom rail brackets into position using the fixings provided, if suitable.



2

2a. Adjustable Rail Kit:
Depress the single release button of the handset holder and slide onto the rail assembly.

2b. Fixed Rail Kit:
Loosen the handset holder by rotating the lever and slide onto the rail assembly, tighten again to lock into position.





If a shower head can sit within a bath, basin or shower tray, you must fit a double check valve in the supply pipework to prevent back siphonage. If the shower head can sit within a WC then the air gap should be a type AUK3 not less than 20mm or twice the diameter of the inlet pipe to the fitting, whichever is the greater.

3

3a. Adjustable Rail Kit:
Slide the rail assembly up through the top rail end bracket.

3b. Fixed Rail Kit:
Slide the rail assembly through the top bracket and lower back through bottom bracket.



4

4a. Adjustable Rail Kit:
Align the fixing hole of the bottom bracket with the corresponding holes on the rail assembly, ensuring the smaller sized hole on the rail is closest to the wall. Secure the bottom rail bracket to the wall using the fixings provided, if suitable.

4b. Fixed Rail Kit:
Align the holes in rail with fixing brackets.

5

5a. Adjustable Rail Kit:
Lining up the key-way tabs place the rail end caps into the rail end brackets and push firmly into position.

5b. Fixed Rail Kit:
(Secure bottom part of the rail by screwing in the cap followed by top cap).
Note: The rail end caps needs to be screwed.



6

Shower Head Attachment

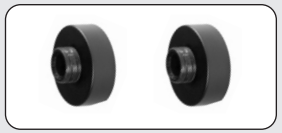
Ensuring the hose washers are in the correct position, secure the handset to the hose. Once tightened, place the handset into the handset holder.

Note: the conical end of the hose connects to the shower head.



INSTALLATION INSTRUCTIONS

It is essential that the written instructions 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. The bar valve fixing kit supplied provides a method of surface siting exposed bar valves, using concealed 15mm pipe work, onto a finished wall surface.



The fixing kit is suitable for British Standard 15mm copper and various manufacturer's plastic pipe. Please ensure that the intended plastic pipe is suitable for use with compression fittings.
The valve and fixing bracket assembly MUST NOT be used as a grab rail support method.

SHOWER COLUMN PREPARATION AND HEIGHT ADJUSTMENT

Prior to commencing, measurements must be made in preparation for fitting the shower column. Ensure that the shower will be in a comfortable position for all users and the shower column fits within the height restrictions of the proposed siting. This product incorporates an adjustable height (telescopic) shower column. Height adjustment: *770 - 1400mm. Refer to point 12 for instruction.

***Measured from the top of the bar valve to the top of the arm.**

The maximum height for the handset holder is limited to the bottom of the rail bracket.

1

Construct suitable 15mm supplies at level 150mm centres, using the tear off template provided at the back of the guide, if required. Ensure the pipework protrudes a minimum of 100mm, measured from the intended finished wall surface.

2

Once the wall surface has been finished, flush through the pipe work prior to trimming the length of the pipes 26-28mm, measured from the finished wall surface.

We recommend using a rotary type cutter but if a hacksaw is used, the pipe ends must be carefully deburred and chamfered.
Note: if plastic pipe is used, tube inserts must be fitted and must not increase the diameter or extend the cut off length by more than 2mm.
It may be easier to fit the pipe inserts AFTER fitting the copper olives.

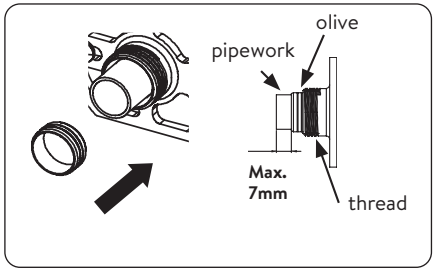
3

Place the mounting plates onto the wall over the projecting pipes and mark and prepare the fixing points, taking care to avoid drilling into the pipe work buried within the wall. Secure the mounting plates to the finished wall surface using the fixings provided if suitable.

IMPORTANT: We recommend to apply a suitable sealant around the incoming pipe work to stop water entering the wall.

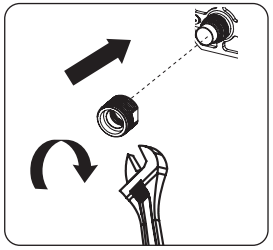
4

Place the copper olives onto the projecting pipes and connect the G¾" threaded connectors onto the mounting plates.



5

Secure the connectors onto the mounting plates using a suitable spanner and tool to support the bracket.



It is recommended to use a sheet or similar on the painted components (nuts) when adjusting and tightening.

Note: do not tighten the compression connectors onto the mounting plates against the screws as damage to the finished wall surface could occur.



If using eccentric elbows - refer to special notes on page 13.

6

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.

7

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.

8

Place the cover plates onto the exposed ¾" threads, flush with the finished wall surface and apply a thin bead of mastic if required.



9

Ensuring the filtered rubber inlet 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.



It is recommended to use a sheet or similar on the painted components (nuts) when adjusting and tightening.

10

Screw the wall stay rod into the rail bracket.



11

Slide the black and brass wall stay over the wall stay rod and temporarily secure by gently tightening the grub screw.



12

Position the shower column assembly on the bar valve outlet, hand tighten the nut to allow enough free movement to gauge a fit.



It is recommended to use a sheet or similar on the painted components (nuts) when adjusting and tightening.

13

The telescopic section of the riser can adjust the height between 770 - 1400mm (measured from the top of the bar valve to the highest point of the arm). To adjust, loosen the nut (which has two flat edges) on the rail bracket; adjust to the desired height and re-tighten.



It is recommended to use a sheet or similar on the painted components (nuts) when adjusting and tightening.

14

Ensuring the riser rail is straight, adjust the length of the wall stay rod so the shower column is parallel to the wall. Making sure the nut is not loose on the bar valve, mark the fixing holes for wall fixing bracket. Remove the shower column rail assembly from the valve and remove the fixing bracket from the wall stay rod.



15

Prepare the fixing points using the fixings provided, if suitable. Secure the fixing bracket to the wall using the screws provided, if suitable, then ensuring the rubber grommet is in positioned in the cover plate, attach the cover plate.



Position the wall fixing bracket so that the grub screw is underneath and out of view.

16

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



It is recommended to use a sheet or similar on the painted components (nuts) when adjusting and tightening.

17

Re-position the riser rail assembly onto the bar valve outlet and align the wall stay rod with the fixing bracket. Tighten the fixing nut using a suitable tool, taking care not to overtighten.



It is recommended to use a sheet or similar on the painted components (nuts) when adjusting and tightening.

18

Position the wall stay rod so it engages into the wall fixing bracket and secure via the grub screw on the wall fixing bracket using the hexagonal key provided.



19

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.



Shower Head Attachment

20

Ensuring the hose washers are in the correct position, secure the handset to the hose. Once tightened, place the handset into the handset holder.

Note: the conical end of the hose connects to the shower head.



MIDAS

BATH SHOWER MIXER - DECK MOUNT

INSTALLATION INSTRUCTIONS

The Midas range bath shower mixers feature inlet pipe centres of 150mm. However deck mount adaptors are provided to allow installation to baths at standard 180mm centres.
Note: for wall mounted installation refer to page 25.

1

Ensuring the filtered rubber inlet 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.



It is recommended to use a sheet or similar on the painted components (nuts) when adjusting and tightening.

2

Place the rubber deck 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 and attach the hose, ensuring the hose washer is in place.

6

Follow the adjustable height head installation on page 15 to complete the installation.

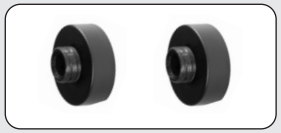
If required, refer to the commissioning instructions on page 31 to adjust the maximum temperature override button position.

MIDAS BATH SHOWER MIXER - WALL MOUNT

Wall mounted fixings are not supplied with the BSM model, these are available by contacting the Aqualisa customer service team. Part number: 911142.

INSTALLATION INSTRUCTIONS

It is essential that the written instructions 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.
The bar valve fixing kit supplied provides a method of surface siting exposed bar valves, using concealed 15mm pipe work, onto a finished wall surface.
The fixing kit is suitable for British Standard 15mm copper and various manufacturer's plastic pipe. Please ensure that the intended plastic pipe is suitable for use with compression fittings.
The valve and fixing bracket assembly MUST NOT be used as a grab rail support method.



1

Construct suitable 15mm supplies at level 150mm centres, using the tear off template provided at the back of the guide, if required. Ensure the pipework protrudes a minimum of 100mm, measured from the intended finished wall surface.

2

Once the wall surface has been finished, flush through the pipe work prior to trimming the length of the pipes 26-28mm, measured from the finished wall surface.

We recommend using a rotary type cutter but if a hacksaw is used, the pipe ends must be carefully deburred and chamfered.
Note: if plastic pipe is used, tube inserts must be fitted and must not increase the diameter or extend the cut off length by more than 2mm.
It may be easier to fit the pipe inserts AFTER fitting the copper olives.

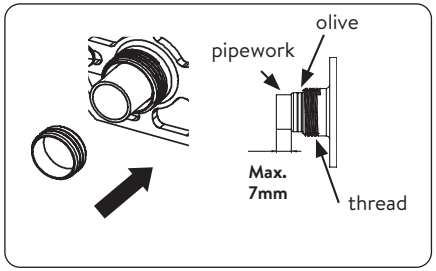
3

Place the mounting plates onto the wall over the projecting pipes and mark and prepare the fixing points, taking care to avoid drilling into the pipe work buried within the wall. Secure the mounting plates to the finished wall surface using the fixings provided if suitable.

IMPORTANT: We recommend to apply a suitable sealant around the connectors to stop water entering the wall.

4

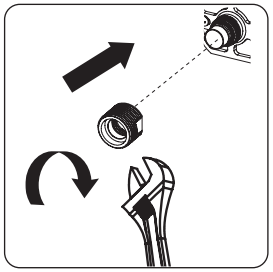
Place the copper olives onto the projecting pipes and connect the G¾" threaded connectors onto the mounting plates.



5

Secure the connectors onto the mounting plates using a suitable spanner and tool to support the bracket.

It is recommended to use a sheet or similar on the painted components (nuts) when adjusting and tightening.



Note: do not tighten the compression connectors onto the mounting plates against the screws as damage to the finished wall surface could occur.

6

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.

7

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.

8

If required, 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.



9

Ensuring the filtered rubber inlet 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.



It is recommended to use a sheet or similar on the painted components (nuts) when adjusting and tightening.

10

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 and attach the hose, ensuring the hose washer is in place.

11

Follow the adjustable height head installation on page 15 to complete the installation.

If required, refer to the commissioning instructions on page 31 to adjust the maximum temperature override button position.

USER GUIDE

MIDAS RANGE

VALVE

1 Temperature control



Left side control knob as viewed from the front

The valve is in the mid blend position when the temperature override button is at the top. The shower's outlet temperature may vary to the indicator, depending on the temperature of the incoming supplies. Using the temperature markings as a guide, depress the temperature override button and slowly rotate the knob towards the wall to increase the temperature and away from the wall to decrease the temperature.

NOTE: SHOULD IT BE NECESSARY TO RESET THE MAXIMUM TEMPERATURE POSITION, PLEASE REFER TO THE COMMISSIONING INSTRUCTIONS ON PAGE 31.

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

2 Shower On/Off/Flow control



Right side control knob as viewed from the front

Turn the valve on by carefully rotating the flow control knob away from the wall until the required volume of flow is reached. Turn the valve off by rotating the flow control knob towards the wall until a stop is reached.

NOTE: WITH ALL MIDAS VALVES 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.

3 220 Shower Column & BSM/On/Off/Flow/divert

Right side control knob as viewed from the front

Turn the valve on by rotating the control knob towards the wall to operate the fixed head/bath filler, or away from the wall to operate the adjustable height head. Turn the valve off by rotating the control knob to the centre until a stop is reached and the nodule is pointing upwards.

SHOWER HEAD

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



To select the preferred height for the shower head:

Adjustable rail kit: depress the handset holder button to enable the slider to be moved up or down the rail.

Shower column: loosen the handset holder by rotating the lever; the slider can then be moved up or down the rail, tighten again to lock into position.



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

Note: for the push button model the tension of the handset holder can be adjusted with a screwdriver.



3 Rotate the spray plate lever clockwise or anti-clockwise to select the desired spray pattern.



SHOWER COLUMN HEIGHT ADJUSTMENT

The Midas 220SC product incorporates an adjustable height (telescopic) shower column.

Refer to point 13, page 21 for details and instruction.

CLEANING & MAINTENANCE

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

Your Midas shower system should be cleaned using only a soft cloth and washing up liquid.

Whilst modern plating and coating techniques are used in the manufacture of these fittings, the coating will wear if not cleaned properly. The safest way to clean your product is to wipe with a soft damp cloth. Stains can be removed using washing up liquid.

DO NOT USE: Scouring pads, abrasive cloths or cleaners and cleaning agents that contain acids or bleach.

LIMESCALE

Rub the nozzles of the shower head to break down scale build up. Should chemical descaling of the head become necessary, remove the shower head fully and immerse in a mild proprietary descaler.

PRESERVING YOUR WARRANTY

Upkeep and Cleaning of your shower valve.

A build-up of limescale and soap deposits have an impact on the aesthetics and working components of the shower valve, these are not covered under the terms and conditions of the warranty.

Follow the customer cleaning guide opposite to ensure your product remains in good working order and is covered under guarantee.

CUSTOMER CLEANING GUIDE

Action	Reason	Frequency
Turn temperature knob fully forward and fully backward 2-3 times.	Exercises cartridge to free scale build up.	At least once a week.
Turn on/off knob to on position and off position 2-3 times.	Exercises cartridge to free scale build up.	At least once a week.
De-press temperature override button 2-3 times.	Frees up scale build up.	At least once a week.
Apply plant based/non-bleach based cleaner to all surfaces and work into moving parts.	Removes scale build/ provides a protective layer	At least once a month
Wipe dry bar valve, shower hose and head with microfibre cloth	Removes residual water which reduces build up	After every shower

MIDAS RANGE COMMISSIONING

THE MIDAS 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 an accurate thermometer, adjust the temperature control to the required MAXIMUM temperature setting. We recommend the MAXIMUM outlet temperature is set to 46°C.

Adjust the temperature by small movements of the central spline hotter or colder as required. One spline adjustment is approximately 2°C. If required, rotate one spline at a time and check outlet temperature. Note: for factory settings markings are aligned, see image 1.



Image 1.



Image 2.

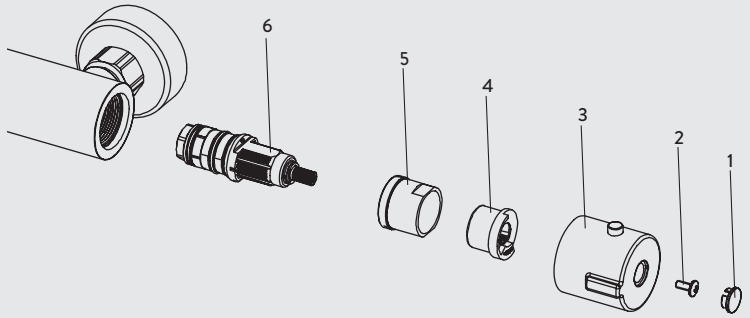
7. Turn the valve off.
8. Ensuring the temperature override button is pushed in, replace the knob onto the valve in the mid blend position.
9. Secure the knob to the valve and refit the knob insert.

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..

GENERAL MAINTENANCE

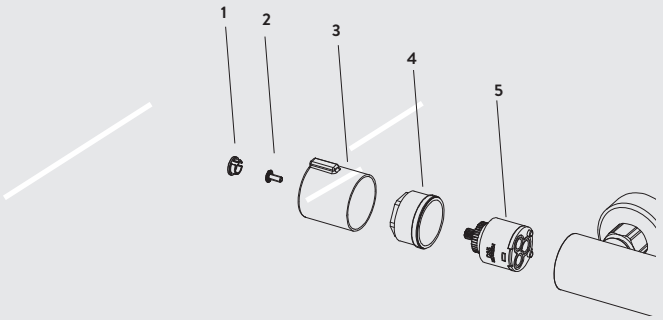
Cleaning the thermostatic cartridge

1. Before carrying out any maintenance, ensure the water supplies are isolated. Once isolated, turn the shower on to release internal pressure. If unsure contact a qualified tradesman.
2. Carefully remove the cap (1), loosen the screw (2), then remove the temperature knob (3).
3. Note the position of the temperature override stop and thermostatic cartridge before removal as they must be refitted in the same position. Once noted, remove the temperature override stop (4) from the cartridge. Remove the retaining nut (5) using a suitable spanner, remove and clean the thermostatic cartridge (6) rinsing thoroughly under cold water to remove any build up of limescale or debris.
4. If necessary, replace the cartridge. A replacement cartridge can be obtained by contacting customer service on 01959 560010.
5. Refit the cartridge (6) into the bar valve body, tighten the retaining nut (5) using a suitable spanner and refit the temperature override stop (4).
6. Refit the temperature knob (3) by depressing the temperature override safety button and carefully pushing the knob into place with the button at the 12 o'clock position. Tighten the screw (2) and fit the cap (1).
7. Reinstate the water supply and ensure there are no leaks.



Cleaning the on/off divert headworks (image overleaf)

1. Before carrying out any maintenance, ensure the mains water supply is isolated. Once isolated, turn the shower on to release internal pressure. If unsure contact a qualified tradesman.
2. Carefully remove the cap (1), loosen the screw (2), then remove the control knob (3).
3. Using an suitable spanner, unscrew the brass retaining nut (4), then remove the On/Off Divert headworks (5).
4. Clean the headworks by rinsing thoroughly under cold water to remove any build up of limescale or debris.
5. If necessary, replace the On/Off Divert control headworks. A replacement can be obtained by contacting customer service on 01959 560010.
6. Refit the headworks ensuring the locating lugs align correctly, then screw on the retaining nut - hand tight then nip up using a suitable spanner. DO NOT OVERTIGHTEN.
7. Re-fit the control knob (3). Tighten the screw (2) and fit the cap (1).



8. Reinstate the water supply and ensure there are no leaks.

Inlet filters

The product is protected by inlet filter washers. It is suggested that filters are checked by a competent person at least every 12 months.

TROUBLE SHOOTING GUIDE

Symptom	Possible Cause	Remedy
Only hot or cold water from the shower valve outlet.	Partially closed stop or service valve in water supply pipework to the shower valve.	Open stop or service valve.
	Inlet filter is partially blocked.	Clean or replace, flush through pipework before refitting.
	Inlet water supplies are reversed (hot to cold supply).	Check the connections are the correct way round. Hot on the left and cold on the right when viewed from the front. Rework pipework as necessary.
Maximum water temperature too hot or cold.	Maximum water temperature set incorrectly.	Reset maximum water temperature. Refer to Commissioning instructions on page 31.
Water leaking from shower head.	This is normal for a short time after turning off.	Adjust angle of shower head in holder as necessary to vary draining time. Clean shower head.
	Shower flow valve failing to close fully, possibly due to water borne debris.	Contact Customer Service team.
No flow or low flow rate and/ or varying temperatures.	Check shower head, hose and filters for any blockage.	Clean as necessary.
	Partially closed stop or service valve in water supply pipework to the shower valve.	Open stop or service valve.
	Instantaneous water heater cycles on and off as the flow rate or pressure is too low.	Increase water flow rate or pressure through system. Contact the boiler manufacturer.
	Head of water is below the minimum distance required to activate pump.	Raise the cistern or fit a universal booster pump.
	Inlet filter is partially blocked.	Clean or replace, flush through pipework before refitting.
	Hot or cold water being drawn off elsewhere causing pressure changes or instantaneous boiler temperature changes.	Do not use other water outlets when using the shower.
	Make sure the maintained inlet pressures are nominally balanced and sufficient.	Refer to water supply requirements (Pressures) on page 5.
	No hot or cold water reaching the shower valve.	Check hot and cold feeds (the valve will shut down if either the hot or cold supply fails).

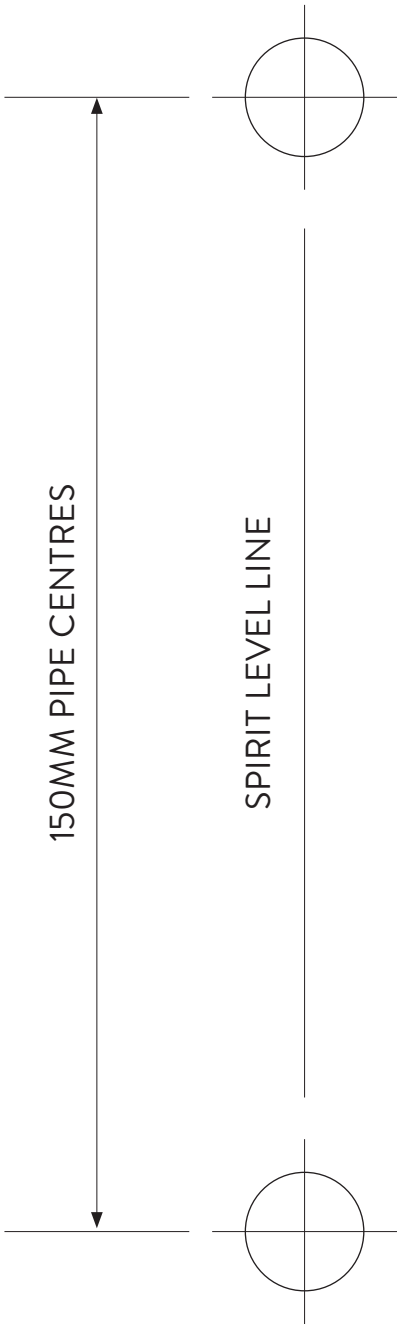
TROUBLE SHOOTING GUIDE

Symptom	Possible Cause	Remedy
Outlet water temperature too hot/cold.	Inlet filter is partially blocked.	Check inlet filters for any blockages and clean as necessary.
	Installation conditions outside operating parameters.	Refer to water supply requirements (page 5). Refer to Commissioning instructions (page 31).
	Hot water temperature is less than 10°C above the required blend temperature.	Adjust hot water temperature or wait for water to reheat if stored system is used.
	Instantaneous water heater not igniting because water flow rate is too low.	Increase water flow rate through the system. Check inlet filters and clean or replace. Contact the boiler manufacturer.
Handset holder tight/loose.	Requires adjustment.	Use cross head screwdriver in handset holder to adjust.
Control dials stiff to operate.	Debris/Scale build up.	Contact Customer Service team.
Stiff to operate - Temperature knob.	Scale build-up on internal thermostatic cartridge.	Run shower and rotate the temperature control knob from full hot to full cold. See Cleaning and Maintenance (page 30).
		Remove cartridge and clean. See General Maintenance (page XX).
Stiff to operate – On/Off.	Build-up of scale deposits due to shower not being used regularly.	Run shower and rotate the on/off control knob from closed to fully open (back and forth) See Cleaning and Maintenance (page 30).
	Scale build-up on internal headworks.	Remove headworks and clean. See General Maintenance (page 30).
Temperature override button stiff.	Build-up of scale and soap deposits.	Use non bleach-based cleaning agent and spray into area of the override button, allow to penetrate and then depress override button several times to loosen the mechanism. See Cleaning and Maintenance (page 30)
		Remove control knob and clean inside, silicone grease can be applied to the internal mechanism (see page 30).
		Replace control knob – call customer service team to order a replacement.

NOTES

NOTES

PIPEWORK FIXING TEMPLATE



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Part No: 705818 Issue 03 August 24