

IMPORTANT – CARE OF YOUR PRODUCT CLEANING

After use all finishes should be maintained by wiping with a soft, damp, clean cloth and then polished using a dry duster. NO abrasive powder, detergents or polishes should be used. Cleaner containing alcohol, acid or corrosive chemicals should not be used.

NOTE

- Some household bleaches and denture cleaners can damage plated or coloured finishes and if splashed onto a fitting should be immediately washed off with cold water.
- If these instructions are followed we believe this fitting will give many years of satisfactory use.
- We have a policy of continuous improvement and reserve the right to change specification without notice.

GUARANTEE

This shower mixer is guaranteed for a period of 2 years against any defects of materials and workmanship from date of purchase, subject to correct installation, maintenance and use in accordance with this instruction leaflet. Please retain proof of purchase.

During the guarantee period parts will be replaced or repaired at our option. No labour costs will be reimbursed unless prior agreement has been obtained in writing.

This guarantee is offered as an extra benefit and does not affect your statutory rights as a consumer in any way whatsoever.

BUILT-IN THERMOSTATIC MIXER WITH INTEGRATED TWO-WAY DIVERTER



06.'07

Art.23H13

TROUBLESHOOTING

1) REDUCED FLOW RATE

Cause: The inlet filters of the mixer and/or the cartridge are obstructed.

Solution: Cleaning filters and/or cartridge: refer to “CARTRIDGE CHANGE AND CLEANING”

Cleaning mixer filters: refer to “FILTER CLEANING”.

2) WRONG SETTING OF THE CARTRIDGE

Causes: The mixer is factory preset at 2,5-3 bar and at a temperature of 60-65°C for hot water and 10-15°C for the cold one corresponding to a mixing temperature of 38°C. In every domestic installation temperatures and inlets pressures can differ from those of production.

Solutions: Take the water temperature, using a common thermometer for domestic use. Remove the temperature control handle. Turn the broached ring of the cartridge until the blended water reaches the desired temperature. Re-assemble the temperature control handle.

3) CONTINUOUS TEMPERATURE OSCILLATIONS

Cause: The mixer has been installed with the inverted inlets.

Solution: Close the main water supply Remove the valve body: refer to “FILTER CLEANING” Rotate the valve body reverse the outlet Re-install the valve body.

4) INCORRECT WORKING OF THE MIXING

Cause: The filters of the cartridge are dirty

Solution: Refer to the “CARTRIDGE CHANGE AND CLEANING”

5) THE MIXER LEAKS WHILE IN SHUT OFF

Cause: the ceramic discs are damaged or there are impurities on their surface

Solution: replace the ceramic discs following : refer to REPLACEMENT OF CLOSURE CERAMIC DISCS

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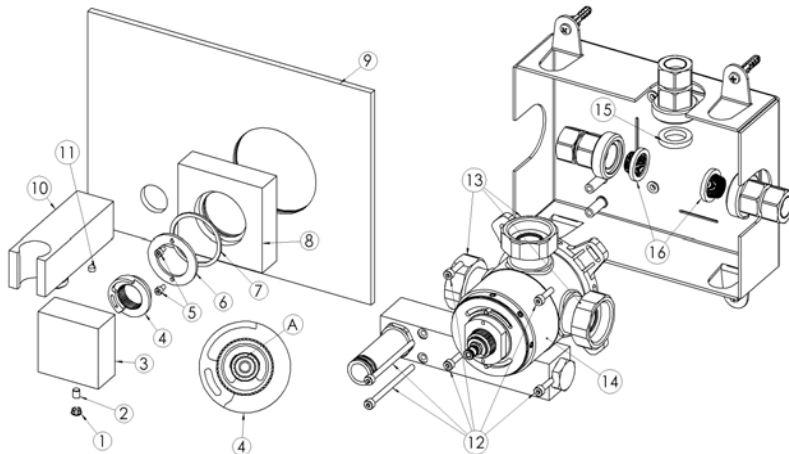
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FILTER CLEANING

Through years of use impurities and limescale could restrict flow of water through the filters

To clean it follow the instructions hereunder:

- **Shut off water supply to both inlets.**
- Remove the cup (1) and the grub screw (2). Take off the temperature control knob (3).
- Remove the stepped plastic washer (4).
- Remove the screw (5) with an Allen key 2,5 mm, remove the ring (6), the teflon ring (7) and take off the closure ring (8).
- Unscrew the grub screws (9) with an Allen key 2.5 mm.
- Remove the shower holder (10) and the cover plate (11).
- Unscrew the screws (12).
- Unscrew the three nuts (13) of the two inlets and the one outlet and remove the valve body (14).
- Attention not to lose the gasket (15), remove the two filters (16) from connections.
- Wash filters under running water or leave them to soak in vinegar or descaling agent.
- Re-assemble the two filters (16) and the gaskets (15).
- Re-assemble the valve body (14) into the wall and screw the nuts (13).
- Screw the screws (12).
- Re-assemble the cover plate (11), the shower holder (10).
- Screw the grub screws (9).
- Re-fix the closure ring, the teflon ring and the ring with the 2 screws, the stepped plastic washer (4)
- Re-assemble the temperature control knob (3), the grub screw (2) and the cup (1).



OPERATING SPECIFICATIONS

Hot water supply temperature

Maximum: 85°C

Minimum: 5°C Higher than maximum required mixer temperature.

Advisable: 65°C

Minimum difference between hot and mixed temperature is 10°C.

Operating Pressure

Maximum: 5 Bar

Minimum: 0.1 Bar

Hot and Cold Operating pressure should be kept as balanced as possible in order to maintain maximum efficiency.

When the supply pressure is higher than a 5 Bar a pressure reducing valve should be fitted before the shower valve.

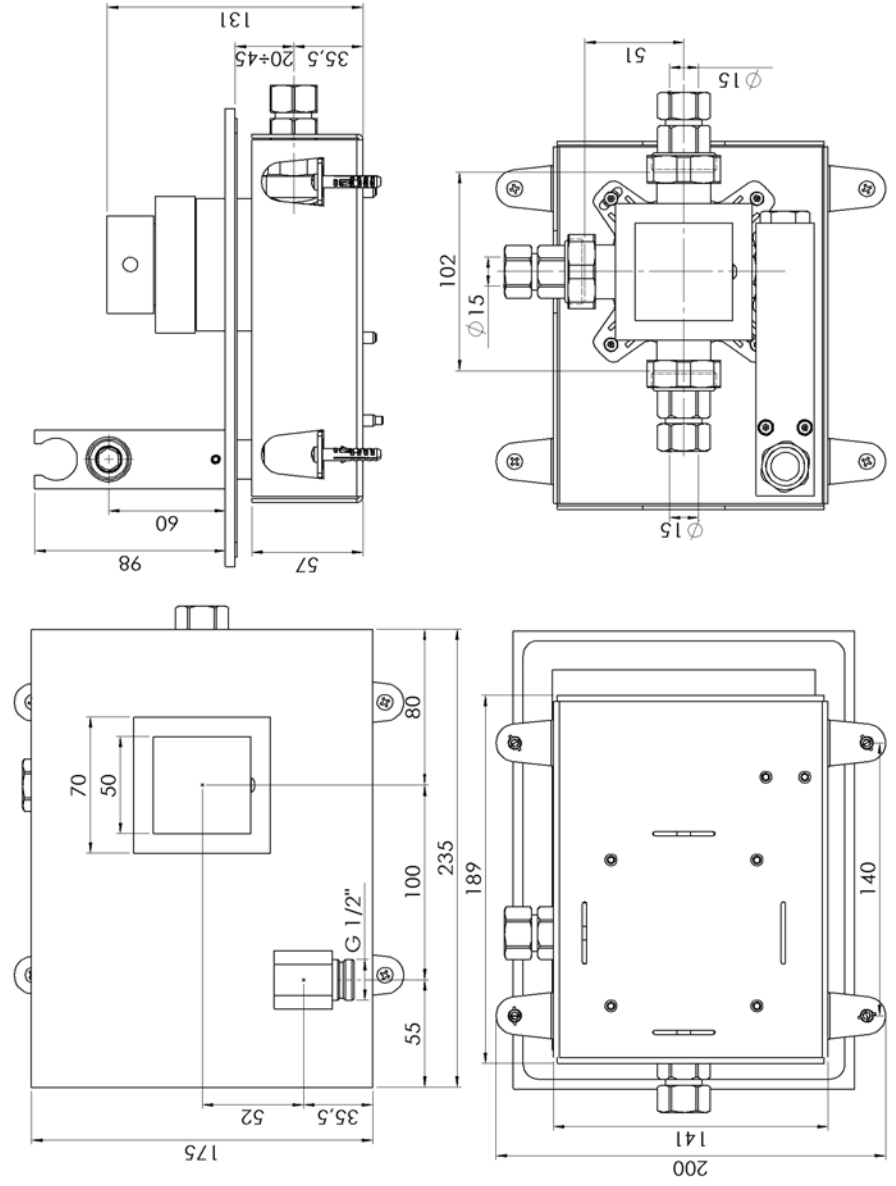
PLUMBING RECOMMENDATIONS

- An independent hot and cold water supply is required for the shower system (do not pipe off ring main) please refer to installation diagrams.
- Large runs of pipe work will cause frictional loss of pressure.
- The recommended pipe work from both cylinder and water tank should be 22mm minimum for low-pressure systems.
- If more than one shower valve is installed the minimum feed from tank and cylinder should be 28mm. (Ensure adequate supply of both hot and cold water can be maintained).
- In installations where a pump is required, install pump before shower mixer inlets

WATER BYE LAWS

The mixing valve should be installed in accordance with the water bye laws. For further details refer to the latest copy of Water Bye Laws guide or your local water authority.

The eventual stiffness of the closure handle, that might occur after a period of not utilization, could easily be solved by opening and closing the handle a few times.



GENERAL CHARACTERISTICS

This thermostatic mixer is a concentric built-in valve with integrated two-way diverter and shut off.

The mixer valve has two regulation knobs: one for the temperature, one for the closure.

The regulation knob controls the temperature of the outlet water.

By rotating the handle clock wise the water temperature decreases to cold. On the contrary, by rotating the handle anti clock wise the temperature of the water increases till the maximum pre set temperature fixed by the manufacturer (43°C to avoid scolding).

The flow regulation knob controls the flow of both outlets. When the handle is in vertical position the valve is off. The rotation of the handle clock wise determines the flow of the upper outlet. The rotation of the handle on the other way round controls the flow of the bottom outlet.

Read the instructions before installation.

The valve needs to be installed by trained staff.

Subject to correct installation, this mixer is suitable for any water heating system. In case of instantaneous heaters, hot water flow has to meet at least the minimum flow required by the heater to start and go on burning (see heater specifications).

TECHNICAL DATA

Inlets are connected with two elbows provided with olive nuts for Ø15 mm. pipes. The inlet cold water is on the right identified by a blue nut. The inlet hot water is on the left and identified with a red nut.

The regulation handle is set at 38°C and a pre set maximum temperature fixed at 43°C to avoid scolding..

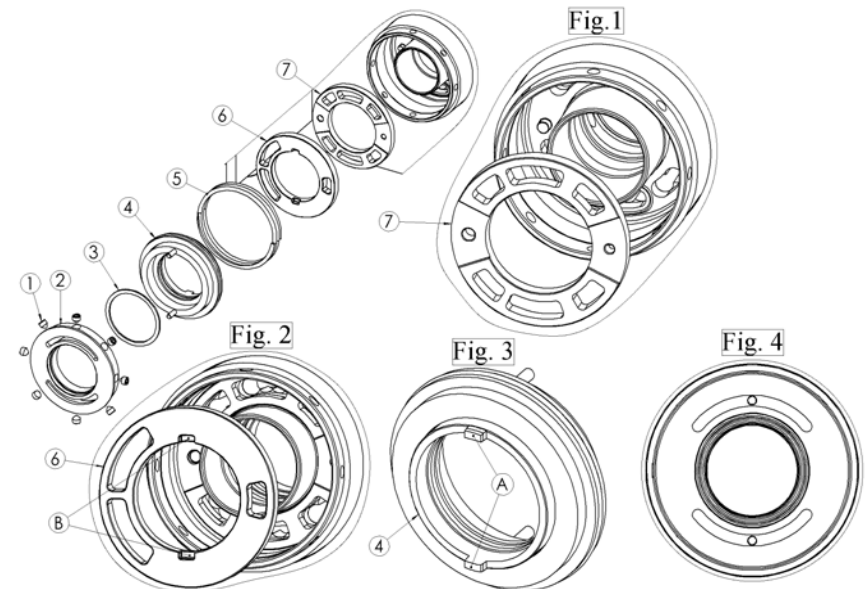
The setting of the temperature has been performed by the manufacturer in accordance with the UNI EN 1111 norm.

The connection of the two outlets its made by two straight connectors provided with olive nuts for Ø15 mm. pipes.

REPLACEMENT OF CLOSURE CERAMIC DISCS

In the event of the valve not shutting off properly, please proceed with the replacement of the ceramic discs.

- Follow the instructions for CARTRIDGE CHANGE AND CLEANING up to point five in order to remove handle and
- Remove the 8 grub screws (1) and the upper flange (2).
- Remove the bronze ring (3).
- Remove the element (4) and the spring (5).
- Remove the upper ceramic disc (6).
- Remove the lower ceramic disc (7).
- Replace the mentioned discs with the new ones supplied by the manufacturers
- Insert the lower ceramic disc (7). Attention: position must be exactly as shown in the picture [Fig. 1] (the biggest hole on the left).
- Insert the upper ceramic disc (6). Attention: position must be exactly as shown in the picture [Fig. 2].
- Insert the spring (5).
- Insert the element (4). Attention: be sure to insert the small blocks (A) [Fig. 3] within the sits (B) [Fig. 2] on the upper ceramic disc (6).
- Insert the bronze ring (3).
- Insert the upper flange (2) as shown in the picture [Fig. 4], fix the 8 grub screws (1).
- Follow the instructions at the point CARTRIDGE CHANGE AND CLEANING, to reassemble the cartridge and the handles.

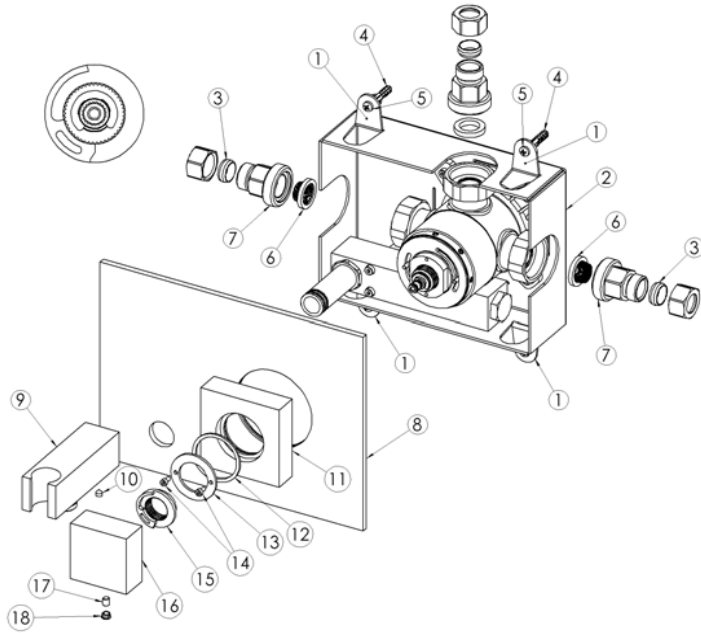


INSTALLATION

Please follow carefully the instructions

The hot water inlet must be on the left side of the mixer

- Retain the plastic cover on the outside of the mixer body to prevent damage during installation.
- Open the supports(1) and place the metal box (2). Take care to place the box in an horizontal.
- Plumb the hot and cold water pipes and mixed water outlet to the desired mixer position. Please refer to the dimensional drawing showing the position of the mixer inlets, outlet and how to determine the centre of the mixer wall mounting plate.
- Fit the inlet compression fittings (3) to the ends of the pipe work.
- Drill the fixing holes in the wall $\varnothing 6$ and insert the wall plugs (4).
- Place the the metal box (2) into the wall and secure with the fixing screws (5).
- Fitting the filters (6) as shown. Tighten the mixer connections (7).
- Remove the plastic cover from the mixer body and fit the front cover plate (8).
- Fit the shower holder (9) screw the grub screws (10)
- Fit the closure ring (11), the teflon ring (12), the ring (13) and the screw (14).
- Re-assemble the stepped plastic washer (15), the temperature control knob (16), the grub screw (17) and the cup (18).



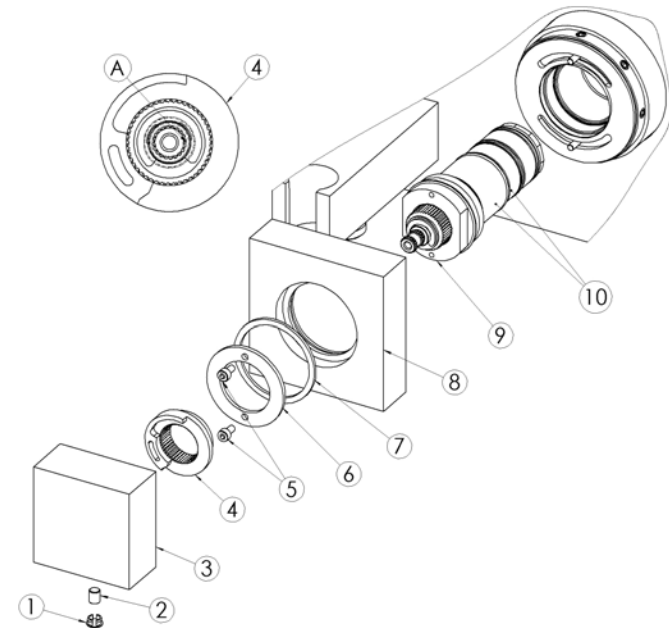
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CARTRIDGE CHANGE AND CLEANING

Through years of use impurities and limescale could restrict flow of water through the filters of the cartridge.

To clean it follow the instructions hereunder:

- **Shut off water supply to both inlets.**
- Remove the cup (1) and the grub screw (2). Take off the temperature control knob (3).
- Remove the stepped plastic washer (4).
- Remove the screw (5) with an Allen key 2,5 mm, remove the ring (6), the teflon ring (7) and take off the closure ring (8).
- Unscrew the cartridge (9) with a 30mm spanner.
- Wash the filters (10) under running water or leave to soak in vinegar or descaling agent.
- Before re-assembling the cartridge (9), clean its housing and grease the O-rings on the cartridge
- Re-assemble the cartridge (9), the closure ring (8), the teflon ring (7), the ring (6) and the screw (5).
- Re-assemble the stepped plastic washer (4) according to the drawing and turn spindle (A) until you reach required temperature (38°C).
- Re-assemble the temperature control knob (3), the grub screw (2) and the cup (1).



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