

## CARTRIDGE RE-SETTING

The mixer is factory set under balanced pressure and hot water supply at 65°C. This means that with the chrome button in stopped position hot water temperature is of 38°C; by pressing the chrome button you can reach higher temperatures. Anyway the temperature can be adjusted for site conditions or personal preference. In order to do this, proceed as follows:

1. Use a common household thermometer to test water temperature.
2. Remove the regulator handle (19) by prising off indice (28) and undoing grub screw (13).
3. Remove the shroud (35).
4. Turn the cartridge spindle (7) clockwise or anticlockwise until the temperature of maximum 38°C is reached, paying attention not to damage the broached part.
5. Place the regulator handle (19) paying attention that the button (30) is directed downwards.
6. Fix it by means of the grub screw (13) and place the indice (28).
7. If you followed the above procedure correctly, the maximum water temperature in stopped position is 38°C; then by pressing the chrome button (30), the highest temperature allowed can be reached. If this is not the case, please follow the procedure again.

## GUARANTEE

The shower valve is guaranteed for a period of 5 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.

- Those components subject to wear and tear such as 'O' rings and washers etc.
- Damage caused by faulty installation or maintenance
- Damage caused by any waterborne debris
- Damage caused by improper cleaning products
- The product being used for a purpose other than intended
- Damage caused by other products or materials
- Damage caused by frost; product should be adequately drained in freezing conditions

## AFTERCARE INSTRUCTIONS

Whilst modern plating techniques are used in the manufacture of this item, the surfaces will wear if not cleaned correctly. Clean this product with a soft cloth and clean water. The use of any abrasive material will invalidate the guarantee.

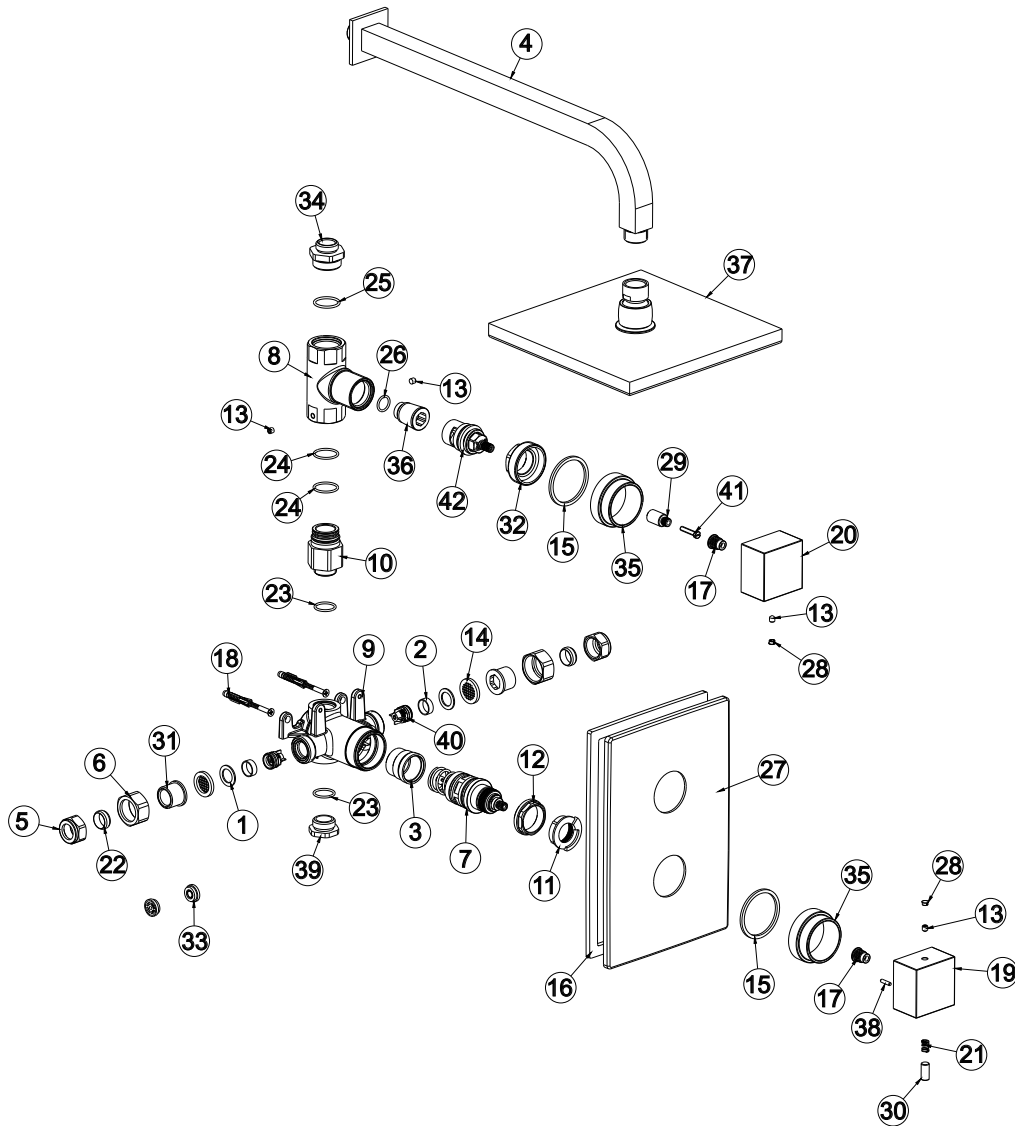
# MORETTI®



SKU 80848

**Moretti Quadratto dual control thermostatic mixer and shower arm with shower rose**

## TROUBLESHOOTING



DEFECT	CAUSE	SOLUTION
The mixer does not deliver water	Water supply is shut off	Open the water supply
	Lack of pressure in the system	Make sure to have enough pressure to feed the mixer
	Due to the lack of cold water, the mixer did the safety shut off	Re-open the supply of cold water
Poor flow	Water supply is not completely open	Fully open the water supply
	Dirty or damaged filters	Clean or replace filters
	Dirty or damaged shower kit accessories	Clean or replace the accessories
Mixer drips	On/off valve faulty	Replace the on/off valve
	Pressure is too high	Reduce the pressure in the main system
The control handles are stiff to turn	Lack of grease on the cartridge or the on/off valve	Re-grease cartridge or on/off valve
	Pressures exceed 5 bar	Fit a pressure reducer before the mixer (in the main system)
	Too calcareous water	Clean or replace the cartridge
Temperature oscillations	Unbalanced pressures	Review or renew supply source
	Recommended working specifications have not been observed	Check the recommended specifications
	The hot water supplied by the boiler is not enough	Adjust the system
Mixed temperature higher than 42°C	Cartridge is out of setting	Re-set the cartridge
Failure of the safety shut off	The cartridge is damaged	Replace the cartridge
No mixed water, only hot or cold	Hot water supplied to the wrong side of the mixer	Reverse water supplies

## MAINTENANCE

Through years of use impurities and limescale can restrict the flow of water through the mixer. If the mixer's performance deteriorates the filters or the cartridge may need to be cleaned or replaced.

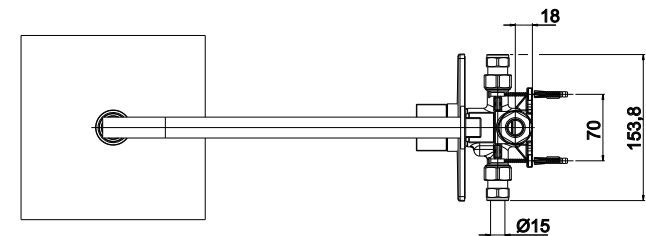
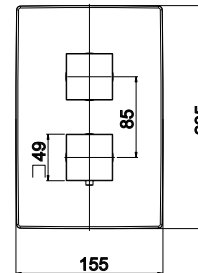
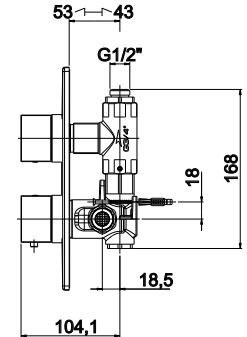
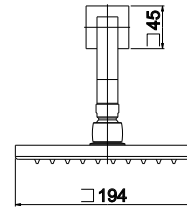
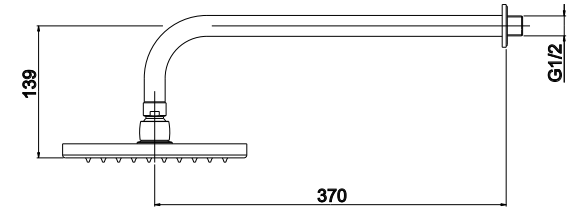
In order to do this, please follow the following procedures:

### FILTER CHANGE AND CLEANING

1. Shut down water supply to mixer.
2. Unscrew the connector assembly (composed of part no. 5, 22, 6, 31, 14, 1 and 2) on the mixer.
3. The filters (14) are located in the connector nut (6): carefully remove them.
4. Wash filters under running water or leave to soak in vinegar or de-scaling agent.
5. Refit the filters.
6. See paragraph "PLUMBING & INSTALLATION" for refitting valve.

### CARTRIDGE CHANGE AND CLEANING

1. Shut down water supply to the mixer.
2. Remove the indice (28) on the regulator handle (19). Undo grub screw (13) and remove the handle from the mixer body.
3. Remove the stop ring (11) and unscrew the locking nut (12).
4. Unscrew and remove the cartridge (7) from mixer being careful not to damage the seals. Wash the cartridge under running water or leave to soak in vinegar or de-scaling agent.
5. Before refitting the cartridge, clean the mixer housing and grease the cartridge o-rings.
6. Re-fit the cartridge (7) and screw the locking nut (12) on it.
7. Turn the water supply back on. Measure water temperature with a thermometer. Set the mixed flow temperature at max 38°C; to do this please refer to paragraph "CARTRIDGE RE-SETTING".
8. Re-fit the stop ring (11) in the same position as shown in the exploded drawing.
9. Re-fit the regulator handle (19), fix it by means of the grub screw (13) and place the indice (28). Pay attention that the button (30) is directed downwards.



## TECHNICAL FEATURES

### OPERATING SPECIFICATIONS

Maximum cold supply: **25°**

Maximum hot supply: **80°C**

Minimum hot supply: **10°C higher than maximum required mixer temperature**

Advisable hot supply: **55-65°C**

Minimum difference between hot and mixed temperature: **10°C**

Mixed water: **42°**

### Operating Pressure Criteria

	<b>BS EN 1287 (low pressure)</b>	<b>BS EN 1111 (high pressure)</b>
Pressure Range:	<b>0.1 bar - 1 bar</b>	<b>0.5 bar - 5 bar</b>
Max static:	<b>10 bar</b>	<b>10 bar</b>

Recommended working pressure 0.3 - 3 bar

Operating pressures (on hot and cold line) should be kept as balanced as possible, and from a common source, in order to ensure the maximum efficiency of the mixer. To reduce the flow rate, when the mixer is fitted to high pressure systems, fit flow restrictors as shown in paragraph "HIGH PRESSURE SYSTEMS" to reduce water consumption.

When pressures exceed 5 bar, installation of a pressure reducing valve is required.

### HOT WATER SUPPLY

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). Generally, instantaneous water heaters having a lower power may not be suitable to work properly with any thermostatic mixer.

### HIGH PRESSURE SYSTEMS

This mixer is suitable for low and high pressure systems. In the event this mixer is installed on high pressure system, flow restrictors (supplied) can be fitted to reduce water consumption. In order to do this, proceed as follows:

Unscrew the connector assembly (composed of part no. 5, 22, 6, 31, 14, 1 and 2), which will expose the filter washer (14), ring (1) and spacer ring (2). These should be removed, then push the flow restrictor (33) into the mixer until it stops, paying attention that the smaller part of the flow restrictor is directed towards the mixer. Re-fit the ring (1) and filter washer (14) and re-connect the connector assembly. Do not re-fit the spacer ring (2). Tighten this assembly to form a seal.

## PLUMBING & INSTALLATION

An independent water supply (both hot and cold) is required for the shower system.

Large runs of pipework will cause frictional loss of pressure.

If more than one shower valve is installed ensure constant supply of hot and cold water can be maintained.

Hot water supply **MUST** always be on the LEFT inlet.

The mixer inlets are supplied with 1/2" BSP threads for 15mms copper pipe connection.

1. Shut down water supply.
2. Carefully purge pipework before commencing installation.
3. Decide correct position of the mixer (keeping hot inlet on the left and cold inlet on the right), drill holes and fix it with the supplied screws (18).
4. Fit the mixer to the copper pipes coming from the wall - hot supply to left inlet and cold supply to the right inlet.
5. Turn supply back on and check for leaks.
6. Place the wall plate (27) complete with its washer (16).
7. Screw the shrouds (35) onto the plate (27), paying attention to insert the washers (15) in order not to damage the plate.
8. Fit handles (19), fix them with the grub screws (13) and then place the indices (28).

## SHOWER KIT INSTALLATION

Prior to drilling into walls, check there are no hidden electrical wires, cables or water supply pipes.

1. Depending on application, the shower arm can be panel mounted using a backnut and 1/2" BSP threaded pipe (not supplied) or set against the wall on a protruding male 1/2" BSP connection and rigid pipe work (not supplied). Use a suitable sealing compound where necessary. Check for seals.
2. Complete wall finish.
3. Slide the wall flange over the shower arm and attach the shower rose (37) to the shower arm paying attention to place the washer supplied with the swivel joint of the shower rose.