

Monarch AP380 Reverse Osmosis Water Purifier

Installation Instructions

Effective October 2013



MONARCH AP380 Reverse Osmosis Water Purifier

Simple step-by-step installation instructions. All connections are colour coded for your assistance.

Mark and fit screws in chosen position of unit
Fit unit in position allowing approx. 50mm below unit to change cartridges.

Insert Membrane (blue filter in clear bag)

Remove **blue clip** on the elbow on the large threaded cap on the horizontal membrane housing on top of the unit - Fig 1.

Remove tubing as per Fig 2.

Unscrew large nut on horizontal filter (4).

Remove membrane from sealed bag and insert into membrane housing ensuring large seal is at end of screw cap.

Important:

Double 'O' ring seal must insert into cavity at far end inside membrane housing.

Refit large nut and reconnect tubing with blue collar.

Red tube – C Type Saddle Valve

Be sure the piercing lance does not protrude beyond the rubber gasket.

Tighten the hexagonal bolt until the Saddle Valve is securely fixed.

Ensure spacer bar is in correct position.

Do not tighten Hexagonal bolt direct onto copper pipe!

The red tube from the Saddle Valve is to be connected to the TO INLET (1) connection on the unit on the right hand side of the unit as you face it.

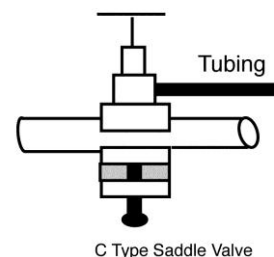
Ensure tube is chamfered before connection.

Tube will enter connection approx 1.5cm and stop.



Fig 2.

1. Push in collet
2. Hold collet tight against fitting
3. Pull tube out of fitting



White tube - Tank

Screw white isolating valve onto storage tank until tight against black 'o' ring. Slide plastic nut over white tube, insert plastic stiffener into pipe and tighten plastic nut firmly. Insert other end of white plastic tube approx 1.5cm into the connection marked TO TANK (2) on the top of the unit as you face it. Ensure tube is chamfered before connection.

Blue tube – Turin Faucet

Fix faucet to sink or worktop

Connect end of blue tube to connection marked TO FAUCET (3) on the top of the unit as you face it.. Ensure tube is chamfered before connection.



Roma and Milan faucet only

Slide nut over blue tube provided, and then slide plastic olive over tube.

Insert pipe stiffener into tube and then insert tube into faucet.

Tighten nut to thread of faucet to seal.

Connect end of blue tube to connection marked TO FAUCET (3) on the left hand side of the unit as you face it. Ensure tube is chamfered before connection.

Turin – tube attached Roma & Milan – non tube attached

Black tube- Drain

Fix black drain clamp to waste pipe (do not over tighten). Mark internally through centre of drain clamp. Ensure marker has a smooth edge so as not to damage internal 'o' ring. DO NOT USE A SCREW! Remove clamp and drill waste pipe with ¼” drill where previously marked. IMPORTANT: Ensure you do not drill through other side of waste pipe. Fix seal plate to inside of clamp and fit clamp to waste pipe ensuring drilled hole lines up with centre of tubing connection. Then fit pre-connected black pipe from the bottom of the Membrane housing to push fit connection on drain clamp ensuring tubing enters approx. 1.5cm to seal.

Ensure valve on the storage tank is in the open position. Turn on water supply on Saddle Valve by turning spindle handle clockwise, until it stops. Open water supply by then turning spindle handle anticlockwise, you will then hear water enter the unit.

Finally;

1. Check for leaks
2. Turn back spindle handle on Saddle Valve in a clockwise direction approx ½ a turn, and
3. Discard first two tanks (tank can take up to 6 hrs to fill) of purified water by opening faucet and allow water to run into sink.

Hints and tips

- A. If you do not use the system for over a week, discard complete tank full of water via the faucet upon your return.
- B. Turn off water supply to unit if you are going away for any period of time.
- C. Change all three cartridges every 6 months. Cartridge refs: QCC-10P (sediment), QCC-10C (carbon) & QCC-10C (carbon).
- D. Discharge tank fully via the faucet monthly. This encourages optimum performance of the membrane.
- E. The unit will work better with a soft water supply!
- F. The higher the water pressure (max 70psi – 5 bar) the better the unit will perform!

Troubleshooting

Problem	Possible Cause	Solution
No water production	Feed water shut off. Tank valve closed	Check water supply. Open tank valve
Leak at filter or membrane housing	Defective or misaligned O-ring	Change O-ring
Leak at threaded connection	Nut loose or insufficient sealant on thread	Tighten nut or reseal joint with PTFE
Leak at tubing	There is a kink in the tube near a joint	Realign tube if necessary redo connection
Bad tasting water	Tank contaminated. Membrane fouled	Sanitize the tank, & change all cartridges Replace membrane
High product water TDS	Cross membrane pressure is too low. Brine seal on membrane leaks Membrane expended	Change filters & increase pressure to 40psi+ Check O-ring seal Replace membrane
Low water flow to faucet	Loss of back pressure in storage tank Membrane fouled to prevent flow Check valve failure	Pump air into tank to 9psi with <u>tank empty</u> and disconnected from unit. Replace membrane Change check valve

Installation conditions:

- * Use on mains water supply only.
- * Not recommended on water that contains iron
- * Max TDS level is 2000ppm.
- * Use unit on cold water supply only.
- * Recommended minimum water pressure to be 35psi
- * Soft water supply recommended optimizing membrane life
- * Protect unit from sunlight
- * Protect from humidity
- * Maximum water pressure to be 70psi. If daytime water pressure exceeds 50psi, fit a 70psi pressure limiter.
- * Change cartridges at least every 6 months, regardless of use

MONARCH WATER Ltd
HALESWORTH ROAD
BRAMFIELD
SUFFOLK
IP19 9HP

e-mail: sales@monarchwater.co.uk

Tel: 01986 784 759
Fax: 01986 784 769

Installation Time Allowances – approx:
DIY – 60-75mins. Professional – 45-60mins.