

DEMINERALISATION

AQUAPURE

Disposable Resin Demineraliser



The Aquapure is an inexpensive means of providing demineralised water on tap. The system is simply connected to the mains water supply and the water passing through it is demineralised by the mixed bed ion exchange resin. When the resin is exhausted, which is indicated by a rise in conductivity the vessel is simply emptied and the resin replaced. **Aquapure 400** replacement resin is available in 25 litre kegs.

Benefits

- High quality water (down to 0.2µs/cm)
 - Simple to install
 - Low capital cost
 - No hazardous chemicals
 - Easy to use
 - No need to keep a spare cartridge
- Optional extras**

- Conductivity monitor and exhaustion indicator
- Flexible hose connectors
- Recirculation pump system
- Mini Aquapure cartridge system

Technical Data	MODEL 725	MODEL 750
Approx. vessel dimensions (mm)	213x900	325x922
Connection size (B.S.P.)	3/4"	3/4"
Resin content (litres)	25	50
Typical capacity @ 100ppm T.D.S. (litres)(e)	8250	16500
Approx. maximum flow rate (litres/hour)	1000	2000
Approx. wet weight (Kg)	35	65

(e - Will vary depending on input water character and exhaustion endpoint).



Aquapure Operating Instructions

Installation

The Aquapure units are supplied prefilled with **Aquapure 400** resin and need simply to be connected to the water supply by means of suitable hose connectors (take care to plumb the unit in with the water flow in the direction shown on the top of the unit). Where a battery operated exhaustion indicator is used the flow cell should be screwed into the outlet from the Aquapure ensuring that it is oriented so the probe is NOT directly at the top (since this may allow air bubbles to be trapped resulting in a false reading).

Exhaustion Indication

There are 3 available means of detecting the exhaustion of the resin:

- a) Conductivity monitor (exhaustion is indicated by the conductivity exceeding the chosen limit).
- b) Mini Aquapure cartridge (exhaustion is indicated by the colour change of the resin)
- c) Battery-operated Exhaustion Indicator preset to show exhaustion at $30\mu\text{s/cm}$. The unit has two indicator lights (red and green) and in normal usage with good quality water flowing the green light flashes every few seconds. As the unit starts to become exhausted both the red and green lights flash and total exhaustion is indicated by just the red light flashing. The unit is powered by 4 AA cell batteries which should be changed every 12 months.

Changing the Resin

Once exhausted, any conductivity cells fitted should be unplugged and the top of the Aquapure unit unscrewed. The exhausted resin can then be removed by inverting the unit and swilling the resin out with the help of a hose. The spent resin should be disposed of in the normal manner for non-hazardous solid waste.

To refill the unit:

- i) Position the riser tube centrally in the vessel and cover the top end of it with a plastic bag, or similar, to prevent resin going down inside it.
- ii) Carefully refill the vessel around the riser tube ensuring it remains central.