



## **REVERSE OSMOSIS SERVICING**

### **Method statement**

#### **Objectives**

To efficiently and safely service the consumable parts and engineering parts of a reverse osmosis water tds reducer. To sanitise the whole system to rid the system of any infections including biofilm, legionella and pseudomonas.

#### **The system**

Depending on the location of the system the water softening factory will consist of:

1. TAC scale prevention pod containing TAC crystals or water softener.
2. Reverse osmosis main unit containing sediment filters, carbon filters and membranes.
3. De-ioniser cartridges to reduce the tds for sterilization equipment.
4. Storage tank.

#### **Method.**

Preparation:

The system should be fully isolated by turning off the water supply, power and tank valve.

The contents of the tank should be emptied and the pressure brought up to 10 psi pressure.

Check for any worn pipes.

## Action

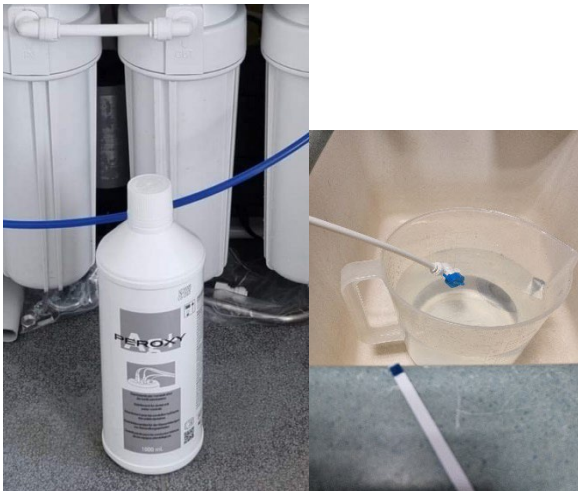


Record the city water tds reading.

Remove all old filters, membranes and de ioniser cartridges and discard safely.  
Change all worn piping with new piping.  
Any existing TAC cartridges should be removed and sanitised with Peroxy Ag.

In the first pod (sediment) place a litre of Peroxy Ag.  
Run the system with the cold water feed open until the water reaches the tap.  
Take a Peroxy indicator strip and ensure the indicator shows a 600 pm peroxide reading at the tap.  
Contact time: 60 minutes.

The peroxide solution would of travelled through all the pipework and valves and also the mouth of the tank and faucet.





After 60 minutes open the pods and membrane housing and place new consumable parts into the system.

Replace the WRAS approved double check none return valve.

**Do not link the tank or the de ioniser at this point.**

With the new filters and membrane (s) in place run the system to prime the parts for 5 minutes.

After 5 minutes after isolating the water feed and power ,attach the de ioniser cartridges and open the tank valve.

Run the system for 5 minutes and take a reading from the faucet.Target tds is zero.

Complete service certificate and forward to the practice.

Required:

Competent Person.

Filter set.

Membrane (s).

WRAS approved double check none return valve.

De ioniser cartridges.

One litre Peroxy Ag.

Pump for the R O tank.

Appropriate spanners.

Log book.

Certificate.

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