

## PF-2 CHARCOAL FILTERS

The function of the charcoal filter element, p/n FFFTC-CC, is to remove any chlorine in the fresh water flush water supply. The RO membrane can only handle small amounts of chlorine for short periods without damage. If the fresh water flush water contains chlorine the membrane will be exposed to it for days at a time and the membrane will begin to produce high salinity product.

The charcoal filter we supply removes 99.7% of the chlorine. Beware when buying other charcoal filters. If they don't specify the percentage of chlorine removed, don't use them. The cheap ones may remove only 60% or 70%. Also, there are aftermarket filters which are very close to, but not exactly, the same dimensions that will not seal properly in the housing. So if you skimp on the charcoal filter you risk damaging a \$600.00 membrane on the first flush. The other factor is the flow rate that the filter can handle. Because the chlorine is adsorbed by the charcoal, it must remain in contact with the charcoal for a sufficient period of time for all of the chlorine molecules to come into contact with the charcoal and be captured. The filters we use can handle 1.5 gallons (6 litres) per minute flow, and are good for 3000 gallons (12,000 litres) at 1.5 GPM, or six months, whichever comes first. Regardless of the flow the charcoal loses its effectiveness after six months.

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