

**FILMTEC Membranes****Water Chemistry and Pretreatment: Summary of Pretreatment Options****Summary of Pretreatment Options**

Table 2.11 summarizes the pretreatment options when specific risks for scaling and fouling are present. It is a quick reference for “possible” and “very effective” methods. A combination of “possible” methods may also be “very effective”.

Table 2.11 Pretreatment options for scaling and fouling

Pretreatment	CaCO ₃	CaSO ₄	BaSO ₄	SrSO ₄	CaF ₂	SiO ₂	SDI	Fe	Al	Bacteria	Oxid. agents	Org. matter
Acid addition	●							○				
Scale inhibitor antifoulant	○	●	●	●	●	○		○				
Softening with IX	●	●	●	●	●							
Dealkalization with IX	○	○	○	○	○							
Lime softening	○	○	○	○	○	○	○	○				○
Preventive cleaning	○					○	○	○	○	○		○
Adjustment of operation parameter	○	○	○	○	○	●						
Media filtration						○	○	○	○			
Oxidation filtration							○	●				
In-line coagulation							○	○	○			○
Coagulation-flocculation						○	●	○	○			●
Microfiltration/Ultrafiltration						●	●	○	○	○		●
Cartridge filtration						○	○	○	○	○		
Chlorination										●		
Dechlorination											●	
Shock treatment										○		
Preventive biocidal treatment										○		
GAC filtration										○	●	●

○ Possible ● Very effective

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