

Membrane Technology

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Communitising Technology



Chapter 6 Membrane Characterization



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Exercise 1

• An NF hollow fiber membrane has a water permeability of Lp= 8 L/m².h.bar. The external diameter of fiber is 0.1mm and the length of the module is 1m. If the system is run at 10 bar and 25 °C and seawater (NaCl and osmotic pressure of 2 bar) as a feed, how many number of fibres are required in order to achieve permeate flow rate of $1 \text{ m}^3/\text{day}$.



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