**FILMTEC Membranes**  
System Design: Single-Stage System

In a single-stage system, two or more modules are arranged in parallel. Feed, product and concentrate lines are connected to manifolds. Other aspects of the system are the same as in a single-module system. Single-stage systems are typically used where the system recovery is less than 50%, e.g., in seawater desalination.

An example of a single-stage system is outlined in Figure 3.4. Each of the three pressure vessels houses six FILMTEC™ elements.

**Figure 3.4 Single-stage system**
FILMTEC Membranes
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Notice:  The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.

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