SEPA CF II



Sepa CF II Membrane Cell system is a lab quality crossflow membrane filtration unit capable of withstanding up to P=69 bar operating pressure. It provides fast and accurate performance data for any reverse osmosis, nanofiltration, ultrafiltration or microfiltration crossflow application. Sepa CF II has a unique, patented design that simulates the flow dynamics of larger, commercially available membrane elements. This versatile membrane cell can be used as a membrane evaluation device, process development tool or for small-scale production, while minimizing the amount of membrane and sample used. This results in a significant savings of time and money, enabling you to fully leverage your investment. Using Sepa CF II you can easily modify operating conditions, fluid dynamics and pressure levels to simulate a broad range of applications. This enables you to easily determine which GE flat-sheet membrane is most appropriate for your intended application.

Sepa CF II Membrane Cell system has many features that make it ideal for use in any reverse osmosis, nanofiltration, ultrafiltration or microfiltration crossflow application.

- Accepts any flat sheet membrane.
- Unique piston clamping mechanism. Patented pneumatic or hydraulic mechanism enables quick change out of membrane in less than one minute, and then quickly seals it with uniform pressure and a leak-proof seal.
- Wide variety of shims and spacers. Optimizes flow characteristics during filtration, maximizing membrane efficiency.
- Accommodates pressures to 69 bar. Allows for the simulation of a greater range of large-scale applications at optimal rates.

Technical data

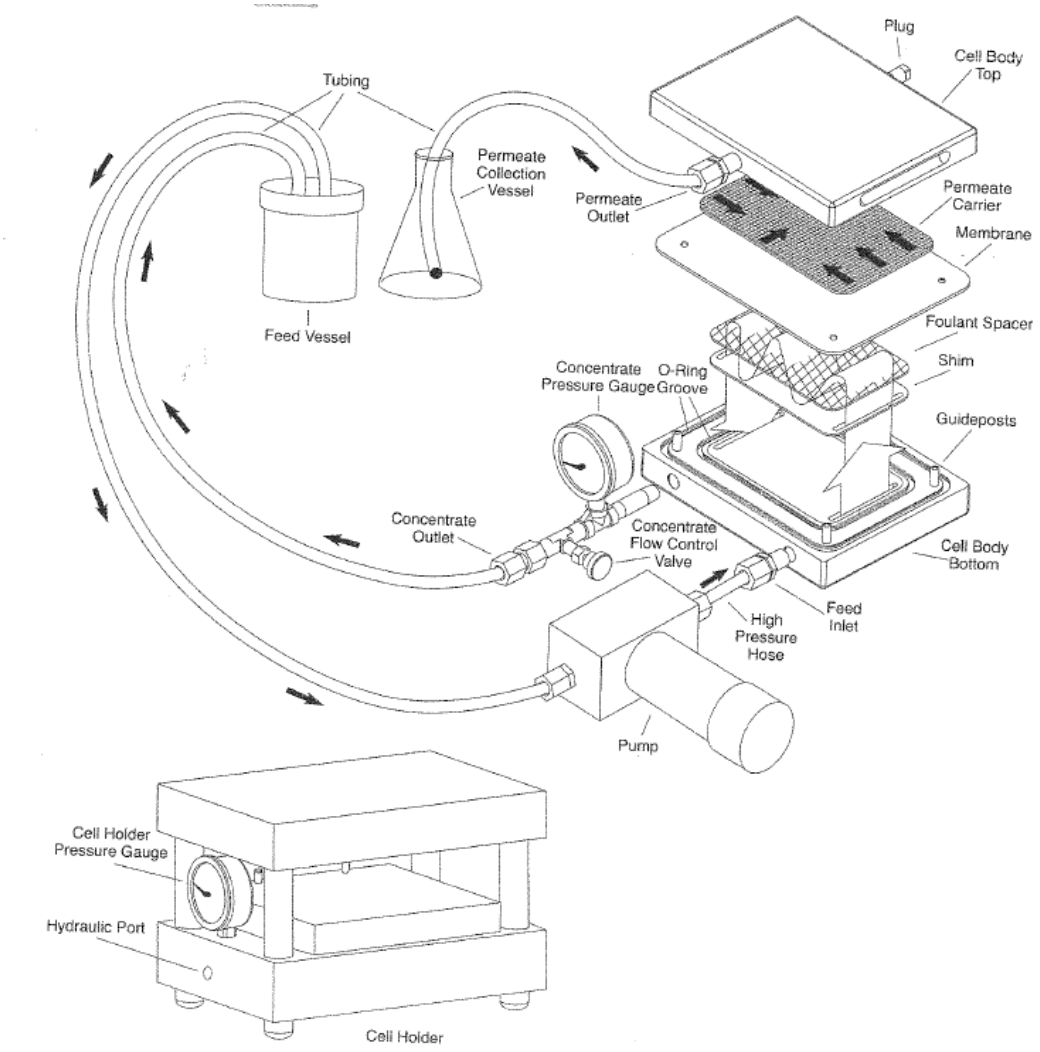
Effective Membrane Area	155 cm^2
Hold-up Volume	70 mL
Maximum Pressure	69 bar
Maximum Temperature	177 °C
Cell Body	AISI316
Feed Concentrate connections	1/4 inch FNPT
Permeate	1/8 inch FNPT

Dimensions

Cell Body	165 x 213 x 50 mm
Holder	200 x 280 x 20.0 mm
Membrane	191 x 140 mm
Feed Spacer	146 x 95 mm
Permeate Carrier	146 x 95 mm

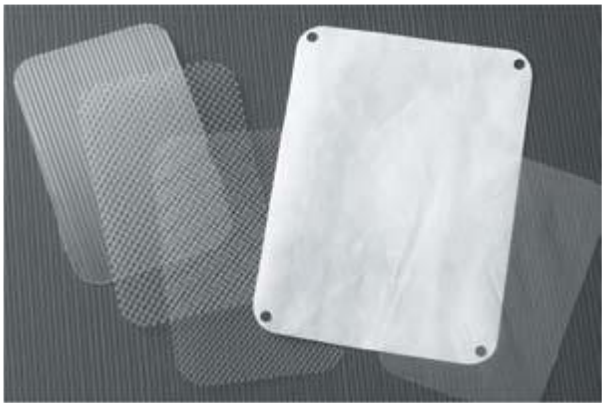
Connections

Depending on pressure, standard tubing or hose can be used for connecting cells to vessels. The connection between the pump and inlet valve on the cell should be a high-pressure hose.



Compatible Flat Sheet Membranes and accessories

Sepa CF II accommodates any 190 x 140 mm flat sheet membrane for a full 155 cm2 of effective membrane area. Sepra offers precut and individually wrapped membrane inserts in single or assortment packs from our large selection of reverse osmosis, nanofiltration, ultrafiltration and microfiltration membranes.



Sepra also offers a wide range of accessories (pumps, piping, tanks, instrumentation) and eventually also a preassembled fully operational pilot unit (Membratest CF).

Sepa CF installation



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