

FORWARD OSMOSIS CELLS

Forward Osmosis membrane test cells are ideal for osmotically driven applications such as Forward Osmosis (FO), Pressure Retarded Osmosis (PRO), or Pressure Assisted Forward Osmosis (PFO). Feed and draw solutions are circulated tangentially to the membrane filter, while passage of molecules through the membrane from the feed side to the draw side is driven by the osmotic pressure difference created between the feed and draw solution.

TYPICAL APPLICATIONS:

- Water reclamation from oil and gas exploration
- Landfill wastewater
- Alternative energy/biogas wastewater
- Medical/dental wastewater
- Membrane bioreactors
- Seawater desalination
- Radioactive wastewater
- Carpet manufacturing wastewater
- Pressure Retarded Osmosis (PRO) to generate electricity

SEPA FO CELL (DEVELOPER)

GENERAL SPECIFICATIONS	
Active Membrane Area	140 cm ² (22 in ²)
Hold-Up Volume	70 mL (2.4 oz)
Connections	Feed: 1/4 in FNPT (base of cell) Draw Solute: 1/4 in FNPT (top of cell)
Outer Dimensions	16.51 x 21.3 x 5 cm (6.5 x 8.38 x 2.07 in)
Active Area Dimensions	9.7 x 14.7 cm (3.81 x 5.78 in)
Slot Depth	0.19 cm (0.075 in)



CF042 FO CELL (EXPLORER)

GENERAL SPECIFICATIONS	
Active Membrane Area	42 cm ² (6.5 in ²)
Hold-Up Volume	17 mL (0.57 oz)
Connections	Feed: 1/4 in FNPT (base of cell) Draw Solute: 1/4 in FNPT (top of cell)
Outer Dimensions	12.7 x 10 x 8.3 cm (5 x 4 x 3.25 in)
Active Area Dimensions	9.207 x 4.572 cm (3.625 x 1.8 in)
Slot Depth	0.23 cm (0.09 in)



CF016 FO CELL (INNOVATOR)

GENERAL SPECIFICATIONS	
Active Membrane Area	20.6 cm ² (3.2 in ²)
Hold-Up Volume	13 mL (0.44 oz)
Connections	Feed: 1/4 in FNPT (base of cell) Draw Solute: 1/4 in FNPT (top of cell)
Outer Dimensions	12.7 x 10 x 8.3 cm (5 x 4 x 3.25 in)
Active Area Dimensions	4.52 x 4.52 cm (1.78 x 1.78 in)
Slot Depth	0.23 cm (0.09 in)

