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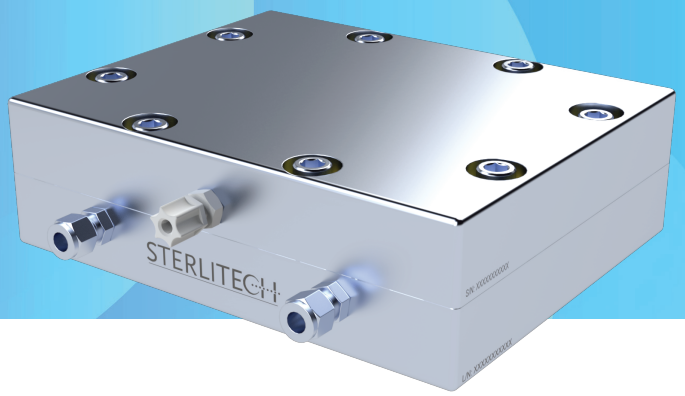
Sepa CFX

Stainless Steel Crossflow Cell allowing operating pressures up to 2000 PSI



Introduction & Standard Features:

The Sepa CFX has all of the standard performance features of the Sepa CF:

- Accepts polymeric flat sheet membrane coupons
- Mimics both laminar or turbulent flow conditions
- Provides fast and accurate performance data
- Offers judicious membrane use with small membrane active area

Materials:

- 316L Stainless Steel cell body
- Viton O-rings (additional O-ring materials available upon request)
- High pressure 316 stainless steel compression inlet/outlet fittings
- Polypropylene permeate compression fitting

Applications:

Cross/tangential flow test cells are typically used in membrane applications such as:

- Desalination of HIGHLY concentrated brackish water or seawater
- Biological or biopharmaceutical processing
- Concentration of fruit juices and extracts
- Food and beverage processing
- Municipal or industrial water and wastewater purification

Specifications:

Parameter	Description
Membrane Active Area	140 cm^2 (22 $inch^2$)
Hold-Up Volume	70 ml (2.4 ounces)
Cell Body Material	316 Stainless Steel
Maximum Pressure*	138 bar (2000 psig) @ 22°C, 71.6°F
Maximum Temperature*	177 °C (350 °F)
O-rings	Viton* (Other materials available)
pH Range	Membrane Dependent
Crossflow Velocity	Variable
Slot Depth	1.9 mm (0.075 inches)
Slot Width	95.3 mm (3.75 inches)
Connections	
Inlet/Outlet Size (Tube OD)	⅜” Compression
Permeate Size (Tube OD)	¼” Compression

Ordering Information:

SKU	1160356
Product Name	Sepa CFX Cell, Cross Flow, 316 SS

*Note: Maximum pressure and temperature ratings are dependent on a variety of factors. Listed values are guidelines based upon material properties and can not be guaranteed in every application.

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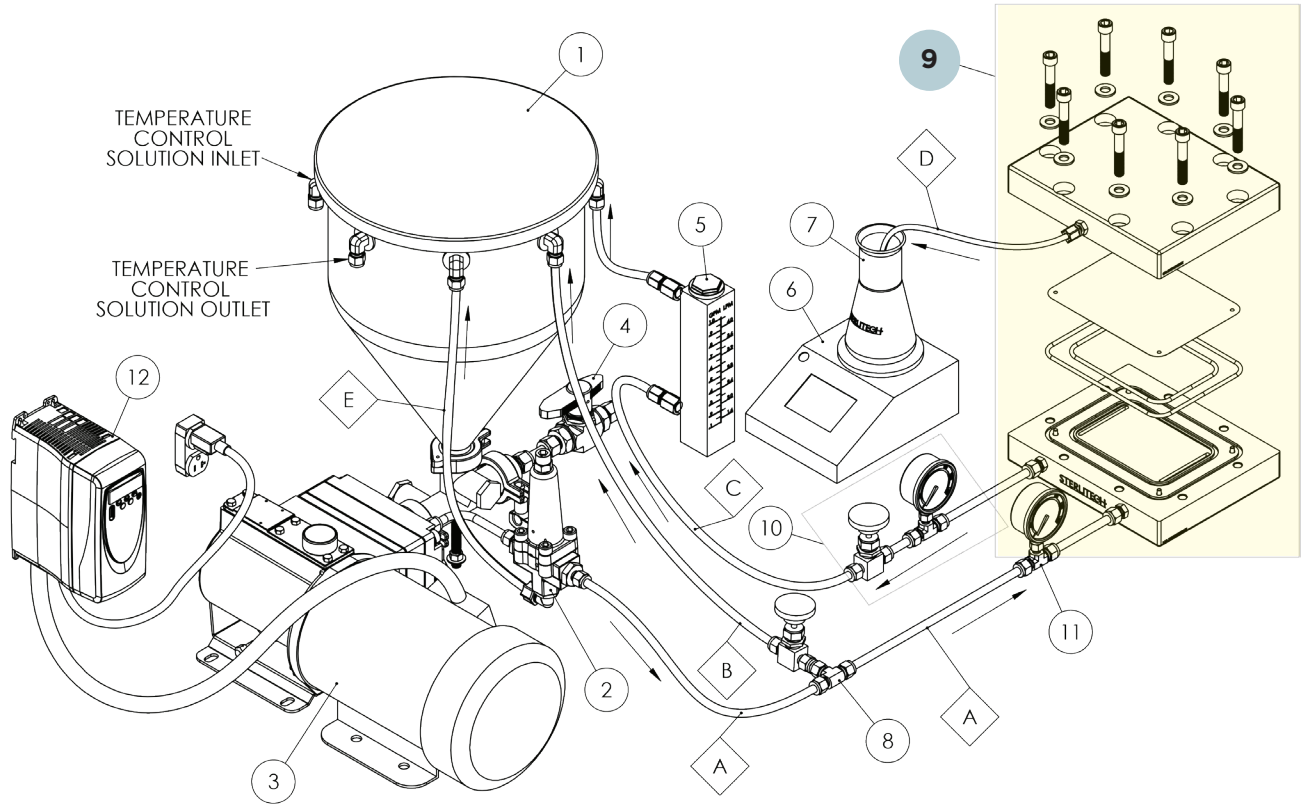
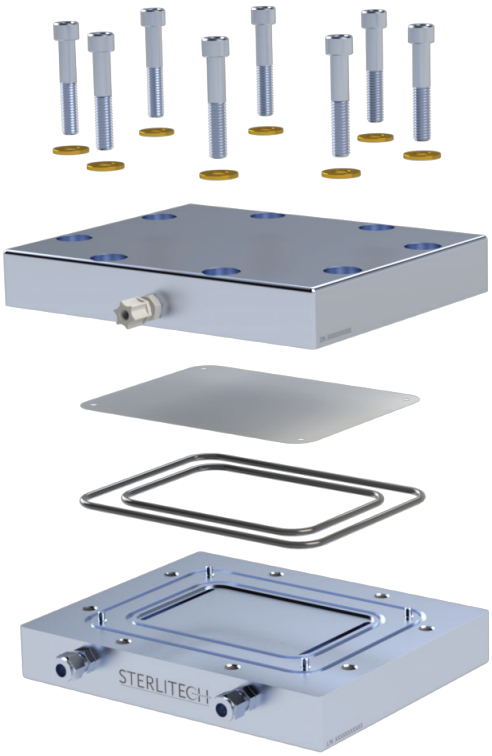


Crossflow System Flow Diagram for CFX Cells



Item No.	Part Description
1	5 GAL CONICAL FEED TANK W/ TEE & CHILLER COIL
2	PRESSURE RELIEF VALVE
3	MOTOR & PUMP ASSEMBLY
4	FLOW METER
5	ACRYLIC XL SEPA
6	SCALE FOR MEASURING PERMEATE FLUX
7	PERMEATE COLLECTOR
8	BY-PASS NEEDLE VALVE WITH 3/8" "T" FITTING
9	**SEPA CFX CELL ASSEMBLY**
10	CONCENTRATE CONTROL VALVE ASSEMBLY
11	FEED PRESSURE GAUGE
12	VARIABLE FREQUENCY DRIVE (VFD)
A	3/8" HIGH PRESSURE FLEX OR RIGID TUBING, FEED LINE
B	3/8" LOW PRESSURE TUBING, BY-PASS
C	3/8" LOW PRESSURE TUBING, RETURN LINE
D	1/4" LOW PRESSURE TUBING, PERMEATE OUTPUT LINE
E	3/8" LOW PRESSURE TUBING, RELIEF RETURN LINE

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