

STIRRED CELL

Product Sheet



AMS HPC-197

We attribute our great success to our expertise in membrane development, manufacturing and process design.

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1 General Description

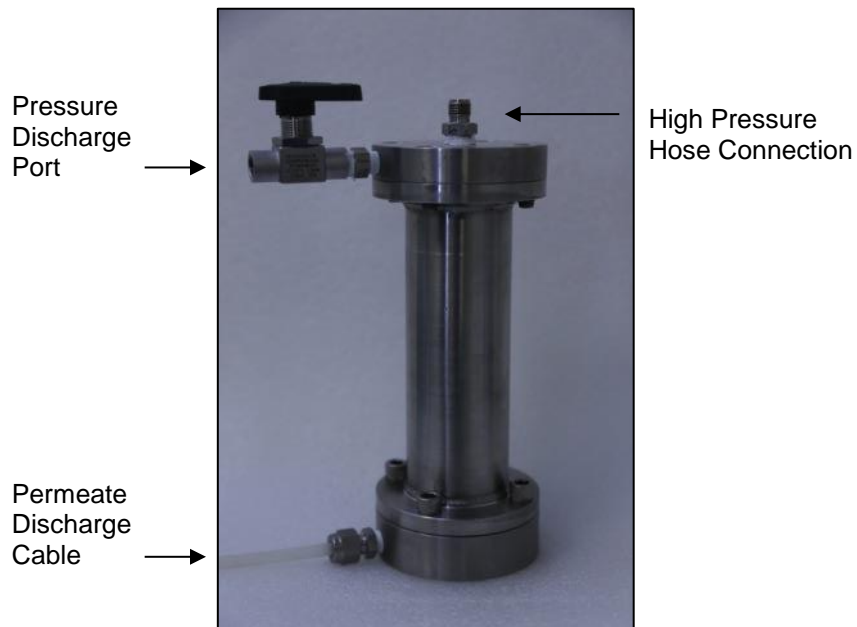
The HPC-197 Stirred Cell can complete a variety of separations from microfiltration to reverse osmosis. The standard cell is designed for safe operation to 69 bar (1000 psig).

Standard sources of inert gas allow variable, safe, and consistent supply of pressure to perform separations.

With 316L stainless steel construction and carefully chosen components, the HPC-197 Stirred Cell is extremely resistant to chemical degradation and is an ideal choice to filter aqueous and non-aqueous solutions. EPDM O-rings and gaskets are standard; other materials are available as options.

The Teflon-coated magnetic stir bar provides agitation to reduce concentration polarization or cake formation typical of “dead-end” or normal filtration.

For testing, AMS includes three flat sheets of its own highly stable state-of-the-art NF membrane product selection (A-3012, B-4022 and S-3012).



2 Specifications

2.1 Name & Customs code

Customs name: Laboratory membrane test cell
 Customs code: 90268090

2.2 Operating Parameters:

Membrane Size: 53 mm diameter
 Active Membrane Area: 13 cm²
 Processing Volume: 150 mL
 Hold-Up Volume: 10 - 30mL (depend on applied pressure)
 Maximum Pressure: 69 bar (1000 psig)
 Maximum Temperature: Membrane Dependent
 PH Range: Membrane Dependent

2.3 Wetted Materials of Construction:

Cell Body: 316L Stainless Steel
 O-Rings: EPDM; others available as options
 Gaskets: EPDM; others available as options
 Stir Bar: Teflon-coated magnet

2.4 Characteristics:

Characteristics	Unit	Dimension
Dimensions	L * W * H (cm)	14 * 8 * 22
Weight	kg	3.5 kg
Material of construction	99 % 1 %	Stainless steel Teflon
In- and outputs	inches	1/4
Allen screw	mm	10
Gas input for high pressure tube	inches	1/8

3 Contact



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