Sterlitech™ 1812 Membrane Test Skids are designed to evaluate the performance of membranes widely used in Reverse Osmosis, Nanofiltration, Ultrafiltration, and Microfiltration applications by simulating the flow dynamics of larger, commercially available membrane systems. This test skid offers experimental control by allowing adjustment of the flow parameters to accommodate a wide range of applications. This system has been specifically configured for use with standard 1812 spiral wound elements.

**APPLICATIONS:**
- Biological or Biopharmaceutical Processing
- Concentration of Fruit Juices and Extracts
- Food and Beverage Processing
- Desalination of Brackish Water or Seawater
- Purification of Rinse Water in Electroplating Tanks
- Municipal or Industrial Water and Wastewater Purification

**STANDARD FEATURES:**
- Operating pressures to 600 psi (41 bar)
- Polypropylene Feed Tank
- All Wetted Parts are Stainless Steel or Inert Thermoplastics
- High-Pressure, Stainless Steel Diaphragm Pump

**SPECIFICATIONS:**

**Cell Type**
- 1812 Stainless Steel 316 Housing

**Number of Cells**
- 1 of Each
  - Can be Customized with Combinations of Cross Flow Cells

**Membrane Sample Size**
- 1812 Housing: 1.8 in dia. x 12 in length spiral wound element

**Effective Membrane Area**
- 1812 Spiral Wound Element: Variable (max. 0.45m²)

**Feed Flow Rate**
- 1.8 GPM (6.7 LPM) max.

**Feed Controls**
- Concentrate Pressure Control Valves: 0-600 psi (0-41 bar)

**Data Monitoring**
- Flow Rate, Pressure, Temperature, Conductivity, Weight

**Operating Pressure Range**
- 0-600 psi (0-41 bar)

**Electrical Supply**
- 110V/60Hz, 1 Ph or 220V/60Hz, 1 Ph

**Pump and Motor Rating**
- Washgaurd Electric Motor
- Positive Displacement Pump

**System Dimensions/Weight**
- 67 x 41 x 59 in (170 x 104 x 150 cm)
- 650 lbs (295 kg)

**Optional Accessories**
- Temperature Controller, pH Sensor, Digital Balance

Footnotes:

1. Per Cell
2. Optional

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Sterlitech™ 1812 Membrane Test Skid - Analog

Analog Skid Configured with 1812 Housing

Legend

V1: Feed pressure relief valve
V2: Feed by-pass valve
V3: Concentrate pressure control valve
V4: Drain valve
PT1: Feed pressure gauge
PT2: Concentrate pressure gauge
FT1: Feed by-pass flow meter
FT2: Concentrate flow meter
FT3: 1812 permeate flow meter

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