The Sterlitech™ Convertible Membrane Test Skid is a unique product designed to evaluate the performance of membranes widely used in pressure driven applications such as Reverse Osmosis, Nanofiltration, Ultrafiltration, Microfiltration, but also in osmotically driven applications such as Forward Osmosis, and Pressure Retarded Osmosis or temperature driven applications such as Membrane Distillation. This skid simulates the flow dynamics of larger, commercially available membrane filtration systems, offering experimental control by allowing adjustment of the flow parameters to accommodate a wide range of applications. This system can be configured for use with the Sepa CF, CF042, and CF016 cells.

The Skid System also displays and records the data collected by the integrated sensors in real-time. Collected data can be accessed and retrieved using USB or Ethernet connections.

Note: also available in analog

**APPLICATIONS:**
- Biological or Biopharmaceutical Processing
- Concentration of Fruit Juices and Extracts
- Food and Beverage Processing
- Desalination of Brackish Water or Seawater
- Oil and Gas Industry
- Municipal or Industrial Water and Wastewater Purification
- Recovery of Volatile Compounds from Aqueous solutions

**STANDARD FEATURES:**
- Operating Pressures to 80 psi (5.5 bar) on the Low Pressure Line and up to 1000 psi (69 bar) on the High Pressure Line
- Sea Water Rated Plumbing
- Digital Pressure and Flow Sensors
- Stainless Steel Frame with Heavy Duty Casters
- Operate in Both Pressure Driven or Osmotically/ Temperature Driven Modes

**SPECIFICATIONS:**

**Cell Type**
- Sepa CF

**Number of Housings**
- One cell includes cell bottom, one cell top for high pressure cross flow (CF) applications, and one cell top for low pressure forward osmosis (FO) or membrane distillation (MD) applications

**Membrane Sample Size**
- 7.5 x 5.5 in. (19 x 14 cm)

**Effective Membrane Area**
- 24 in² (140 cm²)

**Feed Flow Rate**
- Maximum 1.8 GPM (6.7 LPM) on the high pressure line
- 0.01-0.85 GPM (0.032-3.2 LPM) on the low pressure line

**Feed Controls**
- Bypass Valve
- Concentrate Pressure Control Valves: 0-1000 psi (0-69 bar)

**Data Monitoring**
- Flow Rate, Pressure, Temperature³, Conductivity³, Weight

**Operating Pressure Range**
- 0-1000 psi (0-69 bar)
- 0-80 psi (0-5.5 bar) in FO/MD mode

**Electrical Supply**
- 110V/60Hz, 1 Ph or 220V/50Hz, 1 Ph

**Pump and Motor Rating**
- Washguard Electric Motor
- High Pressure Positive Displacement Pump
- Low Pressure Gear Pump with Console Drive

**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 Can be customized with combinations of flow cells
2 Per housing
3 For digital skids only: includes 1 USB connection for data retrieval

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