Sterlitech™ Pilot 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. The test skid offers experimental control by allowing adjustment of the flow parameters to accommodate a wide range of applications. Sterlitech™ Pilot Membrane Test Skids can be operated with 2540 elements and cross flow cells including 1812, Sepa, CF042, and CF016 in parallel.

This Pilot Skid is also available in digital version. The digital System 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.

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:
- Sea Water Rated Plumbing
- Operates as 1 or 2 Lines in Parallel
- High-Pressure, Stainless Steel Diaphragm Pump
- Digital or Analog Pressure and Flow Meters
- Digital Temperature and Conductivity Sensors
- Stainless Steel Frame with Heavy Duty Casters
- 2540 Stainless Steel 316 Housing
- Operating Pressure to 600 psi (41 bar) for 2540 Housing

SPECIFICATIONS:

- **Housing Type**
  2540 Stainless Steel 316 Housing

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

- **Membrane Sample Size**
  2540 Housing: 2.5 in. dia. x 40 in. length spiral wound element

- **Effective Membrane Area**
  2540 Spiral Wound Element: Variable (max. 3 m²)

- **Feed Flow Rate**
  10.5 GPM (39.7 LPM) max.

- **Feed Controls**
  Bypass Valve
  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**
  100V/60Hz, 1 Ph or 220V/60Hz, 1 Ph

- **Pump and Motor Rating**
  Washguard 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 Housing
2. For digital skids only: includes 1 USB connection for data retrieval
3. Optional

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Sterlitech™ Pilot Membrane Test Skid

Skid Configured with a 2540 Housing

Legends
V1: Feed pressure relief valve
V2: Feed by-pass valve
V3: 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: Permeate flow meter

Low pressure fluid line
High pressure fluid line