

## 250 L ULTRAFILTRATION PILOT PLANT DATA SHEET



***Designed for pilot scale Microfiltration and Ultrafiltration trials***

The best membrane for a given application can be selected from the company's process database and by trialling a number of membranes to achieve the optimum performance.

The pilot plant can be modified to suit customer specific requirements and trials can be carried out either at our customers' premises or at our Swansea facility. Our team of highly skilled engineers is well versed in separation applications utilising microfiltration, ultrafiltration, nanofiltration and reverse osmosis technologies.

### **Specification**

Membrane area =	2.2 - 12 m <sup>2</sup> (depending on membrane configuration)
Operating pressure =	Up to 6 bar
Operating pH =	2.0 – 11 pH (limited only by membrane chosen)
Operating temperature =	5 - 50°C
Permeate flow rates =	Up to 1,500 l/hr (depending on membrane area chosen)
Concentrate flow rates =	Up to 3,000 l/hr (can be modified to 14,000 l/hr if required)
Dimensions =	3.47 m x 0.85 m x 2.0 m high
Weight =	400 kg (empty)
Area of use =	Non-hazardous area, IP55
Pumps =	P1, feed pump, up to 15,000 l/hr at 3.6 bar, variable speed P2, recirculation pump, up to 22,000 l/hr at 2.4 bar

### **Features and instrumentation**

Manufactured with 316L stainless steel contact surfaces and EPDM seals. Includes a Pure-Screen pre-filter, tubular heat exchanger, multiple sample points, switch lever butterfly valves, centrifugal feed pump and recirculation pump. Instrumentation includes tank level display, inlet and outlet Pressure Indicators, Temperature Indicator, permeate and concentrate variable area flowmeters.

### **Installation Requirements**

Installed Power =	▶ 8.0 kW, 3 Phase N+E, 415v, 50Hz
Termination Points =	▶ Direct feed inlet (bypass tank) = 2½" clamp ▶ Concentrate outlet = 1 ½" clamp ▶ Permeate outlet = 1 ½" clamp ▶ Heat Exchanger = ¾" BSP female, inlet and outlet

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