

100L ULTRAFILTRATION PILOT PLANT DATA SHEET



Designed for pilot scale Microfiltration and Ultrafiltration trials

Can be used for longer term trials on site where the ideal membrane has already been chosen. It is particularly useful where the volumes of feed to be processed are between 200 and 1,000 litres.

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 =	Up to 4.4m ² (depending on membrane configuration)
Operating pressure =	Up to 6 bar
Operating pH =	2.0 – 11 pH (limited only by membrane chosen)
Operating temperature =	10 - 50°C (depending on membrane chosen)
Permeate flow rates =	Up to 800 l/hr (depending on membrane area chosen)
Concentrate flow rates =	Up to 3,000 l/hr
Dimensions =	3.5m x 0.8m x 1.7m high
Weight =	300kg (empty)
Area of use =	Non-hazardous area, IP55
Pumps =	P1, feed pump, up to 10,000 l/hr at 2.0bar, variable speed P2, recirculation pump, up to 22,000 l/hr at 1.5bar

Features and instrumentation

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

Installation Requirements

Installed Power =	▶ 4.4 KW, 3 Phase + E, 415V, 50 Hz
Termination Points =	▶ Direct feed inlet (bypass tank) = 2" clamp ▶ Concentrate outlet = 1" clamp ▶ Permeate outlet = 1" clamp ▶ Heat Exchanger = ½" BSP female, inlet and outlet

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