

UF3

Ultrafiltration Pilot Plant

Designed for use with a variety of ultrafiltration and microfiltration membrane types, this plant is easily configurable for a wide range of applications. Trials can be carried out either at customers' premises or at our facility in Swansea. IO-Link communication allows for trouble-free setup of installed instrumentation, data logging and real-time visualisation of key process variables including flowrates, pressures and tank level.

The hygienic plant is manufactured from 316L stainless steel with EPDM elastomer parts.

Features include a full size Pure-Screen pre-filter with interchangeable filter screen sizes, tubular heat exchanger/cooler, 200 L batch tank with heating/cooling jacket, concentrate and permeate sight glasses and in-line conductivity and pH measurement.



TECHNICAL DATA	
Membrane area	0.24-21.5 m ² , dependent on membrane configuration
Holdup volume	45 L, dependent on membrane configuration
Operating pressure	Up to 8.8 bar
Operating temperature	5-50°C
pH range	2.0-11.0
Permeate flowrate	Up to 6,000 L/hr
Concentrate flowrate	Up to 40,000 L/hr
Dimensions	2.28 m x 1.52 m x 1.62 m (L x W x H)
Weight	1,000 kg (empty)
Area of Use	Non-hazardous, frost-free environments, IP54
Pumps	Centrifugal feed and recirculation pumps, duty points of 30,000 L/hr at 4 bar
INSTALLATION REQUIREMENTS	
Installed power	11.0 kW
Electrical supply	32A, 400v, 50Hz, 3ph, Neutral + Earth
Termination points	Direct feed inlet (bypassing tank): 2" clamp Concentrate outlet: 2" clamp Permeate outlet: 1.5" clamp Tubular cooler: 1.5" clamp in and out Tank jacket: 1" clamp in and out Plant drain: 2" clamp

PPDS-UF3-01 Datasheet.doc

CUSTOMISED STAINLESS STEEL SYSTEMS, FABRICATIONS AND COMPONENTS

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All data is provided in good faith and is subject to change