

Product Name :
Reverse Osmosis Ultra filtration Unit

Product Code :
NLAB-EDUCATIONTVET16016

Description :

Reverse Osmosis Ultra filtration Unit

Technical Specification :

Reverse Osmosis Ultra filtration Unit -

The RO/UF unit has an efficient clean-in-place facility and is easily dismantled for servicing or maintenance. Comprehensive instrumentation is provided with digital meters displaying temperatures and system pressure. This is fully self-contained in a mobile cabinet. All parts in contact with the process fluid are constructed from hygienic design materials such as stainless steel, PTFE and silicone rubber.

Connection to cooling water and a suitable electrical supply is all that is required for normal operation.

In addition to the membrane module, the cabinet also houses feed and permeate tanks, a plate heat exchanger and positive displacement pumps. It uses a membrane module which accommodates all PCI membrane types. Membranes can be installed or removed rapidly for use in either process. The unit is supplied with a pack of both R.O. membranes and U.F. membranes.

The filtration membranes differ only in length and quantity from those installed in the full-scale plant.

Using small quantities of process fluid, operating parameters can be established and then optimized to effect a confident transition to full-scale.

Specification:-

Pressures: Variable up to 55 bar

Diameter: 1.25cm

Flowrates: 30, 18, 15 and 9l/m

Area: 0.024m²

Tubeside Volume: 75ml

Typical Permeate Flow: 5-50ml/min

Feed Tank Capacity: 15 litres

Permeate Tank Capacity: 15 litres

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