



Saurin Membrane Filtration Plants



Saurin has built the Largest Membrane Plant in Australia. Our Range includes plants used for Research Purposes, Plants for small companies that are used on Batch Operation and Plants for continuous operation. The largest Plant supplied by us was rated at 65,000 litres/hr. The smallest plant built by us had 1 litre/hr permeation rate.

Filtration Pilot Plant

The Model RM 3838 membrane filtration pilot plant is a flexible unit used for pilot work on the full range of membrane

1. Ultrafiltration
2. Nano Filtration
3. Reverse Osmosis

It can be operated under a wide range of operating conditions. The pilot plant is based around a standard 3838 commercially available spiral membrane. We offer

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the flexibility to alter the design to suit your requirements. The change may be to accommodate more than one membrane or using a larger membrane (e.g. 6338 size), or a bigger balance tank or a complete PLC.

The plant is based on years of experience of working with membrane plants. The information from the plant can be used for Product Process Development, education or designing a full scale plant. Unique feature of our plant is vertically mounted membrane giving full draining capacity and removing all the air from the system.

The pilot plant is flexible and can be operated in batch mode, or feed and bleed mode. The pilot plant has been designed with a single stage recirculation loop. The membrane filtration pilot plant is skid mounted and will be delivered in ready to use condition. We can also supply the necessary membranes. The plant is pre-tested with water at our factory before dispatch to give you peace of mind.

Standard Features

- Stainless steel construction
- Skid mounted with or without wheels
- One sanitary, single spiral membrane housings
 - one 3838 membrane element to your specifications
- Balance Tank of 60 Litres
 - temperature indication
- Feed pump
- Recirculation pump
- Motor starters
 - variable speed drive for feed pump
 - variable speed drive for recirculation pump
- Flow indicators
 - Permeate rotameters
 - Concentrate rotameter
- Pressure and temperature gauge
- Heat exchanger

Operating Conditions

- Membrane Area 3.5 m² to 6.8 m² depending on the spacer
- Permeate Rate Depending on the product and operating conditions (30 lph to 70 Litres/hr)
- Pressure up to 40 Bar
- Temperature Based on the membrane used. Generally limited to 50° C
- pH range Based on the membrane used. Generally 2.0 to 10.0