

Product Name :
Filtration Unit

Product Code :
ALABS-A104-295

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Description :

Filtration Unit

- A benchtop unit comprising a vacuum formed ABS plastic plinth with integral electrical console on to which is mounted the filtration system.
- A plate and frame batch filter (separation area 230cm²) is supplied as standard. Both constant flow rate and constant pressure operation are possible.
- An optional tangential flow hollow fibre microfiltration cartridge (plus pre-filter and shell and tube heat exchanger) can be fitted. The hollow fibre cartridge has a separation area of 110cm² and a cut-off of 0.2 µ-m.
- Feed flow rate can be varied between 0 and 130 l/hour.
- All electrical circuits are protected by appropriate protection devices.
- The console contains a pump motor control and display panel.
- A separate controller displays the

filter inlet pressure and is used to control the pump speed. Another digital meter displays, via a selector switch, either outlet pressure, permeate pressure, temperature or optical absorbance.

Description:

This is a bench top unit designed to introduce students to the fundamentals of solid/liquid filtration. The apparatus consists of an acrylic feed tank connecting to a progressing cavity pump which feeds a slurry to the acrylic plate and frame filter press. A pressure sensor on the output of the pump measures the filtration pressure.

The filter press consists of two end plates, two frame plates and a wash plate. The filtrate passes through an optical sensor which determines the efficiency of the filtration process. Filtrate temperature is also measured. The second inlet to the filter is for mains water for filter cake washing. A second pressure sensor and a needle valve control the water pressure during the washing cycle. A three-way valve allows filtrate to be returned to the feed tank or to a filtrate vessel/drain.



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