

Product Name :
Deep Bed Filter Column

Product Code :
NLAB-TECHNICALAB22003

Description :

Deep Bed Filter Column

Technical Specification :

This device has pressure measuring points which are connected to Deep Bed Filter Column. It has a filter column with a diameter more than 100 mm. It uses the Deep Bed Filter Column Deep Bed Filter Column. It is widely used to describe all the trainers, the installation and utilization process. We are Deep Bed Filter Column manufacturer and supplier in order to provide high quality products.

Measuring how fast total head loss increases with filtration run time
Measuring pressure drop profiles through the filter bed
Measuring suspension concentration profiles through the filter bed
Demonstration of reversed flow fluidisation and backwashing
The column may be readily adapted for absorption and ion exchange studies.

The Deep Bed Filter Column is a clear acrylic unit about 1.5m high with flanged end pieces to allow easy access. The medium is supported on a corrosion resistant gauze mesh below which is packed 1kg of 10mm Ballotini to ensure good wash water distribution. Slotted sampling tubes inserted through the wall penetrate into the media, and are fitted with control valves so that suspension samples can be taken isokinetically. Plain tubes also penetrate the medium through the wall to transmit pressure to a manometer system. These sampling and manometer probes are located at 20mm depth intervals, but staggered in position, over 0.8m depth. Consequently, complete profiles of concentration changes in the suspension and of pressure variation can be measured during filter operation.

The column can be operated as a pressure filter up to 1 barg.
The service system supplied comprises a pump, sump tanks, flow controller, Rotameter, control valves, tubing, sampling tubes and bank of water differential manometers.
Filter column: Clear acrylic, 100mm internal dia. x 1350mm long
Gauze mesh size: 0.35mm
Sump tanks: 2 - capacity 350 litres each
Flow meter range: 0.5 - 5.0 litres/min
Manometers: 41 tube multi-bank
Pump rating: 0.37kW

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