

Packed Bed Distillation Column



Product Categories: [Engineering Equipment](#), [Mass Transfer Lab](#)

Product Page: <https://www.labappara.com/product/packed-bed-distillation-column/>

Product Description

Packed Bed Distillation Column

Description:

The Column Is Made Of Stainless Steel Material Packed With Borosilicate Glass Rasching Rings. An Electrically Heated Reboiler Is Installed At The Bottom Of The Column. The Bottom Product Is Collected In The Tank. The Vapours Form The Top Of Column Are Condensed In The Shell And Tube Type Condenser By Circulating Cooling Water, Supplied By Laboratory Overhead Tank. The Condensate Is Divided Into Reflux And Distillate By Automatic Reflux Divider And R/D Ratio Can Be Varied. Reflux Is Fed Back To The Column And Distillate Is Received In A Receiving Tank. The Complete Column Is Insulated For Minimizing The Heat Loss. Instrumentation Is Provided For Pressure & Temp. Measurement Wherever Necessary.

Experimentation:

To Estimate The Batch Distillation Curves For A Binary System And Verify The Binary Batch Distillation Equation For A Known Packed Height

To Operate The Column Under Total Reflux Condition And Estimate The Hetp For The Packing Requirement:

Water Supply 2 Lpm At 5 M Head

Electricity Supply: 1 Phase, 220 V Ac, 65 Kw

Required Chemicals

Refractometer For Analysis