

Product Name :
Distillation Column

Product Code :
LIM-CAT-L0074-00001



Description :

Distillation Column

Technical Specification :

The unit is a self-contained and fully instrumented distillation facility, suitable for practical laboratory work relevant to the teaching of unit operations.

The equipment employs galvanically isolated intrinsically safe circuits and flameproof devices as appropriate to enable safe distillation of standard test mixtures such as methylcyclohexane-toluene, methyl alcohol water etc.

The equipment consists of two interconnected units: a floor standing process unit and a bench mounted control console.

The system includes two distillation columns supplied as standard: A 50mm diameter plate distillation column containing eight sieve plates and downcorners.

Every plate includes a temperature sensor positioned to measure accurately the temperature of the liquid on each plate.

The sheaths of each plate temperature sensor are not more than 1.5mm diameter to ensure rapid dynamic response.

A 50mm packed column supplied as a separate item but readily interchangeable with the plate column by the user, for comparative studies of the two types of distillation column.

Key features:

Eight-point sample and feed sieve and plate column, eight temperature measuring points along the column's height, reboiler, Condenser and Reflux tank designed to system enables operation at reduced pressures down to 200mbar,

Interface Console front panel presents all the necessary connections to control the unit using any industry-standard PID and/or PLC controllers (not supplied).

Control Console Features:

Monitoring and selectable display of 13 system temperatures including those of the liquid on each tray, the reboiler and across the condenser u Monitoring, display and manual adjustment of: 1) the electrical power to the reboiler heater. II) the reflux ratio setting.



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