

Product Name :
Automated Continuous Distillation Pilot Plant

Product Code :
ASTRALAB-SUPPLYA21014



Description :

Automated Continuous Distillation Pilot Plant

Technical Specification :

Distillation column height 600 mm with 7 bubble cap trays.

Reboiler with 3 litres capacity complete with 1600 W electric heater.

Condenser with reflux head.

Feeding tank with 5 litres capacity.

Tank for collection of distillate with 1 litre capacity.

Tank for collection of bottoms product with 2 litres capacity.

Three tube-in-tube heat exchangers.

Metering pump with flow rate of 0 to 8.5 litres / hour.

6 digital thermometers with probes protected by stainless steel shield sleeves.

6 electronic indicators.

Vacuum circuit with trap.

Pipework manufactured from stainless steel.

Electrical control unit IP55, complying with EC standards.

Emergency stop button.

Thyristor unit for controlling the power to the reboiler electric heater.

2 programmable timers for the control of reflux ratio.

Oil vacuum pump with flow rate of 4 m³ h.

Variable area flow meter with a range of 20 to 250 l/h and 4-20 mA output signal.

2x electro-pneumatic converters 4 to 20 mA / 0.2 to 1 bar.

Electronic residual pressure transmitter range of 0 to 1000 mbar, 4-20 mA output signal.

Pneumatic valve for controlling the flow rate of the condenser cooling water, Cv = 0.32.

Pneumatic valve for controlling the residual pressure, Cv = 0.32.

Microprocessor digital PID controller with serial card.

Variable area flow meter with a range of 20 to 250 l/h and 4-20 mA output signal.



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