

Product Name :
Automated Continuous Distillation Pilot Plant

Product Code :
Chemical0032



Description :

Automated Continuous Distillation Pilot Plant

Technical Specification :

Automated Continuous Distillation Pilot Plant

Specifications:

- 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 pt100 probes protected by stainless steel shield sleeves.
- 6 electronic indicators
- Thyristor unit for controlling the power to the reboiler electric heater
- 2 programmable timers for the control of reflux ratio.
- Vacuum circuit with trap
- Pipework manufactured from stainless steel
- Electrical control unit IP55, complying with EC standards
- Emergency stop button.
- 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
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- Pneumatic valve for controlling the flow rate of the condenser cooling water, $C_v = 0.32$.
- Pneumatic valve for controlling the residual pressure, $C_v = 0.32$
- 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
- Microprocessor digital PID controller with serial card

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