

Product Code . ILS-ELE-10575

Automated Batch Distillation Pilot Plant



Description




Specifications:-

- Reboiler with 5 litres capacity complete with 2,500 W electric heater.
- Reflux head with solenoid valve for control of reflux ratio.
- Distillation column height 1,100 mm with stainless steel mesh packing.
- 8 thermocouples with probes protected by stainless steel shield sleeves.
- 2 graduated tanks for collection of distillate with 1 litre capacity.
- Tube-in-tube heat exchangers manufactured from AISI 304 stainless steel for cooling the distillate.
- 2 programmable timers for the control of reflux ratio.
- Electronic indicator for display of differential pressure.
- Flow meter for measuring the flow rate across the condenser with a range 0 to 250 litres / hour.
- Vacuum gauge range $\hat{\text{€}}1$ to 0 bar.
- 8 electronic temperature indicators.

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- Thyristor unit for controlling the power to the reboiler electric heater.
 - Variable area flow meter with a range of 0 to 250 l/h and 4-20 mA output signal.
 - Electro-pneumatic converter 4 to 20 mA / 0.2 to 1 bar.
 - Electronic absolute pressure transmitter range of 0 to 1000 mbar, 4-20 mA output signal.
 - Liquid ring vacuum pump 700 W with air/water separator and check valve.
 - Electrical control panel in main cabinet.
 - Emergency stop button.
 - Pneumatic control valve DN15, Cv = 2.5.

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