Product name:	Product code:
Liquid-Liquid Extraction Unit	NEECHL0240



Description

Liquid-Liquid Extraction Unit

Technical specification

- 5 tanks of stainless steel , with capacity of 20 L
- Extraction column of borosilicate glass consisting 26 stages, h = 1500 mm, and including a disc stirrer of stainless steel, 2 separators of borosilicate glass and variable speed motor (0 to 1000 rpm)
- 2 metering pumps of stainless steel , with flow rate of 0-40 L/h
- Distillation column of borosilicate glass with vacuum jacket
- Reflux head of borosilicate glass
- Solenoid valve for controlling the reflux ratio
- Reboiler of stainless steel, with capacity of 7 L, for the distillation column
- Electric heater of stainless steel, P = 3000 W
- Thyristor unit for controlling the electric heater
- 2 timers for controlling the reflux ratio
- Overhead condenser of borosilicate glass with exchange surface of 0.3 m2
- Flowmeter for the water feeding the head condenser, with range of 20 to 250 L/h
- 3 thermoresistances Pt 100 with sheath of stainless steel
- 3 board-type electronic digital temperature indicators
- Tube-in-tube heat exchanger of stainless steel : for cooling of column outlet product and for cooling of distillate
- Tank of borosilicate glass, with capacity of 3 L, for collecting the column outlet product
- Graduated tank of borosilicate glass, with capacity of 1 for the collection fo distillate
- Piping and valves of and stainless steel
- Switchboard, complying with EC conformity mark, including plant synoptic and ELCB
- Emergency button

Complete with: Silenced air compressor

- 220-240 V / 50 Hz
- Air displacement: 50 L/min.
- Safety valve
- Pressure gauge
- Motor with thermal overload protection
- Operating pressure: max. 10 bar controlled by a pressure switch
- Noise level: 40 dB /1 m
- Size of the air tank: 24 lt.
- Power: 0,5 HP

Refractometer

- Measurement range of refractive index ND 1.300 – 1.700
- Measurement accuracy ND ± 0.0002
- Mass fraction (BRIX)
- Temperature range: 0/70°C
- Enlargement 2x

Installation & Basic operational training

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This plant consists of a liquid-liquid extraction column of glass with rotating discs installed aside a distillation column. This last column can be used to recover the solvent used for the extraction, or separately for the study of distillation process.