

Product Name :
Liquid Liquid Extraction Unit**Product Code :**
ALABS-A104-296**Description :****Liquid Liquid Extraction Unit**

- A glass liquid/liquid extraction column, length 1.2m, diameter 50mm.
- Water feed pump with flow control valve, range 0-800ml/min with 30 litre supply and collection tanks.
- A metering pump, range 0-250ml/min, is used to feed solvent from the 14 litre stainless steel tank.
- A stainless steel distillation column comprising four sieve plates in a glass section, a water cooled condenser, a 1kW 5 litre electrically heated boiler and a stainless steel condensate collection tank, is used for solvent recovery.
- All items are mounted in a floor standing welded steel framework.
- The unit is controlled from a panel with diagrammatic display of the process with controls at appropriate points on the diagram.
- A comprehensive instruction manual is included.

Description:

The equipment, mounted in a floor standing, welded steel framework, consists of a glass liquid/liquid extraction column packed with Raschig rings together with an integral distillation column for solvent recovery. Water for the extraction column is pumped from a supply tank via a flow control valve and flow meter to an injector in the base of the column and flows from an outlet pipe at the top to a collection tank. Solvent from a stainless steel feed tank is pumped via a metering pump to the top of the column and flows counter-current to the water supply. Solvent drains under gravity to a stainless steel receiver vessel from where it may be directed into the feed tank or to the distillation column boiler. Provision of interface height control allows either the lighter or the heavier phase to be the continuous phase with the counter flow being discontinuous (droplets). Distillate is condensed and collected in a third stainless steel tank. Condensed solvent may also be returned to the feed tank for recirculation. Sensing electrodes and a solenoid valve control the level of the water/solvent interface at the top or bottom of the column as required. Control of the equipment is simple. A panel displays the complete solvent/water flow system with controls at the appropriate points on the diagram.



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