

Product Name :
Solid-To-Liquid Extraction Demonstrator**Product Code :**
ALABS-A188-001**Description :****Solid-To-Liquid Extraction Demonstrator**

Description

Solid-to-Liquid

Extraction Demonstrator is equipped with all components required to operate the system. The solvent is stored in a solvent feed tank with an integral heater. Thus, the temperature of the solvent can be varied by manipulating the power to the solvent heater. The solvent is pumped at a constant rate into the extraction column by the solvent feed pump. A flowmeter is included in the solvent feed line. The extraction column is constructed out of glass to allow observation of the extraction process. The solid material is held in a removable retainer. Sampling ports are included at the inlet and outlet of the extraction column. The process is compatible with a distillation column which allows solvent recovery and/or concentration of the extract. The distillation column includes an electrically-heated boiler with variable power control, a condenser, reflux assembly, and temperature and sampling points to monitor the system performance. All

points requiring vents are tied together to allow one outlet for removal of solvent vapors. All temperatures that need to be monitored are indicated by a digital thermocouple display.

Technical Specifications

Extraction column:

- volume – 1 liter

Solvent feed pump range:

- 0 to 250 ml/min.

Solvent feed tank:

- 5 liters

Solvent heater:

- 0 to 500 watts

Distillation column:

- 100 mm length
- 50 mm diameter

Distillation column boiler:

- 5 liters

Distillation column boiler heater:

- 0 to 1000 watts



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