

Product Name :
Solid Liquid Extraction Unit

Product Code :
NLAB-TECHNICALAB37009

Description :

Solid Liquid Extraction Unit

Technical Specification :

A continuous three stage solid/liquid extraction system using the rotary extraction cell design. The rotacell rotation speed is variable (0-4 revs/hour).

Delivery of feed material is automated and feed rate is variable (0-3 L/hr).

Operation modes are batch, or continuous with 1, 2 or 3 stages. Independant temperature control is provided at each stage. Flow of all three solvent stages is variable (0-13.5 L/hr).

Conductivity of the fluid stream is measured at the input, and at the output of each of the three stages.

Experimental capabilities include:

Demonstration of batch and continuous multiple stage liquid/solid extraction processes. - Investigation into the effect of solvent temperatures and flow rates of solvent and solids. - Mass balancing. - Process economics.

Solid Liquid Extraction Unit Features :

Self contained floor standing unit with integral control and instrumentation console

Three stage extraction process, can also be configured as 1 or 2 stages

Independent vessel for closed loop batch extraction

Temperature control at each stage

Individual control of solvent feed pumps at each stage, of cell rotation rate and of feed rate

Probes at each stage allow full monitoring of the process

With the data logger, the product concentrations can be directly displayed in real time (for the recommended

material)

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