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Product Name :
Solid Liquid Extraction

Product Code :
LBNY-0005-10300015



Description :

The Solid Liquid Extraction allows a soluble component of a solid mixture to be extracted with a revolving extractor. In continuous 3-stage mode, pure solvent is delivered from a tank to the sprinkler of the first extraction stage where it is distributed over the solid mixture. The extraction material and the solvent move in counter flow. The extraction residue drops into a tank after one revolution of the extractor. Valves can be used to switch to 1- or 2-stage continuous mode. After passing through the last stage, the extract collected in the extract tank. The extraction material is continuously fed into the cells of the rotating extractor by a spiral conveyor. The solvent seeps through the extraction material, absorbs its soluble components and passes into the collecting segments. From there, the enriched solvent is delivered to the sprinkler of the next stage. Discontinuous mode is possible with the extractor stopped.

Features:

Regenerable extraction material
Discontinuous and continuous solid-liquid extraction
1-, 2- or 3-stage modes possible.

Technical Specification :

Extractor revolving speed adjustable by potentiometer
Temperature of solvent adjustable for each stage by PID controller
Tanks for extraction material, extraction residue, solvent and extract
Spiral conveyor with variable speed to adjust the extraction material feed rate
Revolving extractor for continuous and discontinuous solid-liquid extraction
Switching to 1-, 2- or 3-stage modes possible by valves

Flow rate of solvent adjustable for each stage via speed of pumps.



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