

MSU SQ Lab - LABORATORY MIXER-SETTLER EQUIPMENT

- Equipment ideally suited for:
- Flow Sheet Evaluation
 - Pilot Plant Operation and Small Scale Production
 - Education and Industrial Training



MSU SQ Lab laboratory and pilot scale mixer-settler units are traditionally designed pump mixer-settler units, with squared mixing chambers (mixers) and box-type settling compartments (settlers). The mixers are equipped with adjustable speed stirrers and the settlers with picket fences for the distribution of the dispersion over the whole cross-section of the settler. An adjustable jackleg for the outflow of the heavier solvent controls the phase boundary level at varying liquid densities. A heavier solvent recycle is integrated in the construction. Each unit is designed to operate hydrodynamically independent of other units, an advantage that enables all units to be placed horizontally, one after the other. This arrangement implies flexibility in the experimental set-up. Experience shows that the mixer-settler units are large enough to provide reliable chemical data and sufficient product solutions for further evaluation. At the same time, the units are small enough to minimise consumption of chemicals, maintenance, operator attendance and other related costs.



The MSU laboratory mixer-settler units have been produced in stainless steel (SS), polypropylene (PP), polyvinyl chloride (PVC) or polyvinylidene fluoride (PVDF) according to customer's demand. The units are produced for 50-500 l/h total flow and are commonly used for pilot scale experiments to evaluate and demonstrate process conditions in Solvent Extraction operation.

MSU-5 SQ Mixer-Settler Arrangements

MEAB Produkt Info 02-2010

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