

EMS-20

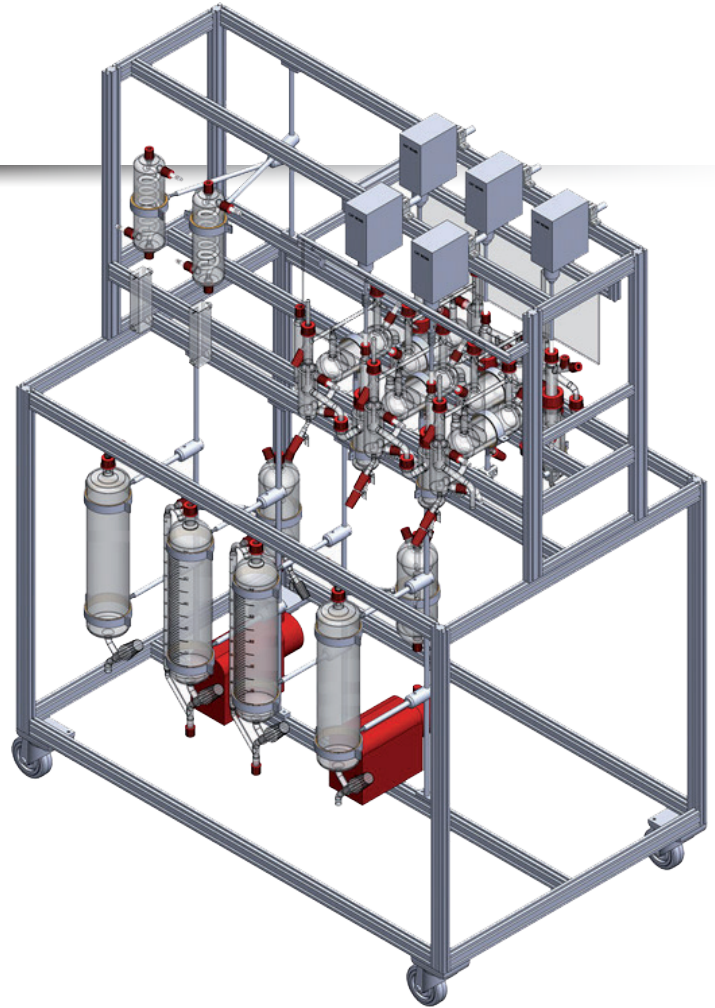
Mixer-Settler Extractor

EMS-20 Mixer-Settler Extractor for liquid extraction according to the Mixer-Settler-principle, design according to Dr. E. Müller (Lurgi). EMS-20 Mixer-Settler Extractor with screw stirrer for intensive mixing of the phases, especially suited for metallic salt extraction. Pumping capacity and residence times are changed by adjusting the stirrer speed. An additional advantage of the unit is the application for extractions during which reactions of considerable density changes occur.

Typical application for this universal apparatus are:

- Metal salt extractions
- Mixtures with low surface tension
- If the dispersed phase coalesces with difficulty
- If variation in residence time of the phase occur in the extraction stages
- If considerable changes in density are expected as a result of extraction

Extraction parameters determined by this unit can be scaled up. All parts in contact with the product are made of borosilicate glass 3.3 and PTFE. Once adjusted, EMS-20 Mixer-Settler Extractor works maintenance-free and can be switched on or off without changing the hydrodynamic conditions.



Specifications

Total Throughput	Max. 5 l/h
Throughput per Phase	0,1...2,5 l/h
Settler Volume	250 ml
Number of Stages	5
Stage Efficiency	approx. 95%
Material	Borosilikat glass 3.3, PTFE, Stainless steel
Power Supply	230 V, 50...60 Hz
Dimensions (L x B x H)	1.250 x 1.000 x 1.500 mm (10 stages)