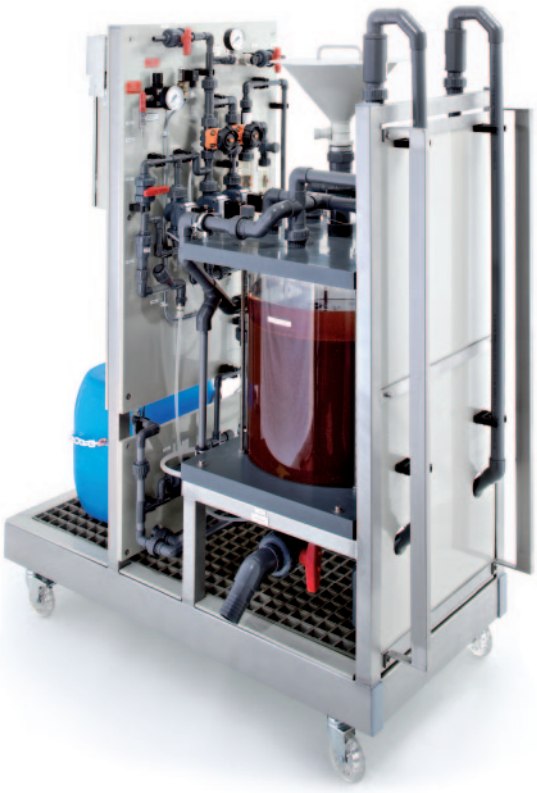
Dr. Thiedig

REGENERATION SYSTEM

PE 17.40.60



Automatic regeneration station for the preparation of cation exchanger mass in batches

The regeneration station PE 17.40.60 enables the fast, efficient, safe and almost automatic preparation of cation exchanger mass for the next utilisation cycle.

Large quantities of exchanger mass are prepared in just a few hours to achieve the highest quality levels. Monitoring the conductivity reached thereby clearly improves the otherwise customary run-in procedure after the regeneration.

The unit can be selectively used for both hydrochloric acid and sulphuric acid, which considerably improves – in particular – the execution of time-consuming preparation processes in the nuclear power plant.

The protection of the personnel by sophisticated and state-of-the-art safety systems is – also in conventional power plants – a positive side effect of an automated plant.

Regeneration system

SPECIFICATIONS

- **Regeneration of up to 60 l of exchanger mass in one cycle**
- **Automatic regeneration process from the loosening-up to the conclusive flushing with continuous monitoring of the conductivity in the sample current**
- **Mobile station for the operation at any location**
- **Homogeneous regeneration through an innovative agitation system**
- **Fail-Safe charging of chemicals through injector pump (water/acid) as well as a redundant safety system for pressure increase or operating errors**
- **Extremely maintenance-free system**

TECHNICAL DATA

REGENERATION SYSTEM

PE 17.40.60

Device	Automatic regeneration system PE 17.40.60 (mobile station for the operation at any location)
Dimensions	1310 x 600 x 1690 mm (LxWxH)
Weight	approximately 180 kg
Regeneration container volume	75 l
Max. loading volume	approximately 60 l
Power supply	230 VAC / 50 Hz
Power consumption	approximately 250 VA
Protection system	IP 65
Operation temperature	+2 – 35°C
Materials used	PP, PE, acrylic, VA
De-ionised water supply	4 – 15 bar
Compressed air-supply	4 – 16 bar
Control system	SIMATIC S7-200
Indicating device	SIMATIC S7-200 TD200
Conductivity measurement	ecoTRANS Lf01 (other types upon request) continuous monitoring of the conductivity in the sample current
Process cycle	Automatic regeneration process from the loosening-up to the conclusive flushing; closed operating principle, pressure-operated • Homogeneous regeneration through innovative agitation system • Fail-Safe charging of chemicals through injector pump (water / acid) • Redundant safety system for pressure increase or operating errors
Charging	very user-friendly (funnel diameter 35 cm in a height of 1.60 m)
Extraction	very easy extraction of the re-freshed resin – also directly in the cation filter
Undercarriage	stainless steel frame including 2 locking brakes as well as • drain tray • outlet valve • collision protection • funnel cover + threaded sealing lid • chemical tank with position-independent leak security
Maintenance	almost maintenance-free

Subject to technical alterations.

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