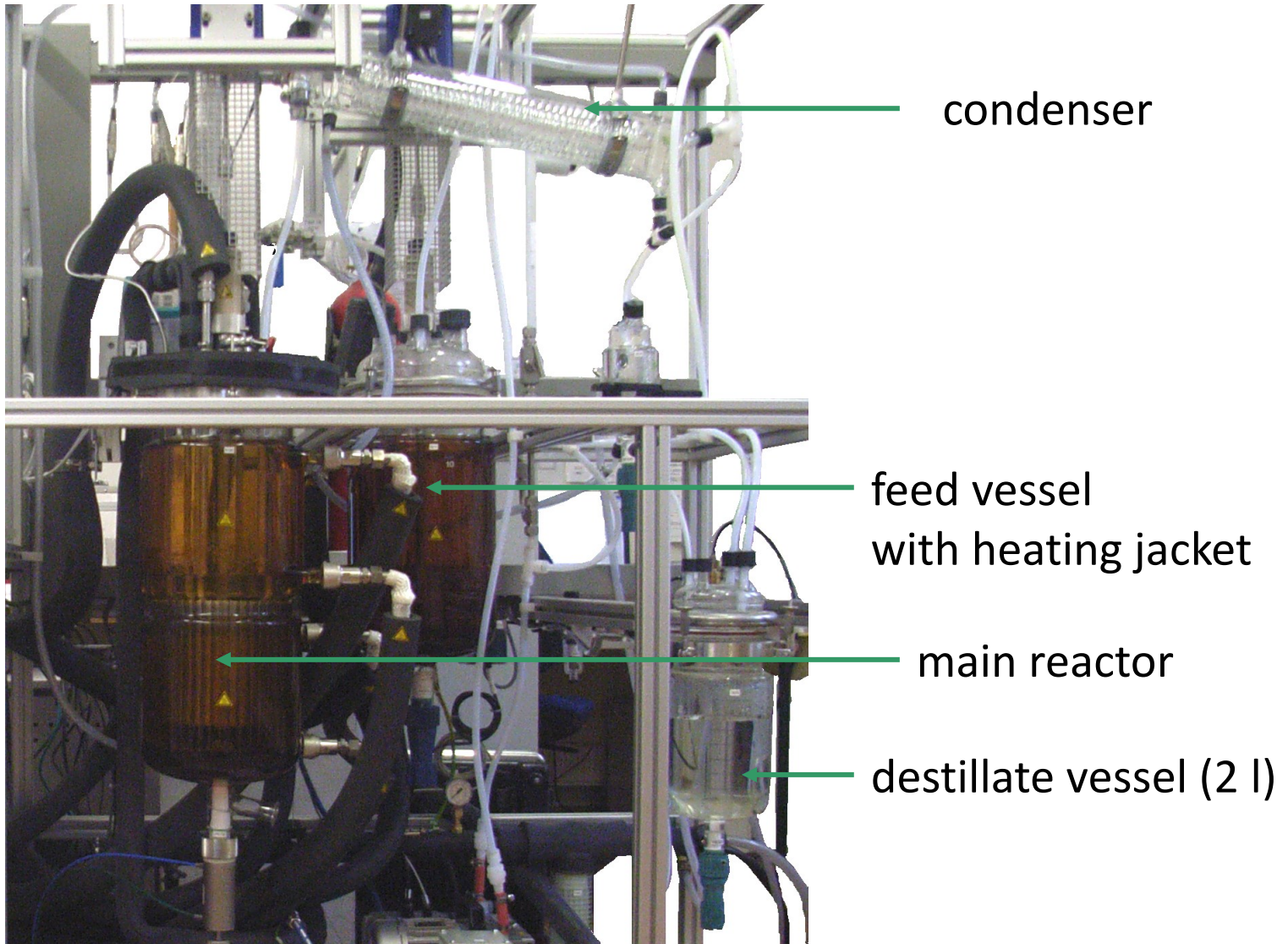


Crystallization at Elevated Temperature under Vacuum

Crystallization Plant

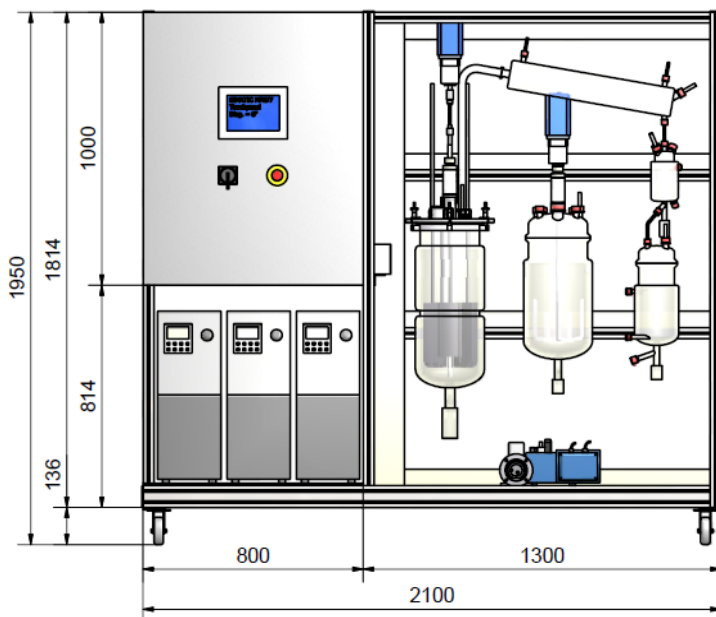


- 10 l and 15 l stirred reactor
- Easy operation with touch panel
- Heating jacket for up to 150 °C
- Vacuum pressure control

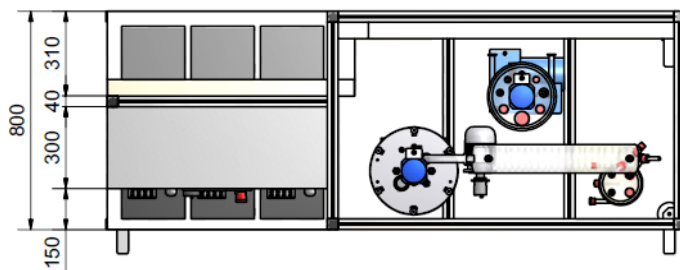


Short description:

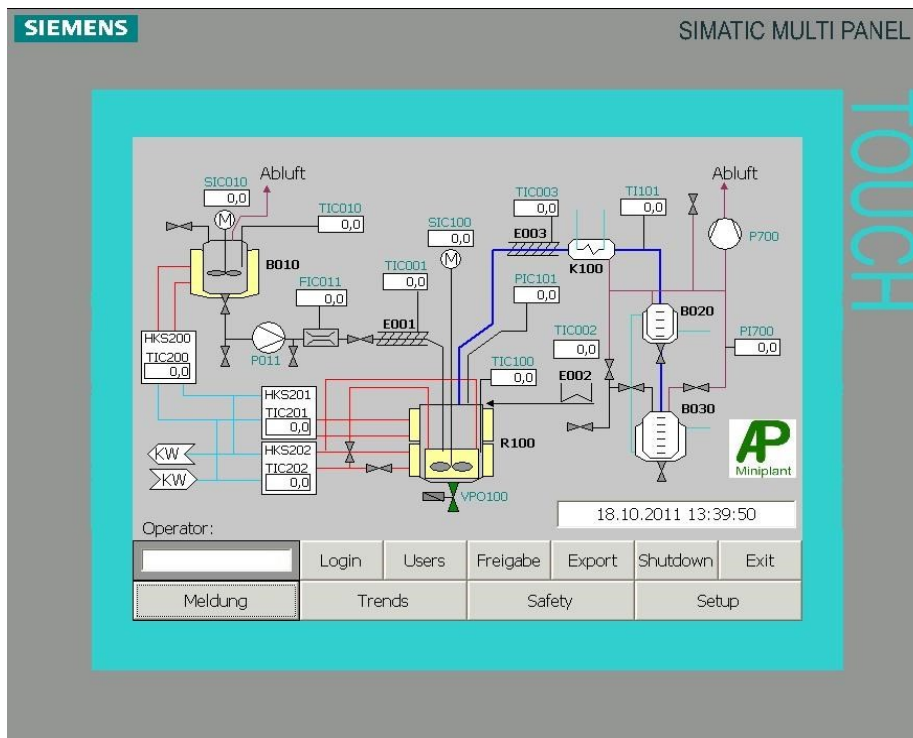
The plant is designed to crystallize solid from a concentrated aqueous solution under vacuum. The feed vessel is equipped with a heating jacket and a propeller stirrer. The feed lines to the main reactor vessel are trace heated. The crystallization takes place in the glass reactor. It is equipped with a heating jacket, which is divided into an upper and a lower part and a special finned heat exchanger. Both parts are connected to different thermostats. The vaporized liquid is condensed in glass condenser and collected in two different vessels.



top view



Stirred reactor with heating jacket and finned heat exchanger



Easy operating using Siemens
Simatic Multi Panel™

- Easy operation,
- compact overview over all relevant process parameters,
- numerous safety settings,
- trend visualization,
- data export to MS Excel™.

Technical Data	
Plant Dimension B x T x H	2100 mm x 800 mm x 1950 mm
Weight	480 kg
Electrical supply	400 V, 16 A, 6,4 kW
Ambient conditions	5 to 35 °C, max. humidity 80%
Instrument air	1.5 to 16 bar, max. 3 bar are needed
Cooling water needed	1 to 6 bar, $\Delta p_{\max} = 0.3$ bar
Design temperature	Tmax = 150 °C
Pressure range	0 to 1 bar
Materials with product contact	Borosilicate glass, stainless steel: 1.4404, 1.4571, AISI 316, 316L, PTFE

- MS Excel™ is a trademark of the Microsoft corporation
- Simatic is a trademark of Siemens AG

AP-Miniplant turn-key research plants are used for:

- Absorption, Adsorption, Extraction
- Reactive distillation. Distillation, Rectification, Evaporator, Humidification
- Precipitation, Stirred Reactor, Dryer, Mixer, Filter
- Polymerization Reactor, Polycondensation, Gas Phase Polymerization
- Catalyst Test System, Fixed Bed Reactor, High Temperature Furnace
- Training Plant, Container Unit, Gas, Liquid and Solid Dosing



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