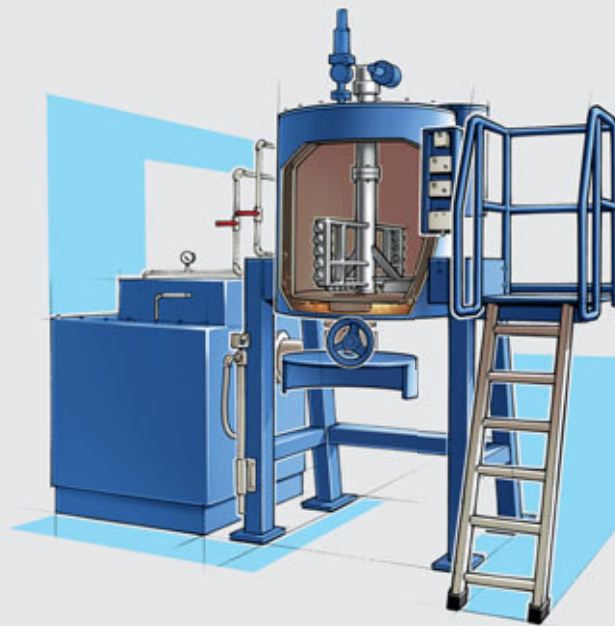
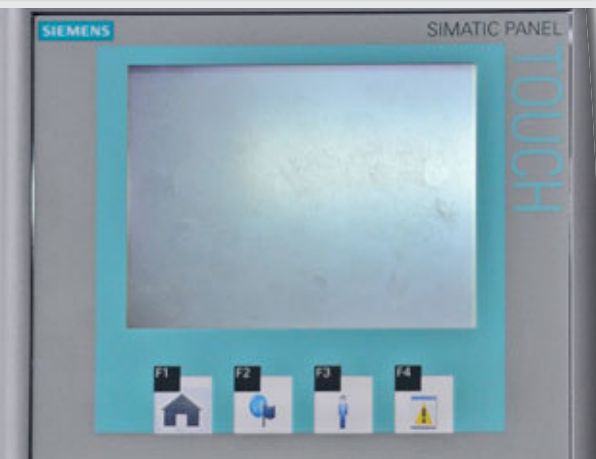


Type ROTO



Type ROTO 9-18

distillation unit	ROTO 9	ROTO 12	ROTO 18
filling volume	ca. 140 l	ca. 250 l	ca. 400 l
vessel volume	ca. 300 l	ca. 480 l	ca. 700 l
distillation output *	ca. 30-60 l/h	ca. 40-80 l/h	ca. 60-100 l/h
cooling water flow rate **	ca. 0,7 m³/h	ca. 1 m³/h	ca. 1,5 m³/h
heating energy	9 kW	12 kW	18 kW
weight **	1300 kg	2200 kg	2500 kg
	W x H x D	W x H x D	W x H x D
dimensions mm ***	1300x2650x1700	1450x3400x1800	1560x3900x2000
required space mm ****	3500x3200x3600	4000x3700x4500	4000x3900x5000
Shipping dimensions mm	1500x1600x2800	1600x2300x2000	1750x2450x2100
* Distillation output depends on the solvent ** If water from the public supply system is used; depends on the water temperature and the boiling point of the solvent, closed cooling circuit without water consumption is possible *** Standard version without accessories, without solvent container **** Required space with 2 containers app.			

ROTO components

- Cylindrical, vacuum-tight distillation vessel made of stainless steel
- Insulated heating jacket, floor and lower jacket surface with thermal oil and integrated electric heating elements (basic version), or **main-tenance-free heating** (heating temperature max. 130°C) filled with water and equipped with heating elements. Alternatives: connection to a customer supplied warm water-, steam- or thermal oil system.
- Water-cooled stainless steel condenser
- Rotating scraper system (rotor), prevents incrustations on the heating surfaces and agitates the material to be distilled
- Dirt-resistant discharge valve, operated manually or pneumatically
- Unit on sturdy frame with stairs at the side and an observation platform (accessory for ROTO 9)
- Discharge height adapted to disposal container and/or 200-l-barrel (on a pallet) (accessory for ROTO 9, standard discharge height 650 mm). Other heights are possible.
- Optional: adapted residue carriage (only with ROTO 9)
- Sight glass and explosion-proof halogen lamp for observing the distillation process
- Automatic filling stop by means of a vibration limit switch and a pneumatic ball valve in the filling line
- Batch distillation or continuous distillation possible
- ex proof control elements at distillation unit: for vacuum, filling, heating, rotation of scraper and EMERGENCY STOP
- control cabinet with programmable logic control (PLC) with text display, input and/or display of chronology and separate times of the functions vacuum, filling, heating, scraper and distilling down

Accessories

- Vacuum unit for lowering process temperatures, with either a liquid ring vacuum pump (for solvents with a flash point > 55°C) or a liquid jet vacuum pump
- Residue temperature control system for processing heat-sensitive substances
- Distillation output monitor for automatic distillation stop when the output drops below a set limit
- Timer for automatic distillation start
- Seal plate or exhaust hood adapted to on-site disposal container, optionally with an air extraction system
- Thermostatic valves if the unit is connected to an on-site cooling/public water supply; separate cooling water devices with separate circuits are available as option.