

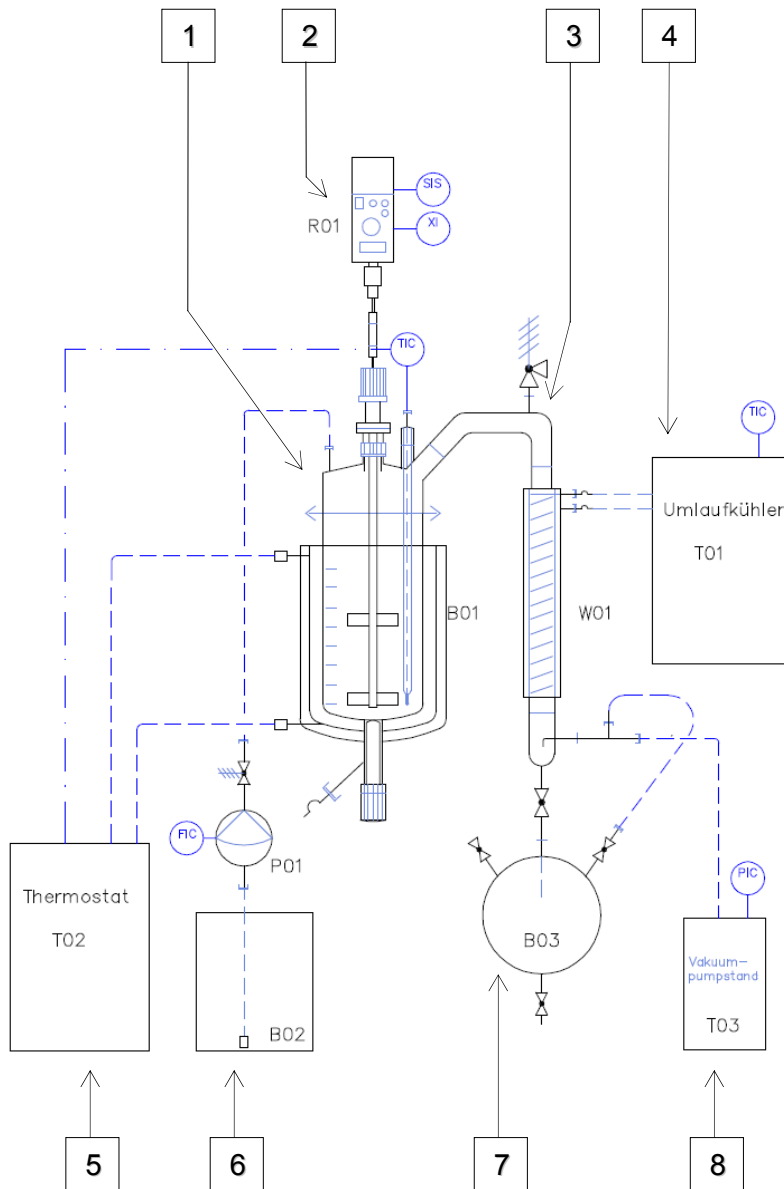
NORMAG crystallisation apparatus

- **NORMAG** design for high reproducibility and efficiency
- **Customer-specific design and training**

The **NORMAG** crystallisation apparatus is a continuously operated crystallizer, which is particularly suitable for capturing crystallization kinetic data. The design as a double-walled vessel with an additional vacuum insulating jacket supports temperature consistency and supersaturation. In the steady state, kinetic data can therefore be defined relatively easy from a grain size distribution.



NORMAG crystallisation apparatus



Plant characteristics

- 1 B01 Double-jacked reactor with additional vacuum insulating jacket
- 2 R01 stirrer motor with magnetic stirrer seal, double-wing stirrer (PTFE)
- 3 Distillate bridge with overpressure valve, spiral condenser 0.3 m²
- 4 T01 circulating chiller (optional)
- instead of conventional water cooling
- 5 T02 thermostat
- Internal/external Pt100
- 6 B02 feed vessel
- 7 B03 solvent feed
- Customer-specific size
- 8 T03 vacuum pump stand
- final vacuum <5 mbar

Typical applications:

- Crystallisation, boiling, stirring
- Process optimisation

Options:

- Various sizes available

Technical specifications:

Dimensions:	1500x1800x550 mm (HxWxD)
Reactor temperature range	20...200 °C (optionally up to 300°C)
Reactor volume	10 litres
Pressure range	-1 / 0.3 barg
Energy supply:	
Electrical power	230V/50Hz
Coolant:	Water