

2-Stage Melt Polymerization



- 2 jacketed 10 l high temperature reactors with 6 and 30 bar, 350 °C
- 3 Thermostats for reactors and partial condenser
- Vacuum system with in total 11 redundant liquid N₂ cooling traps
- Fully automated with industrial control system

Technical data

Dimension plant (W x D x H)	2770 x 1390 x 1910/2460 mm (incl. switching cabinet)
Weight plant	1470 kg
Electrical supply	3P ~ 400 V / 50 Hz / 63 A
Ambient conditions	10 to 35°C
Pressure conditions	- 1 to 30 bar / vacuum 0,1 mbar, PED Category III
Temperature conditions	- 10 to 350°C
Reactor type	2x reactors of stainless steel , 10 L 6 bas, 10 L semi conical, 30 bar, reactor lift
Receiver tanks (to fuse)	tank (5 l) with heating sleeve
Thermostat	9 kW / 50-330°C (receiver reactor) / 9 kW / 50-350°C (main reactor) / 30-200°C (dephlegmator)
Torque measurment	175 Nm



Switching cabinet
(inside)



Vacuum system



Cooling traps



Main reactor

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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