

PRODUCT PROFILE QVF MINIPLANT 4 LITER REACTION SYSTEM WITH MIXER-SETTLER

Description

This custom designed QVF MINIPLANT SERIES REACTION SYSTEM WITH PHASE SEPARATOR by De Dietrich Process Systems permits agitated reaction, simple distillation, boiling with reflux and phase separation. All process-wetted parts are either borosilicate glass or PTFE thereby assuring complete process visibility, superior corrosion resistance and a product untainted by impurities.

Specifications

System Design Pressure: -1/0.1 barg
System Design Temperature: -20°C to 150°C

Jacketed Glass Reactor Volume: 4 Liter

Glass Feed Vessel Volume (Quantity 2): 1 Liter, Graduated Glass Receiver Volume: 2 Liter, Graduated

Glass Reflux Condenser: 0.2 m² Heat Transfer Area

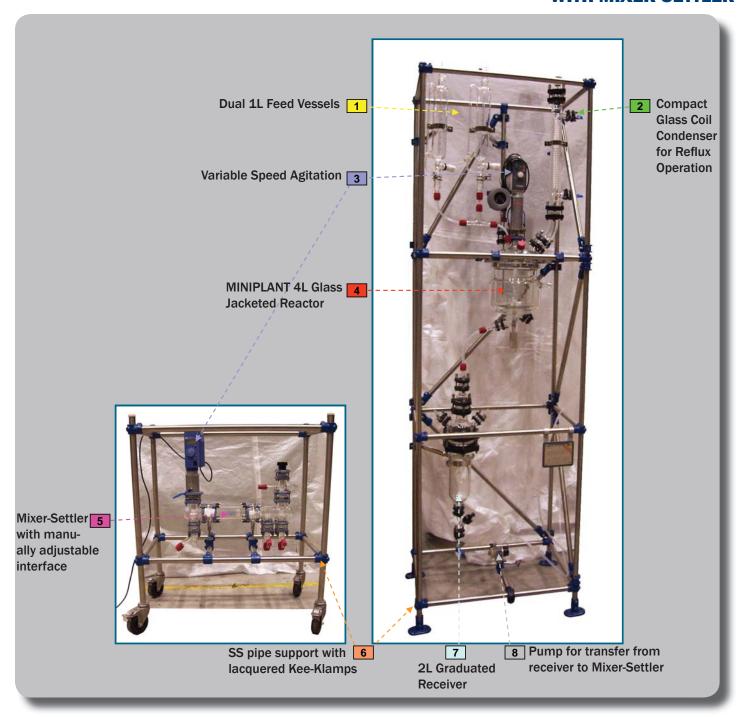
Coil Pressure Rating: 3.0 barg
Heating Media Pressure Maximum: 0.5 barg

Scope of Supply

- 1 x QVF MINIPLANT jacketed, graduated, borosilicate glass reaction vessel and bottom drain valve with PTFE plunger.
- 1 x QVF borosilicate glass reactor cover with 5 connecting ports: 2 x DN40mm, 1 x GL32 mm w/screw cap, 1 x GL25, 1 x DN 25.
- Agitation systems with 12-400 rpm and 20-2000 rpm, hand adjusted, 115V / 60 Hz gear motor, protection class IP40, digital speed indicator, electronic speed control, digital torque indicator and analog / digital interface; single mechanical seal (SiC Slide Rings, Kalrez O-ring), and PTFE inclined blade stirrer and PTFE coated shaft.
- 1 x QVF Coil Condenser, DN1.5", 0.2 m² heat transfer area; maximum cooling media pressure, 3.0 barg.
- 2 x QVF graduated borosilicate glass feed vessels, 1 liter.
- 1 x QVF graduated borosilicate glass receiving vessel, 2 liter.
- 1 x DN50 horizontal, Mixer-Settler assembly w/ electric motor and PTFE coated turbine stirrer, mixing and settling heads and adjustable interface level. Mounted on a mobile, independent skid. Flexible connection with PFA tubing can be made to the reactor system or other equipment.
- Stainless steel tubular support structures for reactor assembly and Mixer-Settler assembly.
- Pump for liquid transfer from Reactor to Mixer-Settler, Kynar wetted pump surfaces.
- Complete engineering design package including:
 - General Arrangement Drawings and Parts List
 - Documentation and Owner's Manual



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