



engineered systems

PRODUCT PROFILE

QVF STANDARD REACTORS

QVF Standard Glass Reactor Series:

The QVF Standard Reactor Series are available in sizes of 30, 50, and 100-L. The reactor systems are widely used in research and development as well as kilo plant production applications throughout the chemical, biotech, and pharmaceutical industries. One reason for this extensive use is the special properties of

borosilicate glass 3.3, which combines process visibility, purity, corrosion resistance, and long term service.

Complemented by other highly corrosion resistant materials such as PTFE, SiC and De Dietrich Glass Lined Steel, the QVF Glass Reactor Series can handle a variety of functions.

Standard Features:

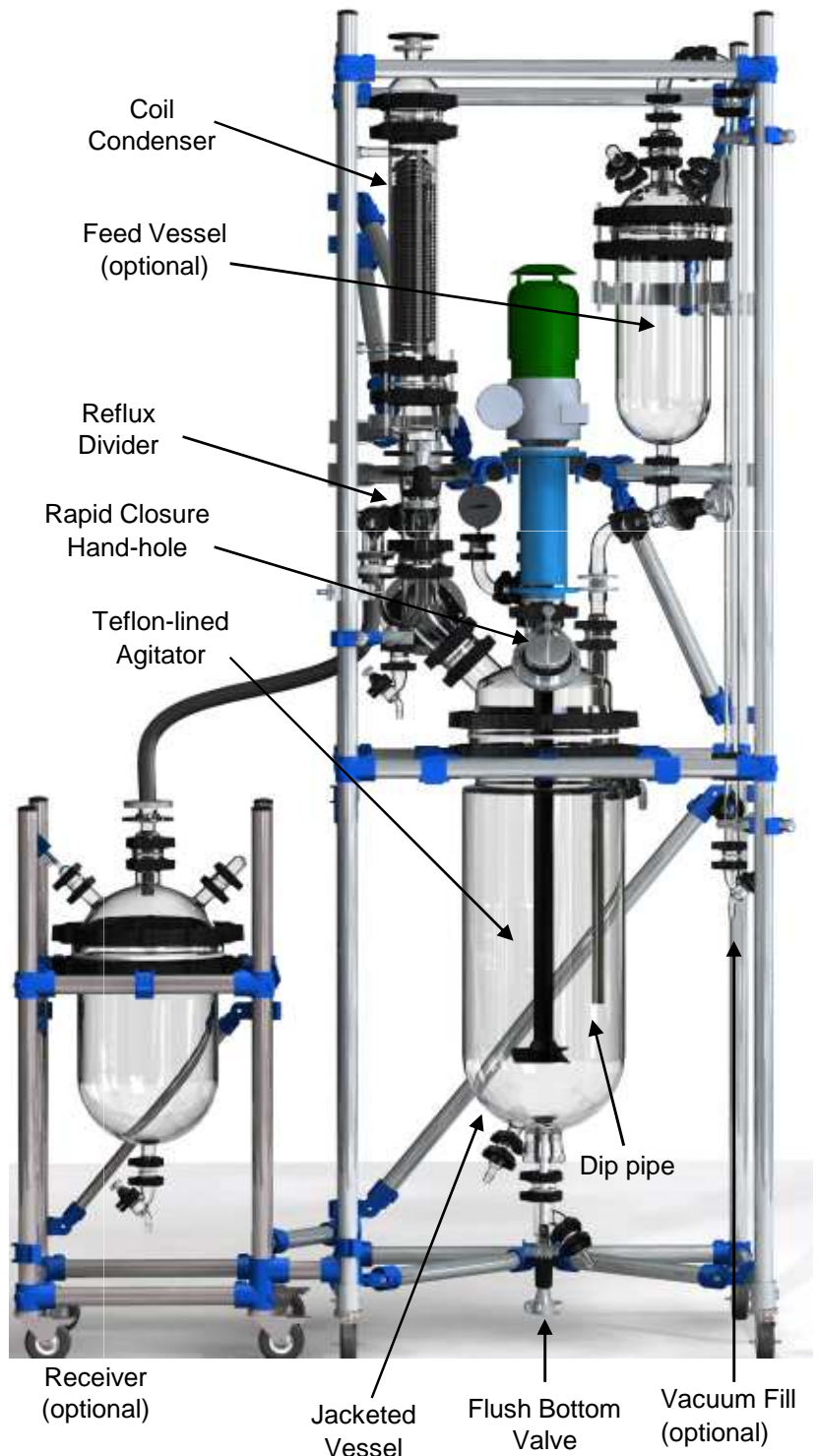
- Single dry mechanical seal
- Bottom outlet valve with zero dead space
- Temperature & pressure gauges
- Graphite rupture disk assembly
- Rapid closure hand hole assembly
- Dip pipe for liquid addition
- Interconnecting piping, valves & fittings
- Galvanized support structure
- Explosion proof motor
- Double bearing for agitator support

Common Options:

- Feed vessel
- Glass lined Steel jacketed reactor bottom
- Receiver vessel
- High temperature double mechanical seal
- Bottom outlet temperature sensor
- Temperature control module
- Vacuum system
- Phase separator
- Horizontal condenser
- Distillation overheads featuring DuraPak®
- Reactor bottom lift device
- Additional instrumentation/transmitters
- Variable frequency drive

Sizes:

- Stock standards: 30, 50 & 100 Liters
- Pre-engineered standards: 5L to 100 Liters
- Temperature rating: -50°C to 120°C (higher temperature available, to 200°C)
- Pressure rating: Full vacuum to 0.6 Bar





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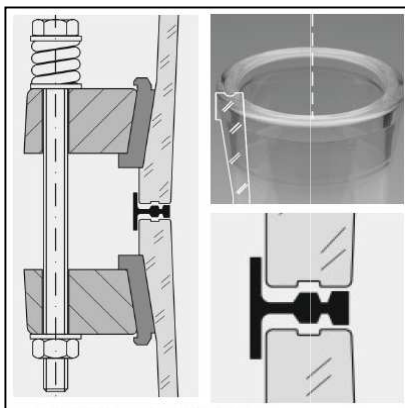
Key Features & Options:

QVF Safety & Quality:

All glass reactor components are fabricated from high quality World Product Range (WPR) borosilicate glass 3.3. Each part meets equipment safety regulations such as the Pressure Equipment Directive (ASME code equivalent) and carries the CE mark. Furthermore, WPR components are traceable for validated processes and ease of replacement.



Bottom outlet valve with zero dead space and optional thermowell



QVF fire polished ends with GMP gaskets for improved cleaning



Optional QVF glass Optimix reactor

Improved Delivery & Service:

- Pre-engineered for fast delivery
- All standard reactor components are in stock
- Quick turn around on replacement parts
- Customer spare inventory reduced



Special QVF reactor engineered to fit in tight height constraints; featuring options such as: lift mechanism, Optimix baffles, and horizontal coil condenser

Standard Sizes

Capacity		30L	50L	100L
Condenser	m ²	0.5	0.5	2.5
Feed Tank	L	5	10	20
Receiver Tank	L	20	20	30
Base Reactor w x d x h	mm	980 x 890 x 2800	980 x 890 x 3130	1130 x 850 x 3235

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