Jacketed Glass Reactor

Application:

Jacketed glass reactors are designed for synthetic reaction of different types of materials in a controlled temperature and vacuum environment. Each reactor features adjustable stirring speeds and a constant pressure feeding funnel that allows you to add material to the vessel at a uniform and controlled speed. The built-in condenser makes it possible to recover some materials, also at a controlled rate of speed.



1/2/3/5L



10-50L

Features:

* GG17 high borosilicate glass, with good chemical and physical properties.
* The evaporation and back-flow of reaction material can be controlled.
* The heat of reaction could be taken away quickly through water, cycling in the jacketed glass.
* The design of large bottle mouth, easier to clean.
* It can be used as a distillation syntheses device.
* The sealing performance is 0.098MPa.
* LED display, easier and more convenient to measure temperature.

Optional Equipment:

* Circulating water vacuum pump: (JGR-1L~5L, recommend mode SHZ-DIII, JGR-10L~50L, recommend model SHZ-95B)
* Refrigerated Circulator
* Circulating water/oil bath

Technical Parameters:

Model	JGR-1L	JGR-2L	JGR-3L	JGR-5L	JGR-10L	JGR-20L	JGR-30L	JGR-50L
Reaction Flask Capacity	1L	2L	3L	5L	10L	20L	30L	50L
Stirring Power	60W, fan with 1:3 reduction gearbox				120W, fan with 1:3 reduction gearbox			
Stirring Speed	0~450rpm							
Stirring Shaft Diameter	17mm							
Motor Torque	1.27N.m				2.42N.m			
Power Supply	Standard: AC220V, 50/60Hz; optional: AC110V, 50/60Hz							
Package Size (W*D*H)	1260*430 *480mm	1270*430 *480mm	1310*590 *540mm	1310*600 *540mm	1230*610 *750mm	1340*650 *780mm	1690*660 *780mm	1690*660 *780mm
Gross Weight	40kg	41kg	51kg	56kg	74kg	85kg	101kg	108kg

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High Pressure Reactor



Application:

The Reactor is a stirring device for reacting gas -liquid, liquid-liquid, liquid -solid or gas-liquid-solid materials. It can fully stir and react various chemical materials under higher pressure, vacuum and temperature. It is a non-leakage reaction equipment for vulcanization and hydrogenation in petroleum, chemical,organic synthesis, polymer material polymerization, food and other processes.

Features:

* Real-time monitoring of reaction pressure in the kettle.
* High power agitator motor, strong and stable performance.
* Using static sealing structure, the stirrer and the motor drive are connected by a magnetic coupling.
* The medium and mixing parts are completely sealed to work.

Technical Parameters:

Model	HPR-0.5L	HPR-1L	HPR-2L	HPR-3L	HPR-5L	HPR-10L	HPR-20L	HPR-50L
Capacity	0.5L	1L	2L	3L	5L	10L	20L	50L
Pressure	22MPa							10MPa
Temperature	350°C							
Stirring Speed	50~1000rpm				50~600rpm			
Material	SS304/SS316/Hastelloy alloy							
Heating Power	0.7kW	1.5kW	2kW	3kW	4kW	8kW	10kW	15kW
Power Supply	Standard: 220V, 50/60Hz; optional: 110V, 50/60Hz				Standard: 220V, 50/60Hz; optional: 380V, 50/60Hz	380V, 50/60Hz		
Packing Size (W*D*H)	620*480 *1430mm	490*690 *1490mm	740*590 *1590mm	770*520 *1580mm	840*590 *1650mm	970*620 *1380mm	1020*870 *1430mm	1700*820 *1580mm
Gross Weight	100kg	105kg	160kg	180kg	205kg	225kg	308kg	514kg

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