

Lab1st JGR-series jacketed glass reactors are designed as a multi-purpose reaction platform with controlled temperature and pressure environment, for both laboratory and scale-up applications.

Each reactor consists of a corrosion resistant jacketed glass reaction vessel, PTFE coated variable speed stirrer system, temperature probe and digital display, and other accessories like feeding funnel, coiled condenser and bottom discharge valve.

The JGR-L series glass reactors come with vessels from 500mL to 200L. It also can be fully customizable to fulfill various needs, like high torque high speed agitation, baffled reaction vessel, programmable controller, explosion proof or air driven motor, and a insulation jacket or 3rd layer of glass vacuum jacket.



Jacketed Glass Reactor

## Features:

- Larger vessel opening design, easier to clean
- All PTFE seals to increase durability and longevity
- Rugged, High RPM stirring motor for superior stirring power
- Easily visual operation with digital speed and temperature displays
- Wide range of temperature from -80°C to 250°C
- Durable stainless steel supporting framework with casters for mobility and stability

## Technical Data:

Model	JGR-50L
——TECHNICAL DATA——	
Glass Vessel Temperature Range	-120°C—250°C
Working Pressure Range	-0.1Mpa—Atm
Glass Material	High Borosilicate Glass
Vacuum Sealing	Machinery Seal
——ELECTRICAL DATA——	
Voltage [V]	110   220
Phase [P]	1
Frequency [HZ]	50/60
Total Power [W]	120W

GLASS VESSEL	
Volume	50L
Vessel Pressure	-0.1Mpa—Atm
Jacket Volume	16L
Jacket Pressure	≤0.05Mpa
Interface between Vessel and Drain Valve	80mm Flat Flange
Drain Valve Port	32mm Barb
Jacket Port	G 3/4" Male Thread
REACTOR LID	
Port 1 [Thermometer]	DN25 Flat Flange
Port 2 on the Lid [Vacuum Suction]	34mm Grinding Straight Joint
Port 3 on the Lid [Solid Inlet]	80mm Flange
Port 4 on the Lid [Constant Pressure Funnel]	40mm Grinding Straight Joint
Port 5 on the Lid [Reflux]	50mm Ball Mill Joint
Port 6 on the Lid [Stirring]	50mm Flange
CONDENSER	
Condenser Diameter [mm]	100
Condenser Height [mm]	730
Condenser Area [m <sup>2</sup> ]	0.65
Vacuum Port on the Condenser	12mm Barb
Condenser Liquid Inlet & Outlet Port	12mm Barb
Reflux Drain Port	12mm Barb
COLLECTION FLASK	
Collection Flask Number	N/A
Collection Flask Volume [L]	N/A
Continuous Collection Valve	N/A
AGITATOR	
Rotation Speed [rpm]	50~600
Rotation Controller	Electronic Speed Control
Motor Power	120W
Reduction Gearbox	1:3
Blade Layers	2 Layers
Blade Material	PTFE
ACCESSORIES	
Reflux Clamp	1pcs* [50mm Ball Mill Joint]
Agitator Port Clamp	None
Jacket Port Clamp	2pcs* [43mm Ball Mill Joint]
Thermometer Port Clamp	1pcs* [25mm Flange]
Drain Valve Clamp	1pcs* [80mm Flange]
Solid Inlet Clamp	1pcs* [80mm Flange]
WEIGHT   DIMENSION	
Installation Dimension [mm]	750×650×2450
Unit Weight [Kg]	120

## Package Information:

Length (cm)	Width (cm)
Height (cm)	CBM (m3)

Weight (kg)

Total capacity

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Product Serial No. 9059

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Technical details and dimensions are subject to change. No liability is accepted for errors or omissions. Illustrations can deviate from the original.

