JGR-5L

Jacketed Glass Reactor

Lab1st JGR-L 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.

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 (only suitable for the vessel that is larger than 5L)



Parameters

| Model | JGR-5L |
|--|-------------------------|
| 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 | 5L |
| Vessel Pressure | -0.1Mpa—Atm |
| Jacket Volume | 2L |
| Jacket Pressure | ≤0.05Mpa |
| Interface between Vessel and Drain Valve | 80mm Flat Flange |

Labfirst Scientific Instruments (Shanghai) Co., Ltd. www.lab1st.com | sales@lab1st.com | 86-13524020331 | 1-844-452-2178

PRODUCT DATA SHEET



| Drain Valve Port | 15mm Barb |
|--|------------------------------|
| Jacket Port | G 1/2" Male Thread |
| REACTOR LID | |
| Port 1 [Thermometer] | 19mm Grinding Straight Joint |
| Port 2 on the Lid [Vacuum Suction] | 24mm Grinding Straight Joint |
| Port 3 on the Lid [Solid Inlet] | None |
| Port 4 on the Lid [Constant Pressure Funnel] | 29mm |
| Port 5 on the Lid [Reflux] | 35mm Ball Mill Joint |
| Port 6 on the Lid [Stirring] | 50mm Flange |
| CONDENSER | |
| Condenser Diameter [mm] | 60 |
| Condenser Height [mm] | 450 |
| Condenser Area [m ²] | 0.15 |
| 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 | 1 Layer |
| Blade Material | PTFE |
| ACCESSORIES | |
| Reflux Clamp | 1pcs* [35mm Ball Mill Joint] |
| Agitator Port Clamp | None |
| Jacket Port Clamp | 2pcs* [43mm Ball Mill Joint] |
| Thermometer Port Clamp | None |
| Drain Valve Clamp | None |
| Solid Inlet Clamp | None |
| WEIGHT DIMENSION | |
| Installation Dimension [mm] | 520×500×1510 |
| Unit Weight [Kg] | 60 |
| | |

Packages



W (mm) D (mm)

H (mm)

CBM (m3) Weight (kg)

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