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.