

# Jacketed Glass Reactor for Evaporation

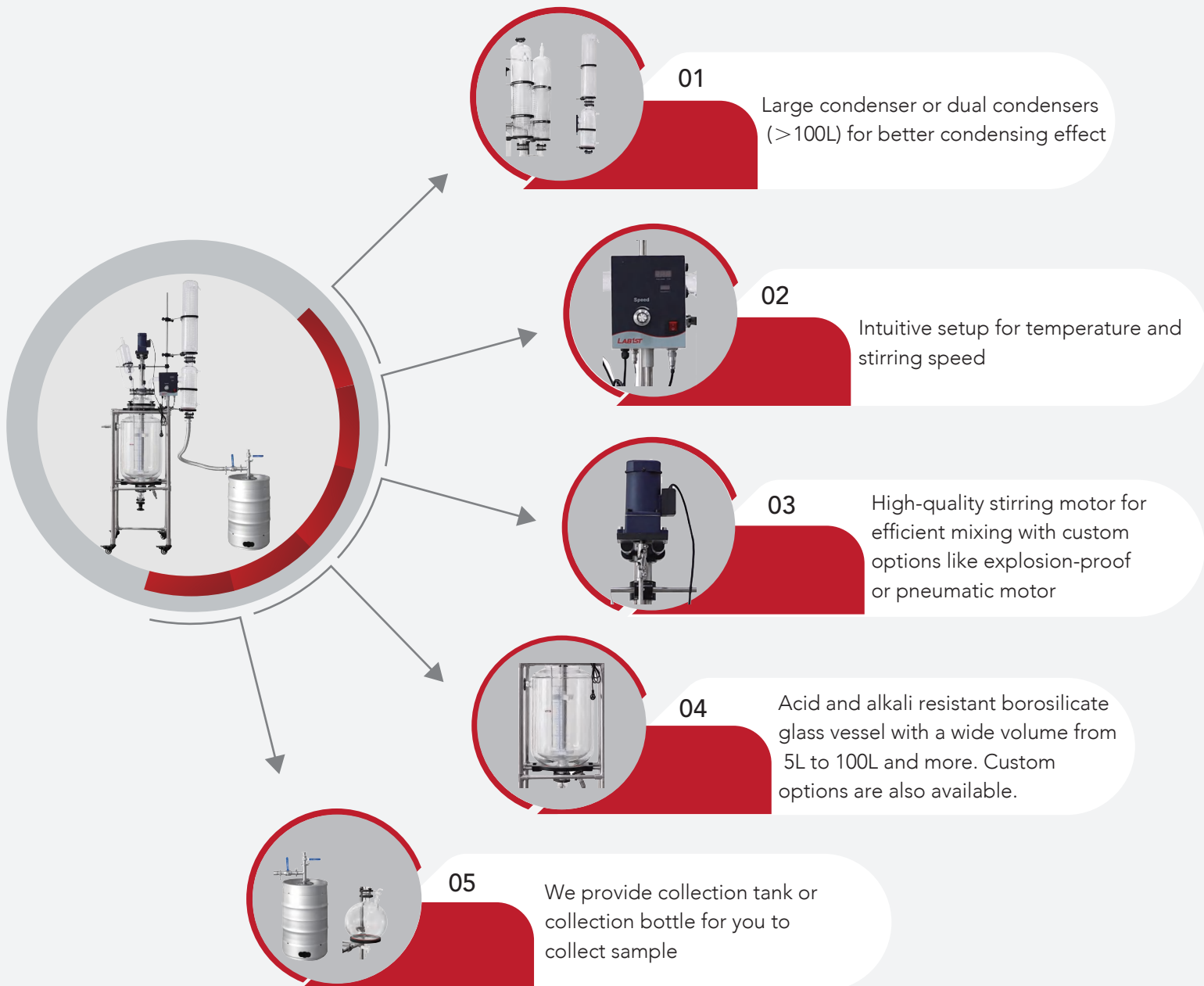
Laboratory and Processing Equipment

● **JGR-EVP Series**

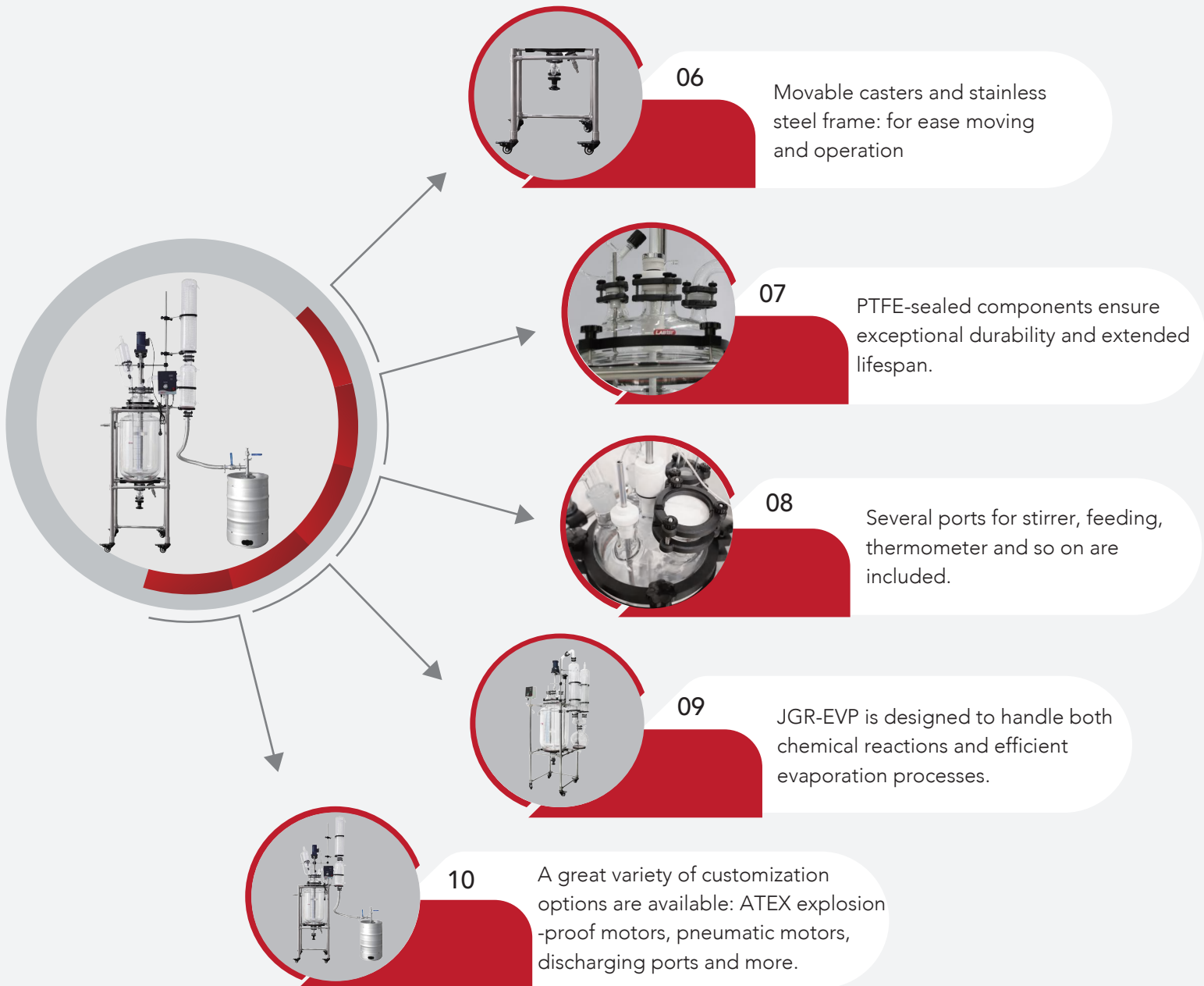


Labfirst Scientific Instruments (Shanghai) Co., Ltd.

# FEATURES



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# TECHNICAL DATA

Model	JGR-10L-EVP	JGR-20L-EVP	JGR-30L-EVP	JGR-50L-EVP	JGR-100L-EVP
<b>Technical Data</b>					
Temperature Range	-120°C—250°C				
Operating Pressure Range	-0.1Mpa—Atm				
Glass Material	Borosilicate Glass				
Vacuum Sealing	Mechanical Sealing				
Collection	Collection Bottle or Collection Tank				
<b>Power Requirement</b>					
Voltage [V]	110   220				
Phase [P]	1				
Frequency [HZ]	50/60				
Power [W]	120	120	120	120	200
<b>Glass Vessel</b>					
Volume	10L	20L	30L	50L	100L
Inner Vessel Pressure	-0.1Mpa—Atm				
Jacket Volume	3L	6L	10L	16L	30L
Jacket Pressure	≤0.05Mpa				
Interface Between Vessel and Discharge Valve	80mm Flat Flange				
Discharge Valve Port	32mm Barb				
Jacket Port	G 1/2" Male Thread	G 1/2" Male Thread	G 1/2" Male Thread	G 3/4" Male Thread	G 3/4" Male Thread
<b>Lid</b>					
Port 1 [[Thermometer]	DN25 Flat Flange				
Port 2 [Vacuum Gauge]	34mm Grinding Straight Joint				
Port 3 [Solid Inlet]	80mm Flat Flange				
Port 4 [Material Inlet]	OD50.5 Tri-clamp				
Port 5 [Reflux]	50mm Ball Mill Joint				
Port 6 [Stirrer Connection]	50mm Flat Flange	50mm Flat Flange	50mm Flat Flange	50mm Flat Flange	60mm Flat Flange
<b>Condenser</b>					
Condenser Diameter [mm]	100	100	160	160	160
Condenser Height [mm]	730	730	730	730	730×2
Condensation Area [m <sup>2</sup> ]	0.65	0.65	1.04	1.04	2.08
Condenser Vacuum Port	12mm Barb				
Condenser Liquid Inlet & Outlet Port	15mm Barb				
Liquid Drain Port	60mm Flat Flange				
<b>Stirring</b>					
Rotation Speed [rpm]	0~600				
Controller	Analog Inverter	Variable Frequency Drive	Variable Frequency Drive	Variable Frequency Drive	Variable Frequency Drive
Motor Power	120	120	120	120	200
Reduction Gearbox	N/A	1:3	1:3	1:3	1:3
Stirring Paddle Layer	Single Layer	Single Layer	Single Layer	Double Layer	Double Layer
Stirring Paddle Material	PTFE				
<b>Weight   Dimension</b>					
Dimension [mm]	700×650×2100	750×650×2250	750×650×2400	750×650×2450	850×730×2550
Weight [Kg]	90	110	115	120	180

# SUPPORT EQUIPMENT

## Vacuum Pump

### PTFE Diaphragm Vacuum Pump

Light-weight and low noise. The PTFE diaphragm design makes them suitable for even the most corrosive solvents. Available in different capacities: up to 120L/min air-taking speed and 50 mbar end vacuum.



## Heating Circulator

### UC Series

Advanced heating circulator with a hermetic design, for minimized oxidation of heating oil at high temperature. These circulators are available with 200C or 300C max. temperature. They come with air or water cooling, making them suitable for applications requiring a quick drop from high temperature to room temperature.



## Cooling Circulator

### DL Series

The most cost-effective cooling circulator, which comes with an open reservoir from 5L to 100L, making them suitable to be also used as a cooling bath. They come with a variety of models with reservoirs from 5L to 100L and lowest temperature from -20C to -120C.

