

Lab1st JGR-FK (glass type) jacketed filter reactors are designed as crystallization device with controlled temperature and pressure environment, for both laboratory and scale-up applications.

The system not only includes filter reactors who can make reaction and filtration in the same vessel to reduce the material losses, but also can recover the solvents with the help of condenser and collection tank in the vacuum environment. Each filter reactor consists of a filter plate, corrosion resistant jacketed reaction vessel, PTFE coated variable speed stirrer system, and other accessories like electric control cabinet.

The JGR-FK series reactors 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 vacuum jacket.

The standard JGR-FK reactors come with vessels from 5L to 200L. Some popular models are in stock at USA warehouse, ready to ship.



Glass Crystalization 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-100FK
TECHNICAL DATA	A state
Glass Vessel Temperature Range	-120°C ~ 250°C
Working Pressure Range	-0.1Mpa ~ Atm
Glass Material	High Borosilicate Glass
Vacuum Sealing	Machinery Seal
Filter Plate Material	Glass Sand Core
Filter Pore Size	40~80µm

ELECTRICAL DATA	
Voltage [V]	110 220
Phase [P]	1
Frequency [HZ]	50/60
Total Power [W]	200W
GLASS VESSEL	20011
Vessel Volume	100L
Vessel Pressure	-0.1Mpa ~ Atm
Jacket Volume	30L
Jacket Pressure	≤0.05Mpa
Drain Valve Port	12mm Barb
Jacket Interface	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]	60mm Flange
MOTHER LIQUID COLLECTION	
Volume	100L
Port 1 [Vacuum]	
Port 2 [Air Exhaust]	
Port 3 [Condenser]	60mm Flat Flange
Port 4 [Discharge]	
CONDENSER 1 [on the Reactor]	
Condenser Diameter [mm]	120
Condenser Height [mm]	650
Condenser Area [m^2]	0.75
Vacuum Port on the Condenser	12mm Barb
Condenser Liquid Inlet & Outlet Port	15mm Barb
REFLUX FLASK	
Reflux Drain Port	12mm Barb
CONDENSER 2 [Mother Liquid Collection]	
Condenser Diameter [mm]	1 - R
Condenser Height [mm]	A CONTRACT OF A
Condenser Area [m^2]	
Condenser Interface with Mother Liquid Collection Flask	60mm Flat Flange
Vacuum Port on the Condenser	50mm Flat Flange
iquid Inlet & Outlet Port on the Condenser	16mm Barb
AGITATOR	
Rotation Speed [rpm]	0~600
Rotation Controller	Electronic Speed Control
Motor Power	200W
Reduction Gearbox	1:3
Blade Layer	2 Layers
Blade Material	PTFE

1pc* [50mm Ball Mill Joint]
2pcs* [43mm Ball Mill Joint]
1pc* [25mm Flange]
1pc* [80mm Flange]
1pc* [80mm Flange]
1pc* [50mm Flange]
1pc* [50mm Flange]
1pc
1pc* [60mm Flange]
1pc* [50mm Flange]
1250×700×2550
200

Package Information:

Length (cm)	Width (cm)
Height (cm)	CBM (m3)
Weight (kg)	Total capacity

Product Serial No. 9131

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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.