

Lab1st JGR-F (glass type) is a kind of jacketed filter reactors that has filter plate on the bottom. It can be used for both laboratory and scale-up applications.

A glass sand filter disc is installed at the bottom of the vessel body, which can complete the reaction and filtration in it to reduce the loss of materials. At the same time, the solvent can be recovered by means of a condenser in a 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-F 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.



Glass Filter 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-20F
—— 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
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]	120W
——GLASS VESSEL——	
Vessel Volume	20L
Inner Vessel Pressure	-0.1Mpa ~ Atm
Jacket Volume	6L
Jacket Pressure	≤0.05Mpa
Drain Valve Port	12mm Barb
Jacket Interface	G 1/2" 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]	85
Condenser Height [mm]	650
Condenser Area [m^2]	0.25
Vacuum Port on the Condenser	12mm Barb
Condenser Liquid Inlet & Outlet Port	12mm Barb
——REFLUX FLASK——	
Reflux Drain Port	12mm Barb
——AGITATOR——	
Rotation Speed [rpm]	0~600
Rotation Controller	Electronic Speed Control
Motor Power	120W
Reduction Gearbox	1:3
Blade Layer	2 Layers
Blade Material	PTFE
——ACCESSORIES——	
Reflux Clamp	1pc* [50mm Ball Mill Joint]
Jacket Port Clamp	2pcs* [43mm Ball Mill Joint]
Thermometer Port Clamp	1pc* [25mm Flange]
Drain Valve Clamp	1pc* [80mm Flange]
Solid Inlet Clamp	1pc* [80mm Flange]
——WEIGHT DIMENSION——	
Installation Dimension [mm]	850×600×2150
Unit Weight [Kg]	100

Package Information:

Length (cm)	Width (cm)
Height (cm)	CBM (m3)
Weight (kg)	Total capacity
Product Serial No. 9057	2025-04-27 14:50:58

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Technical Data:

Model	JGR-50F
—— 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
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]	120W
——GLASS VESSEL——	
Vessel Volume	50L
Inner Vessel Pressure	-0.1Mpa ~ Atm
Jacket Volume	16L
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]	50mm Flange
——CONDENSER——	
Condenser Diameter [mm]	100
Condenser Height [mm]	730
Condenser Area [m^2]	0.65
Vacuum Port on the Condenser	12mm Barb
Condenser Liquid Inlet & Outlet Port	15mm Barb
——REFLUX FLASK——	
Reflux Drain Port	12mm Barb
——AGITATOR——	
Rotation Speed [rpm]	0~600
Rotation Controller	Electronic Speed Control
Motor Power	120W
Reduction Gearbox	1:3
Blade Layer	2 Layers
Blade Material	PTFE
——ACCESSORIES——	
Reflux Clamp	1pc* [50mm Ball Mill Joint]
Jacket Port Clamp	2pcs* [43mm Ball Mill Joint]
Thermometer Port Clamp	1pc* [25mm Flange]
Drain Valve Clamp	1pc* [80mm Flange]
Solid Inlet Clamp	1pc* [80mm Flange]
——WEIGHT DIMENSION——	
Installation Dimension [mm]	900×650×2450
Unit Weight [Kg]	120

Package Information:

Length (cm)	Width (cm)
Height (cm)	CBM (m3)
Weight (kg)	Total capacity
Product Serial No. 9057	
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Technical Data:

Model	JGR-100F
—— 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
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——	
Vessel Volume	100L
Inner 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
——CONDENSER——	
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
——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
——ACCESSORIES——	
Reflux Clamp	1pc* [50mm Ball Mill Joint]
Jacket Port Clamp	2pcs* [43mm Ball Mill Joint]
Thermometer Port Clamp	1pc* [25mm Flange]
Drain Valve Clamp	1pc* [80mm Flange]
Solid Inlet Clamp	1pc* [80mm Flange]
——WEIGHT DIMENSION——	
Installation Dimension [mm]	1050×700×2550
Unit Weight [Kg]	160

Package Information:

Length (cm)	Width (cm)
Height (cm)	CBM (m3)
Weight (kg)	Total capacity
Product Serial No. 9057	2025-04-27 14:52:36

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Technical Data:

Model	JGR-200F
—— 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
Filter Plate Material	Glass Sand Core
Filter Pore Size	40~80µm
—— ELECTRICAL DATA ——	
Voltage [V]	220
Phase [P]	1

Frequency [HZ]	50/60
Total Power [W]	750W
——GLASS VESSEL——	
Vessel Volume	200L
Inner Vessel Pressure	-0.1Mpa ~ Atm
Jacket Volume	60L
Jacket Pressure	≤0.05Mpa
Drain Valve Port	40mm 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]	120mm 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
——CONDENSER——	
Condenser Diameter [mm]	160
Condenser Height [mm]	910
Condenser Area [m^2]	1.2
Vacuum Port on the Condenser	12mm Barb
Condenser Liquid Inlet & Outlet Port	15mm Barb
——REFLUX FLASK——	
Reflux Drain Port	12mm Barb
——AGITATOR——	
Rotation Speed [rpm]	0~600
Rotation Controller	Electronic Speed Control
Motor Power	750W
Reduction Gearbox	1:3
Blade Layer	3 Layers
Blade Material	PTFE
——ACCESSORIES——	
Reflux Clamp	1pc* [50mm Ball Mill Joint]
Jacket Port Clamp	2pcs* [43mm Ball Mill Joint]
Thermometer Port Clamp	1pc* [25mm Flange]
Drain Valve Clamp	N/A
Solid Inlet Clamp	1pc* [120mm Flange]
——WEIGHT DIMENSION——	
Installation Dimension [mm]	1240×1140×3100
Unit Weight [Kg]	190

Package Information:

Length (cm)	Width (cm)
Height (cm)	CBM (m3)
Weight (kg)	Total capacity
Product Serial No. 9057	2025-04-27 14:39:12

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