

# Crystallization Reactor

## Characteristic:

The GR series jacketed glass reactor is a multi-functional reactor. It has a stirring paddle, the interlayer can be heated/cooled by cold and heat sources (such as coolant, water or silicone oil). At the set temperature, under normal pressure or negative pressure stirring, reaction, and can control the evaporation and reflux of the reaction liquid.

- The whole set of glass components are made of GG17 high borosilicate glass material.
- It can be used in the temperature range from -120°C to 200°C.
- The interlayer of the reactor passes through the hot oil and circulates, which can be used for heating reaction, and the refrigerant can be used for low temperature reaction.
- It can work under normal and negative pressure conditions, and the maximum vacuum degree can reach 0.095MPa.
- Stirring paddle can be optional propeller type, propulsion type or anchor type.
- Glass accessories support custom, such as PH drops, etc.
- The cooling or heating solution of the interlayer can be completely removed after the reaction.
- For IIB explosive environment, electrical equipment adopts EXdIIBT4 grade flameproof products to meet the requirements of safe use.



CE



# Technical Parameters

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Model	GR-10L	GR-20L	GR-30L	GR-50L	GR-80L	GR-100L	GR-150L
Temp. range (°C)	-120°C~300°C						
Power supply	220V/110V, 50/60Hz						
Effective volume in reactor (L)	10	20	30	50	80	100	150
Jacket volume (L)	3	6	10	16	24	30	35
Condenser heat exchange area (m <sup>2</sup> )	N/A						
Feeding bottle volume (L)	0.5-2L Optional						
Recovered bottle volume (L)	5-50L Optional						
Stirring insertion hole	50#Flange						
Thermometer socket	40#Flange						
Condenser return port	50#Standard Ball						
Spare port	34#Standard ground						
Constant pressure funnel connection	40#Standard ground						
Solid feed port	80#Flange						
Glass assembly	High borosilicate glass 3.3						
Body frame	SUS304						
Stirring paddle	Paddle type impeller, stainless steel inside, PTFE outside, titanium						
Motor	For viscous materials, high power motors are available						
Temp. difference limit (°C)	≤60						
Tank pressure (MPa)	-0.1~0.1						
Jacket withstand pressure (MPa)	≤0.1						
Vacuum system boost rate	≤2kPa/h						
Stirring motor power (W)	120W/180W-EX				200W/370W-EX		
Range of rotation(rpm)	Frequency/0~600						
Temp. sensor Type	Pt100						
Insulation pipe interface	4 points external thread			6 points external thread			
Seal material	PTFE						
Discharge valve height (mm)	202~450 / customizable						