

Double-walled glass reactor

The double-walled glass reactor features a double-layered glass design. The inner layer contains the reaction solvent for stirring, while the outer layer can be circulated with different heat sources (refrigeration, hot water, or hot oil) for heating or cooling. Under set constant temperature conditions, stirring reactions can be carried out in the sealed glass reactor at atmospheric or negative pressure, depending on the application requirements. It also allows for reflux and distillation of the reaction solution, making it an ideal pilot-scale and production equipment for modern fine chemical plants, biopharmaceuticals, and the synthesis of new materials.



30L double-walled glass reactor

Product Features:

1. Variable frequency speed control, AC induction motor. Constant speed, brushless and spark-free, safe and stable, capable of continuous operation.
2. All glassware is made of GG17 high borosilicate glass, possessing excellent chemical and physical properties.
3. The glass interlayer interface allows for heated reactions via hot oil circulation, and low-temperature reactions via coolant.
4. Reactions can be performed at room temperature; tap water quickly removes the heat of the reaction.
5. The discharge port has a flange and a PTFE valve, eliminating dead corners inside the container, and is detachable for easy discharge of solid materials.

6. Six-port reactor cover with extra-large opening for easy cleaning; standard port can be used to assemble reflux and distillation synthesis devices.

产品参数表		
技术规格	Model Number	SF212-30L
	External Dimensions (mm)	530*530*2270
	Outer Packaging Dimensions (mm)	1300*600*700
	Vessel Volume (L)	30
	Jacket Volume (L)	≈8
	Voltage/Frequency (V/Hz)	220/50
	Glass Temperature Resistance (°C)	-120~300
	Display Temperature Range (°C)	-50~200
	Available Vacuum (MPA)	-0.098
	Stirring Speed (rpm)	0-460
	Power (W)	120 (1:3)
	Stirring Shaft Diameter (mm)	12/14 Variable Frequency
	Speed Control Method	PTFE
功能配置	Sealing Type	Six-port (optional)
	Number of Lid Openings	GG-17 High Borosilicate Glass
	Glass Material	φ35
	Temperature Measuring Hole	#40
	Drop Inlet	φ60
	Stirring Hole	φ50 Ball Mouth
	Reflux Hole	SF212-30L

Vent/Liquid Inlet	#34
Feeding Port	φ 80
Condensation Port	#40
Drip Addition	1000ml constant pressure funnel
Temperature Measurement	Display thermometer
Ventilation/Feeding	#34 Glass Valve
Reflux	500ml reflux bend
Feeding Port	polytetrafluoroethylene
Discharge	Top-mounted glass valve
Agitation	Four-blade mixing blade
Condenser	Vertical serpentine condenser coil
Optional Items (Additional Charge)	Explosion-proof/Patrolley/Teflon coating/Variable frequency
Other	Custom modifications are available upon request.

Detailed images



