

Zhengzhou Cialan Instrument Equipment Co.,Ltd

Add:NO.9-1,Zhengzhou Area(Jinshui),Henan Pilot Free Trade Zone.

Web:www.cialan.com, Email:karron@cialan.com, Tel:+86-15890167152

10L single layer glass reactor

Working principle

1.This equipment is composed of electric constant speed stirring system, condensation, dropping system and heating bath. While stirring the materials, the bath heats the materials in the kettle. The evaporation efficiency can be increased under vacuum conditions (a vacuum device need to be connected). The solvent vapor is cooled into liquid when passing through the glass condensing coil (a cooling device need to be connected), which can be refluxed into the kettle. It can also be recycled through the lower valve of the dean-stark. When the reaction is completed, the material can be discharged from the side outlet at the bottom of the kettle.

2.This series of products need to be equipped with a vacuum device, a cooling circulating device, etc. to form a system devices.



Features

- 1.The parts in contact with the material are all made of high borosilicate glass (expansion coefficient 3.3) and PTFE materials, which have stable performance and are not easy to react with the materials.
- 2.The main stent is made of cold plate anti-corrosive spray + aluminum alloy. And the bath is made of stainless steel.
- 3.Glass + PTFE material discharging valve, side material discharge without effusion.
- 4.Low-speed power-increasing motor, electronic stepless speed regulation, fine adjustment by knobs, speed adjustment box with dual display function digitally displaying speed and material temperature in the kettle.
- 5.Constant temperature bath with temperature digital display, switch controlling by knob with lock, K-type sensor at bottom of bath + stainless steel probe.
- 6.The stirring system uses ceramic bearings and mechanical seal to prevent the stirring rod from wearing out.
- 7.Using PT100 temperature sensor, 304 stainless steel material, wrapped in transparent PTFE tube , double anti-corrosion.
- 8.Vacuum pressure gauge shows real-time vacuum indicated by pointer.

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9.Crescent-type stirring paddle, 304 stainless steel + PTFE stirring blade. The material of the stirring rod is 304 stainless steel, and it is wrapped in PTFE tube outside.

10.There is a discharging valve at the bottom of the bath to facilitate liquid discharge.

11.There is a universal wheel with brake at the bottom of the equipment, which can be moved as a whole and be operated easily.

12.Stirring, heating two fuses safety protection

Technical parameters

Model	CGS-10L	
Reactor volume	10L spherical shape	
Voltage/Frequency	220V 50HZ/110V 60Hz	
Stirring motor power	90W,1/3	
Heating power	3KW	
Stirring speed	0-450rpm/min	
Temperature control range of reactor	-80℃~ +250℃	
Bath temperature range	Room temperature to +180℃	
Temperature measuring accuracy	±1℃	
Vacuum	0.098Mpa	
Kettle body Φ280mm 7 ports	Stirring port	Φ80mm flange port
	Condensation reflux port	50# ball mill port
	Constant pressure funnel port	34# standard port
	Pressure relief port	34# standard port
	Temperature measuring port	Φ45 flange port
	Solid feeding port	Φ125mm flange port supporting PTFE cap
	Bottom discharging port	Φ80mm flange port
Stirring paddle	Φ17×600H(mm) blade 150mm	
Condenser dimension	Φ100*600H(mm) lower Φ60 flange port	

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Condensing area	0.4m ²
Dean-stark	Upper Φ 60 flange port; left 50# ball mill stopper
Volume of constant pressure funnel	1L, upper 29# standard port with glass stopper; lower 34#standard stopper
Pressure relief valve	34# standard plug valve; air outlet(pagoda joint)with 12mm outer diameter
Material discharging valve	Φ 80 flange port; Φ 33mm material discharging hole; oblique discharging port(pagoda joint) Φ 34mm; 350mm from the ground
Vacuum nozzle	Pagoda joint with 12mm outer diameter
In and out circulating nozzle of condenser coil	Pagoda joint with 15mm outer diameter
Bath dimension	Φ 350 \times 220H(mm)
Overall dimension(W*D*H)	710 \times 440 \times 1900mm
Net weight	42KG
Packing dimension	1170 \times 590 \times 840mm wooden package 0.58m ³
Packing weight	81KG