REACTORS





REACTORS

Condenser

PTFE

seal

IN

Discharge flange

Mobile stainless

frame SUS304

Multi-

400

Constant pressure funnel

Thermow

Cover

Ø180

OUT

Ø180

Ø230

PTFE stirrer



REAC-Series, Reactors

Glass reactors or mixing vessels are frequently used for stirring, dissolving, mixing, extraction and other processes in labs and pilot plants. Jacketed models permit heat exchange for better dissolving and crystallization. Mobile mixing vessels can be transported with their content for further processing. They can also be equipped with condensers for vacuum distillation.

Features:

- Borosilicate glass 3.3 Compact stainless steel
- mobile frame PTFE seal,Φ8mm PTFE stirrer (stainless steel core, the outer PTFE)
- PTFE active discharge valve, electronic temp.
- measurement Constant speed stir controller.

Detailed configuration:

- Glass jacket 1 piece Chrging piston
- Cover 1 piece
- PTFE seal 1 set
- PTFE stirrer 1 set Body tray (aluminium)
- alloý) 1 piece Clamp (aluminium)
- alloy) 1 piece Manipulator (stainless function controller steel) - 2 pieces for 1-10L, 3 pieces for
- 20-100L Gear motor
- (panasonic) 1 set Multi-function
- controller 1 set
- Mobile stainless frame SUS 304 - 1 set
- Condenser 1 piece
- Dropping bottle 1 piece
- Thermowell 1 piece
- Solid feed inlet 1 piece (for up to 10L)
 Charging piston 1 piece
- Frequency converter 1 set
- PTFE discharging valve 1 piece.

Model	REAC-1L	REAC-2L	REAC-3L	REAC-5L	REAC-50L
Capacity (L)	1	2	3	5	50
ports		4		5	
Flange cover diameter	150mm			180mm	
Cylinder diameter	113/135/150mm			180mm	365mm
The outer cylinder dia.	150/180/200mm			230mm	410mm
The height of the reactor	250/280/300mm			400mm	850mm
Middle flange port	40#			50#	
Gear motor power(W)	60		90	180	
pressure(Mpa)	-0.096				
Agitator speed(rpm)	0–600				
Condenser	24#		29#	40#	
Constant pressure funnel	250ml/24#		500ml/29#	3000ml/34#	
Charging piston	29#				
Solid feed inlet	-				
Electronic temp. measurement port	DN15				
Discharge flange port	38#		50#		
PTFE		Ø8		Ø10	Ø18
Gear motor		60W		90W	180W
Power (V/Hz)	220/50 or 60				

REACTORS **Double-Three Layers**





Reagents are set in the inner layer of double-layer glass reaction kettle, at the same time, vacuum can be taken out and mixing speed be adjusted. Interlayer can lead in refrigerating fluid, water and high temperature liquid to heat and cool the materials.

It can be used in the experiment, middle-scale test, and production of chemistry, fine chemical engineering, biological pharmacy and synthesis of new materials. The products can be made into system devices with multi-purpose circulating water vacuum pump, diaphragm vacuum pump, low temperature circulating pump (vacuum), circulating cooler, constant temperature circulator, low temperature cooling liquid circulating pump and closed cooling and heating circulating equipment.

Features:

• High borosilicate glass has good physical and chemical properties.

 Can be used in wide temperature range from high temperature (300°C) to low temperature (-80°C). can work in constant

pressure & vacuum, vacuum degree is below 0.095MPa in stationary stationary.

 Digital display of mixing speed, , frequency conversion, and constant speed mixing system, work steadily.

• The sealing method and materials between mixer shah, PTFE mixing propeller (paddle) and ketttle cover are Know how of our company.

 Corrosion resistant discharge valve is without dead space design.

 The cooling or heating solution in the interlayer can be completely removed after reaction.

 The whole structure is novelty, practical & beautiful.





Glass discharge valve

REAC-N

3 Layers

Model	REAC-N5L	REAC-N10L	REAC-N20L		
Power (W)	90				
Stirring Speed (rpm)	50 ~ 500				
Max. Torque (N m)	0.6				
Material Capacity (L)	5	10	20		
Interlining Cover Capacity(L)	1.5	3	6		
Power Supply (V/Hz)	220/50				



Ma	odel	REAC-N10LE	REAC-N20LE	REAC-N30LE	REAC-N50LE	
Effective vol. inside glass reactor (L)		10	20	30	50	
Volume of jacket capacity (L)		3	6	8	16	
Heat transfer area of condenser (m ²)		0.2		0.3		
Material of	glass reactor	High borosilicate glass 3.3				
Temperature ra	nge of kettle (°C)	-80 ~ 200°C				
Bearable tempera	iture difference (°C)	90				
Operating p	ressure (MPa)	Vacuum or normal pressure				
	Power (W)	90 /Explosi	ion–proof 180		140/Explo- sion-proof 180	
Motor Adjusting mode		Variable frequency speed control				
	Stirring speed (rpm)	50 ~ 500				
Six opening of glass reactor cover		Mixing open mouth				
		Opening of temperature sensor				
		Connecting opening of condenser				
		Liquid-adding opening				
		Constant pressure funnel connecting opening				
		Solid-adding opening				
Liquid-circulating in	id-circulating inlet and outlet of kettle DN15					
Power su	pply (V/Hz)	220/50				
Dischar	ge Valve	• Valve The height of the discharge valve from ground (mm): >300mm			m): >300mm	
Material of ten	nperature sensor	Stainless steel covered with fluorine outside, double anti-corrosion				
Stin	rring	Rotary vane agitator, stainless steel axis covered with PTFE outside				
Dimension (mm) (LxWxH)		1100×720×1990	1100×720×2030		1100×720×2455	
Discharge height (mm)		580	540		580	