



# SHENSHENG

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## Separator / Extractor - Single Layer Glass Reactor (10L – 100L)



Shanghai Shensheng Biotech Co., Ltd.  
Add: 937 Chenxiang, Road, Shanghai, China  
Tel: +86 21 - 62716917  
Fax: +86 21 - 62716705  
E-mail: [info@shsstech.com](mailto:info@shsstech.com)

# Separator (10L - 100L)



## Overview

Designed for mixing two or more kinds of solvents to perform efficient chemical or physical reaction under vacuum condition and room temperature. After reaction, reactants can be separated according to different weights.

- Capacity: 10L – 100L;
- Mechanical sealing, resist to chemicals and durable, max vacuum <2 mbar;
- Gear motor with VFD controller, large torque, constant stirring speed;
- Stirring speed range: 20 - 600 rpm;
- Quality borosilicate glass 3.3 (BORO3.3);
- Taper vessel bottom for efficient separation;
- PTFE drain valve, no dead space and no leakage, clean discharge;
- SS304 stirring shaft covered with PTFE.



## Model

Capacity (L)

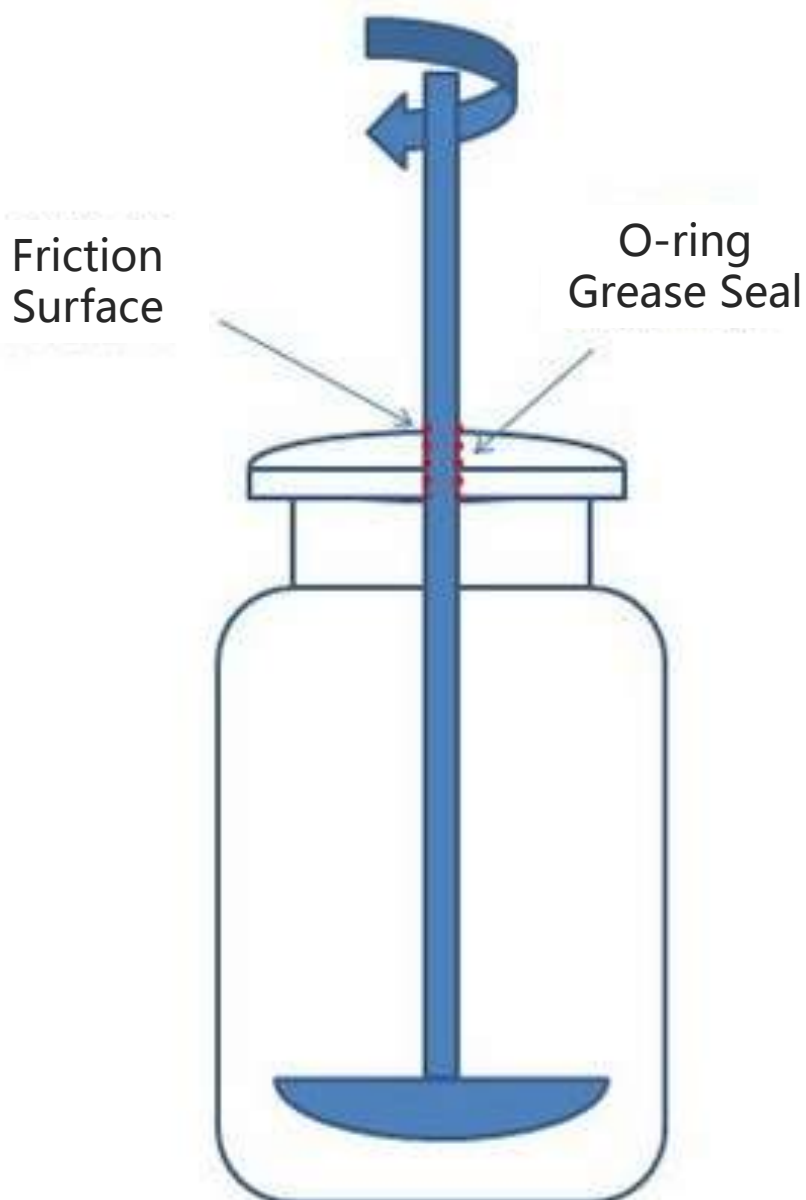
SR - S 10

# Features



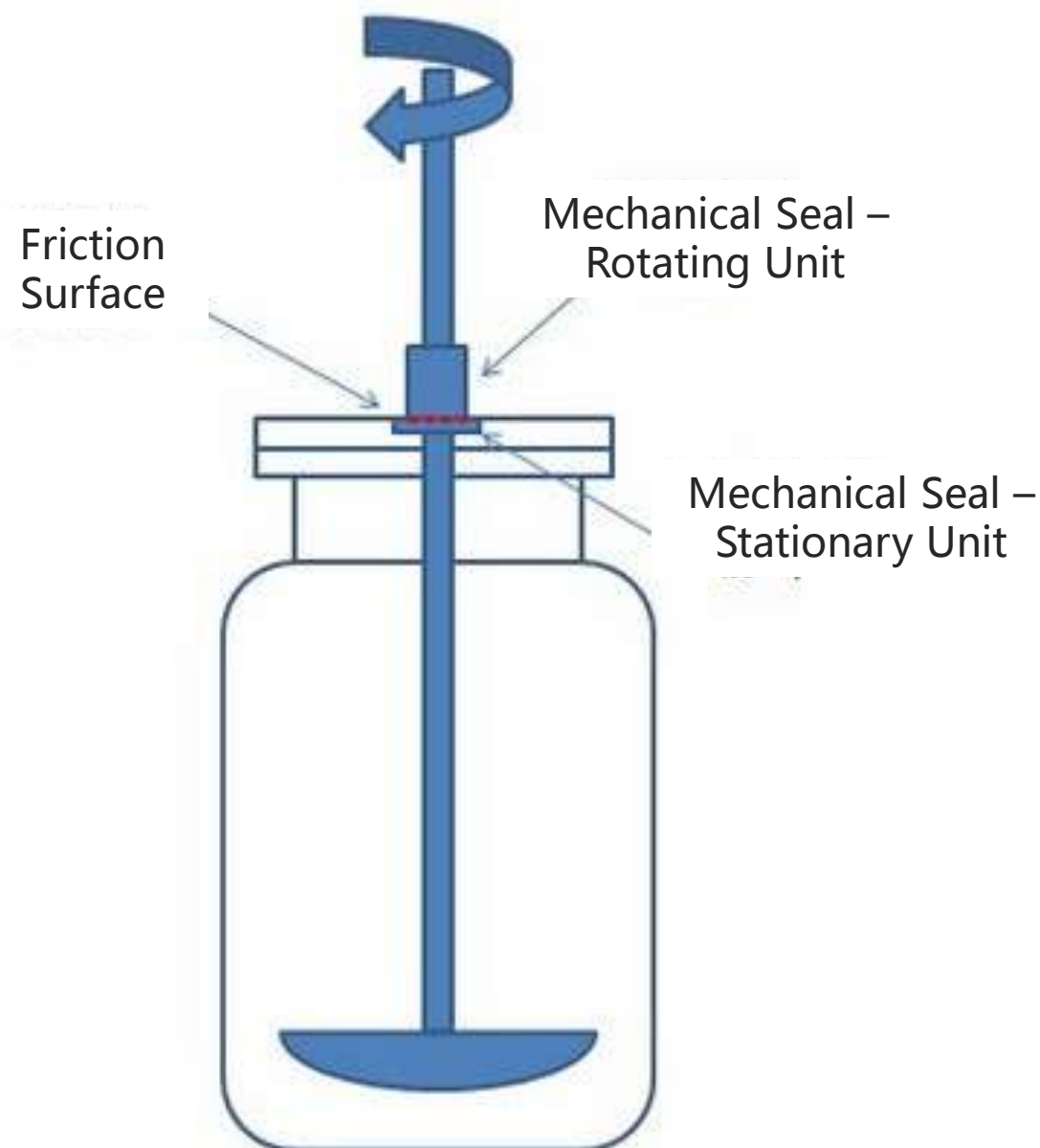
- A** Gear motor with large torque is safe and durable, offers constant speed stirring. Torque changes with the viscosity of material to ensure desired stirring speed (EX proof is optional, EX Rate: ExdIIBT4 );
- B** VFD controller (Variable Frequency Drive) offers **precise control** of stirring speed with LED display. Stirring speed range 20 – 600 rpm (EX proof is optional, EX Rate: ExdIIBT4 );
- C** Mechanical sealing ensures **max vacuum level of <2mbar**, durable and excellent resistance to chemicals. Much better than most O-ring sealing;
- D** SS304 stirring shaft covered with PTFE/Teflon ensures strong stirring and resistant to chemicals;
- E** PTFE drain valve, no vacuum grease, clean discharge.
- F** Dual Branching Piece at bottom discharge for better observation on separation result.

# Mechanical Seal VS Traditional Seal



## Traditional Seal – Seal on Axis

O-ring or Grease Seal is known as seal on axis to be used between stirring shaft and vessel lid, but is heavily prone to be worn out by friction, especially under corrosion of solvent and high temperature, which requires regular operation stop, disassemble and O-ring change.



## Mechanical Seal - Seal on Surface

Mechanical Seal is the seal on surface between its rotating part and stationary part. It is made of SiC and reinforced PTFE, which is vacuum tight, durable, long lasting and great for 24/7 operation.


With PTFE vessel lid, stirring can be very stable so that mechanical seal can ensure <2mbar vacuum level.

# Technical Specification & Configuration

## Parameters

Model	SR - S10	SR - S20	SR - S50	SR - S100
Capacity(L)	10L	20L	50L	100L
Lid Diameter (mm)	180 mm		265 mm	
Bottom Valve Diameter (mm)	10mm			
Nozzle Size & No. on Lid	3 (NS29×2+F60)		3 (NS34×2+F60)	
Stirring Power (W)	120 W - Gear Down		180 W - Gear Down	
Rotation Speed (rpm)	20 – 600 - VFD Speed Controller			
Diameter of Stirrer Shaft (mm)	20mm		25mm	
Max Vacuum Level (mbar)	< 2 mbar (-0.0998MPa)			
Glass Material	Borosilicate G3.3 (BORO3.3)			
Frame Material	SUS304			
Stirring Shaft Material	SUS304 & PTFE Coated			
Agitator Material	PTFE			
Dimension (cm)	40×40×150H	45×45×160H	50×50×180H	65×65×210H
Power Supply	220V/50Hz			

## Configurations

Model	SR - S10	SR - S20	SR - S50	SR - S100
Digital Display of Speed	●	●	●	●
SiC+PTFE Mechanical Seal	●	●	●	●
PTFE Drain Valve	●	●	●	●
Vacuum Meter	●	●	●	●
Dual Agitator	○	○	●	●
Agitator Type	Propeller		Propeller + Turbine	
Glass Baffles	○	○	○	○
PTFE Coated Frame	○	○	○	○
Over-current Protection	●	●	●	●
No-spark Electronic Control	●	●	●	●
EX Proof - ExdIIBT4Gb 	○	○	○	○

Symbol Instruction: / - None , ● - Equipped , ○ - Optional



# Water Circulation Vacuum Pump



- Safe and reliable water circulation vacuum pump.
- Equipped with five independent suction nozzles for vacuum supply.
- Easy operation and maintenance.
- Can be water supply for condenser.
- Oil free and water saving.

Parameters

Model	SHZ – 95B
Type	Water Circulation
Max Vacuum Level (mbar)	20 mbar
Extraction Rate (L/min)	10L/min×5
Power (W)	550 W
Dimensions (cm)	45×35×82
Power Supply	220V/50Hz

# Factory Show - Shanghai Shensheng Biotech Co., Ltd.



Manufacture Plant in Shanghai



Quality Mechanical Parts



Glassware Fabrication





Fine Processing



Individual quality control for every unit



Pilot Scale Jacketed Glass Reactor



Pilot Scale Rotary Evaporator



# Our Customer



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