

Single layer glass reactor



1. Vertical type incline stir reaction
 - Incomparably perfect stereo-stir performance.
2. Adiabatic stand with intelligent heating system inbuilt, two kinds heating method: Oil bath & Heating mantle.
 - Max temperature up to 180°C, and digital display.
 - Oil bath can equip cooling coil for reaction material chilling.
 - Equips Over-heat & Dry-heat protectors, ensure safe operation of heating bath.
3. Heating device material: SS304 stainless steel and spray material are optional.



4. Cooling & Liquid separation function.
5. Distilling & receiving.
6. Sample pickup.
7. Underlay base optional to enable one-time discharge.
8. Drip function.
9. Multi-function reaction flask.
 - Overall flange connection design, eliminate taper joint seizure which may damage reaction flask.
 - Standard configuration: stirring, feeding, reflux condensing, temperature measuring, multi-purpose wide opening and non-liquid accumulation bottom discharge function.
 - Extend more function: dripping, bubbling, sample pickup, distilling, rectifying, liquid separation, etc.

Rotary Evaporator

Scraped Film Evaporator /
Short Path (Molecular)
Distillation System

Chemical Glass
Reactor

High Shear Homogen-
eous Emulsification
Reactor

Pilot Ultrasonic
Emulsification Reactor

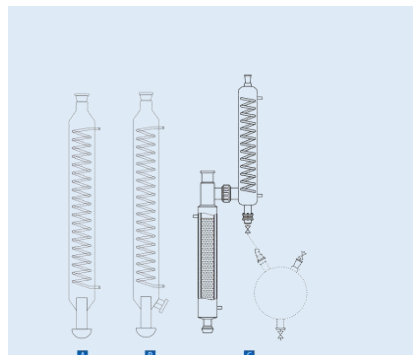
Vacuum Filter / Glass
Liquid Separator

Photochemical
Glass Reactor

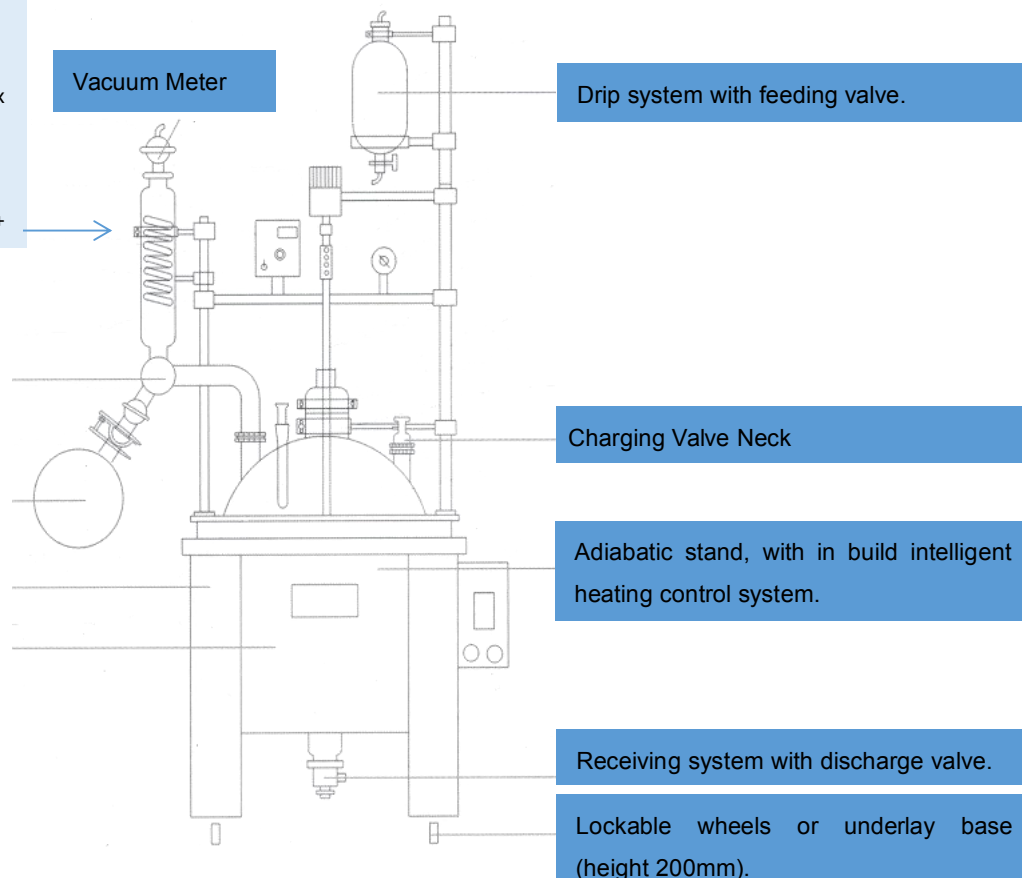
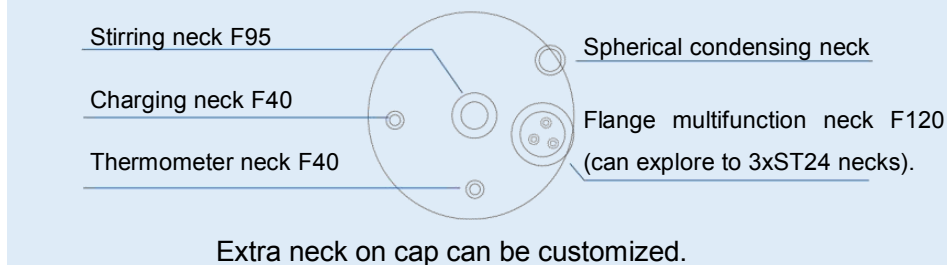
Hydrothermal
Synthesis Reactor

High Pressure
Reactor

Functional configuration diagram



- A. S51 ball joint equipped with reflux condenser.
- B. Distillation condenser.
- C. Rectification column + condensing +



Distilling / reflux valve
2-port liquid separator
3-port liquid separator (advanced).

Removable sampling bottle set.

Copper cooling coil. Cooling surface 0.6 m².

Stainless steel bath pot with drain valve.



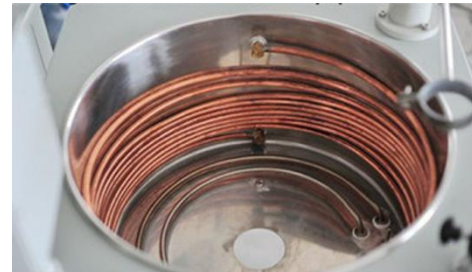
Heating mantle

Max heating temperature up to 300°C, heating quickly.
180-300°, can be customized



2-port liquid separator facility (optional)

Is able to separate liquid received of different weight. Advanced 3-port liquid separator system also available.



Cooling coil (optional)

Can be installed in heating bath and perform chilling function by getting through cooling liquid.

Single layer glass reactor

Reactor with heating mantle - stainless steel material & spray plastics material:



Reactor with oil bath - stainless steel material & spray plastics material:



1. Capacity: 0.5L, 1L, 2L, 3L, 5L, 10L, 10L, 20L, 30L, 50L, 100L, 150L, 200L, 250L.
2. Oil bath type & electric heating mantle type, stainless steel & spray plastics are optional.
3. High temperature: RT-180°C(oil bath), RT-180°C(heating mantle). RT-300°C(heating mantle) can be customized.
4. Vacuum pump & vacuum controller are available, you can control the vacuum degree accurately.



0.5L ~ 200L Single layer glass reactor

S: SS304L; **P:** spray plastics; **B:** oil bath; **M:** Heating Mantle; **EX:** Ex-proof

Model	TST-2MS	TST-5MS	TST-10MS	TST-20MS	TST-30MS	TST-50MS	TST-80MS	TST-100MS	TST-150MS	TST-200MS	TST-250MS
	TST-2MP	TST-5MP	TST-10MP	TST-20MP	TST-30MP	TST-50MP	TST-80MP	TST-100MP	TST-150MP	TST-200MP	TST-250MP
	TST-2BS	TST-5BS	TST-10BS	TST-20BS	TST-30BS	TST-50BS	TST-80BS	TST-100BS	TST-150BS	TST-200BS	TST-250BS
	TST-2BP	TST-5BP	TST-10BP	TST-20BP	TST-30BP	TST-50BP	TST-80BP	TST-100BP	TST-150BP	TST-200BP	TST-250BP
Reaction flask(L)	2	5	10	20	30	50	80	100	150	200	250
The mouth number of the bottle	4	4	5	5	5	6	6	6	7	7	7
Stirring power(W)	90	120	180	180	250	250	250	250	370	450	550
Speed(rpm)	0-1300	0-1300	0-720	0-720	0-720	0-720	0-720	0-720	0-720	0-720	0-720
OD of Stirring bar(mm)	φ6	φ10	φ10	φ10	φ12	φ12	φ16	φ16	φ18	φ18	φ18
Heater	1.5kw 180℃	2kw 180℃	2.5kw 180℃	3kw 180℃	4.5kw 180℃	6kw 180℃	7kw 180℃	9kw 180℃	10kw 180℃	11kw 180℃	15kw 180℃
Power(V)	220	220	220	220	220	220 / 380	220 / 380	220 / 380	220 / 380	220 / 380	220 / 380
Material	Stainless Steel / Spraying Plastics										
Heating Method	Oil Bath / Heating Mantle										
Frequency-converting	no	have	have	have	have	have	have	have	have	have	have
Vacuum sealing	have										
Discharge valve	have										
PTEE stirring bar	have										
Charging cork	have										
Tube for testing temp.	have										
Reflux and distillation system	optional	optional	have								
Vacuum meter	no	optional	have								
stereoscopic stirring	have										
Automatic stir in CW or CCW	no	no	no	optional		have					
Mouth for multi-functions	no	no	no	have							
Low mouth for taking material out	no	no	have								
Discharging cork	no	no	have								
Cap of heating bath	optional										
Corke for anti-block	no	no	no	no	have						
Increase power under lower speed	no	optional									
Cooling coils	optional										