

Single layer glass reactor

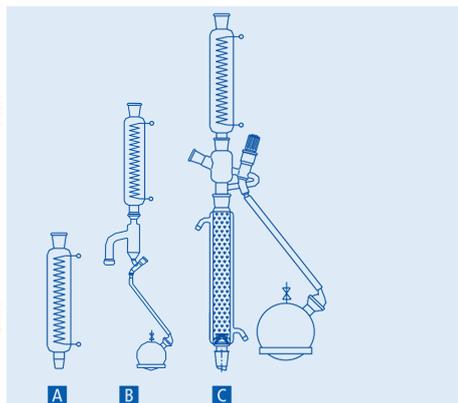


1. Vertical type incline stir reaction
 - Incomparably perfect stereo-stir performance.
2. Adiabatic stand with intelligent heating system inbuilt, two kinds heating method: Oil bath & Heating mantle.
 - Max temperature up to 180°C, and digital display.
 - Oil bath can equip cooling coil for reaction 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. Discharge valve.
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, sample pickup, distilling, rectifying, liquid separation, etc.

Functional configuration diagram



- A: S51 ball joint equipped with reflux condenser.
 B: Distillation & reflux condenser (Optional)
 C: Rectification column + condensing + collecting (Optional)

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

Removable sampling bottle set.

Copper cooling coil. Cooling surface 0.6 m². (Optional)

Stainless steel bath pot with drain valve.

Stirring neck F95

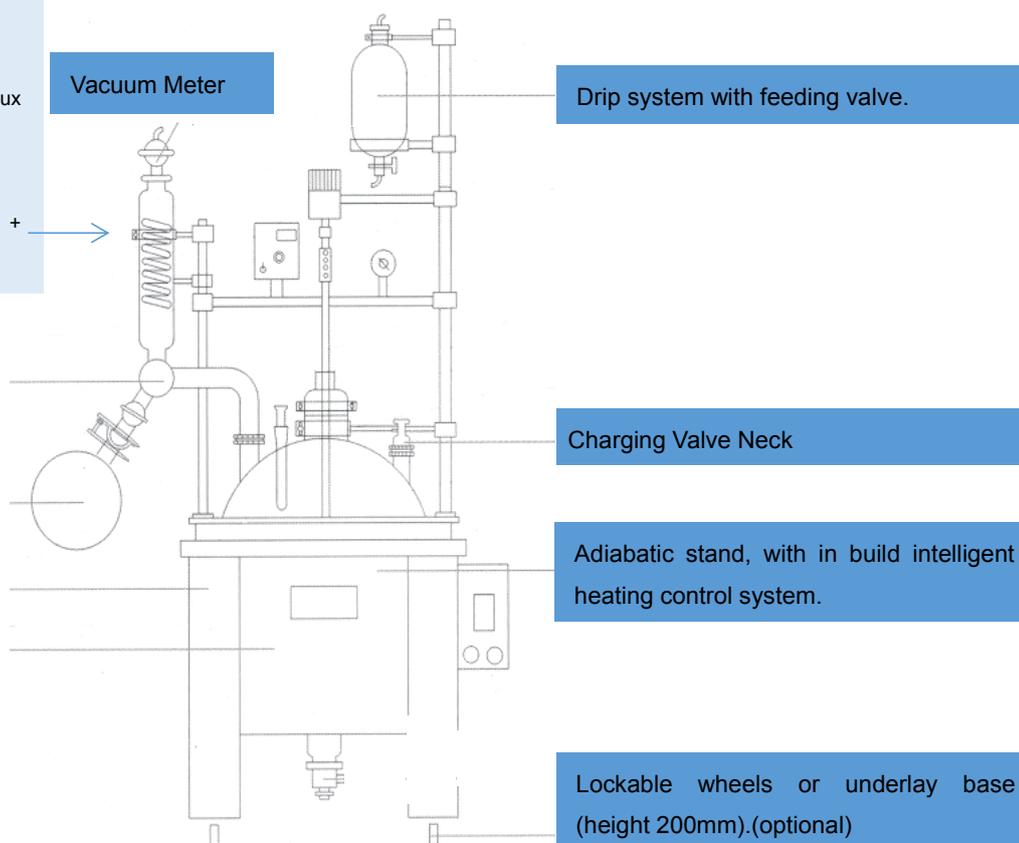
Charging neck F40

Thermometer neck F40

Spherical condensing neck

Flange multifunction neck F120

Extra neck on cap can be customized.

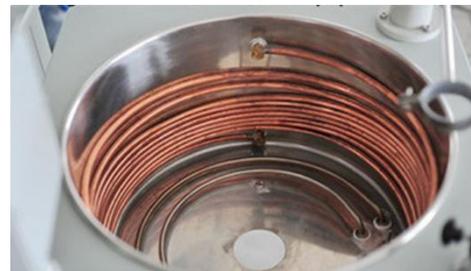


Drip system with feeding valve.

Charging Valve Neck

Adiabatic stand, with in build intelligent heating control system.

Lockable wheels or underlay base (height 200mm). (optional)



Heating mantle

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

3-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

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

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 | 0-600 | 0-600 | 0-600 | 0-600 | 0-600 | 0-600 | 0-600 | 0-600 | 0-600 |
| 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 of heater | 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 | optional | | have | | | | | | | | |
| PTEE stirring bar | have | | | | | | | | | | |
| Charging cork | have | | | | | | | | | | |
| Device for test temp | have | | | | | | | | | | |
| Reflux and distillation system | optional | optional | have | | | | | | | | |
| Vacuum meter | optional | | have | | | | | | | | |
| Overhead stirring | have | | | | | | | | | | |
| Automatic stir in CW or CCW | optional | | | | | | | | | | |
| Mouth for multi-functions | no | no | no | have | | | | | | | |
| Cooling coils | optional | | | | | | | | | | |
| Bath liquid stir | no | | optional | | | | | | | | |