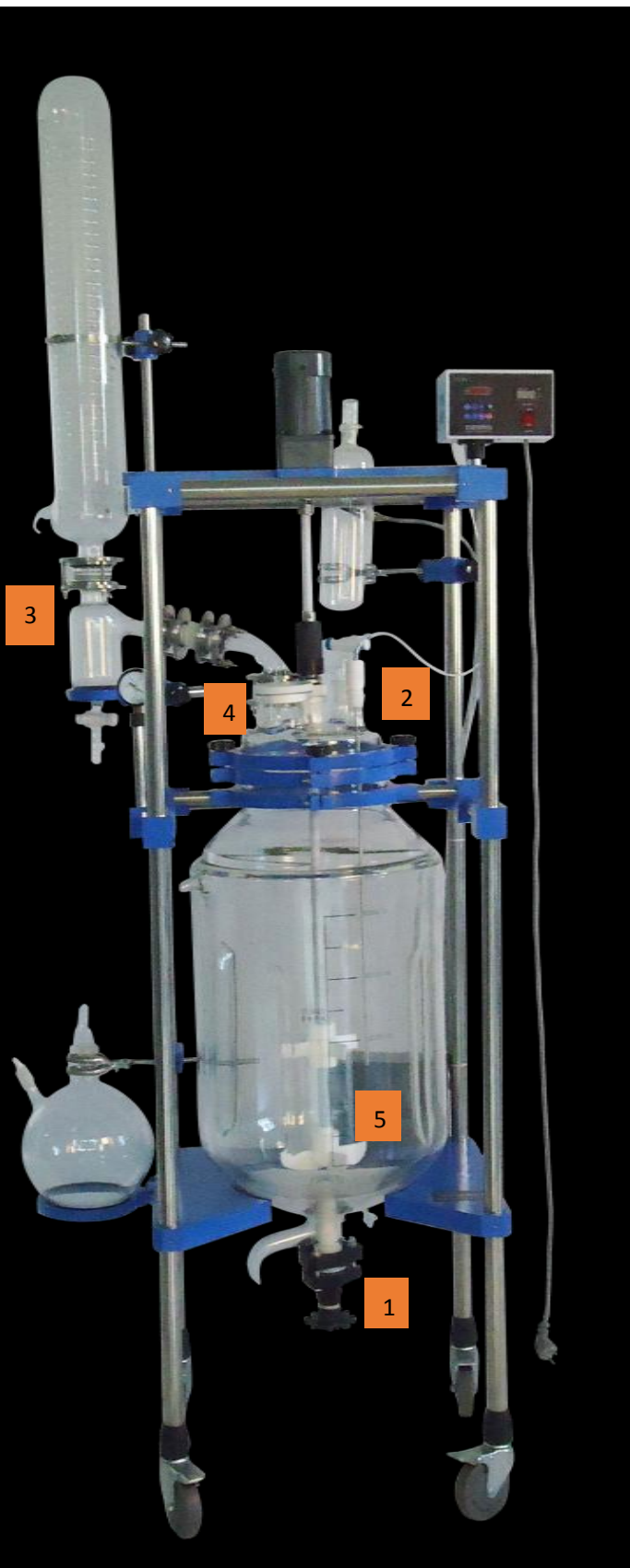




Double layer glass reactor 1L~200L



PTFE flush discharge valve

No-sample accumulation in valve during operation and discharge. Max drift diameters is 20mm.



Side discharge valve (standard or preload)

No dead angle, air isolated discharge. Max drift diameter 20mm. Preload discharge valve is able to decrease flask crack risk due to improper over-screw of discharge valve. Customization of TOPTION big capacity glass reactors.



Flask cap ($\geq 10L$)

- 1) Charging valve - pure charge process without gel pollution.
- 2) Thermometer-direct measurement
- 3) Condenser - Ball joint connection, easy to assemble, with less vibration.
- 4) All taper joints upgrade to flanges, no seizure, no damage to glass necks.



Flange quick press ring

One-piece quick clip design. Offer new experience on easy, reliable, and high sealing connection for



Glass reactor lid



Reactor stirring paddle

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



Double layer glass reactor 1L~200L



Double layer glass reactor



Three layer glass reactor

Three layer glass reactor customization

1. Compared with jacketed glass reactor, it has outermost layer to keep vacuum airtight state.
2. More effective to protect temperature, so as to save reaction time and finally make your research more effective.

Type	Stir medium flange	Liquid material inflow	Condenser	Temp. measure	Multi function valve	Solid charging port	Stirring paddle	Reactor lid flange	Inner diameter of reactor body	External diameter	Reactor body height	Power	Rotate speed
TOPT-1L	35	24# 0.25L	24#	14#	----	----	Φ 7mm Anchor type	150	113	150	250	40	50-800
TOPT-2L	35	24# 0.25L	24#	14#	----	----	Φ 7mm Anchor type	150	135	180	280	40	50-800
TOPT-3L	35	24# 0.25L	24#	14#	----	----	Φ 7mm Anchor type	150	150	200	300	40	50-800
TOPT-5L	40	24# 1L	24#	19#	24#	----	Φ 10mm single layer two blade paddle type	180	180	230	400	60	50-600
TOPT-10L	50	34# 1L	34#	DN15	DN25	----	Φ 16mm single layer three blade paddle type	265	230	290	450	120	50-600
TOPT-20L	50	34# 1L	34#	DN15	DN25	----	Φ 16mm single layer three blade paddle type	265	290	330	550	120	50-600
TOPT-30L	50	34# 1L	34#	DN15	DN25	----	Φ 16mm single layer three blade paddle type	265	330	365	730	120	50-600
TOPT-50L	50	34# 1L	34#	DN15	DN25	DN80	Φ 16mm double layer three blade paddle type	265	365	410	850	140	50-600
TOPT-80L	50	5L 24#	DN40 ball mouth	DN15	DN25	DN80	Φ 16mm three layer three blade paddle type	340	410	460	950	250	50-600
TOPT-100L	60	5L 24#	DN40 ball mouth	DN15	DN25	DN80	Φ 16mm three layer three blade paddle type	340	460	500	950	250	50-600
TOPT-150L	60	5L 24#	DN40 ball mouth	DN15	DN25	DN80	Φ 16mm three layer three blade paddle type	340	550	600	980	400	50-600
TOPT-200L	60	10L DN25	DN50 ball mouth	DN25	DN25	DN100	Φ 16mm three layer three blade paddle type	340/440PP flange	550	650		400	50-600



TOPD Series can be customized --- Downward open jacketed reactor

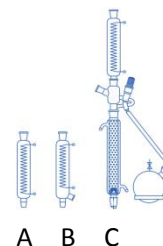
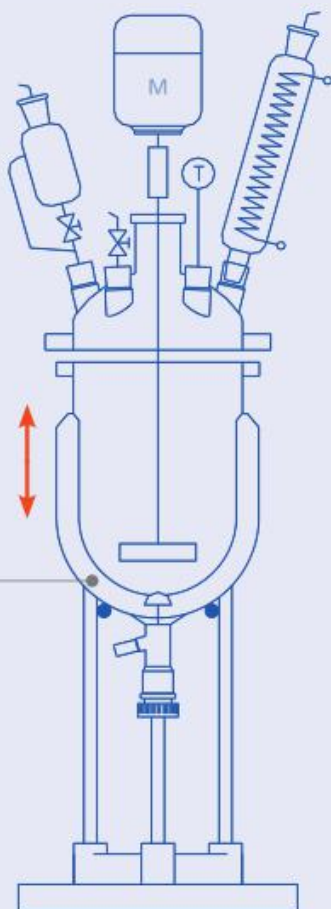


Allow you to attach flask of different capacity on same reactor head. Flexible for more purposes.

Functional configuration diagram & customization support

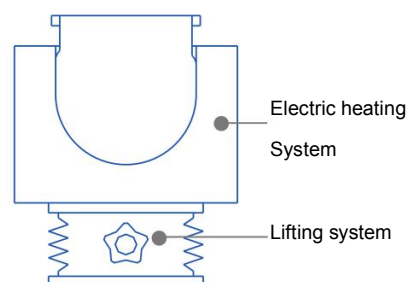
The reactor body design principle:

Jacketed Reaction Flask
-Downward open without move of head and glass fittings
-F180 connection flange, can shift
1-5L reaction flasks
-Ø8 drift diameter



A. Reflux Condenser
B. (Optional) Distillation Condenser
C. (Optional) Rectification-Receiving Sys.

Electric heating reaction system optional / available





Glass reactor with lifting & rotating function

1. Kettle body lift, rotate also 120 °C, easy to use and clean;
2. Glass interface flange seal avoids the use of vacuum grease seal appears the phenomenon is difficult to open;
3. Full flange interface, can withstand a positive pressure to 0.03Mpa.



Type	Stir medium flange	Liquid material inflow	Condenser	Temp measure	Multi function valve	Solid charging port	Stirring paddle	Reactor lid flange	Inner diameter of reactor body	External diameter	Reactor body height	Power	Rotate speed
TOPR-1L	35	24# 0.25L	24#	14#	----	----	∅ 7mm Anchor type	150	113	150	250	40	50-800
TOPR-2L	35	24# 0.25L	24#	14#	----	----	∅ 7mm Anchor type	150	135	180	280	40	50-800
TOPR-3L	35	24# 0.25L	24#	14#	----	----	∅ 7mm Anchor type	150	150	200	300	40	50-800
TOPR-5L	40	24# 1L	24#	19#	24#	----	∅ 10mm single layer two blade paddle type	180	180	230	400	60	50-600
TOPR-10L	50	34# 1L	34#	DN15	DN25	----	∅ 16mm single layer three blade paddle type	265	230	290	450	120	50-600
TOPR-20L	50	34# 1L	34#	DN15	DN25	----	∅ 16mm single layer three blade paddle type	265	290	330	550	120	50-600
TOPR-30L	50	34# 1L	34#	DN15	DN25	----	∅ 16mm single layer three blade paddle type	265	330	365	730	120	50-600
TOPR-50L	50	34# 1L	34#	DN15	DN25	DN80	∅ 16mm double layer three blade paddle type	265	365	410	850	140	50-600



Professional customization of glass reactor



Reactor with pipe bundle condenser



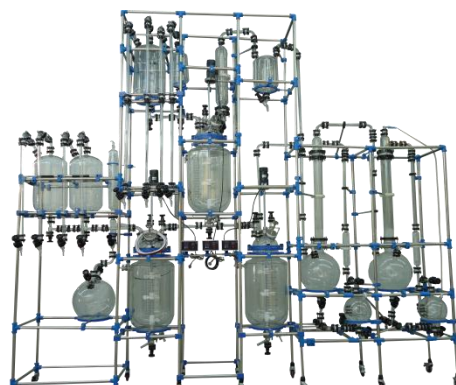
Reactor with horizontal condenser



Reactor with sample condenser



Reactor with rectification column system



Reactor with tail gas treatment system



Falling film evaporator



Reactor with IR heater(400℃)



Reactor with PLC automatic system

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



Professional customization of 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



Ultrasonic continuous reactor



Ultrasonic reactor



Multi-function reactor with filter system