

High pressure photochemical reactor vessel

1. Main components: stainless steel reaction vessel, PTFE sets, pressure quartz glass, filter etc.
2. Customization: -120 °C ~300 °C High and Low Temperature Circulator, Overpressure release gas protection device, Taylor standard sieve.
3. This type high pressure photochemical reactor vessel need to use together with TOP-X series light source.

TPR-S series



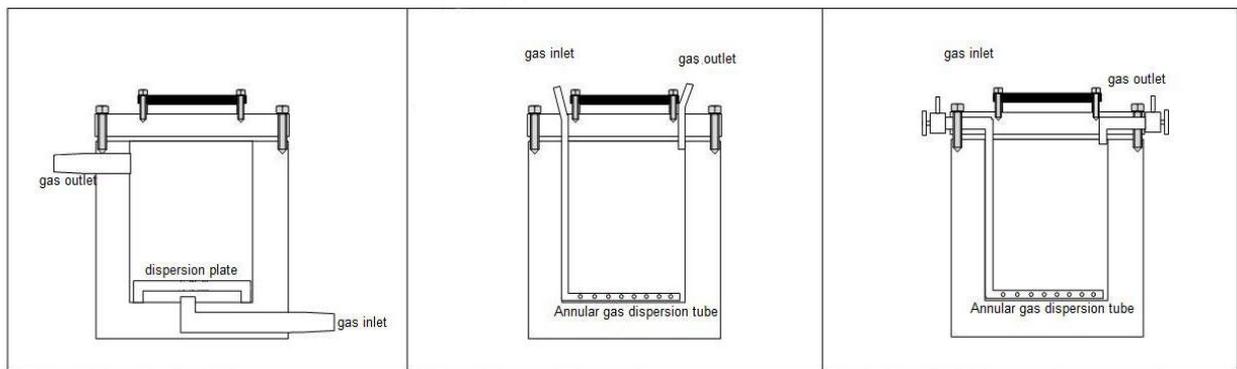
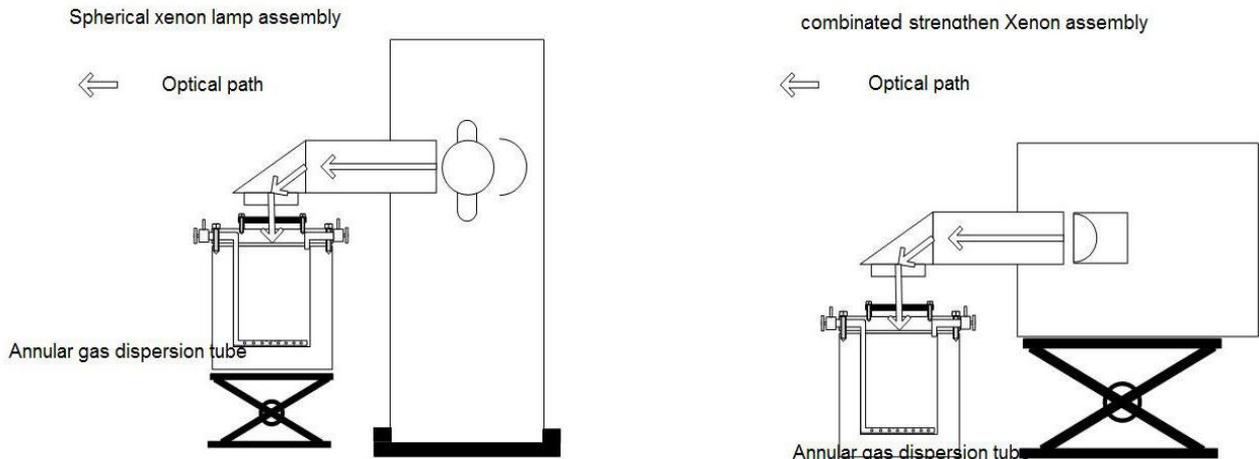
Technical specification:

Model	TPR-S150	TPR-S300	TPR-S500	TPR-S1000
Irradiation diameter	80MM	80MM	80MM	100MM
Pressure light window	Intron	Intron	Intron	Intron
Main material of the reaction vessel(optional)	Stainless steel 316L/ pure titanium / Hastelloy alloy material			
Single corrosion PTFE inner capacity	150ML	300ML	500ML	1000ML
Jacket type corrosion resistant PTFE inner capacity (optional)	150ML	300ML	500ML	1000ML
Design pressure (optional)	2KG/5KG/10KG/20KG			

TPR-HP series

Model	TPR-HP150	TPR-HP300	TPR-HP500	TPR-HP1000
Light source type	Xenon/mercury lamp			
Light source power	500W	500W	1000W	1500W
Light source life span	1000H	1000H	1000H	1000H
Radiation characteristics	Point source	Point source	Point source	Point source
Irradiation diameter	80MM	80MM	80MM	100MM
Cooling system	3 strong radiator			
Pressure light window	Intron			
Magnetic stirring apparatus	Intron			
Lifting platform	Intron			
The main material of the reaction vessel	Stainless steel 316L			
Single corrosion PTFE inner capacity	150ML	300ML	500ML	1000ML
Jacket type corrosion resistant PTFE inner capacity (optional)	150ML	300ML	500ML	1000ML

Customization provide, please refer to the below drawing :



1. A. SS316L inner, PTFE protection jacket can be attached. Strong acid and alkali resistance, excellent physical and chemical properties.
2. Actual bear max temperature of 900°C.
3. Actual bear positive pressure will base on your requests.
4. Bottom dispersion plate gas inlet.
5. Top visual and gripping filter.
6. Detachable lid and body.

1. B. SS316L inner, PTFE protection jacket can be attached.
2. Strong acid and alkali resistance, excellent physical and chemical properties.
3. Actual bear max temperature of 900°C
4. Actual bear positive pressure will base on your requests.
5. Bottom annular gas dispersion tube for gas inlet.
6. Top visual and gripping filter.
7. Detachable lid and body.

1. C. Full SS316L inner.
2. Strong acid & alkali resistance, excellent physical & chemical properties
3. Actual bear max temperature of 900°C.
4. Actual bear positive pressure will base on your requests Bottom annular gas dispersion tube for gas inlet.
5. Top visual and gripping filter.
6. Detachable lid and body.
7. Needle valve which can bear pressure to control gas inside.

Rotary Evaporator
 Scraped Film Evaporator / Short Path (Molecular) Distillation System
 Chemical Glass Reactor
 High Shear Homogeneous Emulsification Reactor
 Pilot Ultrasonic Emulsification Reactor
 Vacuum Filter / Glass Liquid Separator
 Photochemical Glass Reactor
 Hydrothermal Synthesis Reactor
 High Pressure Reactor