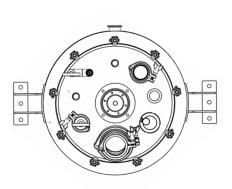
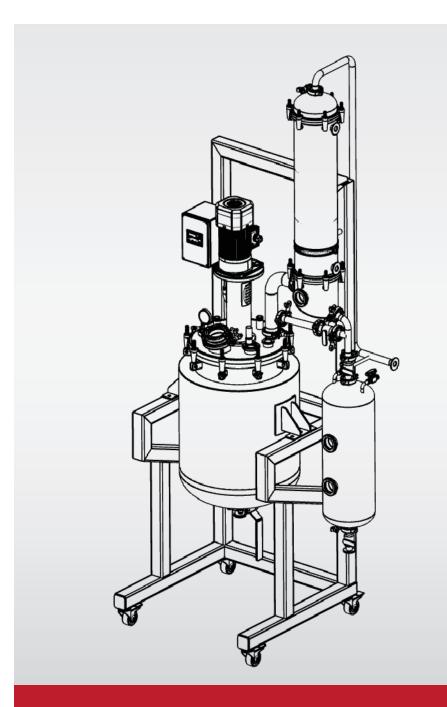


Stainless Steel Reactor for Scale Up and Small-scale Production

SR500 Series

- > Chemical Reaction
- > Evaporation, Precipitation, Crystallization
- > Filtration, Washing
- > Plant Extraction
- > Process Scale-up





Core Features



Scalable Platform

- **> Multi-scale Capacity:** 5L, 10L, 20L, 30L, 50L, 100L, 150L and 200L (or larger).
- > **Modular Versatility:** One apparatus enables multiple processes across R&D, pilot, and production scales.
- > **Compact & Mobile:** Space-saving stainless frame on wheels for easy repositioning.

Advanced Engineering

- > **Corrosion-Resistant Materials:** SUS304, PTFE, FFKM, and PPL for demanding chemistry.
- > **Uniform Heating:** Baffled thermal jacket ensures precise and consistent temperature control.
- > **Enhanced Mechanical Sealing:** Reliable performance for long-term operation.





Controller

4-Blade Pitched Impeller

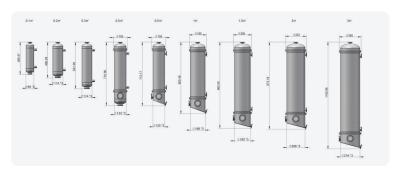
Flexible Configuration

- > **Plug & Play:** Fully assembled and skid-mounted for quick commissioning.
- > **Modular Upgrades:** Optional condenser, solvent collection tank, keg, and filter modules.
- > **Customizable Systems:** Tailored tank structures, control systems, automation, and safety certifications available.

Quality Assurance

- > Turnkey Solution: From design to delivery, we handle everything.
- > Certified & Compliant: CE certified; additional standards upon request.
- > **Built to Last:** Rugged design suitable for laboratory and industrial environments.

Optional Modules



Condenser

 Type
 Shell and Tube Condenser

 Heat Transfer Area [m²]
 0.1 / 0.2 / 0.3 / 0.5 / 1 / 1.5 / 2 / 3

 Material
 SUS304





Solvent Collection Tank

 Type
 Single-wall Collection Tank

 Material
 SUS304, Borosilicate Glass, PTFE

 Total Volume [L]
 3 / 5 / 10 / 15 / 20 / 30 / 50 / 100 / 150

 Sight Glass
 2 pc



Collection Keg

 Type
 Single-wall Beer Keg

 Material
 SUS304

 Total Volume [L]
 20 / 30 / 50 / 60 / 120

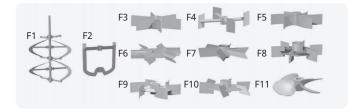
 Design Pressure
 -0.1Mpa~0.6Mpa [-1bar~6bar]





Filter

 $\label{eq:continuous_problem} Type & Vacuum Filtration & Positive Pressure Filtration & SUS304, Borosilicate Glass, PTFE \\ Design Pressure & -0.1Mpa~0.4Mpa [-1bar~4bar] \\ Design/Working Temperature & -80~250°C / -80~220°C \\ Sintered Mesh Pore Size [µm] & 100 \\ Filtration Volume [L] & 100 / 20 / 50 \\ Filter Area [m²] & 0.06 / 0.1 / 0.16 \\ \end{tabular}$



Impeller

Impeller Type Ribbon spiral belt impeller, anchor impeller, radial flow type impeller, axial flow paddles, triple-blade propeller, etc.



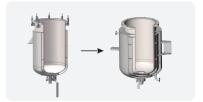
Spray Ball

Quantity ----- 2

Upgrades



Side Observation Window



Insulation Layer



Surface Treatment: Mirror Polishing, Electrolysis, Passivation, etc.



Material: 316L, 2205



Weighing Module [Mettler Toledo]



Liquid Level Detection



Online Detection and Control

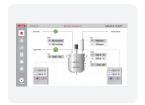








Certification (CSA/ATEX/IECEx/UL)



PLC + Color Touch Screen Control System



Pneumatic Motor



Bursting Disc



Magnetic Drive



Tank Cover Lifting

Cases

50L Jacketed Reactor with Evaporation, Filtration and Liquid Collection Tank



Jacketed Reactor with Ribbon Spiral Belt Impeller



50L Reactor with Larger Condenser and Collection Tank



30L Reactor with Customized Lid Layout, Liquid Detection and Sight Glass



50L Reactor with Filtration & Collection for Recrystallization



10L Reactor with Customizable OD:H Ratios & Interchangeable



10L Reactor with Pneumatic Lifting and Weighing System



50L Reactor with Integrated CIP, Filtration, for Recrystallization Processes, including Post-crystallization Solid-liquid Separation and Collection.



50L Jacketed Reactor - High Temperature with Integrated Vessel Weighing system, Inline Monitoring Electrodes, and PLC control



Specification

Model	SR500-5L	SR500-10L	SR500-20L	SR500-30L	SR500-50L	SR500-100L	SR500-150L	SR500-200L
Process Design								
Installation Dimension [mm]	350×1200×365	406×1380×400	460×1420×440	520×1600×530	640×1800×630	770×1950×680	850×2000×850	900×2200×900
[W×H×D] ["]		16.0×54.4×15.8		20.5×63.0×20.9	25.2×70.9×24.8	30.3×76.8×26.8	33.5×78.5×33.5	35.5×86.6×35.5
Installation Weight	40 kg 88 lb	60 kg 132 lb	73 kg 161 lb	101Kg 223lb	132Kg 291lb	187Kg 413lb	265 kg 584 lb	362 kg 798 lb
Material Design		Borosilicate Glass	3 .	3,	<u> </u>	3.	3.	<u>J</u> .
Design/Working Pressure	-0.1Mpa~0.6Mpa [-1bar~6bar] / -0.1Mpa~0.5Mpa [-1bar~5bar]							
Design/Working Temperature								
Agitation	Variable Frequency Speed Control, 20~500rpm [<50L], 20~550rpm [≥50L]							
Environmental Requirements		: 5~40°C, Humidi						
Communication	RS485 [Modbu							
Power Supply	-	Phase, 50-60HZ;	AC108-120V, 1Pł	nase, 60HZ				
Mechanical Design								
Inner Shell Thickness [mm]	3	4	4	5	5	6	6	6
Jacket Thickness [mm]	3	3	3	3	3	4	4	4
Lid Type	Flat Flange	I		ı		Flat Flange + El	liptical Head	
Bottom Type	Elliptical Head							
Support Type	Frame Support							
Inner/Outer Surface Finish	Brushed							
Vessel Type	Single Jacket V	essel						
Diameter/Height Ratio	1.40	1.47	1.48	1.32	1.39	1.19	1.31	1.34
Total Volume [L]	6.6	13.0	24.8	37.7	61.5	118.3	172.6	229.6
Max Operating Volume [L]	5.4	10.5	20.4	31.0	50.9	101.2	149.9	200.3
Min Operating Volume [L]	0.63	1.18	2.35	3.79	5.96	13.42	18.19	23.99
Heating Area [m²]	0.20	0.32	0.50	0.65	0.91	1.45	1.87	2.27
Jacket Volume [L]	2.94	6.52	9.53	12.43	16.98	25.71	34.08	41.40
Lid			1772		1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Gauge & Safety Valve, 1x Gas Inlet 10~50L: 1x Agitator Port, 1x Solid Feed & Sight Glass 1, 1x Sight Glass 2 & Illumination, 1x Vent, 1x Liquid Feed, 1x Thermowell, 1x Vacuum Gauge & Safety Valve, 1x Gas Inlet ≥100L: Includes all configurations of the 10–50L model, plus 1x Vent, 1x Sight Glass 3 and 1x Sight Glass 4							
	≥ root: include	s all configuratio	ns of the 10-50L	model, plus 1x \	/ent. 1x Sight Gla	ss 3 and 1x Sigh	t Glass 4	
Solid Feed & Sight Glass 1		_			_	ss 3 and 1x Sigh	t Glass 4	
Solid Feed & Sight Glass 1 Liquid Feed	1.5"TC	s all configuratio	2.5"TC & 2"TC		/ent, 1x Sight Gla	ess 3 and 1x Sigh	t Glass 4	
Liquid Feed	1.5"TC 1×G1/2" Male	_	2.5"TC & 2"TC 1×G3/4" Male		1	iss 3 and 1x Sigh	t Glass 4	
-	1.5"TC	_	2.5"TC & 2"TC		1	ass 3 and 1x Sigh	t Glass 4	2×2.0"TC
Liquid Feed Gas Inlet Vent	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC	2.5"TC & 1.5"TC	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC	3"TC & 2"TC 1×1.5"TC	3.5"TC & 3"TC	2×2.0"TC	2×2.0"TC	
Liquid Feed Gas Inlet Vent Light & Sight Glass 2	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A	2.5"TC & 1.5"TC	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male	3"TC & 2"TC	3.5"TC & 3"TC			2×2.0"TC ID50mm
Liquid Feed Gas Inlet Vent	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A	2.5"TC & 1.5"TC 1×1.5"TC ID38mm	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC	3"TC & 2"TC 1×1.5"TC	3.5"TC & 3"TC	2×2.0"TC ID50mm	2×2.0"TC	
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm	3"TC & 2"TC 1×1.5"TC ID50mm	3.5"TC & 3"TC 1×2.0"TC ID50mm	2×2.0"TC ID50mm 1×1.5"TC	2×2.0"TC ID50mm	ID50mm 1×1.5"TC
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC	3.5"TC & 3"TC 1×2.0"TC ID50mm 1×1.5"TC	2×2.0"TC ID50mm	2×2.0"TC ID50mm	ID50mm
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC 1×1.0"TC	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC	1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC	1×1.5"TC 1×1.5"TC
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC 1×1.0"TC N/A	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A	1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC	1×1.5"TC 1×1.5"TC 2×3.0"TC
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC 1×1.0"TC	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC	1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC	1×1.5"TC 1×1.5"TC
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side Jacket Fluid Outlet	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC 1×1.0"TC N/A 1×G1/2"Male	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male	1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC	1×1.5"TC 1×1.5"TC 2×3.0"TC
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side Jacket Fluid Outlet Vessel Bottom	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC 1×1.0"TC N/A	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A 1×G1/2"Male	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male	1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male	1D50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side Jacket Fluid Outlet Vessel Bottom Jacket Fluid Outlet	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC 1×1.0"TC N/A 1×G1/2"Male 1×G1/2"Male	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A 1×G1/2"Male 1×G1/2"Male	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male	1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male	1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side Jacket Fluid Outlet Vessel Bottom Jacket Fluid Outlet Discharge Outlet Agitation	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC 1×1.0"TC N/A 1×G1/2"Male 1×G1/2"Male	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A 1×G1/2"Male 1×G1/2"Male	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male	1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male	1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side Jacket Fluid Outlet Vessel Bottom Jacket Fluid Outlet Discharge Outlet	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC 1×1.0"TC N/A 1×G1/2"Male 1×G1/2"Male	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male	1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male	1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side Jacket Fluid Outlet Vessel Bottom Jacket Fluid Outlet Discharge Outlet Agitation Impeller	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC N/A 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male	1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male	1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side Jacket Fluid Outlet Vessel Bottom Jacket Fluid Outlet Discharge Outlet Agitation Impeller Impeller Type	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC 1×1.0"TC N/A 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male 1×1.5"TC	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×G3/4"Male	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC	1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male 1×2.0"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male 1×2.0"TC	1D50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male 1×2.0"TC
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side Jacket Fluid Outlet Vessel Bottom Jacket Fluid Outlet Discharge Outlet Agitation Impeller Impeller Type Number of Impellers	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC 1×1.0"TC N/A 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male 1×1.5"TC	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A 1×G1/2"Male 1×G1/2"Male 1×1.5"TC d Impeller	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×G3/4"Male	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC	1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male 1×2.0"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male 1×2.0"TC	1D50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male 1×2.0"TC
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side Jacket Fluid Outlet Vessel Bottom Jacket Fluid Outlet Discharge Outlet Agitation Impeller Impeller Type Number of Impellers Motor	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC N/A 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male 1×1.5"TC	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A 1×G1/2"Male 1×G1/2"Male 1×1.5"TC d Impeller	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×G3/4"Male	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC	1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male 1×2.0"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male 1×2.0"TC	1D50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male 1×2.0"TC
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side Jacket Fluid Outlet Vessel Bottom Jacket Fluid Outlet Discharge Outlet Agitation Impeller Impeller Type Number of Impellers Motor Motor Type	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC 1×1.0"TC N/A 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male 1×AG1/2"Male 1×AG1/2"Male 1×AG1/2"Male 1×AG1/2"Male	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A 1×G1/2"Male 1×G1/2"Male 1×1.5"TC d Impeller 1	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC	3.5"TC & 3"TC 1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male 1×2.0"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×C3/4"Male 1×2.0"TC	1D50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male 1×2.0"TC
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side Jacket Fluid Outlet Vessel Bottom Jacket Fluid Outlet Discharge Outlet Agitation Impeller Impeller Type Number of Impellers Motor Motor Type Motor Power [W]	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC N/A 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male 1×1.5"TC	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A 1×G1/2"Male 1×G1/2"Male 1×1.5"TC d Impeller 1 ar Reducer 120W	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC	3.5"TC & 3"TC 1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male 1×2.0"TC	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male 1×2.0"TC	1D50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×G3/4"Male 1×2.0"TC
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side Jacket Fluid Outlet Vessel Bottom Jacket Fluid Outlet Discharge Outlet Agitation Impeller Impeller Type Number of Impellers Motor Motor Type Motor Power [W] Built-in Gearbox Ratio	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC 1×1.0"TC N/A 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male 1×G1/2"Male 1×1.5"TC 4-Blade Pitched 1 AC Motor + Ge 120W 1:3	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A 1×G1/2"Male 1×G1/2"Male 1×1.5"TC d Impeller 1 ar Reducer 120W 1:3	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC 2	3.5"TC & 3"TC 1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×1.5"TC 2 370W 1:3	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×2.0"TC 3	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×2.0"TC 3	1D50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×2.0"TC 3 750W 1:3
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side Jacket Fluid Outlet Vessel Bottom Jacket Fluid Outlet Discharge Outlet Agitation Impeller Impeller Type Number of Impellers Motor Motor Type Motor Power [W] Built-in Gearbox Ratio Starting Torque [N·m]	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC 1×1.0"TC N/A 1×G1/2"Male 1×G1/2"Male 1×1.5"TC 4-Blade Pitched 1 AC Motor + Ge 120W 1:3 6.24	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A 1×G1/2"Male 1×G1/2"Male 1×1.5"TC d Impeller 1 ar Reducer 120W 1:3 6.24	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC 2	3.5"TC & 3"TC 1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×1.5"TC 2 370W 1:3 17.7	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×2.0"TC 3	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×2.0"TC 3 750W 1:3 35.7	1D50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×2.0"TC 3 750W 1:3 35.7
Liquid Feed Gas Inlet Vent Light & Sight Glass 2 Vacuum Gauge & Safety Valve Thermowell Spare Port Sight Glass 3 & 4 Vessel Side Jacket Fluid Outlet Vessel Bottom Jacket Fluid Outlet Discharge Outlet Agitation Impeller Impeller Type Number of Impellers Motor Motor Type Motor Power [W] Built-in Gearbox Ratio Starting Torque [N·m] Rated Torque [N·m]	1.5"TC 1×G1/2" Male 1×G1/2" Male 1×1.5"TC N/A 1×G1/2" Male 1×1.0"TC 1×1.0"TC N/A 1×G1/2"Male 1×1.5"TC 4-Blade Pitched 1 AC Motor + Ge 120W 1:3 6.24 2.22	2.5"TC & 1.5"TC 1×1.5"TC ID38mm 1×1.5"TC 1×1.5"TC N/A 1×G1/2"Male 1×G1/2"Male 1×1.5"TC d Impeller 1 ar Reducer 120W 1:3 6.24	2.5"TC & 2"TC 1×G3/4" Male 1×G3/4" Male 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC 2 120W 1:3 6.24 2.22	3"TC & 2"TC 1×1.5"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×G3/4"Male 1×1.5"TC 2 200W 1:3 9 3.75	3.5"TC & 3"TC 1×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC N/A 1×G3/4"Male 1×1.5"TC 2 370W 1:3 17.7	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×2.0"TC 3	2×2.0"TC ID50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×2.0"TC 3 750W 1:3 35.7	1D50mm 1×1.5"TC 1×1.5"TC 2×3.0"TC 1×G3/4"Male 1×2.0"TC 3 750W 1:3 35.7

Scalable Solutions for Pilot & Production

Stainless Steel Reactor System [Up to 20m³]

For industrial-scale production requirements, we engineer and manufacture heavy-duty stainless steel reactor systems with capacities up to 20m³. These robust systems are designed for demanding applications in both pilot plants and full-scale manufacturing.

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Related Equipment



Cooling Circulator

- DL series: -20/-30/-40°C ~ RT DLH series: -120/-80/-40/-30/-20°C ~ RT



Heating Cirulator

• UC series: RT ~ 200/300°C



Heating Cooling Cirulator

- HR-F series: -25°C ~ 200°C
- HRV series: -100°C ~ 100°C, -80°C ~ 200°C, -40°C ~ 200°C, -40°C ~ 250°C



Vacuum Pump

- Water aspirator vacuum pump
- PTFE diaphragm vacuum pump
 Industrial water-jet vacuum pump system
- Screw pump