

AISHENGKE Technology

Reactor Series Product Brochure

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Aishengke (Jiangsu) Chemical Technology Co., Ltd.

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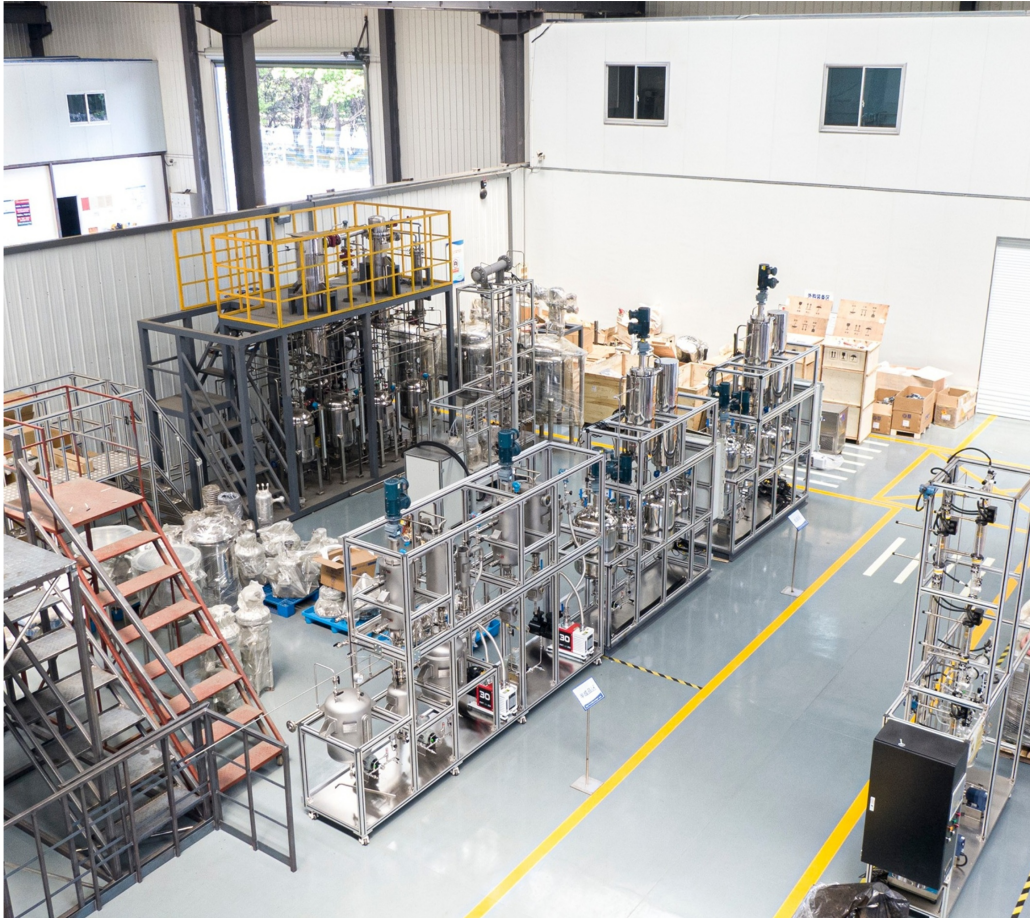
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ABOUT US



Company Profile

Aishengke (Jiangsu) Chemical Technology Co., Ltd. is an engineering equipment company specializing in providing small-scale R&D, pilot-scale scale-up, electronic-grade materials and fine chemicals industrialization projects for scientific research institutes, university laboratories, factories and enterprises. Company address Located at No. 109, Liuyanghe Road, Xinbei District, Changzhou, Jiangsu Province, it has an office building of 1,500 square meters, a R&D and analysis laboratory of 500 square meters, and a standard workshop of 4,500 square meters. Department, glass instrument production department, chemical equipment production department, automation instrumentation integration business department, installation and after-sales service department, etc.

Company Culture

Integrity

Cooperation

win-winunity

innovation

struggle

Basic glass reactor

I Product Features

1. Frequency conversion speed regulation, the motor has no sparks, is safe and reliable, and has a long service life.

2. The PTFE material and the special rubber compound sealing ring are used for sealing, which can withstand various solvents and maintain a high degree of vacuum, which is very convenient to use.

3. Standard vertical high-efficiency condenser, high-efficiency recovery rate

4. The stirring paddle is made of corrosion-resistant PTFE stirring blade, which is corrosion-resistant

5. Standard ball mill mouth, stainless steel bellows. The cooling or heating solution in the interlayer can also be completely eliminated after the reaction is completed.



Model	A-GR-10-S	A-GR-20-S	A-GR-30-S	A-GR-50-S	A-GR-100-S
Jacket volume (L)	3	6	8	16	30
Effective volume (L)	10	20	30	50	100
Condensation area (m ²)	0.25	0.35	0.45	0.6	0.95
Dropping tank volume (L)	1	2	2	2	10
Agitator insert	DN50 flange			50#flange	60#flange
Temperature sensor	34#Standard ground				
Condenser connection	DN50 Standard ground			DN50 ball ground	
Working temperature(°C)	-80 ~ 200				
Jacket pressure resistance(MPa)	-1~0				
Mixing motor power(W)	120			180	200
Size (W×D×H mm)	840×640×1780	840×640×1910		900×690×2100	1270×810×2400
Weight (kg)	48	67	75	82	119

Upgraded glass Reactor

Product Features

1. According to the design concept of industrial reaction system, the product has added distillation function on the basis of single reaction synthesis, it can make distillation after the reaction, and remove low-boiling substances in the material, such as solvent, water, etc.;

2. The condenser adopts an abdominal wall vertical condenser, which increases the heat exchange area, and adds a low-temperature jacket to keep the cold outside, which increases the processing capacity during the distillation process and reduces the energy loss caused by the environmental impact on the equipment.

3. The product collection tank is added, which is convenient to operate. After the reaction is completed, open the bottom valve and discharge the material.

4. The product is designed with a liquid phase reflux distributor, which is switched by valve operation. If closing the valve to make reaction, the low-boiling point solvent or catalyst is heated, volatilized and then returned to the reaction kettle through cold trap cooling. If opening the valve to make distillation, the low boiler evaporates after being heated, and the steam enters the collection tank through the reflux distributor after condensing.

5. The collection tank is connected to the return distributor with the method of the broadened mouth connection. The pipeline is made of PFA material, which has better anti-corrosion performance and intuitive observation. This design replaces hard connections of glass to reduces the risks of glass instruments' damages during use or disassembly.

6. The solid feeding is changed to a screw cap design, which is convenient to open/close. The material is made of PTFE, and a sealing ring is added to the sealing part connected to the reaction kettle to improve the air tightness of the system;



Model	A-GR-10-UV	A-GR-20-UV	A-GR-30-UV	A-GR-50-UV	A-GR-100-UV
Jacket volume (L)	3	6	8	16	30
Effective volume (L)	10	20	30	50	100
Condensation area (m ²)	0.45	0.5	0.5	0.6	0.8
Dropping tank volume (L)	2	2	2	5	5
Collection tank volume (L)	5	5	5	10	20
Temperature sensor	DN25 flange ball mouth				
Condenser connection	DN40 flange ball mouth			DN70 flange ball mouth	
Working temperature(°C)	-80 ~ 200				
Jacket pressure resistance(MPa)	≤0.3				
Mixing motor power(W)	120			180	200
Size (W×D×H mm)	1000×650×2000		1100×650×2400		1400×650×2700

The newest glass reactor

I Product Features

1.The volume of the dripping tank is increased, which provides the processing capacity of the whole device

2.On-site pressure gauge display is added to the reaction kettle, and the on-site temperature is monitored in real time to ensure the real-time observation of pressure and temperature changes during the reaction/distillation process.

3.The product collection tank is added, which is convenient to operate. After the reaction is completed, open the bottom valve and discharge the material.

4.All valves are made of PTFE material, which has better sealing performance and is more convenient to clean/replace;

5.The mechanical stirring seal adopts a new design seal, which has better air tightness and is more stable and reliable during high-speed operation

6.The overall frame adopts a movable integrated lifting design, which has a compact and beautiful appearance. The surface of the frame is treated with anti-corrosion spray. During the cleaning process of the reactor body, the kettle body can be easily lifted and lowered by rotating the handle. The kettle body can be easily rotated, all the connecting parts are assembled, and the kettle body is easy to disassemble and clean in the later stage. This new design greatly solves the problems of compact space and cumbersome operation for customers, and can be used in a fume hood.



Model	A-GR-10-L	A-GR-20-L	A-GR-30-L	A-GR-50-L	A-GR-100-L
Jacket volume (L)	3	6	8	16	30
Effective volume (L)	10	20	30	50	100
Condensation area (m ²)	0.45	0.5	0.6	0.8	1.5
Dropping tank volume (L)	5	5	5	10	25
Collection tank volume (L)	5	5	5	10	25
Temperature sensor	DN25 flange ball mouth				
Condenser connection	DN40 flange ball mouth			DN70 flange ball mouth	
Working temperature(°C)	-80 ~ 200				
Jacket pressure resistance(MPa)	≤0.3				
Mixing motor power(W)	120			180	200
Size (W×D×H mm)	800×1100×2200		800×1100×2400	900×1100×2800	
Stirring torque (g.cm)	22000			33000	38000
Speed adjustment range (rpm)	50~650				

Stainless steel reactor

I Product Features

- 1.The maximum pressure resistance is 100bar, and the temperature resistance is 300°C;
- 2.The material of the equipment can be customized according to customer requirements, and can provide 304, 316, 316L, titanium alloy, Hastelloy, fluorine lining and other materials for selection;
- 3.The stirring system adopts mechanical stirring and magnetic coupling seal to ensure the airtightness and safety of the whole system;
- 4.The lid of the reactor is fixedly installed, which is convenient for the disassembly or cleaning of the reactor. It only needs to lift or turn over the kettle body, and the kettle body lifting adopts one-button automatic lifting;
- 5.The control system adopts PLC control and data acquisition, and all data such as temperature, pressure, and stirring speed are integrated into the touch screen for control and display, which can provide customers with secondary development services;
- 6.The inside and outside of the reaction kettle is mirror-polished, and the roughness is less than 0.25μm to ensure cleanliness and easy cleaning;
- 7.Equipped with oil bath or high and low temperature unit to control the temperature of the reaction kettle, and built-in coils can ensure the accuracy of temperature control;
- 8.Condenser and reflux discharge device can be added according to customer requirements, with a reaction/separation integrated design.



Model	A-SR-5	A-SR-10	A-SR-20	A-SR-30	A-SR-50
Effective volume(L)	5	10	20	30	50
Dropping tank volume(ml)	500	1000	2000	5000	5000
The height of the kettle(mm)	357	376	431	457	541
Inner diameter of kettle (mm)	151	246	300	350	400
Bracket (standard)	Pneumatic lift				
Stirring form	Overhead Magnetic Stirring				
Speed range(rpm)	20 ~ 1800				
Design temperature (°C)	-25~300°C				
The pressure in the kettle (bar)	-1bar ~ 10bar(can be customized according to)				
Jacket pressure (bar)	5bar				
Sealing material (standard)	PTFE (Viton, FFKM and other materials are optional)				
Power	220V			380V	