

# Wiped Film Distillation

TYPE A



## Molecular Distillation Equipment

Series	Part Name	Description	Qty	Noted
1、Feeding system				
1-1	Feed valve	Brand: ANTITECK or other Material: high borosilicate glass 3.3 Item No.: 0-8mm high vacuum degree valve Spheric ground glass joint type : RS30	1	
1-2	Feed Flask	Brand: ANTITECK or other Material: high borosilicate glass 3.3 Capacity: 1.0L(With scale, with constant pressure) Constant pressure valve: 0-4mm Discharge valve: 0-8mm Discharge port	1	Optional (1~5L)

		: Spheric ground glass joint type RS30 O-ring R30 for export (material FEP+ Fluorine) Design temperature: RAT $\approx$ 300 $^{\circ}$ C Operating temperature: RAT $\approx$ 200 $^{\circ}$ C Included: 2 vacuum valves		
1-3	Feeding pump	Brand: ANTITECK or other IPUMP-2L Rotation speed: 0.1~200(digital display) Resolution ratio: 0.1RPM Flow range: 0.002~380 ml/min	1	Optional(0.002~1140/2280ml ) Or Material feed gear pump
2、 Main evaporator system				
2-1	Motor	Brand: JSCC Voltage: 220V/50HZ Power: 120W Rotating Speed: 1440r, Reduction ratio3: 1 Real speed: 0-300rpm	1	
2-2	Magnetically coupled system	Brand:ANTITECK or other Driving source: Customized high temperature resistance large diameter multistage strong magnetic Fixed block material: PTFE,PEEK Bearing material: imported German wear-resistant high temperature corrosion resistant bearing (brand SKF) Jacket material : 316L	1	
2-3	Scraper Blade	Brand: ANTITECK or other Item No.: YHMD-60A Frameworks Material : 316L Scraper Blade material: PTFE+Graphite composite	1	

		material, high temperature resistance 300°C		
		Scraper Blade: Bevel gear, close to the inner wall of the main evaporator		
2-4	Main evaporator	Brand:ANTITECK or other	1	
		Material: high borosilicate glass 3.3		
		Type: Outer jacket, through heat conduction oil; Inner coil + bulb condensation		
		Effective evaporation area: 0.05m <sup>2</sup>		
		Inner condensing area: 0.1m <sup>2</sup>		
		Design temperature: 350°C		
		Operating temperature: ≤ 300°C		
		Design pressure: 0.001Pa		
		Stirring mouth: flange with groove, matching O-ring (FEP+ fluorine)		
		Upper right feed port: glass bowl port RS30		
		Lower left steam outlet: glass bowl mouth RS30		
		Lower right exit: glass bowl plug RS30		
		Lower left exit: glass bowl plug RS30		
		Heat transfer oil inlet and outlet: DN15		
		Condensate inlet and outlet: DN15		
2-5	Receiving bottle of Main evaporator	Brand: ANTITECK or other	2	
		Material: high borosilicate glass 3.3		
		Capacity: 1.0L		
2-6	Glass cold trap	Brand: ANTITECK or other	1	
		Material: high borosilicate glass 3.3		
		Type: Double jacketed cold trap		

		Capacity: 2.5L		
		It comes with a dust cover		
		Cooling medium: dry ice or liquid nitrogen or other not included.		
2-7	Cold trap receiving bottle	Brand: ANTITECK or other	1	
		Material: high borosilicate glass 3.3		
		Capacity: 1.0L		
2-8	lifting device	Brand: ANTITECK or other	2	
		shock-absorber : 140mm cock tip		
		Lifting device: experimental lifting platform for 304 table		
2-9	Heating System	Brand:ANTITECK or other or other	1	Optional(international brand)
		Type: High temperature circulator		
		Tank capacity: 10L		
		Power Supply: 220V/110V		
		Heating Power: 2KW		
		Lifting: 6m		
		Temp.Rang: RT~250°C		
		Circulating pump flow: 15L/min		
		Included: 2 stainless steel hoses with outer heat sleeve		
2-10	thermostatic system	Brand: ANTITECK or other	1	Optional(international brand)
		Feature: High and low thermostat circulation, to achieve -20°C to 100°C continuous heating and cooling		
		ItemNo.: DFY-5/20		
		Tank Capacity: 5.0L		
		Power supply: 220V/110V		
		Design Temp.rang: -20°C~105°C		
		Operating temp.Range: -20°C~100°C		
		Heating Power: 1.2kw		
		Cooling Power: 0.6KW		
		Circulating pump flow: 20L/min		

		Included: 2 stainless steel hoses with outer heat sleeve		
		Heat transfer medium not included: recommended to use water or other constant temperature medium		
<b>3、 Vacuum System</b>				
3-1	<b>Two stage rotary vane vacuum pump</b>	Brand: N/A	1	Optional(diffusion pump, molecular pump)
		Item No.: BDR24V		
		Power supply: 220/110V		
		Power: 0.75KW		
		air exhaust: KF25		
		Vent: KF25		
		Speed of air exhaust: 6L/S		
		ultimate pressure: 0.067Pa		
		Rotating Speed: 1400rpm		
		Oil capacity: 1.5L		
		Other Accessories		
		SUS304 anti-oil return high vacuum valve KF25 1pc		
		Oil separator 1pc		
3-2	Sealing gasket		1	
3-3	Metallic Tubing		1	
<b>4、 Control cabinet and frame</b>				
4-1	Control cabinet		1	
4-2	Movable frame		1	
<b>5、 Other Accessories</b>				
5-1	RS clamp	sus304	N/A	
5-2	KFclamp	sus304	N/A	
5-3	Documents and tools	Disassembly tool set& manual	N/A	
The actual object shall be same with the order packing list .				

**Note: Can be customized according to user requirements.**

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<https://antiteck.com/pdf/catalogue/Molecular-Distillation-Equipment.pdf>