



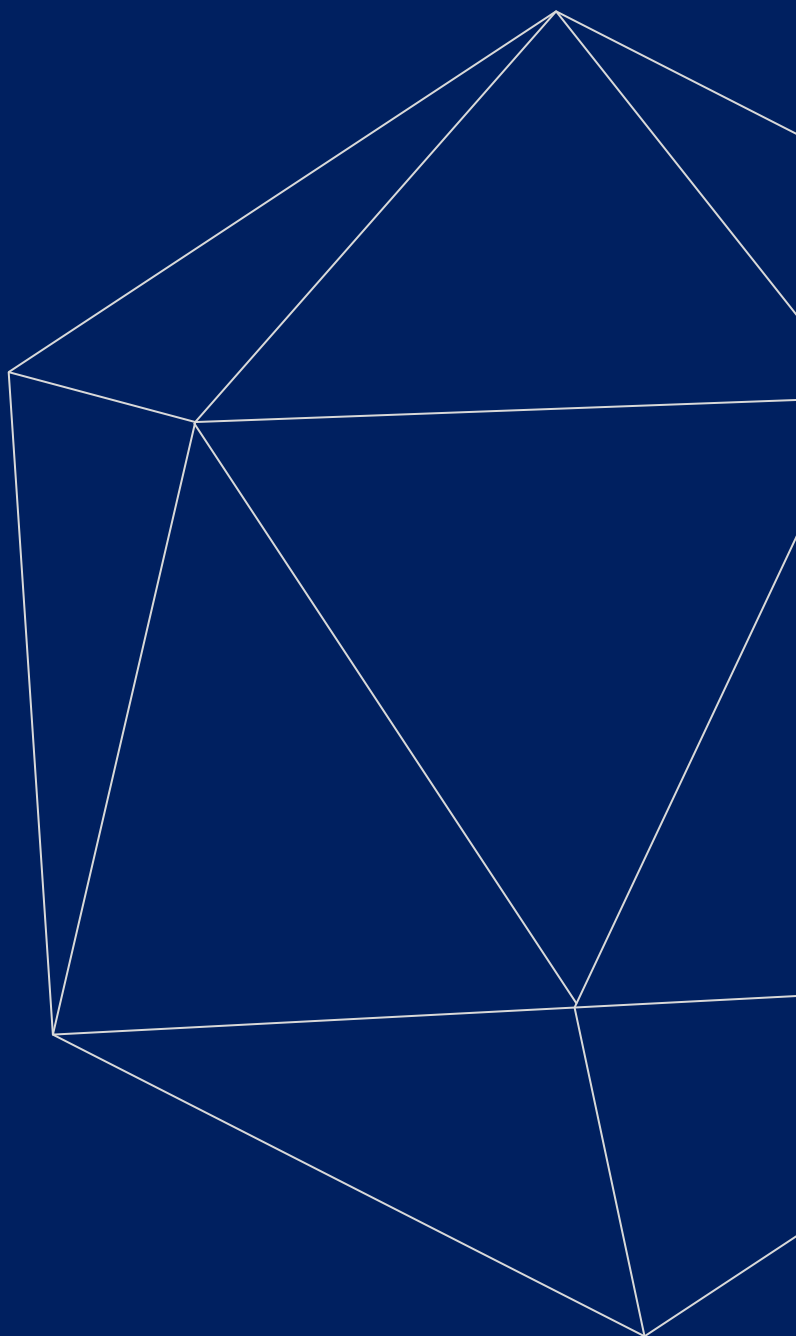
LABORATORY LINES

VACUUM PUMP



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Kalstein Worldwide

With more than 25 years growing with our customers, Kalstein's multiformat and modern content, is now present in more than 10 countries and increasing.





YR05158

KALSTEIN® Water Circulating Vacuum Pump Series YR05156 / YR05157/ YR05158

Kalstein's Water Circulating Vacuum Pump takes circulating water as working fluid to create negative pressure by fluid jet. It can provide negative pressure condition for the processes of evaporation, distillation, crystallization, drying, sublimation, pressure-reducing filtration and so on, particularly be suitable for labs and small scale test of industries such as universities and colleges, scientific research institutes, chemical industry, pharmacy, biochemistry, foodstuff, pesticide, agricultural engineering, biological engineering.

Features:

- ✓ Save water resources.
- ✓ Save more than 35% of electricity than other types of vacuum pump.
- ✓ Specialized fluid muffler can make the vacuum degree higher by reducing the gas in water and make it quieter by reducing the friction between gas and fluid.
- ✓ Equipped with double-tap and double-gauge, it can be used alone or in parallel.
- ✓ Resistant to acid, alkali and solvents.
- ✓ High quality motor with fluorine rubber sealing which can avoid the invasion of corrosive gas.
- ✓ Replace water regularly to keep water clean to ensure perfect vacuum condition.
- ✓ Shorten the water replacing period when it is used to pump corrosive gas.



YR05156 / YR05157

Features:

- ✓ YR05156: Shell, water tank, ejector, tee junction, check valve and suction nozzle are made of PP material. Pump body and impeller (six flowing passages, dual sealing) are made of SUS304.
- ✓ YR05157: Pump body is made of PP material which is more suitable for acid gas. Other components are the same as that of SHB-III.
- ✓ YR05158: Spray Paint Teflon (PTFE) plus FV Rubber on the ejector and suction nozzle. Hose is made of fluorine rubber. Better corrosion resistance and more reliability and longer service life.



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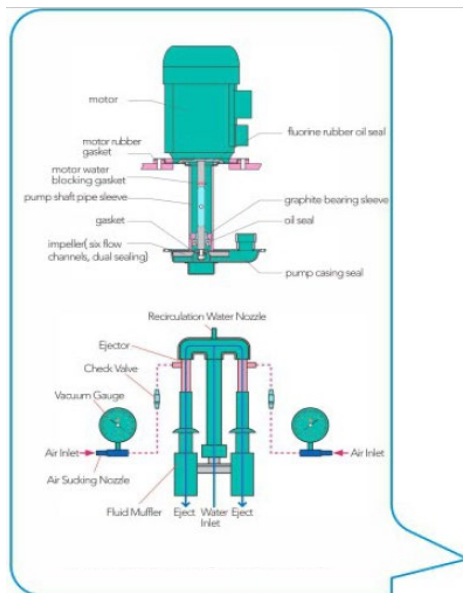


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KALSTEIN® Water Circulating Vacuum Pump

Series YR05156 / YR05157/ YR05158



Parameters per Model

	YR05156 / YR0515	YR05158
Power (W)		180
Power Supply (V/Hz)	110v (1 Phase, 60Hz) or 220-240V (1 phase, 50/60Hz)	1~, 11 0V,60Hz or 220-240V~,50/60Hz
Flow (L/min)		80
Lift (m)		10
Ultimate Vacuum (MPa)	-0.098 (2KPa)	0.098(2KPa)
Single Tap Air Suction Amount		10L/min
Number of Tap		2
Safety		Check Valve
Water Tank Capacity (L)		15
Water Tank Material		PP
Dimensions (mm)		385W*280D*420H
Net Weight (kg)		11



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KALSTEIN® Water Circulating Vacuum Pump

Series YR05159 / YR05160



YR05159



YR05160

Features:

- ✓ Widely applied to research experiments, small scale tests and small scale production with the process of evaporation, distillation, crystallization, drying, sublimation, pressure-reducing filtration.
- ✓ Working principle is the same as that of desk-top vacuum pump.
- ✓ Compared with desk-top vacuum pump, larger air sucking amount can meet negative pressure requirements of large air sucking amount.
- ✓ Five taps can be used alone or in parallel. A five-way adapter can connect five taps to increase air sucking amount, which can meet the experiment requirements of large scale rotary evaporator or reactor.
- ✓ Motor is supplied by famous manufacturer with fluorine rubber sealing which can avoid the invasion of corrosive gas.
- ✓ Water tank adopts polyvinyl chloride (PVC) material. Housing adopts carbon steel and the surface adopts electrostatic spraying.
- ✓ Copper ejector; Tee junction, check valve and suction nozzle are PP material.
- ✓ Pump body and impeller adopt stainless steel 304.
- ✓ Equipped with casters for convenient moving.
- ✓ Replace water regularly to keep water clean to ensure perfect vacuum condition.
- ✓ Shorten the water replacing period when it is used to pump corrosive gas.
- ✓ YR05160 has Spray Paint Teflon (PTFE) on the ejector and suction nozzle. Hose is made of fluorine rubber, and better corrosion resistance and more reliability and longer service life.



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KALSTEIN® Water Circulating Vacuum Pump

Series YR05159 / YR05160



YR05159



YR05160

Parameters per Model	YR05159	YR05160
Power (W)	550	550
Power Supply (V/Hz)	110v (1 Phase, 60Hz) or 220-240V (1 phase, 50/60Hz) 1~, 11 0V,60Hz or 220-240V~,50/60Hz	
Flow (L/min)	100	
Lift (m)	12	
Safety	Check valve, Over-current protection	
Housing Material	Electrostatic Spraying	SUS304
Ultimate Vacuum (MPa)	-0.098(2KPa)	
Single Tap Air Suction Amount (L/min)	10L/min	
Number of Tap	5	
Water Tank Capacity (L)	57	
Water Tank Material	PP	
Dimensions (mm)	450W*350D*820H	
Net Weight (kg)	36	



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KALSTEIN® Diaphragm Vacuum Pump

Series YR05162 / YR05163



It provides negative pressure condition for processes of evaporation, distillation, crystallization, drying, sublimation, reduced pressure filtration etc. It can be used to extract a variety of highly toxic, flammable and explosive, strong acid, and alkali sample.



YR05162



YR05163

Features:

- ✓ After 1500 hours of fatigue testing, it can work stably.
- ✓ Using a new low temperature motor, the pump body temperature is low.
- ✓ New designed structure improve the vacuum and pumping rate significantly.
- ✓ A substitute for water circulating vacuum pump and rotary vane vacuum pump.
- ✓ No water consumption, environmental protection and cleanliness.
- ✓ All parts that contacting gases are made of PTFE + FV rubber with chemical resistance.
- ✓ Valve plate adopts imported materials.
- ✓ Small size, light weight, easy to move, save space.
- ✓ Easy maintenance and repair.
- ✓ Specification

Parameters per Model	YR05162	YR05163
Power (W)	180W	180W
Power Supply (V/Hz)	220-240V ~ , 50Hz	
Rotation Speed	1300rpm	
Inlet Diameter	Φ 6mm	Φ 7mm
Max. Vacuum Degree / Ultimate Pressure	0.0992MPa / 8mbar	0.095MPa / 50mbar
Max. Pumping Speed	28L/min	40L/min
Dimensions (mm)	300W*230D*170H mm	
Net Weight (kg)	10	



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KALSTEIN® Diaphragm Vacuum Pump

Series YR05161 / YR05164



It provides negative pressure condition for processes of evaporation, distillation, crystallization, drying, sublimation, reduced pressure filtration etc. It can be used to extract a variety of highly toxic, flammable and explosive, strong acid, and alkali sample.

Features:

- ✓ A substitute for water circulating vacuum pump and rotary vane vacuum pump.
- ✓ No need of any working medium. No friction between working parts.
- ✓ Vacuum level can be adjusted according to experiment requirements.
- ✓ All parts that contacting gases are made of PTFE + FV rubber with chemical resistance.
- ✓ Valve plate adopts imported materials.
- ✓ Motor is supplied by famous manufacturer.
- ✓ With reasonable design, transmission runs smoothly.
- ✓ With small volume and light weight, easy to move. Saving space.



YR05161



YR05164

Parameters per Model	YR05161	YR05164
Motor Power (W)	180W	300W
Power Supply (V/Hz)	220-240V ~ , 50Hz	
Rotation Speed	1300rpm	
Inlet Diameter	Φ 10mm	
Outlet Diameter	Φ 10mm	
Ultimate Vacuum (MPa)	-0.098(2KPa)	
Pumping Speed	25 (L/min)	45 (L/min)
Dimensions (mm)	300W*230D*150H mm	195W*440D*290H
Net Weight (kg)	10	23



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KALSTEIN® Low-temperature Circulating Pump

Series YR05165



A newly designed product based on Cooling Liquid Circulating Pump and Water Circulating Vacuum Pump, it combined the functions of both pumps and can be used with rotary evaporators to improve distillation efficiency and recovery.

Features:

- ✓ It centralizes vacuum and refrigeration and combines features of cooling liquid circulating pump and vacuum pump. It can provide vacuum condition and cooling condition for rotary evaporator simultaneously.
- ✓ It is equipped with refrigerating circulating system which can keep water temperature around 4°C to guarantee vacuum pump in perfect working condition and ensure the best negative pressure level.
- ✓ Designed with three taps, it can provide negative pressure condition for three equipment at the same time. Equipped with three vacuum gauges, negative pressure level can be monitored visually.
- ✓ Evaporator is made of stainless steel which is corrosion-resistant.



Parameters per Model		YR05165
Temperature Range (°C)		-10~25°C
Ambient temperature (°C)		5 ~25°C
Temperature Stability (°C)		±2 °C
Overall Power (W)		1650
Power Supply (V/Hz)		220-240V (1 Phase, 50Hz)
Bath Capacity (L)		20
Refrigeration Capacity (W)		600~2550
Circulating Pump	Power (W)	280
	Pressure (bar)	1.0
	Flow Rate(L/min)	30
Ultimate Vacuum (MPa)		-0.098(2KPa)
Number of Tap		3
Single Tap Air Suction Amount (L/min)		10
Dimensions (mm)		595W*457D*925H



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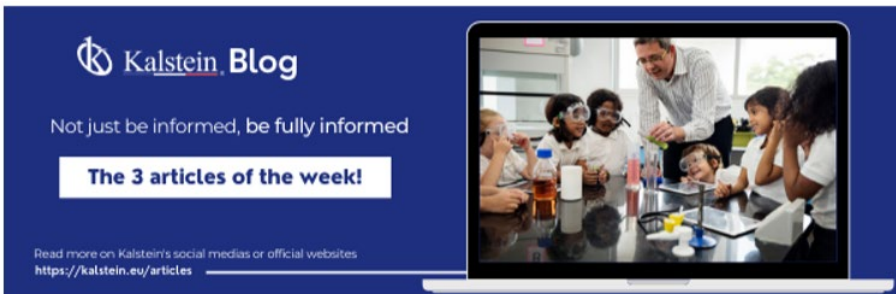
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