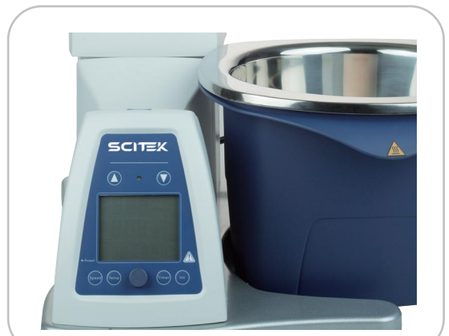
Rotary Evaporator



Advantage

1.Digital LCD display of both rotation speed and heating temperature allows for optimal control of all distillation processes.

2.Automatic motor lift releases the evaporating flask to a safe position in case of power failure.

3.5L heating bath with wide temperature range from room temperature to 180°C Water/oil heating mode can be changed only through a switch.

4.Overheating protection temperature at 220 °C.

5.Boil-dry protection, automatically power off if heating without water/oil in the heating bath.

6.Speed range from 20 to 280rpm, and interval operation in clockwise and anticlockwise directions for drying process.

7.Condenser (cooling surface 1700cm) with excellent cooling effect.

8.Ejection mechanism ensures easy removal of evaporating flask.

9.Patented double spring sealing ring made of PTFE provides an excellent sealing performance.

10.Optional glassware with explosion proof film available.

Specification

Model	RE-100P
Evaporating Flask Volume	50-2000ml(Standard configuration-1000ml)
Receiving Flask Volume	100-2000ml(Standard configuration-1000ml)
Motor Type	Brushless DC motor
Speed Range	20rpm-280rpm
Display	LCD (speed, temperature, time)
Clockwise and Anti-clockwise	Yes
Heating Temperature Range	Room temp. to 180℃
Control Accuracy	water: ±1℃ oil: ±3℃
Heating Power	1300W
Stroke Displacement	automatic 150mm
Timer	Yes
Time Setting Range	1-999min
Interval Time Setting Range	1~999s
Permissible Ambient Temperature	5℃-40℃
Permissible Relative Humidity	80%RH
Protection Class	IP20
USB Interface	Yes
Power	1400 W
Power supply	100V-120V/200V-240V 50Hz/60Hz
Sizes(W×D×H)(mm)	1060×600×520
Shipping size(W×D×H)(mm)	1100×600×640
N.W./G.W. (kg)	28/36
Supporting products	RE-100P+ Diaphragm Vacuum Pump VP-410+Low Temperature Circulator LTC-P5+Vacuum Controller VC100

Rotary Evaporator

Rotary Evaporator

Advantage

1.5L heating bath with a wide temperature range (room temp.to180 °C).

2.Independent temperature control makes it can be used separately. Water/oil heating mode can be changed just through a switch.

3.Manual lift combined with auxiliary lift for precise positioning of the glassware.

4.PID control ensures high temperature accuracy at ±1°C (water).

5.Overheating protection temperature at 220°C.

6.Boil-dry protection, automatically power off if heating without water/oil in the heating bath.

7.Speed range from 20 to 200rpm, timing interval operation in clockwise and anticlockwise directions for drying process.

8.Condenser (cooling surface 1200/1700 cm2 for selection), speeding up the flow rate of liquid with excellent cooling effect.

9.Ejection mechanism ensures easy exchange of evaporating flask.

10.Adjustable immersion angle.

11.Double spring sealing ring which is made of PTFE provides an excellent sealing performance.

12.Compatible with the entire range of RE100-Pro glassware.

Rotary Evaporator

Specification

Model	RE-100S
Motor Type	Brushless DC motor
Speed Range	20-200rpm
Display	LED (speed, temperature, time)
Clockwise and Anti-clockwise	Yes
Heating Temperature Range	Room temp. to 180℃
Control Accuracy	water: ±1℃ oil: ±3℃
Heating Power	1010W
Stroke Displacement	Manual 110mm + auxiliary100mm
Interval Time Setting Range	1~999s
Size (D×W×H)	Main Unit: 440×320×450mm
	Heating Bath: 300x300x240mm
Weight	Main Unit: 7 kg
	Heating Bath: 3 kg
Permissible Ambient Temperature	5~40℃
Permissible Relative Humidity	80%RH
Protection Class	IP20
USB Interface	Yes
Power	1100W
Power supply	100V~120V/200V~240V 50Hz/60 Hz
Shipping size(W×D×H)(mm)	950×650×700(three pieces)
G.W. (kg)	34(three pieces)
Supporting products	RE-100S+ Diaphragm Vacuum Pump VP-410+Low Temperature Circulator LTC-P5+Vacuum Controller VC100

Rotary Evaporator

Advantage

1.Large LCD digital display with heating temperature, rotation speed, clockwise & anticlockwise and time information

2.One-click automatic motor lifting (stroke 180mm), smooth and silent

3.Water/ oil heating bath with wide temperature range from RT to 180 °C

4.Speed range from 10 to 150rpm, and interval operation in clockwise and anticlockwise directions for drying process

5.Two-section vertical triple coil condensing tube with large area and strong evaporation capacity ensuring high-efficiency sample recovery

6.The connector device allows for easy and quick installation of the evaporating flask.

7.PTFE double sealing ring with excellent sealing performance

8.Switch valve for continuous collection without compromising the system vacuum and solvent distillation

Specification

Model		RE-200P
Performance	Temperature range	Room temp. -180℃ (both water and oil)
	Control accuracy	Water: ±1℃ Oil: ±3℃
	Rotation speed	10rpm~150rpm
	Evaporation capacity	Max. 4.0L/h (water vapor volume)
	Ultimate vacuum	< 2.6 hPa
Function	Temperature control method	Micro processer PID control
	Display	LCD (temperature/speed/clockwise and Anti-clockwise/time)
	Stroke displacement	Automatic 180mm
	Safely features	Motor over-current protection, Residual Current Device, lifting overload protection, Boil-dry protection, over-temperature protection
Constitute	Sample flask	Round flask 20L
	Receiving flask	Round flask 10L with drain value
	Condenser	Two-section vertical triple serpentine condenser, cooling surface 1.2m²
Specifications	Heating bath size	Φ450mm×240mm
	Takeover caliber	Cooling/suction nozzle outer diameter 16mm, vacuum pump nozzle outer diameter 16mm
Power supply		220V,50Hz/60Hz
Size (D×W×H)		1130×600×1200
Shipping size(W×D×H)(mm)		1160×770×1800
G.W. (kg)		180

Chemical Resistant Vacuum Pump

Advantage

1.Maximum Vacuum: 13mbar.

2.Work Mode: Continuous Operation.

3.Nozzle Size: 8mm, Power: 95W.

4.Motor Speed: 1450rpm.

5.Flow Rate:

mbar 1000 | 880 | 750 | 600 | 480 | 280

L/min 25 | 22 | 20 | 12 | 7.5 | 5

6.Noise: 50dB.

Specification

Model	VP-410	
Power	115V/ 60Hz	220V/ 50Hz
Max. power (W)	90	95
Max. current (A)	1.4	0.5
Max. vacuum (mbar)	13	
Max. Flow Rate(L/min)	25	25
Motor Speed (rpm)	1700	1450
Work Mode	Double	
Outlet (mm)	10	
Noise Level (dB)	50	
Order No.	169410	
Sizes(W×D×H)(mm)	460×360×260	
Shipping size(W×D×H)(mm)	470×310×300	
N.W./G.W. (kg)	8/9	

Mini Low Temperature Circulator

Advantage

1.Cryogenic circulators ensure adaptation to different laboratory environments for efficient cooling processes.

2.LED display provides clear and accurate temperature readings.

3.The circulators provide powerful cooling performance, making them suitable for a variety of applications, including sample preservation and cryogenic reactions.

4.Efficient pump performance ensures efficient circulation of temperature controlled fluids to optimise heat exchange.

5.Durability and flexibility are ensured by utilizing silicone tubing to cool the water, allowing for reliable and consistent fluid circulation during the temperature control process.

6.The circulator offers a flexible optional RS232/485 communication interface for seamless integration with other laboratory equipment to enhance overall system control.

Specification

Model	LTC-P5
Temperature Range	-20°C to Ambient Temp.
Temperature Display	LED Display, Accuracy 0.1 °C
Temperature Stability	±0.3°C
Refrigerating Capacity	700W
Pump Pressure	0.3bar
Pump Suction	0.2bar
Pump Flow Max.	22L/Min
Tank Size	4.5L
Cooling Water Tubing	Silicone
Communication Interface	Optional RS232/485
Low-level Alarm	Optional
Heating Function	Optional
Operating Environment	5-32 °C
Outer Connected Size	Standard 8mm insulation tube
Power supply	220V/50Hz
Sizes(W×D×H)(mm)	430×230×460
Shipping size(W×D×H)(mm)	450×250×470
N.W./G.W. (kg)	28/33

Vacuum Controller

Advantage

1.Wide range of measurement and control, 1-1,000mbar

2.Two control modes available Single-point control and programmed control

3.Stores up to 5 programs, each containing up to 5 steps of programming control

4.Large TFT touch screen display control provides easy operation

5.All parts in contact with vapor or liquid are made of PTFE, ceramics or other high-performance materials which effectively resists corrosion caused by organic solvents, water, acid and alkali

6.Built-in vent valve can feed inert gas into system equipment

7.One-click decompression allows easy installation and dismantling of vacuum system

8.Can be connected with pump power control for temporary shutdown of pump power supply after reaching stable degree of vacuum for energy conservation and environmental protection.

9.Can also be operated in the normally open status of pump

10.Reliable and functional design to fulfill essential needs of precise vacuum regulation

Specification

Model	VC100
Vacuum setting range	1-1000mbar
Vacuum measurement range	1-1000mbar
Control operation mode	Single-point control mode, Programmed control mode
Control program	Can store up to 5 programs, each containing 5-step control (capable to set the degree of vacuum and time)
Setting method	Touch screen setting
Display	5" TFT
Sensor overload pressure	1,500 mbar
Connector diameter	8mm
Materials in contact with vapor	PTFE, PP, silicone and ceramics
Power	600 W
Compatible conditions with vacuum pump	power of 50Hz vacuum pump ≤400W power of 60Hz vacuum pump ≤500W
Power supply	110V-240V,50Hz/60Hz
Operating environment	10℃～40℃, ≤80%RH
Sizes(W×D×H)(mm)	310×270×290
Shipping size(W×D×H)(mm)	470×300×420
N.W./G.W. (kg)	4/7

Rotary Evaporator

Application

RE-2000 series motor features a seamless 0-180RPM speed control and automatic lifting capability. Crafted from sleek and secure aluminum alloy, the main body exudes both aesthetics and safety. Its rotating mechanism integrates dependable micro motors, velocity regulators, and advanced circuit controls. Enabled by electronic speed regulation, it maintains steady rotation within the 0-180RPM spectrum.

Advantage

1.Built-in vacuum controller, High vacuum performance.

2.PTFE sealing.

3.Adjust the ascending or descending of rotary flask automatically.

4.Digital display and control.

5.Easy assembling design: To be assembled within 30 minutes.

6.Double layer cooling coils for improved condenser performance.

7.High quality borosilicate glass 3.3 with excellent physical and chemical properties.

8.Cost-saving modular design and can be customized by clients' requirements.

Specification

Model	RE-A2000	RE-B2000	RE-C2000
Glass material	GG-17		
Stent material	Aluminium alloy		
Bath material	Teflon composite pot, fully enclosed heating		
Rotary flask volume	0.5-2L 24# standard mouth		
Collecting flask volume	1L 35# ball mill mouth		
Rotary power	40W		
Rotary speed	0-180rpm		
Heating power	1.5 kW		
Temperature control of bath	Room Temperature~99		
Temperature precision	±1℃		
Elevating power	15W		
Elevating stroke	120 mm		
Voltage/frequency	220V/50Hz		
Sizes(W×D×H)(mm)	660×420×670		
Shipping size(W×D×H)(mm)	630×620×540		
N.W./G.W. (kg)	23/26		
Supporting products	RE-A2000/B2000/C2000+Water Circulating Vacuum Pump VP-IIIA+Low Temperature Circulator LTC-10		

Rotary Evaporator

Advantage

1.PTFE sealing.

2.Adjust the ascending or descending of rotary flask automatically.

3.Digital display and control.

4.Easy assembling design: To be assembled within 30 minutes.

5.Double layer cooling coils for improved condenser performance.

6.High quality borosilicate glass 3.3 with excellent physical and chemical properties.

7.Cost-saving modular design and can be customized by clients' requirements.

Specification

Model	RE-A3000	RE-B3000	RE-C3000
Glass material	GG-17		
Stent material	Aluminium alloy		
Bath material	Teflon composite pot, fully enclosed heating, 250mm×130mm		
Rotary flask volume	3L, standard mouth		
Collecting flask volume	2L, ball mill mouth		
Rotary power	40W		
Rotary speed	0~180rpm		
Heating power	1.5 kW		
Temperature control of bath	Room temperature~99℃		
Temperature precision	±1℃		
Elevating power	15W		
Elevating stroke	120 mm		
Voltage/Frequency	220V/50Hz		
Sizes(W×D×H)(mm)	660×420×670		
Shipping size(W×D×H)(mm)	630×560×540		
N.W./G.W. (kg)	25/30		
Supporting products	RE-A3000/B3000/C3000+Water Circulating Vacuum Pump VP-IIIA+Low Temperature Circulator LTC-10		

Rotary Evaporator

Advantage

1.The components in contact with materials are crafted from high borosilicate glass (with an expansion coefficient of 3.3) and PTFE materials, ensuring stability and minimal reactivity.

2.Stand features cold plate anti-corrosive spray and aluminum alloy, while the bath is constructed with 304 stainless steel.

3.4A PTFE and fluororubber compound sealing system is used for effective sealing.

4.Vacuum pressure gauge displays real-time vacuum levels through a pointer.

5.Piston-type feeding valve is equipped with a PTFE extension tube for continuous feeding under vacuum conditions.

6.A vertical double-layer serpentine coil functions as the condenser.

7.Large LCD display enables simultaneous control of rotation, heating, and lifting.

8.Brushless deceleration booster motor powers the rotary and lifting mechanisms, ensuring spark-free and low-noise operation.

9.A thermostat-controlled bath incorporates a PT100 sensor and stainless steel probe at its base.

10.The bath can be electrically lifted and is insulated with a silicone cover for heat protection.

11.Dual fuses offer safety protection for both rotation and heating.

12.Collection bottle is outfitted with a glass and PTFE independent discharge valve at the bottom.

13.A water discharge valve at the bath's base facilitates liquid removal.

14.A vacuum switching valve allows continuous material collection and discharge without disrupting system vacuum or solution distillation.

15.Safety measures include over-temperature protection and automatic power-off when the water level in the heating bath is too low or if a sudden power outage occurs during operation.

Specification

Model	RE-1005
Voltage/Frequency	220V 50Hz/110V 60Hz
Total Power	2100W
Rotary motor power	60W
Lifting motor power	40W
Heating power	2000W
Vacuum	0.095Mpa
Rotary flask volume	5LΦ230mm/Φ80 flange port
Collecting flask volume	3LΦ195mm/upper Φ50 flange port×Φ35 flange port×2 pcs × lower Φ50 flange port
Rotary speed	0-120rpm/min
Temperature control range	Room temperature-180℃
Temperature control accuracy	±1℃
Bath lifting stroke	140mm
Condenser Size	Φ120×600H(mm) side Φ50 flange port × lower Φ50 flange port
Condensing area	0.5㎡
Gas cylinder	Left Φ35 flange port, side Φ50 flange port, rightΦ50 flange port
Material feeding valve	Φ35 flange port, glass + PTFE valve, material feeding valve (pagoda joint) with 12mm outer diameter
Releasing valve	Φ35 flange port×2, glass + PTFE valve, releasing valve (pagoda joint)with 12mm outer diameter
Material discharging valve	Φ50 flange port, side discharging valve (pagoda joint) with 20mm outer diameter, 260mm from the ground
Vacuum nozzle	Pagoda joint with 10mm outer diameter
In and out circulating nozzle of condenser coil	Pagoda joint with 16mm outer diameter
Bath Size/weight	Φ295×175H(mm) about 12L
Sizes(W×D×H)(mm)	980×480×1260mm
Shipping size(W×D×H)(mm)	800×450×1090mm wooden package
N.W./G.W. (kg)	46/68
Supporting products	RE-1005+Water Circulating Vacuum Pump VP-IIIA+Low Temperature Circulator LTC-10

Rotary Evaporator

Advantage

1.The components in contact with the material are crafted from high borosilicate glass (with an expansion coefficient of 3.3) and PTFE materials, ensuring stable performance and minimal reactivity with the substances.

2.Stand is composed of cold plate anti-corrosive spray and aluminum alloy material, while the bath is constructed from 304 stainless steel.

3.Sealing system employs a compound sealing of PTFE and fluororubber.

4.An oily vacuum pressure gauge provides real-time vacuum indication through a pointer.

5.Piston-type feeding valve is fitted with a PTFE extension tube, enabling continuous feeding to the evaporation bottle under vacuum conditions.

6.A vertical three-layer serpentine coil functions as the condenser, featuring both main and auxiliary condensing for enhanced efficiency.

7.Large LCD display allows simultaneous control of rotation, heating, and lifting.

8.Brushless deceleration booster motor is utilized as the rotary motor, ensuring spark-free and low-noise operation. The lifting motor also employs the deceleration booster motor.

9.A thermostat-controlled bath incorporates a PT100 sensor and stainless steel probe at the bath's base.

10.Bath can be electrically lifted, and a silicone cover offers heat insulation and anti-scalding protection.

11.Dual fuses provide safety protection for both rotation and heating.

12.Collection bottle features a lower discharging port connected to a glass and PTFE independent discharge valve.

13.A water discharge valve at the bottom of the bath facilitates liquid removal.

14.A vacuum switching valve enables continuous material collection and discharge without affecting system vacuum or solution distillation.

15.An over-temperature protection function automatically powers off the machine when the actual temperature exceeds the setting temperature by 5°C.

16.An anti-drying function automatically powers off the machine when the water level in the heating bath falls below the heating tube.

17.In case of a sudden power interruption during operation, the machine will automatically cease heating and resume when power is restored.

Specification

Model	RE-1050
Voltage/Frequency	220V 50Hz/110V 60Hz
Total Power	6640W
Rotary motor power	100W
Lifting motor power	40W
Heating power	6500W
Vacuum	0.095Mpa
Rotary flask volume	50LΦ470mm/Φ125 flange port
Collecting flask volume	20LΦ355mm/upper Φ60 flange port×Φ35 flange port×2pcs×lower Φ50 flange port
Rotary speed	0-120rpm/min
Temperature control range	Room temperature-180℃
Temperature control accuracy	±1℃
Bath lifting stroke	215mm
Condenser Size	Main condenser Φ160×835H(mm), upper Φ60 flange port, lower Φ80 flange port
	Auxiliary condenser Φ160×530H(mm), upper Φ80 flange port, lower Φ60 flange port, side Φ60 flange port
Condensing area	1.44(0.95+0.49)m³
Gas cylinder	Left Φ35 flange port, upper Φ35 flange port, side Φ60 flange port, right Φ70 flange port
Material feeding valve	Φ35 flange port, glass + PTFE valve, material feeding valve (pagoda joint) with 12mm outer diameter
Multi-function port	Φ35 flange port, glass + PTFE valve, glass valve (pagoda joint) with 12mm outer diameter
Releasing valve	Φ35 flange port×2pcs, glass + PTFE valve, releasing valve (pagoda joint) with 12mm outer diameter
Material discharging valve	Φ50 flange port, side discharging valve (pagoda joint) with 20mm outer diameter, 300mm from the ground
Vacuum nozzle	Φ60 flanged glass nozzle（pagoda joint)with 10mm outer diameter
In and out circulating nozzle of condenser coil	Pagoda joint with 16mm outer diameter
Bath Size/weight	Φ550×320H(mm) about 76L
Sizes(W×D×H)(mm)	1390×700×2300
Shipping size(W×D×H)(mm)	980×520×1190mm wooden package
N.W./G.W. (kg)	97/142

Rotary Evaporator

Advantage

1.Components in contact with the material are constructed from high borosilicate glass (with an expansion coefficient of 3.3) and PTFE materials, ensuring stability and minimal reactivity.

2.The frame is made of cold plate anti-corrosive spray + aluminum alloy, and the bath is of 304 stainless steel.

3.Sealing system employs PTFE + fluororubber compound sealing.

4.Real-time vacuum is indicated by an oily vacuum pressure gauge with a pointer.

5.Piston-type feeding valve is encased in a PTFE extension tube, enabling continuous feeding to the evaporation bottle under vacuum.

6.An upright double-layer serpentine coil functions as the condenser, with both main and auxiliary condensing.

7.A large LCD display allows simultaneous control of rotation, heating, and lifting.

8.Brushless deceleration booster motors are used for both rotary and lifting functions, ensuring low noise and no spark.

9.Thermostat-controlled bath incorporates a PT100 sensor + stainless steel probe at the base.

10.Bath can be electrically lifted, with a silicone cover providing heat insulation and anti-scalding protection.

11.Dual fuses offer rotating and heating double-fuse safety protection.

12.Collection flask features a lower discharging port equipped with a glass + PTFE independent discharge valve.

13.A water discharge valve at the bath's bottom facilitates liquid removal.

14.A vacuum switching valve allows continuous material collection and discharge without affecting system vacuum or solution distillation.

15.An over-temperature protection function automatically powers off the machine when the actual temperature exceeds the setting temperature by 5°C.

16.An anti-drying function powers off the machine when the water level in the heating bath falls below the heating tube.

17.In case of a sudden power interruption during operation, the machine will automatically stop heating and resume when power is restored.

Specification

Model	RE-1010
Voltage/Frequency	220V 50Hz/110V 60Hz
Total Power	3100W
Rotary motor power	60W
Lifting motor power	40W
Heating power	3000W
Vacuum	0.095Mpa
Rotary flask volume	10LΦ280mm/Φ95 flange port
Collecting flask volume	5LΦ230mm/upper Φ60 flange port×Φ35 flange port×2 pcs × lower Φ50flange port
Rotary speed	0-120rpm/min
Temperature control range	Room temperature-180℃
Temperature control accuracy	±1℃
Bath lifting stroke	190mm
Condenser Size	Main condenser Φ120×620H(mm), upper Φ60 flange port, lower Φ80 flange port
	Auxiliary condenser Φ135×475H(mm), upper Φ80 flange port, lower Φ60 flange port, side Φ60 flange port
Condensing area	0.51(0.33+0.18)㎡
Gas cylinder	Left Φ35 flange port, upper Φ35 flange port, side Φ60 flange port, right Φ60 flange port
Material feeding valve	Φ35 flange port, glass + PTFE valve, material feeding valve (pagoda joint) with 12mm outer diameter
Temperature measuring port	Φ35 flange port, glass + PTFE valve, glass valve (pagoda joint) with 12mm outer diameter
Releasing valve	Φ35 flange port×2, glass + PTFE valve, releasing port (pagoda joint)with 12mm outer diameter
Material discharging valve	Φ50 flange port, side discharging valve (pagoda joint) with 20mm outer diameter, 210mm from the ground
Vacuum nozzle	Φ60 flanged glass nozzle（pagoda joint)with 10mm outer diameter
In and out circulating nozzle of condenser coil	Pagoda joint with 16mm outer diameter
Bath Size/weight	Φ350×220H(mm) about 21L
Sizes(W×D×H)(mm)	1130×470×1940mm
Shipping size(W×D×H)(mm)	980×520×1190mm wooden package 0.61m³
N.W./G.W. (kg)	64/101

Water Circulating Vacuum Pump

Advantage

1.Prominent water-saving effect: Water circulates within the system, allowing for reuse of water added to the tank.

2.Versatile functionality: Apart from providing a vacuum environment, this machine facilitates external circulation for cooling reactions.

3.Compact and portable: Lightweight and easily movable, it sits conveniently on workbenches, featuring a user-friendly live upper tank cover for easy maintenance.

4.Dual independent air extraction nozzles: Each fitted with a vacuum gauge for clear observation of vacuum levels.

5.Check valve for prevention: A check valve on the suction line prevents backflow of circulating water into vacuumed equipment during unexpected stops.

6.Corrosion-resistant and pollution-free: Stainless steel water pump components resist corrosion and eliminate lab pollution.

7.Stable and quiet operation: Ensures reliable performance with minimal noise.

8.Application: Widely utilized for evaporation, distillation, crystallization, filtration, and more, making it an indispensable lab tool in academia, medicine, chemical industry, food processing, and beyond.

Specification

Model	VP-IIIA
Tapping capacity	10L/MIN
Volume	15L
Flow	60L/MIN
Lift	8M
Material	Anti-corrosive
Tap	2
Power	180W
Power supply	220V
Sizes(W×D×H)(mm)	430×340×500
Shipping size(W×D×H)(mm)	500×380×550
N.W./G.W. (kg)	9/10

Low temperature cooling liquid circulator

Advantage

1.Precise temperature control range to meet different experimental needs

2.Highly efficient cooling capacity, able to quickly reduce the temperature of the sample or equipment

3.Stable performance and reliable operation to ensure the accuracy of experimental data

4.A variety of safety protection functions to protect the equipment and the user's safety

Low temperature cooling liquid circulator

Specification

Model	LTC-10	LTC-30	LTC-40I
Usage temperature range	-10 ℃~room temperature	-30 ℃~room temperature	-40℃ ~room temperature
Environment temperature	5 ~35 ℃		
Environment humidity	≤70％ ventilation		
Power supply	Single phase 220V/50HZ	Single phase 220V 50Hz/110V 60Hz	Three phase 380V/50HZ
Safety protection	Delay, over-current, overheat	Delay, over-current, overheat	Delay, overcurrent, overheating, phase sequence, phase loss protection
Display	LCD display, key operation		
Temperature control accuracy	±0.1℃		
Sensor	PT100		
Total power	652W	2485W	7990W
Compressor	Specification Small 1P	Specification 3P	Specification 10P
	Quantity 1	Quantity 1	Quantity 1
	Power 500W	Power 2205W	Power 7350W
	Cooling capacity 1550W	Cooling capacity 6972W	Cooling capacity 23240W
Circulation pump	Power 100W	Power 100W	Power 280W
	Lift 4-6M	Lift 4-6M	Lift 10-12M
	Flow 20-40L/min	Flow 20-40L/min	Flow 30-50L/min
	Pressure ≤0.4MPa	Pressure ≤0.4MPa	Pressure ≤0.4MPa
Air-cooling condenser	Power 52W	Power 180W	Power 360W
	Heating exchange area 4.2m²	Heating exchange area 21.2m²	Heating exchange area 39m²
	Air volume 760m³/h	Air volume 3400m³/h	Air volume 6800m³/h
Refrigerant	R134A	R404A	R22
Condensation coil	Φ8 copper tube plated by nickel	Φ16 copper tube plated by nickel	Φ19 copper tube plated by nickel
Equipment material	Cold plate spray, anti-corrosion		
Water tank Size&volume	Φ220×180H(mm) 6.8L	Φ450×350H(mm) About 55L	Φ500×500H(mm) 98L
Available size in water tank	Φ185mm	Φ350mm	Φ390mm
Cover opening	Φ200mm	Φ350mm	Φ350mm
Outer circulation interface	Pagoda joint with Φ12mm outer diameter (facing the left side of the equipment)	Pagoda joint with Φ16mm outer diameter (facing the left side of the equipment)	Pagoda joint with Φ19mm outer diameter (facing the left side of the equipment)
Sizes(W×D×H)(mm)	423×485×(760+ 400)mm	795×770×(1150+pole 500)mm	845×1100×(1365+pole 500)mm
Shipping size(W×D×H)(mm)	590×430×880mm carton package 0.21m³	590×430×880mm carton package 0.21m³	590×430×880mm carton package 0.21m³
N.W./G.W. (kg)	56/58	119/162	250/290

Rotary Evaporator

CE

RE-201
RE-301
RE-501

RE-1000
RE-2000
RE-5000

Advantage

1.Electronic stepless speed controll

2.explosion-proof function is optional

Specification

Model	RE-201	RE-301	RE-501	RE-1000	RE-2000	RE-5000
Rotary Bottle	1L 24#(standard mouth)	3L(flange φ50)	5L(flangeφ50)	10 L(flange φ95)	20L(flange φ95)	50L(flange φ125)
Collecting Bottle	1L 35# (ball mill mouth)	2L 35#(ball mill mouth)	3L 35# (ball mill mouth)	5L (flange φ60-50)	10L (flange φ60)	20L (flange φ60-50)
Condenser	Vertical φ85×430mm,35#(ball mill mouth)	Vertical φ100×530mm	Vertical φ100×530mm	Vertical three backflow φ120×620mm(-main),φ135×475mm(SUB)	Vertical three backflow φ130×700mm(-main),φ160×530mm(SUB)	Vertical three backflow φ160×835mm(-main),φ160×530mm(SUB)
Charging Valve	19#(standard size)			34#(standard size)		40#(standard size)
Rotary Speed	0-120rpm			0-110 rpm		
Vacuum	0.098 Mpa					
Temp. Range	RT~400℃					
Temp. Accuracy	±1℃					
Stroke Height	120mm			180mm		
Rotary Power	40W			120W		180W
Heating Power	1.5KW	2KW		3KW	5KW	8KW
Shelf Material	Stainless steel			Coating anticorrosive		
Plate size	280×330mm	350×330mm		534×504mm	474×474mm	550×320mm
Power Supply	AC220V±10%,50/60Hz;110V,60Hz				AC220V±10%,50/60Hz	AC220V±10%,50/60Hz
Standard Accessory	1L Rotary bottle×1,1L Collecting bottle×1	3L Rotary bottle×1,2L Collecting bottle×1	5L Rotary bottle×1,3L Collecting bottle×1	10L Rotary bottle×1,5L Collecting bottle×1	20L Rotary bottle×1,10L Collecting bottle×1	50L Rotary bottle×1,20L Collecting bottle×1
Optional Accessory	Transparent bath cover, Explosion-proof transducer	Explosion-proof transducer, Explosion-proof motor EX40W		Explosion-proof transducer, Double collection bottle,Auto-lifting, Explosion-proof motor EX120W		
	Vacuum pump, Recirculating chiller					
Chamber Material	SS 245×140mm	SS 265×160mm	SS 280×170mm	SS 350×220mm	SS 450×260mm	SS 550×320mm
Sizes(W×D×H)(mm)	700×320×785	740×330×970	760×320×1030	930×560×1900	1150×600×2150	1300×730×2300
Shipping size(W×D×H)(mm)	600×470×480	1000×630×480		1330×790×760	1370×700×730;690×690×800	1450×830×730;840×740×920
N.W./G.W. (kg)	17/22	24/40	25/42	99/110	120/140	170/190
Supporting products	RE-201+Water Circulating Vacuum Pump(VP-DIII)+Low temperature cooling liquid circulator(LTC-20I)	RE-301/501+Water Circulating Vacuum Pump(VP-DIII)+Low temperature cooling liquid circulator(LTC-20)		RE-1000/2000+Water Circulating Vacuum Pump(VP-95B)+Low temperature cooling liquid circulator(LTC-40)		RE-5000+Water Circulating Vacuum Pump(VP-95B)

Rotary Evaporator

Advantage

1.Electronic stepless speed controll

2.explosion-proof function is optional

Specification

Model	RE-50A	RE-50C	RE-5300
Rotary Bottle	1 L 24#(standard size)		
Collecting Bottle	0.5 L 24#(standard size)		
Condenser	Vertical φ85×450mm, 29#(standard size)		
Charging Valve	19#(standard size)		
Rotating Speed	0~120 rpm		
Vacuum	-0.098 Mpa		
Temp. Range	RT~99 ℃		
Temp. Accuracy	±1℃		
Stroke Height	150 mm		
Rotating Power	30W		
Heating Power	1KW		
Chamber Material	SS φ220×120mm		SS φ245×140mm
Shelf Material	Powder coating anticorrosive		
Power Supply	AC220V±10%,50/60Hz;110V,60Hz		
Standard Accessory	1000ml rotary bottle×1, 500ml recycling bottle×1		
Optional Accessory	RT~400℃ Oil bath, Transparent bath cover, Vacuum pump, Recirculating chiller		
Sizes(W×D×H)(mm)	650×440×1000mm		650×440×1010mm
Shipping size(W×D×H)(mm)	610×470×480mm		
N.W./G.W. (kg)	15/20	16/21	16/21
Supporting products	RE-50A/50C/5300+Water Circulating Vacuum Pump(VP-DIII)+Low temperature cooling liquid circulator(LTC-20I)		

Water Circulating Vacuum Pump

Application

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.

Advantage

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.

Specification

Model	VP-DIII	VP-95B
Speed of Evacuation	10L/min	
Pump Head	4	5
Vacuum	-0.098 Mpa	\
Pump Flow	40L/min	80L/min
Pump Lift	12m	
Material	Anti-corrosion	Anti-corrosion or Stainless Steel
Power(W)	370	
Capacity(L)	15	50
Power Supply	AC220/110V±10%,50/60Hz	
Sizes(W×D×H)(mm)	400×280×420	450×340×840
Shipping size(W×D×H)(mm)	435×340×500	520×430×900
N.W./G.W. (kg)	12/18	30/37

Low temperature cooling liquid circulator

CE

Advantage

1.The LED display visually and accurately represents the circulator's operating temperature. Users can easily monitor and adjust settings.

2.Circulator provides sufficient liquid cooling capacity to accommodate a variety of laboratory applications without compromising efficiency.

3.Tank is made of 304 stainless steel for corrosion resistance and long service life.

4.Using R134A as the refrigerant, the circulator meets environmental standards and provides a more environmentally friendly cooling solution.

Specification

Model	LTC-20I
Temp. Display	LED display
Tank Volume	4L
Matching Reaction Kettle(Steam)	1~2L
Tank Material	304 Stainless Steel
Tank Size	250×130×130mm
Temp. Control Accuracy	±0.1 °C
Display Temp. Resolution	0.1°C
Pump Lift	1.5~2.7m
Circulating Pump Flow	8~16L/min
Refrigerant	R134A
Refrigerating Capacity	1550~500W
Pressure	≤0.4Mpa
Ambient Relative Humidity	(60~80%)Ventilation
Instrument Temp. Control Range	-20°C~RT
Optimum Ambient Temp.	5~35°C
Unload Min Temp.	-20°C
Circulation Pump Power	100W
Circulating Pump	Magnetic pump
Circulating Water Mouth Interface	Outer diameter 11mm/Inner diameter7mm
Sensor	PT100
Power Supply	AC220V±10%, 50/60HZ
Sizes(W×D×H)(mm)	530×260×570
Shipping size(W×D×H)(mm)	590×320×560
N.W./G.W. (kg)	28/30

Advantage

Uses a sealed compressor for cooling. Copper coils in the inner tank wall circulate refrigerant (Freon) to chill the contents. It can cool reactor jackets, condensing coils, or directly immerse materials. The lower outlet connects to the reactor/condenser inlet, forming a circulation loop.

Specification

Model	LTC-20	LTC-40
Temp. Display	LED display	
Tank Volume	6.8L	20L
Matching Reaction Kettle(Steam)	1~5L	20L
Tank Material	201 Stainless Steel	
Tank Size	φ220×180mm	φ300×300mm
Temp. Control Accuracy	±0.1 °C	
Display Temp. Resolution	0.1°C	
Pump Lift	4~6m	
Circulating Pump Flow	20~40L/min	
Refrigerant	R22	
Refrigerating Capacity	2324~735W	6972~2205W
Pressure	≤0.4Mpa	
Ambient Relative Humidity	(60~80%)Ventilation	
Instrument Temp. Control Range	-20°C~RT	-40°C~RT
Optimum Ambient Temp.	5~35°C	
Unload Min Temp.	-20°C	-42°C
Circulation Pump Power	100W	
Circulating Pump	Fully-closed &No-leaked special pump	
Sensor	PT100	
Coil Diameter	φ185mm	φ255mm
Opening Size	φ200mm	φ250mm
Power Supply	AC220±10%,50/60Hz； AC110±10%, 60Hz	AC220V±10%, 50/60HZ
Sizes(W×D×H)(mm)	490×430×(760+410)	600×680×(980+500)
Shipping size(W×D×H)(mm)	600×435×890	720×600×1200
N.W./G.W. (kg)	50/70	105/135