Infitek

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THERMOSTATIC BATHS AND CIRCULATORS

COOLING CIRCULATOR
RECIRCULATING CHILLER
LOW TEMPERATURE CIRCULATOR
REFRIGERATED CIRCULATOR
REFRIGERATED/ HEATING CIRCULATOR, RECH SERIES

VERSION.2025

Cooling Circulator

RCHL-L Series

Feature

- Built-in new generation temperature control program to ensure stable operation of the equipment.
- With external circulating pump, can be established the second constant temperature field.
- Fully enclosed compressor cooling system withoverheating and over current protection.
- Intelligent PID control, continuous work, easy operation.
- Withtiming shutdown function, shutdown time can be arbitrarily setwithin 0 to 999 hours.

Specifications

Model	Temp.Range	Volume	Cooling Consumption	Whole Consumption	Temp. Stability	Pump Flow	Limit Temp	Opening Dimension	Internal Dimension	External Dimension	Voltage / Frequency	N.W.
Unit	(℃)	(L)	(W)	(W)	(℃)	(L/min)	(℃)	(L*W)(mm)	(L*W*H)(mm)	(L*W*H)(mm)		(kg)
RCHL-L10-5	-10~RT	5	350	300	±0.5	15	-15	180*140	280*220*120	400*320*660	AC 220/110V, 50/60Hz	22
RCHL-L10-15		15	800	600			-20	180*140	300*230*200	400*345*820	AC 220V, 50/60Hz	30.5
RCHL-L10-20		20	1000	800			-20	300*220	400*320*180	485*400*925		43
RCHL-L10-30		30	1500	1200			-20	300*220	400*320*230	485*400*925		45
RCHL-L10-50		50	3000	1800			-20	330*320	500*400*250	630*560*1010		49
RCHL-L15-5	-15~RT	5	300	600	±0.5	15	-25	180*140	280*220*120	400*320*660		22
RCHL-L15-10		10	600	600			-25	180*140	280*220*120	400*345*820		30.5
RCHL-L20-5	-20~RT	5	180	600	±0.5	15	-25	180*140	280*220*120	400*320*660	AC 220/110V, 50/60Hz	22
RCHL-L20-10		10	500	800			-25	180*140	280*220*165	400*345*820	AC 220V, 50/60Hz	30.5
RCHL-L20-20		20	1300	800			-25	300*220	400*320*180	485*400*925		43
RCHL-L20-30		30	1600	1200			-25	300*220	400*325*230	485*400*925		45
RCHL-L20-50		50	3500	1800			-25	330*320	500*400*250	630*560*1010		49
RCHL-L30-5	-30~RT	5	150	1000	±0.5	15	-35	180*140	280*220*120	400*345*820		34.5
RCHL-L30-10		10	300	1000			-40	180*140	280*220*165	400*345*820		35
RCHL-L30-20		20	1400	1200			-40	300*220	400*320*180	485*400*925		49
RCHL-L30-30		30	1700	1200			-40	300*220	400*320*230	485*400*925		51.6
RCHL-L30-50		50	3800	1800			-40	330*320	500*400*250	630*560*1010		52
RCHL-L40-5	-40~RT	5	200	1000	±0.5	15	-45	180*140	280*220*120	400*345*820		34.5
RCHL-L40-10		10	400	1000			-45	180*140	280*220*165	400*345*820		35
RCHL-L40-20		20	1700	1200			-50	300*220	400*320*180	485*400*925		49
RCHL-L40-30		30	4200	1800			-50	300*220	400*320*230	485*400*925		51.6
RCHL-L40-50		50	4800	2100			-50	330*320	500*400*250	630*560*1010		54

Refrigerated Circulator

RECL10-5 RECL30-50 RECL40-100

This product is mechanically cooled by a totally enclosed compressor. The inner wall of the cooling tank has cooling copper coils.

The refrigerant (Freon) continuously circulates through the coil on the inner wall of the water tank to cool the refrigerant in the tank. And then the refrigerant is conveyed to interlayer of the supporting equipment or the condensation coil through built-in circulation pump and external circulation pipeline. This method can cool the material in the reactor indirestly, and also cool & liquefie the steam in contact with condensation tube.

Complete Set

Generally speaking, this product can connect with the interlayer of a double-layer glass reactor, rotary evaporator, and condensation coil of the reactor for usage. It is also feasible to directly put objects or containers which need to be cooled into the bath for cooling or reaction.

The outlet pipe of this product is connected to the lower inlet pipe of the kettle or condenser. The circulating liquid comes out from the upper circulation port and returns to the inlet of this product through the pipe, forming a complete circulation.

Specifications

Model		RECL10-5	RECL30-50	RECL40-100
Usage temperature range		-10 ℃~room temperature	-30 ℃~room temperature	-40℃ ~room temperature
Environment temperature		5 ~35 ℃	5 ~35 ℃	5 ~35 ℃
Environment humidity		≤70% ventilation	≤70% ventilation	≤70% ventilation
Power supply		Single phase AC220/110V,50/60Hz	Single phase AC220V,50/60Hz	Three phase AC220/380V,50/60Hz
Safety protection		Delay, over-current, overheat	Delay, over-current, overheat	Delay, overcurrent, overheating, phase sequence, phase loss protection
Display		LCD display, key operation	LCD display, key operation	LCD display, key operation
Temperature control accuracy		±0.1℃	±0.1℃	±0.1℃
Sensor		PT100	PT100	PT100
Total power		652W	2485W	7990W
Compressor	Specification	Small 1P	3P	10P
	Quantity	1	1	1
	Power	500W	2205W	7350W
	Cooling capacity	1550W	6972W	23240W
Circulation pump	Power	100W	100W	280W
	Lift	4-6M	4-6M	10-12M
	Flow	20-40L/min	20-40L/min	30-50L/min
	Pressure	≤0.4MPa	≤0.4MPa	≤0.4MPa
Air-cooling condenser	Power	52W	180W	360W
	Heating exchange area	4.2㎡	21.2㎡	39㎡
	Air volume	760m³/h	3400m³/h	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	Cold plate spray, anti-corrosion	Cold plate spray, anti-corrosion
Water tank dimension&volume		Φ220*180H(mm)/6.8L	Φ450*350H(mm) / 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)
Overall dimension(W*D*H)		423*485*(760+ 400)mm	795*770*(1150+pole 500)mm	845*1100*1(365+pole 500)mm
Net weight		43kg	119kg	250kg
Package Dimension (W*D*H)(mm)		600*440*900 carton package 0.21m³	750*820*1280 wooden package 0.79m³	1190×880×1540mm wooden package 1.61m³
G.W.(kg)		63kg	164kg	290kg

Low Temperature Cooling Liquid Circulating Pump

RECL20-4.5

Feature

- Small size-requires an installation space of 50*23*50cm(L*B*H).
- Can be installed directly on desktop, under lab bench, or in a fume hood, saving valuable space.

Environmentally friendly refrigerant producing no-toxic pollution.

Intuitive liquid level window for easy monitoring of liquid level in storage tank.

Water tank is set to protect the overflow port and drain port, which is convenient for filling-in and draining-out liquid.

Maintenance-free pressure/suction pump.

Pump pressure and flow can be automatically adjusted according to load change.

Adopt PID temperature control technology which greatly improves temperature stability.

Specifications

Model	RECL20-4.5
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	RS485
Low-level Alarm	Optional
Heating Function	Optional
Dimensions (W*D*H)	220*420*495(mm)
Operating Environment	5-32 °C
Outer Connected Dimension	Standard 8mm insulation tube
Power supply	AC220/110V,50/60Hz
Package Dimension(W*D*H)	510*310*600mm
G.W.	33kg

Low Temperature Circulator

RECL30-5

Description

- It can be not only used to vacuumize, but also provide low-temperature cooling water, which is the favorable assistant equipment to reduce pressure distillation and concentration. This kind of product reduce using space, lower vacuum degree and save water source, which is assembled with rotary evaporator and widely used in modern laboratories.

Working Principle

This product is mechanically cooled by a totally enclosed compressor. The inner wall of the cooling tank has cooling copper coils. The refrigerant (Freon) continuously circulates through the coil on the inner wall of the water tank to cool the refrigerant in the tank. And then the refrigerant is conveyed to interlayer of the supporting equipment or the condensation coil through built-in circulation pump and external circulation pipeline. This method can cool the material in the reactor indirestly, and also cool & liquefie the steam in contact with condensation tube.

Generally speaking, this product can connect with the interlayer of a double-layer glass reactor, rotary evaporator, and condensation coil of the reactor for usage. It is also feasible to directly put objects or containers which need to be cooled into the bath for cooling or reaction.

The outlet pipe of this product is connected to the lower inlet pipe of the kettle or condenser. The circulating liquid comes out from the upper circulation port and returns to the inlet of this product through the pipe, forming a complete circulation.

Specification

Model		RECL30-5
Temperature Range		-30℃ ~RT.
Ambient Temperature		5 ~35℃
Ambient Humidity		≤70%
Electricity		Single phase AC220/110V,50/60Hz
Total Power		887W
Safety Protection		Delay, over-current, overheat
Display		LCD display, key operation
Temperature Control Accuracy		±0.1℃
Sensor		PT100
Refrigerant		R22
Condensation Coil		ϕ8 copper tube plated by nickel
Equipment Material		Cold plate spray, anti-corrosion
Water Tank Dimension and Volume		ϕ220*180mm，6.8L
Available Dimension in Water Tank		ϕ185mm
Cover Opening		ϕ200mm
Outer Circulation Interface		Pagoda joint with Φ12mm outer diameter (facing the left side of the equipment)
Dimension		423*485*(760+ pole 400)mm
N.W./G.W.(kg)		46kg/60kg
Package Dimension (W*D*H) (mm)		610*450*900mm
	Quantity	1
	Power	735W
	Cooling Capacity	2324W
Circulation Pump	Power	100W
	Lift	4-6m
	Flow	20-40L/min
	Pressure	≤0.4MPa
Air Cooling Condenser	Power	52W
	Heating Exchange Area	4.2m2
	Air Volume	760m³/h