

Lab1st DLH series chillers are hermetic cooling circulators with operating temperatures ranging from -20C/-30C/-40C/-80C/-120C to room temperature. The liquid storage tank adopts full hermetic design, which is not easy to absorb moisture at low temperature and prolongs the service life. And the system has an exhaust port that can successfully complete the thermal fluid filling. Moreover, it's with microcomputer control and full digital display, easy to operate. It also with high and low voltage protection, overload protection, over current protection, grounding protection and other protection functions.

Note: The ultimate temperature of the chiller is affected by the load, heat preservation effect and the environment of the application site.



Hermetic Cooling Circulator

Features:

Closed circulation pipeline design, highly prevent circulating water pollution.

Thermal fluid circulation system is equipped with an exhaust port, which can successfully complete the filling of thermal fluid.

PID control method is adopted to optimize the temperature control process parameters, and the temperature control accuracy can reach $\pm 0.1^{\circ}\text{C}$.

Safety protection measures: safety protection, leakage protection, over-current overheating protection, lack of phase protection, etc.

Plate heat exchanger improves the heat transfer efficiency per unit area and reduces the amount of heat conduction medium.

Microcomputer control, full digital display, easy to operate.

Technical Data:

Model	DLH-80-6P (50L)
Technical Data	
Temp. Range	-80~RT; $\pm 1^{\circ}\text{C}$
Environment Temp. Range	$\leq 30^{\circ}\text{C}$
Optimum Ambient Humidity	0.6
Electrical Requirements	220/380V;3P;50/60HZ
Total Power [Kw]	10
Cooling Capacity [W]	
RT	13500
0°C	12000
-80°C	1100

Temp. Sensor	PT100
Safety	Multiple protection of overvoltage, delay, overcurrent, overheating, leakage, etc.
Compressor	
Type	Hermetic
Brand	Tecumseh
Power [Kw]	9
Horsepower	6
Qty	2
Refrigerating Fluid	R404A R23
Condenser	
Condensation Method	Air Cooling
Type of Fan	Axial flow outer rotor
Qty of Fans	2
Fluid Bath	
Bath Volume [L]	17
External Circulation Interface	DN20
Circulation Pump	
Type	Canned motor pump
Power [W]	280
Current [A]	1.2
Rated Lift [m]	11
Rated Flow [L/min]	35
Weight Dimension	
Unit Weight [Kg]	273
Unit Dimension [mm]	970×800×1245

Package Information:

Length (cm)	140.00	Width (cm)	104.00
Height (cm)	138.00	CBM (m3)	2.01
Weight (kg)		Total capacity	2.01
Product Serial No.	9011		
			2024-01-09 17:48:09

Technical details and dimensions are subject to change. No liability is accepted for errors or omissions. Illustrations can deviate from the original.

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Technical Data:

Model	DLH-40-6P (100L)
Technical Data	
Temp. Range	-40~RT; $\pm 1^{\circ}\text{C}$
Environment Temp. Range	$\leq 30^{\circ}\text{C}$
Optimum Ambient Humidity	0.6
Electrical Requirements	380V;3P;50/60HZ
Total Power [Kw]	6.3
Cooling Capacity [W]	
RT	16500
0°C	14600
-40°C	1100

Temp. Sensor	PT100
Safety	Multiple protection of overvoltage, delay, overcurrent, overheating, leakage, etc.
Compressor	
Type	Hermetic
Brand	ANKANG
Power [Kw]	5.25
Horsepower	6
Qty	1
Refrigerating Fluid	R404A
Condenser	
Condensation Method	Air Cooling
Type of Fan	Axial flow outer rotor
Qty of Fans	2
Fluid Bath	
Bath Volume [L]	35
External Circulation Interface	DN20
Circulation Pump	
Type	Canned motor pump
Power [W]	280
Current [A]	1.2
Rated Lift [m]	12
Rated Flow [L/min]	35
Weight Dimension	
Unit Weight [Kg]	220
Unit Dimension [mm]	970×800×1350

Package Information:

Length (cm)	Width (cm)
Height (cm)	CBM (m3)
Weight (kg)	Total capacity
Product Serial No. 9011	2024-01-09 17:15:54

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Model	DLH-80-10P
Technical Data	
Temp. Range	-80~RT; $\pm 1^{\circ}\text{C}$
Environment Temp. Range	$\leq 30^{\circ}\text{C}$
Optimum Ambient Humidity	0.6
Electrical Requirements	220/380V;3P;50/60HZ
Total Power [Kw]	16
Cooling Capacity [W]	
RT	29000
0°C	24950
-80°C	1701

Temp. Sensor	PT100
Safety	Multiple protection of overvoltage, delay, overcurrent, overheating, leakage, etc.
Compressor	
Type	Hermetic
Brand	Danfoss
Power [Kw]	15
Horsepower	10
Qty	2
Refrigerating Fluid	R404 R23
Condenser	
Condensation Method	Air Cooling
Type of Fan	Axial flow outer rotor
Qty of Fans	2
Fluid Bath	
Bath Volume [L]	100
External Circulation Interface	DN20
Circulation Pump	
Type	Canned motor pump
Power [W]	750
Current [A]	1.5
Rated Lift [m]	15
Rated Flow [L/min]	180
Weight Dimension	
Unit Weight [Kg]	470
Unit Dimension [mm]	1400×970×1580

Package Information:

Length (cm)	Width (cm)
Height (cm)	CBM (m3)
Weight (kg)	Total capacity
Product Serial No. 9011	2024-01-09 17:44:44

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Technical Data:

Model	DLH-80-13P5
Technical Data	
Temp. Range	-80~RT; $\pm 1^{\circ}\text{C}$
Environment Temp. Range	$\leq 30^{\circ}\text{C}$
Optimum Ambient Humidity	0.6
Electrical Requirements	220/380V;3P;50/60HZ
Total Power [Kw]	20
Cooling Capacity [W]	
RT	31000
0°C	27232
-80°C	2678

Temp. Sensor	PT100
Safety	Multiple protection of overvoltage, delay, overcurrent, overheating, leakage, etc.
Compressor	
Type	Semi-hermetic
Brand	Danfoss
Power [Kw]	19.5
Horsepower	13
Qty	2
Refrigerating Fluid	R404 R23
Condenser	
Condensation Method	Air Cooling
Type of Fan	Axial flow outer rotor
Qty of Fans	2
Fluid Bath	
Bath Volume [L]	100
External Circulation Interface	DN20
Circulation Pump	
Type	Canned motor pump
Power [W]	750
Current [A]	1.5
Rated Lift [m]	15
Rated Flow [L/min]	180
Weight Dimension	
Unit Weight [Kg]	490
Unit Dimension [mm]	1400×970×1780

Package Information:

Length (cm)	150.00	Width (cm)	116.00
Height (cm)	200.00	CBM (m3)	3.48
Weight (kg)	600.00	Total capacity	3.48
Product Serial No.	9011		
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