LABSTAC

AIR COOLED CHILLER

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AIR COOLED CHILLER

Air cooled chiller absorb heat from process water, and the heat is then transferred to the air around the chiller unit. Air cooled chiller require less maintenance.

Used in Laboratory, Pharmaceutical, Chemical, Laser.

Also known as Laboratory Air Cooled Chiller.

CHI21 AIR COOLED CHILLER

It adopts single-stage vapor compression circuit and has compressor overload protection, pump overload protection, reverse phase and lack of phase warning, anti-icing protection, high and low pressure protection and other devices.

The machine has stable performance and long life.

It can cool down quickly, and the temperature is stable to meet customer requirements.

This series of products mainly work on the principle of cold and heat exchange.

It is suitable for the cooling field in modern industry and is not affected by the ambient temperature.

It is an indispensable configuration device.

SPECIFICATIONS

Model	CHI21-007	CHI21-012	CHI21-019	CHI21-025
Freezing capacity				
kw	7.5 kw	12.5 kw	19.9 kw	25.1 kw
kcal/h	6450 kcal/h	10750 kcal/h	17114 kcal/h	-
btu/h	25590 btu/h	42650 btu/h	67898.8 btu/h	-
Compressor				
Output power	2.2 kw	3.7 kw	6 kw	-
hp	3 hp	5 hp	4x2 hp	-
Weight	2.7 kg	4.3 kg	7 kg	450 kg
Power	-	-	-	5hpx2
Refrigerant				
Control mode	Thermostatic expansion valve			-
Type	R22 (R407C optional)			-
Evaporator(Type)	Tube-in-shell			-
Condenser(Air Chiller)				
Fan power	0.25x2		0.45x2	-
Type	High effective inner threaded copper finned + low noise fan			-
Water tank capacity	60 L		120 L	
Pump				
Type	Stainless steel centrifugal pump			-
Power kw	0.37 kw		0.75 kw	1 hp
Flow rate	88 l/min		115 l/min	
Working pressure	2 bar			-
Chilled wateroutlet	1 inchx1		1 v 2 inchx1	-

Pipe coupling				
Chilled water inlet	1 inchx1		1 v 2 inchx1	-
Water tank drainage port	1/2 inch			-
Dimension(LXWXH) mm	1250X700X1200 mm		1590x700x1330 mm	-
Weight	165 kg	175 kg	320 kg	450 kg
Power	3 ph-380 V/50 Hz (220 V/400 V/415 V/440 V 50 Hz/60 Hz)			-
Temperature	5-35 °C			-
Tolerance	± 0.5 °C (± 1 °C at low load)			-
Safety protections	High and low pressure controller/anti-freezing switch/overload of pump and compressor protection/overheat protection/delayed protection			-
Condensor(Water Chiller)				
Type	-	-	-	Air cooling
0.8x2	-	-	-	-
High effective inner threaded copper finned + low noise fan	-	-	-	-
250 L	-	-	-	-
Stainless steel centrifugal pump	-	-	-	-
2.2 kw	-	-	-	-
315 l/min	-	-	-	-
2 bar	-	-	-	-
2 inch x1	-	-	-	-
2 inchx1	-	-	-	-
1 inch	-	-	-	-
2900x1170x1930 mm	-	-	-	-
720 kg	-	-	-	-
3 ph-380 V/50 Hz (220 V/400 V/415 V/440 V 50 Hz/60 Hz)	-	-	-	-
5-35 °C	-	-	-	-
± 0.5 °C (± 1 °C at low load)	-	-	-	-

Model	CHI21-025A	CHI21-000A	CHI21-028	CHI21-038A
Freezing capacity				
kw	25.1 kw	28.5 kw		38.1 kw
kcal/h	21586 kcal/h	-	24510 kcal/h	-
btu/h	85641.2 btu/h	-	97242 btu/h	-
Compressor				
Output power	7.5 kw	-	9 kw	-
hp	5x2 hp	-	6x2 hp	-
Weight	8 kg	-	11 kg	-
Power	-	6hpx2	-	5hpx3
Refrigerant				
Control mode	Thermostatic expansion valve	-	Thermostatic expansion valve	-
Type	R22 (R407C optional)	-	R22 (R407C optional)	-
Evaporator(Type)	Tube-in-shell	-	Tube-in-shell	-
Condenser(Air Chiller)				
Fan power	0.45x2	-	0.8x2	-
Type	High effective inner threaded copper finned + low noise fan	-	High effective inner threaded copper finned + low noise fan	-

Water tank capacity	120 L	-	120 L	-
Pump				
Type	Stainless steel centrifugal pump	-	Stainless steel centrifugal pump	-
Power kw	0.75 kw	1 hp	0.75 kw	2 hp
Flow rate	115 l/min	-	115 l/min	-
Working pressure	2 bar	-	2 bar	-
Chilled wateroutlet	1 v 2 inchx1	-	2 inch x1	-
Pipe coupling				
Chilled water inlet	1 v 2 inchx1	-	2 inchx1	-
Water tank drainage port	1/2 inch0	-	1/2 inch0	-
Dimension(LXWXH) mm	1590x700x1330 mm	-	1750x870x1500 mm	-
Weight	340 kg	450 kg	360 kg	600 kg
Power	3 ph-380 V/50 Hz (220 V/400 V/415 V/440 V 50 Hz/60 Hz)	-	3 ph-380 V/50 Hz (220 V/400 V/415 V/440 V 50 Hz/60 Hz)	-
Temperature	5-35 °C	-	5-35 °C	-
Tolerance	± 0.5 °C (± 1 °C at low load)	-	± 0.5 °C (± 1 °C at low load)	-
Safety protections	High and low pressure controller/anti-freezing switch/overload of pump and compressor protection/overheat protection/delayed protection	-	High and low pressure controller/anti-freezing switch/overload of pump and compressor protection/overheat protection/delayed protection	-
Condensor(Water Chiller)				
Type	-	Air cooling	-	Air cooling
0.8x2	-	-	-	-
High effective inner threaded copper finned + low noise fan	-	-	-	-
250 L	-	-	-	-
Stainless steel centrifugal pump	-	-	-	-
2.2 kw	-	-	-	-
315 l/min	-	-	-	-
2 bar	-	-	-	-
2 inch x1	-	-	-	-
2 inchx1	-	-	-	-
1 inch	-	-	-	-
2900x1170x1930 mm	-	-	-	-
720 kg	-	-	-	-
3 ph-380 V/50 Hz (220 V/400 V/415 V/440 V 50 Hz/60 Hz)	-	-	-	-
5-35 °C	-	-	-	-
± 0.5 °C (± 1 °C at low load)	-	-	-	-

Model	CHI21-038	CHI21-000A1	CHI21-050	CHI21-056A
Freezing capacity				
kw	38.1 kw	50.5 kw		56.7 kw
kcal/h	-	-	43430 kcal/h	-
btu/h	-	-	172306 btu/h	-
Compressor				
Output power	-	-	15 kw	-
hp	-	-	10x2 hp	-

Weight	-	-	18 kg	-
Power	7.5hpx2	10hpx2	-	12.5hpx2
Refrigerant				
Control mode	-	-	Thermostatic expansion valve	-
Type	-	-	R22 (R407C optional)	-
Evaporator(Type)	-	-	Tube-in-shell	-
Condenser(Air Chiller)				
Fan power	-	-	-	-
Type	-	-	-	-
Water tank capacity	-	-	-	250 L
Pump				
Type	-	-	-	-
Power kw	2 hp	3 hp	-	3 hp
Flow rate	-	-	-	315 l/min
Working pressure	-	-	-	-
Chilled wateroutlet	-	-	-	-
Pipe coupling				
Chilled water inlet	-	-	-	-
Water tank drainage port	-	-	-	-
Dimension(LXWXH) mm	-	-	-	-
Weight	600 kg	880 kg	-	980 kg
Power	-	-	-	-
Temperature	-	-	-	-
Tolerance	-	-	-	-
Safety protections	-	-	-	-
Condensor(Water Chiller)				
Type	Air cooling		-	Air cooling
0.8x2	-	-	Condenser(Air Chiller): Type	-
High effective inner threaded copper finned + low noise fan	-	-	Water tank capacity	-
250 L	-	-	Pump: Type	-
Stainless steel centrifugal pump	-	-	Pump: Power kw	-
2.2 kw	-	-	Pump: Flow rate	-
315 l/min	-	-	Pump: Working pressure	-
2 bar	-	-	Pump: Chilled wateroutlet	-
2 inch x1	-	-	Pipe coupling: Chilled water inlet	-
2 inchx1	-	-	Pipe coupling: Water tank drainage port	-
1 inch	-	-	Dimension(LXWXH) mm	-
2900x1170x1930 mm	-	-	Weight	-
720 kg	-	-	Power	-
3 ph-380 V/50 Hz (220 V/400 V/415 V/440 V 50 Hz/60 Hz)	-	-	Temperature	-
5-35 °C	-	-	Tolerance	-
± 0.5 °C (± 1 °C at low load)	-	-	Safety protections	-

Model	CHI21-056	CHI21-000A2	CHI21-076	CHI21-104A
Freezing capacity				

kw	56.7 kw	76.5 kw		104 kw
kcal/h	48762 kcal/h	-	65790 kcal/h	-
btu/h	193460.4 btu/h	-	261018 btu/h	-
Compressor				
Output power	18.7 kw	-	22 kw	-
hp	12.5x2 hp	-	10x3 hp	-
Weight	22 kg	-	26 kg	-
Power	-	10hpx3	-	10hpx4
Refrigerant				
Control mode	Thermostatic expansion valve	-	Thermostatic expansion valve	-
Type	R22 (R407C optional)	-	R22 (R407C optional)	-
Evaporator(Type)	Tube-in-shell	-	Tube-in-shell	-
Condenser(Air Chiller)				
Fan power	1.1x2	-	1.5x2	-
Type	High effective inner threaded copper finned + low noise fan	-	High effective inner threaded copper finned + low noise fan	-
Water tank capacity	250 L			320 L
Pump				
Type	Stainless steel centrifugal pump	-	Stainless steel centrifugal pump	-
Power kw	2.2 kw	3 hp	2.2 kw	5 hp
Flow rate	315 l/min			367 l/min
Working pressure	2 bar	-	2.2 bar	-
Chilled wateroutlet	2 v 2 inch 1	-	2 v 2 inch 1	-
Pipe coupling				
Chilled water inlet	2 v 2 inch1	-	2 v 2 inch1	-
Water tank drainage port	1 inch	-	1 inch	-
Dimension(LXWXH) mm	2900x1170x1930 mm	-	2900x1170x1930 mm	-
Weight	760 kg	1100 kg	800 kg	1250 kg
Power	3 ph-380 V/50 Hz (220 V/400 V/415 V/440 V 50 Hz/60 Hz)	-	3 ph-380 V/50 Hz (220 V/400 V/415 V/440 V 50 Hz/60 Hz)	-
Temperature	5-35 °C	-	5-35 °C	-
Tolerance	± 0.5 °C (± 1 °C at low load)	-	± 0.5 °C (± 1 °C at low load)	-
Safety protections	High and low pressure controller/anti-freezing switch/overload of pump and compressor protection/overheat protection/delayed protection	-	High and low pressure controller/anti-freezing switch/overload of pump and compressor protection/overheat protection/delayed protection	-
Condensor(Water Chiller)				
Type	-	Air cooling	-	Air cooling
0.8x2	-	-	-	-
High effective inner threaded copper finned + low noise fan	-	-	-	-
250 L	-	-	-	-
Stainless steel centrifugal pump	-	-	-	-
2.2 kw	-	-	-	-
315 l/min	-	-	-	-
2 bar	-	-	-	-
2 inch x1	-	-	-	-
2 inchx1	-	-	-	-

1 inch	-	-	-	-
2900x1170x1930 mm	-	-	-	-
720 kg	-	-	-	-
3 ph-380 V/50 Hz (220 V/400 V/415 V/440 V 50 Hz/60 Hz)	-	-	-	-
5-35 °C	-	-	-	-
± 0.5 °C (± 1 °C at low load)	-	-	-	-

Model	CHI21-000A3	CHI21-104	CHI21-128A	CHI21-128
Freezing capacity				
kw	104 kw		128.6 kw	
kcal/h	-	110596 kcal/h	-	-
btu/h	-	354848 btu/h	-	-
Compressor				
Output power	-	30 kw	-	-
hp	-	20x2 hp	-	-
Weight	-	34 kg	-	-
Power	20hpx2	-	12.5hpx4	25hpx2
Refrigerant				
Control mode	-	Thermostatic expansion valve	-	-
Type	-	R22 (R407C optional)	-	-
Evaporator(Type)	-	Tube-in-shell	-	-
Condenser(Air Chiller)				
Fan power	-	1.1x3	-	-
Type	-	High effective inner threaded copper finned + low noise fan	-	-
Water tank capacity	320 L		370 L	
Pump				
Type	-	Stainless steel centrifugal pump	-	-
Power kw	5 hp	3.75 kw	6 hp	
Flow rate	367 l/min		400 l/min	
Working pressure	-	3 bar	-	-
Chilled wateroutlet	-	3 inch	-	-
Pipe coupling				
Chilled water inlet	-	3 inch	-	-
Water tank drainage port	-	1 inch	-	-
Dimension(LXWXH) mm	-	3360x1280x1950 mm	-	-
Weight	1250 kg	1360 kg	1400 kg	
Power	-	3 ph-380 V/50 Hz (220 V/400 V/415 V/440 V 50 Hz/60 Hz)	-	-
Temperature	-	5-35 °C	-	-
Tolerance	-	± 0.5 °C (± 1 °C at low load)	-	-
Safety protections	-	High and low pressure controller/anti-freezing switch/overload of pump and compressor protection/overheat protection/delayed protection	-	-
Condensor(Water Chiller)				
Type	Air cooling	-	Air cooling	
0.8x2	-	-	-	-

High effective inner threaded copper finned + low noise fan	-	-	-	-
250 L	-	-	-	-
Stainless steel centrifugal pump	-	-	-	-
2.2 kw	-	-	-	-
315 l/min	-	-	-	-
2 bar	-	-	-	-
2 inch x1	-	-	-	-
2 inchx1	-	-	-	-
1 inch	-	-	-	-
2900x1170x1930 mm	-	-	-	-
720 kg	-	-	-	-
3 ph-380 V/50 Hz (220 V/400 V/415 V/440 V 50 Hz/60 Hz)	-	-	-	-
5-35 °C	-	-	-	-
± 0.5 °C (± 1 °C at low load)	-	-	-	-

Model	CHI21-159
Freezing capacity	
kw	159.9 kw
kcal/h	-
btu/h	-
Compressor	
Output power	-
hp	-
Weight	-
Power	10hpx6
Refrigerant	
Control mode	-
Type	-
Evaporator(Type)	-
Condenser(Air Chiller)	
Fan power	-
Type	-
Water tank capacity	-
Pump	
Type	-
Power kw	10 hp
Flow rate	680 l/min
Working pressure	-
Chilled wateroutlet	-
Pipe coupling	
Chilled water inlet	-
Water tank drainage port	-
Dimension(LXWXH) mm	-
Weight	1560 kg
Power	-
Temperature	-

Tolerance	-
Safety protections	-
Condensor(Water Chiller)	
Type	Air cooling
0.8x2	-
High effective inner threaded copper finned + low noise fan	-
250 L	-
Stainless steel centrifugal pump	-
2.2 kw	-
315 l/min	-
2 bar	-
2 inch x1	-
2 inchx1	-
1 inch	-
2900x1170x1930 mm	-
720 kg	-
3 ph-380 V/50 Hz (220 V/400 V/415 V/440 V 50 Hz/60 Hz)	-
5-35 °C	-
± 0.5 °C (± 1 °C at low load)	-

CHI21-007

CHI21-012

CHI21-019

CHI21-025

CHI21-025A

CHI21-000A

CHI21-028

CHI21-038A

CHI21-038

CHI21-000A1

CHI21-050

CHI21-056A

CHI21-056

CHI21-000A2

CHI21-076

CHI21-104A

CHI21-000A3

CHI21-104

CHI21-128A

CHI21-128

CHI21-159

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