

AIR COOLED CHILLER



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 water outlet | 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 | - |

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|---|-------------|--------|---|-------------|
| 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 | - |

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|-------------------|-----------|-------------|-----------|------------|
| 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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