

Cooling pump CH-6000W/7500W/9000W/11000W/15000W/18000W

The water-cooled integrated type is ideal for cleanroom.

Can be customized based on the following specifications upon request such as compressor output up to 18 kW, etc. from a wide range of options.

Features

- The water-cooled integrated type is ideal for cleanroom
- Customizable upon request as a special order
- The compressor output above 18 kW can be custom-made

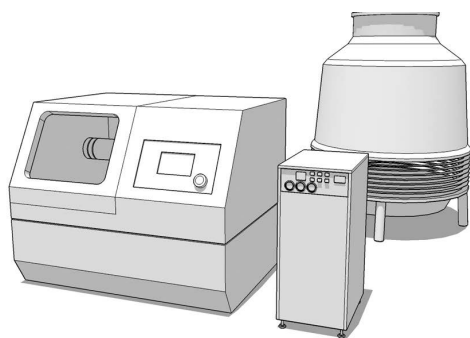
Applications

- The temperature control for Semiconductor manufacturing equipment



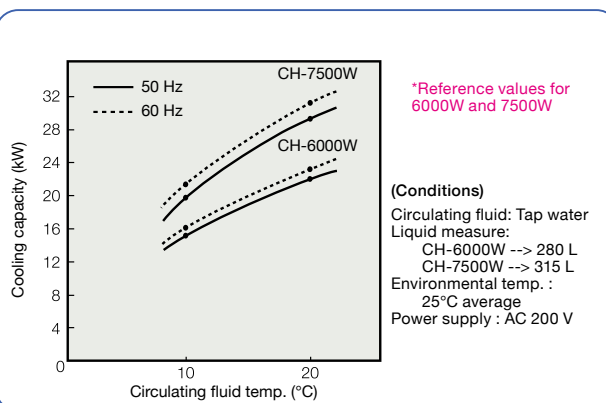
CH-15000W

*The appearance is subject to change.



When the water temperature of the cooling tower is not stable during the summer hot season, and by using it as the primary cooling water of water-cooled chiller, a stable temperature cooling water can be obtained. (The cooling tower is actually installed outdoors).

Cooling capacity curves (Reference)



Model	CH-6000W	CH-7500W	CH-9000W	CH-11000W	CH-15000W	CH-18000W
Temperature range	+5°C to +25°C					
Control accuracy (*1)	±2.0 to 3.0°C, Compressor On-Off control					
Cooling capacity [kW] (50/60 kHz, Circulation temperature at +20°C) (*2)	22.8/24.4	27.4/29.2	31.9/34.1	40.4/43.1	46.4/49.0	57.4/60.3
Compressor output, Refrigerant	6.0 kW, R407C	7.5 kW, R407C	9.0 kW, R407C	11.2 kW, R407C	7.5 kW × 2, R407C	9.0 kW × 2, R407C
Pumping capacity (50/60 kHz) (*3)	Max. discharge pressure [MPa]	0.32/0.45		0.33/0.47		Ask us
	Flow rate [L/min]	40/110	83/140		Ask us	
	Motor output [kW]	0.77/1.2	1.02/1.69		Ask us	
Safety device/function	Short/Over current breaker, Overload protector, High and Low temperature, Refrigerant high and low pressure, Overheat protector for Compressor, Phase-reversal relay, Overheat protector for Compressor, Low water cut off, Warning indicator lamp					
Water bath capacity (at 80% water level)	280 L	315 L		Ask us		
Required primary cooling water rate [L/min] (cooling water temperature: +25°C/+34°C) (*4)	50/64	57/74	75/112	Ask us		
Connecting pipe diameter (circulating fluid in/out, primary cooling water in/out)	Rc1-1/4, Rc1-1/4			Ask us		
Dimensions (WxDxH)	756 × 1020 × 1581 mm	1107 × 823 × 1882 mm		Ask us		
Weight	Ask us					
Power Supply/Operation current	AC 200 V 50/60 Hz/three phase *Ask us for more information.					

(*1) Performance may not be maintained due to environmental temperature, heat load, circulation pipe distance, etc. (*2) Capacity when the ambient temperature at below +30°C. (*3) Capacity when using tap water. Flow rate when the discharge pressure at 0.1 MPa. (*4) The required cooling water flow increases and decreases by the temperature. Please note that if the flow rate does not increase when the temperature is high, it may cause problems.

•Since the water-cooled type requires primary cooling water for cooling, please make sure the specified flow rate is secured. •Standard products cannot use pure water as circulating fluid. •Please ask us when mixing chemicals for water treatment to circulating fluid. •The fee for Delivery and Installing are quoted separately.

NEW

Constant-temperature incubator/shaker OD Monitor

For cell culture related products

Shaker

Mixer Rotator Stirrer

Bead beater homogenizer Ultrasonic homogenizer

Aluminum block Bath Mini-size Bath

Water bath Shaking Water bath Immersion cooler

Hybridization Incubator Constant temperature Chambers

Centrifugal Concentrators Cold Trap

Freeze dryers

Substrate Electroporation apparatus Blotting device for hybridization

Constant-temperature water circulating system [Chiller]

Appendix