

Cooling pump CH-802BF

Water-cooled type CH series having excellent in portability for 200 V power supply. Built-in heater makes precise temperature control. Cooling in high temperature range, Wide temperature range, Various output and external sensor are available.

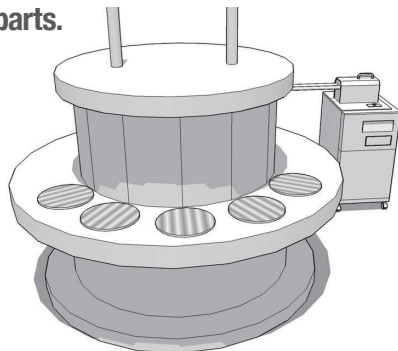
Pump unit (Sold separately) --> P.182 External dimensions --> P.183

Features

- The water-cooled integrated type is ideal for cleanroom.
- The unit type pumps can be selected according to purpose.
- Cooling in high temperature range. Various output and external sensor are available.

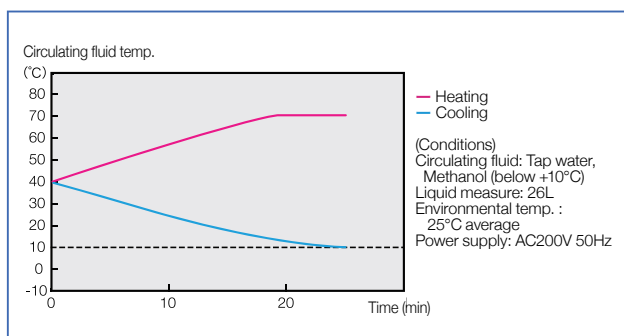
Main Applications

- Temperature control for processing stage of semiconductor parts.

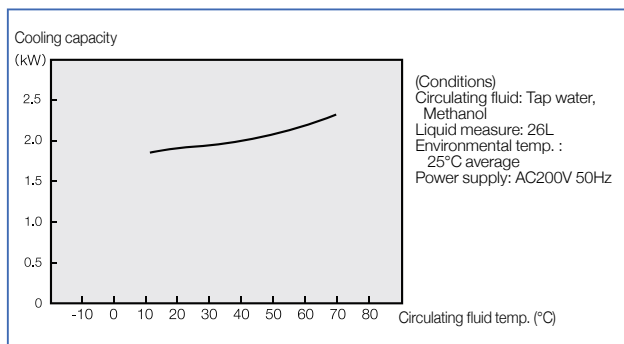


This product with the highest capability among CH series, ideal for applications requiring high cooling capacity and rapid temperature stability.

Heating/Cooling curve



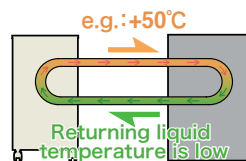
Cooling capacity curve



The pump unit is sold separately.

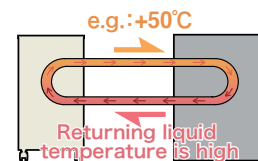
Cooling in high temperature range.

[Heating control]



For temperature control in high temperature range, general chiller is only heating control.

[Cooling control]



Cooling in high temperature range is required in this temperature control.

Model	CH-802BF
Temperature range (*1)	+10°C to +70°C
Ambient temperature range	+5°C to +35°C
Control accuracy (*2)	±0.5°C, Heater PID control
Compressor output, Refrigerant	750W, R407C
Cooling capacity (at 50Hz) (*3)	approx. 1.9kW
Heater output	3kW
Temperature setting display	Digital system (setting/display switching system)
Safety device/function	Short/Over current breaker, Compressor pressure abnormal, Compressor overcurrent, Compressor overload, Pump overcurrent, Temperature sensor abnormality diagnosis circuit, Alarm for replenishing liquid, Low-water cut off, Phase-reversal relay
Other Functions	Temperature check monitor, Remote temperature setting, Safety device actuation signal output, External temperature sensor connection (*4)
Water bath capacity (*5)	approx. 26L (water level 80%)
Applicable pump unit (*6)	P-320, P-420, P-520
Required primary cooling water	7.5L/min at +25°C, 18L/min at +34°C
Connecting pipe diameter of Primary cooling water	Rc1/2
Dimensions (Pump unit not included)	407x590x771Hmm
Weight (Pump unit not included)	approx. 90kg
Power Supply (Pump unit not included)	AC200V·50/60Hz·15A, Three-phase
Operation current (Pump unit not included)	12A
Standard Accessory	Power code, Drain hose x 1, Connector for signal x 1

(*1)When setting below +7°C or less, please be sure to use antifreeze (Please ask us what type of). (*2)Performance may not be maintained due to heating medium, environmental temperature, heat load, circulation pipe distance etc. (*3)Capacity when using tap water and the circulating fluid temperature at 10°C. The capacity varies with the pump unit mounted. The capacity decies when the primary cooling water below its required value. (*4)External temperature sensor (φ4x250mm) is available as an option. (*5)Due to not the sealed structure, the circulating fluid might evaporates and reduces depending on the set temperature and heating medium type. (*6)Please refer the pump units on p182.