

# Cooling pump CH-151BF/601B

**Air-cooled type CH series having excellent in portability for 100 V power supply. Built-in heater makes precise temperature control. Various output and external sensor are available.**

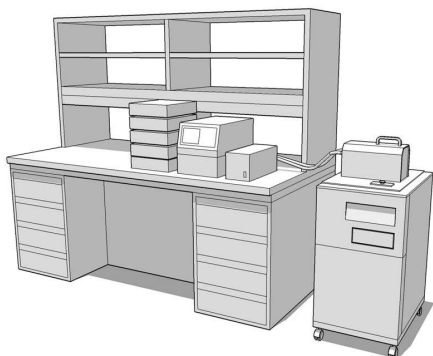
Pump unit (Sold separately) --> P.182 External dimensions --> P.183

## Features

- The air-cooled integrated chiller, not requires the primary cooling water and plumbing.
- The unit type pumps can be selected according to purpose.

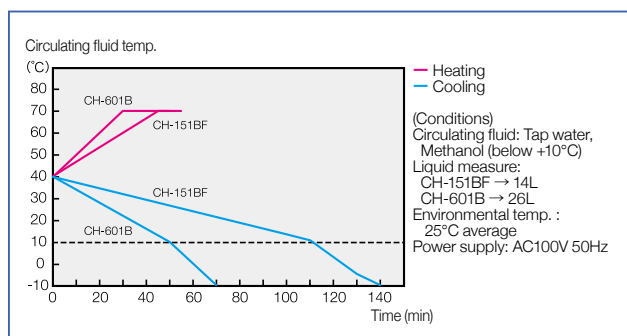
## Main Applications

- Temperature control for the machine in the facility equipped with 100V power supply.

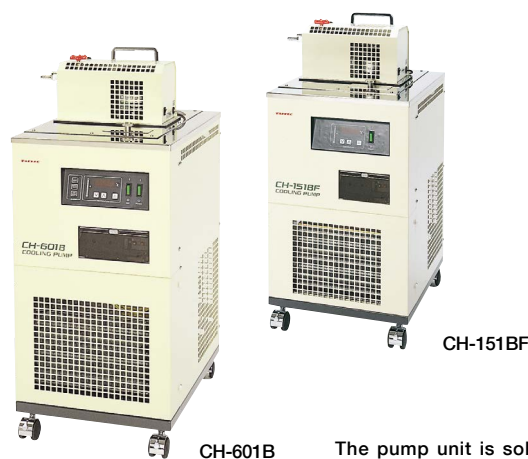
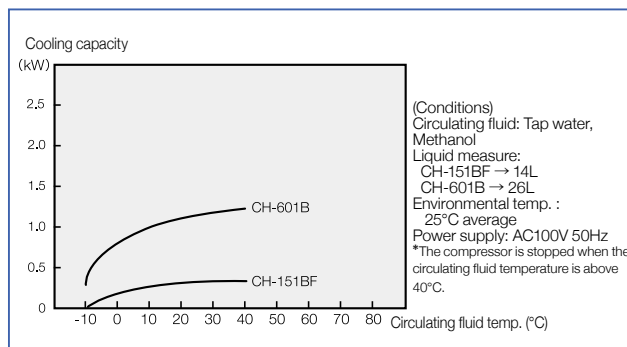


Since this unit is for AC 100 V, even if there is no AC 200V facility, can be used as the authentic chiller unit.

## Heating/Cooling curve



## Cooling capacity curve



CH-601B

CH-151BF  
The pump unit is sold separately.

## Various output and external sensor can be used.

Temperature setting can be the range of -10 °C to +80 °C.

The constant temperature circulation can be with stable and high accuracy as the compressor is operated continuously and the temperature is controlled by the heater. Can be used with 100V power supply. Remote temperature setting and external sensor (option) can be used. Various safety devices equipped are output actuation signals.

Model	CH-151BF	CH-601B
Temperature range (*1)	-10°C to +80°C	
Ambient temperature range	+5°C to +35°C	
Control accuracy (*2)	±0.5°C, Heater PID control	
Compressor output, Refrigerant	150W, R134a	600W, R404A
Cooling capacity (at 50Hz) (*3)	approx. 0.29kW	approx. 1.0kW
Heater output	0.6kW	1.8kW
Temperature setting display	Digital system (setting/display switching system)	
Safety device/function	Short/Over current breaker, Alarm and warning for compressor, High and Low temperature, Alarm and warning for pump motor, Abnormal temperature sensor diagnosing circuits, Alarm for replenishing liquid, Low-water cut off, Phase-reversal relay	
Other Functions	Temperature check monitor, Remote temperature setting, Safety signal for safety device, External temperature sensor connection (*4)	
Water bath capacity (water level 80%) (*4)	approx. 14L	approx. 26L
Applicable pump unit (*5)	P-11	P-11, P-310
Dimensions (Pump unit not included)	407×485×676Hmm	407×565×766Hmm
Weight (Pump unit not included)	approx. 46kg	approx. 75kg
Power Supply (Pump unit not included)	AC100V·50/60Hz, Single-phase	
Operation current (Pump unit not included)	15A	40A
Operation current (Pump unit not included)	10A	27A
Standard Accessory	Power code, Drain hose x 1, Connector for signal x 1	

(\*1)When setting below +7°C, please be sure to use antifreeze (Please ask us what type of). The compressor is stopped when the circulating fluid temperature is above 40°C.

(\*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 decreases when the ambient temperature above +30°C.

(\*4)External temperature sensor (φ4×250mm) 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.