# Peltier-Type Chiller Thermo-con/ Rack Mount Type

■Cooling capacity 1 kW

# 

Controls the number of fan rotations depending on the load, reducing noise when the cooling load is low.

HECR 010 - A 2 Cooling capacity 010 1 kW Radiating method Air-cooled Α Power supply 200 to 240 VAC Pipe thread type Nil Rc Ν NPT thread Option • Nil None Е With feet and no rack mounting brackets F With flow switch P High-pressure pump mounted

How to Order

### Specifications

Model		HECR010-A
Cooling method		Thermoelectric device (Thermo-module)
Radiating method		Forced air cooling
Control method		Cooling/Heating automatic shift PID control
Ambient temperature/humidity		50 to 95°F (10 to 35°C), 35 to 80%RH (No condensation)
Circulating fluid system	Circulating fluid	Water, 20% ethylene glycol
	Set temperature range	50 to 140°F (10 to 60°C) (No condensation)
	Cooling capacity	1 kW (Water) Note 1)
	Heating capacity	2 kW (Water) Note 1)
	Temperature stability Note 2)	±0.018 to 0.054°F (±0.01 to 0.03°C)
	Pump capacity	Refer to the performance charts.
	Tank capacity	Approx. 0.34 gal (1.3 L)
	Port size	IN/OUT: Rc3/8, Drain: PLCD 16004
	Wetted parts material	Stainless steel, EPDM, NBR, Ceramics, PPE, Carbon, Polyethylene, Polypropylene
Electrical system	Power supply	Single-phase 200 to 240 VAC ±10%, 50/60 Hz
	Overcurrent protector	14 A
	Current consumption	Max. 8 A (200 V)
	Communications	RS-232C/RS-485
Weight		Approx. 73 lb (33 kg)
Accessories		Power supply connector, Operation Manual Power supply cable should be ordered as an option (sold separately) or prepared by the user.
Safety standards		CE marking, UL (NRTL) standards

INFORMATION

RoHS

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Note 1) Conditions: Set temperature 77°F (25°C), Ambient temperature 77°F (25°C), Circulating flow rate 1.05gal/min (4 L/min)

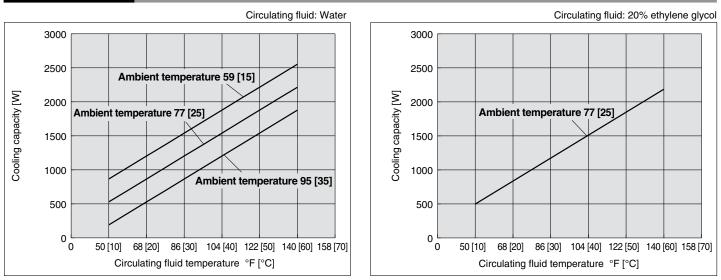
Note 2) The indicated values are with a stable load without turbulence in the operating conditions. It may be out of this range in some other operating conditions.



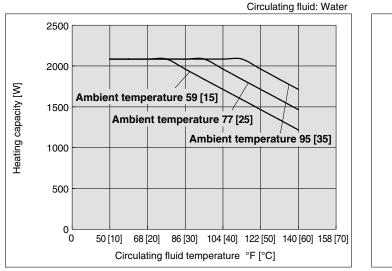
# Series HECR010

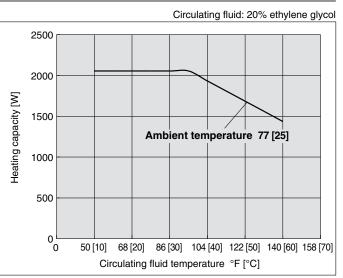
# Series HECR010

## **Cooling Capacity**

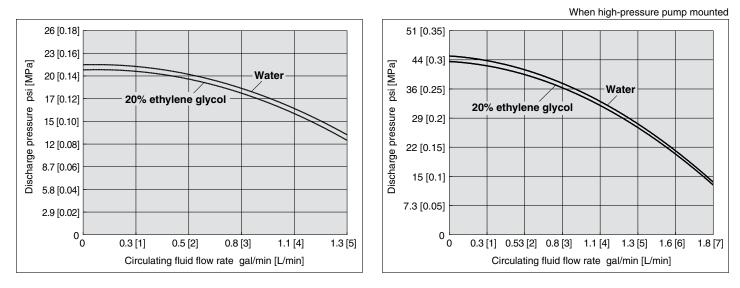


### **Heating Capacity**



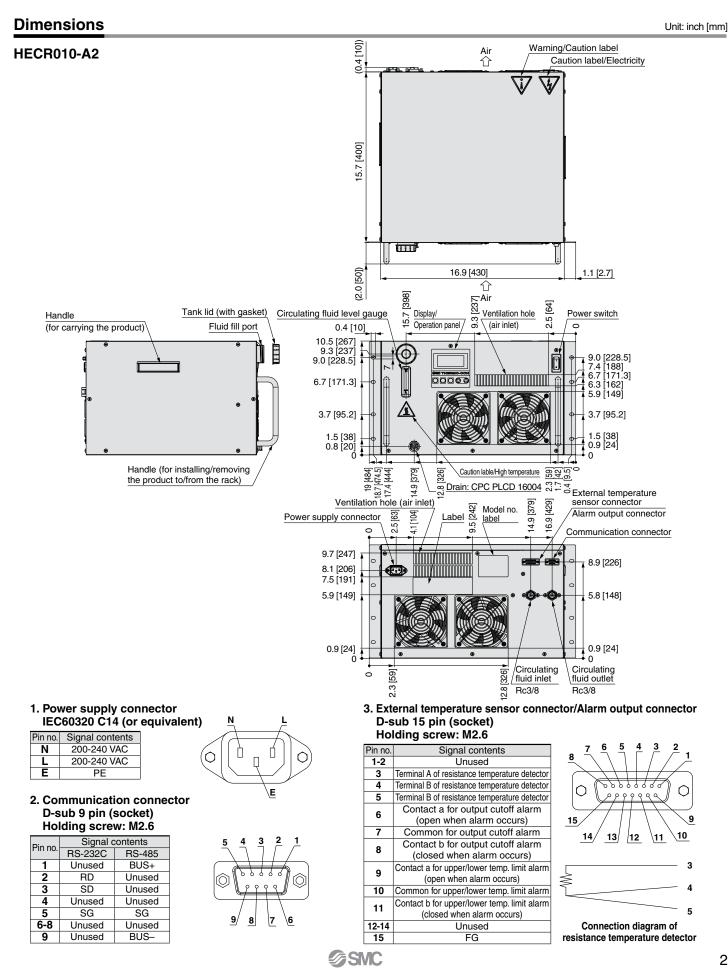


## Pump Capacity (Thermo-con Outlet)





# Thermo-con/Rack Mount Type Series HECR010



# Series HECR010

### Options

#### Note) Options have to be selected when ordering the Thermo-con. It is not possible to add them after purchasing the unit.

Unit: inch [mm]

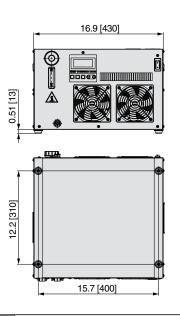
#### Option symbol

With Feet and No Rack Mounting Brackets

### HECR010-A2□-<u>E</u>

With feet and no rack mounting brackets

Rack mounting brackets and handles on the front side are removed as they are not necessary when the product is not mounted in a rack. This option has rubber feet for installing the product on the floor.



Option symbol With Flow Switch

HECR010-A2

With flow switch

This is an ON/OFF switch detecting low levels of the circulating fluid. When the fluid volume is 1 L/min or less, "ERR16" is displayed and the Thermo-con stops. The flow switch is built into the Thermo-con.

#### Option symbol

#### High-pressure Pump Mounted

HECR010-A2□-P

High-pressure pump mounted

Possible to choose a high-pressure pump in accordance with user's piping resistance. Cooling capacity will decrease by approx. 50 W by heat generated in the pump.

A Safety Instructions Be sure to read "Handling Precautions for SMC Products" (M-E03-3) before using.

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