INFORMATION

Peltier-type Chiller Thermo-con/ Compact Type Air-cooled

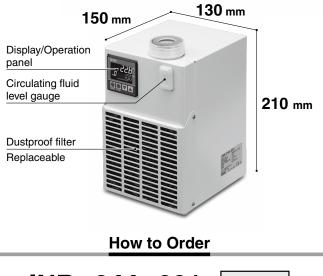


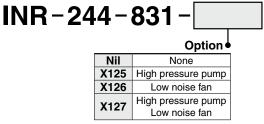
Compact, Space saving

Refrigerant-free

- When selecting an option)
- Cooling capacity: 220 W
- Temperature stability: ±0.01 to 0.03°C
- Set temperature range: 10°C to 60°C
- Fluid contact material: Stainless steel, Resin (Aluminum and copper material-free)







Specifications

Cooling method		Thermoelectric device (Thermo-module)		
Radiating method		Forced air cooling		
Control method		Cooling/Heating automatic shift PID control		
Ambient temperature		10 to 35°C		
d system	Circulating fluid	Tap water, Ethylene glycol aqueous solution (20% or less)		
	Set temperature range	10.0 to 60.0°C (No condensation)		
	Cooling capacity	220 W (Tap water)*1		
	Heating capacity	500 W (Tap water)*1		
fluid	Temperature stability	±0.01 to 0.03°C*2		
٦ و	Pump capacity	Refer to the performance charts.		
Circulating	Tank capacity	Approx. 110 mL		
	Port size	Rc1/4		
	Fluid contact	Stainless steel, EPDM, NBR, Ceramics, PPE,		
	material	PPS, Carbon, PP, POM		
Electrical system	Power supply	24 VDC ±10%		
	Power consumption	12.5 A		
	Communications	RS-485		
Weight		Approx. 4.5 kg		
Noise level		Approx. 58 dBA (Low noise fan (Option): 45 dBA)		
Accessories		DC input power supply cable (1 m), Operation Manual		
		(The 24 VDC power supply should be prepared by the user.)		
Safety standards		CE marking, UL (NRTL) standards		
*1 Conditions: Set temperature 25°C. Ambient temperature 25°C. Circulating				

*1 Conditions: Set temperature 25°C, Ambient temperature 25°C, Circulating flow rate 1 L/min (For options, refer to the performance charts.)

*2 The indicated values are when there is a stable load without turbulence. It may be out of this range depending on the operating conditions.

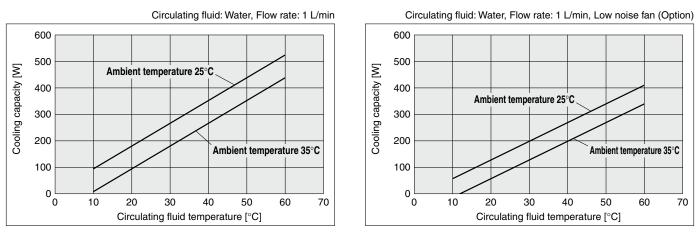
An AC adapter and a power supply cable suitable to this product are available as optional accessories. For details, refer to the back cover.



INR-244-831

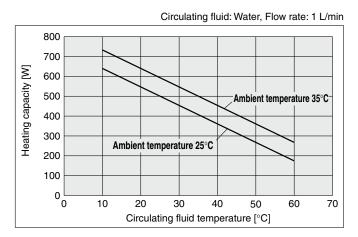
INR-244-831

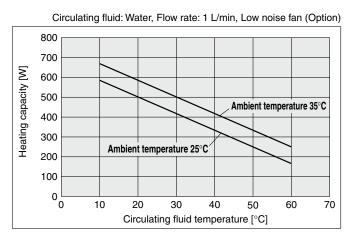
Cooling Capacity



* For the high pressure pump (Option), the cooling capacity decreases by approx. 20 W.

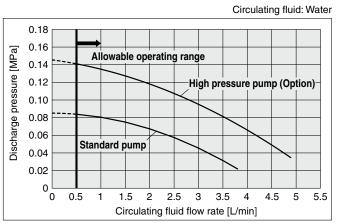
Heating Capacity



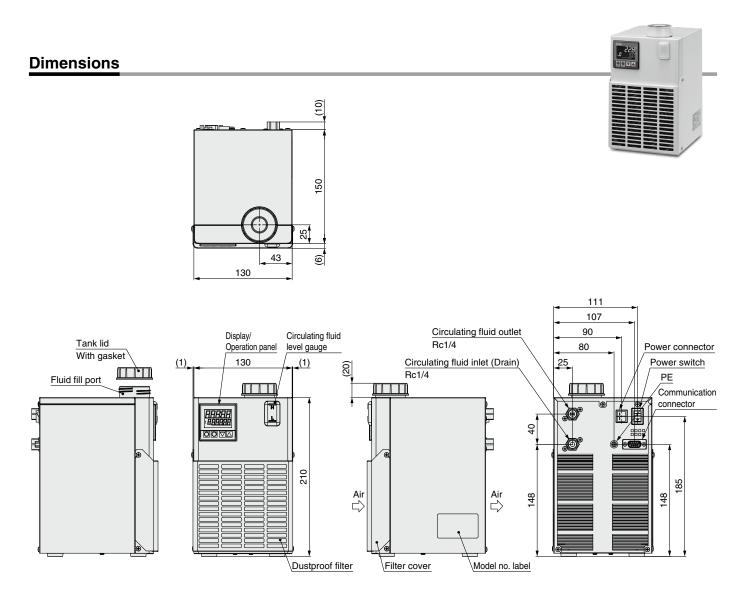


* For the high pressure pump (Option), the heating capacity increases by approx. 10 W.

Pump Capacity (Thermo-con Outlet)



Peltier-type Chiller Thermo-con/Compact Type Aircooled INR-244-831



Connector name	No.	Signal contents	Connector type/Part no.
Power	1	24 VDC +	1 2
connector	2	24 VDC -	J.S.T. Mfg. Co., Ltd. JFA connector J4000 series SC02B-J42SK-GHXR
	1	RS-485 BUS +	5 4 3 2 1
Communication connector	2-8	Unused	9 8 7 6
	9	RS-485 BUS -	9/8/7 <u>6</u> D-sub 9 pin (socket type) Holding screw: M2.6

Power Cable (Accessory)

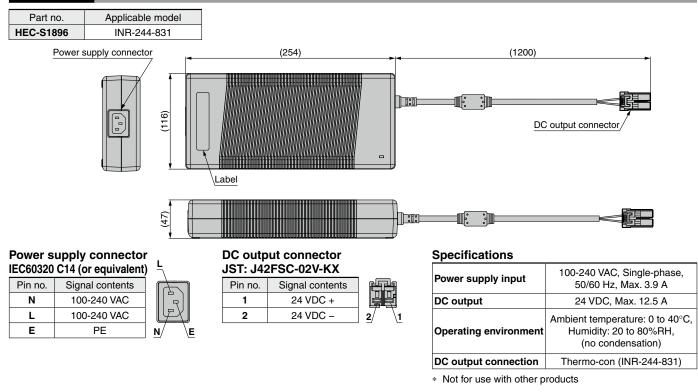
Connector: J42FSC-02V-KX (J.S.T. Mfg Co., Ltd.-made) Cable: 16AWG

Wire color	Contents
Brown	24 VDC +
Blue	24 VDC –

 (1000)

INR-244-831 Optional Accessories

AC adapter



▲The power supply cable can only be used for the applicable models shown below. Do not use it for other products.

Approx. 3 m

Approx. 100 mm

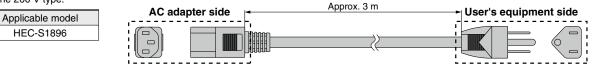
Power Supply Cable

For single-phase 100/115 VAC type

Not applicable for the 200 V type.

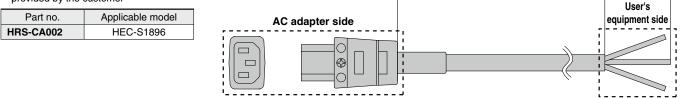
Part no.

HRS-CA001



■ For single-phase 200 VAC type

* Can also be used with the 100 V power type if a connector is provided by the customer



A Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.