Peltier-type Chiller

Thermo-con/ Compact Type Air-cooled

The INR-244-831 compact type thermo-con is to be discontinued as of December 2023. Consider selecting an HEF series compact type thermo-con as a substitute. Click here for details.

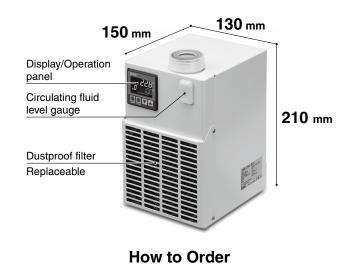




- Compact, Space saving
- **■** Refrigerant-free
- Low-noise design: 45 dBA (When selecting an option)
- Cooling capacity: 220 W
- Temperature stability:
 - ±0.01 to 0.03°C
- Set temperature range: 10°C to 60°C
- Fluid contact material: Stainless steel, Resin

(Aluminum and copper material-free)





INR-244-831

Option •

Nil	None	
X125	High pressure pump	
X126	Low noise fan	
X127	High pressure pump	
A121	Low noise fan	

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	
ا ۔ ا	Circulating fluid	Tap water, Ethylene glycol aqueous solution (20% or less)	
l e	Set temperature range	10.0 to 60.0°C (No condensation)	
) AS	Cooling capacity	220 W (Tap water)*1	
၂ ဗ	Heating capacity	500 W (Tap water)*1	
<u>≔</u>	Temperature stability	±0.01 to 0.03°C*2	
g [Pump capacity	Refer to the performance charts.	
Set temperature range Cooling capacity Heating capacity Temperature stability Pump capacity Tank capacity Port size Fluid contact		Approx. 110 mL	
		Rc1/4	
		Stainless steel, EPDM, NBR, Ceramics, PPE,	
	material	PPS, Carbon, PP, POM	
a a	Power supply	24 VDC ±10%	
Electrical system	Power consumption	12.5 A	
S E	Communications	RS-485	
We	eight	Approx. 4.5 kg	
No	ise 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/UKCA marking, UL (NRTL) standards	
	-	- ' '	

- *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.

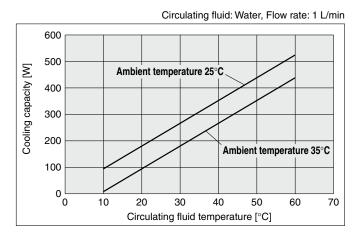
An AC adapter and a power supply cable suitable to this product are available as optional accessories. For details, refer to the back cover.

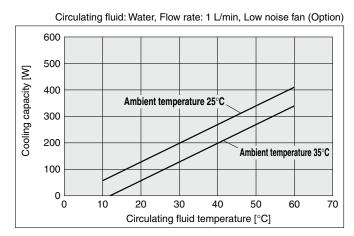




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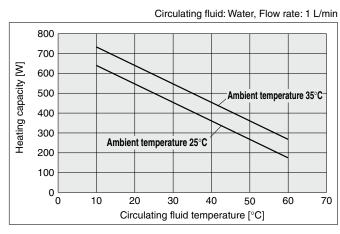
Cooling Capacity

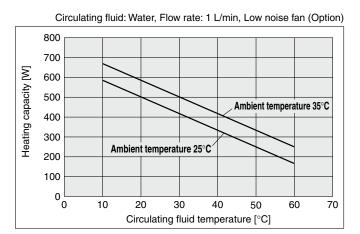




 $[\]ast\,$ For the high pressure pump (Option), the cooling capacity decreases by approx. 20 W.

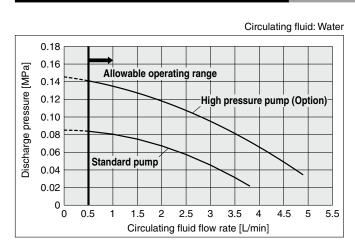
Heating Capacity



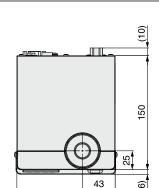


^{*} For the high pressure pump (Option), the heating capacity increases by approx. 10 W.

Pump Capacity (Thermo-con Outlet)

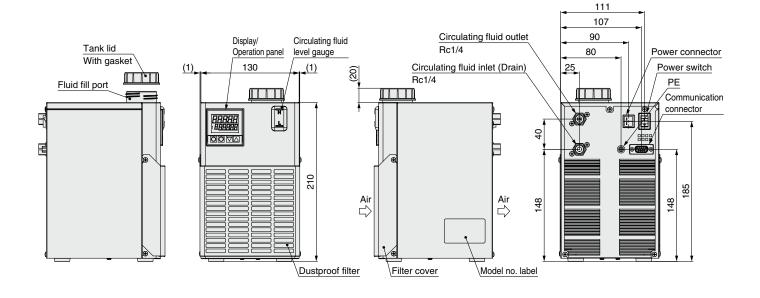


Dimensions



130



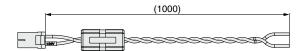


Connector name	No.	Signal contents	Connector type/Part no.
Power	1	24 VDC +	1 2
connector	2	24 VDC –	J.S.T. Mfg. Co., Ltd. JFA connector J4000 series SC02B-J42SK-GHXR
	1	RS-485 BUS +	5 4 3 2 1
Communication connector	2-8	Unused	9 8 7 6
	9	RS-485 BUS –	9/8/\7\6 D-sub 9 pin (socket type) Holding screw: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

Power Cable (Accessory)

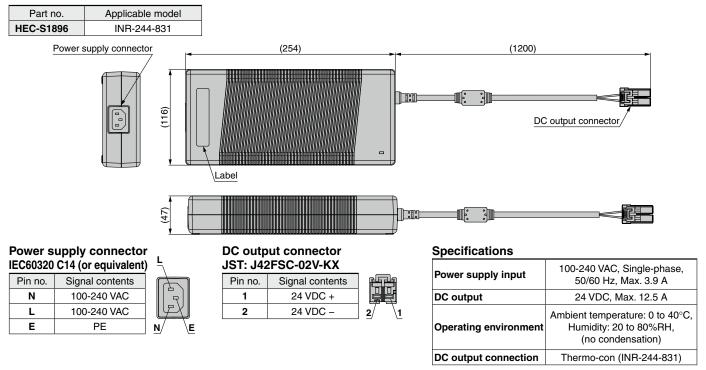
Connector: J42FSC-02V-KX (J.S.T. Mfg Co., Ltd.-made) Cable: 16AWG

Wire color	Contents
Brown	24 VDC +
Blue	24 VDC -



INR-244-831 Optional Accessories

AC adapter



^{*} Not for use with other products

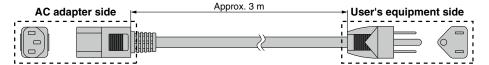
Power Supply Cable

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

■ For single-phase 100/115 VAC type

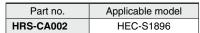
Not applicable for the 200 V type.

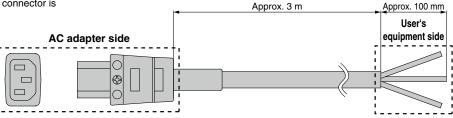
Part no.	Applicable model
HRS-CA001	HEC-S1896



■ For single-phase 200 VAC type

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





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