Thermo-chiller Fluorinated Fluid Type Series HRW



How to Order

Fluorinated Fluid Type HRW 002

Cooling capacity

Symbol	Cooling capacity
002	2 kW
800	8 kW
015	15 kW
030	30 kW

Temperature range setting

· P	3
Symbol	Temperature range setting
Н	68 to 194°F (20 to 90°C)

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Symbol	ool Option			
Nil	None			
С	Analog communication			
D	DeviceNet communication			
N	NPT fitting			
Z	Circulating fluid automatic recovery			

Pump inverter control

Symbol	Pump inverter control				
Nil	None				
S	Applicable (Pump inverter type)				

Specifications (For details, please consult our "Product Specifications" information.)

Model		Model	HRW002-H HRW002-HS	HRW008-H HRW008-HS	HRW015-H HRW015-HS	HRW030-H HRW030-HS		
Coo	Cooling method		Water-cooled					
Amb		emperature/humidity Note 1)	Temperature: 50 to 95°F (10 to 35°C), Humidity: 30 to 70%RH					
	Circ	ulating fluid Note 2)	Fluorinert™ FC-40/GALDEN® HT200					
	Tem	perature range setting Note 1)	68 to 194°F (20 to 90°C)					
	Coo	ling capacity (50/60 Hz common) (kW)	2	8	15	29		
tem	8	Circulating fluid temperature	Facility water temperature +27°F (15°C)					
sys	onditions	Facility water temperature	50 to 95°F (10 to 35°C)					
i		Circulating fluid rated flow	1.1 gpm (4 L/min)	7.9 gpm (30 L/min)	10.6 gpm (40 L/min)	10.6 gpm (40 L/min)		
] J#(Ŭ	Facility water required flow rate	2.6 gpm (10 L/min)	5.3 gpm (20 L/min)	6.6 gpm (25 L/min)	10.6 gpm (40 L/min)		
l iji		perature stability Note 3)	±0.54°F (±0.3°C)					
P		np capacity Note 4) (50/60 Hz)(MPa)	0.40/0.60 (at 4 L/min)	0.45/0.65 (at 30 L/min)	0.40/0.60 (at 40 L/min)	0.40/0.60 (at 40 L/min)		
Ë	Facility water temperature Facility water temperature Circulating fluid temperature Facility water temperature Circulating fluid rated flow Facility water required flow rate Temperature stability Note 3) Pump capacity Note 4) (50/60 Hz)(MPa) Circulating fluid flow range Note 5)(L/min)		0.8 to 4.2 gpm (3 to 16 L/min) 2.4 to 13.2 gpm (9 to 50 L/min)					
	Tank capacity Note 6)		Approx. 3.4 gal (13 L) Approx. 3.7 gal (14 L)			7 gal (14 L)		
	Circulating fluid recovery tank volume Note 7)		3.2 gal (12 L)					
	Port size		Rc3/4					
	_	ted parts material	Copper brazing (Heat exchanger), Stainless steel, EPDM, Silicone, PPS, Fluororesin					
<u>~</u>		perature range	50 to 95°F (10 to 35°C)					
Facility water system	Req	uired flow rate Note 8)	2.6 gpm (10 L/min)	5.3 gpm (20 L/min)	6.6 gpm (25 L/min)	10.6 gpm (40 L/min)		
sility wa	Inlet	pressure range	44 to 102 psi (0.3 to 0.7 MPa)					
aci	Port	size	Rc3/4					
	Wett	ted parts material	Copper brazing (Heat exchanger), Stainless steel, EPDM, Silicone, Bron					
<u></u>	Pow	er supply	3-phase 200/200 to 208 VAC ±10%					
Electrical	Max. operating current (A)		26					
Sys		aker capacity (A)	490	3	0			
	Communications		Serial RS-485 (D-sub 9 pin) and Contact input/output (D-sub 25 pin)					
Dimensions Note 9)			W15 in (380mm) x D26.2 in (665mm) x H33.9 in (860 mm)					
Weight Note 10)		e 10)	Approx. 198 lbs (90 kg)		· ''	Approx. 220 lbs (100 kg)		
Safe	Safety standards		UL, CE marking, SEMI (S2-0703, S8-1103, F47-0200), SEMATECH (S2-93, S8-95)					
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Note 1) It should have no condensation.

Note 2) Fluorinert™ is a trademark of 3M and GALDEN® is a registered trademark of Solvay Solexis, Inc. Regarding the fluid other than the above, please contact SMC.

Note 3) Outlet temperature when the circulating fluid and facility water are rated flow, and the circulating fluid outlet and return port are directly connected. Installation environment, power supply, and facility water are within specification range and stable. Value obtained 10 minutes after the external load is stabilized. It may be out of ±0.54°F (±0.3°C) in some other operating conditions.

Note 4) The capacity at the circulating fluid outlet when the circulating fluid temperature is 68°F (20°C). Pump capacity at 60 Hz indicates the maximum capacity of the HRW□□□-HS (pump inverter type).

Note 5) Applicable to the HRW III HS (pump inverter type) only.

Note 6) Minimum volume required for operating only the Thermo-chiller. (Circulating fluid temperature: 68°F (20°C), including the Thermo-chiller's internal pipings or heat exchanger)

exchanger)

Note 7) The automatic circulating fluid recovering function will be provided by selecting option Z for collecting the circulating fluid inside an external piping.

Note 8) Required flow rate for cooling capacity or maintaining the temperature stability.

Note 9) Panel dimensions. These dimensions do not include possible protrusions such as a

breaker handle.

Note 10) Weight in the dry state without circulating fluids

