

R407H

R407C

(Optional)

Refrigeration and freezing equipment for food preservation while maintaining freshness during voyages.

## Features

- ✓ Hermetic scroll compressor
- ✓ Cooling sea water and fresh water specifications
- ✓ Highly durable materials
- ✓ Low maintenance



## Eco-friendly

Low GWP HFC refrigerant R407H (GWP 1495)

Refrigerant that preserves safety, stability, and efficiency required as a marine refrigerant. R407H offers high performance with low environmental impact, and is able to procure around the world.



## Extensive Line-up

Sea water and fresh water selection according to the application

An extensive line-up of sea water and fresh water specifications is available. For each cooling system, qualified materials are selected to fit the application.



## High Durability Material

Cupronickel for sea water condenser cooling tube

Enhanced durability of the cooling pipe by using a material with strong corrosion resistance and sea water resistance.



## Improved Maintainability

Removable method applied for sea water flange

The sacrificial anode can be easily replaced by using a flange type that contributes to reduce the time of maintenance.



# REFRIGERATION CONDENSING UNIT

Refrigerant	Compressor	Cooling Water Type	Line-ups
R407H R407C ※	Hermetic Scroll Type	Sea Water/Fresh Water	4HP/5HP/8HP

## Sea Water Specifications

HORSEPOWER			4HP	5HP	8HP	
MODEL			RHSH4LB	RHSH5LB	RHSH8LB	
POWER SUPPLY (CONTROL CIRCUIT)			3 Phase AC 380-400/440V 50/60 Hz (Single Phase AC 100/110V 50/60Hz)			
PAINTING COLOR			New Light Blue (7.5 BG 7/2), DK Black (N1)			
DIMENSIONS	H x W x D	mm	1031 × 1264 × 514	1031 × 1464 × 514	1057 × 1750 × 514	
★1 REFRIGERATING CAPACITY			kW	4.6	6	7.6
ELECTRIC CHARACTERISTICS (440V/60Hz)	STARTING CURRENT		A	48	58	66
	RUNNING CURRENT		A	5.2	6.2	7.8
	POWER CONSUMPTION		kW	3.52	4.25	5.62
	OVERCURRENT RELAY SETPOINT		A	7.5	8.5	13
CAPACITY STEP		%	100-67-0	100-67-0	100-67-0	
WATER FLOW RATE		t/min	48	74	76	
HEAD LOSS		kPa	11.1	32.1	33.0	
COMPRESSOR (50/60Hz)	TYPE		Hermetic Scroll Compressor			
	SPEED		r/min	2900/3450		
	MOTOR POWER		kW	3.00 × 1	3.75 × 1	4.50 × 1
	STARTING METHOD		Direct Start			
WATER COOLED CONDENSER	TYPE		Water Cooled Shell And Low Fin Tube			
	MATERIAL	TUBE	Cupronickel Tube(C70600)			
		SHELL	Steel Tube(20)			
		TUBE PLATE	Naval-Steel Clad (Q345R + HSn62 -1)			
	INNER VOLUME(REF. SIDE)		ℓ	27.3	33.1	42.0
	INNER VOLUME(WATER SIDE)		ℓ	4.7	5.2	5.7
OIL SEPARATOR	TYPE		Cyclone Type	Cyclone Type	Demister Type	
ACCUMULATOR	INNER VOLUME		ℓ	7.24	7.24	7.23
PROTECTIVE DVICE			Compressor Thermal Protector,Thermostat for Discharge Pipe, Safty Valve, High Pressure Switch,Low Pressure Switch, Over Current Relay,Reverse Phase Protector			
PIPING CONNECTION	LIQUID PIPE		φ 9.5 Flare Connection	φ 9.5 Flare Connection	φ 12.7 Flare Connection	
	GAS SUCTION PIPE		φ 19.1 Flare Connection	φ 22.2 Flare Connection	φ 25.4 Flange Connection	
	WATER IN/OUTLET		1 1/2B(with JIS 5K Compantion Flange)			
REFRIGERANT	KIND		R407H			
REFRIGERANT OIL	KIND		DAPHNE FVC46D			
	CHARGED		ℓ	2	2	2.3
MACHINE WEIGHT			kg	165	175	195
STANDARD SPARE PARTS			Thermometer × 2, Flange for Chilled Water In/Outlet × 2	Thermometer × 2, Flange for Chilled Water In/Outlet × 2	Thermometer × 2, Flange And Gasket for Gas Suction Pipe × 1 Flange for Chilled Water In/Outlet × 2	

## Fresh Water Specification

HORSEPOWER			4HP	5HP	8HP
MODEL			RHSH4LB-C	RHSH5LB-C	RHSH8LB-C
WATER COOLED CONDENSER	TYPE	Water Cooled Shell And Low Fin Tube			
	MATERIAL	TUBE	Copper Tube (C12200)		
		SHELL	Steel Tube(20)		
		TUBE PLATE	Steel(Q345R)		
	INNER VOLUME(REF. SIDE)	ℓ	27.3	33.1	42
	INNER VOLUME(WATER SIDE)	ℓ	4.7	5.2	5.7
MACHINE WEIGHT		kg	160	170	190

★1. Refrigerating capacity is based on the evaporating temperature(middle temp.): -20°C, and inlet temperature of cooling water:32°C. The power supply is 440v/60Hz.

※Refrigerant R407C is optional.

## Contact

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