

R407H

R407C

(Optinal)

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

Features

- ✓ Hermetic scroll compressor
- ✓ Eco-friendly and quiet design
- ✓ Highly durable materials
- ✓ Low maintenance

POINT 1

Eco-friendly

Low GWP HFC refrigerant R407H (GWP 1495)

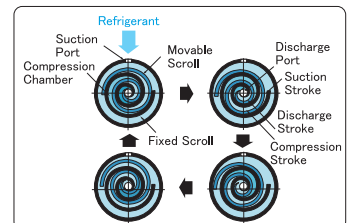
Eco-friendly refrigerant that preserves safety, stability, and efficiency required as a marine refrigerant. R407H offers high performance with low environmental impact, and is able to procure around the world.

POINT 2

Low Noise Design

Hermetic scroll compressor with low noise and operation vibration

Operating noise and vibration are reduced to about 1/2 of conventional models. Multiple compressors operation enables accurate control, reduced maintenance, and improved comfort.



POINT 3

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.

POINT 4

High Durability

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.

POINT 5

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 [RHS\*LA]

HORSEPOWER		4HP		5HP		8HP	
MODEL		RHSH4LA		RHSH5LA		RHSH8LA	
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 x 1264 x 514		1031 x 1464 x 514		1057 x 1750 x 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 x 1		3.75 x 1		4.50 x 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 DIVICE		Compressor Thermal Protector, Thermostat for Discharge Pipe, Safety 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 x 2, Flange for Chilled Water In/Outlet x 2		Thermometer x 2, Flange for Chilled Water In/Outlet x 2		Thermometer x 2, Flange And Gasket for Gas Suction Pipe x 1 Flange for Chilled Water In/Outlet x 2	

## Fresh Water Specification [RHS\*LA-C]

HORSEPOWER		4HP		5HP		8HP	
MODEL		RHSH4LA-C		RHSH5LA-C		RHSH8LA-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

### DAIKIN MR ENGINEERING CO., LTD.

[Head Office] Shin Osaka Central Tower 11F, 5-5-15 Nishinakajima, Yodogawa-ku, Osaka 532-0011 JAPAN

大金船舶空调贸易(上海)有限公司  
**DAIKIN MARINE (SHANGHAI) CO., LTD**

19/G No.1 Plaza, 800 Nanjing Road(E) Shanghai 200001 China

**DAIKIN MR ENGINEERING CO., LTD.**  
**SINGAPORE BRANCH**

10 Anson Road, #05-01, International Plaza, Singapore 079903

<https://www.dmre.daikin.co.jp/english/>