



R407C

R407H

(Optional)

Independent air conditioning system for rooms and workspaces.

Features

- Compact design
- Hermetic scroll compressor
- Low vibration and noise

Refrigerant	Compressor	Line-ups
R407C R407H ※	Hermetic Scroll Type	3HP/5HP/8HP/10HP/15HP/20HP

R407C Series

HORSEPOWER	MODEL	3HP	5HP	8HP	10HP	15HP	15HP	20HP	20HP	
		USP3H	USP5H	USP8HB	USP10HB	USPC15HB	USPG15HB	USPC20HB	USPG20HB	
POWER	MAIN CIRCUIT	3 Phase AC 380/400/415/400/440V 50/60Hz			3 Phase AC 400V/440V 50Hz/60Hz					
	CONTROL CIRCUIT	1 Phase AC 200/200/220V 50Hz/60Hz			1 Phase AC 200/220V 50Hz/60Hz					
PAINTING COLOR		New Light Blue(7.5BG7/2)								
DIMENSIONS		mm								
		1472 × 800 × 410	1670 × 1050 × 550	1680 × 1350 × 600	1680 × 1350 × 750	1685 × 1600 × 1030	1685 × 1600 × 850	1685 × 1600 × 1030	1685 × 1600 × 850	
★1	COOLING CAPACITY (50/60Hz)	kW	9.0/10.0	15.0/17.0	22.4/25.0	30.0/33.5	45.0/50.0	60.0/67.0		
	COOLING WATER FLOW RATE (50/60Hz)	ℓ/min	42/45	71/77	91/98	120/130	207/225	275/300		
	HEAD LOSS (50/60Hz)	kPa	12.7/14.7	18.6/21.6	11.8/13.7	13.7/15.7	12.3/14.2	12.3/14.2		
COMPRESSOR	TYPE	Hermetically Sealed Scroll Type								
	MOTOR POWER × Q'TY	kW	3.0 × 1	3.75 × 1	5.5 × 1	7.5 × 1	5.5 × 2	7.5 × 2		
WATER COOLING CONDENSER	TYPE	Water Cooled Shell and Finned Tube								
	MATERIAL	TUBE/FIN	Cooper Alloy Seamless Tube(C6871T)/ Aluminium Fins(A1050R-24H)							
		SHELL	Steel Tube(STPG370)				Steel Tube(KSTPG38)			
		TUBE PLATE	Nabal Clad(C4621P+SM400B)				Nabal Clad(C4621P+KPV24)			
EVAPORATOR	TYPE	Cross Fin Coil Type								
	MATERIAL	Copper Tubes/Aluminium Fins								
FAN	MOTOR OUTPUT × POLES	kW	0.4 × 4	0.4 × 4	0.75 × 4	2.2 × 4	3.7 × 4	5.5 × 4		
	AIR FLOW RATE (50/60Hz)	m ³ /min	22/27	42/50	50/60	67/80	100/120	135/160		
AIR FILTER		Polyvinyl Chloride Fiber (Washable)								
REFRIGERANT CONTROL		Thermostatic Expansion Valve								
TEMPERATURE CONTROL		Thermostat								
CAPACITY STEP		100-0				100-50-0				
PROTECTIVE DEVICES		Over-current Relay (For Comp. & Fan Motor), Reverse Phase Protector High Pressure Switch, Low Pressure Switch, Comp.Motor Protection Thermostat								
THERMAL & SOUND ISOLATOR		Glass Fiber								
PIPING CONNECTION	CHILLED WATER INLET/OUTLET	1B	1 1/2B		2B	2 1/2B				
	UPPER/LOWER DRAIN OUTLET	3/4B	1B (PS 1)			1B				
REFRIGERANT	KIND	R407C								
	CHARGED	kg	2.2	3.5	5.0	5.9	10.0	11.2		
MACHINE WEIGHT		kg	165	230	350	445	610	600	760	750
APPLIED STANDARD								NK (Water Cooling Condenser)		
STANDARD ACCESSORIES		Spare Parts					Fuse			

R407H Series

HORSEPOWER	MODEL	3HP	5HP	8HP	10HP	15HP	15HP	20HP	20HP	
		USP3HR	USP5HR	USP8HBR	USP10HBR	USPC15HBR	USPG15HBR	USPC20HBR	USPG20HBR	
REFRIGERANT KIND		R407H								
★1	COOLING CAPACITY (50/60Hz)	kW	9.0/10.0	15.0/17.0	22.4/25.0	30.0/33.5	45.0/50.0	45.0/50.0	60.0/67.0	60.0/67.0

R407C & R407H Series [200V(50/60Hz)]

HORSEPOWER	MODEL	3HP	5HP	8HP	10HP	3HP	5HP	8HP	10HP	
		USP3HTG	USP5HTG	USP8HBTG	USP10HBTG	USP3HTGR	USP5HBTGR	USP8HBTGR	USP10HBTGR	
REFRIGERANT KIND		R407C				R407H				
POWER	MAIN CIRCUIT	3 Phase AC 200/200, 220V 50/60Hz								
	CONTROL CIRCUIT	1 Phase AC 200/200, 220V 50/60Hz								
★1	COOLING CAPACITY (50/60Hz)	kW	9.0/10.0	15.0/17.0	22.4/25.0	30.0/33.5	9.0/10.0	15.0/17.0	22.4/25.0	30.0/33.5
FAN	EXTERNAL STATIC PRESS (50/60Hz)	Pa	142/186	195/285	250/365	335/505	142/186	195/285	250/365	335/505

★1: Evaporator inlet air temp. 27°C D.B., 19.5°C W.B., Condenser inlet temp. 32°C.
 ※Refrigerant R407H is optional.



R407C

R407H

(Optional)

Independent air conditioning system providing 100% fresh air for ship galley.



- Compact design
- Hermetic scroll compressor
- 100% fresh air supply system

Refrigerant	Compressor	Line-ups
R407C R407H ※	Hermetic Scroll Type	3HP/5HP/8HP

R407C & R407H Series

HORSEPOWER			3HP	5HP	8HP	3HP	5HP	8HP
MODEL			USFP3JB	USFP5JC	USFP8JC	USFP3JBR	USFP5JCR	USFP8JCR
REFRIGERANT KIND			R407C			R407H		
POWER	MAIN CIRCUIT		3 Phase AC 440V 60Hz					
	CONTROL CIRCUIT		1 Phase AC 220V 60Hz					
PAINTING COLOR			New Light Blue(7.5BG7/2)					
DIMENSIONS	H×W×D	mm	1662×800×410	1670×1050×550	1680×1350×600	1662×800×410	1670×1050×550	1680×1350×600
★1 COOLING CAPACITY		kW	13.0	19.0	32.0	13.0	19.0	32.0
COOLING WATER FLOW RATE		ℓ/min	45	65	98	45	65	98
HEAD LOSS		kPa	14.7	15.6	13.7	14.7	15.6	13.7
COMPRESSOR	TYPE		Hermetically Sealed Scroll Type					
	MOTOR POWER×Q'TY		kW	3×1	3.75×1	5.5×1	3×1	3.75×1
WATER COOLING CONDENSER	TYPE		Water Cooled Shell and Finned Tube					
	MATERIAL	TUBE/FIN	Cooper Alloy Seamless Tube(C6871T)/ Aluminium Fins(A1050R-24H)					
		SHELL	Steel Tube (STPG370)					
	TUBE PLATE		Nabal Clad(C4621P+SM400B)					
EVAPORATOR	TYPE		Cross Fin Coil Type					
	MATERIAL	TUBE/FIN	Copper Tubes/Aluminium Fins					
FAN	TYPE		Multi Blade Fan					
	AIR FLOW RATE	m ³ /min	12	20	30	12	20	30
	MOTOR OUTPUT×POLES	kW×P	0.4×4	0.75×4	1.5×4	0.4×4	0.75×4	1.5×4
AIR FILTER	Polyvinyl Chloride Fiber (Washable)							
REFRIGERANT CONTROL	Thermostatic Expansion Valve							
TEMPERATURE CONTROL	Thermostat							
CAPACITY STEP	100-0							
PROTECTIVE DEVICES	Over-current Relay (For Comp. & Fan Motor), Fusible Plug Reverse Phase Protector High Pressure Switch, Low Pressure Switch, Comp.Motor Protection Thermostat							
THERMAL & SOUND ISOLATOR	Glass Fiber							
PIPING CONNECTION	CHILLED WATER INLET/OUTLET		1B	1 1/2B	1 1/2B	1B	1 1/2B	1 1/2B
	UPPER/LOWER DRAIN OUTLET		3/4B(PS 3/4)	1B(PS 1)	1B(PS 1)	3/4B(PS 3/4)	1B(PS 1)	1B(PS 1)
REFRIGERANT CHARGED		kg	2.1	3.1	6.3	2.1	3.1	6.3
MACHINE WEIGHT		kg	170	255	360	170	255	360
STANDARD ACCESSORIES	Spare Parts							

※Refrigerant R407H is optional. ★1:Evaporator inlet air temp. 35°CDB., and 30°CWB.,Condenser inlet temp. 32°C.

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