





Steam heater

Strong against sea breeze

and well prepared for the

damage by drain water.

[UCCP]

R407H



Large marine type air conditioner to provide comfortable air to each room.

Designed for flexible installation. Maintenance-saving and energy-saving specifications for eco-friendly air conditioning onboard.



High-performance Centrifugal fan strong against salt damage and exerts high static pressure.

Hermetic scroll compressor

with excellent durability and efficiency



Eco-friendly

Low GWP HFC refrigerant R407H (GWP1495)

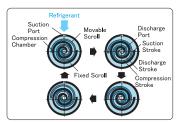
Eco-friendly refrigerant that preserves safety, stability, and efficiency required as a marine refrigerant. R407H offers high performance with low environmental impact, and is able to procure around the world.



Low Noise Design

Hermetic scroll compressor with low noise and operating vibration

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





Flexible Installation

Equipped with high static pressure fan with easy deployment of long duct

By adopting high static pressure fans, long duct can be easily deployed. Less restrictions on the number and shape of outlets enables flexible design



High Durability

Cupronickel adopted for the condenser cooling tube

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



compressor for easier and safer

exchange on board.

DECK UNIT



HORSEPOWER				25HP	30HP	40HP	50HP	
MODEL	MODEL			UCCP85C	UCCP100C	UCCP135C	UCCP165C	
POWER	MAIN CIRC	UIT		3 Phase AC 380/440V 50/60 Hz				
FOWLIN	CONTROL CIRCUIT			1 Phase AC 110V 50/60Hz				
PAINTING COLOR				New Light Blue (7.5 BG 7/2), Black				
DIMENSIONS	III X III X B		mm	1650 × 2000 × 1250	1650 × 2000 × 1250	1550 × 2000 × 1800	1550 × 2000 × 1800	
			kW	80/90	90/106	125/140	143/163	
★2 COOLING WATER FLOW RATE (50/60Hz) L/min				275/300	330/360	440/480	540/600	
★3 HEATING CAPACITY kW				106	132	170	200/212	
★4 HUMIDIFYING CAPACITY kg/h			-	30	36	48	60	
			kPa	6/7	8/9	9.0/10.0	12.0/16.0	
COMPRESSOR (50/60Hz)	TYPE			Hermetic Scroll Type				
			r/min					
	MOTOR POWER		kW	9.0 × 2	7.5 × 3	7.5 × 4	9.0 × 4	
	RATED CURRENT		Α	$18.6 \times 2/20.4 \times 2$	15.9 × 3/18.0 × 3	$15.9 \times 4/18.0 \times 4$	18.6 × 4/20.4 × 4	
	STARTING MANNER			Direct Start				
WATER COOLING CONDENSER	TYPE			Water cooled shell & tube				
	MATERIAL	TUBE		Cupronickel (UNS70600)				
		SHEL		Carbon Steel Pipe for Pressure Piping (20 (GB 8163))				
		TUBE PLATE		Titanium Clad (Q345R+TA2)				
EVAPORATOR	TYPE			Crossfincoil type				
	MATERIAL	TUBE		Copper Tubes				
		FIN		Aluminium Fins				
FAN (50/60Hz)	TYPE			Centrifugal Fan				
	AIR FLOW RATE		m³/min	140/140	165/165	220/220	255/270	
			Pa	870/1400	870/1520	920/1700	860/1630	
	MOTOR POWER		kW	7.5	7.5	11	15	
	RATED CURRENT		Α	9.5/10.9	10.5/12.7	14.9/18.4	17.2/21.2	
	DRIVE			Belt Drive				
HEATER	TYPE			Crossfincoil type				
MATERIAL				Copper Pipes, Aluminium Fins				
HUMIDIFIER				Steam Spray Type				
AIR FILTER				Nylon Mesh				
REFRIGERANT CONTROL				Thermostatic expansion value				
TEMPERATURE CONTROL				Thermometer(ALE-SD22-011Q23)				
CAPACITY STEP %				100-50-0	100-67-0 or 100-33-0	100-50-0	100-50-0	
PROTECTIVE DEVICES				Circuit Breaker(For Comp.& Fan Motor),Overload Protector(For Comp.&Fan Motor),Reverse Phase Protector , High Pressure Switch, Low Pressure Switch , Comp. Protection Thermostat , Freeze-up Protection Thermostat , Low Temperature Protection , Safety Valve				
THERMAL&SOUND ISOLATOR				CLASS 1 FLEX(NBR/PVC)				
PIPING	CHILLED WATER INLET/OUTLET			3B(80A)				
CONNECTION	UPPER DRAIN OUTLET			1 1/4B(32A)				
	LOWER DRAIN OUTLET			1B(25A)				
REFRIGERANT	KIND			R407H				
	INITIAL CHARGED kg		-	11				
	ADDITIONAL CHARGED		kg	5	6	14	14	
	KIND			DAPHNE FVC68D				
	CHARGED		L	2.7 × 2	2.7 × 3	2.7 × 4	2.7 × 4	
			kg	1200	1270	1640	1690	
OPERATING MAS			kg	1230	1300	1680	1730	
STANDARD ACCESSORIES				Fuse(250V x 1,500V x 1),Ther	mometer x 2, Bottom Drain Pip	e x 1, Cooling Water Inlet and (Jutlet Pipe For Gas Soclet x :	

- ★1.Evaporator inlet temperature and humidity:31°C D.B., 24°C W.B.(Not include the heat generated by the electric motor.)
- ★2.Cooling water inlet temperature condition is at 32°C.
- \bigstar 3.Heater inlet conditions are when the air inlet temperature is 10°C D.B. and the inlet steam is 0.4MPa at 60Hz.
- \bigstar 4.The humidifier capacity is when steam is saturated at 0.035 MPa.
- ※Refrigerant R407C is optional.

Contact

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