

1. Specification

Big Ceiling

Model Name	Indoor Unit			AC120RNCDKG/EU	AC140RNCDKG/EU	AC140RNCDKG/EU	
	Outdoor Unit			AC120RXADNG/EU	AC140RXADKG/EU	AC140RXADNG/EU	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	3.0 / 12.0 / 13.5	3.5 / 13.4 / 15.5	3.5 / 13.4 / 15.5	
			Btu/h	10,240 / 41,000 / 46,100	11,940 / 45,720 / 52,900	11,940 / 45,720 / 52,900	
		Heating	kW	3.8 / 13.2 / 16.5	3.5 / 15.5 / 18.0	3.5 / 15.5 / 18.0	
			Btu/h	12,970 / 45,040 / 56,300	11,940 / 52,900 / 61,420	11,940 / 52,900 / 61,420	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.90 / 4.15 / 5.50	0.80 / 4.50 / 6.45	0.80 / 4.50 / 6.60	
		Heating	kW	0.70 / 3.80 / 6.40	0.70 / 4.54 / 7.36	0.70 / 4.54 / 7.50	
	Current Input (Min/Std/Max)	Cooling	A	1.7 / 6.6 / 10.0	3.7 / 19.7 / 28.0	2.1 / 7.0 / 10.5	
		Heating	A	1.5 / 6.2 / 12.0	3.5 / 19.8 / 32.0	1.9 / 7.0 / 12.0	
	Current	MCA	A	18.6	34.5	18.6	
		MFA	A	18.6	40.0	18.6	
Efficiency	EER	Cooling	-	2.89	2.97	2.97	
	COP	Heating	-	3.47	3.41	3.41	
	SEER (Cooling Energy Grade)		-	5.9 (A+)	6.1 (-)	6.1 (-)	
	SCOP (Heating Energy Grade)		-	4.0 (A+)	4.0 (-)	4.0 (-)	
	Pdesignh		kW	6.5	8.4	8.4	
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	
			Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	
			Φ, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
	Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	
	Piping length (ODU-IDU)	Standard	m	5	5	5	
		Max.	m	50	75	75	
Elevation		m	30	30	30		
Chargeless		m	30	30	30		
Wiring connections	Communication	Min.	mm ²	0.75	0.75	0.75	
		Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	R32	
	Factory Charging	kg	2.7	2.9	2.9		
		tCO ₂ e	1.82	1.96	1.96		

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	Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50		
	Heat Exchanger		Type		-	F&T	F&T	F&T	
			Material		Fin	-	Al	Al	Al
					Tube	-	Cu	Cu	Cu
			Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	
	Fan		Type		-	Sirocco	Sirocco	Sirocco	
			Quantity		EA	4	4	4	
			Air Flow Rate		Cooling (H/M/L)	m ³ /min	30.0 / 24.0 / 20.0	34.0 / 27.0 / 23.0	34.0 / 27.0 / 23.0
					Heating (H/M/L)	l/s	500 / 400 / 333	567 / 450 / 383	567 / 450 / 383
						m ³ /min	32.0 / 26.0 / 22.0	34.0 / 27.0 / 23.0	34.0 / 27.0 / 23.0
	l/s	533 / 433 / 366			567 / 450 / 383	567 / 450 / 383			
	Fan Motor		Type		-	BLDC	BLDC	BLDC	
			Output		W x n	244 x 1	244 x 1	244 x 1	
	Drain		Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	VP-25(OD32, ID25)	
	Sound		Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	44 / 41 / 37	46 / 42 / 38	46 / 42 / 38	
			Sound Power Level		dB(A)	62	64	64	
	External Dimension		Net Weight		kg	41.5	41.5	41.5	
			Shipping Weight		kg	48.0	48.0	48.0	
			Net Dimensions (WxHxD)		mm	1,650 x 235 x 675	1,650 x 235 x 675	1,650 x 235 x 675	
			Shipping Dimensions (WxHxD)		mm	1,739 x 321 x 758	1,739 x 321 x 758	1,739 x 321 x 758	
	Casing		Material		-	GI Steel Plate	GI Steel Plate	GI Steel Plate	
	Control System		Infrared remote control		-	AR-EH03E	AR-EH03E	AR-EH03E	
			Wired remote control		-	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	MWR-WE13N MWR-WG00*N	
	Drain Pump		Drain Pump		-	-	-	-	
			Max. lifting Height / Displacement		mm / Liter / h	-	-	-	
	Additional Accessories		Drain Pump		External Model	-	-	-	
Internal Model					-	-	-		
Max. lifting Height / Displacement			mm / Liter / h	-	-	-			
Air Filter			-	Removable / Washable	Removable / Washable	Removable / Washable			
Virus Doctor		-	Option	Option	Option				

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Power Supply		Ø, #, V, Hz		3, 4, 380-415, 50	1, 2, 220-240, 50	3, 4, 380-415, 50
Heat Exchanger	Type		-	Fin & Tube	Fin & Tube	Fin & Tube
	Material	Fin	-	Al	Al	Al
		Tube	-	Cu	Cu	Cu
Fin Treatment		-		Anti-Corrosion	Anti-Corrosion	Anti-Corrosion
Compressor	Model Name		UB5TN5450FJX			UB5TN5450FJX
	Type		-		Twin BLDC	Twin BLDC
	Output		kW		4.25	4.25
	Oil	Type	-		POE	POE
Initial charge		cc		1,700	1,700	
Fan	Type		-		Propeller	Propeller
	Discharge direction		-		Front	Front
	Quantity		EA		1	2
	Air Flow Rate		m ³ /min		72	110
l/s			1,200	1,833		
Fan Motor	Type		-		BLDC Motor	BLDC Motor
	Output		W x n		125 x 1	125 x 2
Sound	Sound Pressure Level	Cooling	dB(A)		54	53
		Heating	dB(A)		56	54
	Sound Power Level		dB(A)		70	69
External Dimension	Net Weight		kg		80.0	91.5
	Shipping Weight		kg		85.0	100.0
	Net Dimensions (WxHxD)		mm		940 x 998 x 330	940 x 1,210 x 330
	Shipping Dimensions (WxHxD)		mm		995 x 1,096 x 426	995 x 1,388 x 426
Casing	Material	Body		-		EGI Steel Plate
					EGI Steel Plate	EGI Steel Plate
Operating Temp. Range	Cooling		°C		-15 ~ 50	-15 ~ 50
	Heating		°C		-20 ~ 24	-20 ~ 24

NOTE

- Specification may be subject to change without prior notice.
 - 1) Performances are based on the following test conditions.
 - Cooling : Indoor temperature 27°C DB, 19°C WB, Outdoor temperature 35°C DB, 24°C WB
 - Heating : Indoor temperature 20°C DB, 15°C WB, Outdoor temperature 7°C DB, 6°C WB
 - Equivalent refrigerant pipe length 5m, Level differences 0m
 - 2) Select wire size based on the value of MCA
 - 3) Sound pressure level is obtained in an anechoic room.
 - Sound pressure level is a relative value, depending on the distance and acoustic environment.
 - Sound pressure level may differ depending on operation condition.
 - dBA = A-weighted sound pressure level
 - Reference acoustic pressure 0 dB = 20uPa
 - 4) Sound power level is an absolute value that a sound source generates.
 - dBA = A-weighted sound power level
 - Reference power : 1pW
 - Measured according to ISO 3741
 - 5) These products contain R32(GWP=675) which is fluorinated greenhouse gas.
 - 6) 'MWR-WG00*N' is new wired remote control type(Graphic).
If you need the latest control system information, please refer to SAC control TDB.