

1. Specification

MSP Duct

Model Name	Indoor Unit			AC035RNMDKG/EU	AC052RNMDKG/EU	AC071RNMDKG/EU	
	Outdoor Unit			AC035RXADKG/EU	AC052RXADKG/EU	AC071RXADKG/EU	
Mode				-	HEAT PUMP	HEAT PUMP	HEAT PUMP
Performance	Capacity (Min/Std/Max)	Cooling	kW	0.80 / 3.50 / 4.40	1.20 / 5.00 / 6.50	1.50 / 6.80 / 8.70	
			Btu/h	2,730 / 11,940 / 15,010	4,100 / 17,060 / 22,180	5,120 / 23,200 / 29,690	
		Heating	kW	1.10 / 4.00 / 4.70	1.10 / 6.00 / 7.20	1.90 / 8.00 / 9.00	
			Btu/h	3,750 / 13,650 / 16,040	3,750 / 20,470 / 24,570	6,480 / 27,300 / 30,710	
Power	Power Input (Min/Std/Max)	Cooling	kW	0.20 / 1.02 / 1.36	0.35 / 1.60 / 2.20	0.35 / 2.32 / 3.60	
		Heating	kW	0.24 / 1.15 / 1.80	0.26 / 1.64 / 2.70	0.35 / 2.50 / 3.95	
	Current Input (Min/Std/Max)	Cooling	A	1.4 / 5.0 / 6.2	2.1 / 7.2 / 10.0	2.0 / 10.4 / 16.0	
		Heating	A	1.3 / 5.4 / 10.5	1.7 / 7.4 / 12.0	2.0 / 10.8 / 17.0	
	Current	MCA	A	12.5	19.0	19.0	
		MFA	A	13.8	20.9	20.9	
Efficiency	EER	Cooling	-	3.43	3.13	2.93	
	COP	Heating	-	3.48	3.66	3.20	
	SEER (Cooling Energy Grade)		-	6.4 (A++)	6.3 (A++)	6.1 (A++)	
	SCOP (Heating Energy Grade)		-	4.1 (A+)	4.1 (A+)	4.0 (A+)	
	Pdesignh		kW	2.0	2.4	3.7	
Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection	Flare connection	
			Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	
	Gas Pipe		Type	Flare connection	Flare connection	Flare connection	
			Φ, mm (inch)	9.52 (3/8)	12.7 (1/2)	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.	20	30	50	
Elevation			15	20	30		
Chargeless			20	10	15		
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	0.9	1.2	1.7		
		tCO ₂ e	0.61	0.81	1.15		

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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	
	Material	Fin	-	Al	Al	
		Tube	-	Cu	Cu	
Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile	
Fan	Type		-	Sirocco	Sirocco	
	Quantity		EA	2	2	
	Air Flow Rate	Cooling (H/M/L)	m ³ /min	10.4 / 9.2 / 8.0	14.5 / 12.0 / 9.5	17.0 / 14.0 / 11.0
			l/s	173.3 / 153.3 / 133.3	241.6 / 200 / 158.3	283.3 / 233.3 / 183.3
		Heating (H/M/L)	m ³ /min	10.4 / 9.2 / 8.0	14.5 / 12.0 / 9.5	17.0 / 14.0 / 11.0
			l/s	173.3 / 153.3 / 133.3	241.6 / 200 / 158.3	283.3 / 233.3 / 183.3
External Static Pressure	Min/Std/Max	mmAq	0.0 / 2.5 / 15.0	0.0 / 3.0 / 15.0	0.0 / 3.0 / 15.0	
		Pa	0.0 / 25.0 / 147.0	0.0 / 29.0 / 147.0	0.0 / 29.0 / 147.0	
Fan Motor	Type		-	BLDC	BLDC	
	Output		W x n	153	153	
Drain	Drain Pipe		Φ, mm	VP-25(OD32, ID25)	VP-25(OD32, ID25)	
Sound	Sound Pressure Level	High/Mid/Low/(Silent)	dB(A)	28 / 25 / 22	29 / 26 / 23	
	Sound Power Level		dB(A)	52	55	
External Dimension	Net Weight		kg	26.5	26.5	
	Shipping Weight		kg	30.5	30.5	
	Net Dimensions (WxHxD)		mm	850 x 250 x 700	850 x 250 x 700	
	Shipping Dimensions (WxHxD)		mm	1,064 x 320 x 784	1,064 x 320 x 784	
Casing	Material		-	EGI Steel Plate	EGI Steel Plate	
Control System	Infrared remote control		-	AR-EH03E	AR-EH03E	
	Wired remote control		-	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	-	MDP-G075SP	MDP-G075SP	
		Internal Model	-	MDP-G075SQ	MDP-G075SQ	
		Max. lifting Height / Displacement	mm / Liter / h	750/24	750/24	
	Air Filter		-	Removable / Washable	Removable / Washable	
Virus Doctor		-	Option	Option		

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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		-	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		-	UB9AK5090FER	UB9TK3150FE4	UB4TN8200FE4
	Type		-	Single BLDC	Twin BLDC	Twin BLDC
	Output		kW	0.86	1.51	1.89
	Oil	Type	-	POE	POE	POE
		Initial charge	cc	320	500	650
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Front	Front	Front
	Quantity		EA	1	1	1
	Air Flow Rate		m ³ /min	30	40	51
l/s			500	667	850	
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	40 x 1	125 x 1	125 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	48	48	49
		Heating	dB(A)	48	48	51
	Sound Power Level		dB(A)	61	62	65
External Dimension	Net Weight		kg	32.5	43.5	51.0
	Shipping Weight		kg	35.5	46.5	55.0
	Net Dimensions (WxHxD)		mm	790 x 548 x 285	880 x 638 x 310	880 x 798 x 310
	Shipping Dimensions (WxHxD)		mm	913 x 622 x 371	1,023 x 742 x 413	1,023 x 896 x 413
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	EGI Steel Plate
	Operating Temp. Range		°C	-15 ~ 46	-15 ~ 50	-15 ~ 50
		Heating	°C	-20 ~ 24	-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.