

1. Specification

AR9500

	Model Name	Indoor Unit		AR09TXEAAWKNEU	AR12TXEAAWKNEU	AR18TXEAAWKNEU		
		Outdoor Unit		AR09TXEAAWKXEU	AR12TXEAAWKXEU	AR18TXEAAWKXEU		
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP	
	Performance	Capacity (Min/Std/Max)	Cooling	kW	0.96 / 2.5 / 3.35	0.99 / 3.5 / 4.0	1.6 / 5.0 / 6.7	
				Btu/h	3,276 / 8,530 / 11,431	3,378 / 11,942 / 13,649	5,459 / 17,061 / 22,861	
		Heating		kW	0.72 / 3.2 / 5.0	0.74 / 4.0 / 5.5	1.3 / 6.0 / 8	
				Btu/h	2,457 / 10,919 / 17,061	2,525 / 13,649 / 18,767	4,436 / 20,473 / 27,297	
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.16 / 0.57 / 0.75	0.17 / 0.93 / 1.05	0.32 / 1.39 / 2.18	
			Heating	kW	0.14 / 0.76 / 1.40	0.14 / 1.07 / 1.56	0.27 / 1.7 / 2.5	
		Current Input (Min/Std/Max)	Cooling	A	1.2 / 3.4 / 3.8	1.3 / 4.5 / 5	2 / 6.4 / 10	
			Heating	A	1.0 / 3.7 / 6.1	1.0 / 5.1 / 6.8	1.7 / 7.8 / 11.5	
	Efficiency	EER	Cooling	-	4.39	3.76	3.6	
		COP	Heating	-	4.21	3.74	3.53	
		SEER (Cooling Energy Grade)		-	7.90 (A++)	7.30 (A++)	6.80 (A++)	
		SCOP (Heating Energy Grade)		-	4.60 (A++)	4.60 (A++)	4.10 (A+)	
		Pdesignh		kW	2.2	2.4	3.8	
	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)	9.52 (3/8)	12.7 (1/2)	
		Heat Insulation			-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Installation Limitation	Max. Length (Outdoor to indoor)	m		15	15	30
Max. Height (Between ID/OD)	m			8	8	15		
Wiring connections	Power Source Wire		mm ²	1.5	1.5	2.5		
	Communication	Min.	mm ²	0.75	0.75	0.75		
		Remark		-	F1, F2	F1, F2	F1, F2	
Refrigerant	Type			-	R32	R32		
	Factory Charging		kg	0.94	0.94	1.3		
			tCO ₂ e	0.63	0.63	0.88		
Indoor Unit	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			-	Cross Flow	Cross Flow	
		Quantity		EA	1	1	1	
		Air Flow Rate	Cooling (T/H/M/L)	m ³ /min	9.5 / 9.0 / 8.5 / 7.4	10.5 / 10.0 / 9.0 / 7.9	15.7 / 14.5 / 13.2 / 11.3	
				l/s	158 / 150 / 142 / 123	175 / 167 / 150 / 132	262 / 242 / 220 / 188	
		Heating (T/H/M/L)	m ³ /min	11.1 / 10.5 / 10.0 / 9.0	12.1 / 11.6 / 10.5 / 9.5	15.7 / 14.5 / 13.2 / 11.3		
			l/s	185 / 175 / 167 / 150	202 / 193 / 175 / 158	262 / 242 / 220 / 188		
	Fan Motor	Type			-	BLDC	BLDC	
		Output		W x n	27 x 1	27 x 1	27 x 1	
	Drain	Drain Pipe		Φ, mm	Φ16.3, 550mm	Φ16.3, 550mm	Φ16.3, 550mm	
	Sound	Sound Pressure Level	H / Silent	dB(A)	38 / 16	40 / 16	41 / 25	
		Sound Power Level		dB(A)	54	57	58	
	External Dimension	Net Weight		kg	9.9	9.9	12.2	
		Shipping Weight		kg	12.1	12.1	14.7	
		Net Dimensions (WxHxD)		mm	889 x 299 x 215	889 x 299 x 215	1,055 x 299 x 215	
		Shipping Dimensions (WxHxD)		mm	950 x 290 x 375	950 x 290 x 375	1,115 x 290 x 375	
Casing	Material			-	HIPS	HIPS		
Control System	Infrared remote control			-	Included	Included		
	Wired remote control			-	MWR-WE13N MWR-WG00JN MWR-WG00KN MWR-SH11N	MWR-WE13N MWR-WG00JN MWR-WG00KN MWR-SH11N		
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		-	-		
					-	-		
	Easy Filter Plus			-	Removable / Washable	Removable / Washable	Removable / Washable	
Tri-Care Filter			-	○	○	○		
Motion Detect Sensor			-	-	-	-		
Wi-Fi			-	○	○	○		

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Outdoor Unit	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		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name		-	UB1AR5090FE6	UB1AR5090FE6	UB9TK3150FE4
		Type		-	BLDC ROTARY	BLDC ROTARY	BLDC ROTARY
		Output		kW	2.8	2.8	4.69
		Oil	Type	-	POE	POE	POE
	Initial charge		cc	260	260	500	
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		m ³ /min	45	45	50
	l/s			750	750	833	
	Fan Motor	Type		-	BLDC	BLDC	BLDC
		Output		W x n	40 x 1	40 x 1	40 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	45	46	57
			Sound Power Level		dB(A)	59	62
	External Dimension	Net Weight		kg	29.9	29.9	39.7
Shipping Weight		kg	32.1	32.1	42.7		
Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	880 x 638 x 310		
Shipping Dimensions (WxHxD)		mm	913 x 622 x 371	913 x 622 x 371	1023 x 724 x 413		
Casing	Material	Body	-	EGI Steel Plate / PP	EGI Steel Plate / PP	EGI Steel Plate / PP	
		Cooling		°C	-10 ~ 46	-10 ~ 46	-10 ~ 46
Operating Temp. Range	Heating		°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	

NOTE

- Specifications may be subject to change without prior notice.
- 1) Nominal cooling capacities are based on;
Indoor temperature: 27°C DB, 19°C WB
Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
 - 2) Nominal heating capacities are based on;
Indoor temperature: 20°C DB, 15°C WB
Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
 - 3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
 - 4) These products contain R32 which is fluorinated greenhouse gas.