

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	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	F&T
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile		
Fan		Type		-	Cross Flow	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	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	HIPS
		Infrared remote control		-	Included	Included	Included
Control System		Wired remote control		-	MWR-WE13N MWR-WG00JN MWR-WG00KN MWR-SH11N	MWR-WE13N MWR-WG00JN MWR-WG00KN MWR-SH11N	MWR-WE13N MWR-WG00JN MWR-WG00KN MWR-SH11N
		Drain Pump		-	-	-	-
Additional Accessories		Max. lifting Height / Displacement		mm / Liter/h	-	-	-
		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	Model Name		Indoor Unit	AR09TXEAAWKNEU	AR12TXEAAWKNEU	AR18TXEAAWKNEU
	Outdoor Unit		AR09TXEAAWKXEU	AR12TXEAAWKXEU	AR18TXEAAWKXEU	
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Type		-	F&T	F&T	F&T
Heat Exchanger	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
			dB(A)	59	62	65
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	1,023 x 724 x 413
Casing	Material	Body	-	EGI Steel Plate / PP	EGI Steel Plate / PP	EGI Steel Plate / PP
			°C	-10 ~ 46	-10 ~ 46	-10 ~ 46
Operating Temp. Range	Cooling		°C	-10 ~ 46	-10 ~ 46	-10 ~ 46
	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.