

1. Specification

AR4500

	Model Name	Indoor Unit		AR09TXHZAWKNEU	AR12TXHZAWKNEU	
		Outdoor Unit		AR09TXHZAWKXEU	AR12TXHZAWKXEU	
System	Mode			HEAT PUMP	HEAT PUMP	
	Performance	Capacity (Min/Std/Max)	Cooling	kW	0.9 / 2.5 / 3.35	0.9 / 3.5 / 4.0
				Btu/h	3,071 / 8,530 / 11,431	3,071 / 11,942 / 13,649
		Heating		kW	0.9 / 3.2 / 4.5	0.9 / 3.5 / 5.0
				Btu/h	3,071 / 10,919 / 15,355	3,071 / 11,942 / 17,061
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.21 / 0.70 / 1.03	0.21 / 1.22 / 1.40
			Heating	kW	0.20 / 0.84 / 1.27	0.20 / 0.94 / 1.45
		Current Input (Min/Std/Max)	Cooling	A	1.3 / 3.6 / 4.7	1.3 / 5.6 / 6.3
			Heating	A	1.4 / 4.0 / 5.6	1.4 / 4.5 / 6.4
	Efficiency	EER	Cooling	-	3.57	2.87
		COP	Heating	-	3.81	3.72
		SEER (Cooling Energy Grade)		-	6.70 (A++)	6.50 (A++)
		SCOP (Heating Energy Grade)		-	4.00 (A+)	4.00 (A+)
		Pdesignh		kW	2.1	2.2
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Installation Limitation	Max. Length (Outdoor to indoor)	m	15	15
Max. Height (Between ID/OD)	m		8	8		
Wiring connections	Power Source Wire		mm ²	1.5	1.5	
	Communication	Min.	mm ²	0.75	0.75	
		Remark	-	F1, F2	F1, F2	
Refrigerant	Type		kg	R32	R32	
	Factory Charging		tCO ₂ e	0.7	0.7	
Indoor Unit	Power Supply		Ø, #, V, Hz	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	
	Fan	Type		-	Cross Flow	Cross Flow
		Quantity		EA	1	1
		Air Flow Rate	Cooling (T/H/M/L)	m ³ /min	10.3 / 9.8 / 9.3 / 8.4	10.7 / 10.3 / 9.3 / 8.4
				l/s	172 / 163 / 155 / 140	178 / 172 / 155 / 140
		Heating (T/H/M/L)	m ³ /min	11.2 / 10.7 / 10.3 / 9.3	11.7 / 11.2 / 10.3 / 9.3	
			l/s	187 / 178 / 172 / 155	195 / 187 / 172 / 155	
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	27 x 1	27 x 1
	Drain	Drain Pipe		Φ, mm	Φ16.3, 550mm	Φ16.3, 550mm
	Sound	Sound Pressure Level	H / Silent	dB(A)	37 / 19	38 / 19
			Sound Power Level	dB(A)	54	56
	External Dimension	Net Weight		kg	9.1	9.1
		Shipping Weight		kg	11.1	11.1
		Net Dimensions (WxHxD)		mm	820 x 299 x 215	820 x 299 x 215
		Shipping Dimensions (WxHxD)		mm	880 x 290 x 375	880 x 290 x 375
Casing	Material		-	HIPS	HIPS	
	Infrared remote control		-	Included	Included	
Control System	Wired remote control		-	MWR-WE13N	MWR-WE13N	
			-	MWR-WG00JN	MWR-WG00JN	
			-	MWR-WG00KN	MWR-WG00KN	
			-	MWR-SH11N	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	
	Tri-Care Filter		-	-	-	
	Motion Detect Sensor		-	-	-	
Wi-Fi		-	-	-		

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Outdoor Unit	Model Name		Indoor Unit	AR09TXHZAWKNEU	AR12TXHZAWKNEU	
			Outdoor Unit	AR09TXHZAWKXEU	AR12TXHZAWKXEU	
	Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50
	Heat Exchanger			Type	-	F&T
	Material		Fin	-	Al	Al
			Tube	-	Cu	Cu
	Fin Treatment			-	Anti-Corrosion	Anti-Corrosion
	Compressor			Model Name	UB1AR5090FJ6	UB1AR5090FJ6
				Type	BLDC ROTARY	BLDC ROTARY
	Output			kW	2.8	2.8
	Oil		Type	-	POE	POE
			Initial charge	cc	260	260
	Fan			Type	-	Propeller
				Discharge direction	-	Front
	Quantity			EA	1	1
	Air Flow Rate			m ³ /min	28	28
				l/s	467	467
	Fan Motor			Type	-	BLDC
	Output			W x n	40 x 1	40 x 1
	Sound			Sound Pressure Level	Cooling	dB(A)
						46
	Sound Power Level			dB(A)		63
	Net Weight			kg		22.6
	Shipping Weight			kg		24.3
Net Dimensions (WxHxD)			mm	660 x 475 x 242	660 x 475 x 242	
Shipping Dimensions (WxHxD)			mm	778 x 550 x 331	778 x 550 x 331	
Casing			Material	Body	-	
					EGI Steel Plate / PP	
Operating Temp. Range			Cooling	°C	-10 ~ 46	
			Heating	°C	-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.