

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
	Communication		Min.	mm ²	0.75	0.75
Remark		-	F1, F2	F1, F2		
Refrigerant	Type		-	R32	R32	
	Factory Charging		kg	0.7	0.7	
tCO ₂ e			0.47	0.47		
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
				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-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	-	-	-	
		mm / Liter/h	-	-	-	
	Easy Filter Plus		-	Removable / Washable	Removable / Washable	
	Tri-Care Filter		-	-	-	
Motion Detect Sensor		-	-	-		
Wi-Fi		-	-	-		

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	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
		Tube	-	Cu
	Fin Treatment		-	Anti-Corrosion
Compressor	Model Name			UB1AR5090FJ6
	Type		-	BLDC ROTARY
	Output		kW	2.8
	Oil	Type	-	POE
		Initial charge	cc	260
Fan	Type		-	Propeller
	Discharge direction		-	Front
	Quantity		EA	1
	Air Flow Rate		m ³ /min	28
			l/s	467
Fan Motor	Type		-	BLDC
	Output		W x n	40 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	46
				47
		Sound Power Level	dB(A)	63
External Dimension	Net Weight		kg	22.6
	Shipping Weight		kg	24.3
	Net Dimensions (WxHxD)		mm	660 x 475 x 242
	Shipping Dimensions (WxHxD)		mm	778 x 550 x 331
Casing	Material	Body	-	EGI Steel Plate / PP
				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.

1. Specification

AR4500

	Model Name	Indoor Unit		AR18TXHZAWKNEU	AR24TXHZAWKNEU	
		Outdoor Unit		AR18TXHZAWKXEU	AR24TXHZAWKXEU	
System	Mode			HEAT PUMP	HEAT PUMP	
	Performance	Capacity (Min/Std/Max)	Cooling	kW	1.6 / 5.0 / 6.7	1.4 / 6.5 / 7.6
				Btu/h	5,459 / 17,061 / 22,861	4,777 / 22,179 / 25,932
		Heating		kW	1.3 / 6.0 / 8.0	1.2 / 7.4 / 9.4
				Btu/h	4,436 / 20,473 / 27,297	4,095 / 25,250 / 32,074
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.32 / 1.39 / 2.18	0.3 / 1.95 / 2.6
			Heating	kW	0.27 / 1.7 / 2.5	0.27 / 2.35 / 3.3
		Current Input (Min/Std/Max)	Cooling	A	2.0 / 6.4 / 10.0	2.0 / 8.8 / 11.5
			Heating	A	1.7 / 7.8 / 11.5	1.7 / 10.5 / 14.5
	Efficiency	EER	Cooling	-	3.6	3.33
		COP	Heating	-	3.53	3.15
		SEER (Cooling Energy Grade)		-	6.80 (A++)	6.40 (A++)
		SCOP (Heating Energy Grade)		-	3.80 (A)	3.80 (A)
		Pdesignh		kW	3.8	4.1
	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)	12.7 (1/2)	15.88 (5/8)
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Installation Limitation	Max. Length (Outdoor to indoor)	m	30	30
Max. Height (Between ID/OD)	m			15	15	
	Wiring connections	Power Source Wire		mm ²	2.5	2.5
Communication		Min.	mm ²	0.75	0.75	
		Remark	-	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	
	Factory Charging		kg	1.3	1.15	
			tCO ₂ e	0.88	0.78	
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	16.5 / 15.8 / 14.4 / 13	17.2 / 15.8 / 14.4 / 13
				l/s	275 / 263 / 240 / 216.7	286.7 / 263 / 240 / 216.7
		Heating (T/H/M/L)	m ³ /min	16.5 / 15.8 / 14.4 / 13	17.9 / 16.5 / 15.1 / 13.7	
			l/s	275 / 263 / 240 / 216.7	298.3 / 275 / 251.7 / 228.3	
	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)	41 / 25	45 / 26
				Sound Power Level	dB(A)	58
	External Dimension	Net Weight		kg	11.5	11.6
		Shipping Weight		kg	13.7	13.8
		Net Dimensions (WxHxD)		mm	1,055 x 299 x 215	1,055 x 299 x 215
		Shipping Dimensions (WxHxD)		mm	1,115 x 290 x 375	1,115 x 290 x 375
	Casing	Material		-	HIPS	HIPS
		Infrared remote control		-	Included	Included
	Control System	Wired remote control		-	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		
Tri-Care Filter		-	-	-		
Motion Detect Sensor		-	-	-		
Wi-Fi		-	-	-		

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	Outdoor Unit		AR18TXHZAWKXEU	AR24TXHZAWKXEU
Power Supply			Ø, #, V, Hz	1, 2, 220-240, 50
				1, 2, 220-240, 50
Heat Exchanger	Type		-	F&T
	Material	Fin	-	Al
		Tube	-	Cu
	Fin Treatment		-	Anti-Corrosion
Compressor	Model Name			UB9TK3150FE4
	Type		-	BLDC ROTARY
	Output		kW	4.69
	Oil	Type	-	POE
		Initial charge	cc	500
Fan	Type		-	Propeller
	Discharge direction		-	Front
	Quantity		EA	1
	Air Flow Rate		m ³ /min	50
			l/s	833
Fan Motor	Type		-	BLDC
	Output		W x n	40 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	57
			dB(A)	60
	Sound Power Level		dB(A)	65
External Dimension	Net Weight		kg	39.7
	Shipping Weight		kg	42.7
	Net Dimensions (WxHxD)		mm	880 x 638 x 310
	Shipping Dimensions (WxHxD)		mm	1,023 x 724 x 413
Casing	Material	Body	-	EGI Steel Plate / PP
				EGI Steel Plate / PP
Operating Temp. Range	Cooling		°C	-10 ~ 46
	Heating		°C	-15 ~ 24

NOTE

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- 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.
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