

1. Specification

AR7500

Model Name	IndoorUnit			AR09BXECNWKNSA	AR12BXECNWKNSA	AR18BXECNWKNSA	
	OutdoorUnit			AR09BXECNWKXSA	AR12BXECNWKXSA	AR18BXECNWKXSA	
Mode				-	Heat Pump	Heat Pump	Heat Pump
Performance	Capacity (Min/Std/Max)	Cooling	W	960 / 2,500 / 3,350	990 / 3,500 / 4,000	1,600 / 5,000 / 6,700	
			Btu/h	3,276 / 8,530 / 11,431	3,378 / 11,942 / 13,649	5,459 / 17,061 / 22,861	
		Heating	W	720 / 3,200 / 5,000	740 / 4,000 / 5,500	1,300 / 6,000 / 8,000	
			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	W	160 / 570 / 750	170 / 920 / 1,050	320 / 1,390 / 2,180	
		Heating	W	140 / 740 / 1,400	140 / 1,050 / 1,560	270 / 1,700 / 2,500	
	Current Input (Min/Std/Max)	Cooling	A	1.2 / 3.4 / 3.8	1.3 / 4.5 / 5.0	2.0 / 6.4 / 10.0	
		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	3.80	3.60	
	COP	Heating	-	4.32	3.81	3.53	
	EnergyGrade	Cooling	-	4.5 / 4.5 / 4.5	4.0 / 4.0 / 4.5	3.5 / 3.5 / 3.5	
		Heating	-	3.5 / 3.0 / 2.5	3.0 / 2.5 / 2.0	3.0 / 2.0 / 1.5	
System	Piping Connections	LiquidPipe	Type	Flare	Flare	Flare	
			Φ, mm (inch)	6.35(1/4")	6.35(1/4")	6.35(1/4")	
		Gas Pipe	Type	Flare	Flare	Flare	
			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	
			Chargeless Length (Outdoor to indoor)	m	15	15	15
				Max. Height (Between ID/OD)	m	8	8
	Wiring connections	Power Source Wire		mm ²	2.5	2.5	2.5
		Communication	Min.	mm ²	0.75	0.75	0.75
Remark			-	F1, F2	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	R32	
	FactoryCharging	kg	0.95	0.95	1.15		
		tCO ₂ e	0.64	0.64	0.78		
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	Hydrophile
	Fan	Type		-	Cross Flow	Cross Flow	Cross Flow
		Quantity		EA	1	1	1
		AirFlow 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	16.6 / 15.3 / 14.0 / 12.6
				l/s	158 / 150 / 142 / 123	175 / 167 / 150 / 132	277 / 255 / 233 / 210
			Heating (T/H/M/L)	m ³ /min	11.1 / 10.5 / 10.0 / 9.0	12.1 / 11.6 / 10.5 / 9.5	16.6 / 15.3 / 14.0 / 12.6
	l/s			185 / 175 / 167 / 150	202 / 193 / 175 / 158	277 / 255 / 233 / 210	
	Fan Motor	Type		-	BLDC	BLDC	BLDC
		Output		W x n	27 x 1	27 x 1	27 x 1
	Drain	DrainPipe		Φ, mm	16.3, 550	16.3, 550	16.3, 550
	Sound	Sound Pressure Level	H / Silent	dB(A)	38/17	40/17	41/25
		SoundPowerLevel			54	57	58
	External Dimension	Net Weight		kg	10.3	10.3	12.0
ShippingWeight		kg	11.6	11.6	13.6		
Net Dimensions(WxHxD)		mm	889 x 299 x 215	889 x 299 x 215	1,055 x 299 x 215		
ShippingDimensions (WxHxD)		mm	950 x 290 x 375	950 x 290 x 375	1,115 x 290 x 375		
Casing	Material		-	HIPS	HIPS	HIPS	

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	Model Name	Indoor Unit		AR09BXECNWKNSA	AR12BXECNWKNSA	AR18BXECNWKNSA	
		Outdoor Unit		AR09BXECNWKXSA	AR12BXECNWKXSA	AR18BXECNWKXSA	
Indoor Unit	Control System	Infrared remote control	-	Included	Included	Included	
		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	Drain Pump	-	-	-	-	
		Max. lifting Height / Displacement	mm / Liter/h	-	-	-	
	Additional Accessories	PM1.0 Filter & PM1.0 Laser sensor	-	-	-	-	
		Easy Filter Plus	-	Removable / Washable	Removable / Washable	Removable / Washable	
		Tri-Care Filter	-	●	●	●	
Motion Detect Sensor		-	-	-	-		
Wi-Fi	-	●	●	●			
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	-	Green Hydrophile	Green Hydrophile	Green Hydrophile		
	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
	Initialcharge		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	51
			Sound Power Level	-	60	62	65
	External Dimension	Net Weight		kg	29.8	29.8	39.5
		Shipping Weight		kg	31.9	31.9	43.1
		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	EGI Steel Plate	EGI Steel Plate	
		-	-	-	-		
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.
- 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
 - 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
 - Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
 - These products contain R32 which is fluorinated greenhouse gas.

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AR7500

	Model Name	IndoorUnit		AR24BXECNWKNSA	AR30BXECNWKNSA		
		OutdoorUnit		AR24BXECNWKXSA	AR30BXECNWKXSA		
System	Mode			-	Heat Pump	Heat Pump	
	Performance	Capacity (Min/Std/Max)	Cooling	W	1,400 / 6,800 / 7,600	2,500 / 8,000 / 9,300	
				Btu/h	4,777 / 23,203 / 25,932	8,530 / 27,297 / 31,733	
			Heating	W	1,200 / 7,200 / 9,400	2,400 / 9,000 / 13,000	
				Btu/h	4,095 / 24,567 / 32,074	8,189 / 30,709 / 44,358	
	Power	Power Input (Min/Std/Max)	Cooling	W	300 / 2,060 / 2,600	490 / 2,450 / 3,150	
			Heating	W	270 / 2,200 / 3,300	440 / 2,750 / 4,000	
		Current Input (Min/Std/Max)	Cooling	A	2.0 / 9.7 / 11.5	2.5 / 11.1 / 14.0	
			Heating	A	1.7 / 9.8 / 14.5	2.3 / 12.5 / 17.5	
	Efficiency	EER	Cooling	-	3.30	3.27	
		COP	Heating	-	3.27	3.27	
		EnergyGrade	Cooling	-	3.0 / 3.0 / 3.0	3.0 / 3.0 / 3.0	
			Heating	-	3.0 / 2.0 / 1.5	3.0 / 2.0 / 1.5	
	Piping Connections	LiquidPipe	Type		Flare	Flare	
			Φ, mm (inch)		6.35(1/4")	6.35(1/4")	
		Gas Pipe	Type		Flare	Flare	
			Φ, mm (inch)		15.88(5/8")	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
				Chargeless Length (Outdoor to indoor)	m	15	15
				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		
	FactoryCharging			kg	1.15	2.00	
				tCO ₂ e	0.78	1.35	
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			-	Hydrophile	Hydrophile	
	Fan	Type		-	Cross Flow	Cross Flow	
		Quantity		EA	1	1	
		AirFlow Rate	Cooling (T/H/M/L)	m ³ /min	17.3 / 15.9 / 14.6 / 12.6	20.2 / 17.6 / 14.5 / 11.3	
				l/s	288 / 265 / 243 / 210	337 / 293 / 242 / 188	
			Heating (T/H/M/L)	m ³ /min	17.9 / 16.6 / 15.3 / 13.3	21.4 / 18.9 / 15.7 / 12.6	
	l/s			298 / 277 / 255 / 222	357 / 315 / 362 / 210		
	Fan Motor	Type		-	BLDC	BLDC	
		Output		W x n	27 x 1	27 x 1	
	Drain	DrainPipe		Φ, mm	16.3, 550	16.3, 550	
	Sound	Sound Pressure Level	H / Silent	dB(A)	45/26	47/30	
		SoundPowerLevel				62	64
	External Dimension	Net Weight		kg	12.0	12.0	
		ShippingWeight		kg	13.6	13.6	
		Net Dimensions(WxHxD)		mm	1,055 x 299 x 215	1,055 x 299 x 215	
		ShippingDimensions (WxHxD)		mm	1,115 x 290 x 375	1,115 x 290 x 375	
	Casing	Material		-	HIPS	HIPS	

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	Model Name	Indoor Unit		AR24BXCENWKNSA	AR30BXCENWKNSA	
		Outdoor Unit		AR24BXCENWKXSA	AR30BXCENWKXSA	
Indoor Unit	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	PM1.0 Filter & PM1.0 Laser sensor	-	-	-	
		Easy Filter Plus	-	Removable / Washable	Removable / Washable	
		Tri-Care Filter	-	●	●	
		Motion Detect Sensor	-	-	-	
	Wi-Fi	-	●	●		
Outdoor 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	
	Compressor	Model Name			UB9TK2150FE4	UB8TN8265FJW
		Type		-	BLDC ROTARY	BLDC ROTARY
		Output		kW	4.57	8.02
		Oil	Type	-	POE	POE
	Initialcharge		cc	570	700	
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate		m ³ /min	50	80
	l/s			833	1,333	
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	125 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	54	57
					68	70
	External Dimension	Net Weight		kg	43.2	67.8
Shipping Weight		kg	46.2	72.0		
Net Dimensions (WxHxD)		mm	880 x 638 x 310	940 x 998 x 330		
Shipping Dimensions (WxHxD)		mm	1,023 x 724 x 413	995 x 1,096 x 426		
Casing	Material	Body	-	EGI Steel Plate	EGI Steel Plate	
Operating Temp. Range	Cooling		°C	-10 ~ 46	-10 ~ 46	
	Heating		°C	-15 ~ 24	-15 ~ 24	

NOTE

- Specifications may be subject to change without prior notice.
- 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
 - 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
 - Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
 - These products contain R32 which is fluorinated greenhouse gas.