SAMSUNG

RAC Technical Data Book

RAC for Europe (INV, R32, 50Hz, HP)

Model : AR**TX**AWKNEU (Indoor Unit)
AR**TX**AWKXEU (Outdoor Unit)

History

Version	Modification	Date	Remark
Ver.1.0	Released AR9500T RAC TDB for Europe (AR7500)	19. 10. 29	
Ver.2.0	Released AR9500T RAC new line up TDB (AR4500/ AR5500/ AR9500)	19. 11. 21	
Ver.3.0	Released AR9500T RAC new line up TDB (AR4500/ AR5500/ AR7500/ AR9500)	19. 12. 13	

Nomenclature

Model Name

AR	09	T	X	F	C	A	WK	N	EU
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	Buyer

(1) Classification

AR	RAC

(2) Capacity

x1000 Btu/h

(3) Year

T	2020

(4) Product Type

X	INVERTER HP R32

(5) Characteristics

C	Motion Detect Sensor +Wi-Fi + Tri-care Filter
E	Wi-Fi + Tri-care Filter
F	Wi-Fi
H	-

(6) Design Segment

A	Wind-Free GEO
C	Wind-Free AIRISE
Y	GEO
Z	AIRISE

(7) Version

A-Z (1 digit)

(8) Color

WK	DA White

(9) Set

N	Indoor Unit
X	Outdoor Unit
/	Set

Line-up

Indoor Unit

Model Type	Design	Image	
AR9500	Wind-Free GEO		
AR7500	Wind-Free AIRISE		
AR5500	GEO		
AR4500	AIRISE		

Model Type	Design	Capacity (kW)			
		2.5	3.5	5.0	6.5
AR9500	Wind-Free GEO	●	●	●	●
AR7500	Wind-Free AIRISE	●	●	●	●
AR5500	GEO	●	●	●	●
AR4500	AIRISE	●	●	●	●

Line-up

Outdoor Unit

Model Type	Design	Capacity (kW)			
		2.5	3.5	5.0	6.5
AR9500	Wind-Free GEO				
AR7500	Wind-Free AIRISE				
AR5500	GEO				
AR4500	AIRISE				

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1. Specification

AR4500

System	Model Name	Indoor Unit			AR09TXHZAWKNEU	AR12TXHZAWKNEU
		Outdoor Unit			AR09TXHZAWKXEU	AR12TXHZAWKXEU
	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		mm²	1.5	1.5
		Communication	Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Refrigerant	Type		-	R32	R32
		Factory Charging		kg	0.7	0.7
				tCO_2e	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)	m³/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)	m³/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
	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
		Tri-Care Filter		-	-	-
		Motion Detect Sensor		-	-	-
		Wi-Fi		-	-	-

1. Specification

AR4500

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	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	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate		m³/min	28	28
				l/s	467	467
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	40 x 1	40 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46	47
		Sound Power Level		dB(A)	63	64
	External Dimension	Net Weight		kg	22.6	22.6
		Shipping Weight		kg	24.3	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	EGI Steel Plate / PP
	Operating Temp. Range	Cooling		℃	-10 ~ 46	-10 ~ 46
		Heating		℃	-15 ~ 24	-15 ~ 24

NOTE

- Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;
   Indoor temperature: 27℃ DB, 19℃ WB
   Outdoor temperature: 35℃ DB, 24℃ WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
2) Nominal heating capacities are based on;
   Indoor temperature: 20℃ DB, 15℃ WB
   Outdoor temperature: 7℃ DB, 6℃ 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

System	Model Name	Indoor Unit			AR18TXHZAWKNEU	AR24TXHZAWKNEU
		Outdoor Unit			AR18TXHZAWKXEU	AR24TXHZAWKXEU
	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		mm²	2.5	2.5
		Communication	Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Refrigerant	Type		-	R32	R32
		Factory Charging		kg	1.3	1.15
				tCO_2e	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)	m³/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)	m³/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	62
	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
	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
		Tri-Care Filter		-	-	-
		Motion Detect Sensor		-	-	-
		Wi-Fi		-	-	-

1. Specification

AR4500

Outdoor Unit	Model Name	Indoor Unit			AR18TXHZAWKNEU	AR24TXHZAWKNEU
		Outdoor Unit			AR18TXHZAWKXEU	AR24TXHZAWKXEU
	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		-	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name			UB9TK3150FE4	UB9TK2150FE4
		Type		-	BLDC ROTARY	BLDC ROTARY
		Output		kW	4.69	4.57
		Oil	Type	-	POE	POE
			Initial charge	cc	500	570
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate		m^3/min	50	50
				l/s	833	833
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	40 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	57	60
		Sound Power Level		dB(A)	65	68
	External Dimension	Net Weight		kg	39.7	43.2
		Shipping Weight		kg	42.7	46.2
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 638 x 310
		Shipping Dimensions (WxHxD)		mm	1,023 x 724 x 413	1,023 x 724 x 413
	Casing	Material	Body	-	EGI Steel Plate / PP	EGI Steel Plate / PP
	Operating Temp. Range	Cooling		℃	-10 ~ 46	-10 ~ 46
		Heating		℃	-15 ~ 24	-15 ~ 24

NOTE

- Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;
   Indoor temperature: 27℃ DB, 19℃ WB
   Outdoor temperature: 35℃ DB, 24℃ WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
2) Nominal heating capacities are based on;
   Indoor temperature: 20℃ DB, 15℃ WB
   Outdoor temperature: 7℃ DB, 6℃ 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

AR7500

System	Model Name	Indoor Unit			AR09TXFCAWKNEU	AR12TXFCAWKNEU
		Outdoor Unit			AR09TXFCAWKXEU	AR12TXFCAWKXEU
	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		mm²	1.5	1.5
		Communication	Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Refrigerant	Type		-	R32	R32
		Factory Charging		kg	0.7	0.7
				tCO_2e	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)	m³/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)	m³/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	8.9	8.9
		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
	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
		Tri-Care Filter		-	-	-
		Motion Detect Sensor		-	-	-
		Wi-Fi		-	○	○

1. Specification

AR7500

Outdoor Unit	Model Name	Indoor Unit			AR09TXFCAWKNEU	AR12TXFCAWKNEU
		Outdoor Unit			AR09TXFCAWKXEU	AR12TXFCAWKXEU
	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		-	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	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate		m³/min	28	28
				l/s	467	467
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	40 x 1	40 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46	47
		Sound Power Level		dB(A)	63	64
	External Dimension	Net Weight		kg	23.0	23.0
		Shipping Weight		kg	25.0	25.0
		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	EGI Steel Plate / PP
	Operating Temp. Range	Cooling		℃	-10 ~ 46	-10 ~ 46
		Heating		℃	-15 ~ 24	-15 ~ 24

NOTE

- Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;
   Indoor temperature: 27℃ DB, 19℃ WB
   Outdoor temperature: 35℃ DB, 24℃ WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
2) Nominal heating capacities are based on;
   Indoor temperature: 20℃ DB, 15℃ WB
   Outdoor temperature: 7℃ DB, 6℃ 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

AR7500

System	Model Name	Indoor Unit			AR18TXFCAWKNEU	AR24TXFCAWKNEU
		Outdoor Unit			AR18TXFCAWKXEU	AR24TXFCAWKXEU
	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	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		mm²	2.5	2.5
		Communication	Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Refrigerant	Type		-	R32	R32
		Factory Charging		kg	1.3	1.15
				tCO_2e	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)	m³/min	16.6 / 15.3 / 14 / 12.6	17.3 / 15.9 / 14.6 / 12.6
				l/s	276.7 / 255 / 233.3 / 210	288.3 / 265 / 243.3 / 210
			Heating (T/H/M/L)	m³/min	16.6 / 15.3 / 14 / 12.6	17.9 / 16.6 / 15.3 / 13.3
				l/s	276.7 / 255 / 233.3 / 210	298.3 / 276.7 / 255 / 221.7
	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	62
	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
	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
		Tri-Care Filter		-	-	-
		Motion Detect Sensor		-	-	-
		Wi-Fi		-	○	○

1. Specification

AR7500

Outdoor Unit	Model Name	Indoor Unit			AR18TXFCAWKNEU	AR24TXFCAWKNEU
		Outdoor Unit			AR18TXFCAWKXEU	AR24TXFCAWKXEU
	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		-	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name			UB9TK3150FE4	UB9TK2150FE4
		Type		-	BLDC ROTARY	BLDC ROTARY
		Output		kW	4.69	4.57
		Oil	Type	-	POE	POE
			Initial charge	cc	500	570
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate		m^3/min	50	50
				l/s	833	833
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	40 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	57	60
		Sound Power Level		dB(A)	65	68
	External Dimension	Net Weight		kg	39.7	43.2
		Shipping Weight		kg	42.7	46.2
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 638 x 310
		Shipping Dimensions (WxHxD)		mm	1,023 x 724 x 413	1,023 x 724 x 413
	Casing	Material	Body	-	EGI Steel Plate / PP	EGI Steel Plate / PP
	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.

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

AR5500

System	Model Name	Indoor Unit			AR09TXFYAWKNEU	AR12TXFYAWKNEU
		Outdoor Unit			AR09TXFYAWKXEU	AR12TXFYAWKXEU
	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		mm²	1.5	1.5
		Communication	Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Refrigerant	Type		-	R32	R32
		Factory Charging		kg	0.7	0.7
				tCO_2e	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)	m³/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)	m³/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
	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
		Tri-Care Filter		-	-	-
		Motion Detect Sensor		-	-	-
		Wi-Fi		-	○	○

1. Specification

AR5500

Outdoor Unit	Model Name	Indoor Unit			AR09TXFYAWKNEU	AR12TXFYAWKNEU
		Outdoor Unit			AR09TXFYAWKXEU	AR12TXFYAWKXEU
	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		-	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	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate		m³/min	28	28
				l/s	467	467
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	40 x 1	40 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46	47
		Sound Power Level		dB(A)	63	64
	External Dimension	Net Weight		kg	22.6	22.6
		Shipping Weight		kg	24.3	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	EGI Steel Plate / PP
	Operating Temp. Range	Cooling		℃	-10 ~ 46	-10 ~ 46
		Heating		℃	-15 ~ 24	-15 ~ 24

NOTE

- Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;
   Indoor temperature: 27℃ DB, 19℃ WB
   Outdoor temperature: 35℃ DB, 24℃ WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
2) Nominal heating capacities are based on;
   Indoor temperature: 20℃ DB, 15℃ WB
   Outdoor temperature: 7℃ DB, 6℃ 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

AR5500

System	Model Name	Indoor Unit			AR18TXFYAWKNEU	AR24TXFYAWKNEU
		Outdoor Unit			AR18TXFYAWKXEU	AR24TXFYAWKXEU
	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 / 6.4 / 10	2 / 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)	4.00 (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		mm²	2.5	2.5
		Communication	Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Refrigerant	Type		-	R32	R32
		Factory Charging		kg	1.3	1.15
				tCO_2e	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)	m³/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)	m³/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	62
	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
	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
		Tri-Care Filter		-	-	-
		Motion Detect Sensor		-	-	-
		Wi-Fi		-	○	○

1. Specification

AR5500

Outdoor Unit	Model Name	Indoor Unit			AR18TXFYAWKNEU	AR24TXFYAWKNEU
		Outdoor Unit			AR18TXFYAWKXEU	AR24TXFYAWKXEU
	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		-	Anti-Corrosion	Anti-Corrosion
	Compressor	Model Name			UB9TK3150FE4	UB9TK2150FE4
		Type		-	BLDC ROTARY	BLDC ROTARY
		Output		kW	4.69	4.57
		Oil	Type	-	POE	POE
			Initial charge	cc	500	570
	Fan	Type		-	Propeller	Propeller
		Discharge direction		-	Front	Front
		Quantity		EA	1	1
		Air Flow Rate		m³/min	50	50
				l/s	833	833
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	40 x 1	125 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	57	60
		Sound Power Level		dB(A)	65	68
	External Dimension	Net Weight		kg	39.7	43.2
		Shipping Weight		kg	42.7	46.2
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	880 x 638 x 310
		Shipping Dimensions (WxHxD)		mm	1,023 x 724 x 413	1,023 x 724 x 413
	Casing	Material	Body	-	EGI Steel Plate / PP	EGI Steel Plate / PP
	Operating Temp. Range	Cooling		℃	-10 ~ 46	-10 ~ 46
		Heating		℃	-15 ~ 24	-15 ~ 24

NOTE

- Specifications may be subject to change without prior notice.

1) Nominal cooling capacities are based on;
   Indoor temperature: 27℃ DB, 19℃ WB
   Outdoor temperature: 35℃ DB, 24℃ WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
2) Nominal heating capacities are based on;
   Indoor temperature: 20℃ DB, 15℃ WB
   Outdoor temperature: 7℃ DB, 6℃ 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

AR9500

System	Model Name	Indoor Unit			AR09TXEAAWKNEU	AR12TXEAAWKNEU	AR18TXEAAWKNEU
		Outdoor Unit			AR09TXEAAWKXEU	AR12TXEAAWKXEU	AR18TXEAAWKXEU
	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 / 13649	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		mm²	1.5	1.5	2.5
		Communication	Min.	mm²	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_2e	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)	m³/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)	m³/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
	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	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		-	○	○	○

1. Specification

AR9500

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
	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		m³/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	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
	Operating Temp. Range	Cooling		℃	-10 ~ 46	-10 ~ 46	-10 ~ 46
		Heating		℃	-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℃ DB, 19℃ WB
   Outdoor temperature: 35℃ DB, 24℃ WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
2) Nominal heating capacities are based on;
   Indoor temperature: 20℃ DB, 15℃ WB
   Outdoor temperature: 7℃ DB, 6℃ 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

AR9500

System	Model Name	Indoor Unit			AR24TXEAAWKNEU	AR09TXCAAWKNEU	AR12TXCAAWKNEU
		Outdoor Unit			AR24TXEAAWKXEU	AR09TXCAAWKXEU	AR12TXCAAWKXEU
	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP
	Performance	Capacity (Min/Std/Max)	Cooling	kW	1.4 / 6.5 / 7.6	0.9 / 2.5 / 3.6	0.9 / 3.5 / 4.8
				Btu/h	4,777 / 22,179 / 25,932	3,071 / 8,530 / 12,284	3,071 / 11,942 / 16,378
			Heating	kW	1.2 / 7.4 / 9.7	0.8 / 3.2 / 7.1	0.8 / 4 / 7.3
				Btu/h	4,095 / 25,250 / 33,098	2,730 / 10,919 / 24,226	2,730 / 13,649 / 24,909
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.30 / 1.95 / 2.60	0.18 / 0.54 / 0.93	0.18 / 0.89 / 1.45
			Heating	kW	0.27 / 2.35 / 3.20	0.15 / 0.68 / 2.16	0.15 / 0.94 / 2.28
		Current Input (Min/Std/Max)	Cooling	A	2.0 / 8.8 / 11.5	1.2 / 2.9 / 4.5	1.2 / 4.1 / 6.4
			Heating	A	1.7 / 10.5 / 14.0	1.0 / 3.4 / 9.5	1.0 / 4.4 / 10.0
	Efficiency	EER	Cooling	-	3.33	4.63	3.95
		COP	Heating	-	3.15	4.74	4.26
		SEER (Cooling Energy Grade)		-	6.40 (A++)	8.80 (A+++)	8.50 (A+++)
		SCOP (Heating Energy Grade)		-	4.00 (A+)	5.10 (A+++)	5.10 (A+++)
		Pdesignh		kW	4.1		2.4
	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)	15.88 (5/8)	9.52 (3/8)	9.52 (3/8)
		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	30	15	15
			Max. Height (Between ID/OD)	m	15	8	8
	Wiring connections	Power Source Wire		mm²	1.5	1.5	1.5
		Communication	Min.	mm²	0.75	0.75	0.75
			Remark	-	F1, F2	F1, F2	F1, F2
	Refrigerant	Type		-	R32	R32	R32
		Factory Charging		kg	1.3	0.965	0.965
				tCO_2e	0.88	0.65	0.65
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)	m³/min	17.6 / 15.7 / 13.9 / 11.3	11.1 / 10.1 / 8.6 / 7.1	12.1 / 10.6 / 9.1 / 7.1
				l/s	293 / 262 / 232 / 188	185 / 168 / 143 / 118	202 / 177 / 152 / 118
			Heating (T/H/M/L)	m³/min	18.3 / 16.4 / 14.5 / 12.0	13.1 / 12.1 / 10.6 / 9.1	13.1 / 11.6 / 10.1 / 8.1
				l/s	305 / 273 / 242 / 200	218 / 202 / 177 / 152	218 / 193 / 168 / 135
	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)	45 / 27	38 / 16	40 /16
		Sound Power Level		dB(A)	62	56	58
	External Dimension	Net Weight		kg	12.5	10.6	10.6
		Shipping Weight		kg	14.8	12.5	12.7
		Net Dimensions (WxHxD)		mm	1,055 x 299 x 215	889 x 299 x 215	889 x 299 x 215
		Shipping Dimensions (WxHxD)		mm	1,115 x 290 x 375	950 x 290 x 375	950 x 290 x 375
	Casing	Material		-	HIPS	HIPS	HIPS
	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	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		-	○	○	○

1. Specification

AR9500

Outdoor Unit	Model Name	Indoor Unit			AR24TXEAAWKNEU	AR09TXCAAWKNEU	AR12TXCAAWKNEU
		Outdoor Unit			AR24TXEAAWKXEU	AR09TXCAAWKXEU	AR12TXCAAWKXEU
	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			UB9TK2150FE4	KTN130D42UFR	KTN130D42UFR
		Type		-	BLDC ROTARY	BLDC ROTARY	BLDC ROTARY
		Output		kW	4.57	4.09	4.09
		Oil	Type	-	POE	POE	POE
			Initial charge	cc	570	350	350
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		m³/min	50	45	45
				l/s	833	750	750
	Fan Motor	Type		-	BLDC	BLDC	BLDC
		Output		W x n	125 x 1	40 x 1	40 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	54	45	46
		Sound Power Level		dB(A)	68	59	62
	External Dimension	Net Weight		kg	43.7	32.5	32.5
		Shipping Weight		kg	46.7	34.8	34.8
		Net Dimensions (WxHxD)		mm	880 x 638 x 310	790 x 548 x 285	790 x 548 x 285
		Shipping Dimensions (WxHxD)		mm	1,023 x 724 x 413	913 x 622 x 371	913 x 622 x 371
	Casing	Material	Body	-	EGI Steel Plate / PP	EGI Steel Plate / PP	EGI Steel Plate / PP
	Operating Temp. Range	Cooling		℃	-10 ~ 46	-10 ~ 46	-10 ~ 46
		Heating		℃	-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℃ DB, 19℃ WB
   Outdoor temperature: 35℃ DB, 24℃ WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
2) Nominal heating capacities are based on;
   Indoor temperature: 20℃ DB, 15℃ WB
   Outdoor temperature: 7℃ DB, 6℃ 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.

2 Capacity Table

AR4500

AR09TXHZAWKNEU+AR09TXHZAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	2.42	2.07	0.58	2.53	2.17	0.67	2.74	2.33	0.76	2.92	2.43	0.79	3.02	2.48	0.80	3.24	2.57	0.80	3.48	2.67	0.77
0	2.64	2.19	0.47	2.74	2.30	0.57	2.96	2.46	0.67	3.13	2.56	0.70	3.23	2.61	0.71	3.45	2.71	0.71	3.69	2.80	0.69
10	2.75	2.25	0.44	2.86	2.36	0.54	3.07	2.52	0.65	3.25	2.63	0.69	3.35	2.68	0.70	3.56	2.78	0.71	3.80	2.88	0.69
20	2.77	2.26	0.49	2.87	2.37	0.60	3.08	2.54	0.71	3.26	2.64	0.76	3.36	2.69	0.77	3.57	2.80	0.78	3.81	2.90	0.77
25	2.74	2.24	0.54	2.84	2.35	0.65	3.05	2.52	0.77	3.23	2.63	0.82	3.32	2.68	0.84	3.54	2.78	0.85	3.78	2.88	0.84
32	2.65	2.19	0.65	2.76	2.30	0.77	2.97	2.47	0.89	3.14	2.58	0.94	3.24	2.63	0.96	3.45	2.74	0.98	3.69	2.84	0.97
35	2.60	2.16	0.71	2.70	2.27	0.83	2.91	2.44	0.95	2.50	2.27	0.70	3.18	2.60	1.02	3.40	2.71	1.04	3.64	2.81	1.04
40	2.49	2.10	0.82	2.60	2.21	0.94	2.81	2.38	1.07	2.98	2.49	1.13	3.07	2.55	1.15	3.29	2.65	1.17	3.53	2.76	1.17
43	2.42	2.05	0.90	2.52	2.17	1.02	2.73	2.34	1.15	2.90	2.45	1.21	3.00	2.50	1.23	3.21	2.61	1.25	3.45	2.71	1.25
46	2.33	2.00	0.98	2.44	2.12	1.10	2.64	2.29	1.24	2.82	2.40	1.30	2.91	2.46	1.32	3.12	2.56	1.34	3.36	2.67	1.34

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.80	1.01	2.45	0.98	2.29	1.01	2.29	1.05	2.33	1.11	2.55	1.27
-10	2.89	1.08	2.62	1.06	2.48	1.08	2.46	1.12	2.48	1.17	2.60	1.32
-5	3.04	1.07	2.85	1.05	2.74	1.08	2.71	1.11	2.70	1.15	2.74	1.29
0	3.24	1.01	3.14	0.99	3.05	1.02	3.02	1.05	2.99	1.09	2.94	1.22
2	3.32	0.98	3.26	0.96	3.19	0.99	3.15	1.02	3.11	1.06	3.03	1.19
5	3.46	0.92	3.45	0.91	3.40	0.94	3.36	0.98	3.30	1.02	3.17	1.14
7	3.55	0.89	3.58	0.88	3.20	0.84	3.50	0.95	3.44	0.99	3.27	1.11
10	3.68	0.84	3.77	0.85	3.75	0.88	3.71	0.91	3.63	0.96	3.42	1.07
15	3.89	0.80	4.07	0.82	4.09	0.87	4.05	0.90	3.96	0.94	3.66	1.06
20	4.06	0.83	4.34	0.87	4.40	0.93	4.35	0.97	4.25	1.01	3.88	1.12
24	4.16	0.92	4.52	0.98	4.62	1.05	4.57	1.09	4.45	1.14	4.02	1.26

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR4500

AR12TXHZAWKNEU+AR12TXHZAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	3.03	2.74	0.90	3.26	2.77	0.98	3.62	2.83	1.07	3.87	2.90	1.10	3.99	2.94	1.11	4.24	3.03	1.11	4.50	3.14	1.08
0	3.29	2.85	0.78	3.51	2.88	0.87	3.86	2.95	0.96	4.10	3.03	1.00	4.22	3.07	1.01	4.46	3.17	1.01	4.71	3.29	0.99
10	3.38	2.87	0.76	3.60	2.91	0.85	3.94	2.99	0.95	4.17	3.07	0.99	4.28	3.11	1.00	4.52	3.22	1.01	4.75	3.34	0.99
20	3.32	2.81	0.82	3.53	2.85	0.92	3.85	2.94	1.02	4.07	3.02	1.06	4.19	3.07	1.08	4.41	3.18	1.09	4.64	3.31	1.08
25	3.23	2.74	0.89	3.43	2.78	0.98	3.75	2.88	1.09	3.97	2.97	1.14	4.08	3.02	1.15	4.30	3.13	1.16	4.53	3.26	1.15
32	3.03	2.61	1.01	3.23	2.66	1.11	3.54	2.76	1.23	3.75	2.85	1.27	3.86	2.90	1.29	4.08	3.02	1.30	4.30	3.16	1.30
35	2.92	2.54	1.08	3.12	2.59	1.18	3.43	2.70	1.30	3.50	2.80	1.22	3.74	2.84	1.36	3.95	2.96	1.38	4.17	3.10	1.37
40	2.71	2.41	1.21	2.90	2.46	1.32	3.20	2.57	1.43	3.41	2.67	1.48	3.51	2.72	1.50	3.72	2.85	1.52	3.94	2.99	1.52
43	2.56	2.32	1.30	2.75	2.38	1.41	3.05	2.49	1.52	3.25	2.59	1.58	3.35	2.64	1.59	3.56	2.77	1.61	3.77	2.91	1.61
46	2.40	2.23	1.40	2.59	2.28	1.51	2.88	2.40	1.62	3.08	2.50	1.68	3.18	2.55	1.70	3.39	2.68	1.72	3.60	2.82	1.72

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.94	1.19	2.69	1.16	2.58	1.17	2.58	1.20	2.61	1.24	2.77	1.35
-10	3.15	1.25	2.96	1.22	2.87	1.24	2.85	1.27	2.86	1.31	2.93	1.43
-5	3.29	1.19	3.17	1.17	3.09	1.20	3.07	1.23	3.05	1.27	3.02	1.39
0	3.40	1.07	3.35	1.06	3.29	1.09	3.25	1.13	3.21	1.17	3.10	1.29
2	3.44	1.01	3.42	1.01	3.37	1.04	3.32	1.08	3.27	1.12	3.13	1.24
5	3.50	0.92	3.53	0.93	3.49	0.97	3.44	1.00	3.37	1.05	3.18	1.17
7	3.54	0.87	3.60	0.88	3.50	0.94	3.52	0.96	3.45	1.01	3.22	1.13
10	3.62	0.81	3.73	0.82	3.72	0.87	3.66	0.91	3.58	0.96	3.30	1.08
15	3.81	0.76	4.00	0.79	4.01	0.85	3.95	0.89	3.84	0.94	3.49	1.07
20	4.08	0.85	4.36	0.88	4.40	0.95	4.34	0.99	4.21	1.05	3.79	1.18
24	4.39	1.03	4.73	1.08	4.80	1.15	4.74	1.20	4.60	1.25	4.12	1.39

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR4500

AR18TXHZAWKNEU+AR18TXHZAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	5.01	4.38	0.64	5.33	4.55	0.74	5.87	4.82	0.86	6.26	5.01	0.92	6.47	5.11	0.94	6.91	5.31	0.95	7.40	5.51	0.94
0	5.00	4.37	0.70	5.33	4.54	0.81	5.86	4.81	0.94	6.25	5.00	0.99	6.45	5.09	1.01	6.89	5.29	1.02	7.36	5.49	0.99
10	4.85	4.25	0.73	5.17	4.41	0.85	5.69	4.67	0.98	6.07	4.85	1.04	6.27	4.95	1.06	6.69	5.14	1.06	7.15	5.33	1.03
20	4.60	4.03	0.76	4.90	4.18	0.90	5.40	4.43	1.06	5.76	4.61	1.12	5.95	4.70	1.14	6.36	4.88	1.15	6.79	5.07	1.11
25	4.44	3.89	0.80	4.74	4.04	0.95	5.22	4.28	1.12	5.57	4.45	1.19	5.75	4.54	1.21	6.15	4.72	1.22	6.57	4.90	1.18
32	4.20	3.68	0.90	4.48	3.82	1.07	4.94	4.05	1.26	5.27	4.21	1.34	5.44	4.30	1.36	5.82	4.47	1.37	6.22	4.64	1.34
35	4.09	3.59	0.97	4.37	3.72	1.14	4.81	3.95	1.34	5.00	4.00	1.39	5.30	4.19	1.45	5.67	4.35	1.46	6.06	4.52	1.43
40	3.91	3.42	1.10	4.17	3.55	1.29	4.59	3.76	1.51	4.89	3.92	1.60	5.06	3.99	1.63	5.40	4.15	1.65	5.78	4.31	1.61
43	3.80	3.32	1.20	4.05	3.45	1.40	4.45	3.65	1.63	4.75	3.80	1.73	4.91	3.87	1.76	5.24	4.03	1.78	5.61	4.18	1.75
46	3.69	3.22	1.32	3.92	3.34	1.53	4.32	3.54	1.77	4.60	3.68	1.87	4.75	3.76	1.91	5.08	3.90	1.94	5.43	4.05	1.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	5.58	1.85	4.90	1.79	4.58	1.85	4.56	1.92	4.63	2.03	5.07	2.34
-10	5.43	1.98	4.87	1.93	4.57	1.97	4.52	2.04	4.54	2.13	4.80	2.41
-5	5.52	2.01	5.10	1.96	4.84	2.01	4.77	2.07	4.74	2.15	4.83	2.41
0	5.79	1.96	5.51	1.93	5.29	1.98	5.20	2.04	5.14	2.12	5.07	2.36
2	5.92	1.93	5.70	1.90	5.50	1.96	5.41	2.02	5.33	2.10	5.20	2.33
5	6.12	1.88	6.00	1.86	5.83	1.92	5.74	1.98	5.64	2.06	5.42	2.29
7	6.25	1.85	6.20	1.84	6.00	1.70	5.96	1.96	5.85	2.04	5.57	2.27
10	6.43	1.80	6.48	1.80	6.38	1.88	6.28	1.94	6.15	2.02	5.80	2.24
15	6.62	1.74	6.85	1.78	6.83	1.87	6.74	1.94	6.58	2.03	6.11	2.25
20	6.60	1.75	7.03	1.83	7.10	1.94	7.01	2.02	6.84	2.11	6.25	2.34
24	6.38	1.83	6.96	1.94	7.12	2.08	7.04	2.16	6.86	2.26	6.19	2.50

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR4500

AR24TXHZAWKNEU+AR24TXHZAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	6.74	5.60	1.10	7.07	5.80	1.27	7.57	6.13	1.46	7.95	6.37	1.54	8.17	6.49	1.56	8.69	6.73	1.58	9.35	6.98	1.57
0	6.19	5.18	1.03	6.54	5.39	1.22	7.07	5.74	1.42	7.47	5.98	1.50	7.70	6.11	1.52	8.24	6.36	1.53	8.90	6.62	1.50
10	6.26	5.24	1.11	6.62	5.45	1.32	7.15	5.80	1.54	7.56	6.04	1.62	7.79	6.17	1.64	8.32	6.42	1.65	8.98	6.68	1.61
20	6.49	5.41	1.29	6.84	5.61	1.53	7.36	5.95	1.78	7.75	6.19	1.87	7.97	6.31	1.90	8.48	6.56	1.91	9.12	6.81	1.86
25	6.52	5.43	1.41	6.86	5.62	1.67	7.37	5.95	1.93	7.74	6.18	2.03	7.96	6.30	2.06	8.45	6.54	2.07	9.07	6.78	2.03
32	6.33	5.26	1.60	6.66	5.45	1.88	7.12	5.75	2.17	7.48	5.97	2.29	7.68	6.08	2.32	8.14	6.31	2.34	8.73	6.53	2.30
35	6.14	5.10	1.69	6.45	5.27	1.98	6.90	5.57	2.28	6.50	5.20	1.95	7.43	5.89	2.44	7.88	6.11	2.46	8.46	6.32	2.42
40	5.61	4.66	1.83	5.89	4.82	2.14	6.31	5.10	2.47	6.62	5.30	2.61	6.80	5.40	2.65	7.23	5.60	2.68	7.77	5.81	2.64
43	5.14	4.28	1.92	5.42	4.44	2.24	5.81	4.70	2.59	6.10	4.89	2.73	6.28	4.98	2.77	6.68	5.18	2.81	7.21	5.37	2.77
46	4.56	3.81	2.01	4.82	3.96	2.35	5.18	4.20	2.71	5.46	4.38	2.86	5.62	4.47	2.90	6.01	4.66	2.94	6.52	4.84	2.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.94	2.44	6.07	2.35	5.66	2.43	5.63	2.53	5.70	2.67	6.15	3.06
-10	6.45	2.66	5.83	2.59	5.55	2.67	5.53	2.76	5.58	2.89	5.89	3.26
-5	6.53	2.70	6.16	2.65	6.00	2.73	5.98	2.82	6.00	2.94	6.16	3.28
0	7.00	2.61	6.87	2.58	6.81	2.67	6.79	2.76	6.78	2.88	6.78	3.20
2	7.26	2.56	7.22	2.54	7.19	2.63	7.17	2.72	7.15	2.84	7.08	3.16
5	7.67	2.47	7.77	2.46	7.79	2.57	7.77	2.66	7.72	2.78	7.55	3.09
7	7.96	2.41	8.13	2.42	7.40	2.35	8.17	2.62	8.10	2.74	7.85	3.05
10	8.35	2.33	8.66	2.36	8.76	2.48	8.73	2.58	8.64	2.70	8.27	3.00
15	8.85	2.27	9.35	2.34	9.52	2.49	9.47	2.59	9.33	2.71	8.76	3.02
20	8.96	2.35	9.65	2.46	9.87	2.64	9.80	2.75	9.60	2.88	8.83	3.19
24	8.65	2.56	9.48	2.71	9.74	2.92	9.65	3.04	9.40	3.18	8.45	3.49

NOTE

- The performance table shows the average value of each conditions.

2. Capacity Table

AR7500

AR09TXFCAWKNEU+AR09TXFCAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	2.42	2.07	0.58	2.53	2.17	0.67	2.74	2.33	0.76	2.92	2.43	0.79	3.02	2.48	0.80	3.24	2.57	0.80	3.48	2.67	0.77
0	2.64	2.19	0.47	2.74	2.30	0.57	2.96	2.46	0.67	3.13	2.56	0.70	3.23	2.61	0.71	3.45	2.71	0.71	3.69	2.80	0.69
10	2.75	2.25	0.44	2.86	2.36	0.54	3.07	2.52	0.65	3.25	2.63	0.69	3.35	2.68	0.70	3.56	2.78	0.71	3.80	2.88	0.69
20	2.77	2.26	0.49	2.87	2.37	0.60	3.08	2.54	0.71	3.26	2.64	0.76	3.36	2.69	0.77	3.57	2.80	0.78	3.81	2.90	0.77
25	2.74	2.24	0.54	2.84	2.35	0.65	3.05	2.52	0.77	3.23	2.63	0.82	3.32	2.68	0.84	3.54	2.78	0.85	3.78	2.88	0.84
32	2.65	2.19	0.65	2.76	2.30	0.77	2.97	2.47	0.89	3.14	2.58	0.94	3.24	2.63	0.96	3.45	2.74	0.98	3.69	2.84	0.97
35	2.60	2.16	0.71	2.70	2.27	0.83	2.91	2.44	0.95	2.50	2.27	0.70	3.18	2.60	1.02	3.40	2.71	1.04	3.64	2.81	1.04
40	2.49	2.10	0.82	2.60	2.21	0.94	2.81	2.38	1.07	2.98	2.49	1.13	3.07	2.55	1.15	3.29	2.65	1.17	3.53	2.76	1.17
43	2.42	2.05	0.90	2.52	2.17	1.02	2.73	2.34	1.15	2.90	2.45	1.21	3.00	2.50	1.23	3.21	2.61	1.25	3.45	2.71	1.25
46	2.33	2.00	0.98	2.44	2.12	1.10	2.64	2.29	1.24	2.82	2.40	1.30	2.91	2.46	1.32	3.12	2.56	1.34	3.36	2.67	1.34

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.80	1.01	2.45	0.98	2.29	1.01	2.29	1.05	2.33	1.11	2.55	1.27
-10	2.89	1.08	2.62	1.06	2.48	1.08	2.46	1.12	2.48	1.17	2.60	1.32
-5	3.04	1.07	2.85	1.05	2.74	1.08	2.71	1.11	2.70	1.15	2.74	1.29
0	3.24	1.01	3.14	0.99	3.05	1.02	3.02	1.05	2.99	1.09	2.94	1.22
2	3.32	0.98	3.26	0.96	3.19	0.99	3.15	1.02	3.11	1.06	3.03	1.19
5	3.46	0.92	3.45	0.91	3.40	0.94	3.36	0.98	3.30	1.02	3.17	1.14
7	3.55	0.89	3.58	0.88	3.20	0.84	3.50	0.95	3.44	0.99	3.27	1.11
10	3.68	0.84	3.77	0.85	3.75	0.88	3.71	0.91	3.63	0.96	3.42	1.07
15	3.89	0.80	4.07	0.82	4.09	0.87	4.05	0.90	3.96	0.94	3.66	1.06
20	4.06	0.83	4.34	0.87	4.40	0.93	4.35	0.97	4.25	1.01	3.88	1.12
24	4.16	0.92	4.52	0.98	4.62	1.05	4.57	1.09	4.45	1.14	4.02	1.26

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR7500

AR12TXFCAWKNEU+AR12TXFCAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	3.03	2.74	0.90	3.26	2.77	0.98	3.62	2.83	1.07	3.87	2.90	1.10	3.99	2.94	1.11	4.24	3.03	1.11	4.50	3.14	1.08
0	3.29	2.85	0.78	3.51	2.88	0.87	3.86	2.95	0.96	4.10	3.03	1.00	4.22	3.07	1.01	4.46	3.17	1.01	4.71	3.29	0.99
10	3.38	2.87	0.76	3.60	2.91	0.85	3.94	2.99	0.95	4.17	3.07	0.99	4.28	3.11	1.00	4.52	3.22	1.01	4.75	3.34	0.99
20	3.32	2.81	0.82	3.53	2.85	0.92	3.85	2.94	1.02	4.07	3.02	1.06	4.19	3.07	1.08	4.41	3.18	1.09	4.64	3.31	1.08
25	3.23	2.74	0.89	3.43	2.78	0.98	3.75	2.88	1.09	3.97	2.97	1.14	4.08	3.02	1.15	4.30	3.13	1.16	4.53	3.26	1.15
32	3.03	2.61	1.01	3.23	2.66	1.11	3.54	2.76	1.23	3.75	2.85	1.27	3.86	2.90	1.29	4.08	3.02	1.30	4.30	3.16	1.30
35	2.92	2.54	1.08	3.12	2.59	1.18	3.43	2.70	1.30	3.50	2.80	1.22	3.74	2.84	1.36	3.95	2.96	1.38	4.17	3.10	1.37
40	2.71	2.41	1.21	2.90	2.46	1.32	3.20	2.57	1.43	3.41	2.67	1.48	3.51	2.72	1.50	3.72	2.85	1.52	3.94	2.99	1.52
43	2.56	2.32	1.30	2.75	2.38	1.41	3.05	2.49	1.52	3.25	2.59	1.58	3.35	2.64	1.59	3.56	2.77	1.61	3.77	2.91	1.61
46	2.40	2.23	1.40	2.59	2.28	1.51	2.88	2.40	1.62	3.08	2.50	1.68	3.18	2.55	1.70	3.39	2.68	1.72	3.60	2.82	1.72

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.94	1.19	2.69	1.16	2.58	1.17	2.58	1.20	2.61	1.24	2.77	1.35
-10	3.15	1.25	2.96	1.22	2.87	1.24	2.85	1.27	2.86	1.31	2.93	1.43
-5	3.29	1.19	3.17	1.17	3.09	1.20	3.07	1.23	3.05	1.27	3.02	1.39
0	3.40	1.07	3.35	1.06	3.29	1.09	3.25	1.13	3.21	1.17	3.10	1.29
2	3.44	1.01	3.42	1.01	3.37	1.04	3.32	1.08	3.27	1.12	3.13	1.24
5	3.50	0.92	3.53	0.93	3.49	0.97	3.44	1.00	3.37	1.05	3.18	1.17
7	3.54	0.87	3.60	0.88	3.50	0.94	3.52	0.96	3.45	1.01	3.22	1.13
10	3.62	0.81	3.73	0.82	3.72	0.87	3.66	0.91	3.58	0.96	3.30	1.08
15	3.81	0.76	4.00	0.79	4.01	0.85	3.95	0.89	3.84	0.94	3.49	1.07
20	4.08	0.85	4.36	0.88	4.40	0.95	4.34	0.99	4.21	1.05	3.79	1.18
24	4.39	1.03	4.73	1.08	4.80	1.15	4.74	1.20	4.60	1.25	4.12	1.39

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR7500

AR18TXFCAWKNEU+AR18TXFCAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	5.01	4.38	0.64	5.33	4.55	0.74	5.87	4.82	0.86	6.26	5.01	0.92	6.47	5.11	0.94	6.91	5.31	0.95	7.40	5.51	0.94
0	5.00	4.37	0.70	5.33	4.54	0.81	5.86	4.81	0.94	6.25	5.00	0.99	6.45	5.09	1.01	6.89	5.29	1.02	7.36	5.49	0.99
10	4.85	4.25	0.73	5.17	4.41	0.85	5.69	4.67	0.98	6.07	4.85	1.04	6.27	4.95	1.06	6.69	5.14	1.06	7.15	5.33	1.03
20	4.60	4.03	0.76	4.90	4.18	0.90	5.40	4.43	1.06	5.76	4.61	1.12	5.95	4.70	1.14	6.36	4.88	1.15	6.79	5.07	1.11
25	4.44	3.89	0.80	4.74	4.04	0.95	5.22	4.28	1.12	5.57	4.45	1.19	5.75	4.54	1.21	6.15	4.72	1.22	6.57	4.90	1.18
32	4.20	3.68	0.90	4.48	3.82	1.07	4.94	4.05	1.26	5.27	4.21	1.34	5.44	4.30	1.36	5.82	4.47	1.37	6.22	4.64	1.34
35	4.09	3.59	0.97	4.37	3.72	1.14	4.81	3.95	1.34	5.00	4.00	1.39	5.30	4.19	1.45	5.67	4.35	1.46	6.06	4.52	1.43
40	3.91	3.42	1.10	4.17	3.55	1.29	4.59	3.76	1.51	4.89	3.92	1.60	5.06	3.99	1.63	5.40	4.15	1.65	5.78	4.31	1.61
43	3.80	3.32	1.20	4.05	3.45	1.40	4.45	3.65	1.63	4.75	3.80	1.73	4.91	3.87	1.76	5.24	4.03	1.78	5.61	4.18	1.75
46	3.69	3.22	1.32	3.92	3.34	1.53	4.32	3.54	1.77	4.60	3.68	1.87	4.75	3.76	1.91	5.08	3.90	1.94	5.43	4.05	1.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	5.58	1.85	4.90	1.79	4.58	1.85	4.56	1.92	4.63	2.03	5.07	2.34
-10	5.43	1.98	4.87	1.93	4.57	1.97	4.52	2.04	4.54	2.13	4.80	2.41
-5	5.52	2.01	5.10	1.96	4.84	2.01	4.77	2.07	4.74	2.15	4.83	2.41
0	5.79	1.96	5.51	1.93	5.29	1.98	5.20	2.04	5.14	2.12	5.07	2.36
2	5.92	1.93	5.70	1.90	5.50	1.96	5.41	2.02	5.33	2.10	5.20	2.33
5	6.12	1.88	6.00	1.86	5.83	1.92	5.74	1.98	5.64	2.06	5.42	2.29
7	6.25	1.85	6.20	1.84	6.00	1.70	5.96	1.96	5.85	2.04	5.57	2.27
10	6.43	1.80	6.48	1.80	6.38	1.88	6.28	1.94	6.15	2.02	5.80	2.24
15	6.62	1.74	6.85	1.78	6.83	1.87	6.74	1.94	6.58	2.03	6.11	2.25
20	6.60	1.75	7.03	1.83	7.10	1.94	7.01	2.02	6.84	2.11	6.25	2.34
24	6.38	1.83	6.96	1.94	7.12	2.08	7.04	2.16	6.86	2.26	6.19	2.50

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR7500

AR24TXFCAWKNEU+AR24TXFCAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	6.74	5.60	1.10	7.07	5.80	1.27	7.57	6.13	1.46	7.95	6.37	1.54	8.17	6.49	1.56	8.69	6.73	1.58	9.35	6.98	1.57
0	6.19	5.18	1.03	6.54	5.39	1.22	7.07	5.74	1.42	7.47	5.98	1.50	7.70	6.11	1.52	8.24	6.36	1.53	8.90	6.62	1.50
10	6.26	5.24	1.11	6.62	5.45	1.32	7.15	5.80	1.54	7.56	6.04	1.62	7.79	6.17	1.64	8.32	6.42	1.65	8.98	6.68	1.61
20	6.49	5.41	1.29	6.84	5.61	1.53	7.36	5.95	1.78	7.75	6.19	1.87	7.97	6.31	1.90	8.48	6.56	1.91	9.12	6.81	1.86
25	6.52	5.43	1.41	6.86	5.62	1.67	7.37	5.95	1.93	7.74	6.18	2.03	7.96	6.30	2.06	8.45	6.54	2.07	9.07	6.78	2.03
32	6.33	5.26	1.60	6.66	5.45	1.88	7.12	5.75	2.17	7.48	5.97	2.29	7.68	6.08	2.32	8.14	6.31	2.34	8.73	6.53	2.30
35	6.14	5.10	1.69	6.45	5.27	1.98	6.90	5.57	2.28	6.50	5.20	1.95	7.43	5.89	2.44	7.88	6.11	2.46	8.46	6.32	2.42
40	5.61	4.66	1.83	5.89	4.82	2.14	6.31	5.10	2.47	6.62	5.30	2.61	6.80	5.40	2.65	7.23	5.60	2.68	7.77	5.81	2.64
43	5.14	4.28	1.92	5.42	4.44	2.24	5.81	4.70	2.59	6.10	4.89	2.73	6.28	4.98	2.77	6.68	5.18	2.81	7.21	5.37	2.77
46	4.56	3.81	2.01	4.82	3.96	2.35	5.18	4.20	2.71	5.46	4.38	2.86	5.62	4.47	2.90	6.01	4.66	2.94	6.52	4.84	2.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.94	2.44	6.07	2.35	5.66	2.43	5.63	2.53	5.70	2.67	6.15	3.06
-10	6.45	2.66	5.83	2.59	5.55	2.67	5.53	2.76	5.58	2.89	5.89	3.26
-5	6.53	2.70	6.16	2.65	6.00	2.73	5.98	2.82	6.00	2.94	6.16	3.28
0	7.00	2.61	6.87	2.58	6.81	2.67	6.79	2.76	6.78	2.88	6.78	3.20
2	7.26	2.56	7.22	2.54	7.19	2.63	7.17	2.72	7.15	2.84	7.08	3.16
5	7.67	2.47	7.77	2.46	7.79	2.57	7.77	2.66	7.72	2.78	7.55	3.09
7	7.96	2.41	8.13	2.42	7.40	2.35	8.17	2.62	8.10	2.74	7.85	3.05
10	8.35	2.33	8.66	2.36	8.76	2.48	8.73	2.58	8.64	2.70	8.27	3.00
15	8.85	2.27	9.35	2.34	9.52	2.49	9.47	2.59	9.33	2.71	8.76	3.02
20	8.96	2.35	9.65	2.46	9.87	2.64	9.80	2.75	9.60	2.88	8.83	3.19
24	8.65	2.56	9.48	2.71	9.74	2.92	9.65	3.04	9.40	3.18	8.45	3.49

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR5500

AR09TXFYAWKNEU+AR09TXFYAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	2.42	2.07	0.58	2.53	2.17	0.67	2.74	2.33	0.76	2.92	2.43	0.79	3.02	2.48	0.80	3.24	2.57	0.80	3.48	2.67	0.77
0	2.64	2.19	0.47	2.74	2.30	0.57	2.96	2.46	0.67	3.13	2.56	0.70	3.23	2.61	0.71	3.45	2.71	0.71	3.69	2.80	0.69
10	2.75	2.25	0.44	2.86	2.36	0.54	3.07	2.52	0.65	3.25	2.63	0.69	3.35	2.68	0.70	3.56	2.78	0.71	3.80	2.88	0.69
20	2.77	2.26	0.49	2.87	2.37	0.60	3.08	2.54	0.71	3.26	2.64	0.76	3.36	2.69	0.77	3.57	2.80	0.78	3.81	2.90	0.77
25	2.74	2.24	0.54	2.84	2.35	0.65	3.05	2.52	0.77	3.23	2.63	0.82	3.32	2.68	0.84	3.54	2.78	0.85	3.78	2.88	0.84
32	2.65	2.19	0.65	2.76	2.30	0.77	2.97	2.47	0.89	3.14	2.58	0.94	3.24	2.63	0.96	3.45	2.74	0.98	3.69	2.84	0.97
35	2.60	2.16	0.71	2.70	2.27	0.83	2.91	2.44	0.95	2.50	2.27	0.70	3.18	2.60	1.02	3.40	2.71	1.04	3.64	2.81	1.04
40	2.49	2.10	0.82	2.60	2.21	0.94	2.81	2.38	1.07	2.98	2.49	1.13	3.07	2.55	1.15	3.29	2.65	1.17	3.53	2.76	1.17
43	2.42	2.05	0.90	2.52	2.17	1.02	2.73	2.34	1.15	2.90	2.45	1.21	3.00	2.50	1.23	3.21	2.61	1.25	3.45	2.71	1.25
46	2.33	2.00	0.98	2.44	2.12	1.10	2.64	2.29	1.24	2.82	2.40	1.30	2.91	2.46	1.32	3.12	2.56	1.34	3.36	2.67	1.34

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.80	1.01	2.45	0.98	2.29	1.01	2.29	1.05	2.33	1.11	2.55	1.27
-10	2.89	1.08	2.62	1.06	2.48	1.08	2.46	1.12	2.48	1.17	2.60	1.32
-5	3.04	1.07	2.85	1.05	2.74	1.08	2.71	1.11	2.70	1.15	2.74	1.29
0	3.24	1.01	3.14	0.99	3.05	1.02	3.02	1.05	2.99	1.09	2.94	1.22
2	3.32	0.98	3.26	0.96	3.19	0.99	3.15	1.02	3.11	1.06	3.03	1.19
5	3.46	0.92	3.45	0.91	3.40	0.94	3.36	0.98	3.30	1.02	3.17	1.14
7	3.55	0.89	3.58	0.88	3.20	0.84	3.50	0.95	3.44	0.99	3.27	1.11
10	3.68	0.84	3.77	0.85	3.75	0.88	3.71	0.91	3.63	0.96	3.42	1.07
15	3.89	0.80	4.07	0.82	4.09	0.87	4.05	0.90	3.96	0.94	3.66	1.06
20	4.06	0.83	4.34	0.87	4.40	0.93	4.35	0.97	4.25	1.01	3.88	1.12
24	4.16	0.92	4.52	0.98	4.62	1.05	4.57	1.09	4.45	1.14	4.02	1.26

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR5500

AR12TXFYAWKNEU+AR12TXFYAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	3.03	2.74	0.90	3.26	2.77	0.98	3.62	2.83	1.07	3.87	2.90	1.10	3.99	2.94	1.11	4.24	3.03	1.11	4.50	3.14	1.08
0	3.29	2.85	0.78	3.51	2.88	0.87	3.86	2.95	0.96	4.10	3.03	1.00	4.22	3.07	1.01	4.46	3.17	1.01	4.71	3.29	0.99
10	3.38	2.87	0.76	3.60	2.91	0.85	3.94	2.99	0.95	4.17	3.07	0.99	4.28	3.11	1.00	4.52	3.22	1.01	4.75	3.34	0.99
20	3.32	2.81	0.82	3.53	2.85	0.92	3.85	2.94	1.02	4.07	3.02	1.06	4.19	3.07	1.08	4.41	3.18	1.09	4.64	3.31	1.08
25	3.23	2.74	0.89	3.43	2.78	0.98	3.75	2.88	1.09	3.97	2.97	1.14	4.08	3.02	1.15	4.30	3.13	1.16	4.53	3.26	1.15
32	3.03	2.61	1.01	3.23	2.66	1.11	3.54	2.76	1.23	3.75	2.85	1.27	3.86	2.90	1.29	4.08	3.02	1.30	4.30	3.16	1.30
35	2.92	2.54	1.08	3.12	2.59	1.18	3.43	2.70	1.30	3.50	2.80	1.22	3.74	2.84	1.36	3.95	2.96	1.38	4.17	3.10	1.37
40	2.71	2.41	1.21	2.90	2.46	1.32	3.20	2.57	1.43	3.41	2.67	1.48	3.51	2.72	1.50	3.72	2.85	1.52	3.94	2.99	1.52
43	2.56	2.32	1.30	2.75	2.38	1.41	3.05	2.49	1.52	3.25	2.59	1.58	3.35	2.64	1.59	3.56	2.77	1.61	3.77	2.91	1.61
46	2.40	2.23	1.40	2.59	2.28	1.51	2.88	2.40	1.62	3.08	2.50	1.68	3.18	2.55	1.70	3.39	2.68	1.72	3.60	2.82	1.72

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	2.94	1.19	2.69	1.16	2.58	1.17	2.58	1.20	2.61	1.24	2.77	1.35
-10	3.15	1.25	2.96	1.22	2.87	1.24	2.85	1.27	2.86	1.31	2.93	1.43
-5	3.29	1.19	3.17	1.17	3.09	1.20	3.07	1.23	3.05	1.27	3.02	1.39
0	3.40	1.07	3.35	1.06	3.29	1.09	3.25	1.13	3.21	1.17	3.10	1.29
2	3.44	1.01	3.42	1.01	3.37	1.04	3.32	1.08	3.27	1.12	3.13	1.24
5	3.50	0.92	3.53	0.93	3.49	0.97	3.44	1.00	3.37	1.05	3.18	1.17
7	3.54	0.87	3.60	0.88	3.50	0.94	3.52	0.96	3.45	1.01	3.22	1.13
10	3.62	0.81	3.73	0.82	3.72	0.87	3.66	0.91	3.58	0.96	3.30	1.08
15	3.81	0.76	4.00	0.79	4.01	0.85	3.95	0.89	3.84	0.94	3.49	1.07
20	4.08	0.85	4.36	0.88	4.40	0.95	4.34	0.99	4.21	1.05	3.79	1.18
24	4.39	1.03	4.73	1.08	4.80	1.15	4.74	1.20	4.60	1.25	4.12	1.39

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR5500

AR18TXFYAWKNEU+AR18TXFYAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	5.01	4.38	0.64	5.33	4.55	0.74	5.87	4.82	0.86	6.26	5.01	0.92	6.47	5.11	0.94	6.91	5.31	0.95	7.40	5.51	0.94
0	5.00	4.37	0.70	5.33	4.54	0.81	5.86	4.81	0.94	6.25	5.00	0.99	6.45	5.09	1.01	6.89	5.29	1.02	7.36	5.49	0.99
10	4.85	4.25	0.73	5.17	4.41	0.85	5.69	4.67	0.98	6.07	4.85	1.04	6.27	4.95	1.06	6.69	5.14	1.06	7.15	5.33	1.03
20	4.60	4.03	0.76	4.90	4.18	0.90	5.40	4.43	1.06	5.76	4.61	1.12	5.95	4.70	1.14	6.36	4.88	1.15	6.79	5.07	1.11
25	4.44	3.89	0.80	4.74	4.04	0.95	5.22	4.28	1.12	5.57	4.45	1.19	5.75	4.54	1.21	6.15	4.72	1.22	6.57	4.90	1.18
32	4.20	3.68	0.90	4.48	3.82	1.07	4.94	4.05	1.26	5.27	4.21	1.34	5.44	4.30	1.36	5.82	4.47	1.37	6.22	4.64	1.34
35	4.09	3.59	0.97	4.37	3.72	1.14	4.81	3.95	1.34	5.00	4.00	1.39	5.30	4.19	1.45	5.67	4.35	1.46	6.06	4.52	1.43
40	3.91	3.42	1.10	4.17	3.55	1.29	4.59	3.76	1.51	4.89	3.92	1.60	5.06	3.99	1.63	5.40	4.15	1.65	5.78	4.31	1.61
43	3.80	3.32	1.20	4.05	3.45	1.40	4.45	3.65	1.63	4.75	3.80	1.73	4.91	3.87	1.76	5.24	4.03	1.78	5.61	4.18	1.75
46	3.69	3.22	1.32	3.92	3.34	1.53	4.32	3.54	1.77	4.60	3.68	1.87	4.75	3.76	1.91	5.08	3.90	1.94	5.43	4.05	1.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	5.58	1.85	4.90	1.79	4.58	1.85	4.56	1.92	4.63	2.03	5.07	2.34
-10	5.43	1.98	4.87	1.93	4.57	1.97	4.52	2.04	4.54	2.13	4.80	2.41
-5	5.52	2.01	5.10	1.96	4.84	2.01	4.77	2.07	4.74	2.15	4.83	2.41
0	5.79	1.96	5.51	1.93	5.29	1.98	5.20	2.04	5.14	2.12	5.07	2.36
2	5.92	1.93	5.70	1.90	5.50	1.96	5.41	2.02	5.33	2.10	5.20	2.33
5	6.12	1.88	6.00	1.86	5.83	1.92	5.74	1.98	5.64	2.06	5.42	2.29
7	6.25	1.85	6.20	1.84	6.00	1.70	5.96	1.96	5.85	2.04	5.57	2.27
10	6.43	1.80	6.48	1.80	6.38	1.88	6.28	1.94	6.15	2.02	5.80	2.24
15	6.62	1.74	6.85	1.78	6.83	1.87	6.74	1.94	6.58	2.03	6.11	2.25
20	6.60	1.75	7.03	1.83	7.10	1.94	7.01	2.02	6.84	2.11	6.25	2.34
24	6.38	1.83	6.96	1.94	7.12	2.08	7.04	2.16	6.86	2.26	6.19	2.50

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR5500

AR24TXFYAWKNEU+AR24TXFYAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	6.74	5.60	1.10	7.07	5.80	1.27	7.57	6.13	1.46	7.95	6.37	1.54	8.17	6.49	1.56	8.69	6.73	1.58	9.35	6.98	1.57
0	6.19	5.18	1.03	6.54	5.39	1.22	7.07	5.74	1.42	7.47	5.98	1.50	7.70	6.11	1.52	8.24	6.36	1.53	8.90	6.62	1.50
10	6.26	5.24	1.11	6.62	5.45	1.32	7.15	5.80	1.54	7.56	6.04	1.62	7.79	6.17	1.64	8.32	6.42	1.65	8.98	6.68	1.61
20	6.49	5.41	1.29	6.84	5.61	1.53	7.36	5.95	1.78	7.75	6.19	1.87	7.97	6.31	1.90	8.48	6.56	1.91	9.12	6.81	1.86
25	6.52	5.43	1.41	6.86	5.62	1.67	7.37	5.95	1.93	7.74	6.18	2.03	7.96	6.30	2.06	8.45	6.54	2.07	9.07	6.78	2.03
32	6.33	5.26	1.60	6.66	5.45	1.88	7.12	5.75	2.17	7.48	5.97	2.29	7.68	6.08	2.32	8.14	6.31	2.34	8.73	6.53	2.30
35	6.14	5.10	1.69	6.45	5.27	1.98	6.90	5.57	2.28	6.50	5.20	1.95	7.43	5.89	2.44	7.88	6.11	2.46	8.46	6.32	2.42
40	5.61	4.66	1.83	5.89	4.82	2.14	6.31	5.10	2.47	6.62	5.30	2.61	6.80	5.40	2.65	7.23	5.60	2.68	7.77	5.81	2.64
43	5.14	4.28	1.92	5.42	4.44	2.24	5.81	4.70	2.59	6.10	4.89	2.73	6.28	4.98	2.77	6.68	5.18	2.81	7.21	5.37	2.77
46	4.56	3.81	2.01	4.82	3.96	2.35	5.18	4.20	2.71	5.46	4.38	2.86	5.62	4.47	2.90	6.01	4.66	2.94	6.52	4.84	2.91

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.94	2.44	6.07	2.35	5.66	2.43	5.63	2.53	5.70	2.67	6.15	3.06
-10	6.45	2.66	5.83	2.59	5.55	2.67	5.53	2.76	5.58	2.89	5.89	3.26
-5	6.53	2.70	6.16	2.65	6.00	2.73	5.98	2.82	6.00	2.94	6.16	3.28
0	7.00	2.61	6.87	2.58	6.81	2.67	6.79	2.76	6.78	2.88	6.78	3.20
2	7.26	2.56	7.22	2.54	7.19	2.63	7.17	2.72	7.15	2.84	7.08	3.16
5	7.67	2.47	7.77	2.46	7.79	2.57	7.77	2.66	7.72	2.78	7.55	3.09
7	7.96	2.41	8.13	2.42	7.40	2.35	8.17	2.62	8.10	2.74	7.85	3.05
10	8.35	2.33	8.66	2.36	8.76	2.48	8.73	2.58	8.64	2.70	8.27	3.00
15	8.85	2.27	9.35	2.34	9.52	2.49	9.47	2.59	9.33	2.71	8.76	3.02
20	8.96	2.35	9.65	2.46	9.87	2.64	9.80	2.75	9.60	2.88	8.83	3.19
24	8.65	2.56	9.48	2.71	9.74	2.92	9.65	3.04	9.40	3.18	8.45	3.49

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR9500

AR09TXEAAWKNEU+AR09TXEAAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	2.05	1.70	0.54	2.10	1.82	0.61	2.26	1.97	0.71	2.42	2.07	0.75	2.51	2.11	0.76	2.69	2.19	0.78	2.86	2.27	0.77
0	1.88	1.57	0.46	1.94	1.70	0.53	2.15	1.88	0.62	2.33	1.99	0.66	2.42	2.04	0.67	2.63	2.14	0.67	2.83	2.23	0.66
10	2.15	1.80	0.42	2.23	1.94	0.49	2.45	2.13	0.57	2.64	2.25	0.60	2.75	2.30	0.61	2.96	2.41	0.61	3.17	2.51	0.59
20	2.54	2.12	0.41	2.63	2.26	0.48	2.85	2.46	0.57	3.05	2.58	0.60	3.15	2.64	0.61	3.37	2.75	0.61	3.59	2.85	0.59
25	2.69	2.24	0.42	2.77	2.38	0.50	2.99	2.57	0.59	3.18	2.69	0.62	3.29	2.75	0.63	3.50	2.86	0.64	3.72	2.95	0.62
32	2.73	2.27	0.47	2.80	2.40	0.55	3.01	2.59	0.65	3.20	2.70	0.69	3.30	2.76	0.70	3.51	2.86	0.71	3.71	2.95	0.69
35	2.66	2.22	0.50	2.73	2.35	0.59	2.93	2.53	0.69	2.50	2.13	0.57	3.21	2.69	0.74	3.42	2.79	0.75	3.62	2.88	0.73
40	2.42	2.01	0.57	2.47	2.13	0.66	2.66	2.30	0.77	2.83	2.41	0.81	2.93	2.46	0.83	3.12	2.55	0.84	3.31	2.63	0.83
43	2.17	1.80	0.62	2.22	1.92	0.71	2.40	2.08	0.83	2.56	2.18	0.88	2.65	2.23	0.89	2.84	2.32	0.91	3.02	2.39	0.90
46	1.84	1.53	0.68	1.88	1.64	0.78	2.05	1.79	0.89	2.20	1.89	0.95	2.29	1.93	0.96	2.47	2.01	0.98	2.64	2.08	0.97

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.32	1.18	3.22	1.15	3.12	1.15	3.07	1.17	3.02	1.20	2.92	1.28
-10	3.56	1.20	3.47	1.18	3.37	1.20	3.32	1.22	3.27	1.25	3.17	1.34
-5	3.81	1.21	3.71	1.20	3.62	1.22	3.57	1.25	3.52	1.29	3.42	1.38
0	4.06	1.21	3.96	1.21	3.86	1.24	3.81	1.27	3.77	1.31	3.67	1.42
2	4.16	1.21	4.06	1.21	3.96	1.24	3.91	1.28	3.87	1.32	3.77	1.43
5	4.31	1.20	4.21	1.20	4.11	1.24	4.06	1.28	4.01	1.32	3.92	1.44
7	4.41	1.19	4.31	1.20	3.20	0.76	4.16	1.28	4.11	1.32	4.02	1.44
10	4.56	1.17	4.46	1.18	4.36	1.23	4.31	1.27	4.26	1.32	4.16	1.45
15	4.80	1.13	4.71	1.15	4.61	1.21	4.56	1.26	4.51	1.31	4.41	1.44
20	5.05	1.08	4.95	1.11	4.86	1.18	4.81	1.22	4.76	1.28	4.66	1.43
24	5.25	1.03	5.15	1.06	5.06	1.14	5.01	1.19	4.96	1.25	4.86	1.40

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR9500

AR12TXEAAWKNEU+AR12TXEAAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	3.03	2.53	0.74	3.17	2.72	0.86	3.45	2.97	0.98	3.68	3.13	1.02	3.81	3.21	1.04	4.08	3.35	1.04	4.39	3.48	1.02
0	3.37	2.81	0.63	3.51	2.99	0.74	3.78	3.24	0.86	4.00	3.39	0.91	4.12	3.47	0.92	4.40	3.60	0.93	4.70	3.73	0.91
10	3.52	2.93	0.57	3.66	3.11	0.68	3.92	3.36	0.81	4.14	3.51	0.86	4.26	3.58	0.87	4.53	3.71	0.88	4.83	3.83	0.86
20	3.49	2.91	0.57	3.62	3.08	0.69	3.88	3.32	0.81	4.09	3.47	0.86	4.21	3.54	0.88	4.47	3.67	0.89	4.77	3.79	0.87
25	3.41	2.84	0.59	3.54	3.01	0.71	3.79	3.25	0.84	4.00	3.40	0.89	4.12	3.46	0.90	4.38	3.59	0.92	4.67	3.71	0.90
32	3.22	2.68	0.65	3.35	2.85	0.77	3.59	3.09	0.90	3.80	3.23	0.95	3.92	3.30	0.97	4.17	3.42	0.98	4.46	3.54	0.96
35	3.11	2.59	0.69	3.24	2.76	0.81	3.48	2.99	0.93	3.50	2.98	0.93	3.80	3.20	1.00	4.06	3.33	1.02	4.35	3.44	1.00
40	2.89	2.41	0.76	3.02	2.58	0.88	3.26	2.81	1.01	3.46	2.95	1.06	3.58	3.02	1.08	3.83	3.14	1.09	4.11	3.25	1.07
43	2.74	2.29	0.81	2.86	2.45	0.93	3.10	2.68	1.06	3.30	2.82	1.11	3.42	2.89	1.13	3.67	3.01	1.14	3.95	3.12	1.13
46	2.57	2.15	0.86	2.69	2.31	0.98	2.93	2.54	1.11	3.13	2.68	1.17	3.24	2.74	1.18	3.49	2.86	1.20	3.77	2.98	1.18

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	3.27	1.18	3.17	1.15	3.07	1.15	3.03	1.17	2.98	1.20	2.88	1.28
-10	3.52	1.19	3.43	1.16	3.33	1.18	3.28	1.20	3.23	1.23	3.14	1.32
-5	3.78	1.19	3.68	1.17	3.59	1.19	3.54	1.22	3.49	1.26	3.39	1.36
0	4.03	1.18	3.94	1.18	3.84	1.21	3.79	1.24	3.74	1.28	3.65	1.39
2	4.14	1.18	4.04	1.18	3.94	1.22	3.89	1.25	3.85	1.29	3.75	1.41
5	4.29	1.17	4.19	1.18	4.10	1.22	4.05	1.26	4.00	1.31	3.90	1.43
7	4.39	1.17	4.30	1.18	4.00	1.07	4.15	1.27	4.10	1.31	4.00	1.44
10	4.55	1.16	4.45	1.18	4.35	1.23	4.30	1.28	4.25	1.33	4.16	1.46
15	4.80	1.15	4.70	1.18	4.61	1.24	4.56	1.29	4.51	1.34	4.41	1.48
20	5.06	1.14	4.96	1.17	4.86	1.25	4.81	1.30	4.77	1.36	4.67	1.51
24	5.26	1.12	5.16	1.17	5.07	1.25	5.02	1.30	4.97	1.37	4.87	1.53

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR9500

AR18TXEAAWKNEU+AR18TXEAAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	5.30	4.41	0.73	5.52	4.58	0.85	5.94	4.84	0.99	6.28	5.03	1.05	6.47	5.12	1.07	6.91	5.32	1.10	7.41	5.53	1.08
0	5.19	4.33	0.83	5.43	4.51	0.95	5.86	4.78	1.09	6.21	4.97	1.16	6.41	5.07	1.17	6.85	5.27	1.19	7.35	5.48	1.16
10	5.21	4.35	0.82	5.45	4.52	0.95	5.89	4.79	1.10	6.24	4.98	1.16	6.43	5.08	1.18	6.87	5.28	1.19	7.36	5.49	1.15
20	5.20	4.33	0.79	5.43	4.50	0.93	5.86	4.76	1.10	6.19	4.95	1.17	6.38	5.04	1.19	6.80	5.23	1.20	7.28	5.43	1.16
25	5.14	4.28	0.80	5.36	4.44	0.95	5.77	4.69	1.13	6.10	4.87	1.20	6.28	4.96	1.22	6.69	5.15	1.23	7.15	5.34	1.19
32	4.93	4.10	0.86	5.14	4.25	1.03	5.52	4.49	1.23	5.83	4.66	1.31	6.01	4.75	1.33	6.39	4.92	1.35	6.83	5.11	1.31
35	4.78	3.98	0.92	4.99	4.13	1.10	5.36	4.36	1.30	5.00	4.00	1.39	5.83	4.61	1.41	6.20	4.78	1.43	6.63	4.96	1.39
40	4.46	3.71	1.06	4.65	3.85	1.25	5.00	4.07	1.46	5.28	4.22	1.56	5.44	4.30	1.59	5.79	4.46	1.61	6.20	4.63	1.57
43	4.20	3.50	1.18	4.38	3.63	1.37	4.71	3.84	1.60	4.98	3.99	1.70	5.14	4.06	1.73	5.48	4.22	1.75	5.87	4.38	1.72
46	3.90	3.25	1.32	4.07	3.37	1.52	4.38	3.57	1.76	4.64	3.71	1.86	4.78	3.79	1.90	5.11	3.94	1.93	5.49	4.09	1.90

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	5.67	1.76	4.94	1.70	4.63	1.76	4.62	1.83	4.71	1.93	5.16	2.22
-10	5.59	1.89	5.00	1.83	4.70	1.88	4.66	1.94	4.69	2.04	4.93	2.30
-5	5.77	1.91	5.33	1.86	5.07	1.91	5.01	1.97	4.98	2.05	5.03	2.29
0	6.15	1.87	5.87	1.83	5.66	1.88	5.57	1.93	5.50	2.01	5.36	2.24
2	6.33	1.84	6.13	1.81	5.94	1.86	5.85	1.92	5.75	1.99	5.55	2.21
5	6.64	1.79	6.54	1.77	6.39	1.83	6.29	1.89	6.17	1.97	5.87	2.18
7	6.85	1.76	6.82	1.75	6.00	1.70	6.60	1.87	6.47	1.95	6.10	2.16
10	7.16	1.72	7.26	1.73	7.18	1.80	7.08	1.86	6.92	1.94	6.46	2.16
15	7.65	1.70	7.94	1.73	7.96	1.83	7.85	1.90	7.67	1.98	7.07	2.20
20	8.01	1.76	8.53	1.83	8.64	1.95	8.54	2.03	8.34	2.13	7.61	2.35
24	8.17	1.89	8.87	1.99	9.07	2.14	8.98	2.23	8.77	2.34	7.94	2.57

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR9500

AR24TXEAAWKNEU+AR24TXEAAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	6.36	5.31	1.08	6.66	5.68	1.28	7.23	6.20	1.49	7.69	6.52	1.56	7.94	6.67	1.57	8.50	6.96	1.56	9.11	7.22	1.49
0	6.70	5.59	1.04	6.99	5.95	1.26	7.53	6.45	1.49	7.97	6.75	1.57	8.21	6.89	1.59	8.75	7.17	1.59	9.34	7.42	1.53
10	6.77	5.64	1.10	7.04	5.98	1.34	7.55	6.46	1.58	7.97	6.75	1.68	8.20	6.89	1.70	8.72	7.15	1.72	9.30	7.39	1.67
20	6.56	5.46	1.26	6.80	5.79	1.50	7.29	6.25	1.77	7.69	6.52	1.88	7.92	6.65	1.91	8.41	6.90	1.93	8.97	7.12	1.90
25	6.35	5.28	1.37	6.58	5.61	1.62	7.05	6.05	1.89	7.45	6.32	2.01	7.67	6.45	2.04	8.15	6.69	2.08	8.70	6.91	2.05
32	5.94	4.94	1.56	6.16	5.25	1.82	6.61	5.68	2.11	6.99	5.94	2.23	7.20	6.07	2.27	7.67	6.30	2.31	8.21	6.51	2.30
35	5.72	4.75	1.66	5.93	5.06	1.92	6.37	5.49	2.22	6.50	5.53	1.95	6.96	5.87	2.39	7.42	6.09	2.43	7.95	6.30	2.42
40	5.30	4.40	1.84	5.50	4.71	2.11	5.93	5.12	2.41	6.29	5.37	2.55	6.50	5.49	2.59	6.96	5.71	2.64	7.48	5.91	2.64
43	5.01	4.17	1.96	5.21	4.47	2.23	5.63	4.88	2.54	5.99	5.12	2.68	6.19	5.24	2.73	6.64	5.45	2.78	7.15	5.65	2.78
46	4.70	3.91	2.08	4.89	4.20	2.36	5.30	4.61	2.68	5.66	4.85	2.82	5.85	4.96	2.87	6.30	5.17	2.93	6.81	5.36	2.93

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	6.82	2.42	5.99	2.35	5.60	2.42	5.58	2.52	5.66	2.66	6.18	3.06
-10	6.62	2.69	5.98	2.61	5.65	2.68	5.61	2.77	5.64	2.90	5.96	3.27
-5	6.75	2.73	6.31	2.66	6.04	2.73	5.97	2.81	5.96	2.93	6.08	3.27
0	7.10	2.62	6.86	2.58	6.66	2.65	6.58	2.73	6.52	2.85	6.44	3.17
2	7.28	2.56	7.12	2.52	6.95	2.60	6.86	2.68	6.78	2.79	6.63	3.11
5	7.57	2.45	7.53	2.43	7.41	2.52	7.32	2.60	7.21	2.71	6.95	3.02
7	7.77	2.38	7.82	2.38	7.40	2.35	7.63	2.55	7.51	2.66	7.17	2.97
10	8.06	2.29	8.24	2.31	8.20	2.41	8.10	2.50	7.95	2.61	7.50	2.91
15	8.48	2.22	8.87	2.28	8.91	2.41	8.80	2.51	8.61	2.62	8.00	2.92
20	8.71	2.32	9.32	2.42	9.46	2.59	9.35	2.70	9.12	2.82	8.33	3.13
24	8.70	2.57	9.49	2.71	9.70	2.91	9.59	3.03	9.34	3.17	8.41	3.49

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR9500

AR09TXCAAWKNEU+AR09TXCAAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	2.31	1.92	0.49	2.40	2.06	0.56	2.59	2.24	0.63	2.76	2.35	0.66	2.85	2.41	0.66	3.05	2.50	0.65	3.28	2.59	0.63
0	2.50	2.08	0.36	2.60	2.22	0.44	2.80	2.41	0.52	2.97	2.53	0.55	3.06	2.58	0.56	3.27	2.68	0.55	3.51	2.77	0.53
10	2.64	2.20	0.32	2.75	2.34	0.41	2.95	2.54	0.49	3.13	2.66	0.53	3.22	2.71	0.54	3.44	2.82	0.54	3.68	2.92	0.52
20	2.73	2.28	0.37	2.84	2.42	0.46	3.06	2.63	0.55	3.24	2.75	0.59	3.34	2.81	0.60	3.56	2.92	0.61	3.81	3.02	0.60
25	2.76	2.30	0.42	2.88	2.45	0.51	3.10	2.66	0.61	3.28	2.78	0.65	3.38	2.84	0.67	3.60	2.95	0.68	3.85	3.05	0.67
32	2.78	2.32	0.53	2.90	2.47	0.63	3.12	2.68	0.73	3.31	2.81	0.78	3.41	2.87	0.79	3.64	2.98	0.81	3.89	3.09	0.80
35	2.78	2.32	0.59	2.90	2.47	0.69	3.13	2.68	0.80	2.50	2.13	0.54	3.42	2.87	0.86	3.65	2.99	0.87	3.90	3.10	0.87
40	2.78	2.32	0.71	2.90	2.47	0.81	3.13	2.68	0.92	3.32	2.81	0.97	3.42	2.88	0.98	3.65	2.99	1.00	3.91	3.10	1.00
43	2.76	2.31	0.79	2.89	2.46	0.89	3.12	2.68	1.00	3.31	2.81	1.05	3.42	2.87	1.07	3.65	2.99	1.09	3.91	3.10	1.09
46	2.75	2.30	0.88	2.87	2.45	0.98	3.11	2.67	1.10	3.30	2.80	1.15	3.41	2.87	1.17	3.64	2.99	1.19	3.91	3.10	1.19

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	4.75	1.58	4.18	1.54	3.92	1.59	3.91	1.65	3.97	1.73	4.29	2.00
-10	4.64	1.66	4.20	1.62	3.98	1.66	3.96	1.71	3.99	1.79	4.19	2.03
-5	4.64	1.61	4.32	1.57	4.15	1.61	4.12	1.66	4.12	1.73	4.20	1.94
0	4.70	1.47	4.51	1.45	4.39	1.48	4.35	1.53	4.32	1.59	4.28	1.78
2	4.74	1.40	4.60	1.38	4.50	1.42	4.46	1.46	4.42	1.52	4.33	1.70
5	4.80	1.29	4.75	1.28	4.67	1.32	4.63	1.36	4.57	1.42	4.42	1.58
7	4.85	1.21	4.84	1.21	3.20	0.68	4.74	1.29	4.67	1.35	4.48	1.51
10	4.91	1.11	4.99	1.11	4.96	1.16	4.91	1.20	4.83	1.25	4.56	1.40
15	4.98	0.97	5.20	1.00	5.23	1.05	5.18	1.09	5.07	1.14	4.69	1.28
20	5.00	0.93	5.35	0.97	5.44	1.04	5.38	1.08	5.25	1.13	4.77	1.26
24	4.94	0.98	5.41	1.05	5.55	1.12	5.49	1.16	5.34	1.21	4.77	1.34

NOTE

- The performance table shows the average value of each conditions.

2 Capacity Table

AR9500

AR12TXCAAWKNEU+AR12TXCAAWKXEU

Cooling

TC : Total Capacity, SHC : Sensible Heat Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB / WB)																				
	20 / 14			22 / 16			25 / 18			27 / 19			28 / 20			30 / 22			32 / 24		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-10	3.32	2.76	0.72	3.40	2.93	0.82	3.66	3.17	0.94	3.90	3.32	0.99	4.03	3.39	1.01	4.30	3.52	1.03	4.58	3.63	1.02
0	3.15	2.63	0.54	3.26	2.81	0.64	3.55	3.08	0.75	3.82	3.25	0.80	3.96	3.33	0.82	4.26	3.48	0.82	4.56	3.60	0.80
10	3.41	2.85	0.53	3.53	3.04	0.64	3.85	3.33	0.76	4.13	3.51	0.80	4.28	3.59	0.82	4.59	3.75	0.82	4.91	3.89	0.79
20	3.79	3.16	0.64	3.91	3.36	0.76	4.24	3.65	0.89	4.52	3.83	0.94	4.68	3.92	0.96	5.00	4.08	0.96	5.32	4.22	0.93
25	3.93	3.28	0.73	4.05	3.47	0.85	4.38	3.77	0.99	4.66	3.95	1.05	4.82	4.03	1.06	5.14	4.20	1.07	5.46	4.34	1.03
32	3.98	3.31	0.86	4.10	3.51	0.99	4.41	3.80	1.15	4.69	3.97	1.21	4.84	4.06	1.23	5.16	4.22	1.24	5.48	4.35	1.21
35	3.92	3.27	0.91	4.04	3.46	1.06	4.35	3.74	1.22	3.50	2.98	0.89	4.77	4.00	1.31	5.09	4.16	1.32	5.40	4.29	1.29
40	3.70	3.08	1.00	3.81	3.27	1.16	4.11	3.55	1.33	4.38	3.72	1.41	4.52	3.80	1.43	4.83	3.94	1.45	5.14	4.07	1.43
43	3.48	2.90	1.05	3.58	3.08	1.21	3.87	3.35	1.40	4.13	3.51	1.48	4.27	3.59	1.51	4.57	3.74	1.53	4.88	3.86	1.51
46	3.18	2.64	1.09	3.27	2.82	1.26	3.55	3.08	1.46	3.80	3.25	1.55	3.94	3.32	1.57	4.24	3.46	1.60	4.53	3.58	1.58

Heating

TC : Total Capacity, PI : Power Input

Outdoor Temperature (°C, DB)	Indoor Temperature (°C, DB)											
	16		18		20		21		22		24	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
-15	5.17	1.95	4.71	1.90	4.52	1.96	4.54	2.04	4.63	2.15	5.05	2.48
-10	5.41	2.17	4.94	2.11	4.68	2.17	4.63	2.24	4.63	2.34	4.82	2.63
-5	5.58	2.09	5.14	2.05	4.83	2.10	4.73	2.16	4.67	2.25	4.67	2.51
0	5.68	1.84	5.31	1.81	4.99	1.85	4.86	1.91	4.74	1.98	4.58	2.21
2	5.70	1.70	5.36	1.68	5.05	1.72	4.91	1.78	4.78	1.85	4.56	2.07
5	5.71	1.49	5.43	1.47	5.14	1.52	4.99	1.57	4.84	1.64	4.55	1.84
7	5.70	1.34	5.47	1.33	4.00	0.94	5.05	1.43	4.89	1.50	4.56	1.69
10	5.66	1.14	5.52	1.14	5.29	1.20	5.14	1.24	4.97	1.31	4.59	1.48
15	5.54	0.90	5.57	0.92	5.42	0.98	5.29	1.03	5.13	1.08	4.68	1.24
20	5.34	0.86	5.57	0.91	5.55	0.97	5.46	1.02	5.30	1.07	4.84	1.21
24	5.12	1.03	5.54	1.10	5.65	1.18	5.59	1.22	5.46	1.27	5.00	1.40

NOTE

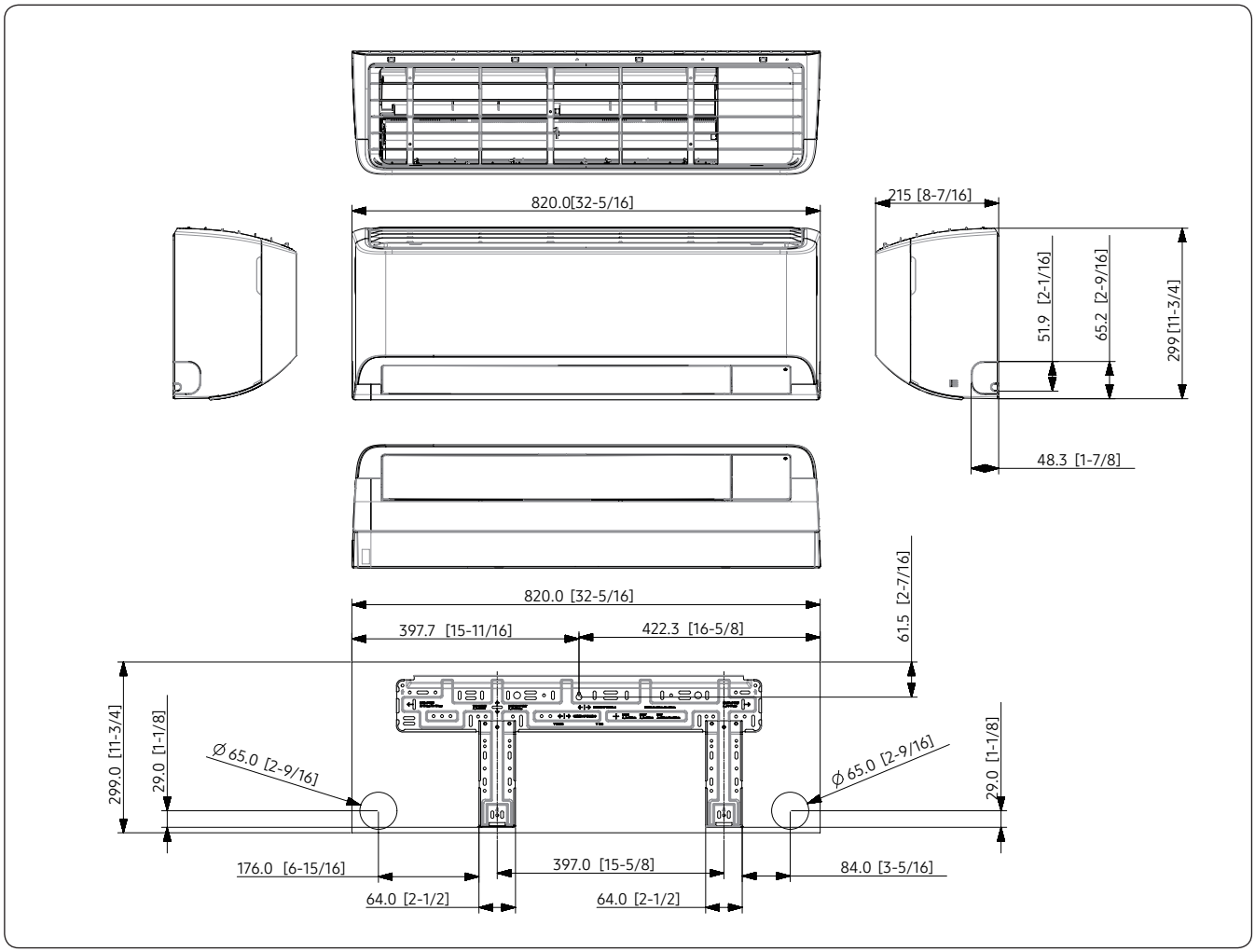
- The performance table shows the average value of each conditions.

3. Dimensional Drawing

Indoor units

AR4500 : AR09TXHZAWKNEU, AR12TXHZAWKNEU
AR7500 : AR09TXFCAWKNEU, AR12TXFCAWKNEU
AR5500 : AR09TXFYAWKNEU, AR12TXFYAWKNEU

Unit: mm (inches)

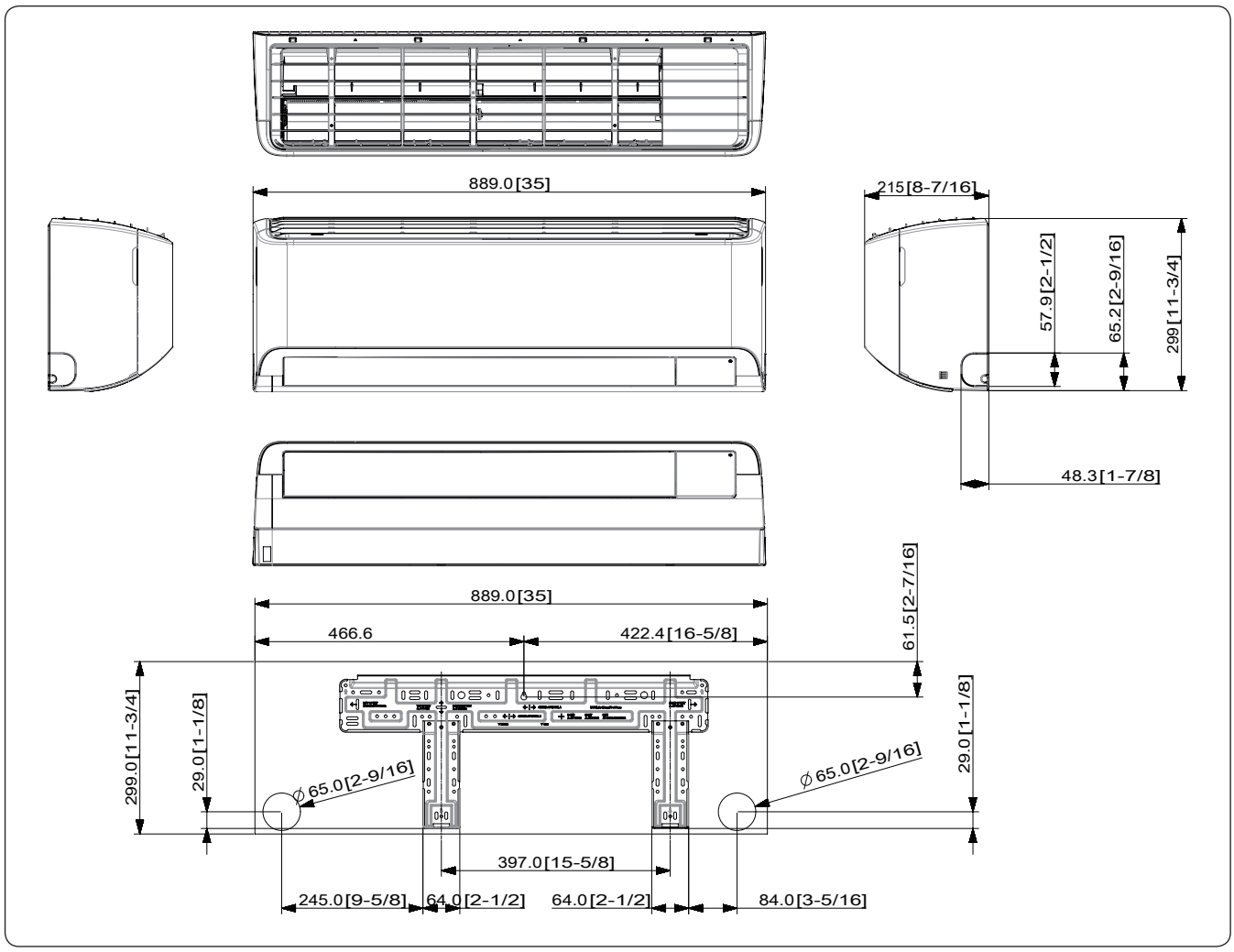


3. Dimensional Drawing

Indoor units

AR9500 : AR09TXEAAWKNEU, AR12TXEAAWKNEU, AR09TXCAAWKNEU, AR12TXCAAWKNEU

Unit: mm (inches)

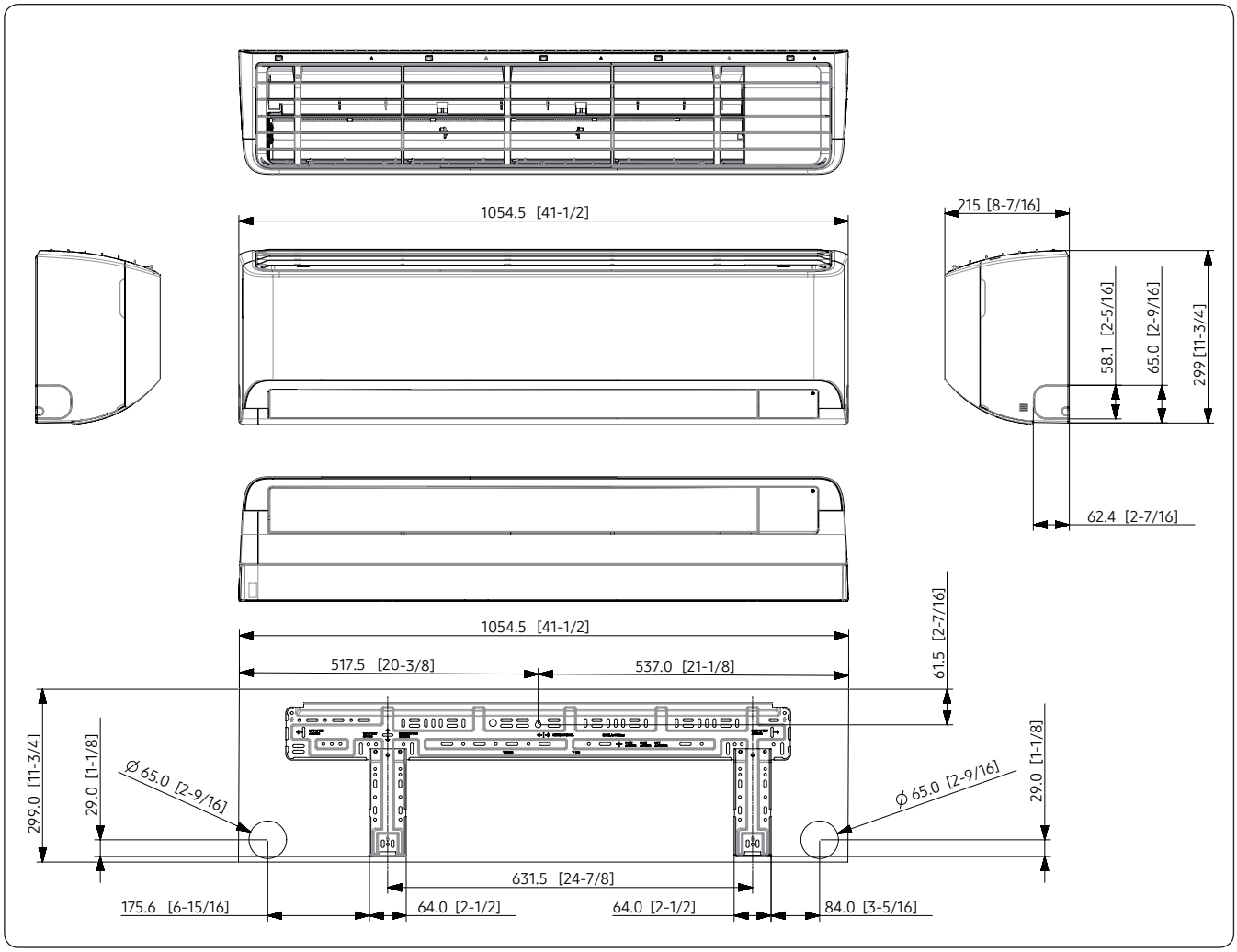


3. Dimensional Drawing

Indoor units

AR4500 : AR18TXHZAWKNEU, AR24TXHZAWKNEU
AR7500 : AR18TXFCAWKNEU, AR24TXFCAWKNEU
AR5500 : AR18TXFYAWKNEU, AR24TXFYAWKNEU
AR9500 : AR18TXEAAWKNEU, AR24TXEAAWKNEU

Unit: mm (inches)

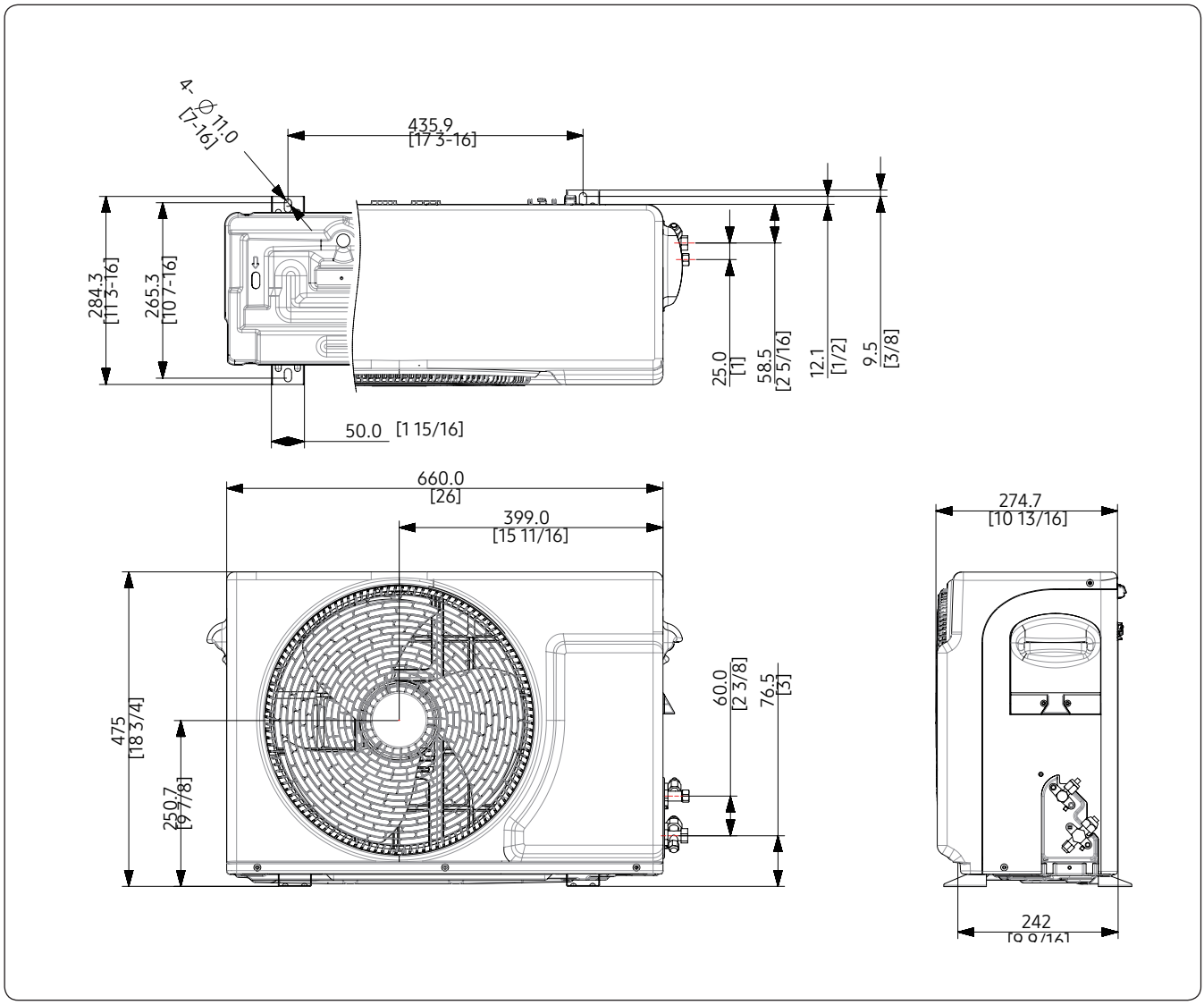


3. Dimensional Drawing

Outdoor units

AR4500 : AR09TXHZAWKXEU, AR12TXHZAWKXEU
AR7500 : AR09TXFCAWKXEU, AR12TXFCAWKXEU
AR5500 : AR09TXFYAWKXEU, AR12TXFYAWKXEU

Unit: mm (inches)

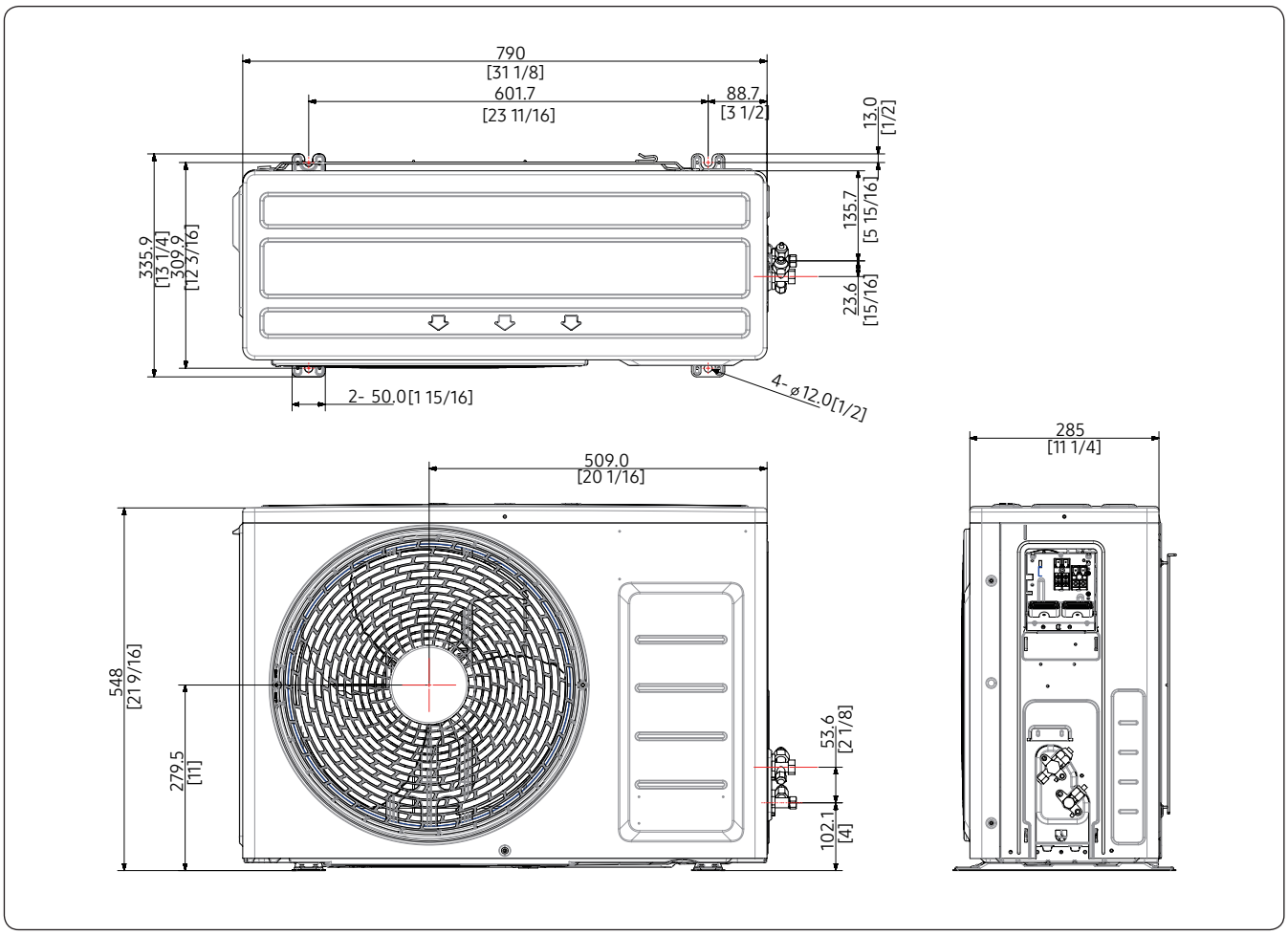


3. Dimensional Drawing

Outdoor units

AR9500 : AR09TXEAAWKXEU, AR12TXEAAWKXEU, AR09TXCAAWKXEU, AR12TXCAAWKXEU

Unit: mm (inches)

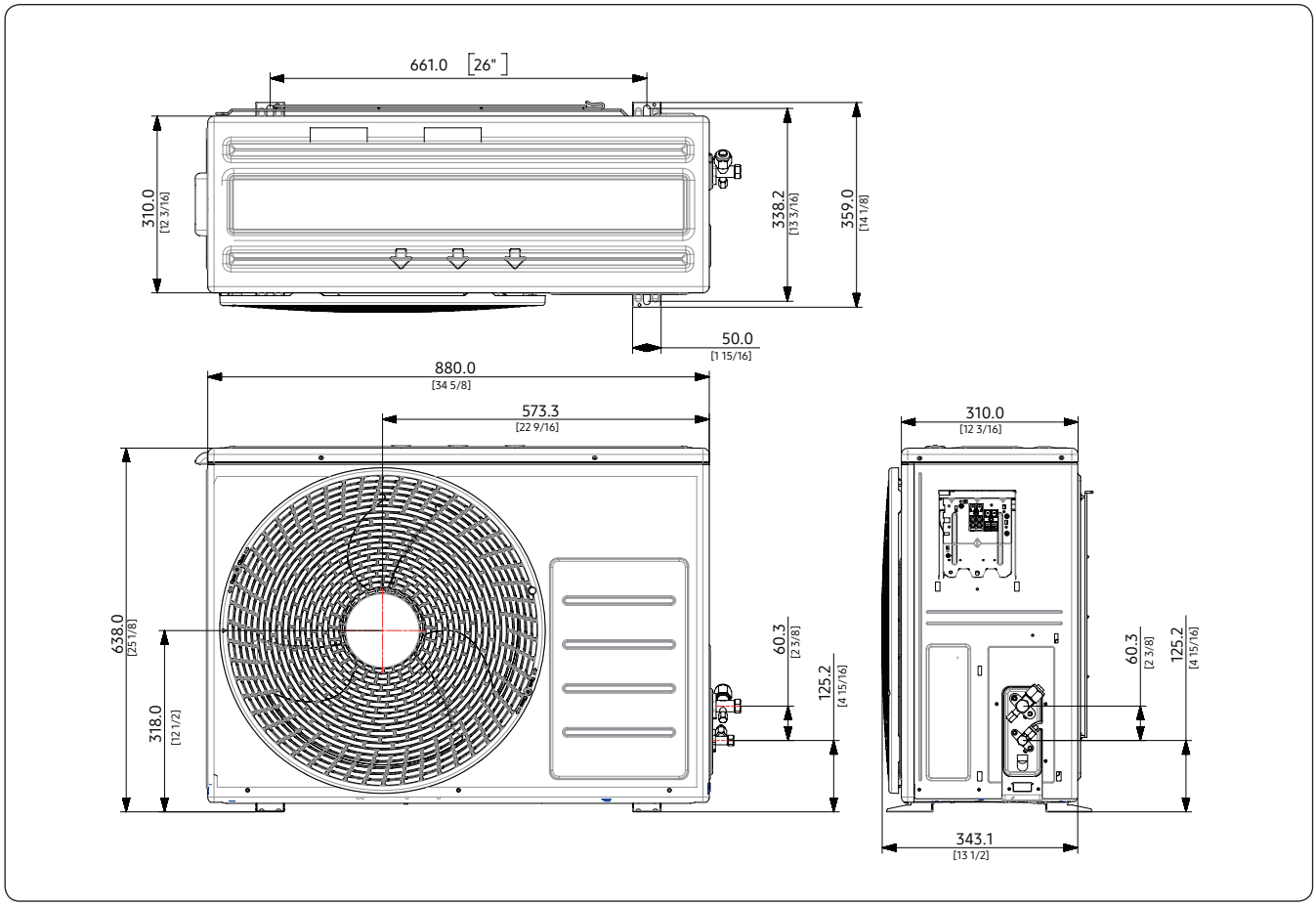


3. Dimensional Drawing

Outdoor units

AR4500 : AR18TXHZAWKXEU, AR24TXHZAWKXEU
AR7500 : AR18TXFCAWKXEU, AR24TXFCAWKXEU
AR5500 : AR18TXFYAWKXEU, AR24TXFYAWKXEU
AR9500 : AR18TXEAAWKXEU, AR24TXEAAWKXEU

Unit: mm (inches)

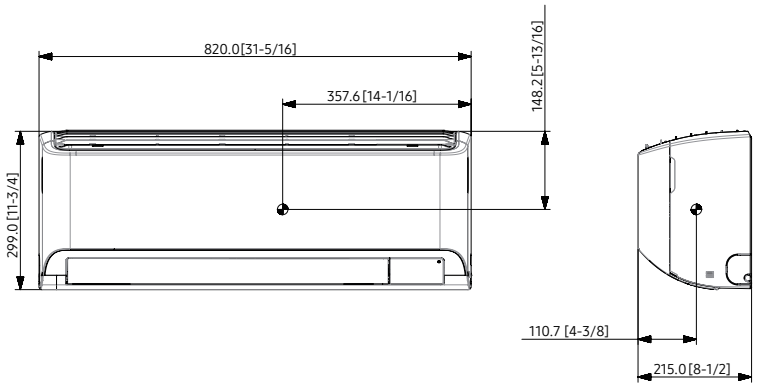


4. Center of Gravity

Indoor units

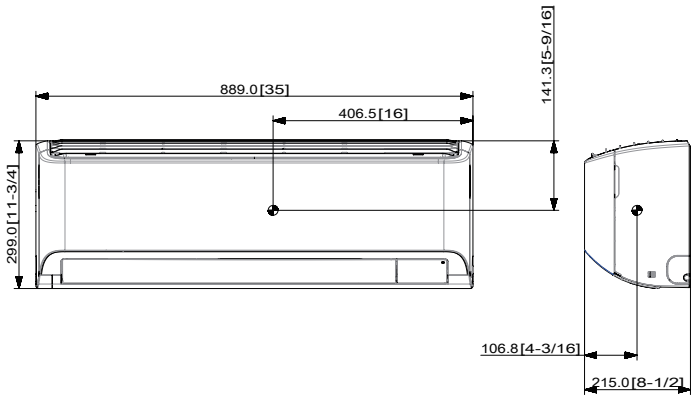
AR4500 : AR09TXHZAWKNEU, AR12TXHZAWKNEU
AR7500 : AR09TXFCAWKNEU, AR12TXFCAWKNEU
AR5500 : AR09TXFYAWKNEU, AR12TXFYAWKNEU

Unit: mm (inches)



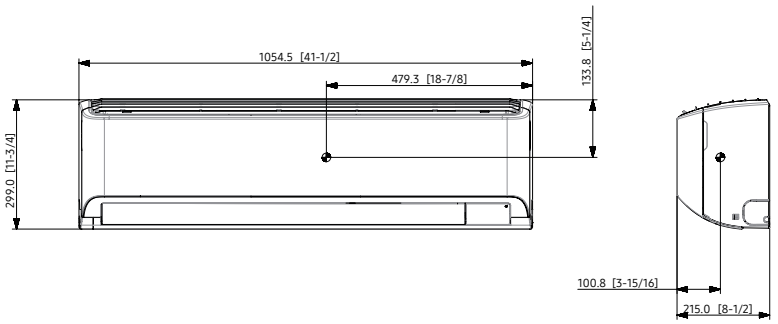
AR9500 : AR09TXEAAWKNEU, AR12TXEAAWKNEU, AR09TXCAAWKNEU, AR12TXCAAWKNEU

Unit: mm (inches)



AR4500 : AR18TXHZAWKNEU, AR24TXHZAWKNEU
AR7500 : AR18TXFCAWKNEU, AR24TXFCAWKNEU
AR5500 : AR18TXFYAWKNEU, AR24TXFYAWKNEU
AR9500 : AR18TXEAAWKNEU, AR24TXEAAWKNEU

Unit: mm (inches)

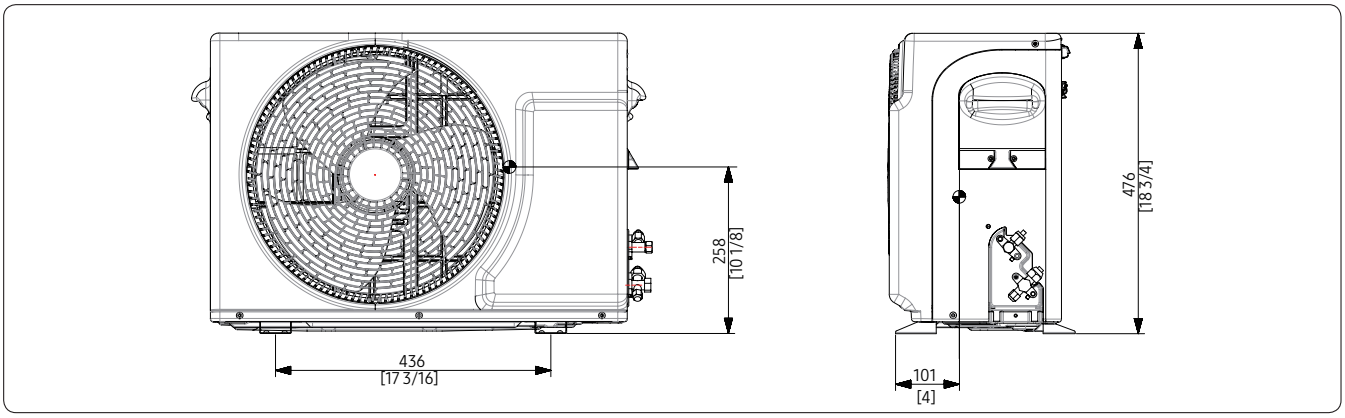


4. Center of Gravity

Outdoor units

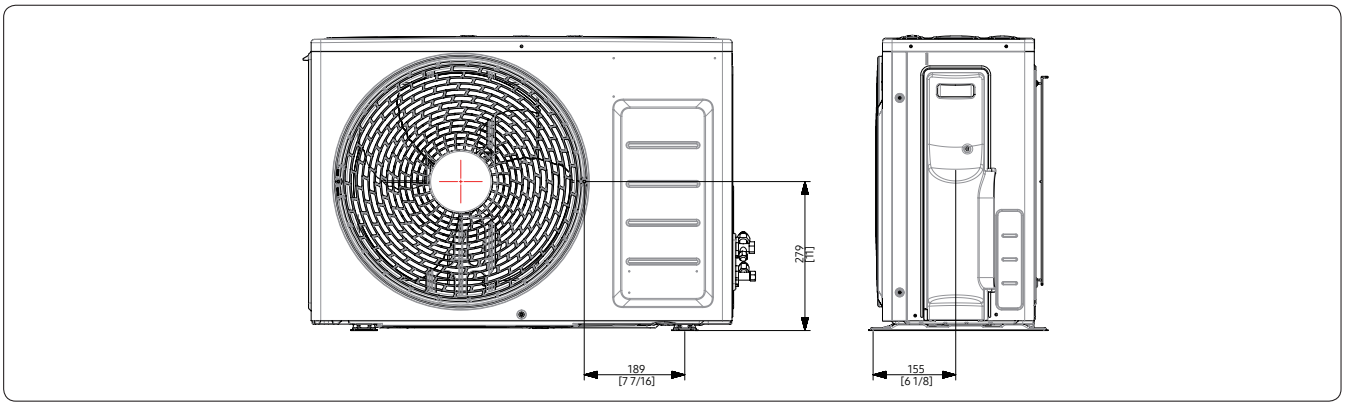
AR4500 : AR09TXHZAWKXEU, AR12TXHZAWKXEU
AR7500 : AR09TXFCAWKXEU, AR12TXFCAWKXEU
AR5500 : AR09TXFYAWKXEU, AR12TXFYAWKXEU

Unit: mm (inches)



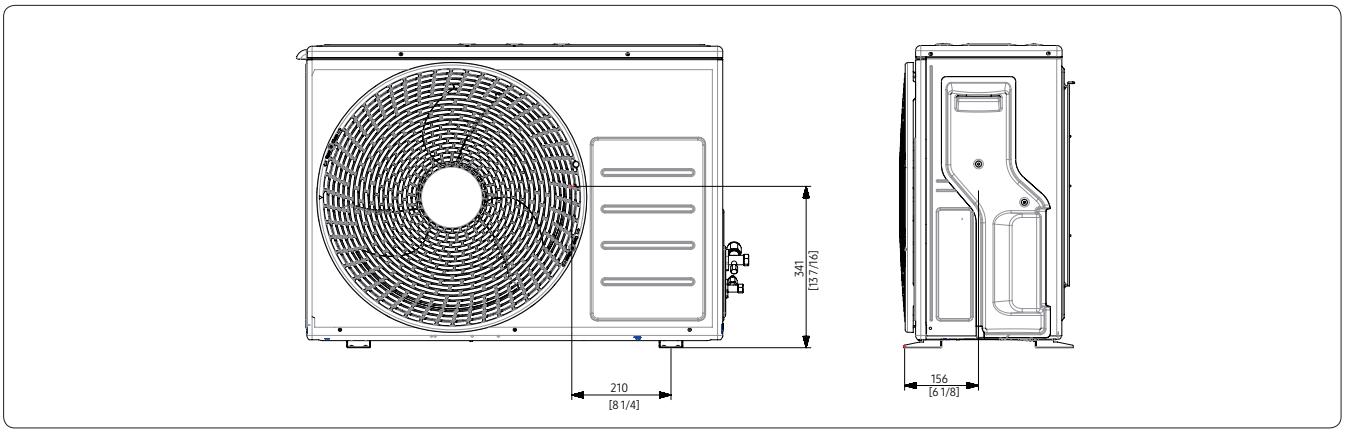
AR9500 : AR09TXEAAWKXEU, AR12TXEAAWKXEU, AR09TXCAAWKXEU, AR12TXCAAWKXEU

Unit: mm (inches)



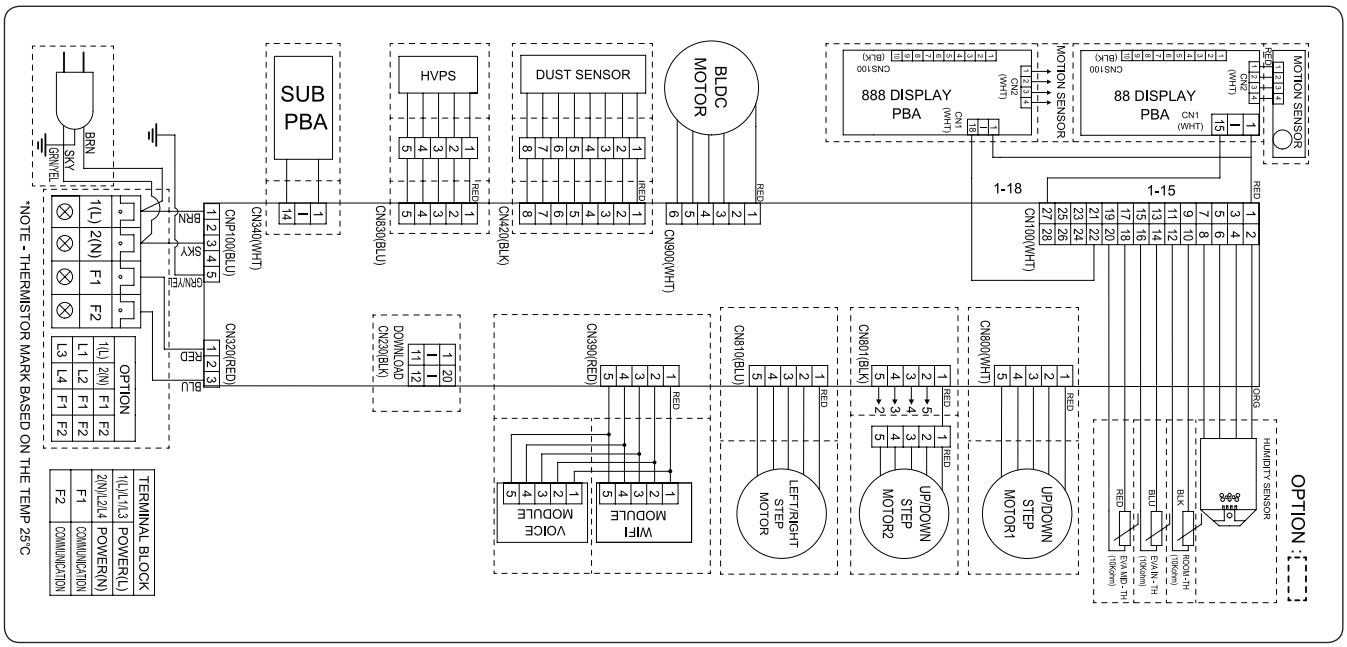
AR4500 : AR18TXHZAWKXEU, AR24TXHZAWKXEU
AR7500 : AR18TXFCAWKXEU, AR24TXFCAWKXEU
AR5500 : AR18TXFYAWKXEU, AR24TXFYAWKXEU
AR9500 : AR18TXEAAWKXEU, AR24TXEAAWKXEU

Unit: mm (inches)



5. Electrical Wiring Diagram

Indoor units



MOTION SENSOR	SENSOR(MOTION)	DISPLAY	Printed circuit board(DISPLAY BOARD)	DUST SNESOR	SENSOR(DUST)
ROOM TH	Thermistor(Room Temp._10Kohm)	BLDC	Motor(BLDC FAN MOTOR)	HVPS	LOAD(HOVP MODULE)
EVA MID - TH	Thermistor(EVA MID Temp._10Kohm)	UP/DOWN STEP MOTOR1	Motor(STEP MOTOR)	WIFI MODULE	LOAD(WIFI MODULE)
EVA IN -TH	Thermistor(EVA IN Temp._10Kohm)	UP/DOWN STEP MOTOR2	Motor(STEP MOTOR)	SUB PBA	Printed circuit board(SUB BOARD)
HUMIDITY SENSOR	SENSOR(HUMIDITY)	LEFT/RIGHT STEP MOTOR	SENSOR(HUMIDITY)		

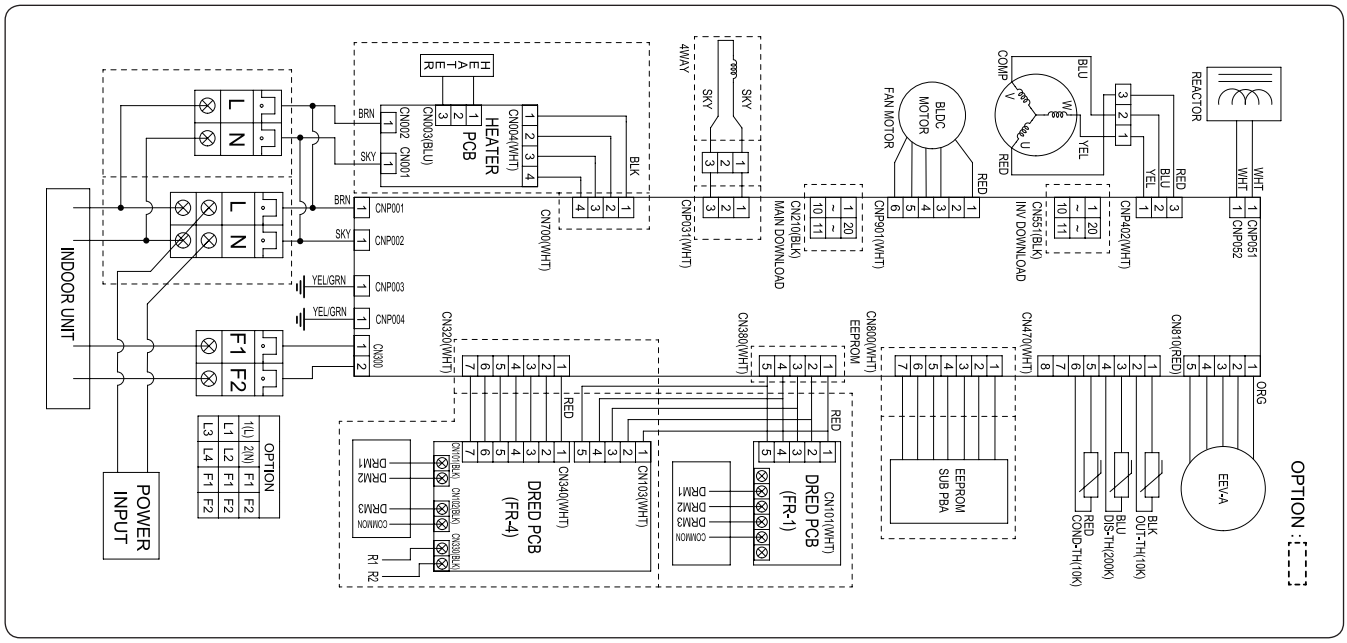
NOTE

- This wiring diagram applies only to the indoor unit.
- Colors BLK : black, BRN : brown, SKY-BLU : sky-blue, GRN/YEL : green/yellow, RED : red, YEL : yellow, ORG : orange, BLU : blue, WHT:white
- ⏚ : Protective earth(screw)

5. Electrical Wiring Diagram

Outdoor units

AR4500 : AR09TXHZAWKXEU, AR12TXHZAWKXEU, AR18TXHZAWKXEU
AR7500 : AR09TXFCAWKXEU, AR12TXFCAWKXEU, AR18TXFCAWKXEU
AR5500 : AR09TXFYAWKXEU, AR12TXFYAWKXEU, AR18TXFYAWKXEU
AR9500 : AR09TXEAAWKXEU, AR12TXEAAWKXEU, AR09TXCAAWKXEU, AR12TXCAAWKXEU, AR18TXEAAWKXEU



DRED	Printed circuit board(DRED PCB)	DIS-TH	Thermistor(Discharge Temp._200Kohm)
REACTOR	REACTOR	OUT-TH	Thermistor(AmbientTemp._10Kohm)
EEPROM	Printed circuit board(EEPROM PCB)	COND-TH	Thermistor(Cond Out Temp._10Kohm)
COMP	COMPRESSOR	BLDC	Motor(BLDC FAN Motor)
HEATER	Printed circuit board(HEATER PCB)	EEV-A	Electronic expansion valve A
4-WAY VALVE	4-WAY VALVE		

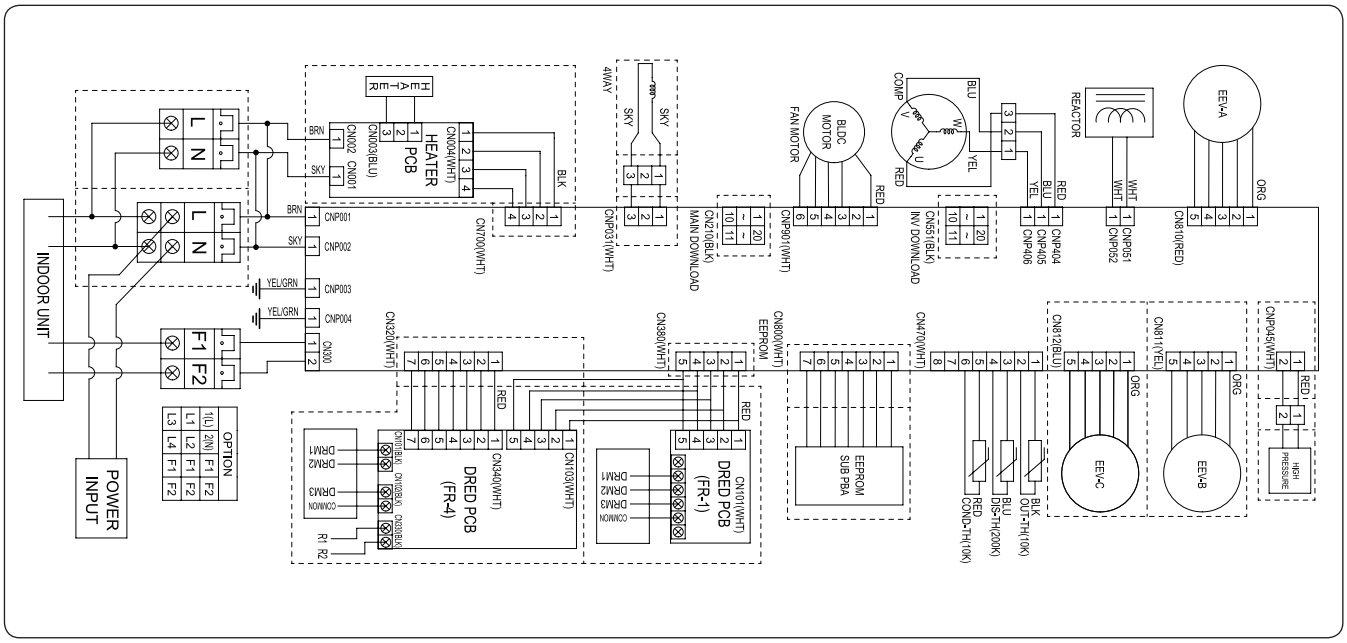
NOTE

- This wiring diagram applies only to the outdoor unit.
- Colors BLK : black, BRN : brown, SKY-BLU : sky-blue, GRN/YEL : green/yellow, RED : red, YEL : yellow, ORG : orange, BLU : blue, WHT:white
- ⏚ Protective earth(screw)

5. Electrical Wiring Diagram

Outdoor units

AR4500 : AR24TXHZAWKXEU
AR7500 : AR24TXFCAWKXEU
AR5500 : AR24TXFYAWKXEU
AR9500 : AR24TXEAAWKXEU



DRED	Printed circuit board(DRED PCB)	DIS-TH	Thermistor (Discharge Temp._200Kohm)	EEV-C	Electronic expansion valve C
REACTOR	REACTOR	OUT-TH	Thermistor (AmbientTemp._10Kohm)	EEV-A	Electronic expansion valve A
EEPROM	Printed circuit board(EEPROM PCB)	COND-TH	Thermistor (Cond Out Temp._10Kohm)	EEV-B	Electronic expansion valve B
COMP	COMPRESSOR	BLDC	Motor(BLDC FAN Motor)	HIGH PRESSURE	PRESSURE SWITCH
HEATER	Printed circuit board(HEATER PCB)	4-WAY VALVE	4WAY VALVE		

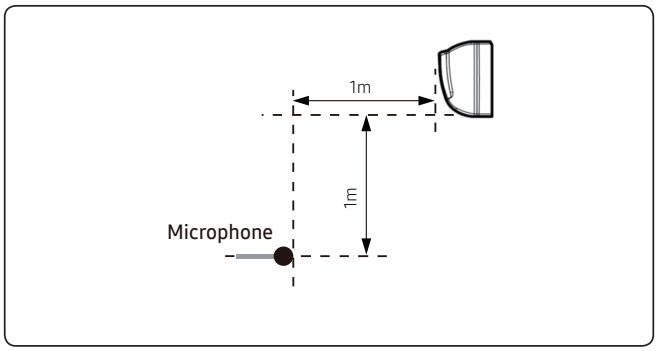
NOTE

- This wiring diagram applies only to the outdoor unit.
- Colors BLK : black, BRN : brown, SKY-BLU : sky-blue, GRN/YEL : green/yellow, RED : red, YEL : yellow, ORG : orange, BLU : blue, WHT:white
- ⏚ Protective earth(screw)

6. Sound Data

Indoor units : AR4500

Sound Pressure level

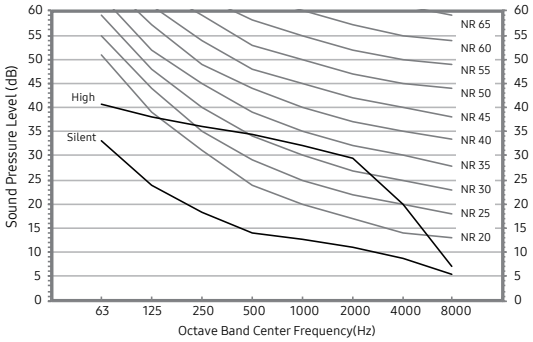


Unit: dB(A)

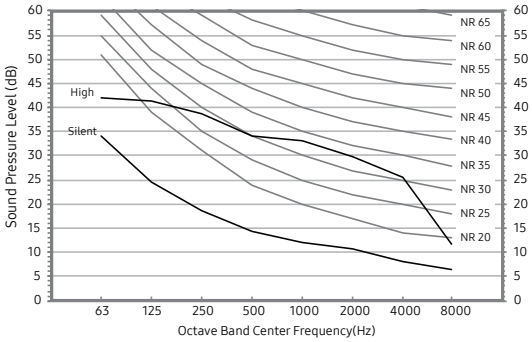
Model	Cooling	
	High	Silent
AR09TXHZAWKNEU	37	19
AR12TXHZAWKNEU	38	19
AR18TXHZAWKNEU	41	25
AR24TXHZAWKNEU	45	26

- NR Curve

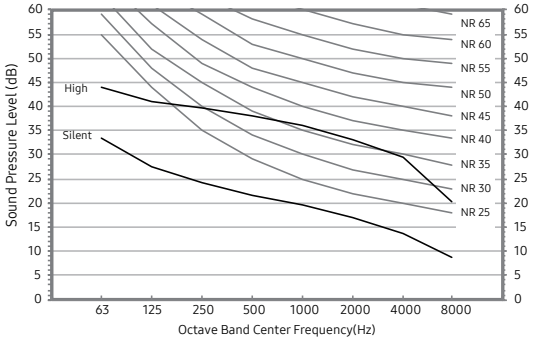
1) AR09TXHZAWKNEU



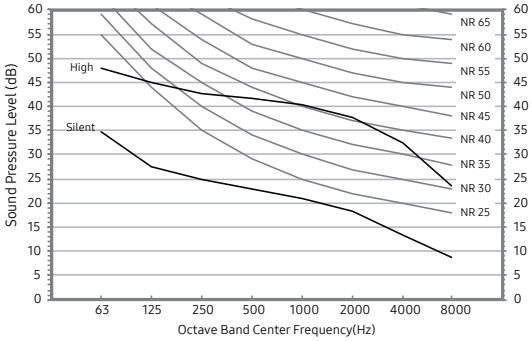
2) AR12TXHZAWKNEU



3) AR18TXHZAWKNEU



4) AR24TXHZAWKNEU



NOTE

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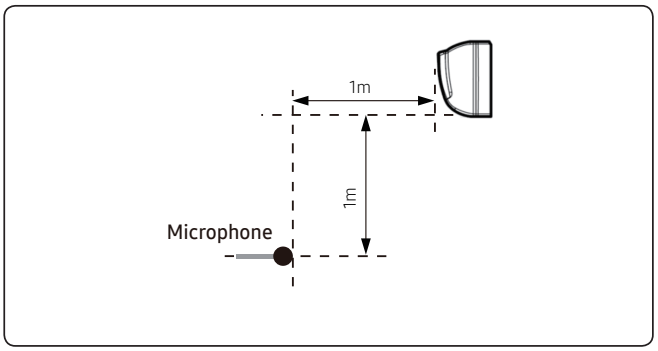
  - Reference acoustic pressure 0 dB = 20μPa

6. Sound Data

Indoor units : AR7500

Sound Pressure level

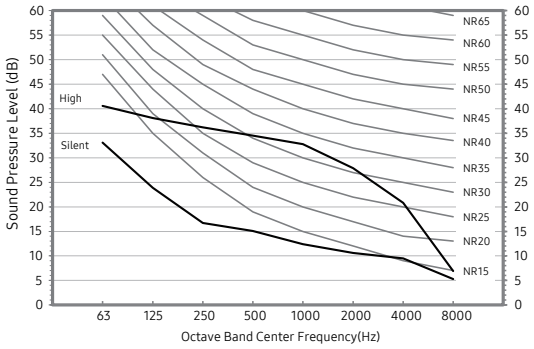


Unit: dB(A)

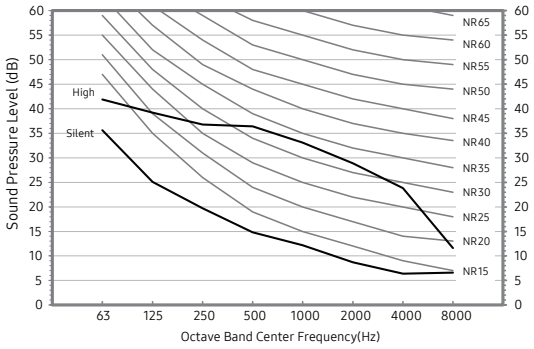
Model	Cooling	
	High	Silent
AR09TXFCAWKNEU	37	19
AR12TXFCAWKNEU	38	19
AR18TXFCAWKNEU	41	25
AR24TXFCAWKNEU	45	26

- NR Curve

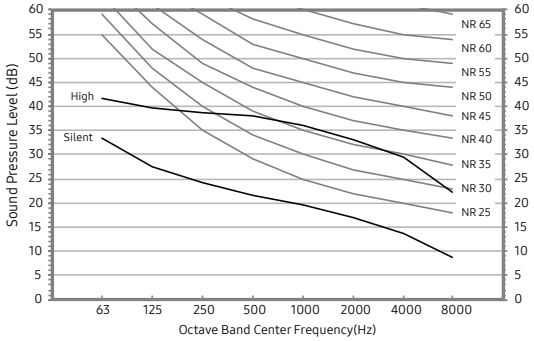
1) AR09TXFCAWKNEU



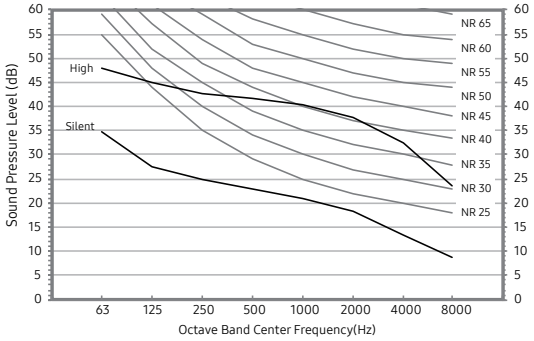
2) AR12TXFCAWKNEU



3) AR18TXFCAWKNEU



4) AR24TXFCAWKNEU



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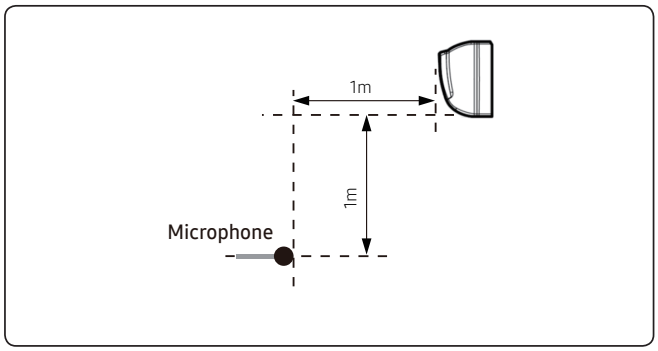
  - Reference acoustic pressure 0 dB = 20μPa

6. Sound Data

Indoor units : AR5500

Sound Pressure level

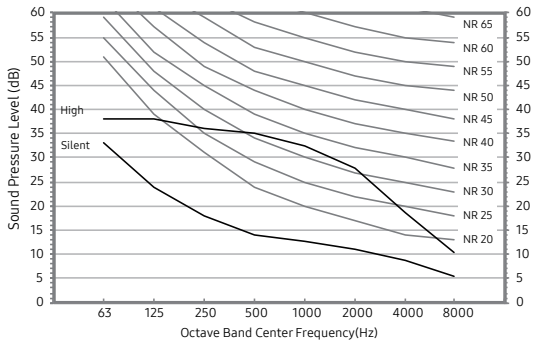


Unit: dB(A)

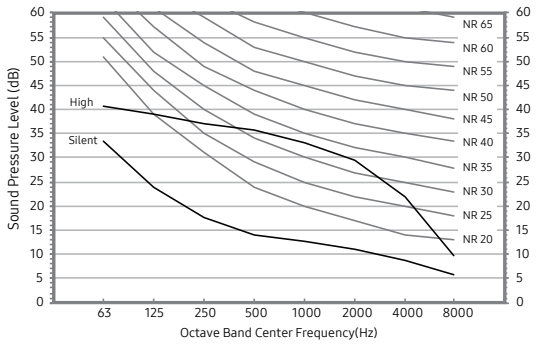
Model	Cooling	
	High	Silent
AR09TXFYAWKNEU	37	19
AR12TXFYAWKNEU	38	19
AR18TXFYAWKNEU	41	25
AR24TXFYAWKNEU	45	26

- NR Curve

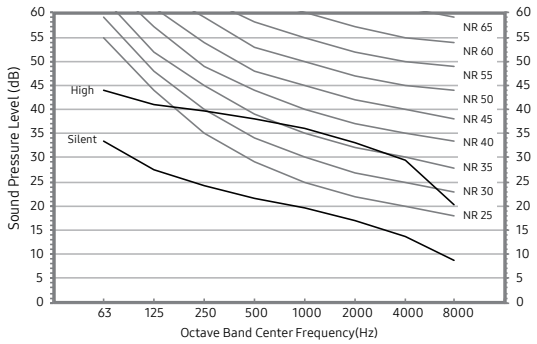
1) AR09TXFYAWKNEU



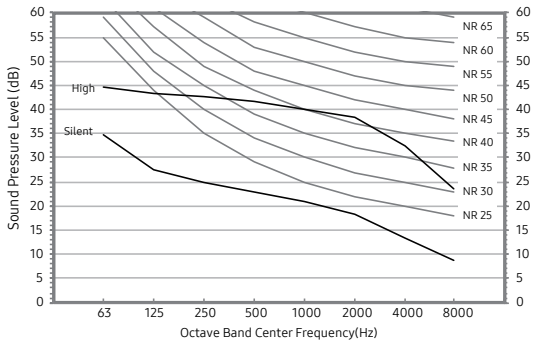
2) AR12TXFYAWKNEU



3) AR18TXFYAWKNEU



4) AR24TXFYAWKNEU



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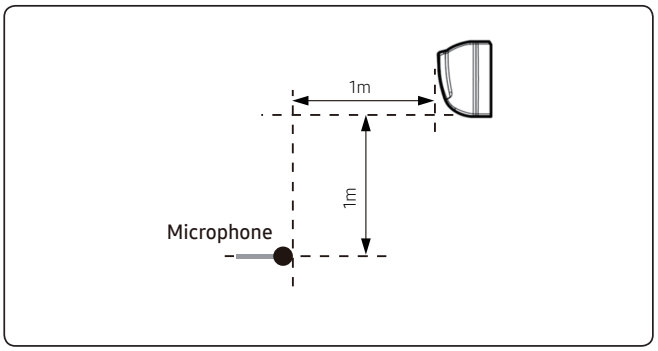
  - Reference acoustic pressure 0 dB = 20μPa

6. Sound Data

Indoor units : AR9500

Sound Pressure level

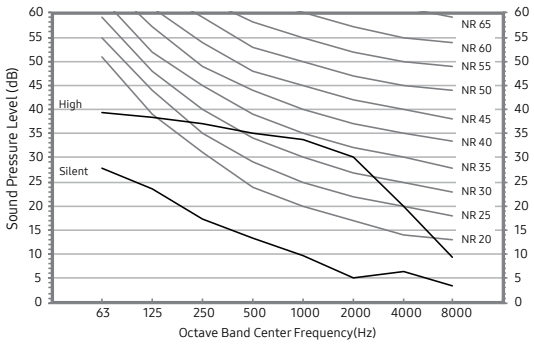


Unit: dB(A)

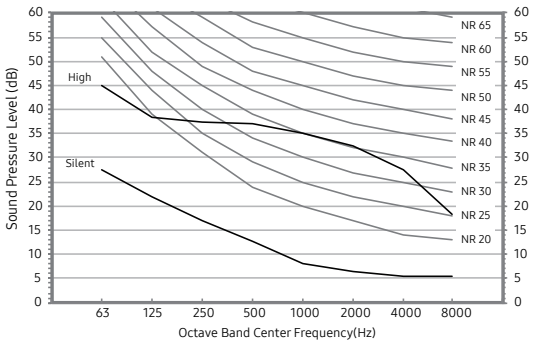
Model	Cooling	
	High	Silent
AR09TXEAAWKNEU	38	16
AR12TXEAAWKNEU	40	16
AR18TXEAAWKNEU	41	25
AR24TXEAAWKNEU	45	27

- NR Curve

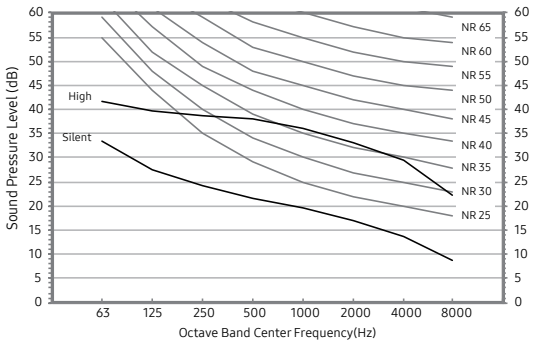
1) AR09TXEAAWKNEU



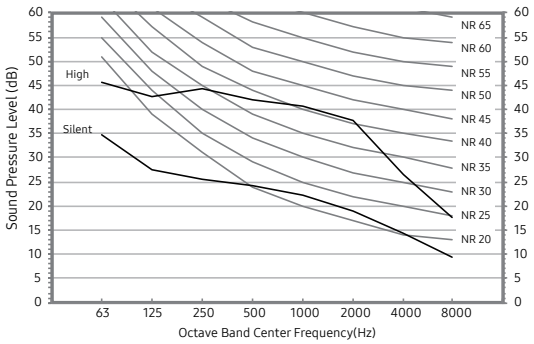
2) AR12TXEAAWKNEU



3) AR18TXEAAWKNEU



4) AR24TXEAAWKNEU



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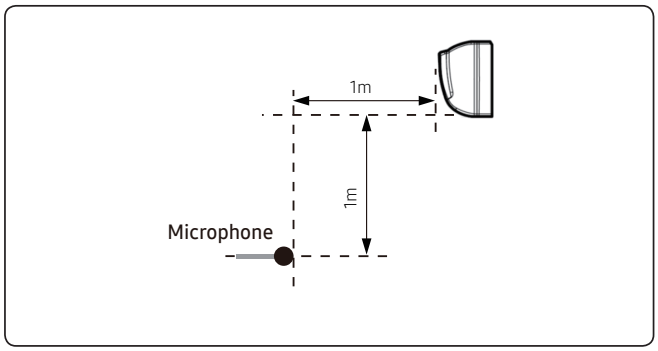
  - Reference acoustic pressure 0 dB = 20μPa

6. Sound Data

Indoor units : AR9500

Sound Pressure level

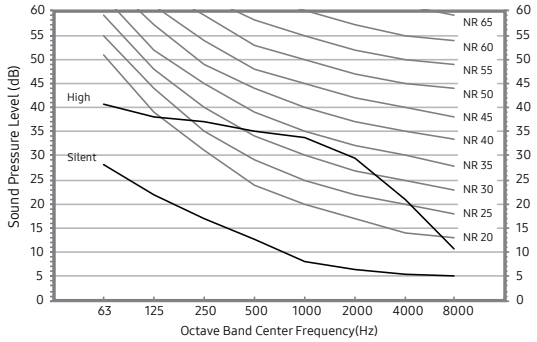


Unit: dB(A)

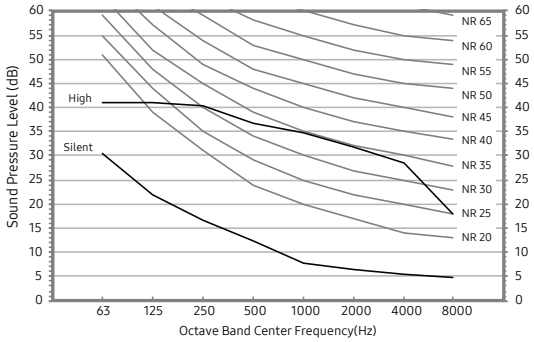
Model	Cooling	
	High	Silent
AR09TXCAAWKNEU	38	16
AR12TXCAAWKNEU	40	16

- NR Curve

1) AR09TXCAAWKNEU



2) AR12TXCAAWKNEU



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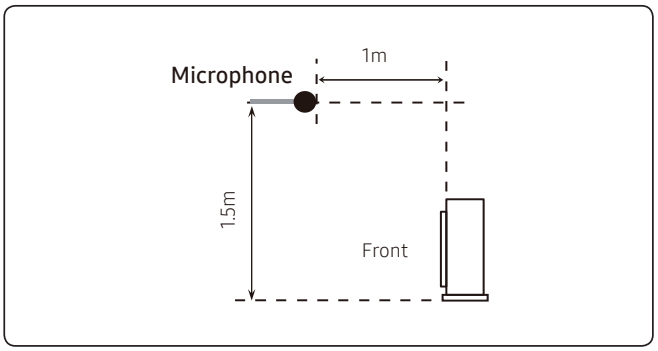
6. Sound Data

Outdoor units

Sound Pressure level

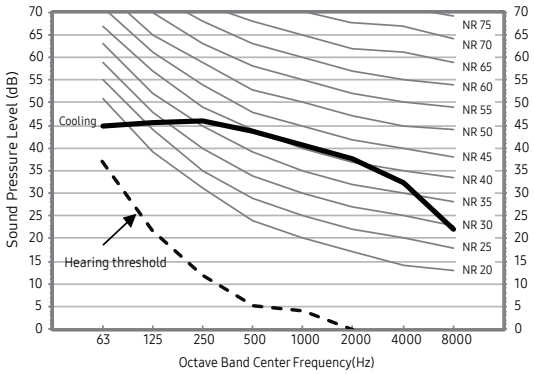


Unit: dB(A)

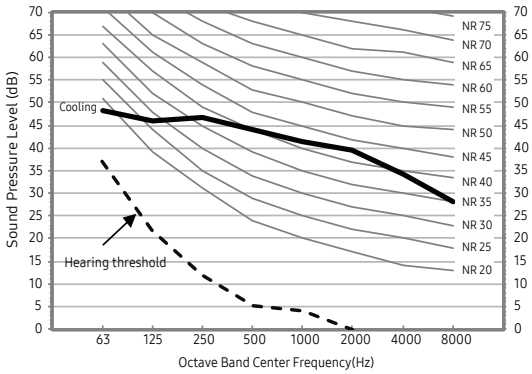
Model	Cooling
AR09TXHZAWKXEU	46
AR12TXHZAWKXEU	47
AR18TXHZAWKXEU	57
AR24TXHZAWKXEU	60

- NR Curve

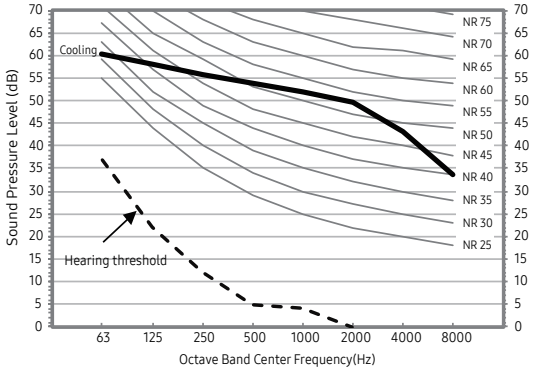
1) AR09TXHZAWKXEU



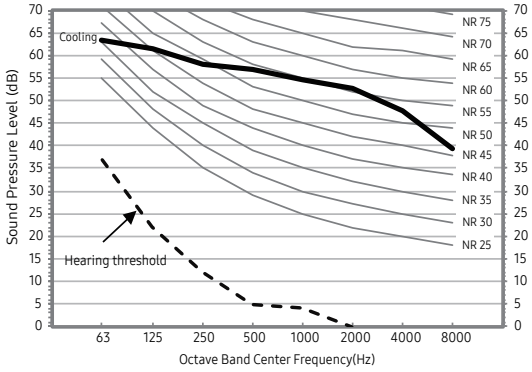
2) AR12TXHZAWKXEU



3) AR18TXHZAWKXEU



4) AR24TXHZAWKXEU



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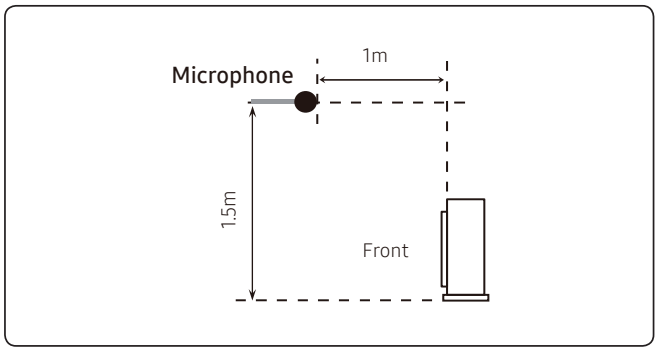
  - Reference acoustic pressure 0 dB = 20μPa

6. Sound Data

Outdoor units

Sound Pressure level

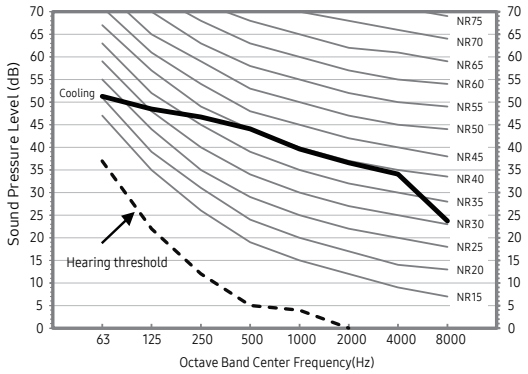


Unit: dB(A)

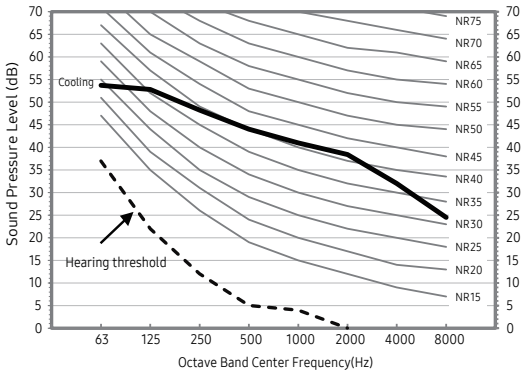
Model	Cooling
AR09TXFCAWKXEU	46
AR12TXFCAWKXEU	47
AR18TXFCAWKXEU	57
AR24TXFCAWKXEU	60

- NR Curve

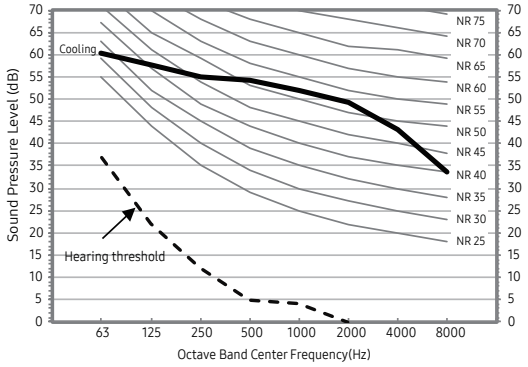
1) AR09TXFCAWKXEU



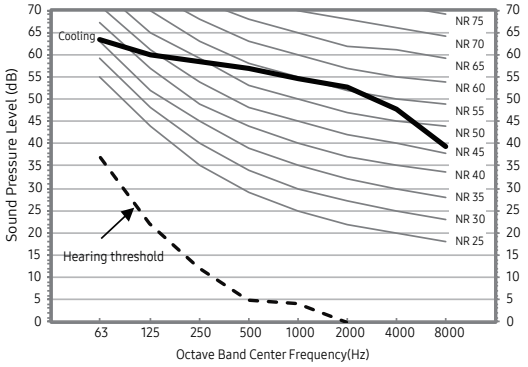
2) AR12TXFCAWKXEU



3) AR18TXFCAWKXEU



4) AR24TXFCAWKXEU



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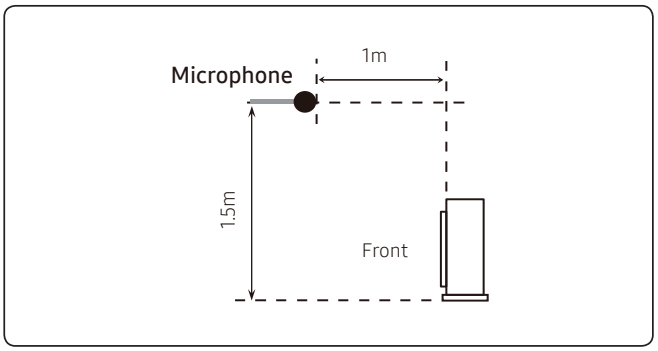
6. Sound Data

Outdoor units

Sound Pressure level

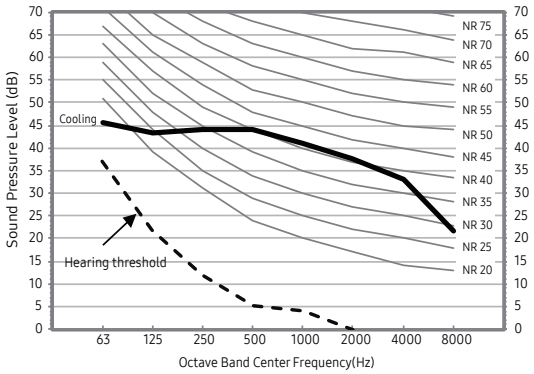


Unit: dB(A)

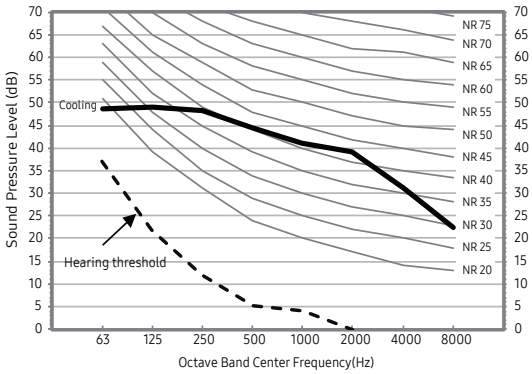
Model	Cooling
AR09TXFYAWKXEU	46
AR12TXFYAWKXEU	47
AR18TXFYAWKXEU	57
AR24TXFYAWKXEU	60

- NR Curve

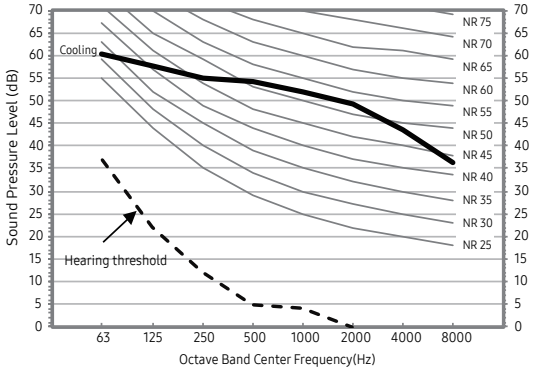
1) AR09TXFYAWKXEU



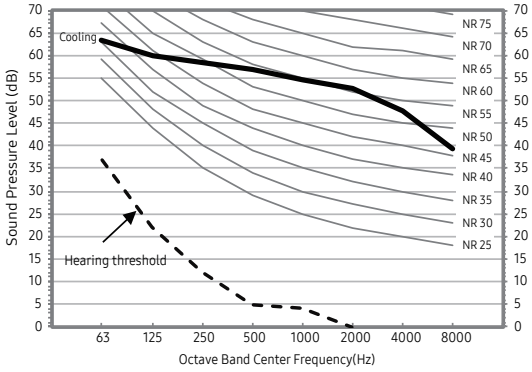
2) AR12TXFYAWKXEU



3) AR18TXFYAWKXEU



4) AR24TXFYAWKXEU



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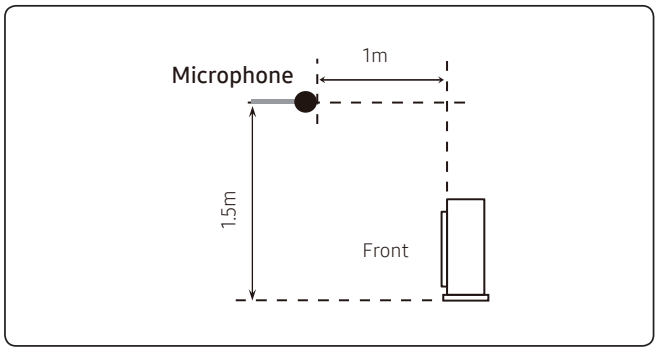
  - Reference acoustic pressure 0 dB = 20μPa

6. Sound Data

Outdoor units

Sound Pressure level

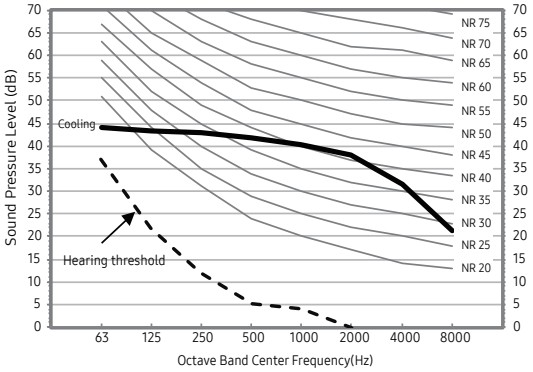


Unit: dB(A)

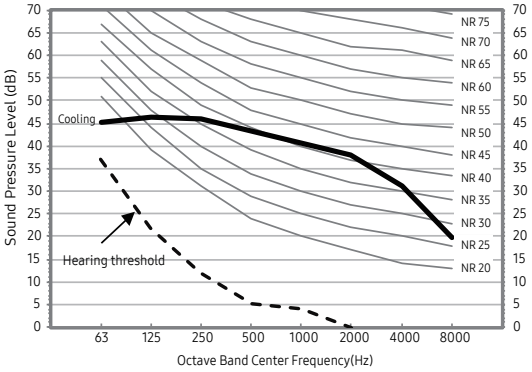
Model	Cooling
AR09TXEAAWKXEU	45
AR12TXEAAWKXEU	46
AR18TXEAAWKXEU	57
AR24TXEAAWKXEU	54

- NR Curve

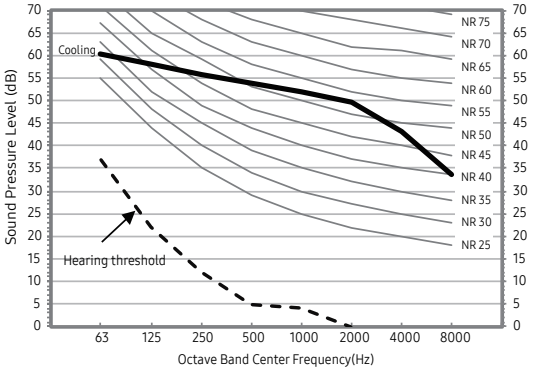
1) AR09TXEAAWKXEU



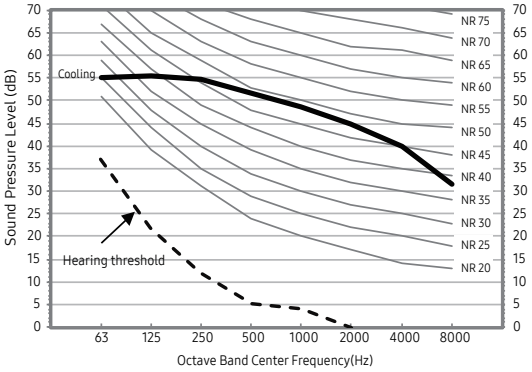
2) AR12TXEAAWKXEU



3) AR18TXEAAWKXEU



4) AR24TXEAAWKXEU



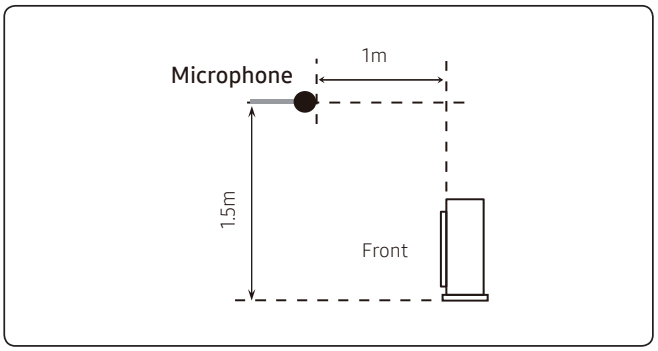
NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

6. Sound Data

Outdoor units

Sound Pressure level

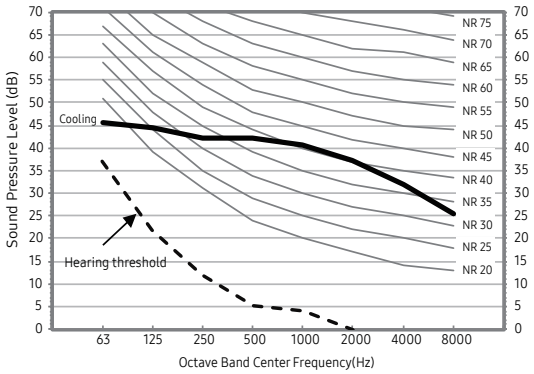


Unit: dB(A)

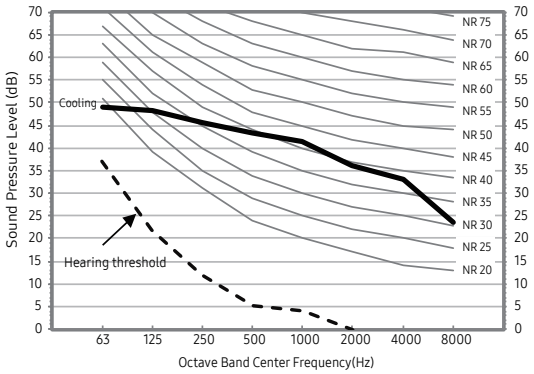
Model	Cooling
AR09TXCAAWKXEU	45
AR12TXCAAWKXEU	46

- NR Curve

1) AR09TXCAAWKXEU



2) AR12TXCAAWKXEU



NOTE

- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation condition.
  - dBA = A weighted sound pressure level
  - Reference acoustic pressure 0 dB = 20μPa

6. Sound Data

Indoor units : AR4500

Sound Power level

Unit: dB(A)

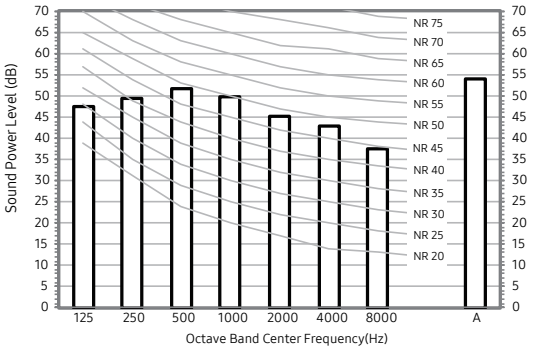
Model	Cooling
AR09TXHZAWKNEU	54
AR12TXHZAWKNEU	56
AR18TXHZAWKNEU	58
AR24TXHZAWKNEU	62

NOTE

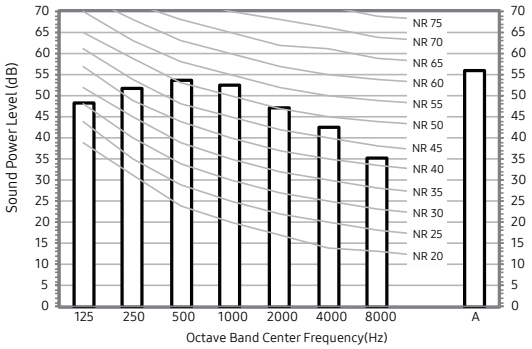
- Specifications may be subject to change without prior notice.
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

- NR Curve

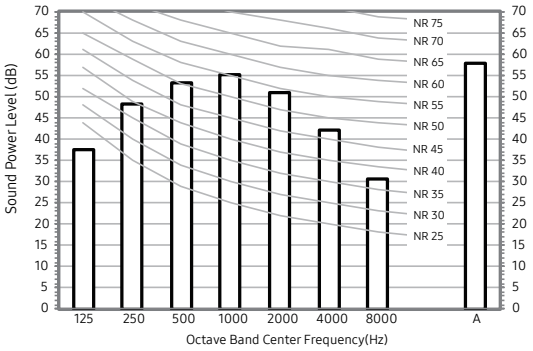
1) AR09TXHZAWKNEU



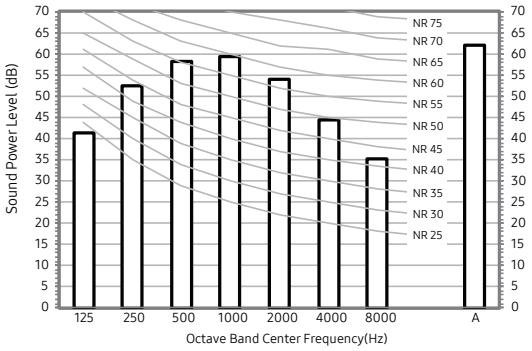
2) AR12TXHZAWKNEU



3) AR18TXHZAWKNEU



4) AR24TXHZAWKNEU



6. Sound Data

Indoor units : AR7500

Sound Power level

Unit: dB(A)

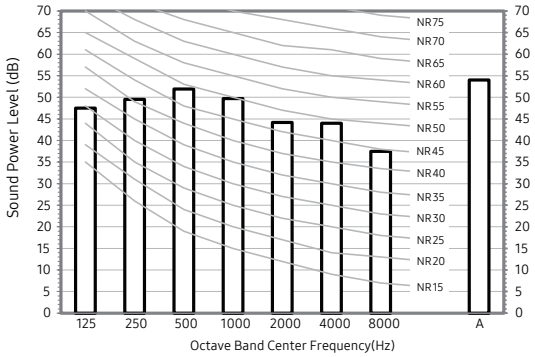
Model	Cooling
AR09TXFCAWKNEU	54
AR12TXFCAWKNEU	56
AR18TXFCAWKNEU	58
AR24TXFCAWKNEU	62

NOTE

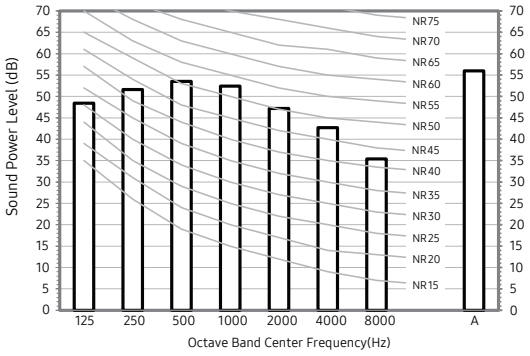
- Specifications may be subject to change without prior notice.
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

- NR Curve

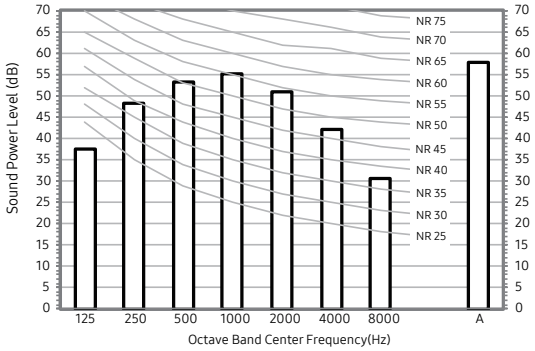
1) AR09TXFCAWKNEU



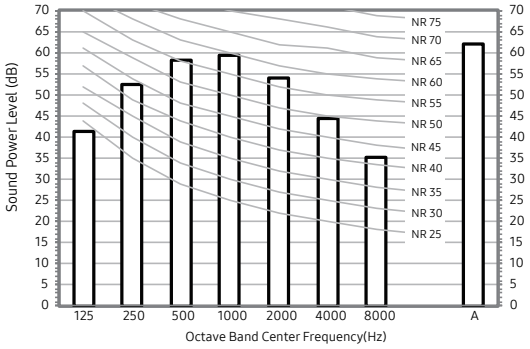
2) AR12TXFCAWKNEU



3) AR18TXFCAWKNEU



4) AR24TXFCAWKNEU



6. Sound Data

Indoor units : AR5500

Sound Power level

Unit: dB(A)

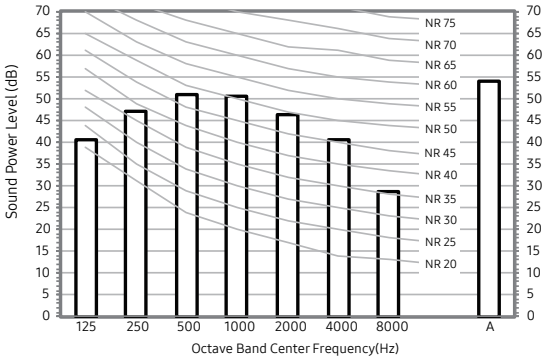
Model	Cooling
AR09TXFYAWKNEU	54
AR12TXFYAWKNEU	56
AR18TXFYAWKNEU	58
AR24TXFYAWKNEU	62

NOTE

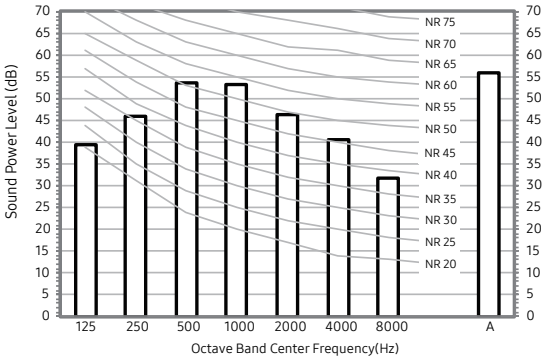
- Specifications may be subject to change without prior notice.
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

- NR Curve

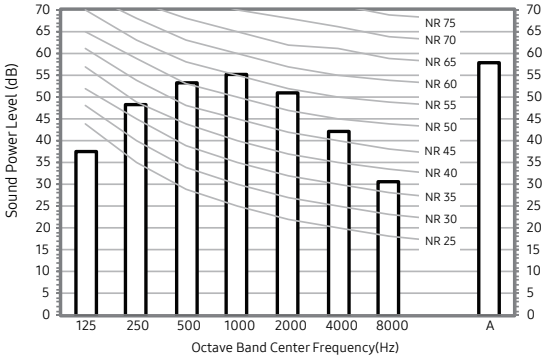
1) AR09TXFYAWKNEU



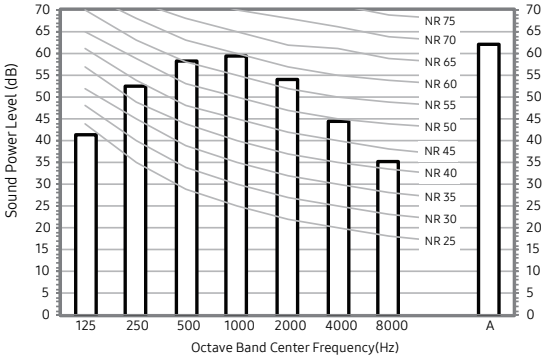
2) AR12TXFYAWKNEU



3) AR18TXFYAWKNEU



4) AR24TXFYAWKNEU



6. Sound Data

Indoor units : AR9500

Sound Power level

Unit: dB(A)

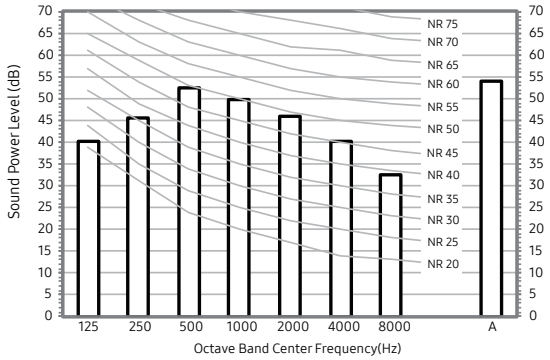
Model	Cooling
AR09TXEAAWKNEU	54
AR12TXEAAWKNEU	57
AR18TXEAAWKNEU	58
AR24TXEAAWKNEU	62

NOTE

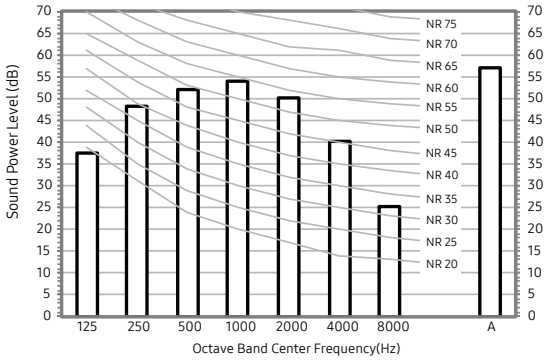
- Specifications may be subject to change without prior notice.
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

- NR Curve

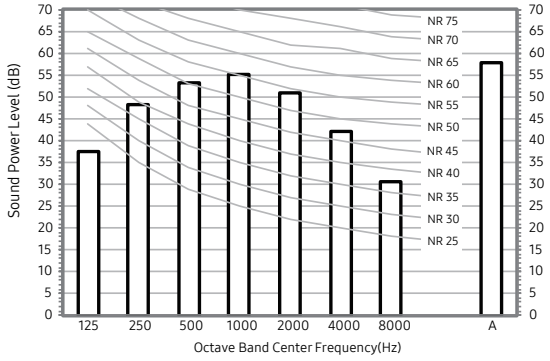
1) AR09TXEAAWKNEU



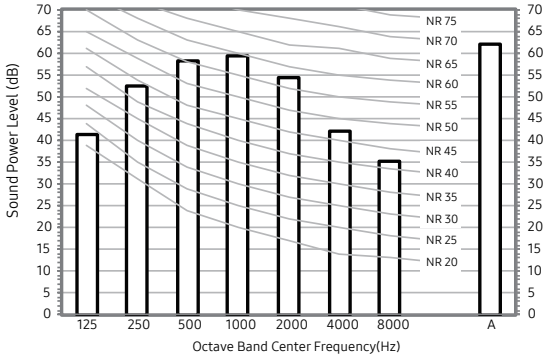
2) AR12TXEAAWKNEU



3) AR18TXEAAWKNEU



4) AR24TXEAAWKNEU



6. Sound Data

Indoor units : AR9500

Sound Power level

Unit: dB(A)

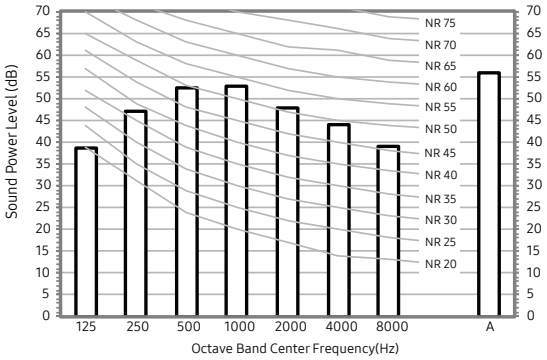
Model	Cooling
AR09TXCAAWKNEU	56
AR12TXCAAWKNEU	58

NOTE

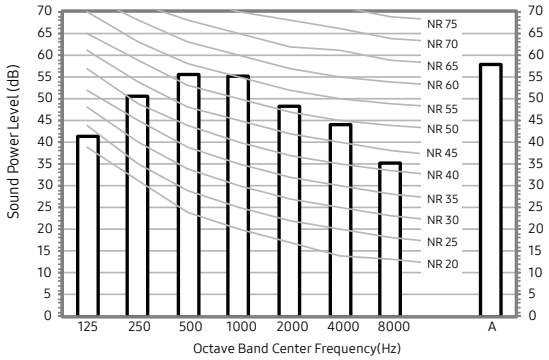
- Specifications may be subject to change without prior notice.
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

- NR Curve

1) AR09TXCAAWKNEU



2) AR12TXCAAWKNEU



6. Sound Data

Outdoor units

Sound Power level

Unit: dB(A)

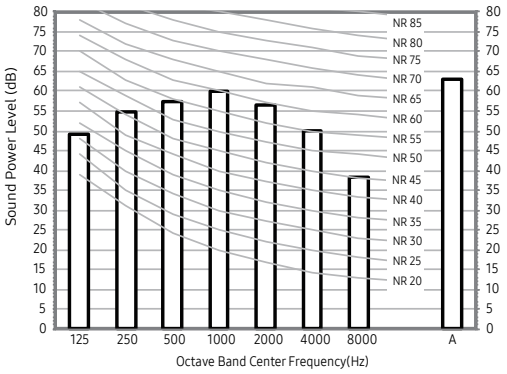
Model	Cooling
AR09TXHZAWKXEU	63
AR12TXHZAWKXEU	64
AR18TXHZAWKXEU	65
AR24TXHZAWKXEU	68

NOTE

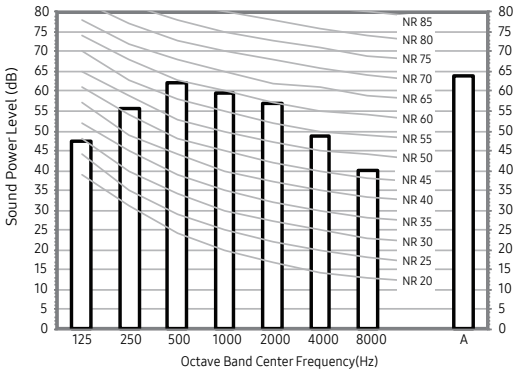
- Specifications may be subject to change without prior notice.
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

- NR Curve

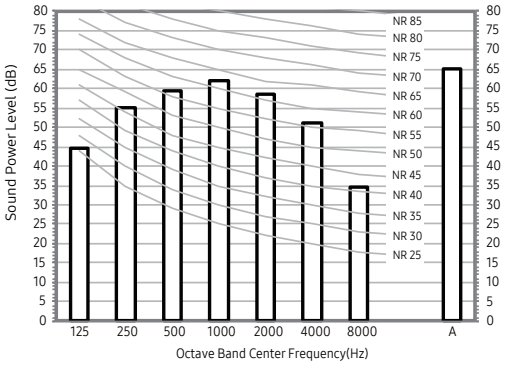
1) AR09TXHZAWKXEU



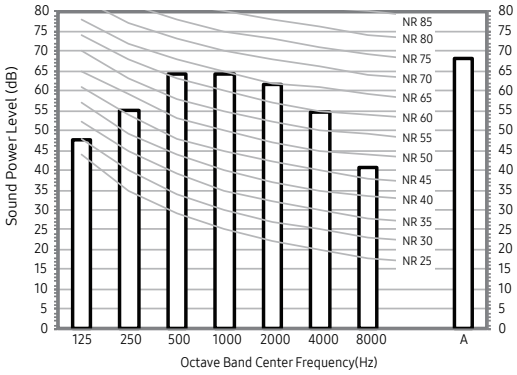
2) AR12TXHZAWKXEU



3) AR18TXHZAWKXEU



4) AR24TXHZAWKXEU



6. Sound Data

Outdoor units

Sound Power level

Unit: dB(A)

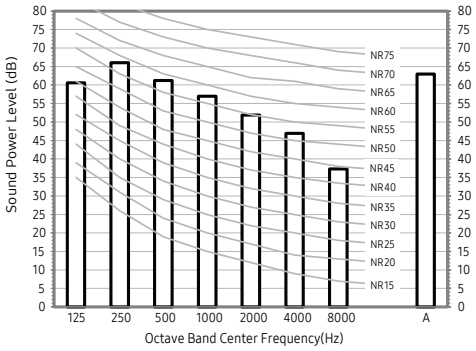
Model	Cooling
AR09TXFCAWKXEU	63
AR12TXFCAWKXEU	64
AR18TXFCAWKXEU	65
AR24TXFCAWKXEU	68

NOTE

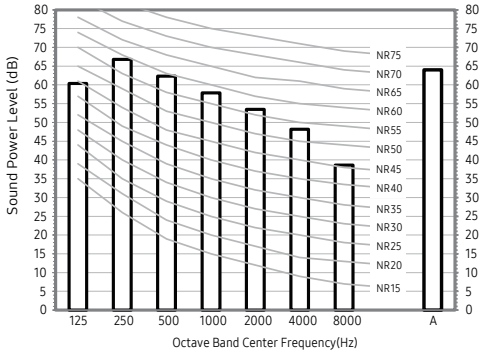
- Specifications may be subject to change without prior notice.
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

- NR Curve

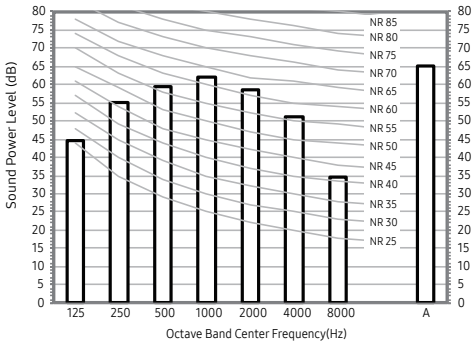
1) AR09TXFCAWKXEU



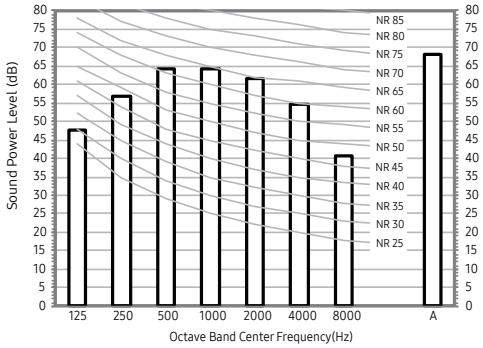
2) AR12TXFCAWKXEU



3) AR18TXFCAWKXEU



4) AR24TXFCAWKXEU



6. Sound Data

Outdoor units

Sound Power level

Unit: dB(A)

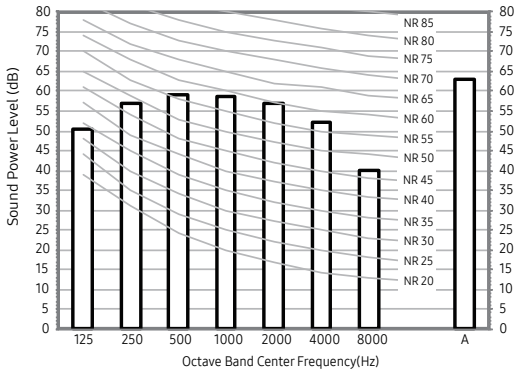
Model	Cooling
AR09TXFYAWKXEU	63
AR12TXFYAWKXEU	64
AR18TXFYAWKXEU	65
AR24TXFYAWKXEU	68

NOTE

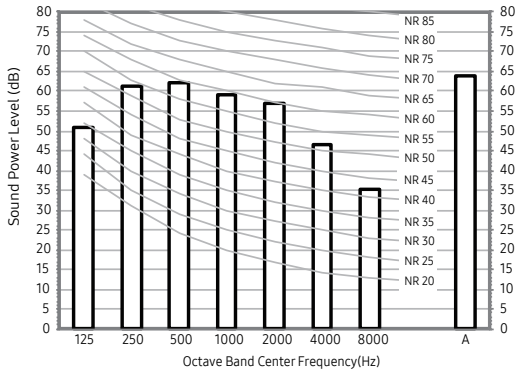
- Specifications may be subject to change without prior notice.
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

- NR Curve

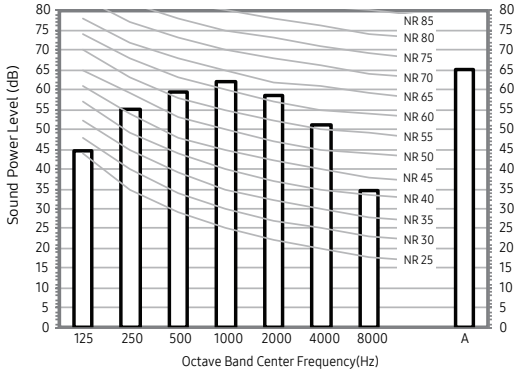
1) AR09TXFYAWKXEU



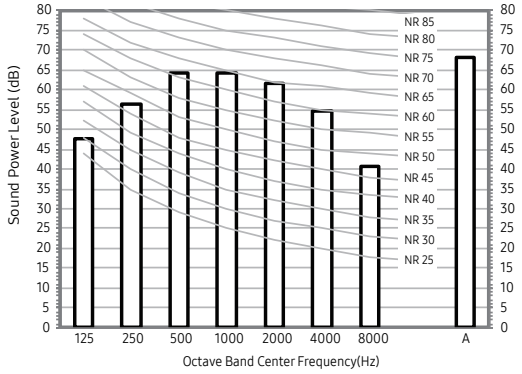
2) AR12TXFYAWKXEU



3) AR18TXFYAWKXEU



4) AR24TXFYAWKXEU



6. Sound Data

Outdoor units

Sound Power level

Unit: dB(A)

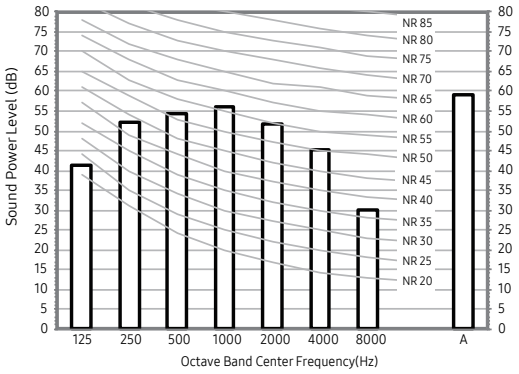
Model	Cooling
AR09TXEAAWKXEU	59
AR12TXEAAWKXEU	62
AR18TXEAAWKXEU	65
AR24TXEAAWKXEU	68

NOTE

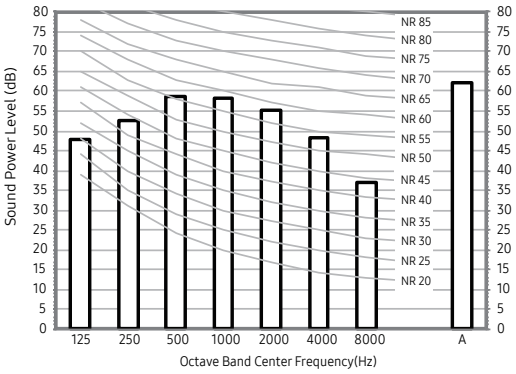
- Specifications may be subject to change without prior notice.
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

- NR Curve

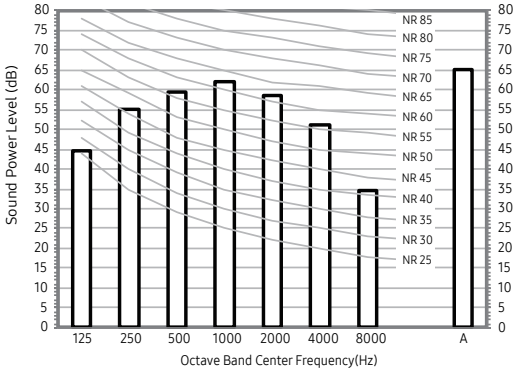
1) AR09TXEAAWKXEU



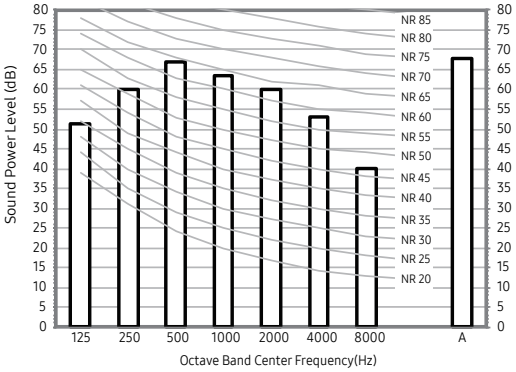
2) AR12TXEAAWKXEU



3) AR12TXEAAWKXEU



4) AR24TXEAAWKXEU



6. Sound Data

Outdoor units

Sound Power level

Unit: dB(A)

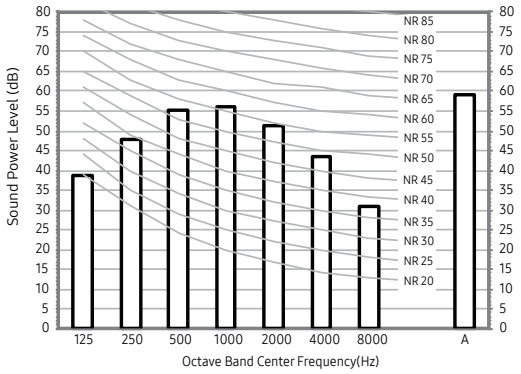
Model	Cooling
AR09TXCAAWKXEU	59
AR12TXCAAWKXEU	62

NOTE

- Specifications may be subject to change without prior notice.
  - Sound power level is an absolute value that a sound source generates.
  - dBA = A-weighted sound power level.
  - Reference power : 1pW.
  - Measured according to ISO 3741.

- NR Curve

1) AR09TXCAAWKXEU



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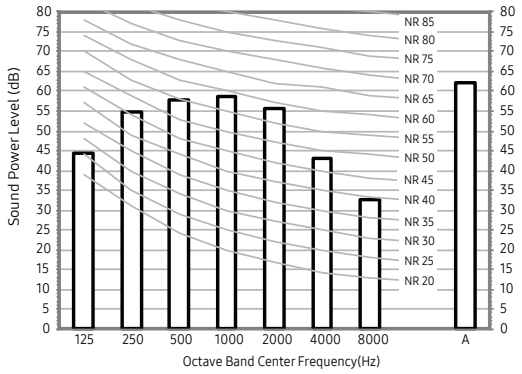


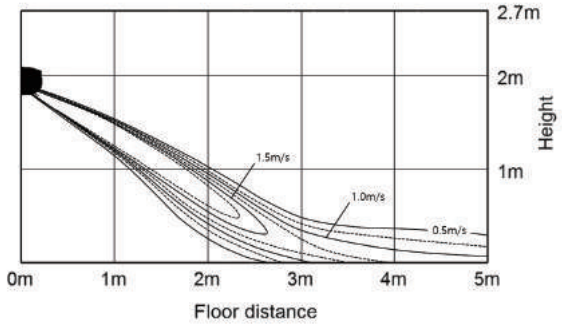
7. Temperature and air flow distribution

AR4500

AR09TXHZAWKNEU

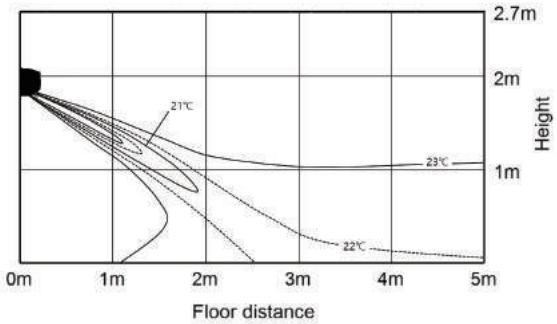
- Cooling air velocity distribution

(Discharge angle : 20 degree)



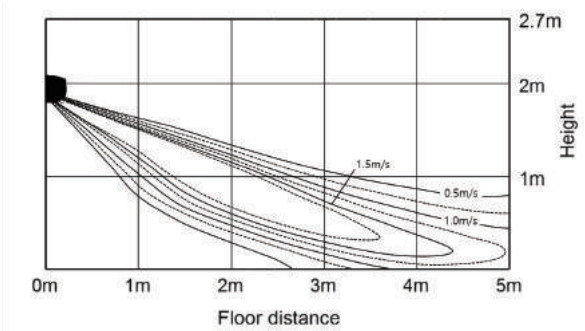
- Cooling Temperature distribution

(Discharge angle : 20 degree)



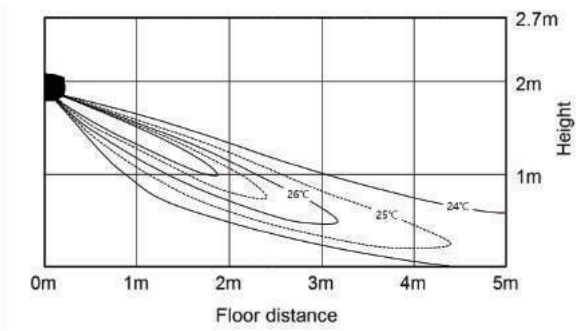
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

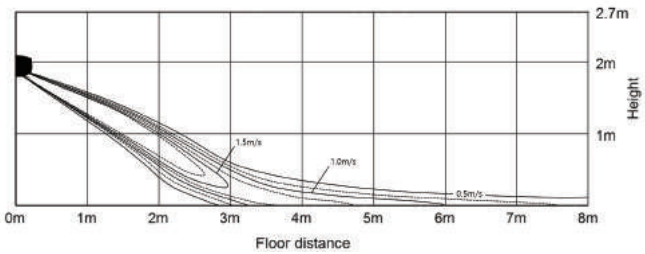
(Discharge angle : 30 degree)



AR12TXHZAWKNEU

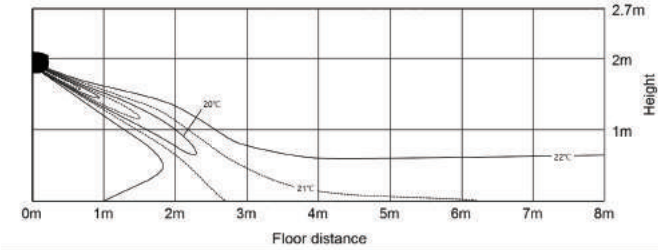
- Cooling air velocity distribution

(Discharge angle : 20 degree)



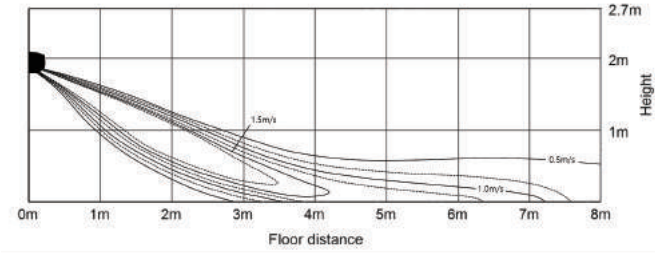
- Cooling Temperature distribution

(Discharge angle : 20 degree)



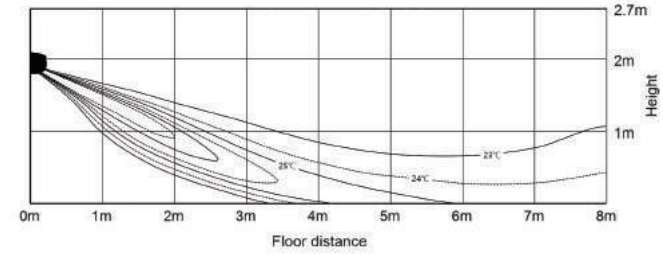
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

(Discharge angle : 30 degree)



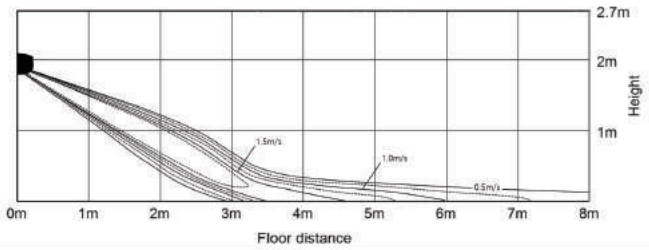
7. Temperature and air flow distribution

AR4500

AR18TXHZAWKNEU

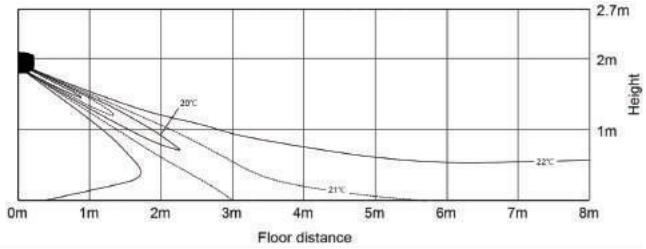
- Cooling air velocity distribution

(Discharge angle : 20 degree)



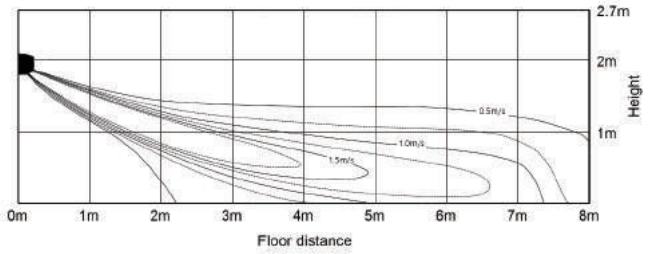
- Cooling Temperature distribution

(Discharge angle : 20 degree)



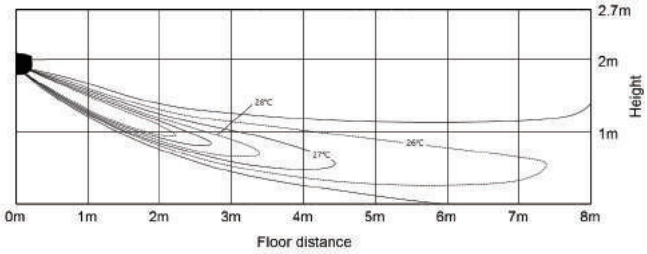
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

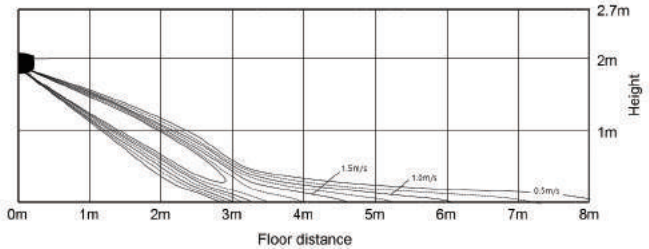
(Discharge angle : 30 degree)



AR24TXHZAWKNEU

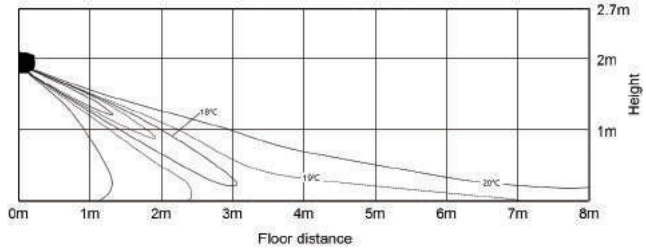
- Cooling air velocity distribution

(Discharge angle : 20 degree)



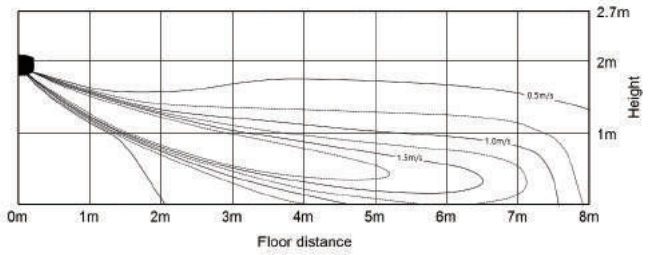
- Cooling Temperature distribution

(Discharge angle : 20 degree)



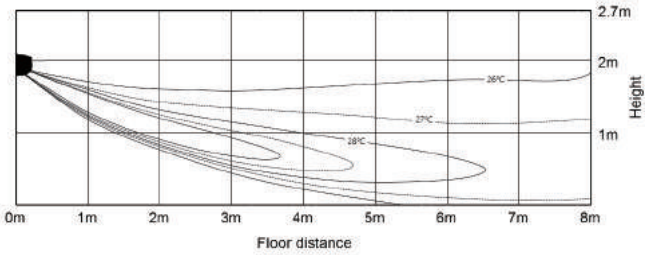
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

(Discharge angle : 30 degree)



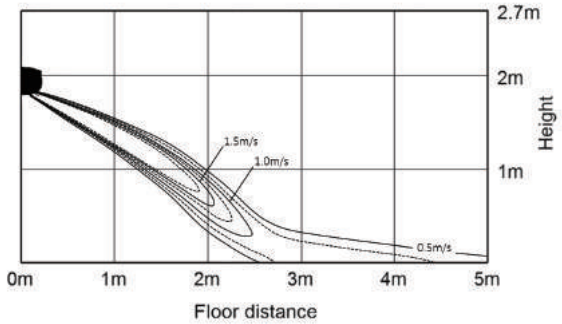
7. Temperature and air flow distribution

AR7500

AR09TXFCAWKNEU

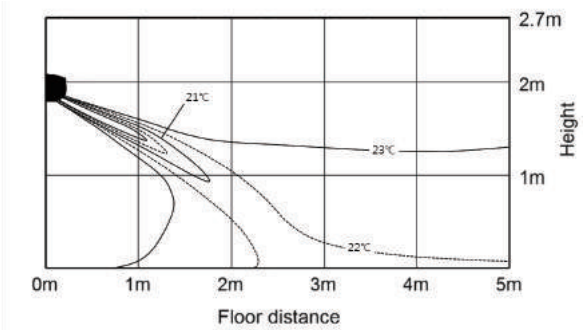
- Cooling air velocity distribution

(Discharge angle : 20 degree)



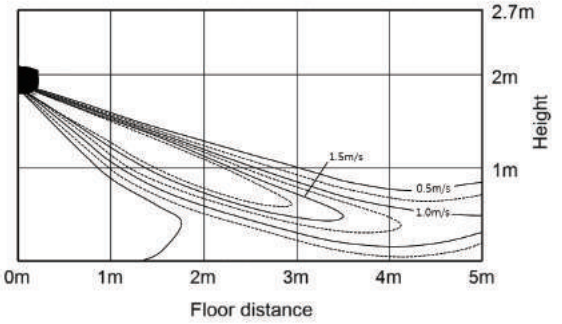
- Cooling Temperature distribution

(Discharge angle : 20 degree)



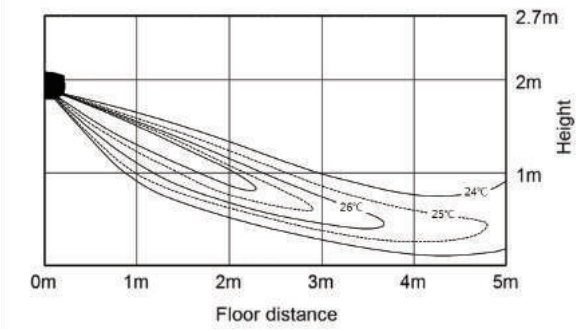
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

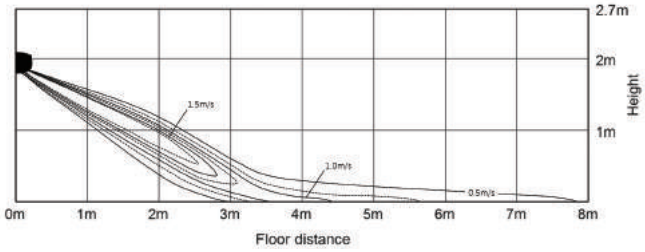
(Discharge angle : 30 degree)



AR12TXFCAWKNEU

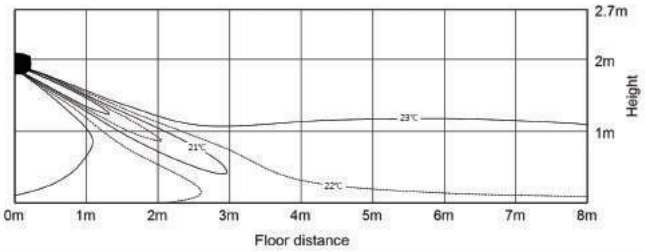
- Cooling air velocity distribution

(Discharge angle : 20 degree)



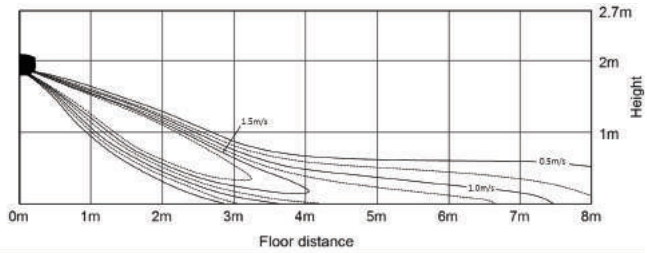
- Cooling Temperature distribution

(Discharge angle : 20 degree)



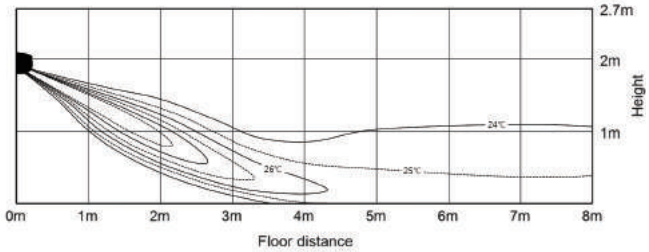
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

(Discharge angle : 30 degree)



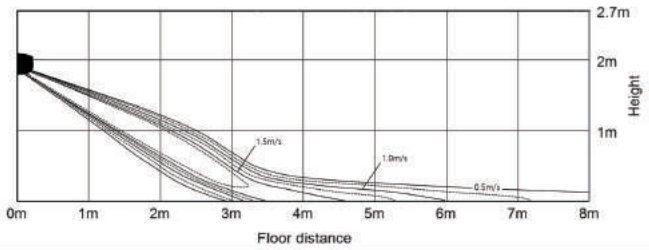
7. Temperature and air flow distribution

AR7500

AR18TXFCAWKNEU

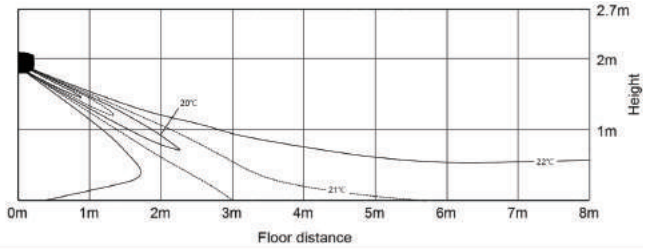
- Cooling air velocity distribution

(Discharge angle : 20 degree)



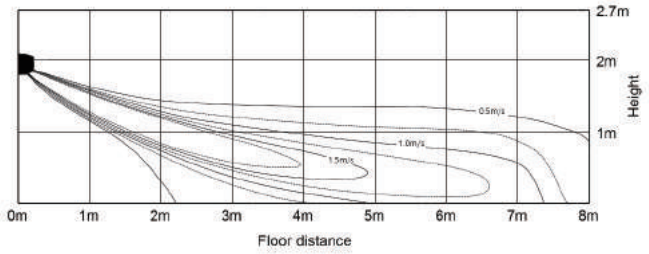
- Cooling Temperature distribution

(Discharge angle : 20 degree)



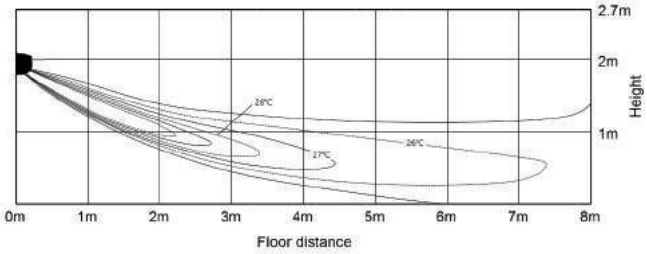
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

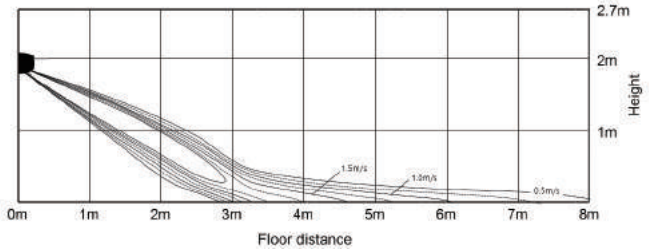
(Discharge angle : 30 degree)



AR24TXFCAWKNEU

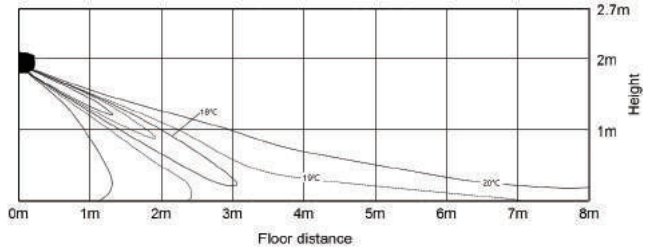
- Cooling air velocity distribution

(Discharge angle : 20 degree)



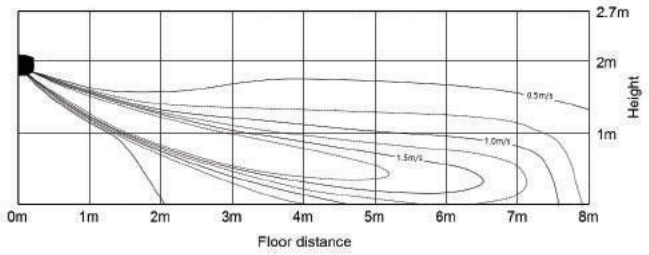
- Cooling Temperature distribution

(Discharge angle : 20 degree)



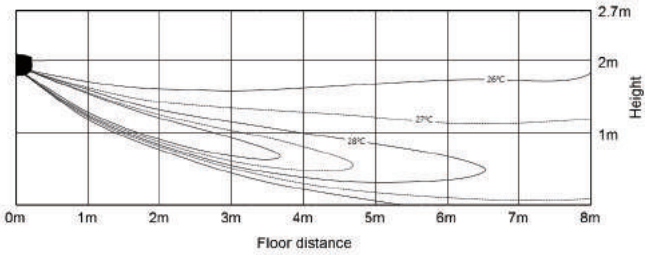
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

(Discharge angle : 30 degree)



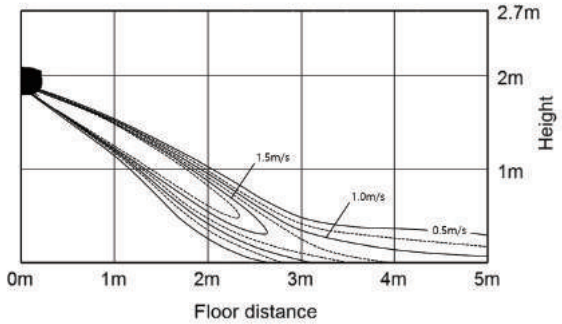
7. Temperature and air flow distribution

AR5500

AR09TXFYAWKNEU

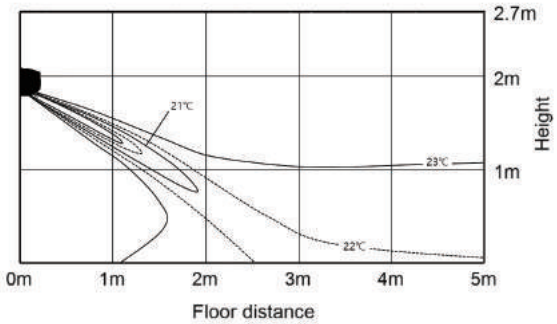
- Cooling air velocity distribution

(Discharge angle : 20 degree)



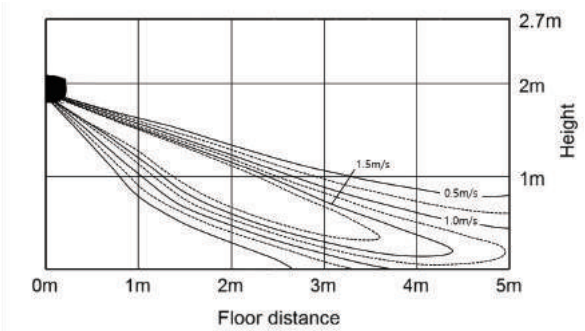
- Cooling Temperature distribution

(Discharge angle : 20 degree)



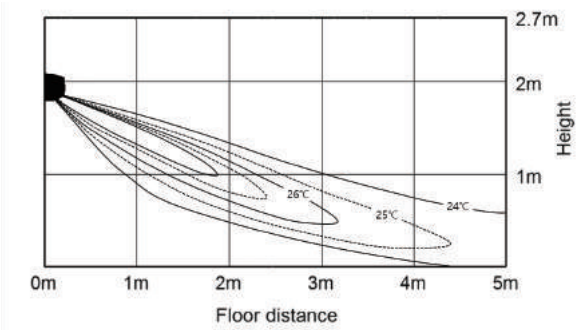
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

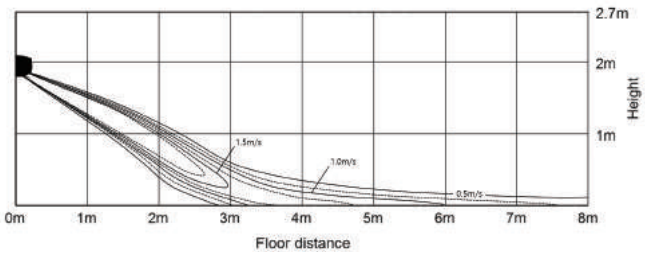
(Discharge angle : 30 degree)



AR12TXFYAWKNEU

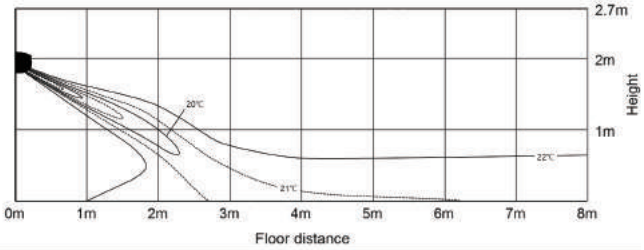
- Cooling air velocity distribution

(Discharge angle : 20 degree)



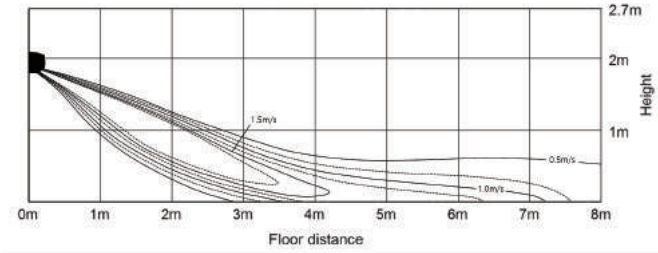
- Cooling Temperature distribution

(Discharge angle : 20 degree)



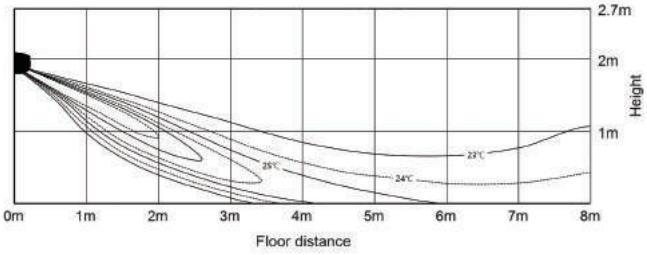
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

(Discharge angle : 30 degree)



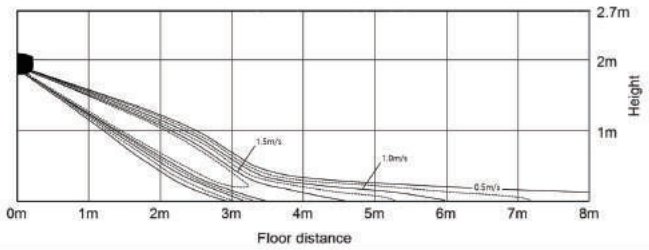
7. Temperature and air flow distribution

AR5500

AR18TXFYAWKNEU

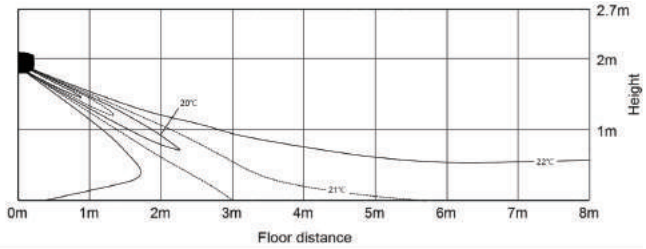
- Cooling air velocity distribution

(Discharge angle : 20 degree)



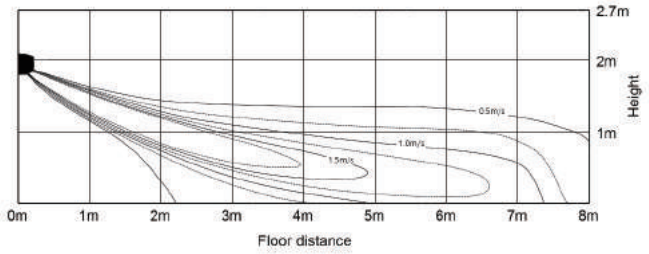
- Cooling Temperature distribution

(Discharge angle : 20 degree)



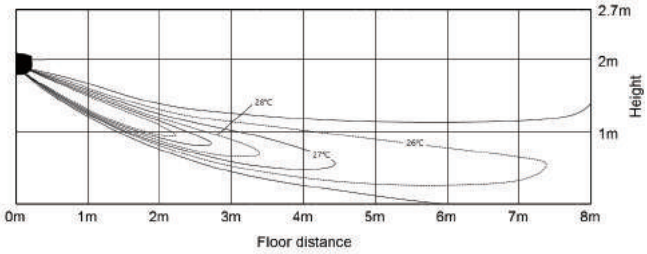
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

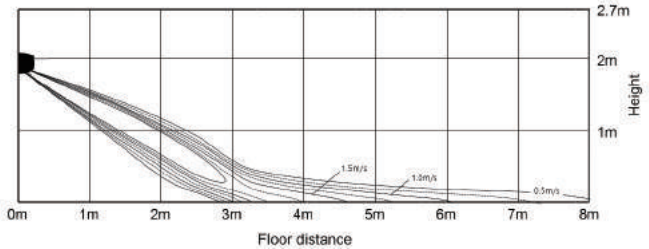
(Discharge angle : 30 degree)



AR24TXFYAWKNEU

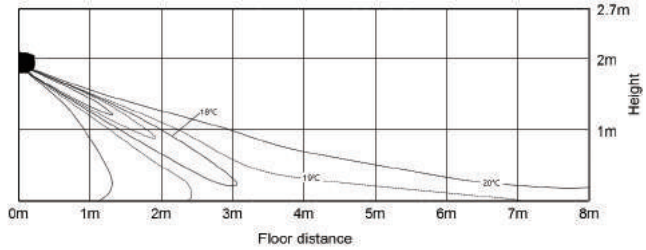
- Cooling air velocity distribution

(Discharge angle : 20 degree)



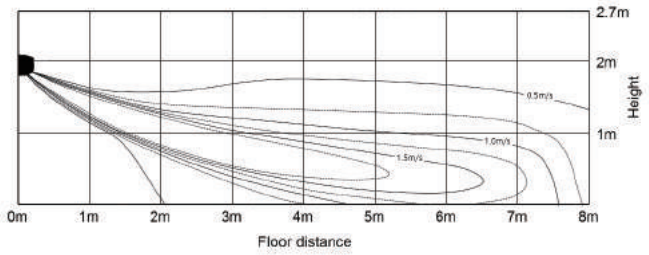
- Cooling Temperature distribution

(Discharge angle : 20 degree)



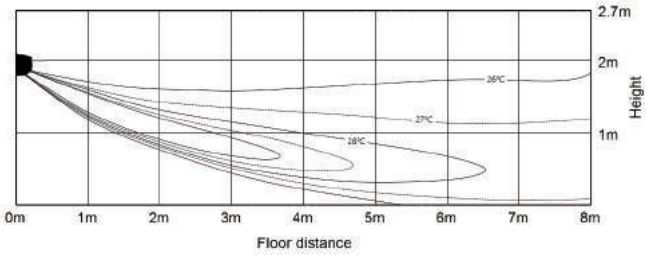
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

(Discharge angle : 30 degree)



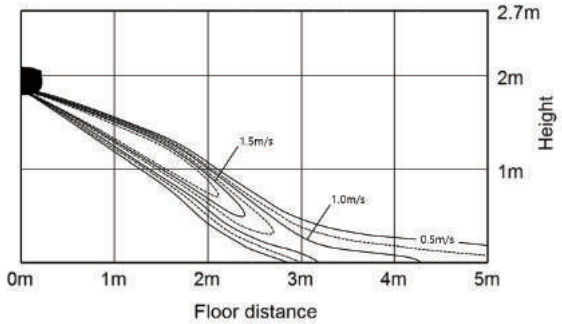
7. Temperature and air flow distribution

AR9500

AR09TXEAAWKNEU

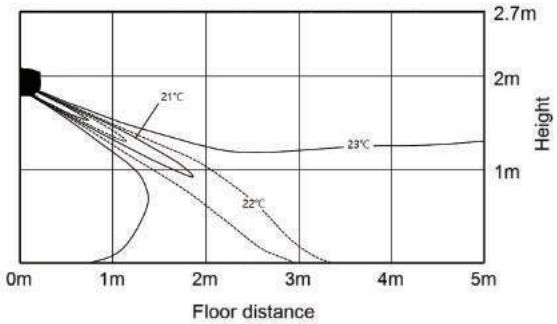
- Cooling air velocity distribution

(Discharge angle : 20 degree)



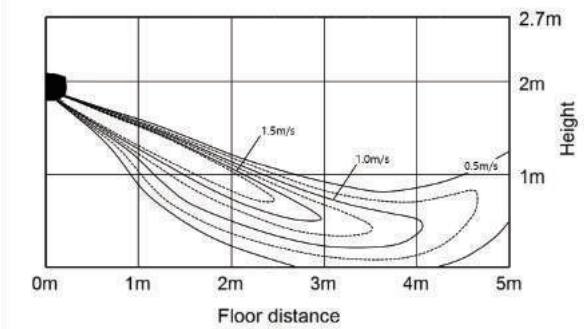
- Cooling Temperature distribution

(Discharge angle : 20 degree)



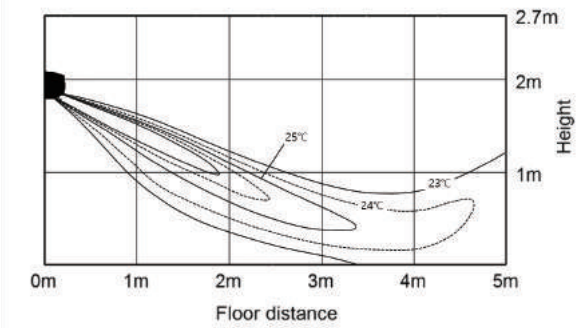
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

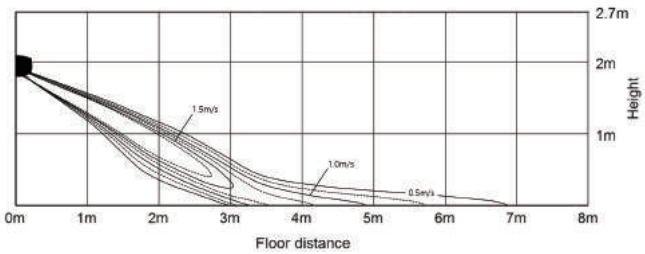
(Discharge angle : 30 degree)



AR12TXEAAWKNEU

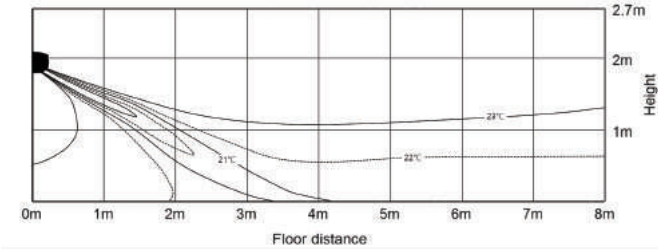
- Cooling air velocity distribution

(Discharge angle : 20 degree)



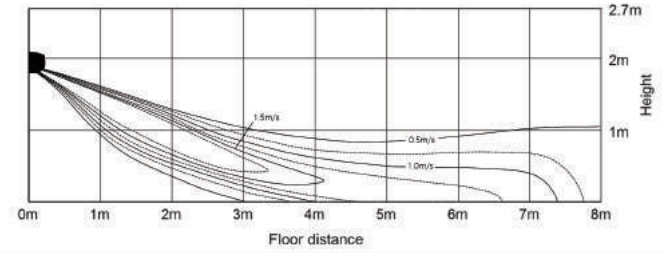
- Cooling Temperature distribution

(Discharge angle : 20 degree)



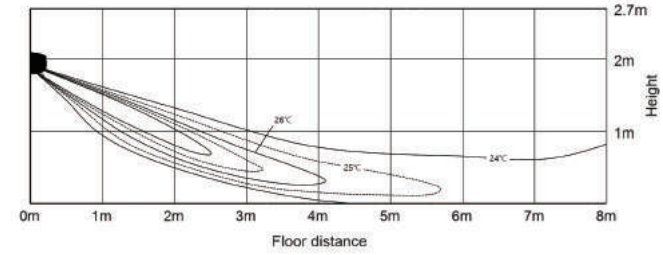
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

(Discharge angle : 30 degree)



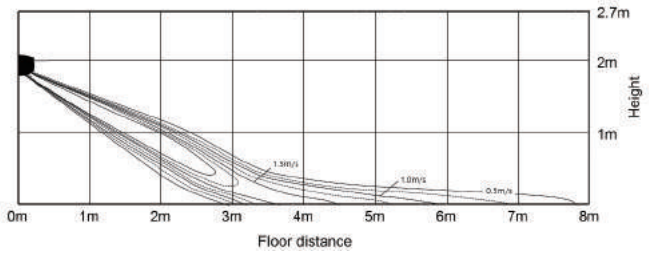
7. Temperature and air flow distribution

AR9500

AR18TXEAAWKNEU

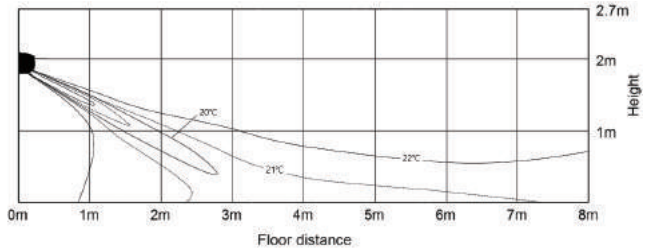
- Cooling air velocity distribution

(Discharge angle : 20 degree)



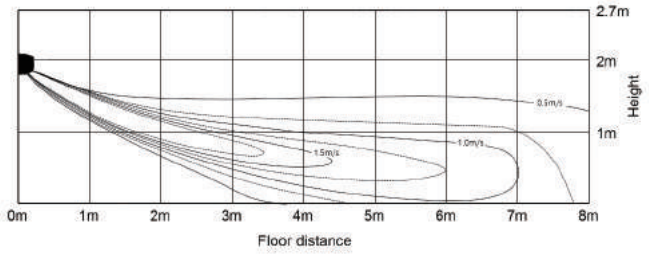
- Cooling Temperature distribution

(Discharge angle : 20 degree)



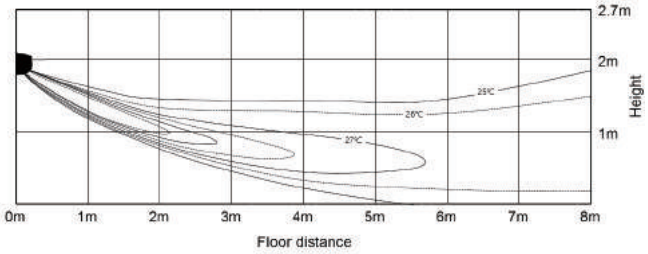
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

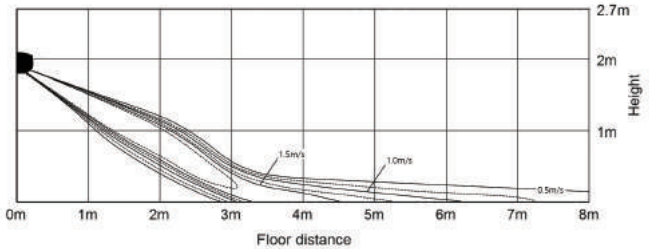
(Discharge angle : 30 degree)



AR24TXEAAWKNEU

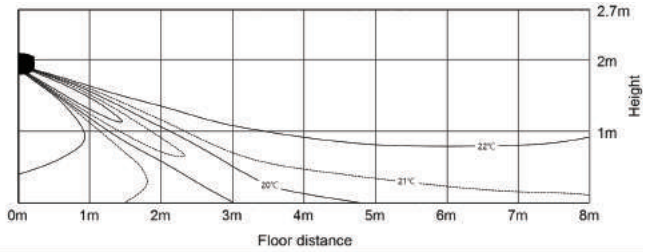
- Cooling air velocity distribution

(Discharge angle : 20 degree)



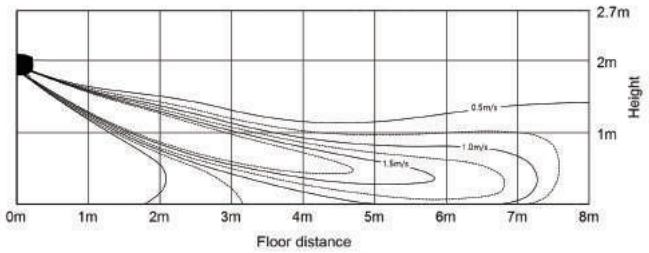
- Cooling Temperature distribution

(Discharge angle : 20 degree)



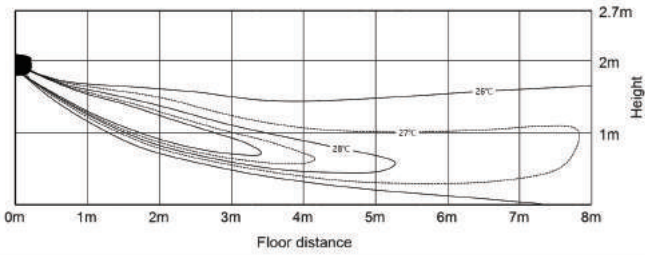
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

(Discharge angle : 30 degree)



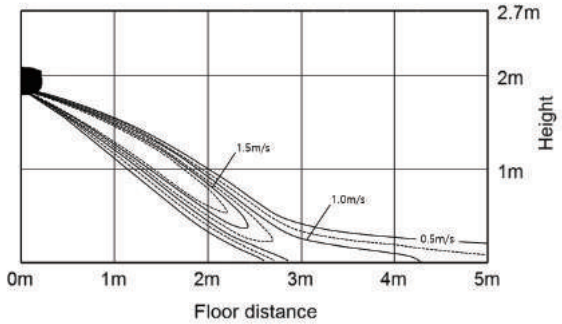
7. Temperature and air flow distribution

AR9500

AR09TXCAAWKNEU

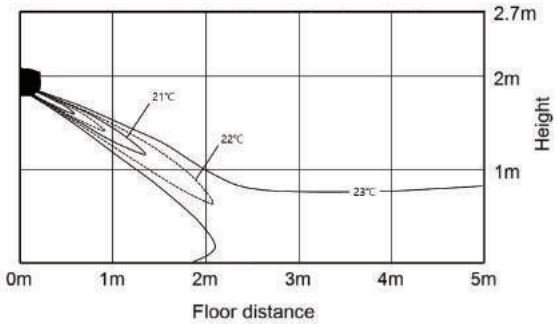
- Cooling air velocity distribution

(Discharge angle : 20 degree)



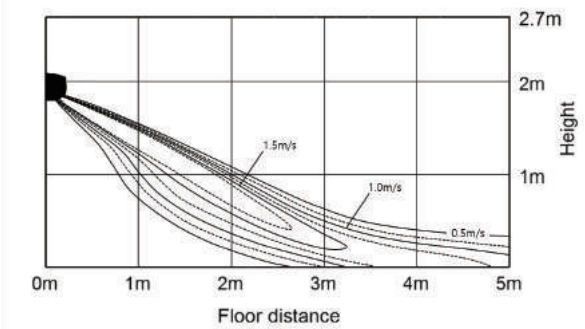
- Cooling Temperature distribution

(Discharge angle : 20 degree)



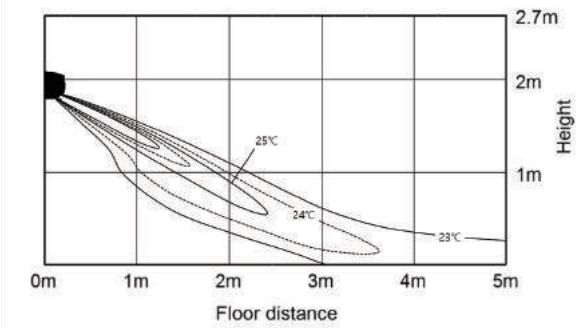
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

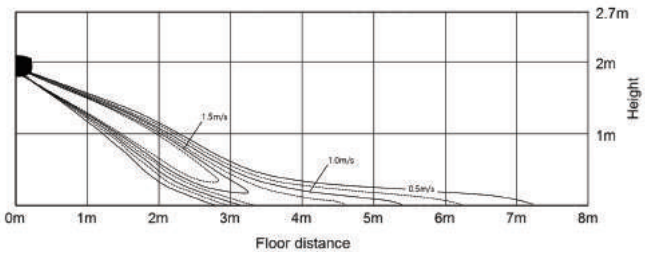
(Discharge angle : 30 degree)



AR12TXCAAWKNEU

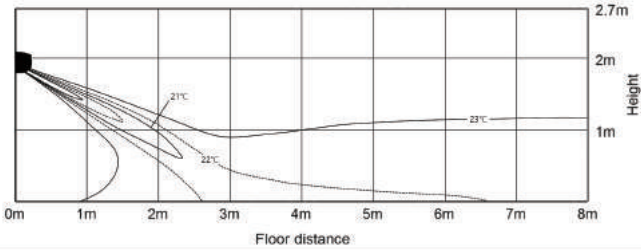
- Cooling air velocity distribution

(Discharge angle : 20 degree)



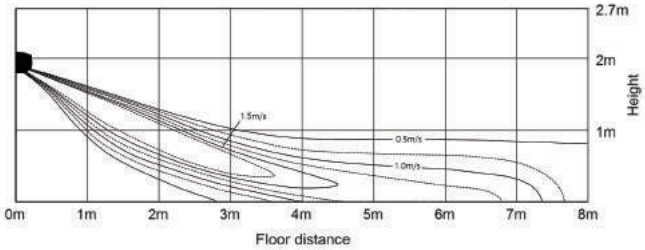
- Cooling Temperature distribution

(Discharge angle : 20 degree)



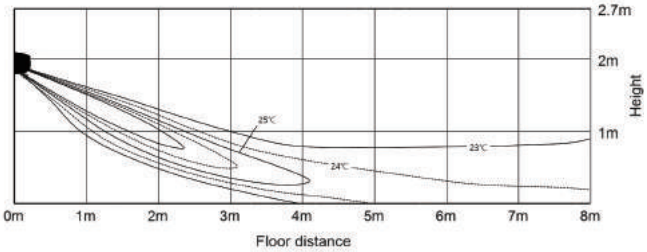
- Heating air velocity distribution

(Discharge angle : 30 degree)

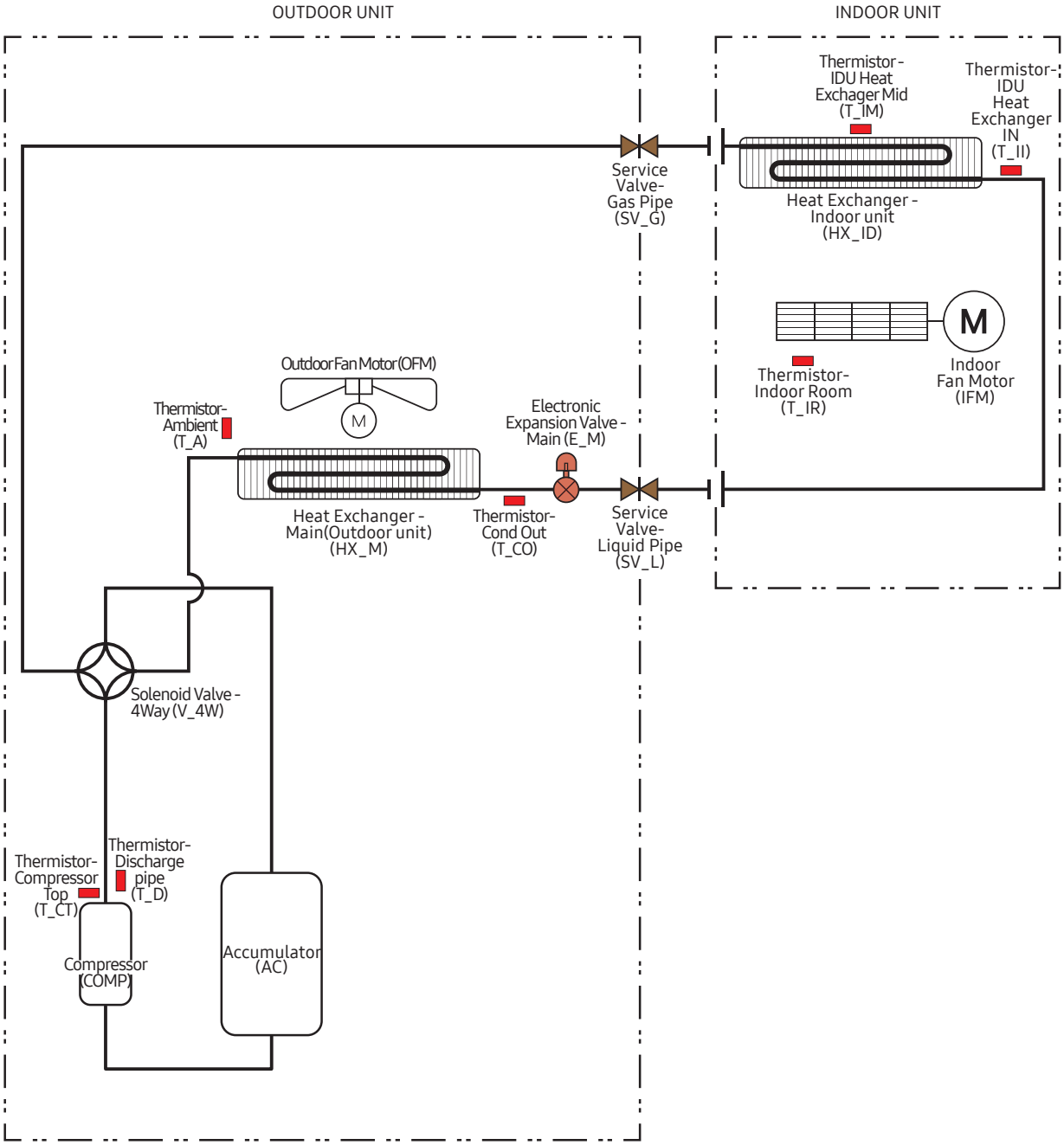


- Heating Temperature distribution

(Discharge angle : 30 degree)

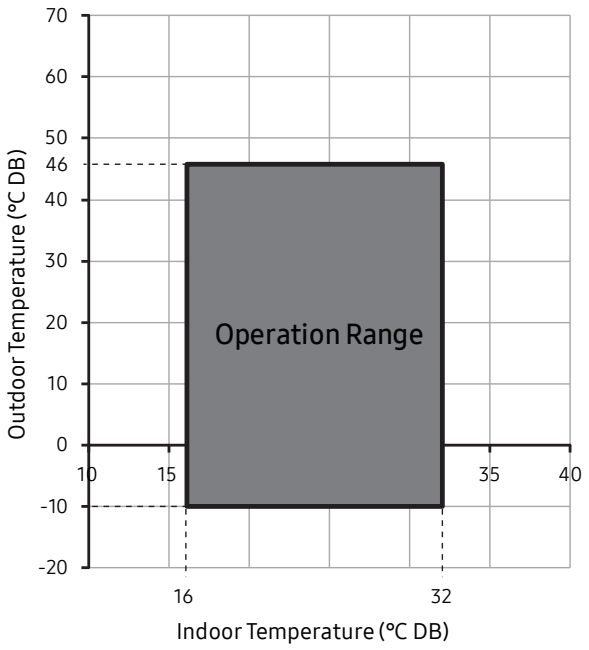


8. Piping Diagram

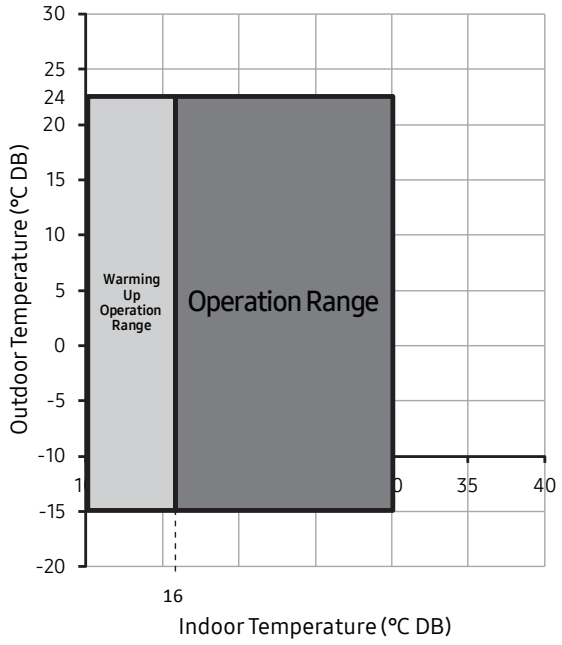


9. Operation Limit

Cooling



Heating

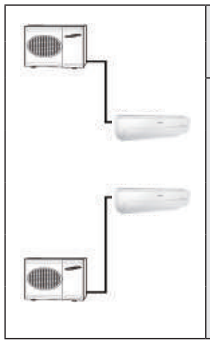


10. Capacity Correction

Outdoor units

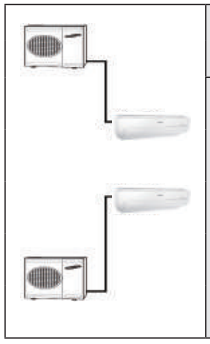
AR4500 : AR09TXHZAWKNEU+AR09TXHZAWKXEU, AR12TXHZAWKNEU+AR12TXHZAWKXEU
AR7500 : AR09TXFCAWKNEU+AR09TXFCAWKXEU, AR12TXFCAWKNEU+AR12TXFCAWKXEU
AR5500 : AR09TXFYAWKNEU+AR09TXFYAWKXEU, AR12TXFYAWKNEU+AR12TXFYAWKXEU
AR9500 : AR09TXEAAWKNEU+AR09TXEAAWKXEU, AR12TXEAAWKNEU+AR12TXEAAWKXEU
AR09TXCAAWKNEU+AR09TXCAAWKXEU, AR12TXCAAWKNEU+AR12TXCAAWKXEU

Cooling



		Pipe Length (m)			
		5	10	12.5	15
Level Difference (m)	8	-	0.96	0.94	0.91
	5	0.99	0.97	0.95	0.92
	0	1	0.98	0.96	0.93
	-5	0.99	0.97	0.95	0.92
	-8	-	0.96	0.94	0.91

Heating



		Pipe Length (m)			
		5	10	12.5	15
Level Difference (m)	8	-	0.96	0.94	0.91
	5	0.99	0.97	0.95	0.92
	0	1	0.98	0.96	0.93
	-5	0.99	0.97	0.95	0.92
	-8	-	0.96	0.94	0.91

10. Capacity Correction

Outdoor units

AR4500 : AR18TXHZAWKNEU+ AR18TXHZAWKXEU, AR24TXHZAWKNEU+AR24TXHZAWKXEU
AR7500 : AR18TXFCAWKNEU+ AR18TXFCAWKXEU, AR24TXFCAWKNEU+ AR24TXFCAWKXEU
AR5500 : AR18TXFYAWKNEU+ AR18TXFYAWKXEU, AR24TXFYAWKNEU+ AR24TXFYAWKXEU
AR9500 : AR18TXEAAWKNEU+ AR18TXEAAWKXEU, AR24TXEAAWKNEU+ AR24TXEAAWKXEU

Cooling

		Pipe Length (m)						
		5	10	12.5	15	20	25	30
Level Difference (m)	15	-	-	-	0.92	0.90	0.88	0.86
	10	-	0.95	0.94	0.93	0.91	0.89	0.87
	7	-	0.96	0.95	0.94	0.92	0.90	0.88
	5	0.99	0.97	0.96	0.95	0.93	0.91	0.89
	0	1	0.98	0.97	0.96	0.94	0.92	0.90
	-5	0.99	0.97	0.96	0.95	0.93	0.91	0.89
	-7	-	0.96	0.95	0.94	0.92	0.90	0.88
	-10	-	0.95	0.94	0.93	0.91	0.89	0.87
	-15	-	-	-	0.92	0.90	0.88	0.86

Heating

		Pipe Length (m)						
		5	10	12.5	15	20	25	30
Level Difference (m)	15	-	-	-	0.92	0.90	0.88	0.86
	10	-	0.95	0.94	0.93	0.91	0.89	0.87
	7	-	0.96	0.95	0.94	0.92	0.90	0.88
	5	0.99	0.97	0.96	0.95	0.93	0.91	0.89
	0	1	0.98	0.97	0.96	0.94	0.92	0.90
	-5	0.99	0.97	0.96	0.95	0.93	0.91	0.89
	-7	-	0.96	0.95	0.94	0.92	0.90	0.88
	-10	-	0.95	0.94	0.93	0.91	0.89	0.87
	-15	-	-	-	0.92	0.90	0.88	0.86

11. Installation

Installation of the product

- Our units must be installed in compliance with the spaces indicated in the installation manual to ensure either accessibility from both sides or ability to perform routine maintenance and repairs. The units' components must be accessible and that can be disassembled in conditions of complete safety either for people or things. For this reason, where it is not observed as indicated into the Installation Manual, the cost necessary to reach and repair the unit (in safety, as required by current regulations in force) with slings, trucks, scaffolding or any other means of elevation won't be considered in-warranty and will be charged to end user.
- The outdoor unit shall be installed in an open space that is always ventilated.
- The local gas regulations shall be observed.
- To handle, purge, and dispose the refrigerant, or break into the refrigerant circuit, the worker should have a certificate from an industry-accredited authority.
- The installation of pipings shall be kept to a minimum.
- Do not install the indoor unit in the following areas:
  - Area filled with minerals, splashed oil, or steam. It will deteriorate plastic parts, causing failure or leakage.
  - Area that is close to heat sources.
  - Area that produces substances such as sulfuric gas, chlorine gas, acid, and alkali. It may cause corrosion of the pipings and brazed joints.
  - Area that can cause leakage of combustible gas and suspension of carbon fibers, flammable dust, or volatile flammables.
  - Area where refrigerant leaks and settles.
  - Area where animals may urinate on the product. Ammonia may be generated.
- Do not use the indoor unit for preservation of food items, plants, equipment, and art works. This may cause deterioration of their quality.
- Do not install the indoor unit if it has any drainage problem.
- For the multi system, this indoor unit can be conncected to an R-32 or R-410A outdoor unit. Check the type of refrigerant in the outdoor unit.
- Because your air conditioner contains R-32 refrigerant, make sure that it is installed, operated, and stored it in a room whose floor area is larger than the minimum required floor area specified in the following table:

Wall-mounted type	
m (kg)	A (m²)
≤ 1.842	No requirement
1.843	4.45
1.9	4.58
2.0	4.83
2.2	5.31
2.4	5.79
2.6	6.39
2.8	7.41
3.0	8.51

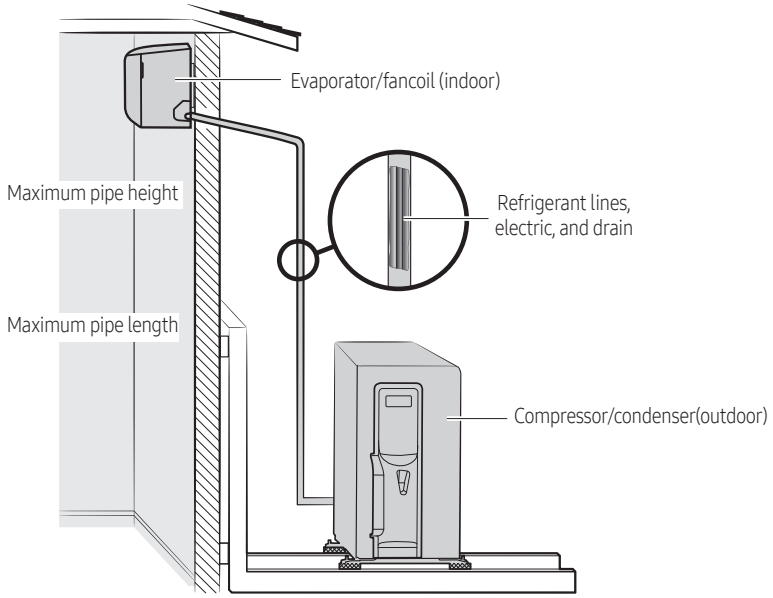
  - m : Total refrigerant charge in the system
  - A : Minimum required floor area
- IMPORTANT: it's mandatory to consider either the table above or taking into consideration the local law regarding the minimum living space of the premises.
- Minimum installation height of indoor unit is 0.6 m for floor mounted, 1.8 m for wall, 2.2 m for ceiling.
- The actual refrigerant charge shall be in accordance with the room size within which the refrigerant containing parts are installed.
- The ventilation machinery and outlets shall be operating adequately and not obstructed.
- If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant.
- Marking to the equipment shall continue to be visible and legible. Markings and signs that are illegible shall be corrected.
- Refrigerating pipe or components shall be installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

11. Installation

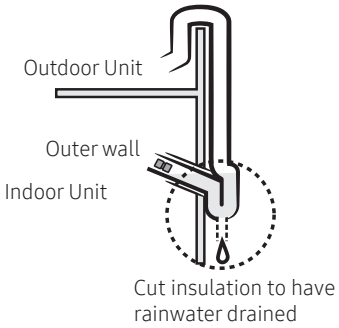
Viewing the typical installation

A typical installation will be similar to the one shown below.



(Unit : m)

Model	Pipe length			Pipe height
	Minimum	Maximum	Standard for factory charge	Maximum
07***** **09******* **12*******	3	15	5	8
18***** **24*******	3	30	5	15



CAUTION

Make a U-trap (A) on the pipe (which is connected to the indoor unit) at outer wall and cut the bottom part of the insulation (about 10 mm) to prevent rainwater from getting inside through the insulation.

⚠ CAUTION

- For the product that uses the R-32 refrigerant, Install the indoor unit on the wall 1.8 m or higher from the floor.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

11. Installation

Choosing the installation location

If using a multi system, install as described in the installation manual supplied with the outdoor unit.

⚠ WARNING

- Verify that a dedicated circuit breaker and a disconnect switch of the appropriate sizes for the air conditioner are preinstalled and available for use.
- Verify that the voltage and frequency of the power supply comply with the rated voltage as defined on the unit name plate.
- Verify that a suitable grounding connection is available.
- Do not install this appliance in an environment containing hazardous substances or close to equipment that releases open flames.
- Do not install this appliance near a heater or flammable material.

⚠ CAUTION

- The manufacturer shall not be responsible for damage occurring as a result of the wrong voltage being applied to this air conditioner.
- The indoor and outdoor units must be installed in compliance with minimum clearances to ensure that both units are accessible from both sides and can be maintained or repaired. Insufficient clearance may reduce product performance, generate excessive noise, and reduce the life of some unit components.

IMPORTANT

- Any changes or modifications to the installation described in this manual that are not expressly approved by the manufacturer could void the manufacturer's warranty.

To determine where to locate the indoor and outdoor units, you must survey the entire site and consider many variables. The goal is to select locations that comply with all safety precautions while also minimizing the total effort involved.

Indoor unit location requirements

⚠ WARNING

- Do not install the unit in a humid, oily, or dusty location or in a location exposed to direct sunlight, water, or rain.
- Make sure that the wall can support the unit weight.

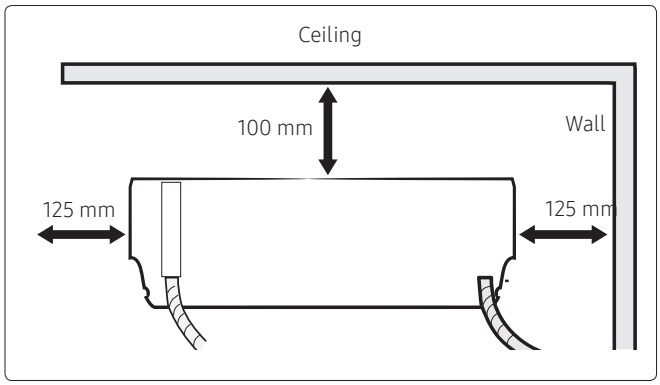
Examine the area that the customer wants to be air conditioned. Consider the following:

- What wall location will meet minimum clearances and provide optimal product performance?
- Will the wall provide adequate support for the unit weight (wall with stud construction or concrete)? If applicable, where are the studs?
- Where will you place the wall penetration for routing the piping bundle (consisting of power and communication cables, refrigerant pipes, and the drain hose) through the wall to the outdoor unit? Will the hole intersect any plumbing or wires in the wall?
- Is the location as close as possible to where the outdoor unit will be installed, to minimize the length of piping and cables?
- Will the condensate drain inside the room, through the wall penetration to the outdoor unit, or be connected to a condensate pump?

NOTE

- This manual covers a typical gravity-drain installation where the drain hose is routed to the outdoor unit through a hole in the wall.

Minimum clearances for the indoor unit



※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

11. Installation

Outdoor unit location requirements

Examine the area where the outdoor unit could be located. Consider the following:

- What location will meet minimum clearances and provide optimal product performance?
- Is there an existing level and hard foundation, such as a concrete pad, that will support the unit weight and produce minimal vibration? Installation on uneven ground may result in abnormal vibrations, noise, or problems with the unit.
- Does the unit need to be mounted on the wall?
- Where are the dedicated circuit breaker and disconnect switch located? How will you connect them to the unit?
- How will you route the piping bundle from the indoor unit? Is the location as close as possible to where the indoor unit will be installed, to minimize the length of piping and cables?
- Will the unit be sheltered from the wind? In a high-wind area, you may need to build a protective fence around the unit.
- Where will the condensate drain?

⚠ WARNING

- The drain location must allow condensate to drain properly and prevent ice from forming on the unit in winter. If a block of ice falls from the unit, it may result in death, serious injury, or property damage. Improper or inadequate draining may result in water overflowing and property damage.

⚠ CAUTION

- Do not connect the drain hose to existing waste pipes as odors may arise.

Installation on an exterior wall

If the outdoor unit must be installed on an exterior wall, you will need an L-bracket to support the unit. This bracket is not included with the unit.

⚠ WARNING

- The wall must be capable of supporting the weight of both the L-bracket and the outdoor unit. If the unit falls, it may result in crushing, electric shock, fire, or explosion that could cause death, severe personal injury, or property damage.

Installation Guide at the seashore

Make sure to follow below guides when installing at the seashore.

1 Do not install the product in a place where it is directly exposed to sea water and sea breeze.
   - Make sure to install the product behind a structure (such as building) that can block see breeze.
   - Even when it is inevitable to install the product in seashore, make sure that product is not directly exposed to sea breeze by installing a protection wall.

2 Consider that the salinity particles clinging to the external panels should be sufficiently washed out.

3 Because the re sidual water at the bottom of the outdoor unit significantly promotes corrosion, make sure that the slope does not disturb drainage.
   - Keep the floor level so that rain does not accumulate.
   - Be careful not to block the drain hole due to foreign substance.

4 When product is installed in seashore, periodically clean it with water to remove attached salinity.

5 Make sure to install the product in a place that provides smooth water drainage. Especially, ensure that the base part has good drainage.

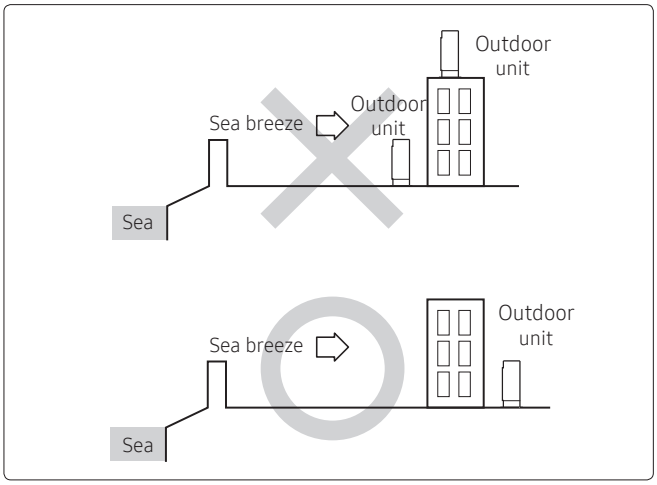
6 If the product is damaged during the installation or maintenance, make sure to repair it.

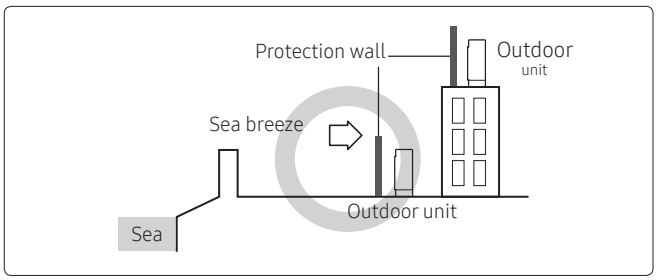
7 Check the condition of the product periodically.
   - Check the installation site every 3 months and perform anti-corrosion treatment such as R-Pro supplied by SAMSUNG (Code : MOK-220SA) or commercial water repellent grease and wax, etc., based on the product condition.
   - When the product is to be shut down for a long period of time, such as off-peak hours, take appropriate measures like covering the product.

8 If the product installed within 500m of seashore, special anti-corrosion treatment is required.
   ※ Please contact your local SAMSUNG representative for further details.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

11. Installation

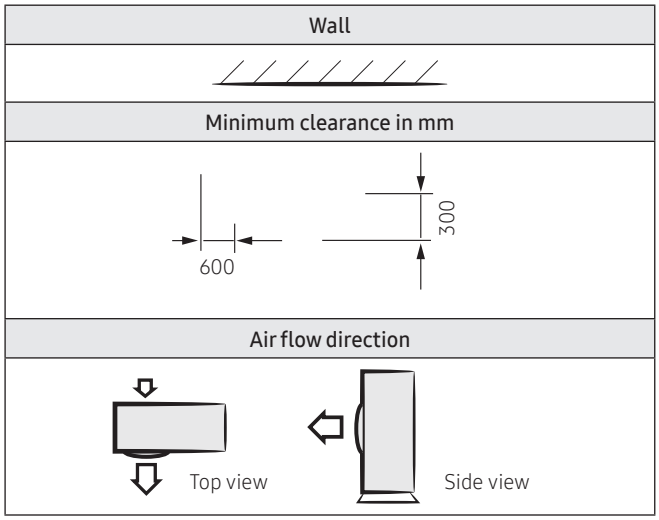




- Protection wall should be constructed with a solid material that can block the sea breeze and the height and width of the wall should be 1.5 times larger than the size of the outdoor unit. (You must secure more than 700 mm of space between the protection wall and the outdoor unit for air circulation.)

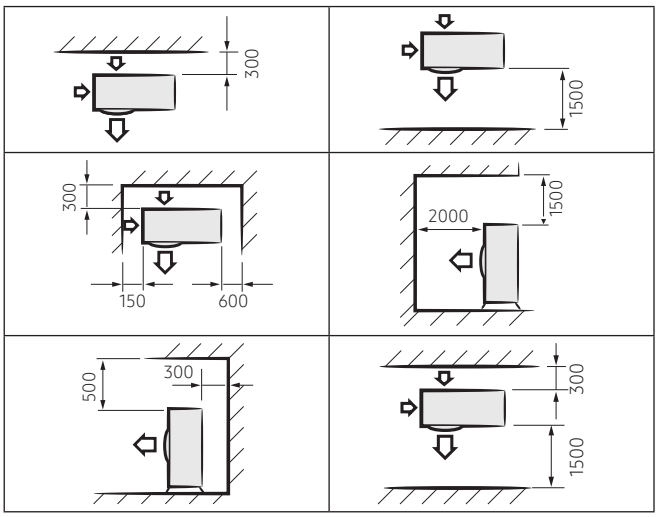
Minimum clearances for the outdoor unit

Legends:



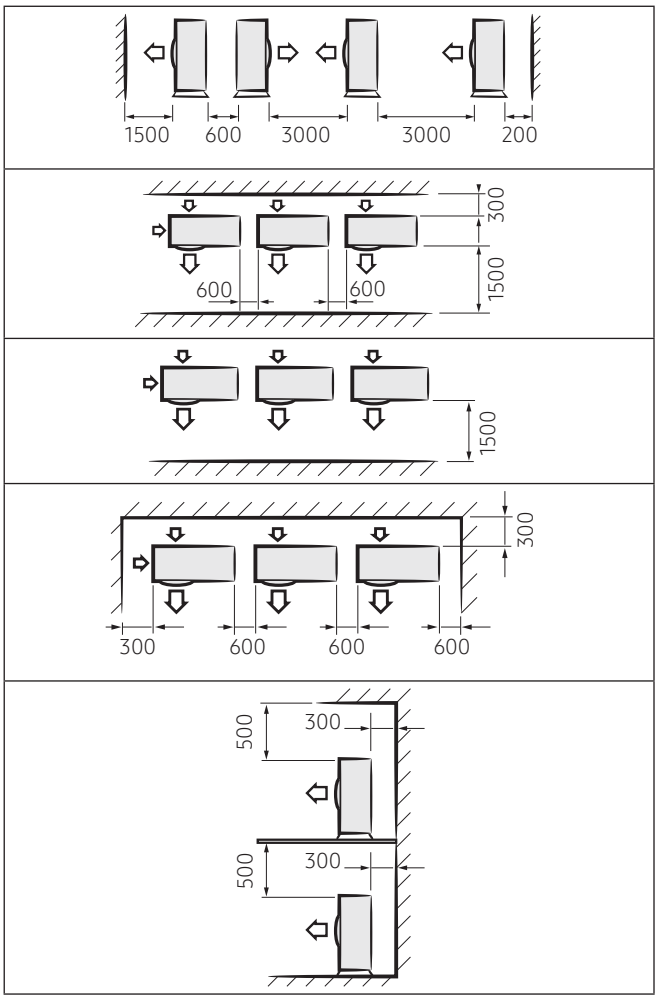
Examples for installing one outdoor unit:

Unit: mm



Examples for installing multiple outdoor units:

Unit: mm



※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

11. Installation

Indoor Unit Installation

Attaching the mounting bracket to the wall

1 Hold the mounting bracket against the wall at the selected installation position making sure that the screw holes align with the center of the studs in the wall. If the screw locations do not align with the studs, use wall anchors.

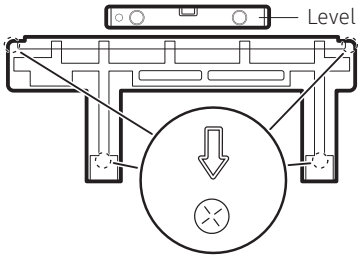
⚠ CAUTION

- The recommended best practice is to attach the mounting bracket directly to the studs in the wall. If you did not find a suitable location with studs (in Step 1.2 on page 90), or if the wall is concrete, you must use wall anchors of a suitable type and weight capacity, and install them according to the manufacturer's instructions. Failure to do so may cause the material surrounding the joints to crumble over time and the screws to be loosened and stripped. This may result in the unit falling from the wall, which could cause physical injury or equipment damage.

2 Using a level, make sure that the mounting bracket is level, then mark the location of the screw holes on the wall.

3 If using wall anchors, install them at the screw hole positions, following the manufacturer's instructions.

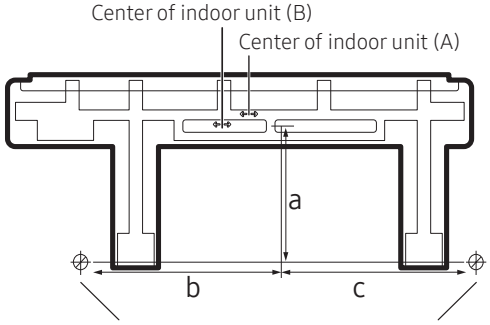
4 Using six field-supplied mounting screws and anchors (if applicable), attach the bracket to the wall.



Screw Location x 4ea

Drilling the wall penetration

1 Determine the position of the hole through which the piping bundle (consisting of power and communication cables, refrigerant pipes, and the drain hose) will pass. Consider the following:
   - The hole inner diameter must be 65 mm.
   - The recommended hole location is behind the unit so that the hole and the piping bundle will not be visible in the room. The minimum distances between the hole and the mounting bracket are:



Possible positions for hole behind unit

Model		a	b	c
07TXFC* **09TXFC*** **12TXFC***	A	165	305	416
07TXCA* **07TXEA*** **09TXCA*** **09TXEA*** **12TXCA*** **12TXEA***	B	165	305	486
18***** **24*******	A	150	305	650.5

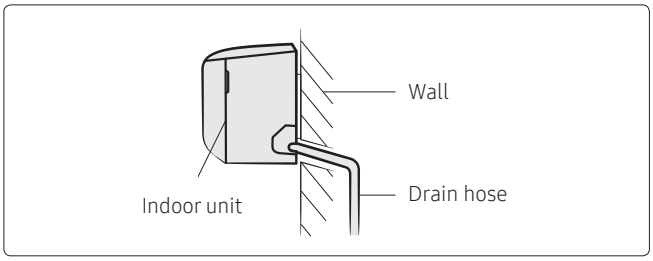
   - If the hole cannot be positioned behind the unit, find a position as close to the unit as possible. The piping bundle that exits the unit and extends to the hole will need to be attached to the wall and will be visible inside the room.
   - In relation to the bracket shown above, the unit is shipped with the drain hose connection on the right, the drain hose exits the unit on the left, and the refrigerant pipes are bent to exit on the left. Thus, positioning the hole to the left requires the least effort. If you position the hole to the right or below the unit, you will need to move the drain hose connection to the left and bend the pipes so that the hose and pipes exit to the right or bottom.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

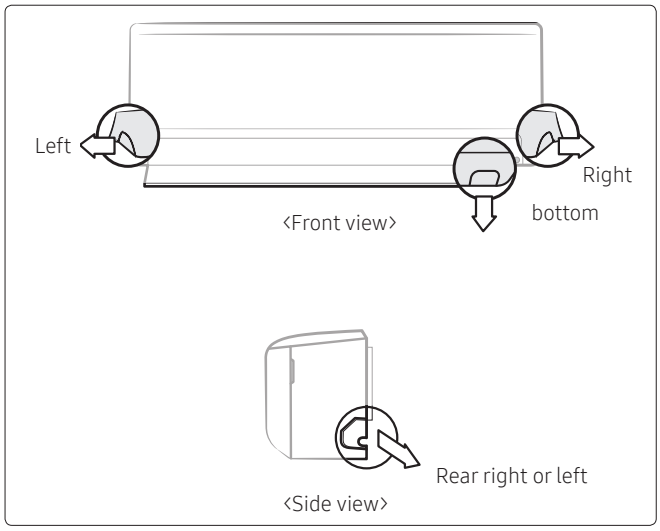
11. Installation

Indoor Unit Installation

2 Use a standard 65 mm hole saw to drill one hole at the selected location, at a 15° downward angle so that the drain hose will drain properly.



3 Based on the hole location, determine where the piping bundle (drain hose, refrigerant pipes, and cables) will exit the unit.



NOTE

- The left, right, or bottom exit will only be used if the hole is not positioned behind the unit.

Connecting the power and communication cables

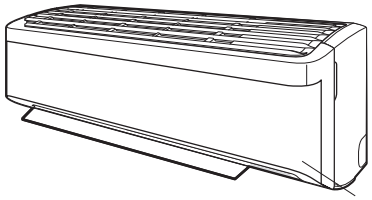
If using a multi system, install as described in the installation manual supplied with the outdoor unit.

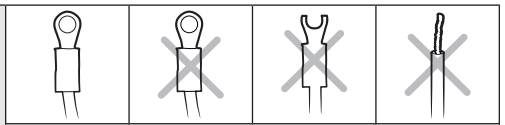
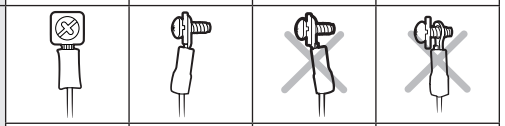
⚠ WARNING

- Do not modify the power cable in any way. Doing so may cause electric shock or fire due to poor connection, poor insulation, or current limit override. Make sure to comply with the technical standards of electrical installations and the wiring regulations in the local area.
- This appliance must be properly grounded. Do not ground the appliance to a gas pipe, plastic water pipe, or telephone line. Failure to comply may result in electric shock, fire, and explosion.

1 Connect each wire to its corresponding terminal number.

Model	**07******* **09******* **12*******	**18******* **24*******
Power cable (Outdoor unit)	3G X 2.5 mm², H07RN-F	3G X 2.5 mm², H07RN-F
Outdoor-to-indoor power cable	3G X 1.0 mm², H07RN-F	3G X 1.0 mm², H07RN-F
Communication cable	2 X 0.75 mm², H05RN-F	2 X 0.75 mm², H05RN-F
Type GL	16A	20A



Before connecting				
	Correct	Upside down	Damaged	Non-circular
After connecting				
	Correct (Front view)	Correct (Side view)	Upside down	Non-fitted

<Circular terminal>

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

11. Installation

Indoor Unit Installation

⚠ CAUTION

- Connect the wires firmly so that wires cannot be pulledout. Loose wires can cause the connection to overheat.
  Each circular terminal must match the size of itscorresponding screw in the terminal block.

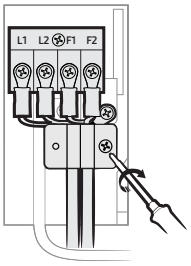
⚠ CAUTION

- For the terminal block wiring, use a wire with a ring terminal socket only. Regular wires without a ring terminal socket may become a hazard as the connections may loosen during operation.

For the product that uses the R-32 refrigerant, be cautious not to generate a spark by keeping the following requirements:

- Do not remove the fuses with power on.
- Do not disconnect the power plug from the wall outlet with power on.
- It is recommended to locate the outlet in a high position. Place the cords so that they are not tangled.

2 Tighten the terminal block screw.



3 In Step 2.2, step 3 you determined the exit position for the piping bundle. If using the left, right, or bottom exits, pass the cables through the selected knockout.

NOTE

- Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord. (Code designation IEC: 60245 IEC66/CENELEC: H07RN-F, IEC: 60245 IEC57 CENELEC: H05RN-F, IEC: 60227 IEC53: H05VV-F)
- Power & Communication cable shall not exceed 30 m.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

11. Installation

Outdoor Unit Installation

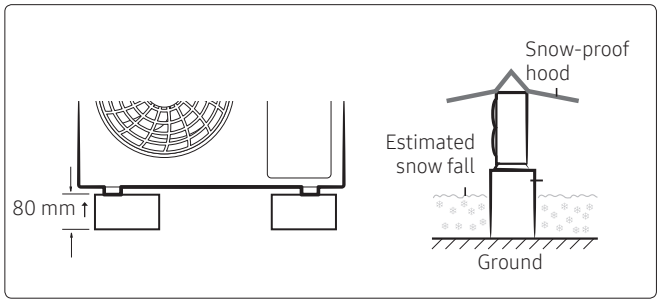
If using a multi system, install as described in the installation manual supplied with the outdoor unit.

Mounting the outdoor unit

To promote proper condensate draining, the recommended installation of the outdoor unit is elevated above the ground on a mounting bracket attached to a concrete pad.

In areas where snowfall occurs, the unit must be mounted above the snow line to allow for proper heating. Snow cannot be allowed to collect on top of the unit. For promoting natural drainage in a heavy snow fall area:

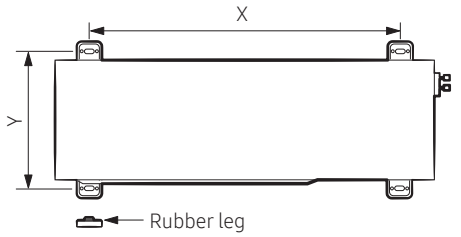
- Make space more 80 mm between the bottom of the outdoor unit and the ground for installation. (Ensure that the drained water runs off correctly and safely.)
- Allow enough separation distance between the product and the ground.



On the ground

1 Place the outdoor unit in the selected installation location (Step 1.1 on page 93), ensuring proper clearances and with the arrow on top of the unit pointing away from the wall.

2 Clip the rubber feet to the tabs to minimize sound and vibration to the structure.



(Unit: mm)

Model	X	Y
09TXFC* **12TXFC***	436	265
09TXCA* **09TXEA*** **12TXCA*** **12TXEA***	602	310
18***** **24*******	660	340

3 Level the unit, then use anchor bolts to secure it at the four mounting points.

4 For installations in locations that require seismic or hurricane tie downs, comply with local codes.

5 If the selected location is exposed to strong winds, install a protective fence around the unit so that the fan can operate correctly.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

11. Installation

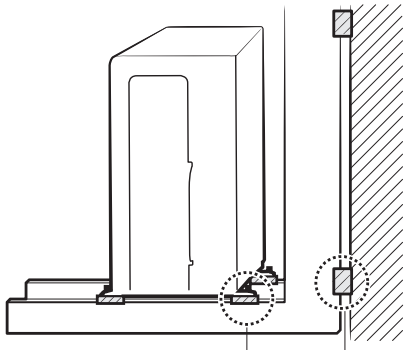
Outdoor Unit Installation

On a wall

⚠ **WARNING**

- The unit must be properly secured to the wall. If the unit falls, it may result in crushing, electric shock, fire, or explosion that could cause death, severe personal injury, or property damage.

1 At the selected installation location attach the L-bracket to the wall as follows:
   - Install the bracket as close to the wall as possible.
   - Insert rubber isolators between the bracket and the wall to minimize sound and vibration to the structure. Do not fully compress the isolators.



   - Make sure that the bracket is level.
   - Use suitable bolts/washers and lock washers.

2 Place the outdoor unit on the bracket, ensuring proper clearances and with the arrow on top of the unit pointing away from the wall.

3 Clip the rubber feet to the tabs to minimize sound and vibration to the structure.

4 Level the unit, then use anchor bolts to secure it at the four mounting points.

5 For installations in locations that require seismic or hurricane tie downs, comply with local codes.

Adding refrigerant (if needed)

The outdoor unit is charged with sufficient R-32 refrigerant to support up to a 5 m line set. For lengths greater than 5 m, you must add 15 g of refrigerant per meter of additional length, after the lines are evacuated.

1 Calculate the additional refrigerant required:
Additional grams of R-32 = (Total line set meter – 5) × 15

2 Connect the common hose of the manifold gauge set to the inverted R-32 refrigerant cylinder.

3 Place the refrigerant cylinder on a scale set to measure grams.

4 Open the valve on the tank.

5 At the manifold connection, bleed the refrigerant to remove any air that may be present in the common hose.

6 Open the gauge manifold and charge the system with the amount of refrigerant calculated in step 1.

7 Close the gauge manifold valve, close the valve on the refrigerant tank, and remove the common hose.

Precautions on adding the R-32 refrigerant

In addition to the conventional charging procedure, the following requirements shall be kept.

- Make sure that contamination by other refrigerants does not occur for charging.
- To minimize the amount of refrigerant, keep the hoses and lines as short as possible.
- The cylinders shall be kept upright.
- Make sure that the refrigeration system is earthed before charging.
- Label the system after charging, if necessary.
- Extreme care is required not to overcharge the system.
- Before recharging, the pressure shall be checked with nitrogen blowing.
- After charging, check for leakage before commissioning.
- Be sure to check for leakage before leaving the work area.

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

11. Installation

Outdoor Unit Installation

Important information: regulation regarding the refrigerant used

This product contains fluorinated greenhouse gases. Do not vent gases into the atmosphere.

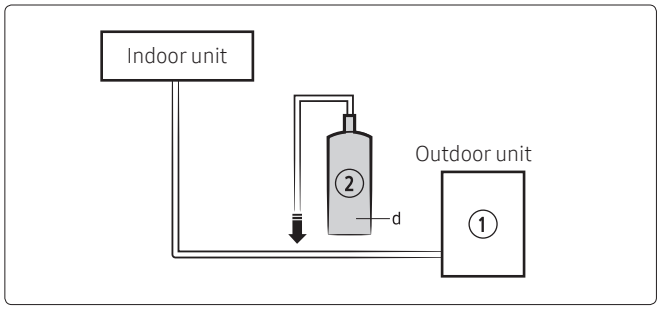
⚠ CAUTION

- Inform user if the system contains 5 tCO_2e or more of fluorinated greenhouse gases. In this case, it must be checked for leakage at least once every 12 months, according to regulation No. 517/2014. This activity must be covered by qualified personnel only. In the case of the situation above, the installer (or authorized person with responsibility for final check) must provide a maintenance book, with all the information recorded, according to REGULATION (EU) No. 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases.

1 Please fill in the following with indelible ink on the refrigerant charge label supplied with this product and on this manual.
   - ❶ the factory refrigerant charge of the product,
   - ❷ the additional refrigerant amount charged in the field and
   - ❶+❷ the total refrigerant charge. on the refrigerant charge label supplied with the product.

Refrigerant type	GWP value
R-32	675

- GWP: Global Warming Potential
- Calculating tCO_2e: kg x GWP/1000



Unit	Kg	tCO_2e
①, a		
②, b		
①+②, c		

NOTE

- Factory refrigerant charge of the product: see unit name plate
- Additional refrigerant amount charged in the field (Refer to the above information for the quantity of refrigerant replenishment.)
- Total refrigerant charge
- Refrigerant cylinder and manifold for charging

⚠ CAUTION

- The filled-out label must be adhered in the proximity of the product charging port (e.g. onto the inside of the stop valve cover).
- Make sure that the total refrigerant charge does not exceed (A), the maximum refrigerant charge, which is calculated in the following formula: Maximum refrigerant charge (A)= factory refrigerant charge (B) + maximum additional refrigerant charge due to piping extension (C)
- Here below, the summary table with refrigerant charge limits for each products.

(Unit:g)

Model	A	B	C
09TXFC* **12TXFC***	850	700	150
09TXCA* **12TXCA***	1115	965	150
24TXFC*	1525	1150	375
18***** **24TXEA***	1675	1300	375

※ In case you want more information about the controllers and accessories, please refer to the Controller and Accessory TDB on pvi.Samsung.com site or Global Partner Portal site.

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