

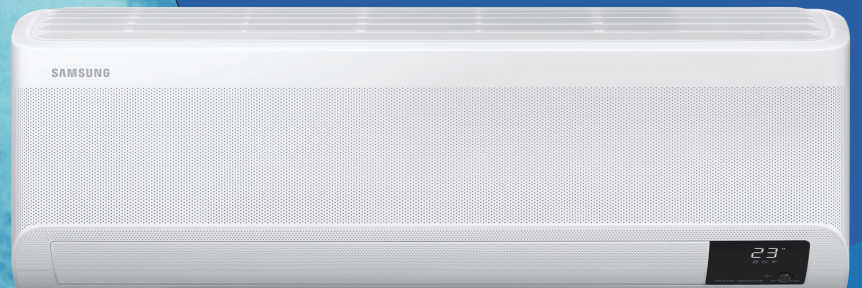
**SAMSUNG**

# 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	
Ver.3.1	Updated some specification data	20.02.06	
Ver.3.2	Updated the Sound data of Outdoor Unit	20.11.25	

# Nomenclature

## Model Name

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

### (1) Classification

<b>AR</b>	RAC
-----------	-----

### (2) Capacity

x1000 Btu/h
-------------

### (3) Year

<b>T</b>	2020
----------	------

### (4) Product Type

<b>X</b>	INVERTER HP R32
----------	-----------------

### (5) Characteristics

<b>C</b>	Motion Detect Sensor +Wi-Fi + Tri-care Filter
<b>E</b>	Wi-Fi + Tri-care Filter
<b>F</b>	Wi-Fi
<b>H</b>	-

### (6) Design Segment

<b>A</b>	Wind-Free GEO
<b>C</b>	Wind-Free AIRISE
<b>Y</b>	GEO
<b>Z</b>	AIRISE

### (7) Version

A-Z (1 digit)
---------------

### (8) Color









<b>WK</b>	DA White
-----------	----------

### (9) Set

<b>N</b>	Indoor Unit
<b>X</b>	Outdoor Unit
<b>/</b>	Set

# Line-up



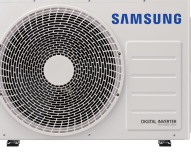



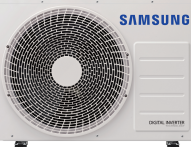
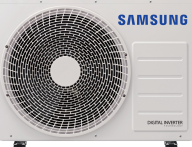


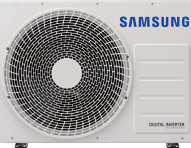
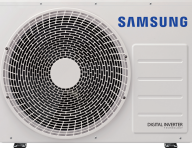


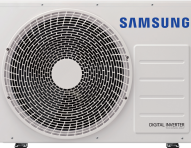
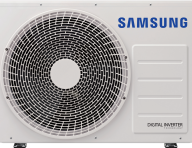
## Indoor Unit

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				

# Contents

---

1. Specification	7
2 Capacity Table	23
3. Dimensional Drawing	41
4. Center of Gravity	47
5. Electrical Wiring Diagram	49
6. Sound Data	52
7. Temperature and air flow distribution	72
8. Piping Diagram	81
9. Operation Limit	82
10. Capacity Correction	83
11. Installation	85

# 1. Specification

## AR4500

	Model Name	Indoor Unit		AR09TXHZAWKNEU	AR12TXHZAWKNEU	
		Outdoor Unit		AR09TXHZAWKXEU	AR12TXHZAWKXEU	
System	Mode			-	HEAT PUMP	
	Performance	Capacity (Min/Std/Max)	Cooling	kW	0.9 / 2.5 / 3.35	0.9 / 3.5 / 4
				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	0.205 / 0.70 / 1.03	0.205 / 1.22 / 1.4
			Heating	kW	0.20 / 0.84 / 1.27	0.20 / 0.94 / 1.45
		Current Input (Min/Std/Max)	Cooling	A	1.3 / 3.6 / 4.7	1.3 / 5.6 / 6.3
			Heating	A	1.4 / 4.0 / 5.6	1.4 / 4.5 / 6.4
	Efficiency	EER	Cooling	-	3.57	2.87
		COP	Heating	-	3.81	3.72
		SEER (Cooling Energy Grade)		-	6.70 (A++)	6.50 (A++)
		SCOP (Heating Energy Grade)		-	4.00 (A+)	4.00 (A+)
		Pdesignh		kW	2.1	2.2
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Installation Limitation	Max. Length (Outdoor to indoor)	m	15	15
Max. Height (Between ID/OD)	m			8	8	
	Wiring connections	Power Source Wire		mm <sup>2</sup>	1.5	
Communication		Min.	mm <sup>2</sup>	0.75	0.75	
	Remark	-	F1, F2	F1, F2		
Refrigerant	Type		-	R32		
	Factory Charging		kg	0.7		
			tCO <sub>2</sub> e	0.47		
Indoor Unit	Power Supply		Ø, #, V, Hz	1,220-240,50	1,220-240,50	
	Heat Exchanger	Type		-	F&T	
		Material	Fin	-	Al	
			Tube	-	Cu	
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	
	Fan	Type		-	Cross Flow	
		Quantity		EA	1	
		Air Flow Rate	Cooling (T/H/M/L)	m <sup>3</sup> /min	10.3 / 9.8 / 9.3 / 8.4	10.7 / 10.3 / 9.3 / 8.4
				l/s	172 / 163 / 155 / 140	178 / 172 / 155 / 140
		Heating (T/H/M/L)	m <sup>3</sup> /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	
		Output		W x n	27 x 1	
	Drain	Drain Pipe		Φ, mm	Φ16.3, 550mm	
	Sound	Sound Pressure Level	H / Silent	dB(A)	37 / 19	
				dB(A)	54	
	External Dimension	Net Weight		kg	9.1	
		Shipping Weight		kg	11.1	
		Net Dimensions (WxHxD)		mm	820 x 299 x 215	
		Shipping Dimensions (WxHxD)		mm	880 x 290 x 375	
Casing	Material		-	HIPS		
	Infrared remote control		-	Included		
Control System	Wired remote control		-	Included		
			-	MWR-WE13N		
			-	MWR-WG00JN		
			-	MWR-WG00KN		
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		
	Tri-Care Filter		-	-		
Motion Detect Sensor		-	-			
Wi-Fi		-	-			

# 1. Specification

## AR4500

	Indoor Unit		AR09TXHZAWKNEU	AR12TXHZAWKNEU	
	Outdoor Unit		AR09TXHZAWKXEU	AR12TXHZAWKXEU	
Outdoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	
	Heat Exchanger	Type	-	F&T	
		Material	Fin	-	Al
			Tube	-	Cu
		Fin Treatment		-	Anti-Corrosion
	Compressor	Model Name		UB1AR5090FJ6	
		Type		BLDC ROTARY	
		Output		kW	2.8
		Oil	Type	-	POE
	Initial charge		cc	260	
	Fan	Type		Propeller	
		Discharge direction		Front	
		Quantity		EA	1
		Air Flow Rate		m <sup>3</sup> /min	28
	l/s			467	
	Fan Motor	Type		BLDC	
		Output		W x n	40 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46
			Heating	dB(A)	47
	External Dimension	Sound Power Level		dB(A)	63
Net Weight		kg	22.6		
Shipping Weight		kg	24.3		
Net Dimensions (WxHxD)		mm	660 x 475 x 242		
Casing	Shipping Dimensions (WxHxD)		mm	778 x 550 x 331	
	Material	Body	-	EGI Steel Plate / PP	
Operating Temp. Range		Cooling		°C	-10 ~ 46
	Heating		°C	-15 ~ 24	

### NOTE

- Specifications may be subject to change without prior notice.
- 1) Nominal cooling capacities are based on;  
Indoor temperature: 27°C DB, 19°C WB  
Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - 2) Nominal heating capacities are based on;  
Indoor temperature: 20°C DB, 15°C WB  
Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - 3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - 4) These products contain R32 which is fluorinated greenhouse gas.



# 1. Specification

## AR4500

	Model Name	Indoor Unit		AR18TXHZAWKNEU	AR24TXHZAWKNEU	
		Outdoor Unit		AR18TXHZAWKXEU	AR24TXHZAWKXEU	
System	Mode			HEAT PUMP	HEAT PUMP	
	Performance	Capacity (Min/Std/Max)	Cooling	kW	1.6 / 5.0 / 6.7	1.4 / 6.5 / 7.6
				Btu/h	5,459 / 17,061 / 22,861	4,777 / 22,179 / 25,932
		Heating		kW	1.3 / 6.0 / 8.0	1.2 / 7.4 / 9.4
				Btu/h	4,436 / 20,473 / 27,297	4,095 / 25,250 / 32,074
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.32 / 1.39 / 2.18	0.3 / 1.95 / 2.6
			Heating	kW	0.27 / 1.71 / 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	-	3.51	3.15
		SEER (Cooling Energy Grade)		-	6.80 (A++)	6.40 (A++)
		SCOP (Heating Energy Grade)		-	3.80 (A)	3.80 (A)
		Pdesignh		kW	3.8	4.1
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	12.7 (1/2)	15.88 (5/8)
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Installation Limitation	Max. Length (Outdoor to indoor)	m	30	30
Max. Height (Between ID/OD)	m			15	15	
	Wiring connections	Power Source Wire		mm <sup>2</sup>	2.5	2.5
Communication		Min.	mm <sup>2</sup>	0.75	0.75	
		Remark	-	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	
	Factory Charging		kg	1.3	1.15	
			tCO <sub>2</sub> e	0.88	0.78	
Indoor Unit	Power Supply		Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	
	Heat Exchanger	Type		-	F&T	F&T
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile
	Fan	Type		-	Cross Flow	Cross Flow
		Quantity		EA	1	1
		Air Flow Rate	Cooling (T/H/M/L)	m <sup>3</sup> /min	16.5 / 15.8 / 14.4 / 13	17.2 / 15.8 / 14.4 / 13
				l/s	275 / 263 / 240 / 216.7	286.7 / 263 / 240 / 216.7
			Heating (T/H/M/L)	m <sup>3</sup> /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
		Infrared remote control		-	Included	Included
	Control System	Wired remote control		-	MWR-WE13N MWR-WG00JN MWR-WG00KN MWR-SH11N	MWR-WE13N MWR-WG00JN MWR-WG00KN MWR-SH11N
		Drain Pump		-	-	-
	Additional Accessories	Max. lifting Height / Displacement		mm / Liter/h	-	-
		Drain Pump	External Model	-	-	-
				Internal Model	-	-
Max. lifting Height / Displacement			mm / Liter/h	-	-	
Easy Filter Plus		-	Removable / Washable	Removable / Washable		
Tri-Care Filter		-	-	-		
Motion Detect Sensor		-	-	-		
Wi-Fi		-	-	-		

# 1. Specification

## AR4500

	Indoor Unit		AR18TXHZAWKNEU	AR24TXHZAWKNEU	
	Outdoor Unit		AR18TXHZAWKXEU	AR24TXHZAWKXEU	
Outdoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	
	Heat Exchanger	Type	-	F&T	
		Material	Fin	-	Al
			Tube	-	Cu
		Fin Treatment		-	Anti-Corrosion
	Compressor	Model Name		UB9TK3150FE4	
		Type		BLDC ROTARY	
		Output		kW	4.69
		Oil	Type	-	POE
	Initial charge		cc	500	
	Fan	Type		Propeller	
		Discharge direction		Front	
		Quantity		EA	1
		Air Flow Rate		m <sup>3</sup> /min	50
	l/s			833	
	Fan Motor	Type		BLDC	
		Output		W x n	40 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	51
			Sound Power Level		dB(A)
	External Dimension	Net Weight		kg	39.7
Shipping Weight		kg	42.7		
Net Dimensions (WxHxD)		mm	880 x 638 x 310		
Shipping Dimensions (WxHxD)		mm	1,023 x 724 x 413		
Casing	Material	Body	-	EGI Steel Plate / PP	
		Cooling		°C	-10 ~ 46
Operating Temp. Range	Heating		°C	-15 ~ 24	

### NOTE

- Specifications may be subject to change without prior notice.
- 1) Nominal cooling capacities are based on;  
Indoor temperature: 27°C DB, 19°C WB  
Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - 2) Nominal heating capacities are based on;  
Indoor temperature: 20°C DB, 15°C WB  
Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - 3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - 4) These products contain R32 which is fluorinated greenhouse gas.

# 1. Specification

## AR7500

	Model Name	Indoor Unit		AR09TXFCAWKNEU	AR12TXFCAWKNEU	
		Outdoor Unit		AR09TXFCAWKXEU	AR12TXFCAWKXEU	
System	Mode			-	HEAT PUMP	HEAT PUMP
	Performance	Capacity (Min/Std/Max)	Cooling	kW	0.9 / 2.5 / 3.35	0.9 / 3.5 / 4
				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	0.205 / 0.70 / 1.03	0.205 / 1.22 / 1.4
			Heating	kW	0.20 / 0.84 / 1.27	0.20 / 0.94 / 1.45
		Current Input (Min/Std/Max)	Cooling	A	1.3 / 3.6 / 4.7	1.3 / 5.6 / 6.3
			Heating	A	1.4 / 4.0 / 5.6	1.4 / 4.5 / 6.4
	Efficiency	EER	Cooling	-	3.57	2.87
		COP	Heating	-	3.81	3.72
		SEER (Cooling Energy Grade)		-	6.70 (A++)	6.50 (A++)
		SCOP (Heating Energy Grade)		-	4.00 (A+)	4.00 (A+)
		Pdesignh		kW	2.1	2.2
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Installation Limitation	Max. Length (Outdoor to indoor)	m	15	15
	Max. Height (Between ID/OD)			m	8	8
		Wiring connections	Power Source Wire		mm <sup>2</sup>	1.5
	Communication		Min.	mm <sup>2</sup>	0.75	0.75
Remark		-	F1, F2	F1, F2		
Refrigerant	Type		-	R32	R32	
	Factory Charging		kg	0.7	0.7	
			tCO <sub>2</sub> e	0.47	0.47	
Indoor Unit	Power Supply			Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50
	Heat Exchanger	Type		-	F&T	F&T
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	
	Fan	Type		-	Cross Flow	Cross Flow
		Quantity		EA	1	1
		Air Flow Rate	Cooling (T/H/M/L)	m <sup>3</sup> /min	10.3 / 9.8 / 9.3 / 8.4	10.7 / 10.3 / 9.3 / 8.4
				l/s	172 / 163 / 155 / 140	178 / 172 / 155 / 140
		Heating (T/H/M/L)	m <sup>3</sup> /min	11.2 / 10.7 / 10.3 / 9.3	11.7 / 11.2 / 10.3 / 9.3	
			l/s	187 / 178 / 172 / 155	195 / 187 / 172 / 155	
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	27 x 1	27 x 1
	Drain	Drain Pipe		Φ, mm	Φ16.3, 550mm	Φ16.3, 550mm
	Sound	Sound Pressure Level	H / Silent	dB(A)	37 / 19	38 / 19
				dB(A)	54	56
	External Dimension	Net Weight		kg	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
		Infrared remote control		-	Included	Included
	Control System	Wired remote control		-	MWR-WE13N MWR-WG00JN MWR-WG00KN MWR-SH11N	MWR-WE13N MWR-WG00JN MWR-WG00KN MWR-SH11N
		Drain Pump		-	-	-
	Additional Accessories	Max. lifting Height / Displacement		mm / Liter/h	-	-
		Drain Pump	External Model	-	-	-
			Internal Model	-	-	-
Max. lifting Height / Displacement		mm / Liter/h	-	-	-	
		-	-	Removable / Washable	Removable / Washable	
Easy Filter Plus		-	-	-		
Tri-Care Filter		-	-	-		
Motion Detect Sensor		-	-	-		
Wi-Fi		-	○	○		

# 1. Specification

## AR7500

	Indoor Unit		AR09TXFCAWKNEU	AR12TXFCAWKNEU
	Outdoor Unit		AR09TXFCAWKXEU	AR12TXFCAWKXEU
Outdoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50
	Heat Exchanger		Type	F&T
	Material	Fin	-	Al
		Tube	-	Cu
	Fin Treatment		-	Anti-Corrosion
	Compressor		Model Name	UB1AR5090FJ6
	Type		-	BLDC ROTARY
	Output		kW	2.8
	Oil	Type	-	POE
		Initial charge	cc	260
	Fan		Type	Propeller
	Discharge direction		-	Front
	Quantity		EA	1
	Air Flow Rate		m <sup>3</sup> /min	28
			l/s	467
	Fan Motor		Type	BLDC
	Output		W x n	40 x 1
	Sound	Sound Pressure Level	Cooling	46
			dB(A)	47
	Sound Power Level		dB(A)	63
External Dimension		Net Weight	23.0	
Shipping Weight		kg	25.0	
Net Dimensions (WxHxD)		mm	660 x 475 x 242	
Shipping Dimensions (WxHxD)		mm	778 x 550 x 331	
Casing		Material	EGI Steel Plate / PP	
Operating Temp. Range	Cooling		°C	-10 ~ 46
	Heating		°C	-15 ~ 24

### NOTE

- Specifications may be subject to change without prior notice.
- 1) Nominal cooling capacities are based on;  
Indoor temperature: 27°C DB, 19°C WB  
Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - 2) Nominal heating capacities are based on;  
Indoor temperature: 20°C DB, 15°C WB  
Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - 3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - 4) These products contain R32 which is fluorinated greenhouse gas.

# 1. Specification

## AR7500

	Model Name	Indoor Unit		AR18TXFCAWKNEU	AR24TXFCAWKNEU	
		Outdoor Unit		AR18TXFCAWKXEU	AR24TXFCAWKXEU	
System	Mode			HEAT PUMP	HEAT PUMP	
	Performance	Capacity (Min/Std/Max)	Cooling	kW	1.6 / 5.0 / 6.7	1.4 / 6.5 / 7.6
				Btu/h	5,459 / 17,061 / 22,861	4,777 / 22,179 / 25,932
		Heating		kW	1.3 / 6.0 / 8	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 / 1.71 / 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	-	3.51	3.15
		SEER (Cooling Energy Grade)		-	6.80 (A++)	6.40 (A++)
		SCOP (Heating Energy Grade)		-	3.80 (A)	3.80 (A)
		Pdesignh		kW	3.8	4.1
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	12.7 (1/2)	15.88 (5/8)
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Installation Limitation	Max. Length (Outdoor to indoor)	m	30	30
Max. Height (Between ID/OD)	m			15	15	
	Wiring connections	Power Source Wire		mm <sup>2</sup>	2.5	2.5
Communication		Min.	mm <sup>2</sup>	0.75	0.75	
	Remark		-	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	
	Factory Charging		kg	1.3	1.15	
			tCO <sub>2</sub> e	0.88	0.78	
Indoor Unit	Power Supply		Ø, #, V, Hz	1,220-240,50	1,220-240,50	
	Heat Exchanger	Type		-	F&T	F&T
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	
	Fan	Type		-	Cross Flow	Cross Flow
		Quantity		EA	1	1
		Air Flow Rate	Cooling (T/H/M/L)	m <sup>3</sup> /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)	m <sup>3</sup> /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
	External Dimension	Net Weight		kg	11.5	11.6
		Shipping Weight		kg	13.7	13.8
		Net Dimensions (WxHxD)		mm	1,055 x 299 x 215	1,055 x 299 x 215
		Shipping Dimensions (WxHxD)		mm	1,115 x 290 x 375	1,115 x 290 x 375
	Casing	Material		-	HIPS	HIPS
		Infrared remote control		-	Included	Included
	Control System	Wired remote control		-	MWR-WE13N	MWR-WE13N
				-	MWR-WG00JN	MWR-WG00JN
				-	MWR-WG00KN	MWR-WG00KN
				-	MWR-SH11N	MWR-SH11N
	Drain Pump	Drain Pump		-	-	-
Max. lifting Height / Displacement		mm / Liter/h	-	-		
Additional Accessories	Drain Pump	External Model	-	-	-	
		Internal Model	-	-	-	
		Max. lifting Height / Displacement	mm / Liter/h	-	-	
	Easy Filter Plus		-	Removable / Washable	Removable / Washable	
	Tri-Care Filter		-	-	-	
Motion Detect Sensor		-	-	-		
Wi-Fi		-	○	○		

# 1. Specification

## AR7500

	Indoor Unit		AR18TXFCAWKNEU	AR24TXFCAWKNEU
	Outdoor Unit		AR18TXFCAWKXEU	AR24TXFCAWKXEU
Power Supply			Ø, #, V, Hz	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
	Oil	Type	-	POE
Initial charge		cc	500	
Fan	Type		Propeller	Propeller
	Discharge direction		Front	Front
	Quantity		EA	1
	Air Flow Rate			m <sup>3</sup> /min
		l/s	833	
Fan Motor	Type		BLDC	BLDC
	Output		W x n	40 x 1
Sound	Sound Pressure Level	Cooling	dB(A)	51
				54
		Sound Power Level	dB(A)	65
External Dimension	Net Weight		kg	39.7
	Shipping Weight		kg	42.7
	Net Dimensions (WxHxD)		mm	880 x 638 x 310
	Shipping Dimensions (WxHxD)		mm	1,023 x 724 x 413
Casing	Material	Body	-	EGI Steel Plate / PP
				EGI Steel Plate / PP
Operating Temp. Range	Cooling		°C	-10 ~ 46
	Heating		°C	-15 ~ 24

### NOTE

- 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

	Model Name	Indoor Unit		AR09TXFYAWKNEU	AR12TXFYAWKNEU	
		Outdoor Unit		AR09TXFYAWKXEU	AR12TXFYAWKXEU	
System	Mode			HEAT PUMP	HEAT PUMP	
	Performance	Capacity (Min/Std/Max)	Cooling	kW	0.9 / 2.5 / 3.35	0.9 / 3.5 / 4
				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	0.205 / 0.70 / 1.03	0.205 / 1.22 / 1.4
			Heating	kW	0.20 / 0.84 / 1.27	0.20 / 0.94 / 1.45
		Current Input (Min/Std/Max)	Cooling	A	1.3 / 3.6 / 4.7	1.3 / 5.6 / 6.3
			Heating	A	1.4 / 4.0 / 5.6	1.4 / 4.5 / 6.4
	Efficiency	EER	Cooling	-	3.57	2.87
		COP	Heating	-	3.81	3.72
		SEER (Cooling Energy Grade)		-	6.70 (A++)	6.50 (A++)
		SCOP (Heating Energy Grade)		-	4.00 (A+)	4.00 (A+)
		Pdesignh		kW	2.1	2.2
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	9.52 (3/8)	9.52 (3/8)
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Installation Limitation	Max. Length (Outdoor to indoor)	m	15	15
Max. Height (Between ID/OD)	m			8	8	
Wiring connections	Power Source Wire		mm <sup>2</sup>	1.5	1.5	
	Communication	Min.	mm <sup>2</sup>	0.75	0.75	
		Remark	-	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	
	Factory Charging		kg	0.7	0.7	
			tCO <sub>2</sub> e	0.47	0.47	
Indoor Unit	Power Supply		Ø, #, V, Hz	1,220-240,50	1,220-240,50	
	Heat Exchanger	Type		-	F&T	F&T
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	
	Fan	Type		-	Cross Flow	Cross Flow
		Quantity		EA	1	1
		Air Flow Rate	Cooling (T/H/M/L)	m <sup>3</sup> /min	10.3 / 9.8 / 9.3 / 8.4	10.7 / 10.3 / 9.3 / 8.4
				l/s	172 / 163 / 155 / 140	178 / 172 / 155 / 140
		Heating (T/H/M/L)	m <sup>3</sup> /min	11.2 / 10.7 / 10.3 / 9.3	11.7 / 11.2 / 10.3 / 9.3	
			l/s	187 / 178 / 172 / 155	195 / 187 / 172 / 155	
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	27 x 1	27 x 1
	Drain	Drain Pipe		Φ, mm	Φ16.3, 550mm	Φ16.3, 550mm
	Sound	Sound Pressure Level	H / Silent	dB(A)	37 / 19	38 / 19
				dB(A)	54	56
	External Dimension	Net Weight		kg	9.1	9.1
		Shipping Weight		kg	11.1	11.1
		Net Dimensions (WxHxD)		mm	820 x 299 x 215	820 x 299 x 215
		Shipping Dimensions (WxHxD)		mm	880 x 290 x 375	880 x 290 x 375
	Casing	Material		-	HIPS	HIPS
		Infrared remote control		-	Included	Included
	Control System	Wired remote control		-	MWR-WE13N	MWR-WE13N
				-	MWR-WG00JN	MWR-WG00JN
				-	MWR-WG00KN	MWR-WG00KN
				-	MWR-SH11N	MWR-SH11N
	Drain Pump	Drain Pump		-	-	-
Max. lifting Height / Displacement		mm / Liter/h	-	-		
Additional Accessories	Drain Pump	External Model	-	-	-	
		Internal Model	-	-	-	
		Max. lifting Height / Displacement	mm / Liter/h	-	-	
	Easy Filter Plus		-	Removable / Washable	Removable / Washable	
	Tri-Care Filter		-	-	-	
Motion Detect Sensor		-	-	-		
Wi-Fi		-	○	○		

# 1. Specification

## AR5500

	Indoor Unit		AR09TXFYAWKNEU	AR12TXFYAWKNEU	
	Outdoor Unit		AR09TXFYAWKXEU	AR12TXFYAWKXEU	
Outdoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	
	Heat Exchanger	Type	-	F&T	
		Material	Fin	-	Al
			Tube	-	Cu
		Fin Treatment		-	Anti-Corrosion
	Compressor	Model Name		UB1AR5090FJ6	
		Type		BLDC ROTARY	
		Output		kW	2.8
		Oil	Type	-	POE
	Initial charge		cc	260	
	Fan	Type		Propeller	
		Discharge direction		Front	
		Quantity		EA	1
		Air Flow Rate		m <sup>3</sup> /min	28
	l/s			467	
	Fan Motor	Type		BLDC	
		Output		W x n	40 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	46
			dB(A)	63	
	External Dimension	Net Weight		kg	22.6
Shipping Weight		kg	24.3		
Net Dimensions (WxHxD)		mm	660 x 475 x 242		
Shipping Dimensions (WxHxD)		mm	778 x 550 x 331		
Casing	Material	Body	-	EGI Steel Plate / PP	
		Cooling	°C	-10 ~ 46	
Operating Temp. Range	Heating		°C	-15 ~ 24	

### NOTE

- Specifications may be subject to change without prior notice.
- 1) Nominal cooling capacities are based on;  
Indoor temperature: 27°C DB, 19°C WB  
Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - 2) Nominal heating capacities are based on;  
Indoor temperature: 20°C DB, 15°C WB  
Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - 3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - 4) These products contain R32 which is fluorinated greenhouse gas.



# 1. Specification

## AR5500

	Model Name	Indoor Unit		AR18TXFYAWKNEU	AR24TXFYAWKNEU	
		Outdoor Unit		AR18TXFYAWKXEU	AR24TXFYAWKXEU	
System	Mode			HEAT PUMP	HEAT PUMP	
	Performance	Capacity (Min/Std/Max)	Cooling	kW	1.6 / 5.0 / 6.7	1.4 / 6.5 / 7.6
				Btu/h	5,459 / 17,061 / 22,861	4,777 / 22,179 / 25,932
		Heating		kW	1.3 / 6.0 / 8.0	1.2 / 7.4 / 9.4
				Btu/h	4,436 / 20,473 / 27,297	4,095 / 25,250 / 32,074
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.32 / 1.39 / 2.18	0.3 / 1.95 / 2.6
			Heating	kW	0.27 / 1.7 / 2.5	0.27 / 2.35 / 3.3
		Current Input (Min/Std/Max)	Cooling	A	2 / 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)	3.80 (A)
		Pdesignh		kW	3.8	4.1
	Piping Connections	Liquid Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	6.35 (1/4)	6.35 (1/4)
		Gas Pipe		Type	Flare connection	Flare connection
				Φ, mm (inch)	12.7 (1/2)	15.88 (5/8)
		Heat Insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Installation Limitation	Max. Length (Outdoor to indoor)	m	30	30
	Max. Height (Between ID/OD)			m	15	15
		Wiring connections	Power Source Wire		mm <sup>2</sup>	2.5
	Communication		Min.	mm <sup>2</sup>	0.75	0.75
Remark			-	F1, F2	F1, F2	
Refrigerant	Type		-	R32	R32	
	Factory Charging		kg	1.3	1.15	
			tCO <sub>2</sub> e	0.88	0.78	
Indoor Unit	Power Supply		Ø, #, V, Hz	1,2,220-240,50	1,2,220-240,50	
	Heat Exchanger	Type		-	F&T	F&T
		Material	Fin	-	Al	Al
			Tube	-	Cu	Cu
		Fin Treatment		-	Green Hydrophile	Green Hydrophile
	Fan	Type		-	Cross Flow	Cross Flow
		Quantity		EA	1	1
		Air Flow Rate	Cooling (T/H/M/L)	m <sup>3</sup> /min	16.5 / 15.8 / 14.4 / 13	17.2 / 15.8 / 14.4 / 13
				l/s	275 / 263 / 240 / 216.7	286.7 / 263 / 240 / 216.7
			Heating (T/H/M/L)	m <sup>3</sup> /min	16.5 / 15.8 / 14.4 / 13	17.9 / 16.5 / 15.1 / 13.7
			l/s	275 / 263 / 240 / 216.7	298.3 / 275 / 251.7 / 228.3	
	Fan Motor	Type		-	BLDC	BLDC
		Output		W x n	27 x 1	27 x 1
	Drain	Drain Pipe		Φ, mm	Φ16.3, 550mm	Φ16.3, 550mm
	Sound	Sound Pressure Level	H / Silent	dB(A)	41 / 25	45 / 26
				Sound Power Level	dB(A)	58
	External Dimension	Net Weight		kg	11.5	11.6
		Shipping Weight		kg	13.7	13.8
		Net Dimensions (WxHxD)		mm	1,055 x 299 x 215	1,055 x 299 x 215
		Shipping Dimensions (WxHxD)		mm	1,115 x 290 x 375	1,115 x 290 x 375
	Casing	Material		-	HIPS	HIPS
		Infrared remote control		-	Included	Included
	Control System	Wired remote control		-	MWR-WE13N	MWR-WE13N
-				MWR-WG00JN	MWR-WG00JN	
-				MWR-WG00KN	MWR-WG00KN	
-				MWR-SH11N	MWR-SH11N	
Drain Pump	Drain Pump		-	-	-	
	Max. lifting Height / Displacement		mm / Liter/h	-	-	
Additional Accessories	Drain Pump	External Model	-	-	-	
		Internal Model	-	-	-	
		Max. lifting Height / Displacement	mm / Liter/h	-	-	
	Easy Filter Plus		-	Removable / Washable	Removable / Washable	
	Tri-Care Filter		-	-	-	
Motion Detect Sensor		-	-	-		
Wi-Fi		-	○	○		

# 1. Specification

## AR5500

	Indoor Unit		AR18TXFYAWKNEU	AR24TXFYAWKNEU	
	Outdoor Unit		AR18TXFYAWKXEU	AR24TXFYAWKXEU	
Outdoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	
	Heat Exchanger	Type	-	F&T	
		Material	Fin	-	Al
			Tube	-	Cu
		Fin Treatment		-	Anti-Corrosion
	Compressor	Model Name		UB9TK3150FE4	
		Type		BLDC ROTARY	
		Output		kW	4.69
		Oil	Type	-	POE
	Initial charge		cc	500	
	Fan	Type		Propeller	
		Discharge direction		Front	
		Quantity		EA	1
		Air Flow Rate		m <sup>3</sup> /min	50
	l/s			833	
	Fan Motor	Type		BLDC	
		Output		W x n	40 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	51
			Heating	dB(A)	54
			Sound Power Level	dB(A)	65
External Dimension	Net Weight		kg	39.7	
	Shipping Weight		kg	42.7	
	Net Dimensions (WxHxD)		mm	880 x 638 x 310	
	Shipping Dimensions (WxHxD)		mm	1,023 x 724 x 413	
Casing	Material	Body	-	EGI Steel Plate / PP	
		Cooling	°C	-10 ~ 46	
Operating Temp. Range	Heating		°C	-15 ~ 24	

### NOTE

- Specifications may be subject to change without prior notice.
- 1) Nominal cooling capacities are based on;  
Indoor temperature: 27°C DB, 19°C WB  
Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - 2) Nominal heating capacities are based on;  
Indoor temperature: 20°C DB, 15°C WB  
Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - 3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - 4) These products contain R32 which is fluorinated greenhouse gas.

# 1. Specification

## AR9500

	Model Name	Indoor Unit		AR09TXEAAWKNEU	AR12TXEAAWKNEU	AR18TXEAAWKNEU			
		Outdoor Unit		AR09TXEAAWKXEU	AR12TXEAAWKXEU	AR18TXEAAWKXEU			
System	Mode			-	HEAT PUMP	HEAT PUMP	HEAT PUMP		
	Performance	Capacity (Min/Std/Max)	Cooling	kW	0.96 / 2.5 / 3.35	0.99 / 3.5 / 4.0	1.6 / 5.0 / 6.7		
				Btu/h	3,276 / 8,530 / 11,431	3,378 / 11,942 / 13,649	5,459 / 17,061 / 22,861		
		Heating		kW	0.72 / 3.2 / 5.0	0.74 / 4.0 / 5.5	1.3 / 6.0 / 8		
				Btu/h	2,457 / 10,919 / 17,061	2,525 / 13,649 / 18,767	4,436 / 20,473 / 27,297		
	Power	Power Input (Min/Std/Max)	Cooling	kW	0.16 / 0.57 / 0.75	0.17 / 0.93 / 1.05	0.32 / 1.39 / 2.18		
			Heating	kW	0.14 / 0.76 / 1.40	0.14 / 1.07 / 1.56	0.27 / 1.7 / 2.5		
		Current Input (Min/Std/Max)	Cooling	A	1.2 / 3.4 / 3.8	1.3 / 4.5 / 5	2 / 6.4 / 10		
			Heating	A	1.0 / 3.7 / 6.1	1.0 / 5.1 / 6.8	1.7 / 7.8 / 11.5		
	Efficiency	EER	Cooling	-	4.39	3.76	3.6		
		COP	Heating	-	4.21	3.74	3.53		
		SEER (Cooling Energy Grade)		-	7.90 (A++)	7.30 (A++)	6.80 (A++)		
		SCOP (Heating Energy Grade)		-	4.60 (A++)	4.60 (A++)	4.10 (A+)		
		Pdesignh			kW	2.2	2.4	3.8	
	Piping Connections	Liquid Pipe	Type		Flare connection	Flare connection	Flare connection		
			Ø, mm (inch)		6.35 (1/4)	6.35 (1/4)	6.35 (1/4)		
		Gas Pipe	Type		Flare connection	Flare connection	Flare connection		
			Ø, mm (inch)		9.52 (3/8)	9.52 (3/8)	12.7 (1/2)		
		Heat Insulation				-	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
		Installation Limitation	Max. Length (Outdoor to indoor)			m	15	15	30
Max. Height (Between ID/OD)				m	8	8	15		
	Wiring connections	Power Source Wire		mm <sup>2</sup>	1.5	1.5	2.5		
Communication		Min.	mm <sup>2</sup>	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 <sub>2</sub> e	0.63	0.63	0.88	
Indoor Unit	Power Supply		Ø, #, V, Hz		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50		
	Heat Exchanger	Type				-	F&T	F&T	F&T
		Material	Fin Tube			-	Al	Al	Al
						-	Cu	Cu	Cu
	Fin Treatment				-	Green Hydrophile	Green Hydrophile	Green Hydrophile	
	Fan	Type				-	Cross Flow	Cross Flow	Cross Flow
		Quantity				EA	1	1	1
		Air Flow Rate	Cooling (T/H/M/L)			m <sup>3</sup> /min	9.5 / 9.0 / 8.5 / 7.4	10.5 / 10.0 / 9.0 / 7.9	15.7 / 14.5 / 13.2 / 11.3
						l/s	158 / 150 / 142 / 123	175 / 167 / 150 / 132	262 / 242 / 220 / 188
	Heating (T/H/M/L)			m <sup>3</sup> /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		Ø, mm		Ø16.3, 550mm	Ø16.3, 550mm	Ø16.3, 550mm	
	Sound	Sound Pressure Level	H / Silent			dB(A)	38 / 16	40 / 16	41 / 25
						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

	Model Name		Indoor Unit	AR09TXEAAWKNEU	AR12TXEAAWKNEU	AR18TXEAAWKNEU	
			Outdoor Unit	AR09TXEAAWKXEU	AR12TXEAAWKXEU	AR18TXEAAWKXEU	
Outdoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	
	Heat Exchanger	Type	-	F&T	F&T	F&T	
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
	Fin Treatment		-	Anti-Corrosion	Anti-Corrosion	Anti-Corrosion	
	Compressor	Model Name		-	UB1AR5090FE6	UB1AR5090FE6	UB9TK3150FE4
		Type		-	BLDC ROTARY	BLDC ROTARY	BLDC ROTARY
		Output		kW	2.8	2.8	4.69
		Oil	Type	-	POE	POE	POE
	Initial charge		cc	260	260	500	
	Fan	Type		-	Propeller	Propeller	Propeller
		Discharge direction		-	Front	Front	Front
		Quantity		EA	1	1	1
		Air Flow Rate		m <sup>3</sup> /min	45	45	50
	l/s			750	750	833	
	Fan Motor	Type		-	BLDC	BLDC	BLDC
		Output		W x n	40 x 1	40 x 1	40 x 1
	Sound	Sound Pressure Level	Cooling	dB(A)	45	46	51
			Sound Power Level	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	°C	-10 ~ 46	-10 ~ 46	-10 ~ 46
		Heating	°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	

### NOTE

- Specifications may be subject to change without prior notice.
- Nominal cooling capacities are based on;  
Indoor temperature: 27°C DB, 19°C WB  
Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - Nominal heating capacities are based on;  
Indoor temperature: 20°C DB, 15°C WB  
Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - These products contain R32 which is fluorinated greenhouse gas.

# 1. Specification

## AR9500

	Model Name	Indoor Unit		AR24TXEAAWKNEU	AR09TXCAAWKNEU	AR12TXCAAWKNEU		
		Outdoor Unit		AR24TXEAAWKXEU	AR09TXCAAWKXEU	AR12TXCAAWKXEU		
System	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 / 0.885 / 1.45	
			Heating	kW	0.27 / 2.35 / 3.20	0.15 / 0.675 / 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		mm <sup>2</sup>	1.5	1.5	1.5	
		Communication	Min.	mm <sup>2</sup>	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 <sub>2</sub> e	0.88	0.65	0.65		
Indoor Unit	Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	
	Heat Exchanger	Type		-	F&T	F&T	F&T	
		Material	Fin		-	Al	Al	Al
			Tube		-	Cu	Cu	Cu
	Fin Treatment		-	Green Hydrophile	Green Hydrophile	Green Hydrophile		
	Fan	Type		-	Cross Flow	Cross Flow	Cross Flow	
		Quantity		EA	1	1	1	
		Air Flow Rate	Cooling (T/H/M/L)	m <sup>3</sup> /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)	m <sup>3</sup> /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

	Model Name		Indoor Unit	AR24TXEAAWKNEU	AR09TXCAAWKNEU	AR12TXCAAWKNEU	
			Outdoor Unit	AR24TXEAAWKXEU	AR09TXCAAWKXEU	AR12TXCAAWKXEU	
Outdoor Unit	Power Supply		Ø, #, V, Hz	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	
	Heat Exchanger	Type		-	F&T	F&T	F&T
		Material	Fin	-	Al	Al	Al
			Tube	-	Cu	Cu	Cu
		Fin Treatment		-	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		m <sup>3</sup> /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
	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	
		Cooling		°C	-10 ~ 46	-10 ~ 46	-10 ~ 46
Operating Temp. Range	Heating		°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	

### NOTE

- Specifications may be subject to change without prior notice.
- 1) Nominal cooling capacities are based on;  
Indoor temperature: 27°C DB, 19°C WB  
Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - 2) Nominal heating capacities are based on;  
Indoor temperature: 20°C DB, 15°C WB  
Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m, Level differences: 0 m
  - 3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
  - 4) These products contain R32 which is fluorinated greenhouse gas.

# 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	2.98	2.49	1.02	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	4.20	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.

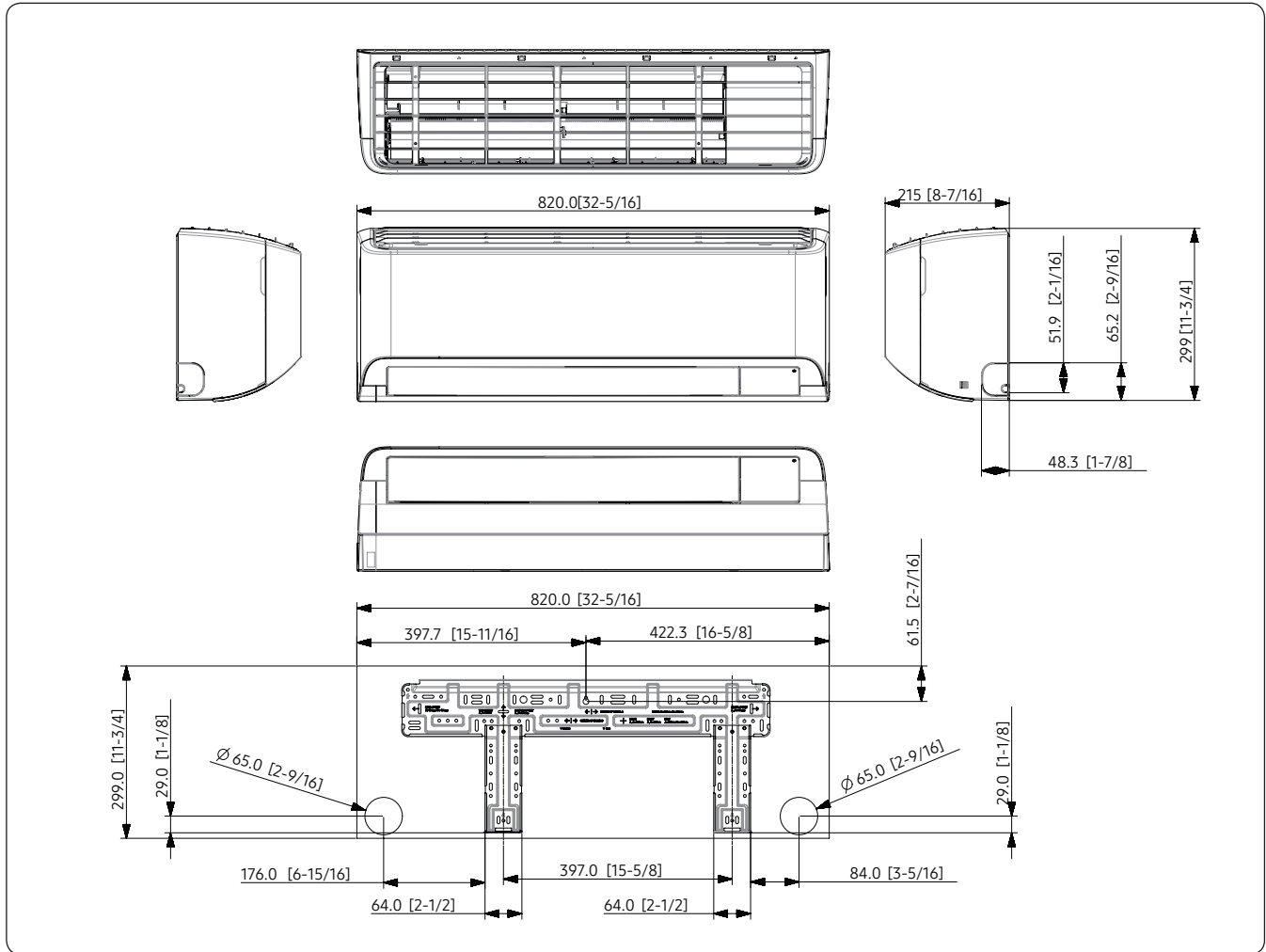


# 3. Dimensional Drawing

## Indoor units

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

Unit: mm (inches)

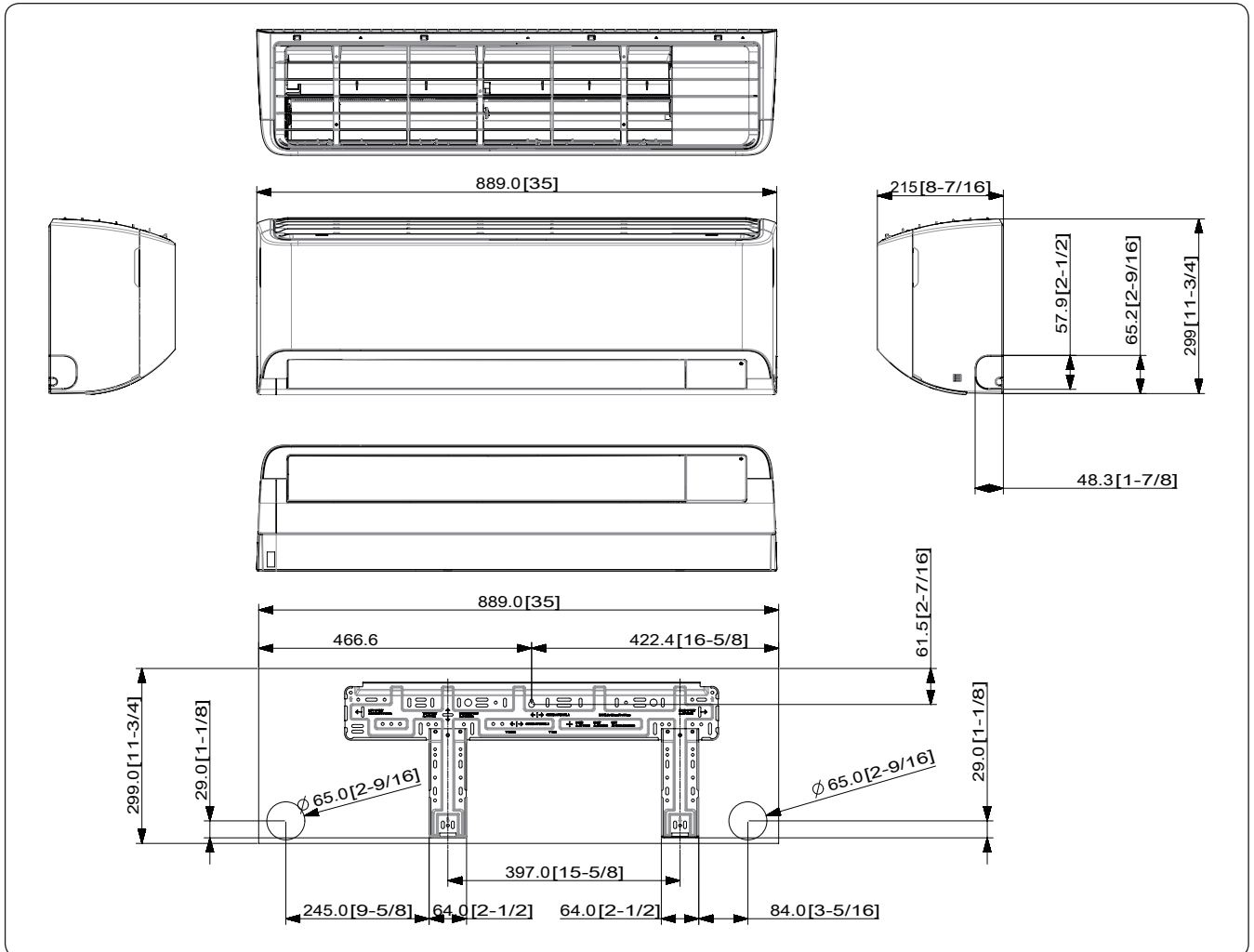


# 3. Dimensional Drawing

## Indoor units

AR9500 : AR09TXEAAWKNEU, AR12TXEAAWKNEU, AR09TXCAAWKNEU, AR12TXCAAWKNEU

Unit: mm (inches)



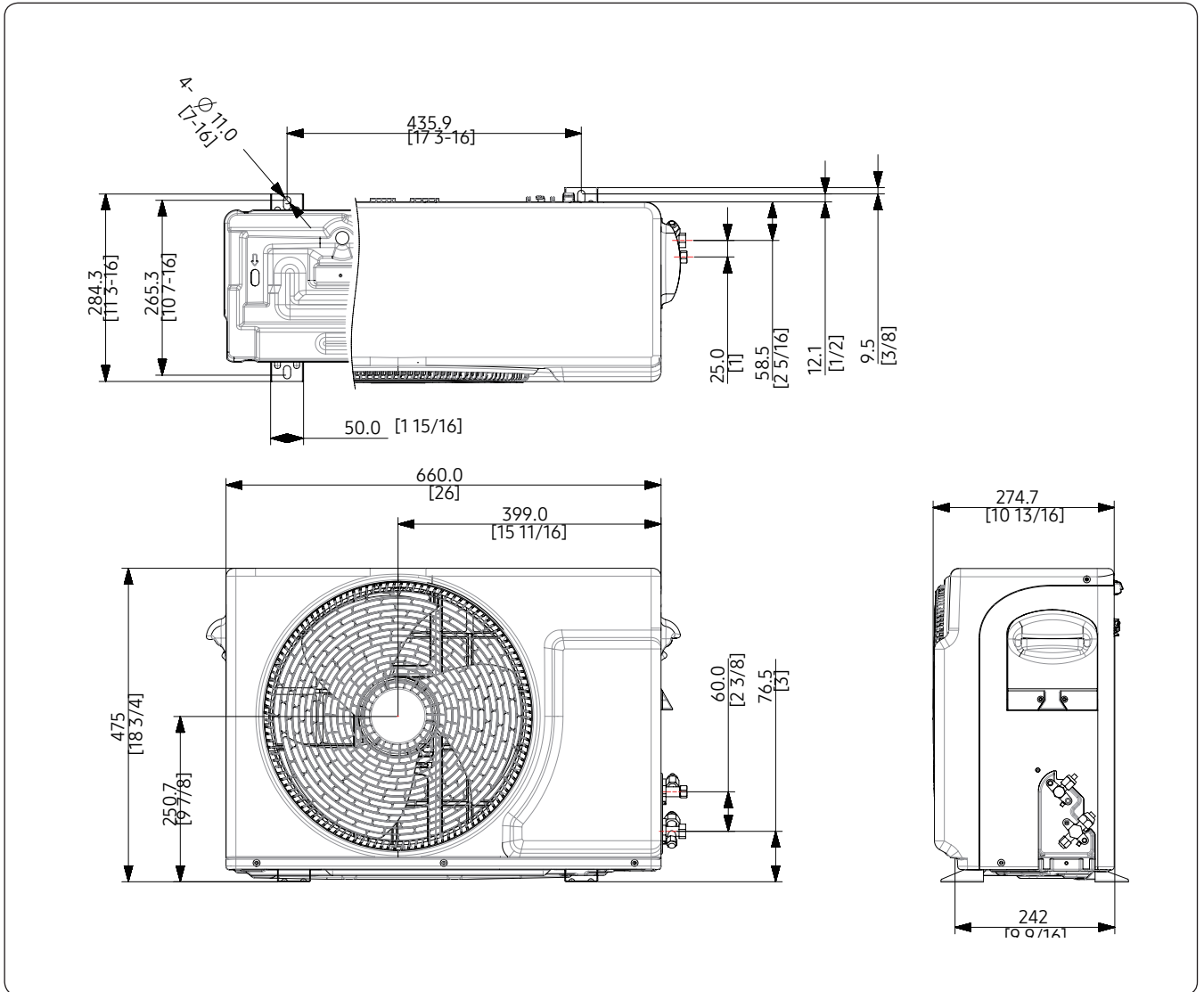


# 3. Dimensional Drawing

## Outdoor units

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

Unit: mm (inches)

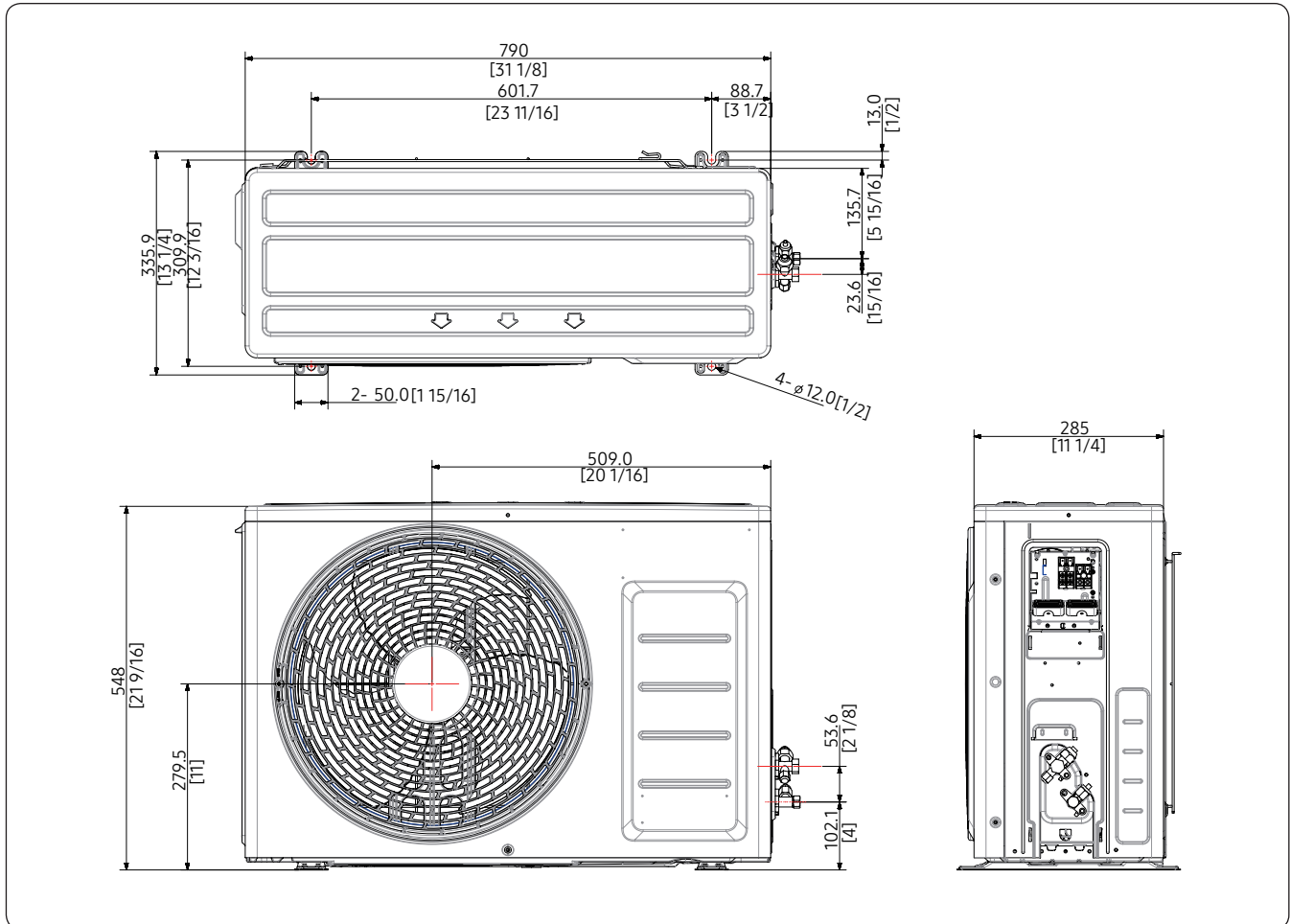


# 3. Dimensional Drawing

## Outdoor units

AR9500 : AR09TXEAAWKXEU, AR12TXEAAWKXEU, AR09TXCAAWKXEU, AR12TXCAAWKXEU

Unit: mm (inches)

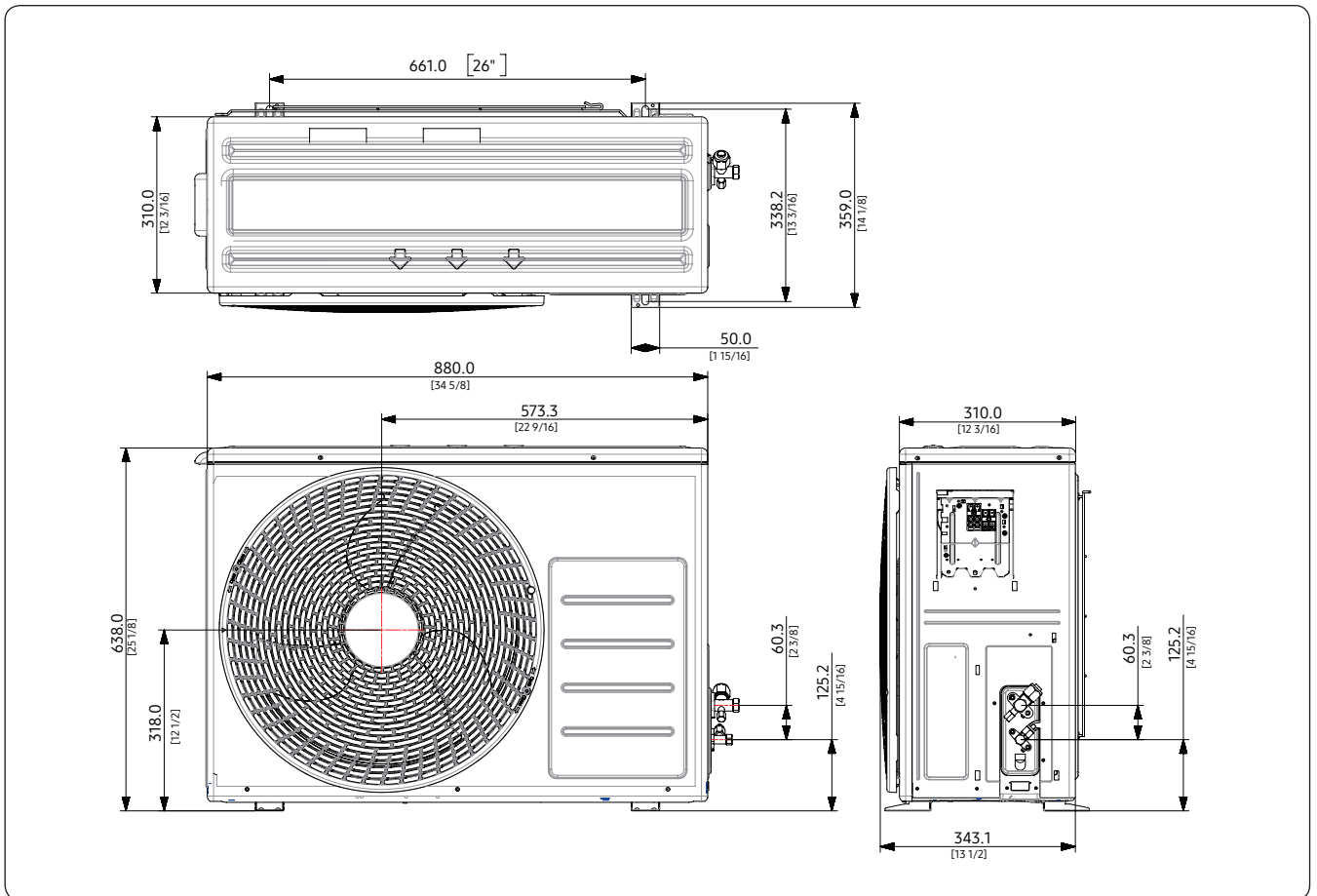


# 3. Dimensional Drawing

## Outdoor units

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

Unit: mm (inches)

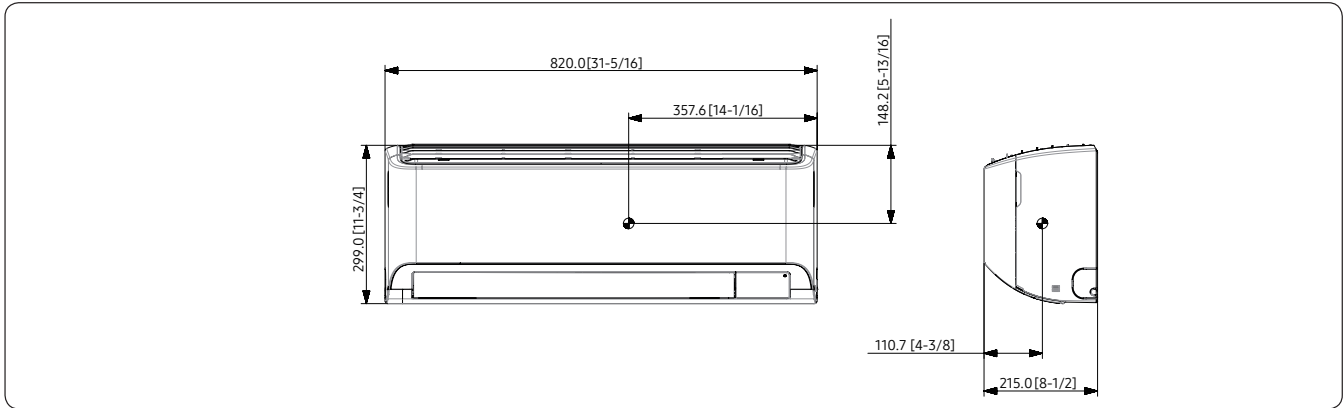


# 4. Center of Gravity

## Indoor units

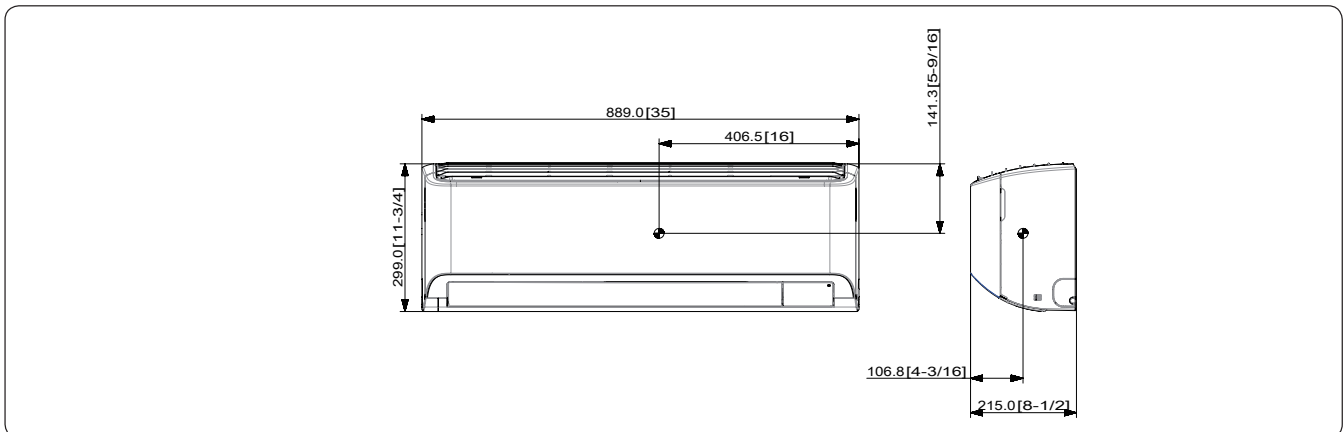
AR4500 : AR09TXHZAWKNEU, AR12TXHZAWKNEU  
 AR7500 : AR09TXFCAWKNEU, AR12TXFCAWKNEU  
 AR5500 : AR09TXFYAWKNEU, AR12TXFYAWKNEU

Unit: mm (inches)



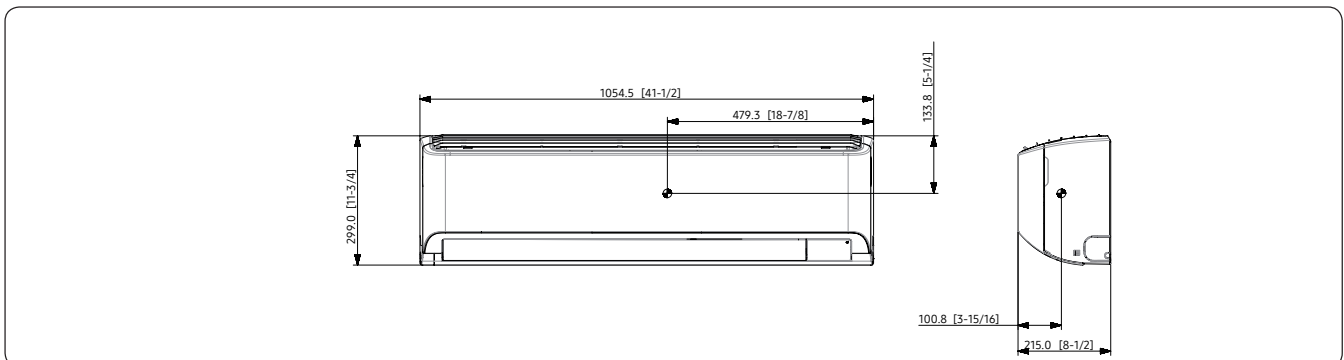
AR9500 : AR09TXEAAWKNEU, AR12TXEAAWKNEU, AR09TXCAAWKNEU, AR12TXCAAWKNEU

Unit: mm (inches)



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

Unit: mm (inches)

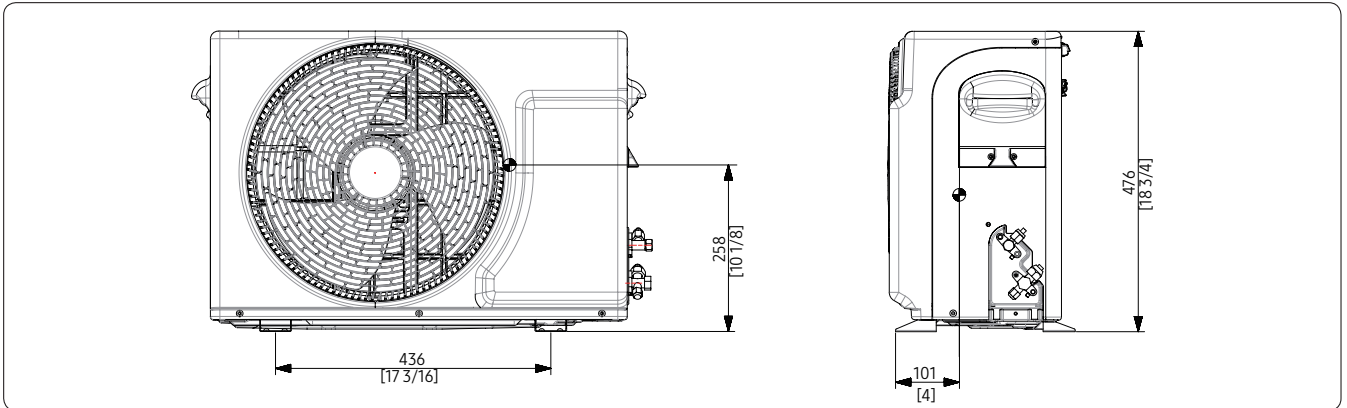


# 4. Center of Gravity

## Outdoor units

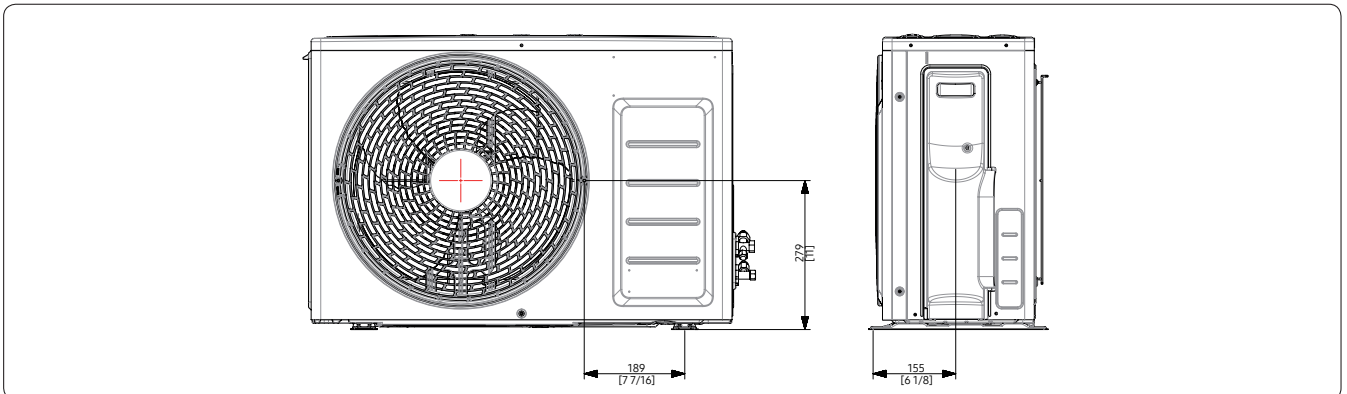
AR4500 : AR09TXHZAWKXEU, AR12TXHZAWKXEU  
 AR7500 : AR09TXFCAWKXEU, AR12TXFCAWKXEU  
 AR5500 : AR09TXFYAWKXEU, AR12TXFYAWKXEU

Unit: mm (inches)



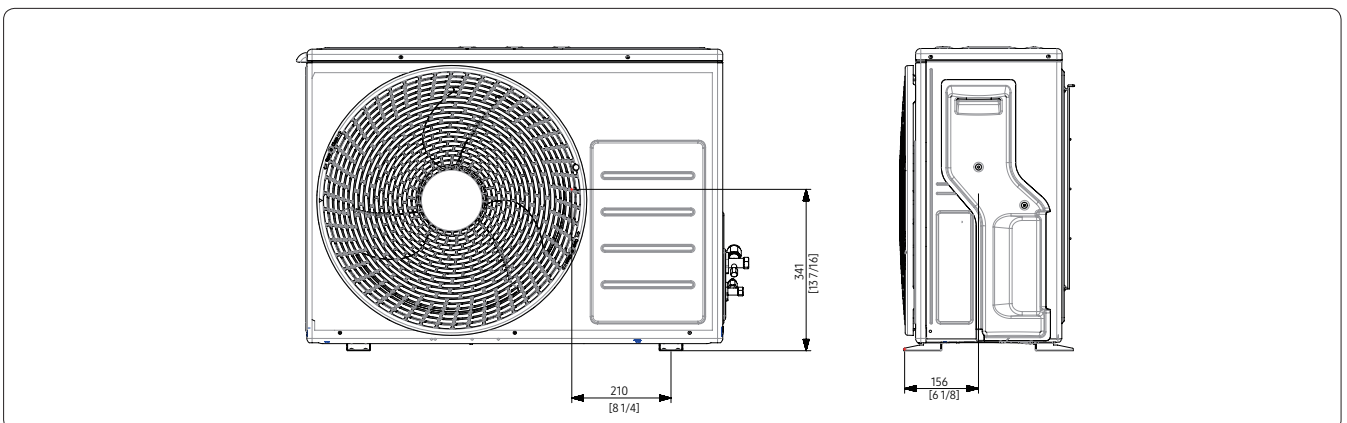
AR9500 : AR09TXEAAWKXEU, AR12TXEAAWKXEU, AR09TXCAAWKXEU, AR12TXCAAWKXEU

Unit: mm (inches)



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

Unit: mm (inches)







# 5. Electrical Wiring Diagram

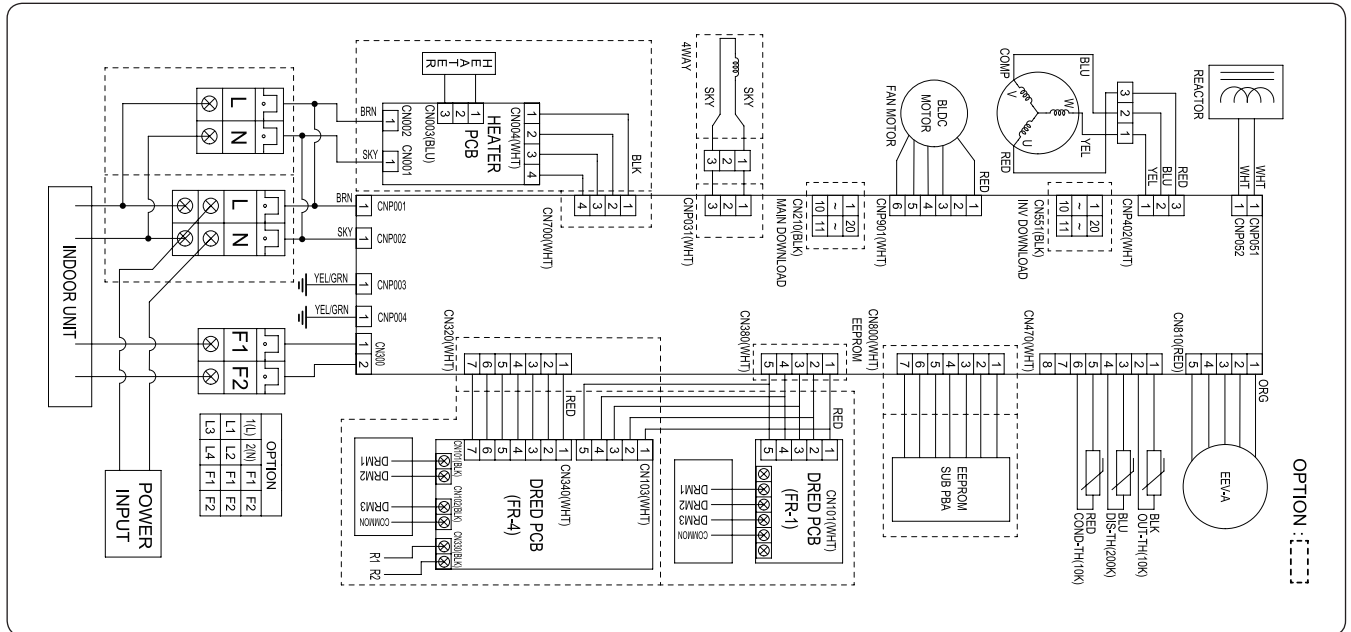
## Outdoor units

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		

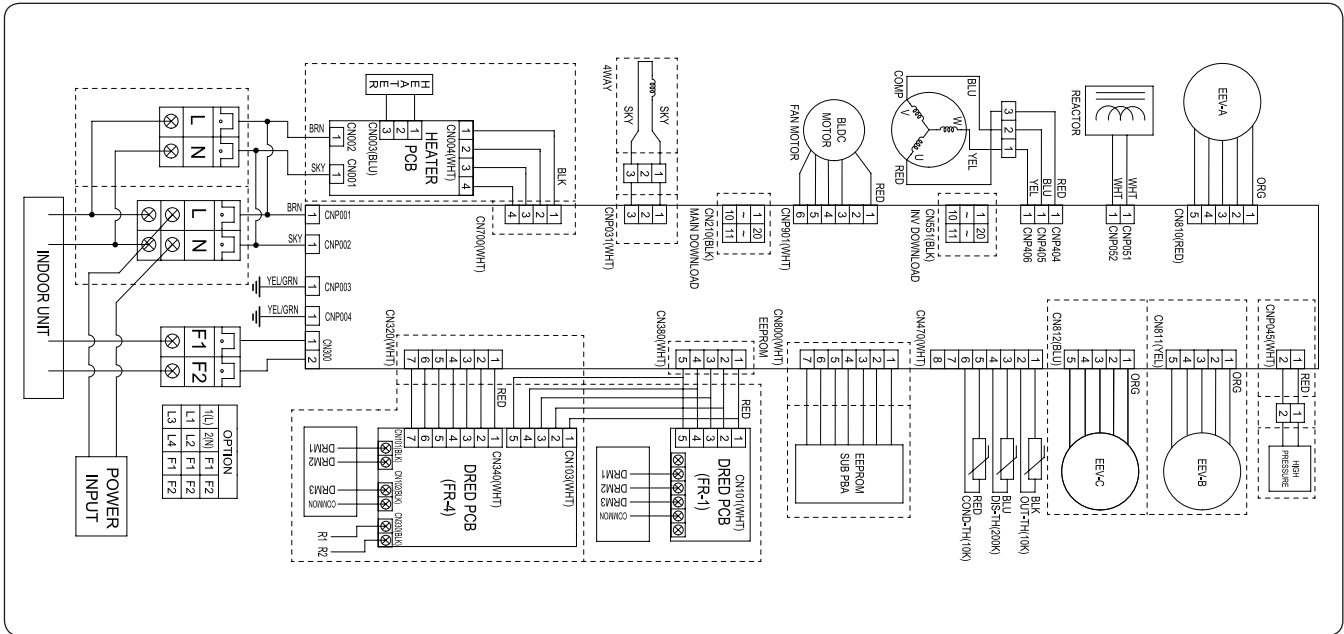
### NOTE

- 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

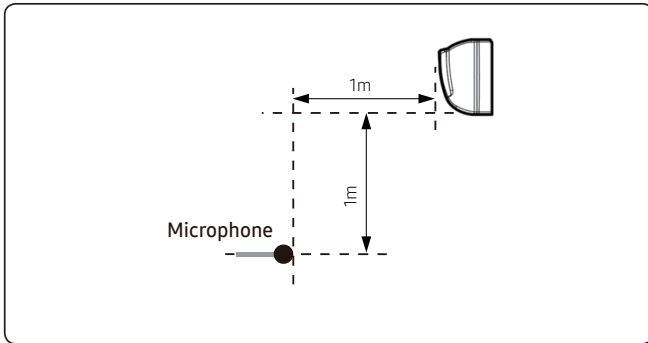
- This wiring diagram applies only to the outdoor unit.
- Colors BLK : black, BRN : brown, SKY-BLU : sky-blue, GRN/YEL : green/yellow, RED : red, YEL : yellow, ORG : orange, BLU : blue, WHT:white
-  Protective earth(screw)

# 6. Sound Data

## Indoor units : AR4500

### Sound Pressure level

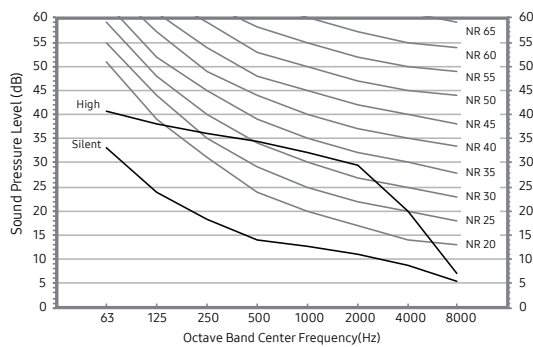
Unit: dB(A)



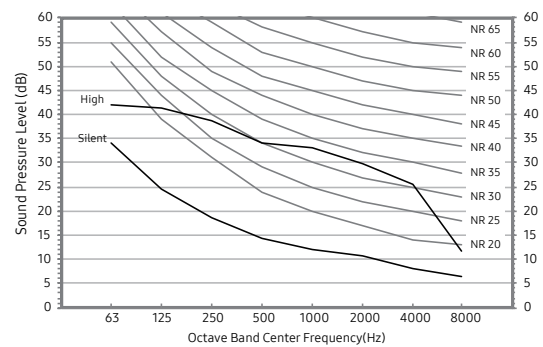
Model	Cooling	
	High	Silent
AR09TXHZAWKNEU	37	19
AR12TXHZAWKNEU	38	19
AR18TXHZAWKNEU	41	25
AR24TXHZAWKNEU	45	26

- NR Curve

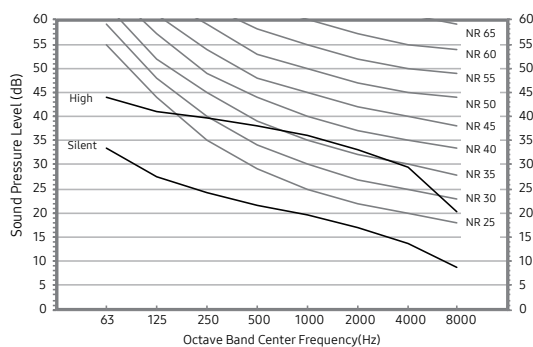
1) AR09TXHZAWKNEU



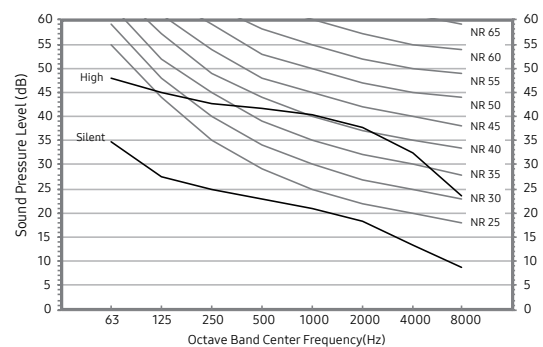
2) AR12TXHZAWKNEU



3) AR18TXHZAWKNEU



4) AR24TXHZAWKNEU



### NOTE

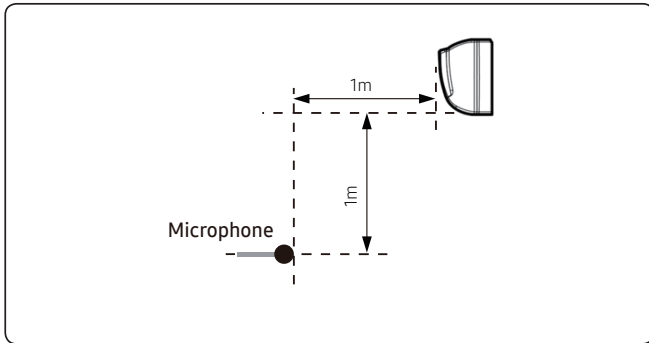
- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation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

# 6. Sound Data

## Indoor units : AR7500

### Sound Pressure level

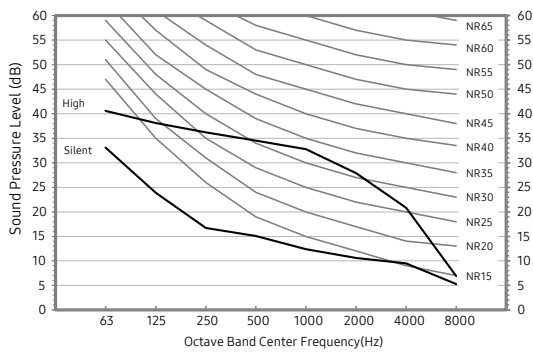
Unit: dB(A)



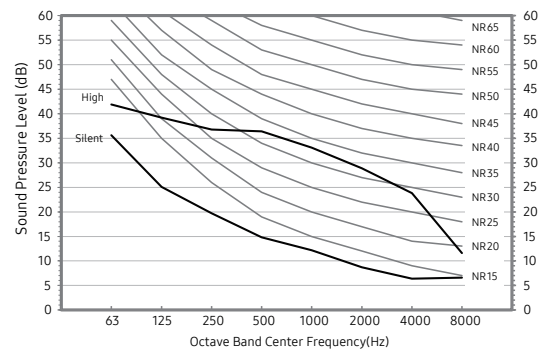
Model	Cooling	
	High	Silent
AR09TXFCAWKNEU	37	19
AR12TXFCAWKNEU	38	19
AR18TXFCAWKNEU	41	25
AR24TXFCAWKNEU	45	26

- NR Curve

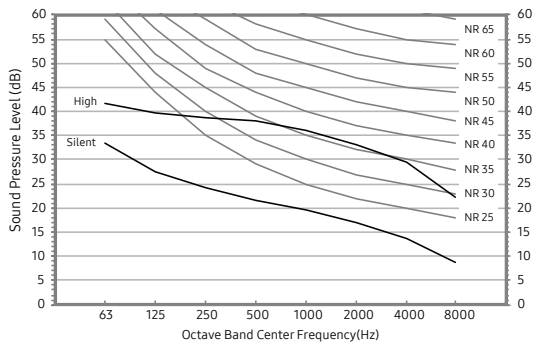
1) AR09TXFCAWKNEU



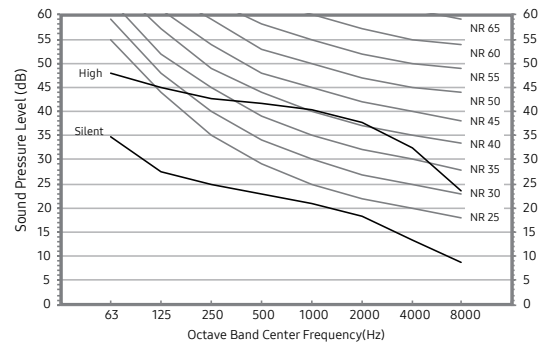
2) AR12TXFCAWKNEU



3) AR18TXFCAWKNEU



4) AR24TXFCAWKNEU



### NOTE

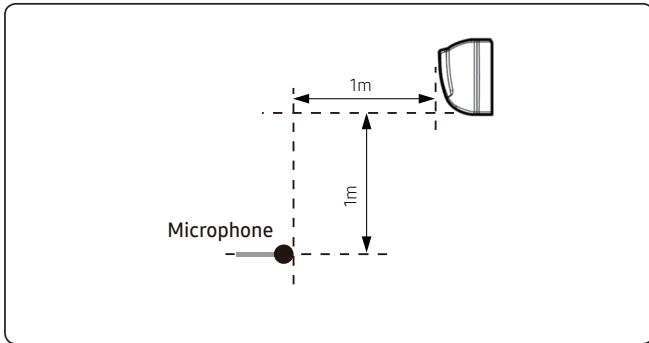
- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation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

# 6. Sound Data

Indoor units : AR5500

## Sound Pressure level

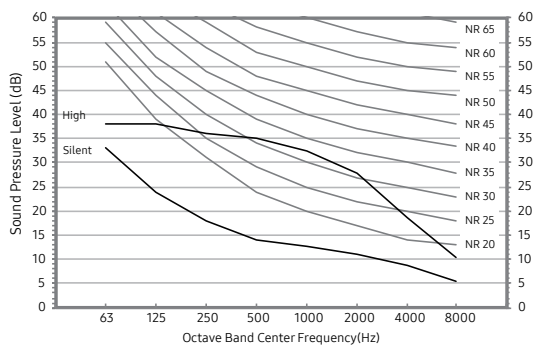
Unit: dB(A)



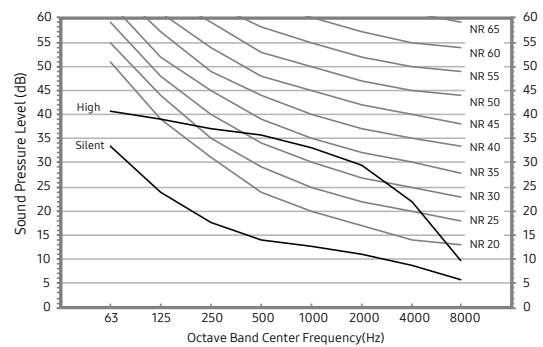
Model	Cooling	
	High	Silent
AR09TXFYAWKNEU	37	19
AR12TXFYAWKNEU	38	19
AR18TXFYAWKNEU	41	25
AR24TXFYAWKNEU	45	26

• NR Curve

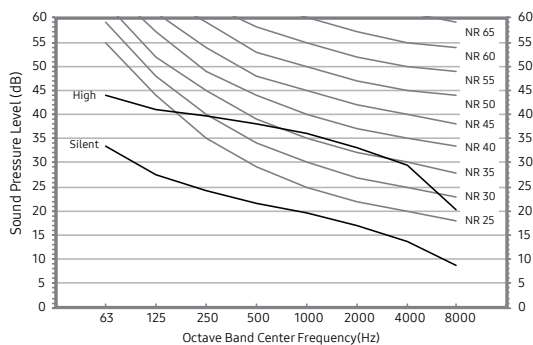
1) AR09TXFYAWKNEU



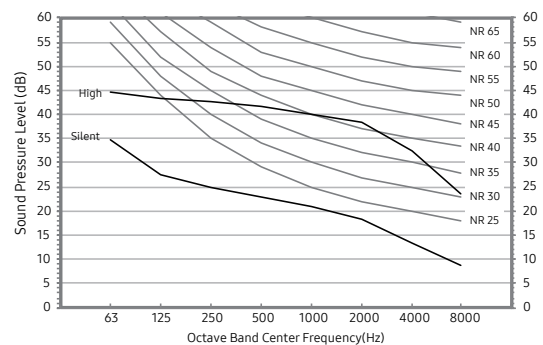
2) AR12TXFYAWKNEU



3) AR18TXFYAWKNEU



4) AR24TXFYAWKNEU



**NOTE**

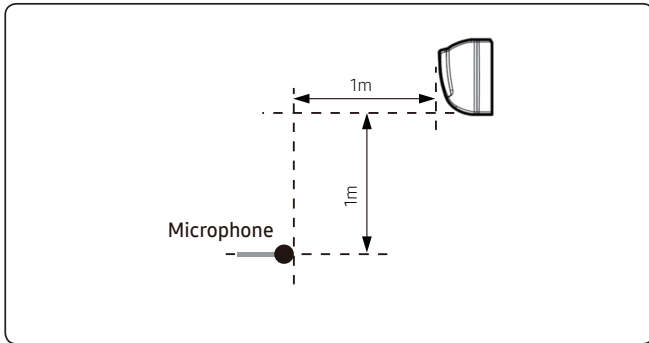
- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation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

# 6. Sound Data

## Indoor units : AR9500

### Sound Pressure level

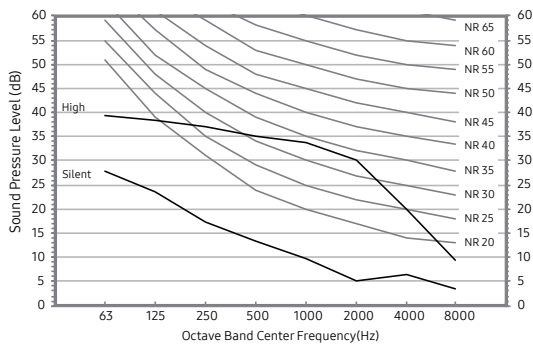
Unit: dB(A)



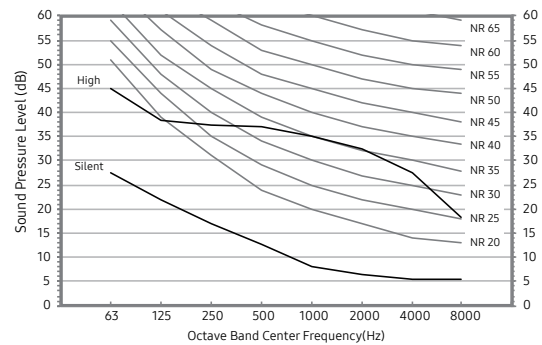
Model	Cooling	
	High	Silent
AR09TXEAAWKNEU	38	16
AR12TXEAAWKNEU	40	16
AR18TXEAAWKNEU	41	25
AR24TXEAAWKNEU	45	27

- NR Curve

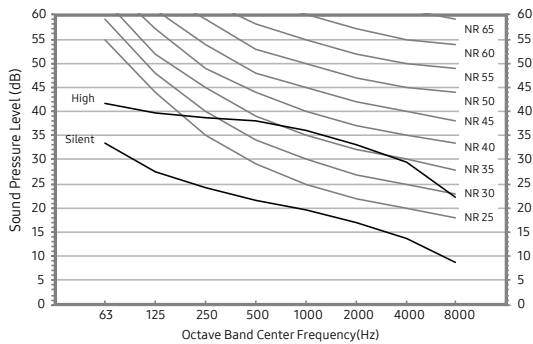
1) AR09TXEAAWKNEU



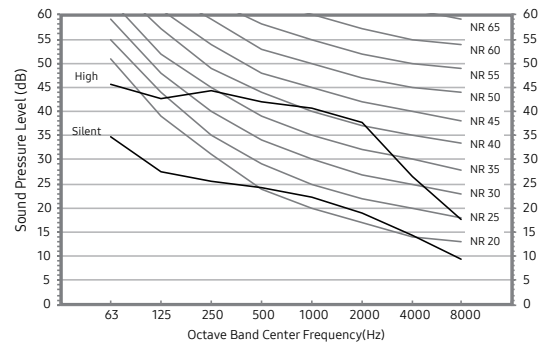
2) AR12TXEAAWKNEU



3) AR18TXEAAWKNEU



4) AR24TXEAAWKNEU



### NOTE

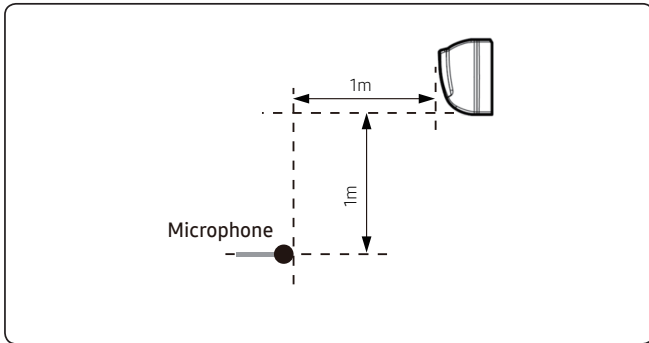
- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation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

# 6. Sound Data

Indoor units : AR9500

## Sound Pressure level

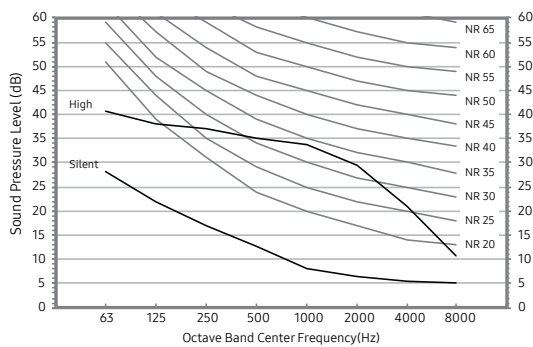
Unit: dB(A)



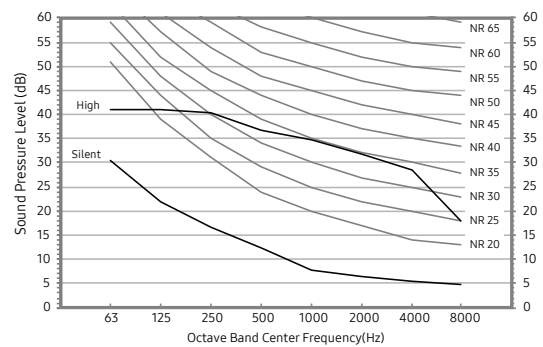
Model	Cooling	
	High	Silent
AR09TXCAAWKNEU	38	16
AR12TXCAAWKNEU	40	16

- NR Curve

1) AR09TXCAAWKNEU



2) AR12TXCAAWKNEU



**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

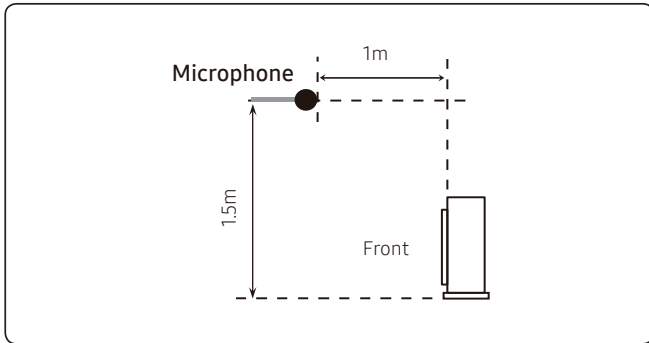


# 6. Sound Data

## Outdoor units

### Sound Pressure level

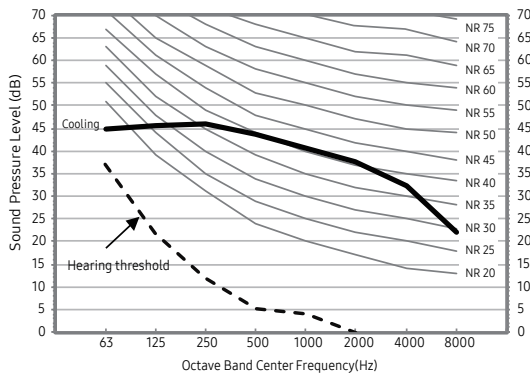
Unit: dB(A)



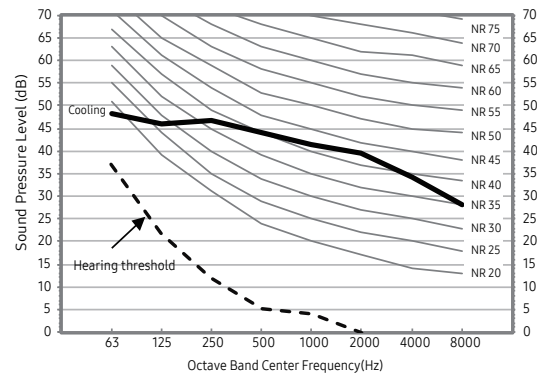
Model	Cooling
AR09TXHZAWKXEU	46
AR12TXHZAWKXEU	47
AR18TXHZAWKXEU	51
AR24TXHZAWKXEU	54

- NR Curve

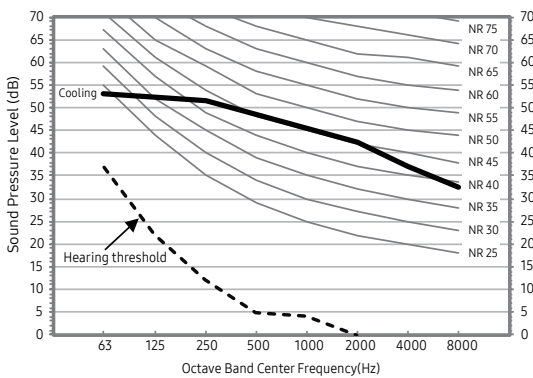
1) AR09TXHZAWKXEU



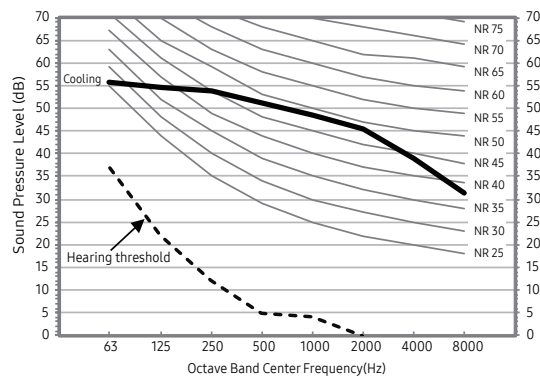
2) AR12TXHZAWKXEU



3) AR18TXHZAWKXEU



4) AR24TXHZAWKXEU



### NOTE

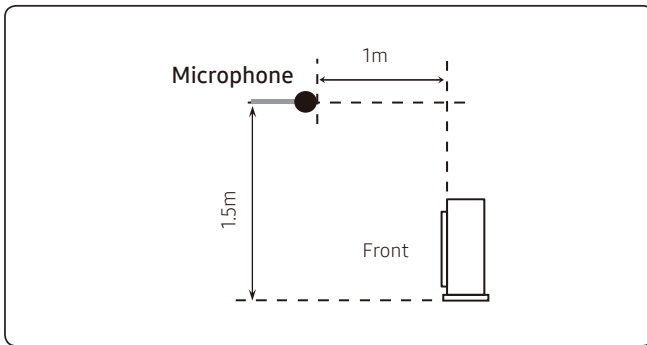
- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation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

# 6. Sound Data

## Outdoor units

### Sound Pressure level

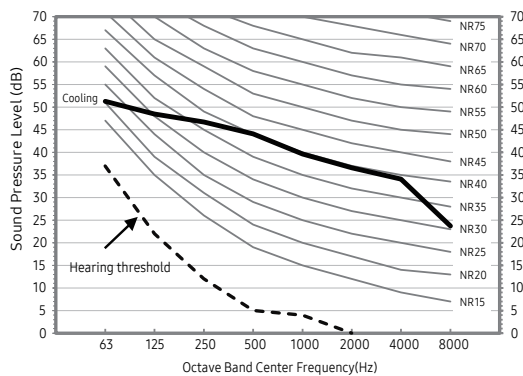
Unit: dB(A)



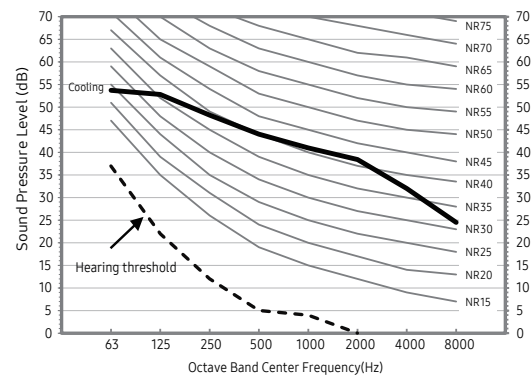
Model	Cooling
AR09TXFCAWKXEU	46
AR12TXFCAWKXEU	47
AR18TXFCAWKXEU	51
AR24TXFCAWKXEU	54

- NR Curve

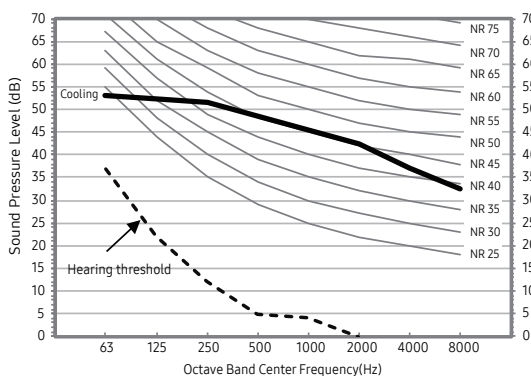
1) AR09TXFCAWKXEU



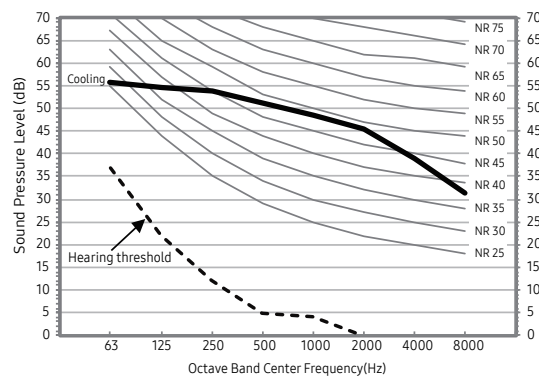
2) AR12TXFCAWKXEU



3) AR18TXFCAWKXEU



4) AR24TXFCAWKXEU



### NOTE

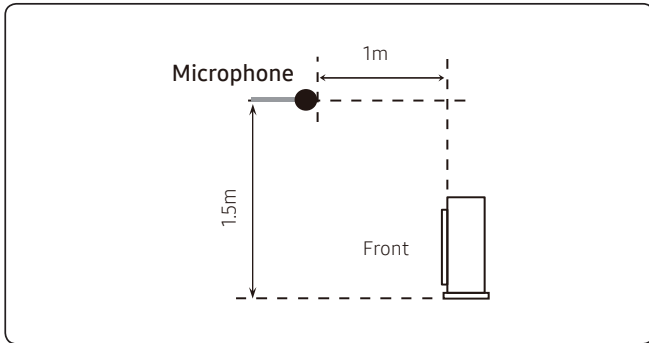
- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation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

# 6. Sound Data

## Outdoor units

### Sound Pressure level

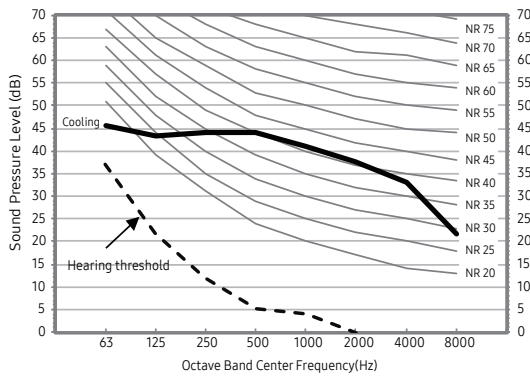
Unit: dB(A)



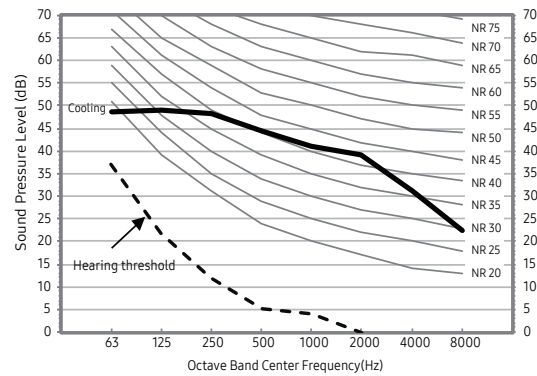
Model	Cooling
AR09TXFYAWKXEU	46
AR12TXFYAWKXEU	47
AR18TXFYAWKXEU	51
AR24TXFYAWKXEU	54

- NR Curve

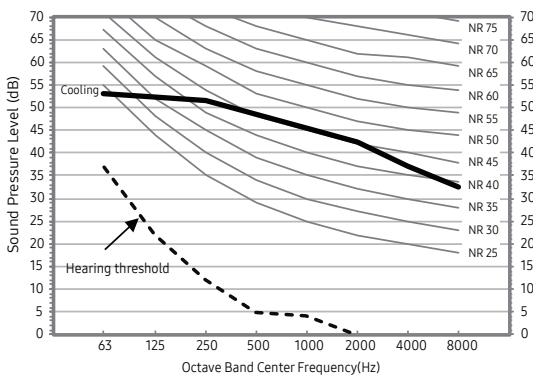
1) AR09TXFYAWKXEU



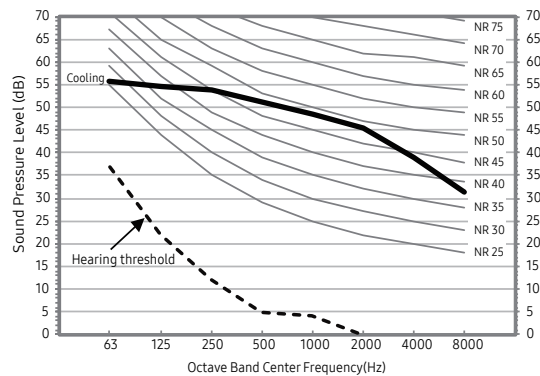
2) AR12TXFYAWKXEU



3) AR18TXFYAWKXEU



4) AR24TXFYAWKXEU



### NOTE

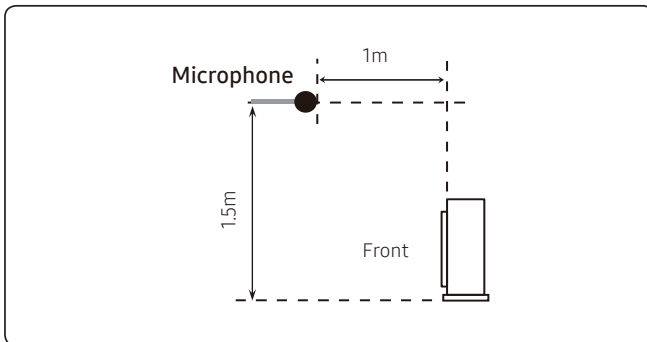
- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation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

# 6. Sound Data

## Outdoor units

### Sound Pressure level

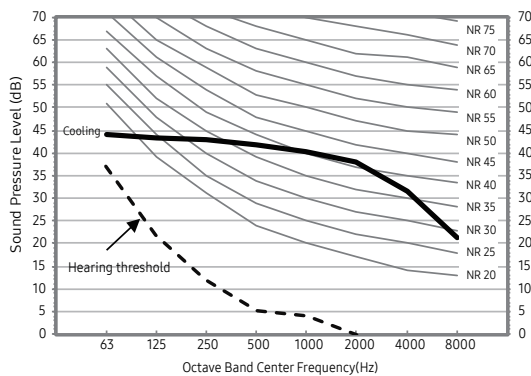
Unit: dB(A)



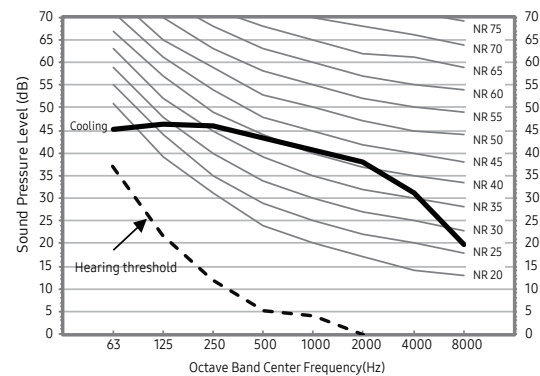
Model	Cooling
AR09TXEAAWKXEU	45
AR12TXEAAWKXEU	46
AR18TXEAAWKXEU	51
AR24TXEAAWKXEU	54

- NR Curve

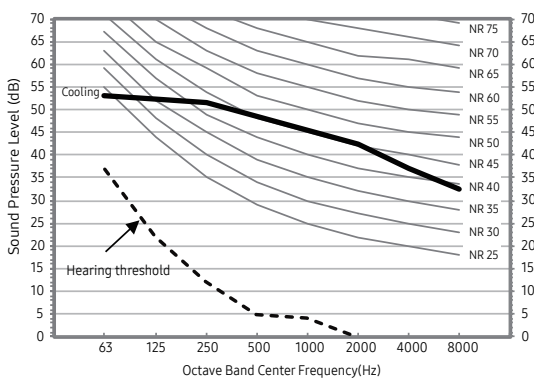
1) AR09TXEAAWKXEU



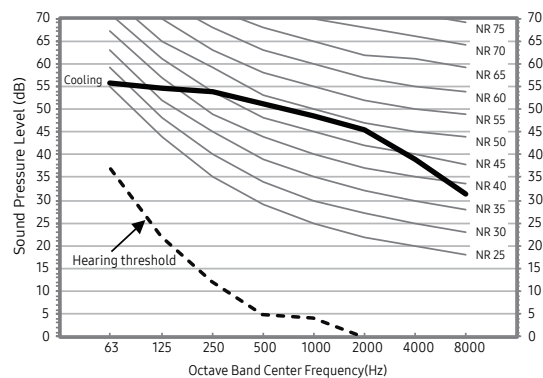
2) AR12TXEAAWKXEU



3) AR18TXEAAWKXEU



4) AR24TXEAAWKXEU



### NOTE

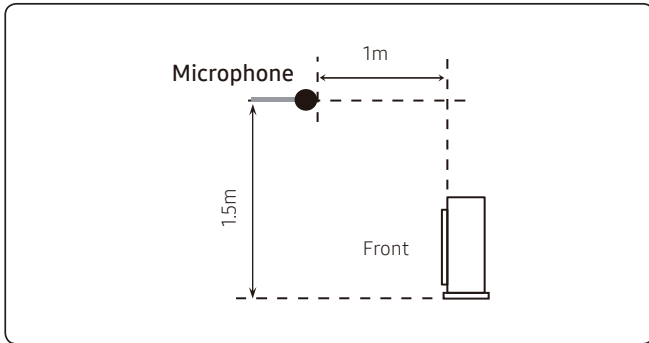
- Specifications may be subject to change without prior notice.
- Sound pressure Level
  - Sound pressure level is obtained in an anechoic room.
  - Sound pressure level is a relative value, depending on the distance and acoustic environment.
  - Sound pressure level may differ depending on operation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

# 6. Sound Data

## Outdoor units

### Sound Pressure level

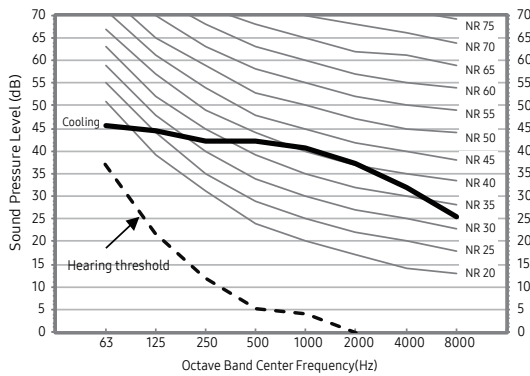
Unit: dB(A)



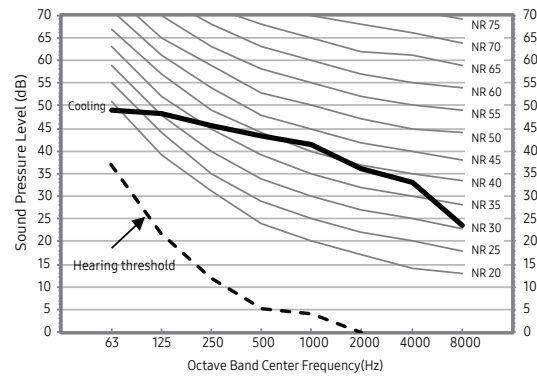
Model	Cooling
AR09TXCAAWKXEU	45
AR12TXCAAWKXEU	46

- 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)

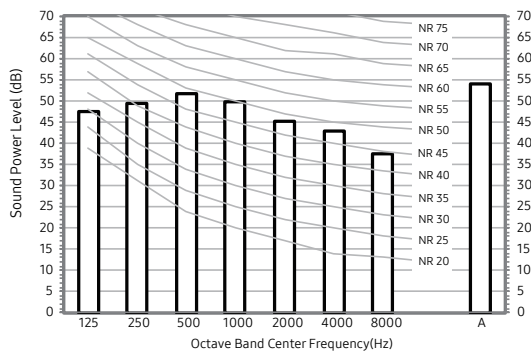
#### NOTE

- 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.

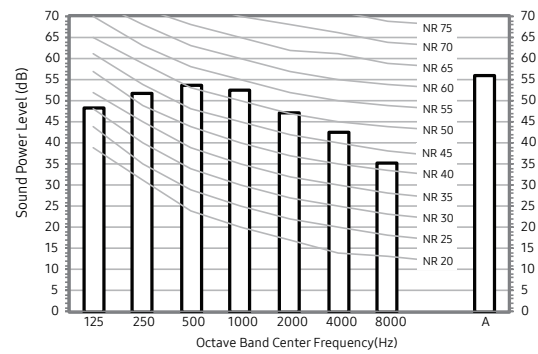
Model	Cooling
AR09TXHZAWKNEU	54
AR12TXHZAWKNEU	56
AR18TXHZAWKNEU	58
AR24TXHZAWKNEU	62

#### NR Curve

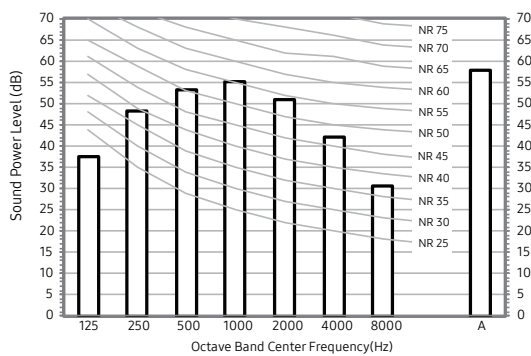
1) AR09TXHZAWKNEU



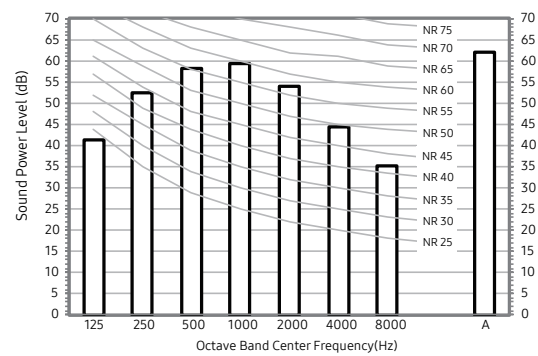
2) AR12TXHZAWKNEU



3) AR18TXHZAWKNEU



4) AR24TXHZAWKNEU



# 6. Sound Data

## Indoor units : AR7500

### Sound Power level

Unit: dB(A)

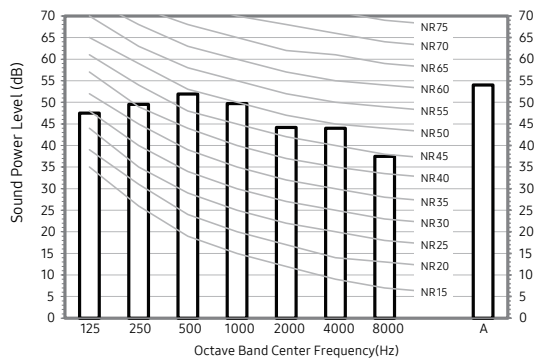
#### NOTE

- 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.

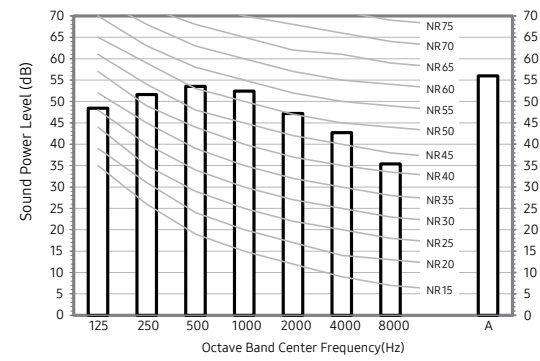
Model	Cooling
AR09TXFCAWKNEU	54
AR12TXFCAWKNEU	56
AR18TXFCAWKNEU	58
AR24TXFCAWKNEU	62

#### NR Curve

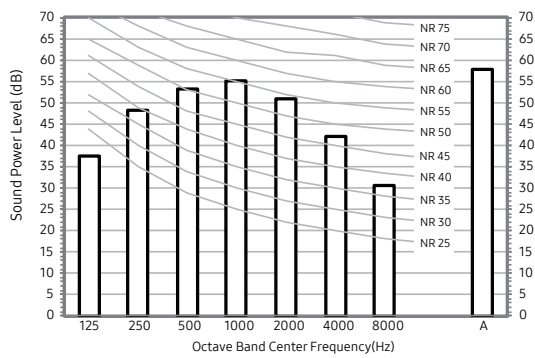
1) AR09TXFCAWKNEU



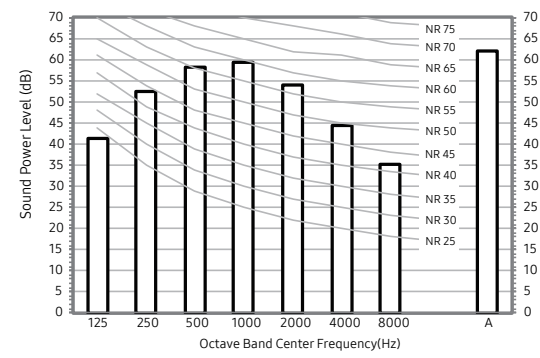
2) AR12TXFCAWKNEU



3) AR18TXFCAWKNEU



4) AR24TXFCAWKNEU



# 6. Sound Data

## Indoor units : AR5500

### Sound Power level

Unit: dB(A)

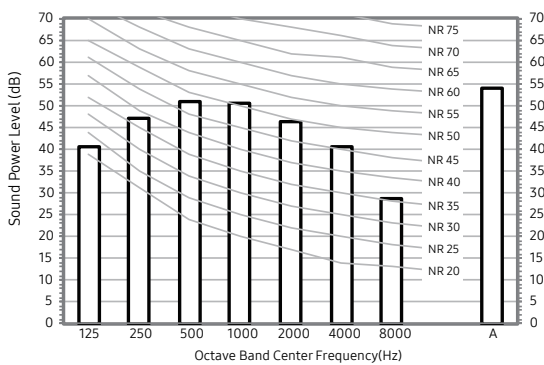
#### NOTE

- 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.

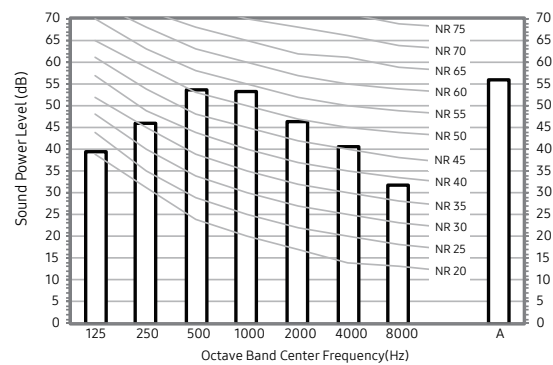
Model	Cooling
AR09TXFYAWKNEU	54
AR12TXFYAWKNEU	56
AR18TXFYAWKNEU	58
AR24TXFYAWKNEU	62

#### NR Curve

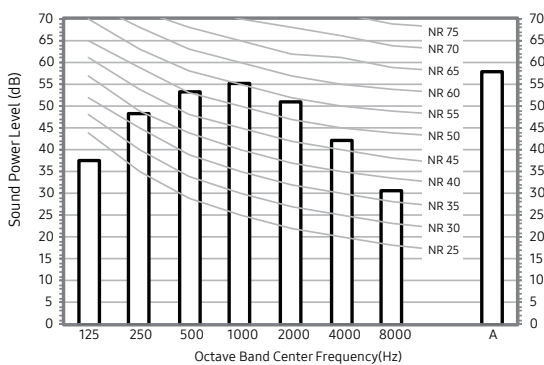
1) AR09TXFYAWKNEU



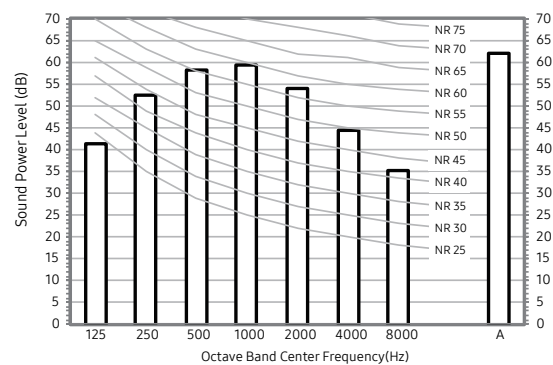
2) AR12TXFYAWKNEU



3) AR18TXFYAWKNEU



4) AR24TXFYAWKNEU





# 6. Sound Data

## Indoor units : AR9500

### Sound Power level

Unit: dB(A)

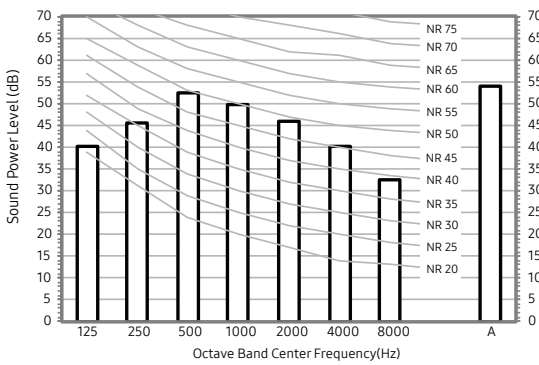
#### NOTE

- 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.

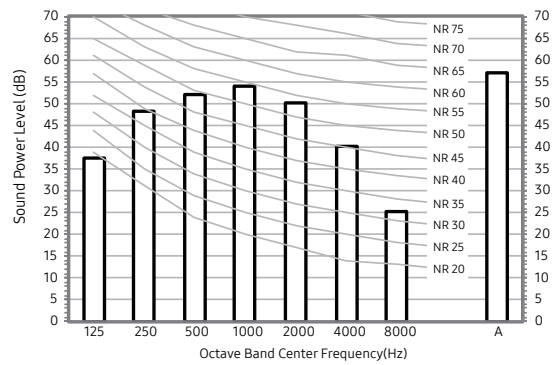
Model	Cooling
AR09TXEAAWKNEU	54
AR12TXEAAWKNEU	57
AR18TXEAAWKNEU	58
AR24TXEAAWKNEU	62

#### NR Curve

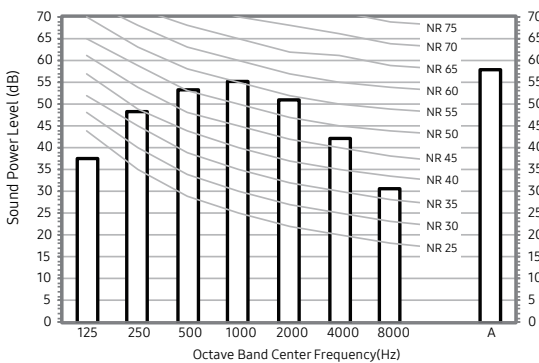
1) AR09TXEAAWKNEU



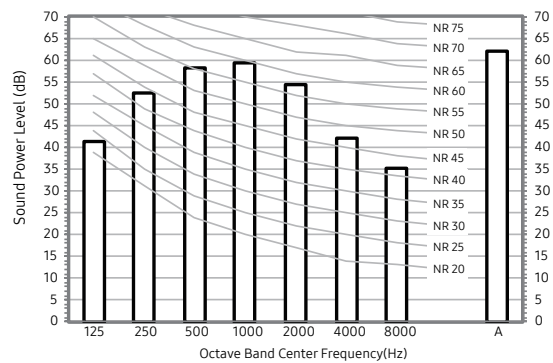
2) AR12TXEAAWKNEU



3) AR18TXEAAWKNEU



4) AR24TXEAAWKNEU



# 6. Sound Data

## Indoor units : AR9500

### Sound Power level

Unit: dB(A)

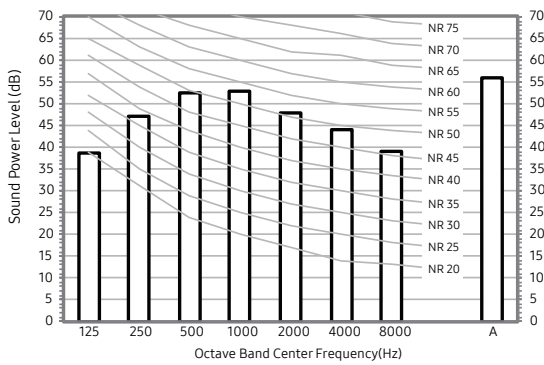
#### NOTE

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

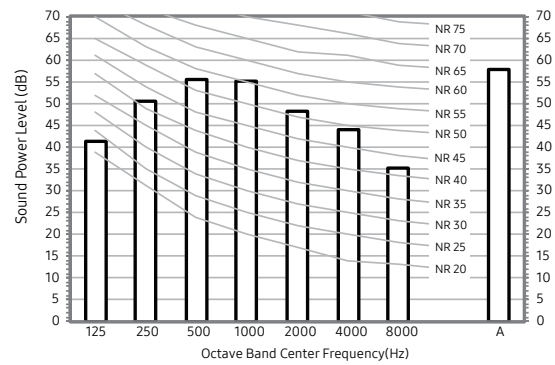
Model	Cooling
AR09TXCAAWKNEU	56
AR12TXCAAWKNEU	58

#### NR Curve

1) AR09TXCAAWKNEU



2) AR12TXCAAWKNEU



# 6. Sound Data

## Outdoor units

### Sound Power level

Unit: dB(A)

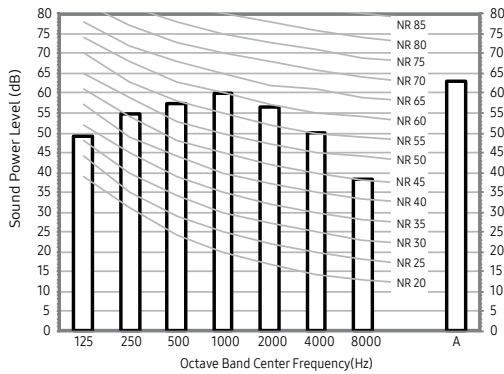
#### NOTE

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

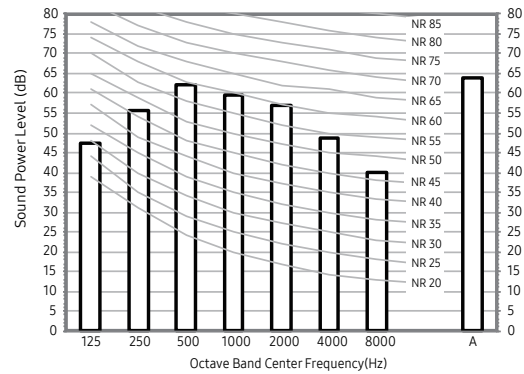
Model	Cooling
AR09TXHZAWKXEU	63
AR12TXHZAWKXEU	64
AR18TXHZAWKXEU	65
AR24TXHZAWKXEU	68

#### NR Curve

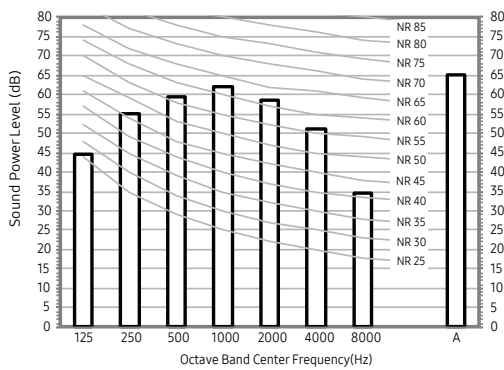
1) AR09TXHZAWKXEU



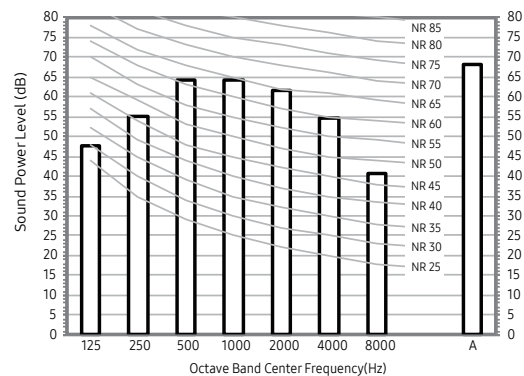
2) AR12TXHZAWKXEU



3) AR18TXHZAWKXEU



4) AR24TXHZAWKXEU



# 6. Sound Data

## Outdoor units

### Sound Power level

Unit: dB(A)

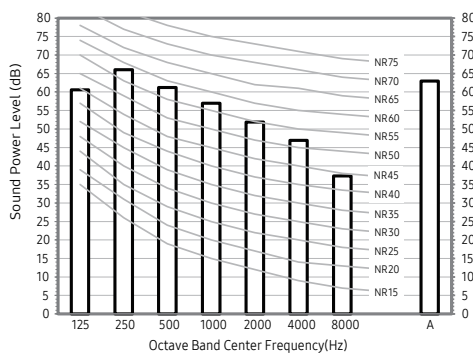
#### NOTE

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

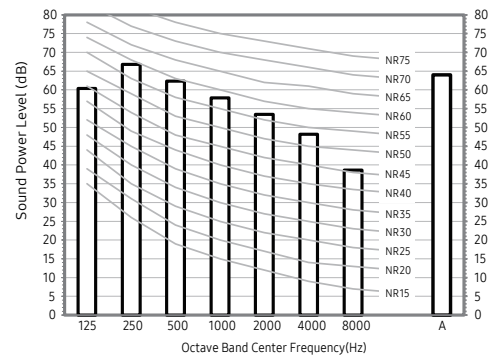
Model	Cooling
AR09TXFCAWKXEU	63
AR12TXFCAWKXEU	64
AR18TXFCAWKXEU	65
AR24TXFCAWKXEU	68

#### NR Curve

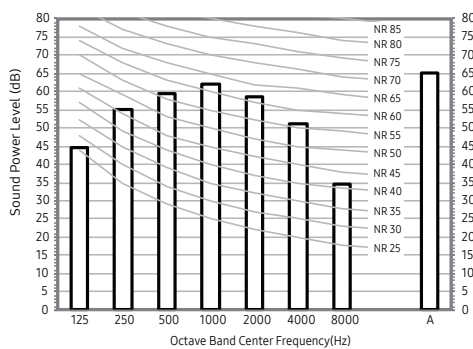
1) AR09TXFCAWKXEU



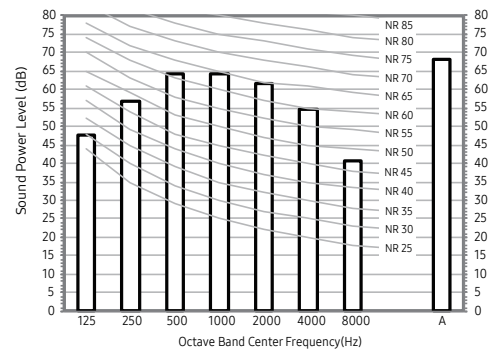
2) AR12TXFCAWKXEU



3) AR18TXFCAWKXEU



4) AR24TXFCAWKXEU



# 6. Sound Data

## Outdoor units

### Sound Power level

Unit: dB(A)

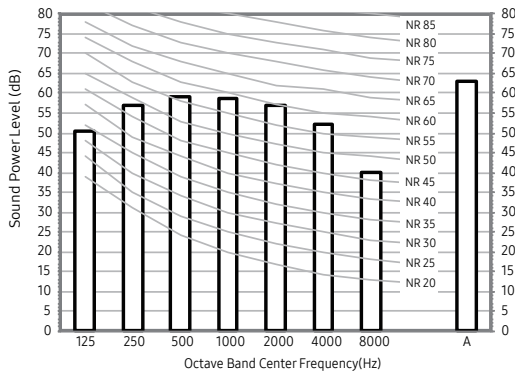
#### NOTE

- 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.

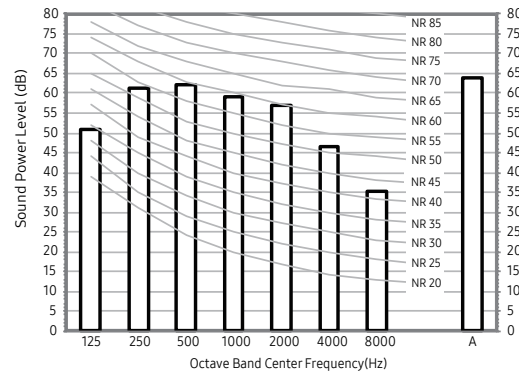
Model	Cooling
AR09TXFYAWKXEU	63
AR12TXFYAWKXEU	64
AR18TXFYAWKXEU	65
AR24TXFYAWKXEU	68

#### NR Curve

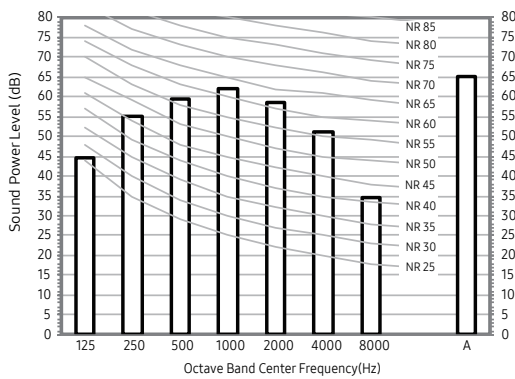
1) AR09TXFYAWKXEU



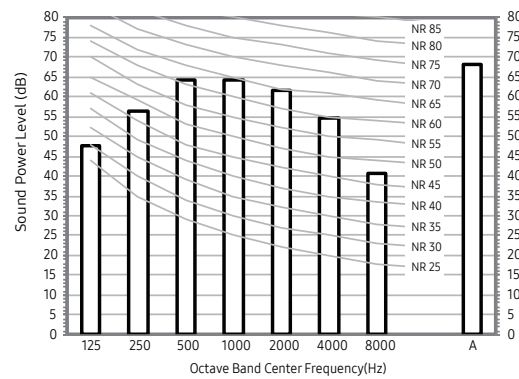
2) AR12TXFYAWKXEU



3) AR18TXFYAWKXEU



4) AR24TXFYAWKXEU



# 6. Sound Data

## Outdoor units

### Sound Power level

Unit: dB(A)

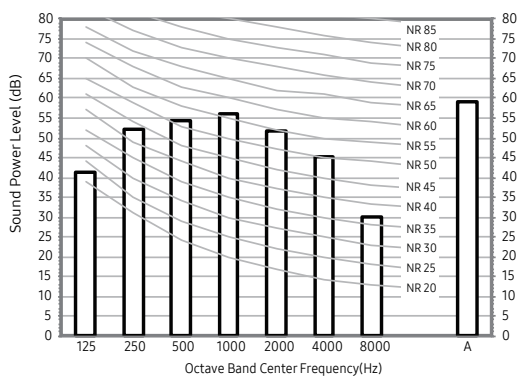
#### NOTE

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

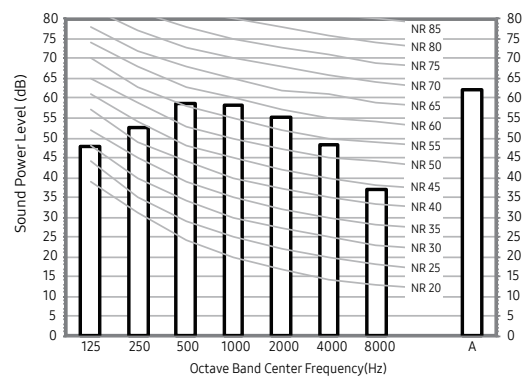
Model	Cooling
AR09TXEAAWKXEU	59
AR12TXEAAWKXEU	62
AR18TXEAAWKXEU	65
AR24TXEAAWKXEU	68

#### NR Curve

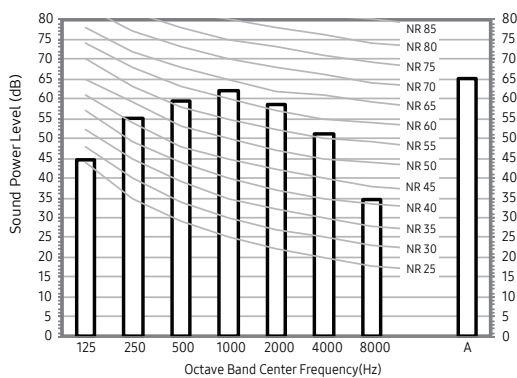
1) AR09TXEAAWKXEU



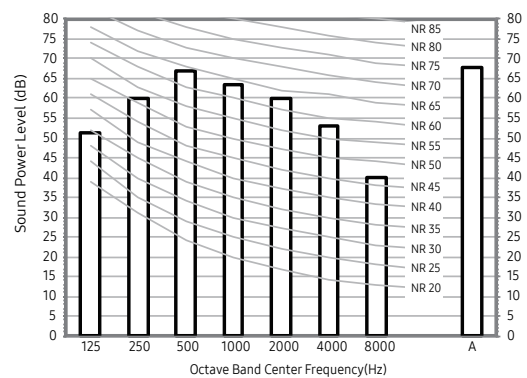
2) AR12TXEAAWKXEU



3) AR12TXEAAWKXEU



4) AR24TXEAAWKXEU



# 6. Sound Data

## Outdoor units

### Sound Power level

Unit: dB(A)

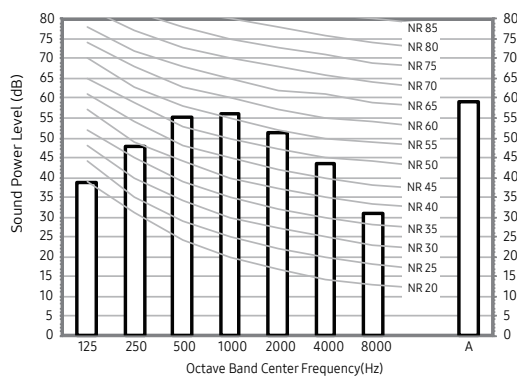
#### NOTE

- 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.

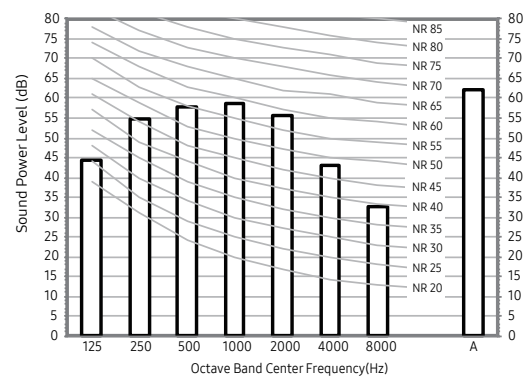
Model	Cooling
AR09TXCAAWKXEU	59
AR12TXCAAWKXEU	62

#### NR Curve

1) AR09TXCAAWKXEU



2) AR12TXCAAWKXEU

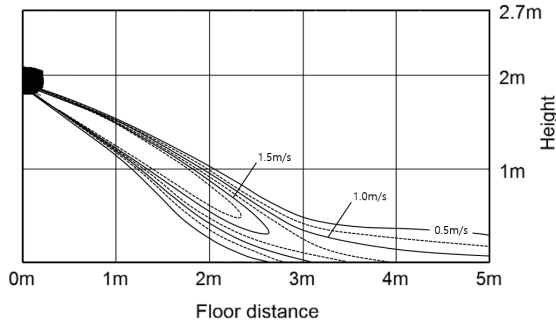


# 7. Temperature and air flow distribution

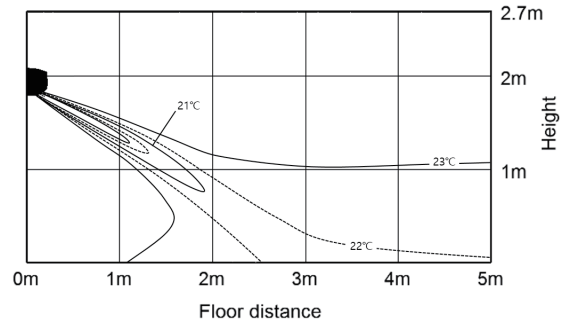
## AR4500

### AR09TXHZAWKNEU

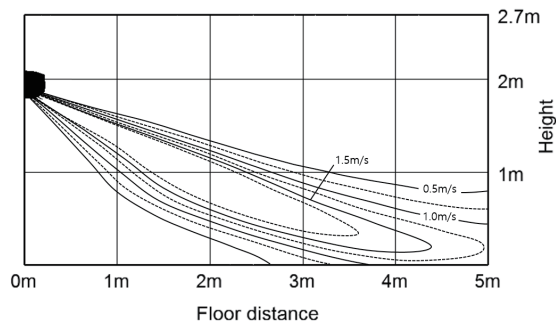
- Cooling air velocity distribution  
(Discharge angle : 20 degree)



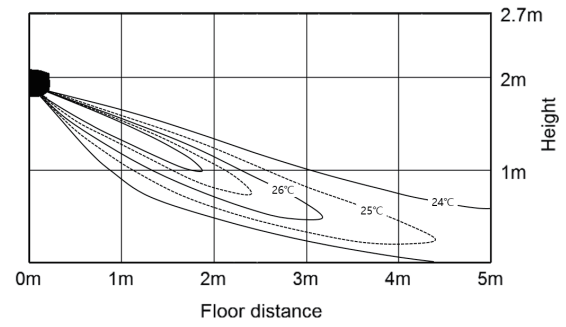
- Cooling Temperature distribution  
(Discharge angle : 20 degree)



- Heating air velocity distribution  
(Discharge angle : 30 degree)

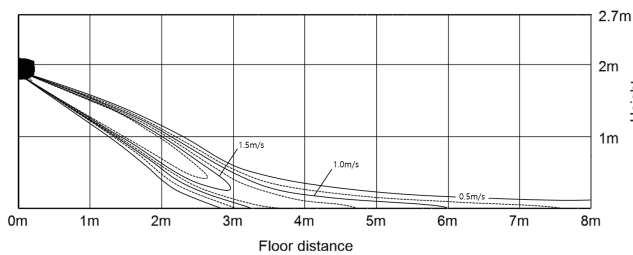


- Heating Temperature distribution  
(Discharge angle : 30 degree)

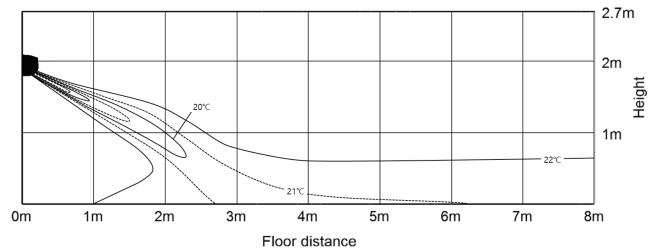


### AR12TXHZAWKNEU

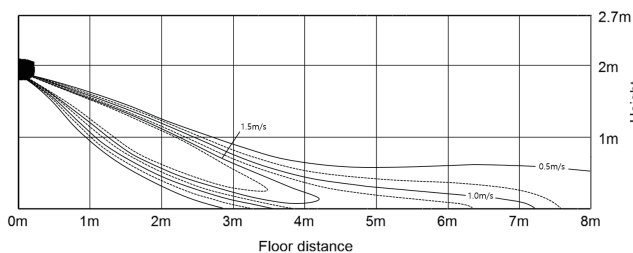
- Cooling air velocity distribution  
(Discharge angle : 20 degree)



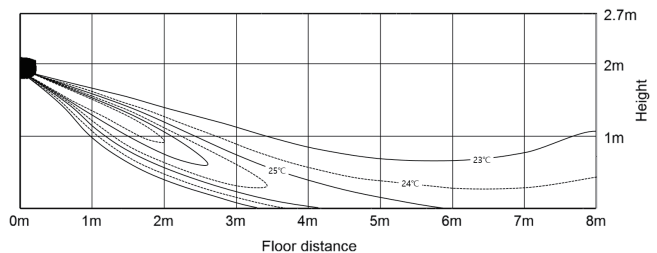
- Cooling Temperature distribution  
(Discharge angle : 20 degree)



- Heating air velocity distribution  
(Discharge angle : 30 degree)



- Heating Temperature distribution  
(Discharge angle : 30 degree)





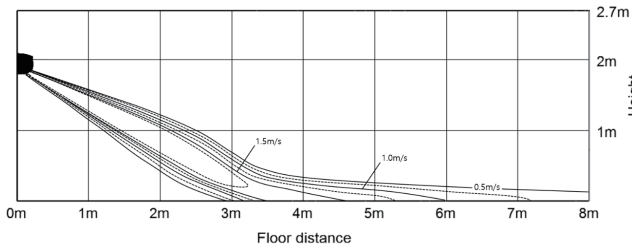
# 7. Temperature and air flow distribution

## AR4500

### AR18TXHZAWKNEU

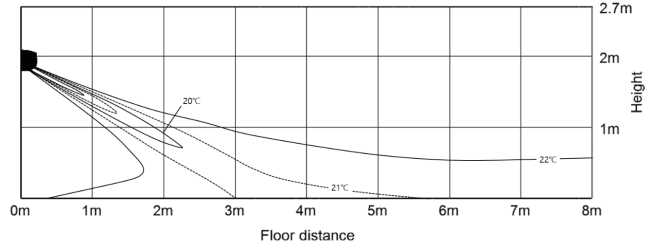
- Cooling air velocity distribution

(Discharge angle : 20 degree)



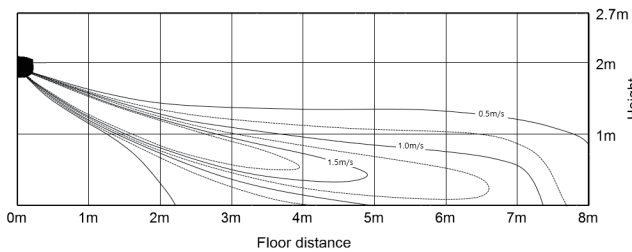
- Cooling Temperature distribution

(Discharge angle : 20 degree)



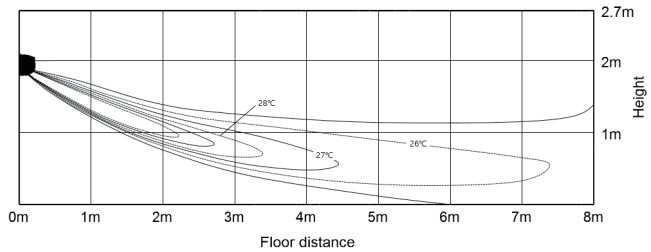
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

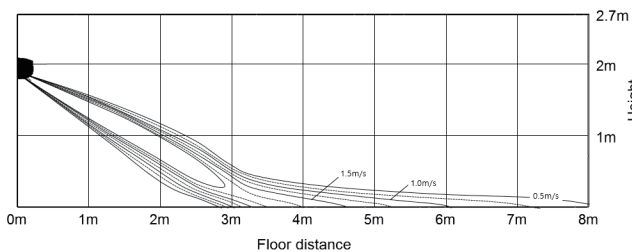
(Discharge angle : 30 degree)



### AR24TXHZAWKNEU

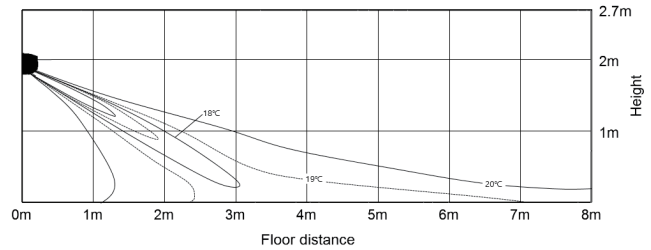
- Cooling air velocity distribution

(Discharge angle : 20 degree)



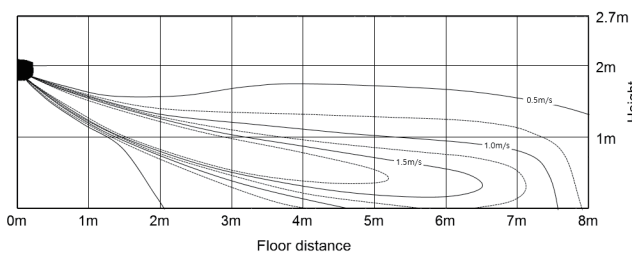
- Cooling Temperature distribution

(Discharge angle : 20 degree)



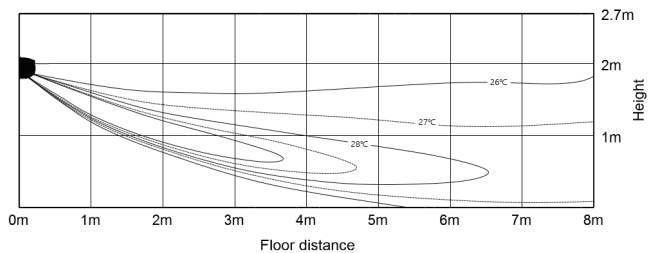
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

(Discharge angle : 30 degree)

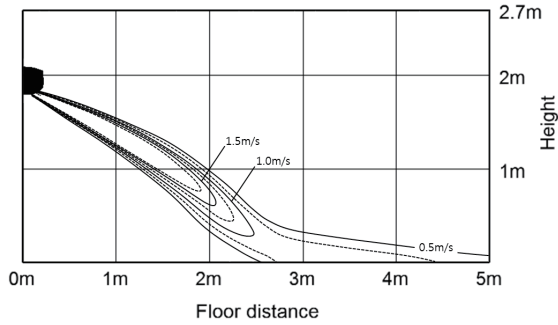


# 7. Temperature and air flow distribution

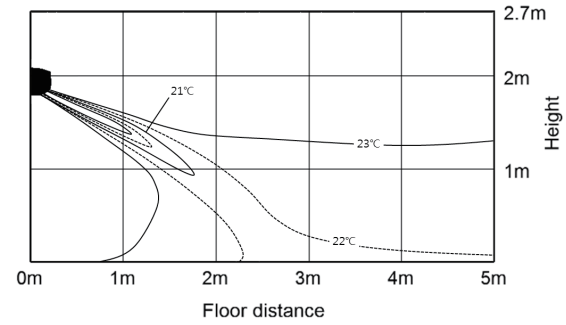
## AR7500

### AR09TXFCAWKNEU

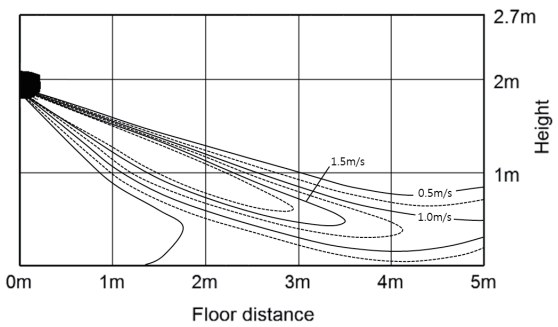
- Cooling air velocity distribution  
(Discharge angle : 20 degree)



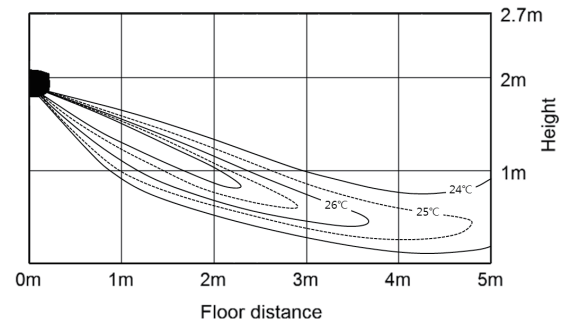
- Cooling Temperature distribution  
(Discharge angle : 20 degree)



- Heating air velocity distribution  
(Discharge angle : 30 degree)

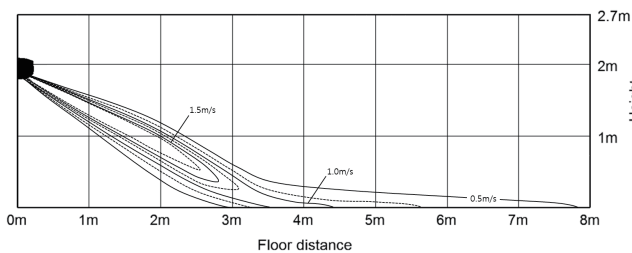


- Heating Temperature distribution  
(Discharge angle : 30 degree)

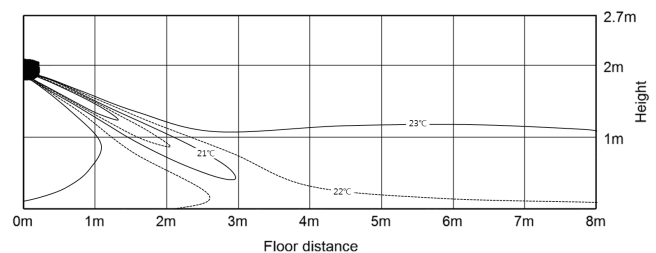


### AR12TXFCAWKNEU

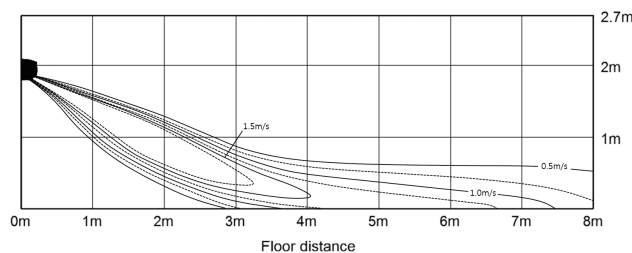
- Cooling air velocity distribution  
(Discharge angle : 20 degree)



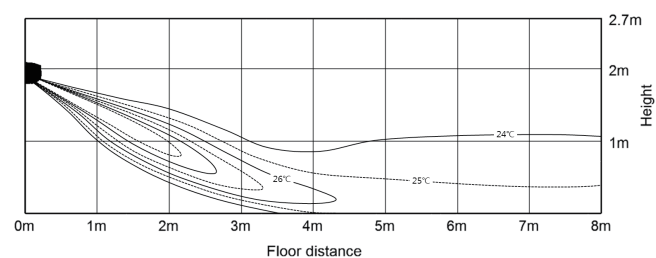
- Cooling Temperature distribution  
(Discharge angle : 20 degree)



- Heating air velocity distribution  
(Discharge angle : 30 degree)



- Heating Temperature distribution  
(Discharge angle : 30 degree)



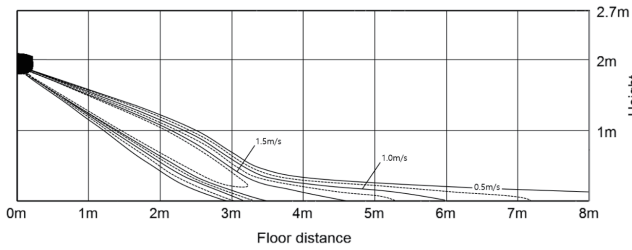
# 7. Temperature and air flow distribution

## AR7500

### AR18TXFCAWKNEU

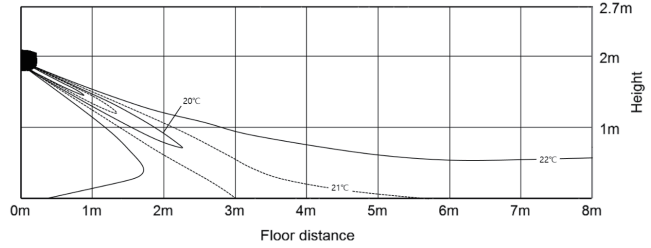
- Cooling air velocity distribution

(Discharge angle : 20 degree)



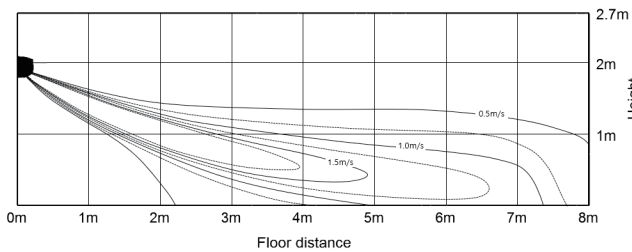
- Cooling Temperature distribution

(Discharge angle : 20 degree)



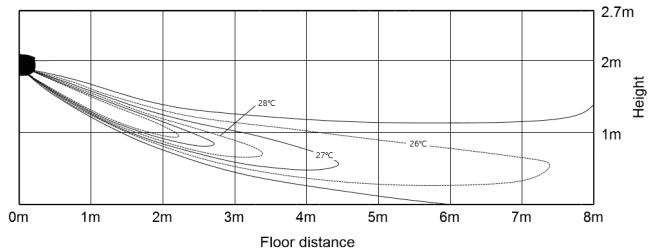
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

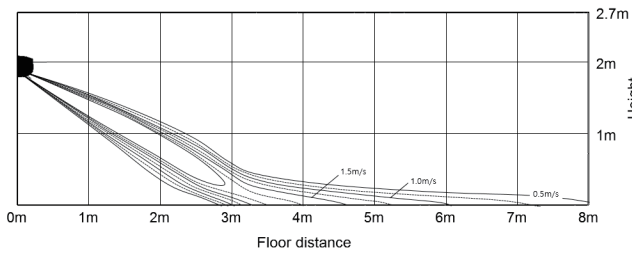
(Discharge angle : 30 degree)



### AR24TXFCAWKNEU

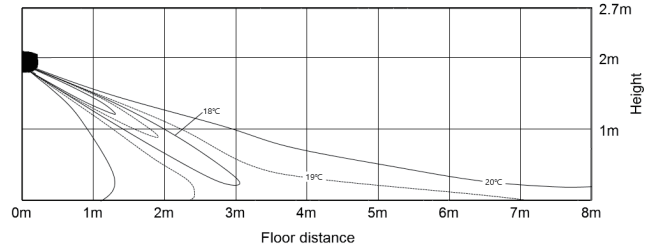
- Cooling air velocity distribution

(Discharge angle : 20 degree)



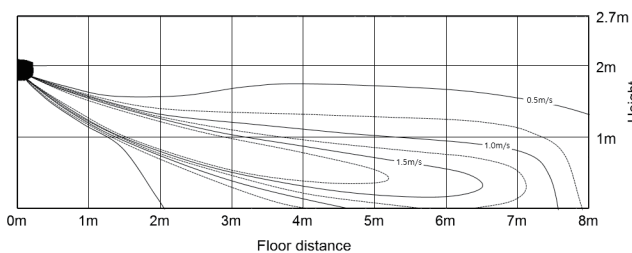
- Cooling Temperature distribution

(Discharge angle : 20 degree)



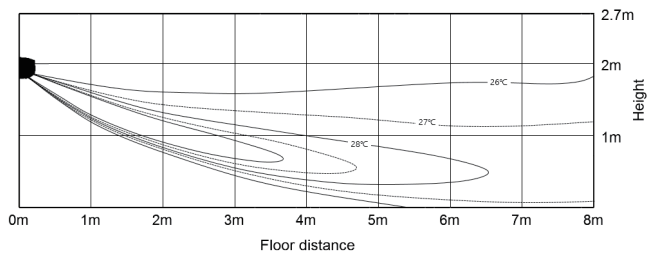
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

(Discharge angle : 30 degree)

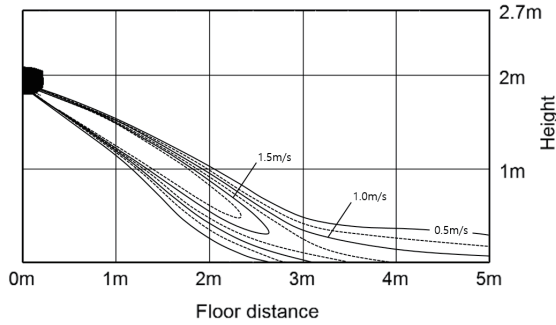


# 7. Temperature and air flow distribution

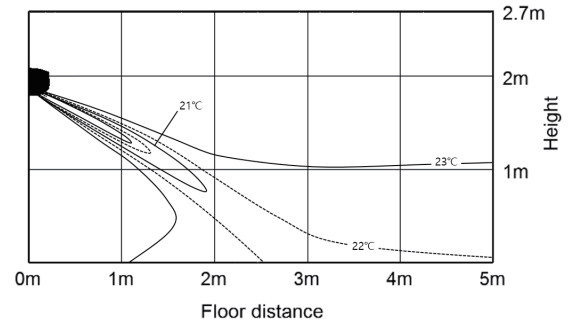
## AR5500

### AR09TXFYAWKNEU

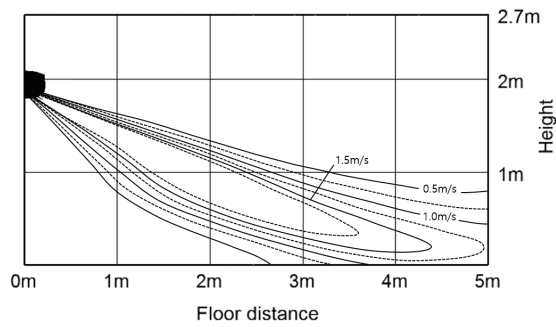
- Cooling air velocity distribution  
(Discharge angle : 20 degree)



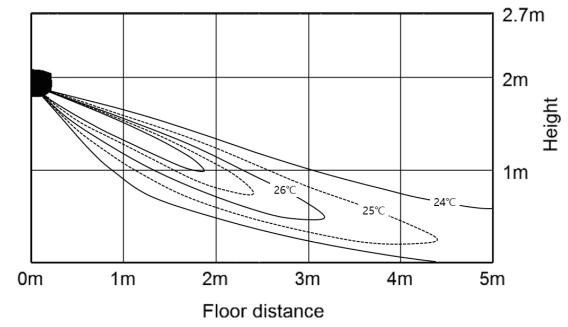
- Cooling Temperature distribution  
(Discharge angle : 20 degree)



- Heating air velocity distribution  
(Discharge angle : 30 degree)

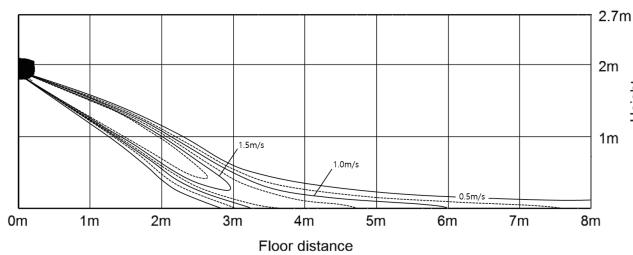


- Heating Temperature distribution  
(Discharge angle : 30 degree)

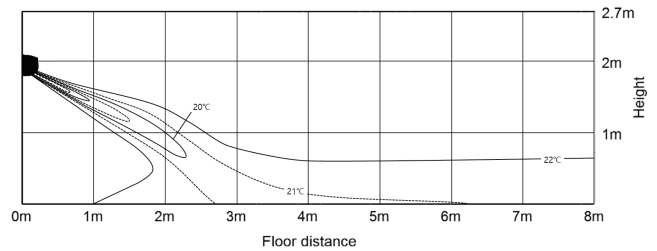


### AR12TXFYAWKNEU

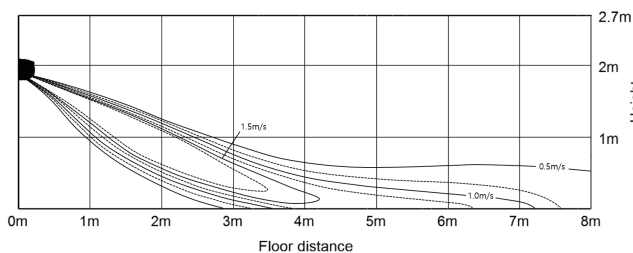
- Cooling air velocity distribution  
(Discharge angle : 20 degree)



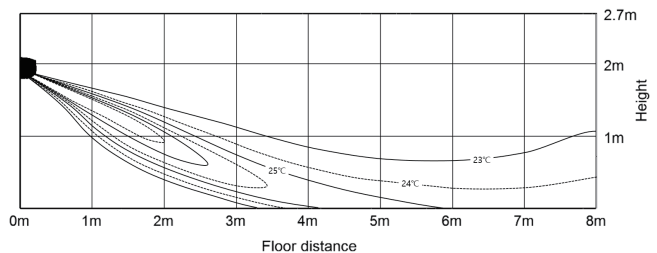
- Cooling Temperature distribution  
(Discharge angle : 20 degree)



- Heating air velocity distribution  
(Discharge angle : 30 degree)



- Heating Temperature distribution  
(Discharge angle : 30 degree)



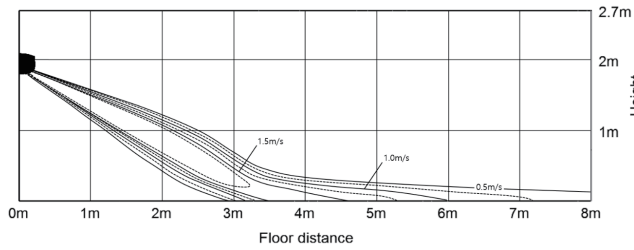
# 7. Temperature and air flow distribution

## AR5500

### AR18TXFYAWKNEU

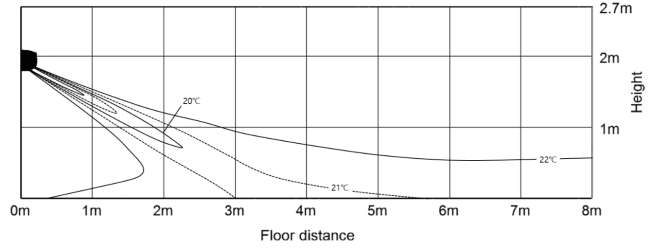
- Cooling air velocity distribution

(Discharge angle : 20 degree)



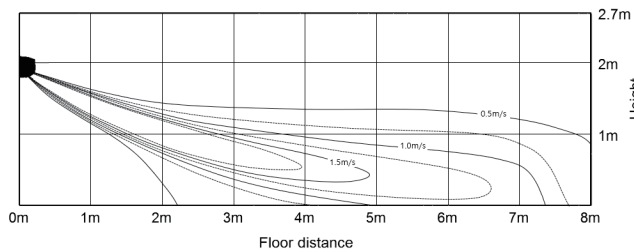
- Cooling Temperature distribution

(Discharge angle : 20 degree)



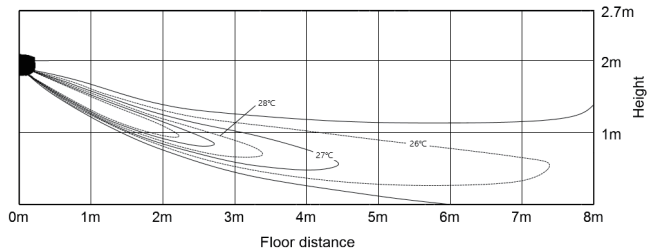
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

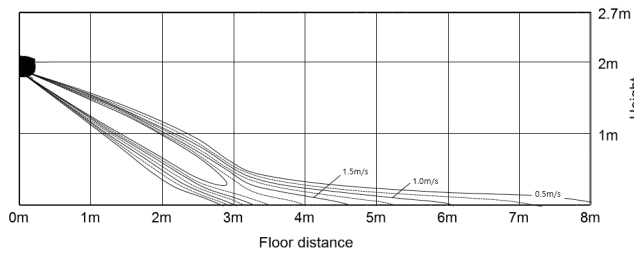
(Discharge angle : 30 degree)



### AR24TXFYAWKNEU

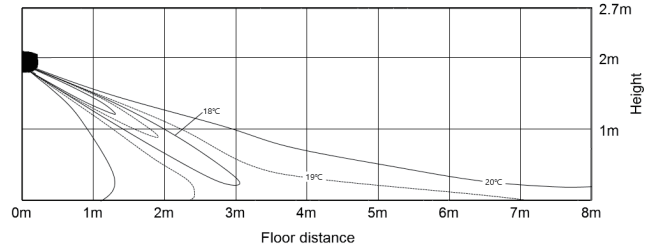
- Cooling air velocity distribution

(Discharge angle : 20 degree)



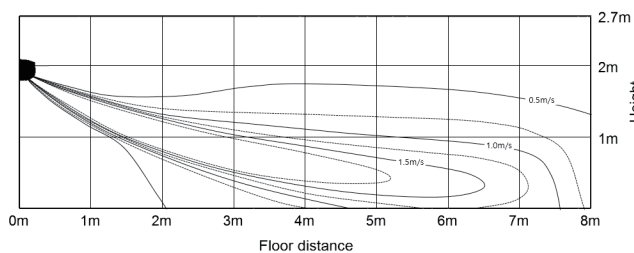
- Cooling Temperature distribution

(Discharge angle : 20 degree)



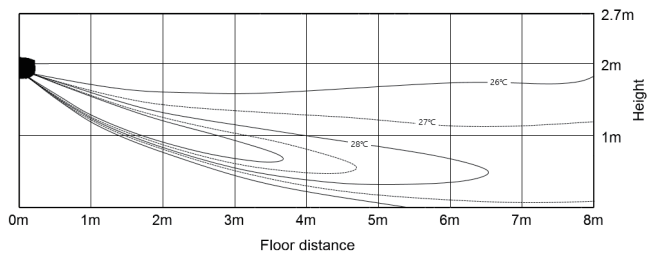
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

(Discharge angle : 30 degree)

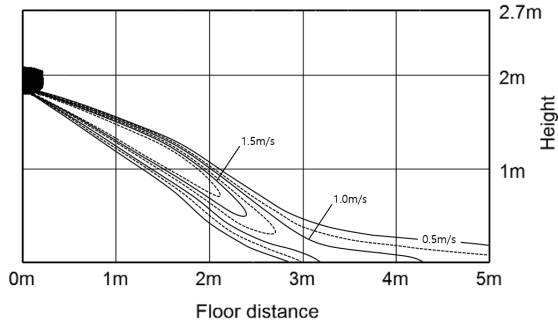


# 7. Temperature and air flow distribution

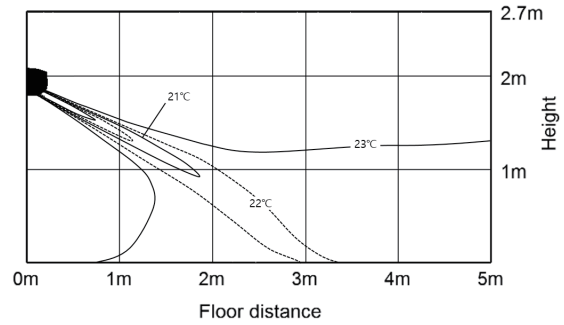
## AR9500

### AR09TXEAAWKNEU

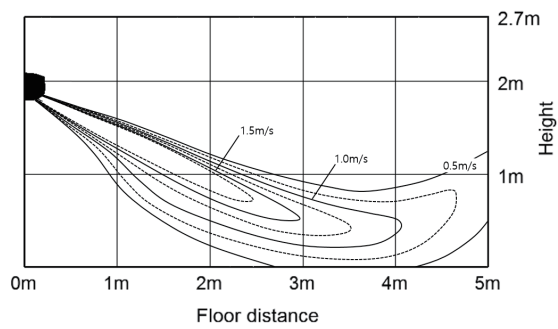
- Cooling air velocity distribution  
(Discharge angle : 20 degree)



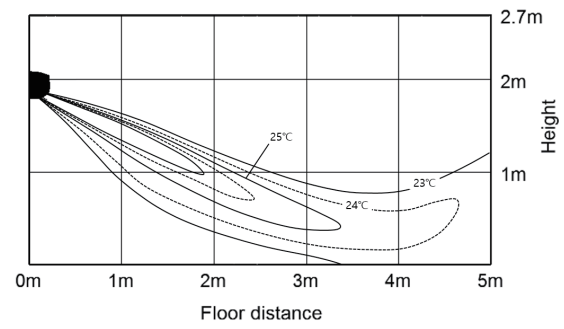
- Cooling Temperature distribution  
(Discharge angle : 20 degree)



- Heating air velocity distribution  
(Discharge angle : 30 degree)

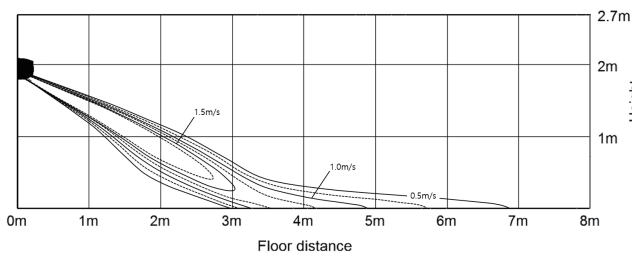


- Heating Temperature distribution  
(Discharge angle : 30 degree)

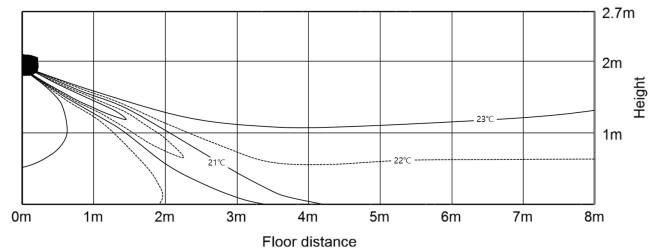


### AR12TXEAAWKNEU

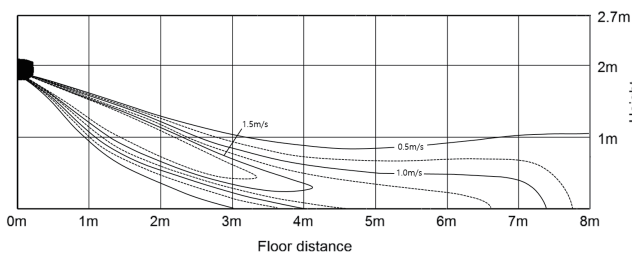
- Cooling air velocity distribution  
(Discharge angle : 20 degree)



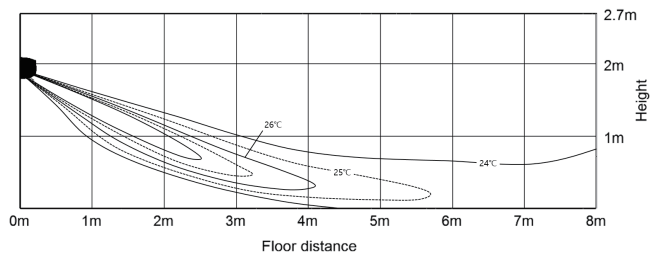
- Cooling Temperature distribution  
(Discharge angle : 20 degree)



- Heating air velocity distribution  
(Discharge angle : 30 degree)



- Heating Temperature distribution  
(Discharge angle : 30 degree)



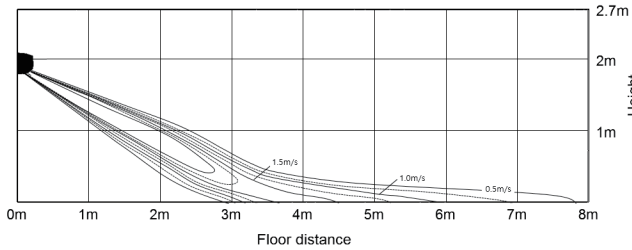
# 7. Temperature and air flow distribution

## AR9500

### AR18TXEAAWKNEU

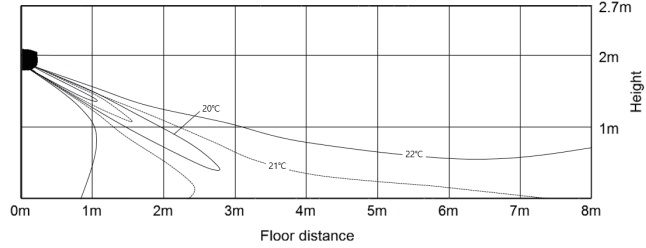
- Cooling air velocity distribution

(Discharge angle : 20 degree)



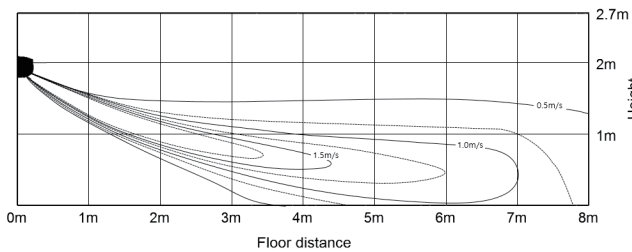
- Cooling Temperature distribution

(Discharge angle : 20 degree)



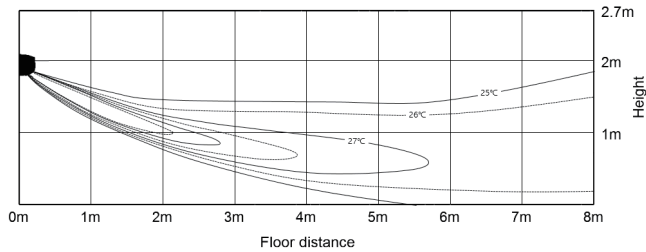
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

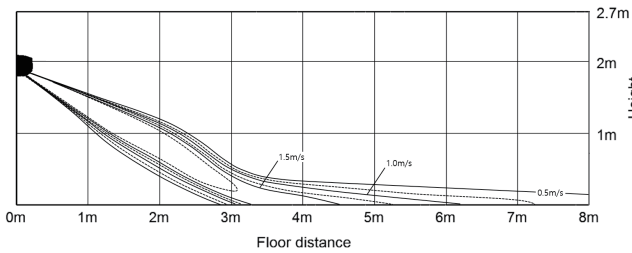
(Discharge angle : 30 degree)



### AR24TXEAAWKNEU

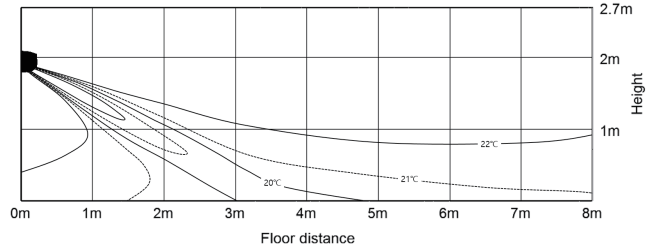
- Cooling air velocity distribution

(Discharge angle : 20 degree)



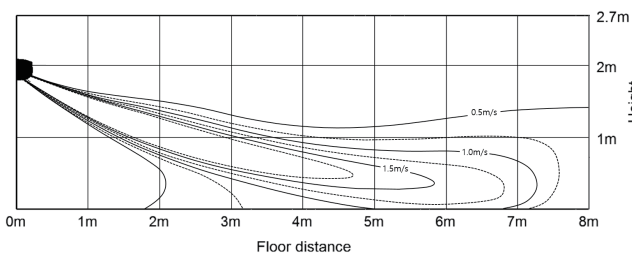
- Cooling Temperature distribution

(Discharge angle : 20 degree)



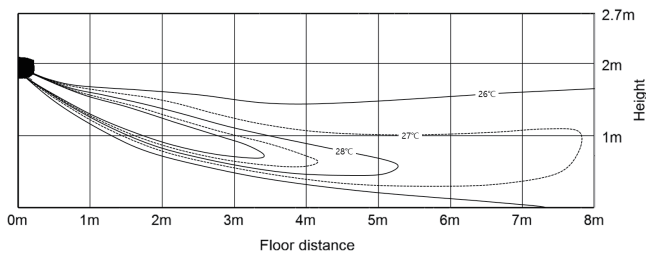
- Heating air velocity distribution

(Discharge angle : 30 degree)



- Heating Temperature distribution

(Discharge angle : 30 degree)

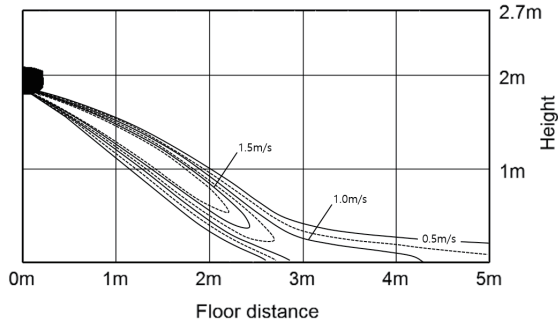


# 7. Temperature and air flow distribution

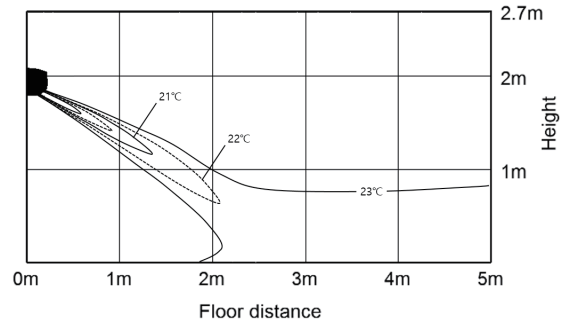
## AR9500

### AR09TXCAAWKNEU

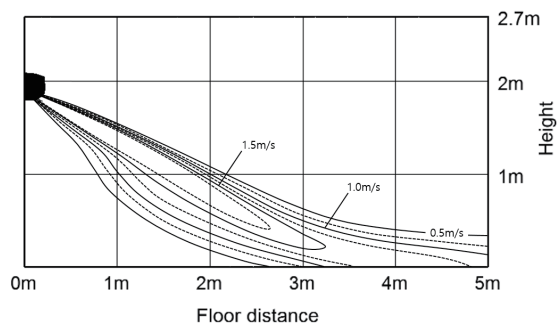
- Cooling air velocity distribution  
(Discharge angle : 20 degree)



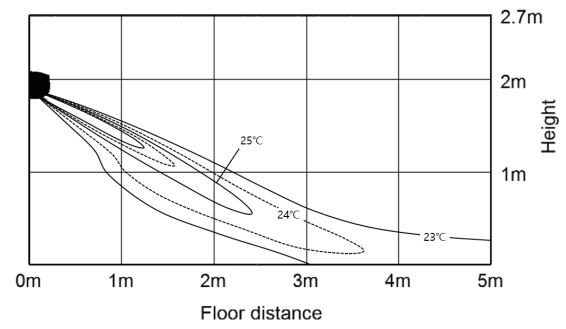
- Cooling Temperature distribution  
(Discharge angle : 20 degree)



- Heating air velocity distribution  
(Discharge angle : 30 degree)

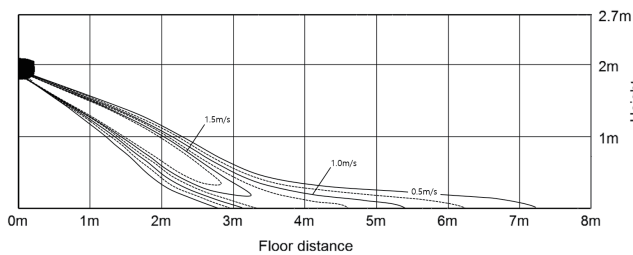


- Heating Temperature distribution  
(Discharge angle : 30 degree)

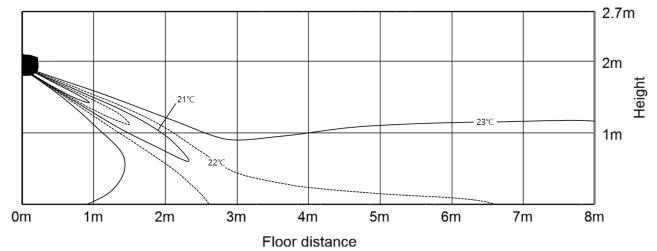


### AR12TXCAAWKNEU

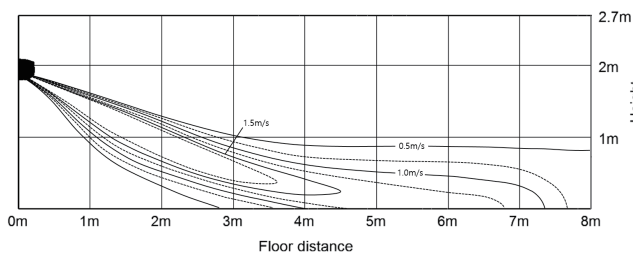
- Cooling air velocity distribution  
(Discharge angle : 20 degree)



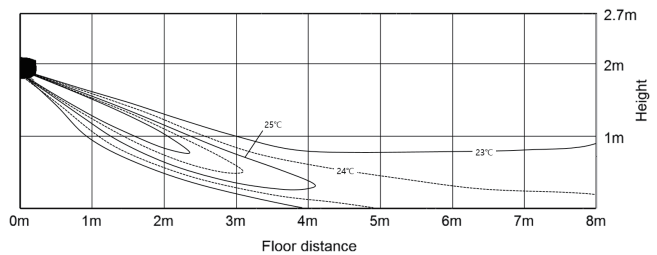
- Cooling Temperature distribution  
(Discharge angle : 20 degree)



- Heating air velocity distribution  
(Discharge angle : 30 degree)

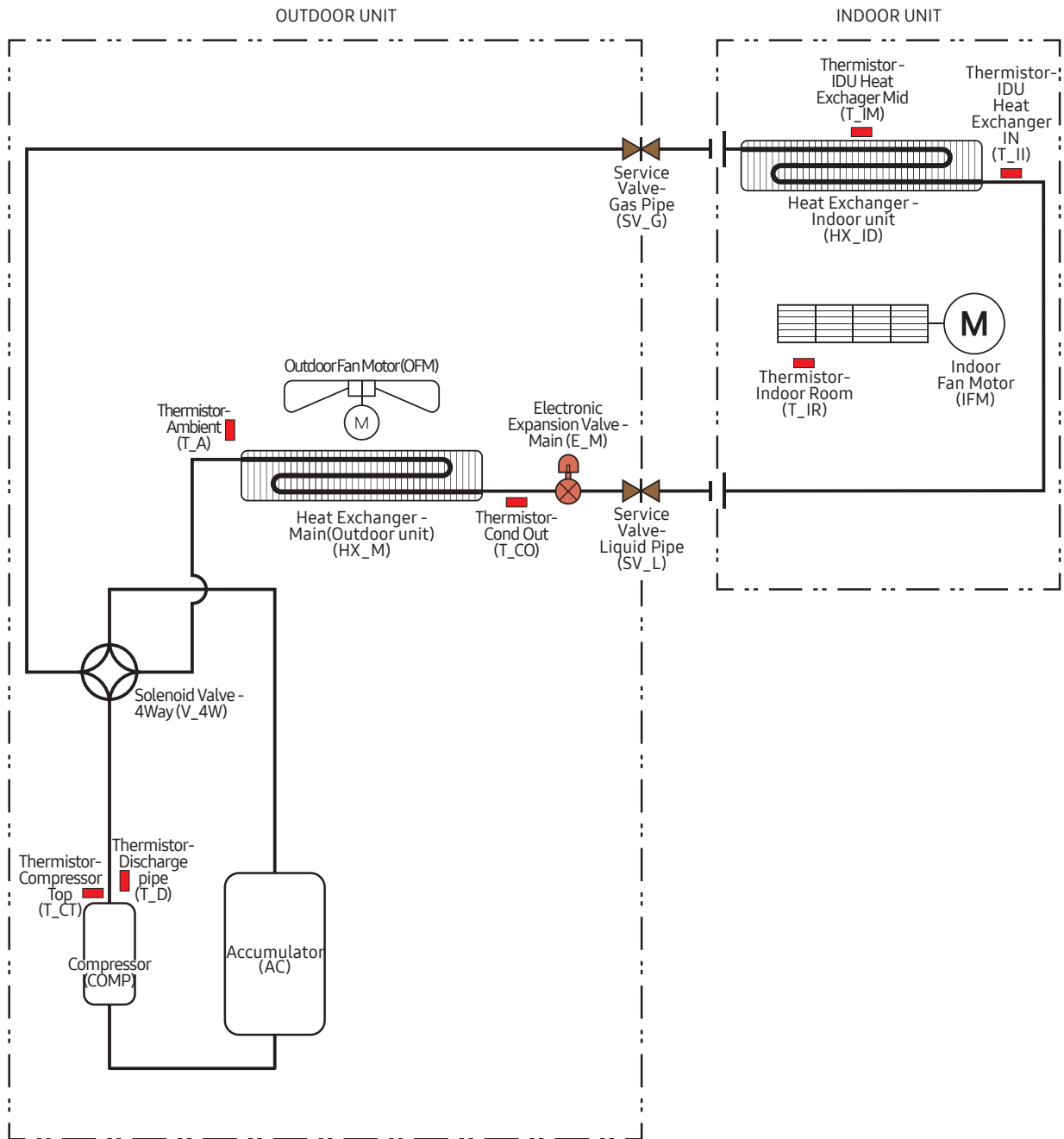


- Heating Temperature distribution  
(Discharge angle : 30 degree)





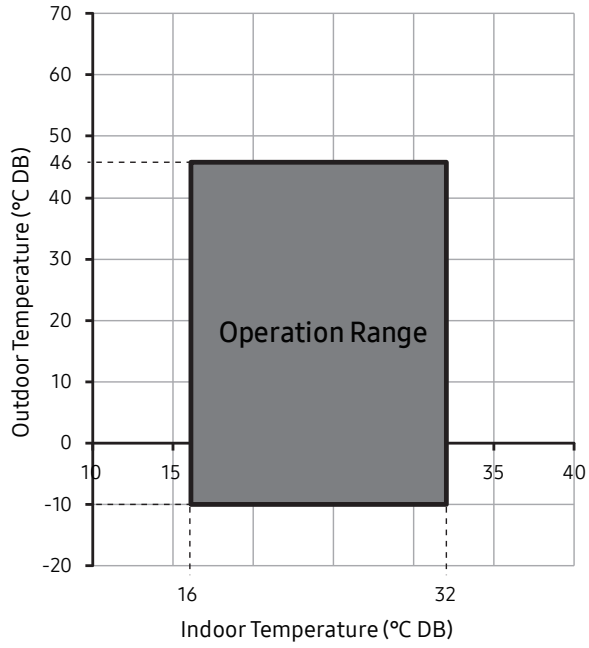
# 8. Piping Diagram



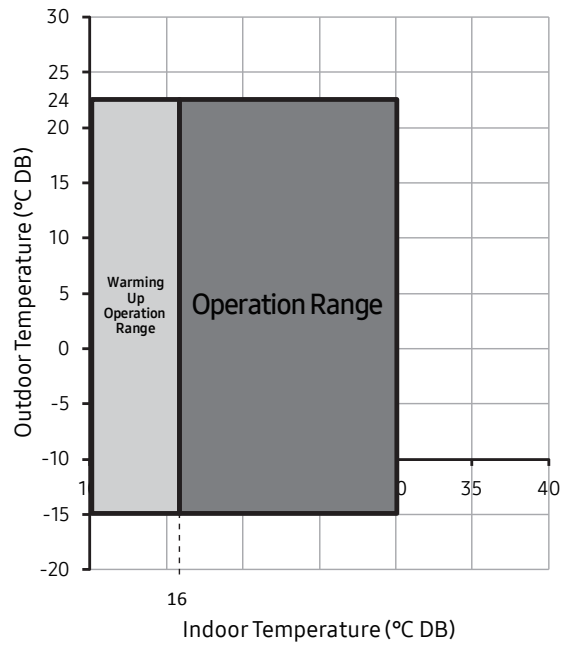
# 9. Operation Limit

---

Cooling



Heating

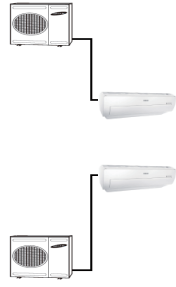


# 10. Capacity Correction

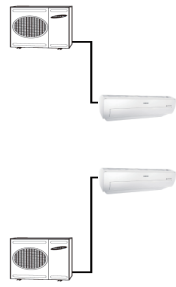
## Outdoor units

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

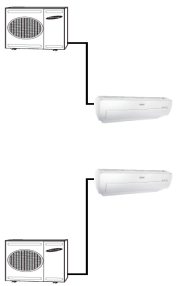
AR4500 : AR18TXHZAWKNEU+ AR18TXHZAWKXEU, AR24TXHZAWKNEU+AR24TXHZAWKXEU

AR7500 : AR18TXFCAWKNEU+ AR18TXFCAWKXEU, AR24TXFCAWKNEU+ AR24TXFCAWKXEU

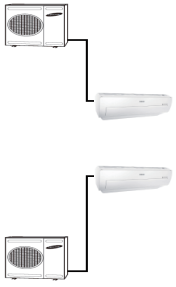
AR5500 : AR18TXFYAWKNEU+ AR18TXFYAWKXEU, AR24TXFYAWKNEU+ AR24TXFYAWKXEU

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

### 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

# 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 connected 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 (m <sup>2</sup> )
≤ 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](http://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](http://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.

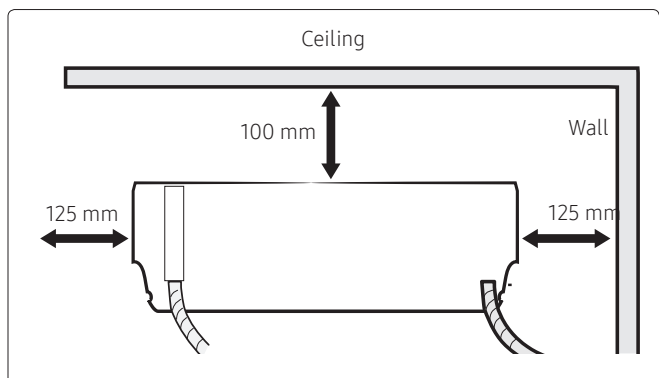
Examine the area that the customer wants to be air conditioned. Consider the following:

- 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](http://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

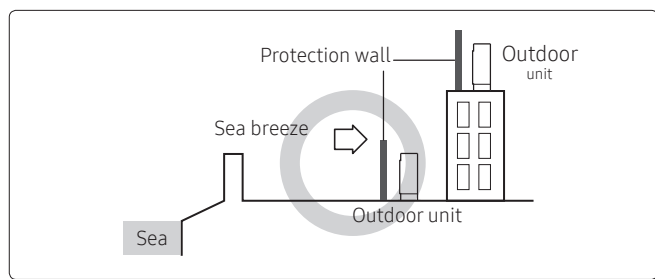
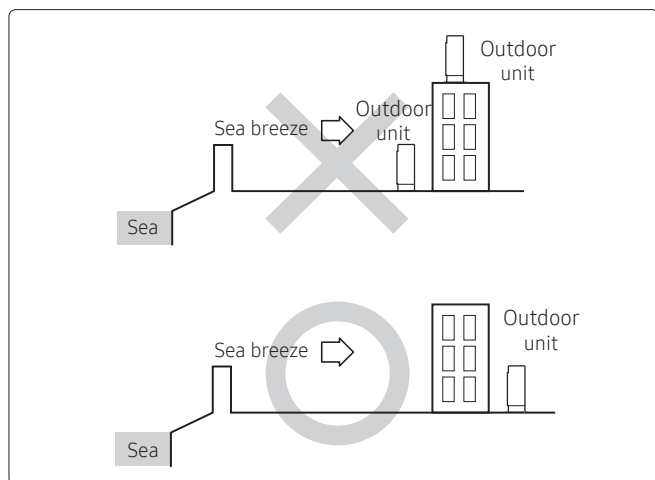
Make sure to follow below guides when installing at the seashore.

- 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 sea 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 residual 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](http://pvi.Samsung.com) site or Global Partner Portal site.



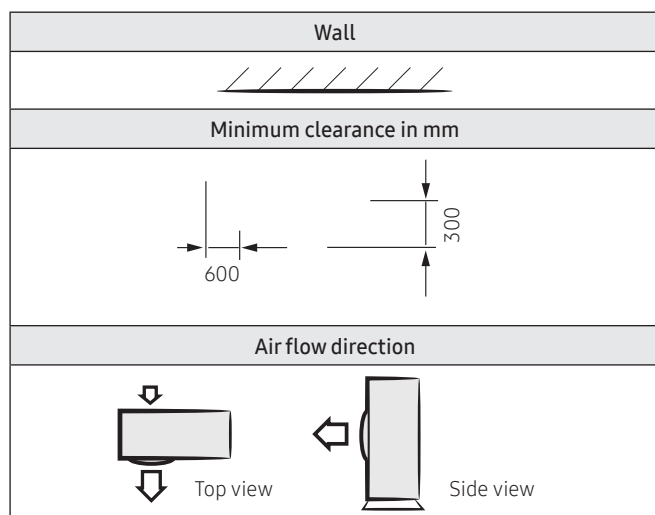
# 11. Installation



- 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.)

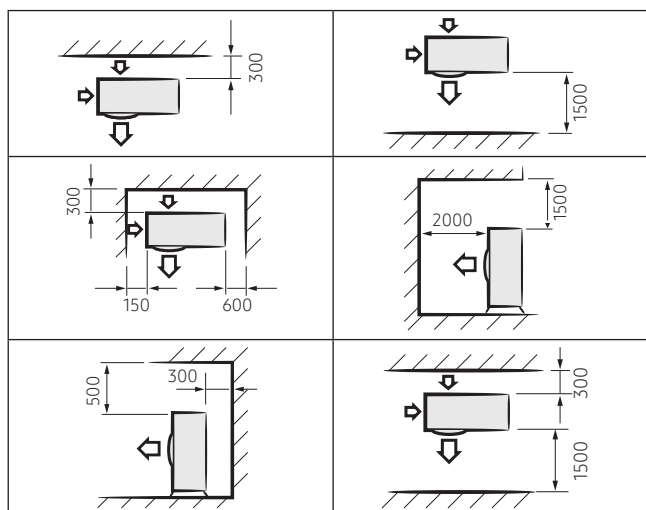
## Minimum clearances for the outdoor unit

Legends:



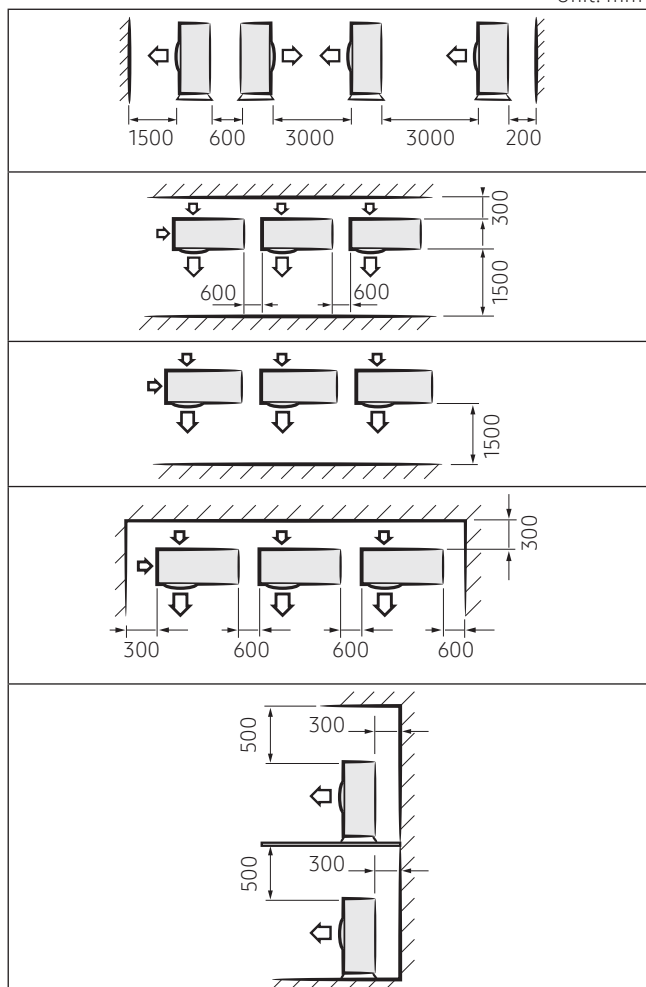
## Examples for installing one outdoor unit:

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](http://pvi.Samsung.com) site or Global Partner Portal site.

# 11. Installation

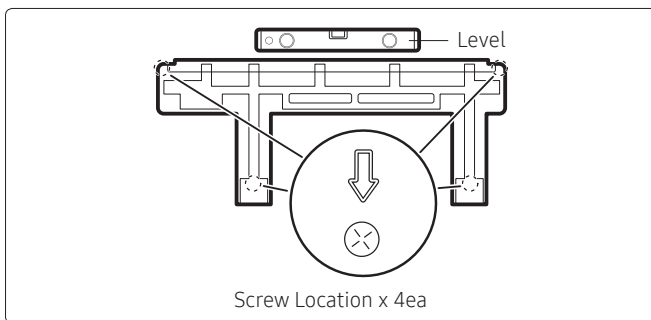
## Indoor Unit Installation

### 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.

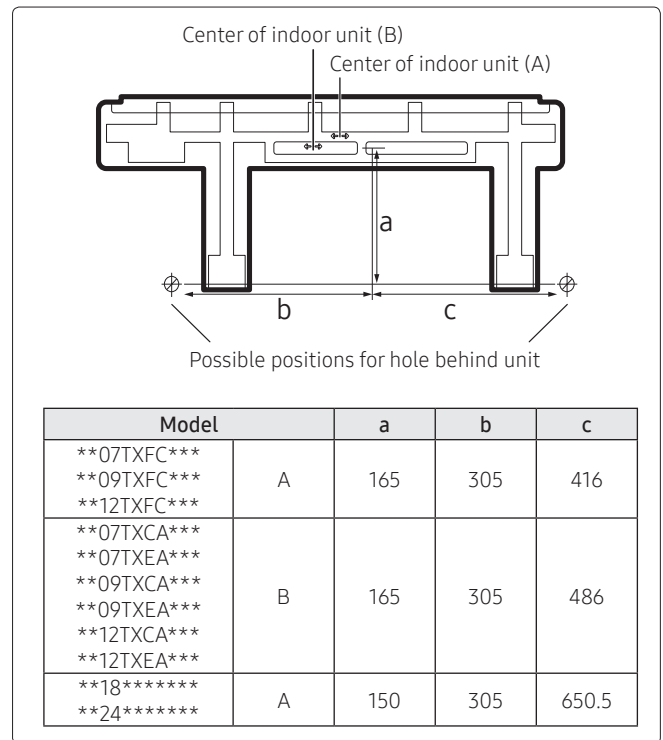
#### CAUTION

- 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.



### 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:



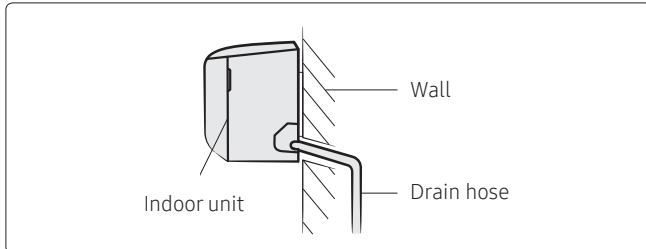
- If the hole cannot be positioned behind the unit, find a position as close to the unit as possible. The piping bundle that exits the unit and extends to the hole will need to be attached to the wall and will be visible inside the room.
- In relation to the bracket shown above, the unit is shipped with 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](http://pvi.Samsung.com) site or Global Partner Portal site.

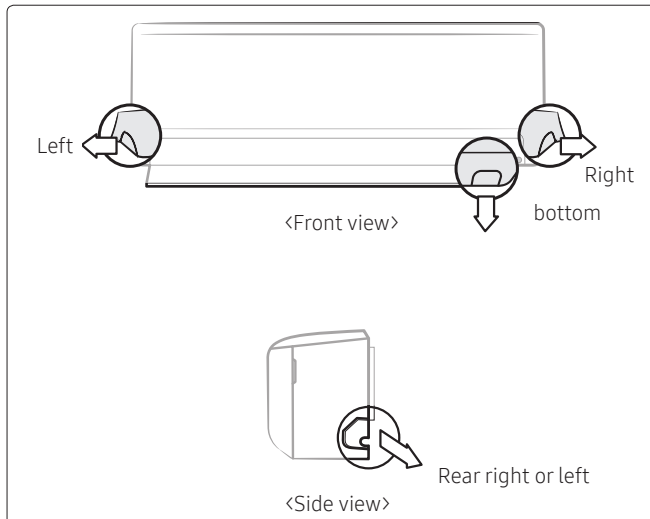
# 11. Installation

## Indoor Unit Installation

- 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.



- 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

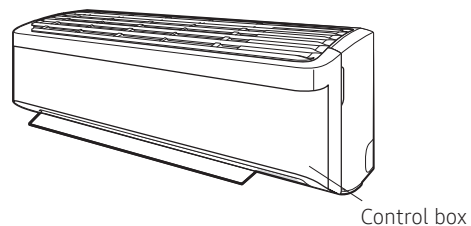
If using a multi system, install as described in the installation manual supplied with the outdoor unit.

### 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.

- Connect each wire to its corresponding terminal number.

Model	**07***** **09***** **12*****	**18***** **24*****
Power cable (Outdoor unit)	3G X 2.5 mm <sup>2</sup> , H07RN-F	3G X 2.5 mm <sup>2</sup> , H07RN-F
Outdoor-to-indoor power cable	3G X 1.0 mm <sup>2</sup> , H07RN-F	3G X 1.0 mm <sup>2</sup> , H07RN-F
Communication cable	2 X 0.75 mm <sup>2</sup> , H05RN-F	2 X 0.75 mm <sup>2</sup> , 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](http://pvi.Samsung.com) site or Global Partner Portal site.

# 11. Installation

## Indoor Unit Installation

### CAUTION

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

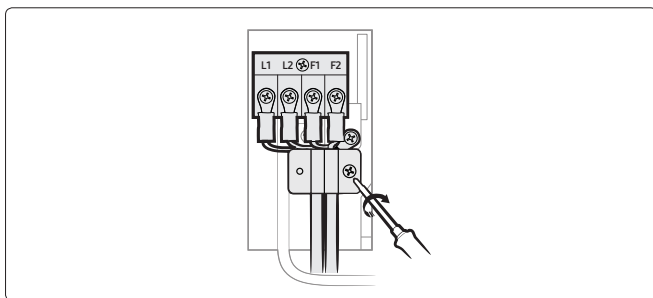
### CAUTION

- 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](http://pvi.Samsung.com) site or Global Partner Portal site.

# 11. Installation

## Outdoor Unit Installation

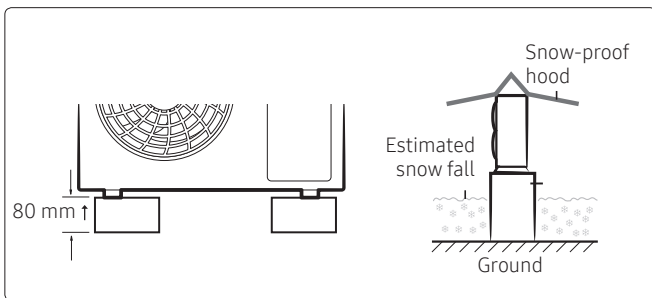
If using a multi system, install as described in the installation manual supplied with the outdoor unit.

### 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.

Model	(Unit: mm)	
	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](http://pvi.Samsung.com) site or Global Partner Portal site.

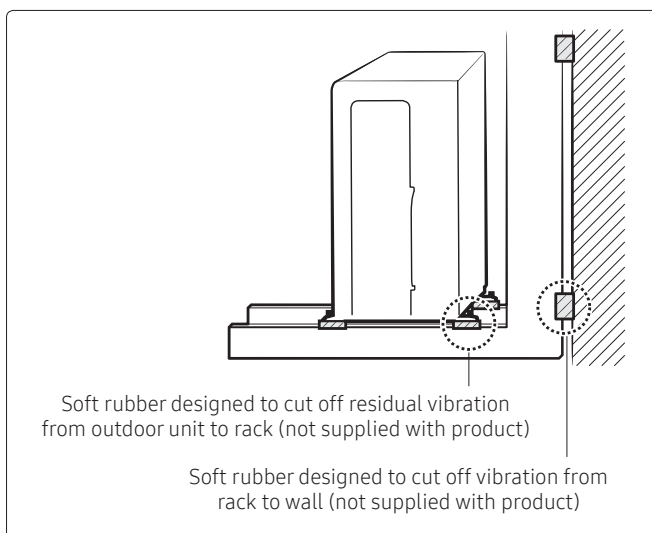
# 11. Installation

## 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](http://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.

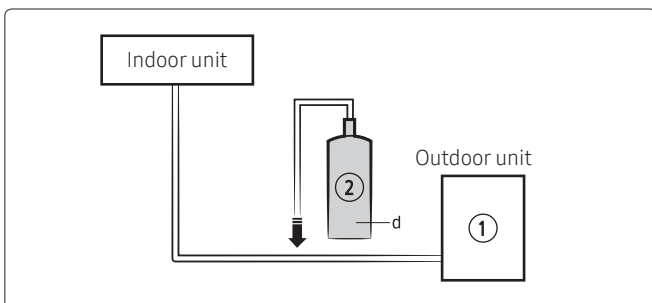
#### ⚠ CAUTION

- Inform user if the system contains 5 tCO<sub>2</sub>e 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.

- 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<sub>2</sub>e: kg x GWP/1000



Unit	Kg	tCO <sub>2</sub> e
❶, a		
❷, b		
❶+❷, 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.



2020.11  
Ver. 3.2

**Samsung Electronics Co., LTD.**

Head Office (Suwon Korea) 129, Samsung-Ro, Yeongtong-Gu, Suwon City, Gyeonggi-Do, Korea 16677

Website : [www.samsung.com](http://www.samsung.com), <https://partnerhub.samsung.com> Email : [airconditioner@samsung.com](mailto:airconditioner@samsung.com)

Images and data in this book may subject to change without prior notice.