

LG

MULTI

Indoor unit

R410A

0CTI0-07A (Replaces 0CTI0-06A)

TOTAL HVAC

SOLUTION

PROVIDER

ENGINEERING PRODUCT DATA BOOK

MULTI

Indoor unit

General information

Product data

MULTI

Indoor Unit

General information

1. Model Line Up
2. External Appearance
3. Nomenclature

1. Model Line Up


◆ Indoor Units for Multi Inverter

Category		Chassis Name	Capacity Index [kW (kBtu/h)]				
			2.1 (7)	2.5 (9)	3.5 (12)	5.0 (18)	7.1 (24)
Wall Mounted Unit	Deluxe	SJ	○	○	○		
		SK				○	○
	Standard plus	SJ	○	○	○		
		SK				○	○
	Standard	SJ	○	○	○		
		SK				○	○
ART COOL Mirror		SJ	○	○	○		
		SK				○	○
Ceiling Mounted Cassette	1-Way	TU		○	○		
		TT				○	○
	4-Way	TR	○	○	○		
		TQ				○	
	Dual Vane 4-Way	TP-B					○
Ceiling Concealed Duct	Middle Static Pressure	M1				○	○
	Low Static Pressure	L1		○			
		L2			○	○	
		L3					○

Note

1. Refer the Combination Table of Product Data Book for Outdoor Units.
2. This product contains Fluorinated greenhouse gases.

2. External Appearance

<p>• Wall Mounted Unit (Deluxe)</p> <p>AMNW07GSJL0 AMNW09GSJL0 AMNW12GSJL0 AMNW18GSKL0 AMNW24GSKL0</p> 	<p>• Ceiling Mounted Cassette 1-way</p> <p>AMNW09GTUC0 / AMNW09GTUA0 AMNW12GTUC0 / AMNW12GTUA0 AMNW18GTTC0 / AMNW18GTTA0 AMNW24GTTC0</p> 
<p>• Wall Mounted Unit (Standard plus)</p> <p>AMNW07GSJB0 AMNW09GSJB0 AMNW12GSJB0 / EMNW12GSJB0 AMNW18GSKB0 / EMNW18GSKB0 AMNW24GSKB0 / EMNW24GSKB0 AMNW09GSJB1 AMNW12GSJB1 AMNW18GSKB1 AMNW07GSJC0 AMNW09GSJC0 AMNW12GSJC0 AMNW18GSKC0</p> 	<p>• Ceiling Mounted Cassette 4-way</p> <p>AMNW09GTRA1 AMNW12GTRA1 AMNW18GTQA1</p> 
<p>• Wall Mounted Unit (Standard)</p> <p>AMNW07GSJA0 AMNW09GSJA0 AMNW12GSJA0 AMNW18GSKA0 AMNW24GSKA0</p> 	<p>• Ceiling Mounted Cassette (Dual Vane 4-Way)</p> <p>AMNW24GTBA0</p> 
<p>• ART COOL Mirror</p> <p>AMNW07GSJR0 AMNW09GSJR0 AMNW12GSJR0 AMNW18GSKR0 AMNW24GSKR0</p> 	<p>• Ceiling Concealed Duct – Middle static pressure</p> <p>AMNW18GM1A0 AMNW24GM1A0</p> 
<p>• Ceiling Concealed Duct – Low static pressure</p> <p>AMNW09GL1A2 AMNW12GL2A2 / EMNW12GL2A0 AMNW18GL2A2 / EMNW18GL2A0 AMNW24GL3A2 / EMNW24GL3A0</p> 	

Note

1. Refer the Combination Table of Product Data Book for Outdoor Units.
2. This product contains Fluorinated greenhouse gases.

3. Nomenclature

Model Name	AMN	W	12	G	S	J	A	0
No.	1	2	3	4	5	6	7	8

No.	Signification
1	A*N / E*N : Indoor units for using R410A * Indicates Product type M : Only for Multi systems
2	Model type W/H : DC Inverter Heat pump
3	Nominal Capacity Ex) 7,000 Btu/h Class → '07', 18,000 Btu/h Class → '18'
4	Electrical rating G: 1Ø, 220-240V, 50 Hz / 1Ø, 220V, 60 Hz
5,6	Chassis name
7	Functions for Ceiling Mounted Cassette A / C : Basic Functions for Wall Mounted Unit L : Ionizer + 4 Way Air flow + Wi-Fi B/C : Non-Ionizer + 4 Way Air flow + Wi-Fi A : Non-Ionizer + 2 Way Air flow Panel Color for ARTCOO Mirror(AMN- series) R : Mirror
8	Serial number

MULTI

Indoor unit

Product data

Wall Mounted Unit

ART COOL Mirror

Ceiling Mounted Cassette 1-way

Ceiling Mounted Cassette 4-way

Ceiling Mounted Cassette (Dual Vane 4-Way)

Ceiling Concealed Duct - Middle Static Pressure

Ceiling Concealed Duct - Low Static Pressure

MULTI

Indoor Unit

Wall Mounted Unit

- 1.List of functions**
- 2.Specification**
- 3.Dimensions**
- 4.Piping Diagrams**
- 5.Wiring Diagrams**
- 6.Air flow and temperature distributions (reference data)**
- 7.Sound levels**
- 8.Installation**

1. List of functions

■ Deluxe

◆ List of function

Category	Functions	AMNW07GSJL0, AMNW09GSJL0, AMNW12GSJL0 AMNW18GSKL0, AMNW24GSKL0
Air Flow	Air Supply Outlet	1
	Airflow Direction Control (left & right)	Auto
	Airflow Direction Control (up & down)	Auto
	Auto Swing (left & right)	O
	Auto Swing (up & down)	O
	Airflow Steps (fan/cool/heat)	6 / 6 / 6
	Fan Speed Auto*	Advanced
	Power Cool/Heat	O / O
	Swirl Wind*	X
	Refresh Mode**	X
	Smart Mode**	X
	Indirect Wind*	O
	Direct Wind*	O
Dry Operation	O	
Air Purification	Air Purify	X
	Ionizer	O
	UV-C	X
	Pre-Filter	O
	PM1.0 Filter	X
	Allergy Filter	X
Reliability	Hot Start	O
	Self Diagnosis	O
Convenience	Auto Mode	O
	Auto Dry Operation	O
	Auto Restart	O
	Child Lock*	O
	Forced Operation	O
	Group Control*	X
	Sleep Timer	O
	Turn On/Off Reservation	O
	Schedule*	O
	Two Thermistor Control*	O
External On/Off	X	
Installation	Drain Pump	X
	E.S.P. Control*	X
	High Ceiling Operation*	X
Special Functions	Wi-Fi	Embedded
	Auto Elevation Grille	X
	Human Detection Function**	X
	Floor Detection Function**	X

Note

- O : Applied, X : Not Applied, - : Unconfirmed or irrelevant
Embedded : A kit is provided by default for using this function when the product is manufactured.
Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field. Accessory line-ups varies by region, so check your local catalogue or local sales material.
- Some functions can be limited by remote controller.
- In case of cassette type indoor units, Air Purification Kit and Auto Elevation Grille functions are not applicable at the same time.
- 'Auto Mode' varies depending on the outdoor unit type.
 - Auto Change Over(Single Heat Pump Outdoor Unit)
 - Auto Mode Select(Multi Heat Pump Outdoor Unit)
 - Auto Intensity Control(Cooling Only Outdoor Unit)
- * : These functions need to connect the wired remote controller.
- ** : This functions need to connect to the Standard III wired remote controller.

1. List of functions

◆ Accessory Compatibility List

Category		Product	Remark	AMNW07GSJL0 AMNW09GSJL0 AMNW12GSJL0 AMNW18GSKL0 AMNW24GSKL0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
		PWLSSB21H	Heat Pump	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	Standard	PREMTB001	Standard II (White)	O
		PREMTBB01	Standard II (Black)	O
		PREMTB100**	Standard III (White)	O
Premium	PREMTA000(A/B)	Premium	X	
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	For 3rd Party Thermostat	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O
		PDRYCB500	For Modbus	X
Gateway	IDU PI485	PHNFP14A0	Without case	X
		PSNFP14A0	With case	X
ETC	Remote temperature sensor	PQRSTA0	-	X
	Zone controller	ABZCA	-	X
	CTI (Communication transfer interface)	PKFC0	-	X
	CO ₂ Sensor	PES-C0RV0	For ERV, ERV DX Indoor units	X
	Group control wire	PZCWRCG3	0.25m	X
	2-Remo Control Wire	PZCWRC2	0.25m	X
	Extension Wire	PZCWRC1	10m	O
Wi-Fi Controller*	PWFMDD200	-	X	

Note
1. O: Possible, X: Impossible, -: Not applicable, Embedded: Included with product.
2. *: Some advanced functions controlled by individual controller cannot be operated.
3. **: It could not be operated some functions.
4. If you need more detail, please refer to the **BECON** PDB or the manual of product. (<http://partner.lge.com/global> : Home> Doc.Library> Product > Control(BECON))

1. List of functions

■ Standard plus

◆ List of function

Category	Functions	AMNW07GSJB0, AMNW09GSJB0, AMNW12GSJB0 AMNW18GSKB0, AMNW24GSKB0 AMNW09GSJB1, AMNW12GSJB1, AMNW18GSKB1 EMNW12GSJB0, EMNW18GSKB0, EMNW24GSKB0 AMNW07GSJC0, AMNW09GSJC0, AMNW12GSJC0 AMNW18GSKC0
Air Flow	Air Supply Outlet	1
	Airflow Direction Control (left & right)	Auto
	Airflow Direction Control (up & down)	Auto
	Auto Swing (left & right)	O
	Auto Swing (up & down)	O
	Airflow Steps (fan/cool/heat)	6 / 6 / 6
	Fan Speed Auto*	Advanced
	Power Cool/Heat	O / O
	Swirl Wind*	X
	Refresh Mode**	X
	Smart Mode**	X
	Indirect Wind*	O
	Direct Wind*	O
Dry Operation	O	
Air Purification	Air Purify	X
	Ionizer	X
	UV-C	X
	Pre-Filter	O
	PM1.0 Filter	X
Allergy Filter	X	
Reliability	Hot Start	O
	Self Diagnosis	O
Convenience	Auto Mode	O
	Auto Dry Operation	O
	Auto Restart	O
	Child Lock*	O
	Forced Operation	O
	Group Control*	X
	Sleep Timer	O
	Turn On/Off Reservation	O
	Schedule*	O
	Two Thermistor Control*	O
External On/Off	X	
Installation	Drain Pump	X
	E.S.P. Control*	X
	High Ceiling Operation*	X
Special Functions	Wi-Fi	O
	Auto Elevation Grille	X
	Human Detection Function**	X
	Floor Detection Function**	X

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Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field. Accessory line-ups varies by region, so check your local catalogue or local sales material.
- Some functions can be limited by remote controller.
- In case of cassette type indoor units, Air Purification Kit and Auto Elevation Grille functions are not applicable at the same time.
- 'Auto Mode' varies depending on the outdoor unit type.
- Auto Change Over(Single Heat Pump Outdoor Unit)
- Auto Mode Select(Multi Heat Pump Outdoor Unit)
- Auto Intensity Control(Cooling Only Outdoor Unit)
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1. List of functions

◆ Accessory Compatibility List

Category	Product	Remark	AMNW05GSJB0 AMNW07GSJB0 AMNW09GSJB0 AMNW12GSJB0 AMNW15GSJB0 AMNW18GSKB0 AMNW24GSKB0 AMNW09GSJB1 AMNW12GSJB1 AMNW18GSKB1 EMNW12GSJB0 EMNW18GSKB0 EMNW24GSKB0 AMNW07GSJC0 AMNW09GSJC0 AMNW12GSJC0 AMNW18GSKC0	
Wireless Remote Controller	PQWRHQ0FDB	Heat Pump	O	
	PWLSSB21H	Heat Pump	O	
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	Standard	PREMTB001	Standard II (White)	O
		PREMTBB01	Standard II (Black)	O
		PREMTB100**	Standard III (White)	O
Premium	PREMTA000(A/B)	Premium	X	
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	For 3rd Party Thermostat	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O
		PDRYCB500	For Modbus	X
Gateway	IDU PI485	PHNFP14A0	Without case	X
		PSNFP14A0	With case	X
ETC	Remote temperature sensor	PQRSTA0	-	X
	Zone controller	ABZCA	-	X
	CTI (Communication transfer interface)	PKFC0	-	X
	CO ₂ Sensor	PES-C0RV0	For ERV, ERV DX Indoor units	X
	Group control wire	PZCWRCG3	0.25m	X
	2-Remo Control Wire	PZCWRC2	0.25m	X
	Extension Wire	PZCWRC1	10m	O
Wi-Fi Controller*	PWFMDD200	-	X	

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1. List of functions

■ Standard

◆ List of function

Category	Functions	AMNW07GSJA0 , AMNW09GSJA0, AMNW12GSJA0 AMNW18GSKA0, AMNW24GSKA0
Air Flow	Air Supply Outlet	1
	Airflow Direction Control (left & right)	Manual
	Airflow Direction Control (up & down)	Auto
	Auto Swing (left & right)	X
	Auto Swing (up & down)	O
	Airflow Steps (fan/cool/heat)	6 / 6 / 6
	Fan Speed Auto*	Advanced
	Power Cool/Heat	O / O
	Swirl Wind*	X
	Refresh Mode**	X
	Smart Mode**	X
	Indirect Wind*	O
	Direct Wind*	O
	Dry Operation	O
Air Purification	Air Purify	X
	Ionizer	X
	UV-C	X
	Pre-Filter	O
	PM1.0 Filter	X
	Allergy Filter	X
Reliability	Hot Start	O
	Self Diagnosis	O
Convenience	Auto Mode	O
	Auto Dry Operation	O
	Auto Restart	O
	Child Lock*	X
	Forced Operation	O
	Group Control*	X
	Sleep Timer	O
	Turn On/Off Reservation	O
	Schedule*	X
	Two Thermistor Control*	X
	External On/Off	X
Installation	Drain Pump	X
	E.S.P. Control*	X
	High Ceiling Operation*	X
Special Functions	Wi-Fi	X
	Auto Elevation Grille	X
	Human Detection Function**	X
	Floor Detection Function**	X

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Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field. Accessory line-ups varies by region, so check your local catalogue or local sales material.
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- Auto Change Over(Single Heat Pump Outdoor Unit)
- Auto Mode Select(Multi Heat Pump Outdoor Unit)
- Auto Intensity Control(Cooling Only Outdoor Unit)
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1. List of functions

◆ Accessory Compatibility List

Category		Product	Remark	AMNW07GSJA0 AMNW09GSJA0 AMNW12GSJA0 AMNW18GSKA0 AMNW24GSKA0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
		PWLSSB21H	Heat Pump	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	X
		PQRCHCA0Q(W)	for Hotel	X
	Standard	PREMTB001	Standard II (White)	X
		PREMTBB01	Standard II (Black)	X
		PREMTB100**	Standard III (White)	X
Premium	PREMTA000(A/B)	Premium	X	
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	X
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	X
		PDRYCB300	For 3rd Party Thermostat	X
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	X
		PDRYCB500	For Modbus	X
Gateway	IDU PI485	PHNFP14A0	Without case	X
		PSNFP14A0	With case	X
ETC	Remote temperature sensor	PQRSTA0	-	X
	Zone controller	ABZCA	-	X
	CTI (Communication transfer interface)	PKFC0	-	X
	CO ₂ Sensor	PES-C0RV0	For ERV, ERV DX Indoor units	X
	Group control wire	PZCWRCG3	0.25m	X
	2-Remo Control Wire	PZCWRC2	0.25m	X
	Extension Wire	PZCWRC1	10m	X
Wi-Fi Controller*	PWFMDD200	-	X	
Note				
1. O: Possible, X: Impossible, -: Not applicable, Embedded: Included with product.				
2. *: Some advanced functions controlled by individual controller cannot be operated.				
3. **: It could not be operated some functions.				
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2. Specifications

Deluxe

Model Name				AMNW07GSJL0	AMNW09GSJL0
Power Supply		V, Ø, Hz		220-240, 1, 50	220-240, 1, 50
				220, 1, 60	220, 1, 60
Power Input	Min./Nom./Max.		W	9 / 17 / 30	9 / 18 / 30
Running Current	Min./Nom./Max.		A	0.12 / 0.15 / 0.20	0.12 / 0.16 / 0.20
Casing Color			-	Munsell 7.5BG 10/2 (RAL 9016)	
Dimensions	Body	W x H x D	mm	837 x 308 x 189	837 x 308 x 189
		W x H x D	inch	32-15/16 x 12-1/8 x 7-7/16	32-15/16 x 12-1/8 x 7-7/16
	Shipping	W x H x D	mm	892 x 381 x 249	892 x 381 x 249
		W x H x D	inch	35-1/8 x 15 x 9-13/16	35-1/8 x 15 x 9-13/16
Weight	Body		kg (lbs)	8.3 (18.3)	8.3 (18.3)
	Shipping		kg (lbs)	11.6 (25.6)	11.6 (25.6)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 23 x 22) x 1	(2 x 23 x 22) x 1
	Face Area		m ² (ft ²)	0.20 (2.15)	0.20 (2.15)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m ³ /min	7.5 / 6.1 / 4.9	7.7 / 6.4 / 5.0
		H / M / L	ft ³ /min	265 / 215 / 173	272 / 226 / 177
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 x 1	30 x 1
Sound Pressure Level		H / M / L	dB(A)	35 / 31 / 26	36 / 32 / 27
Sound Power Level		Max.	dB(A)	56	56
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices			-	Fuse	
			-	Thermal Protector for Fan Motor	
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. x mm ² (AWG)	4C x 1.0 (18)	4C x 1.0 (18)

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).
4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.
 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

2. Specifications

Model Name			AMNW12GSJL0	AMNW18GSKL0	
Power Supply		V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	
			220, 1, 60	220, 1, 60	
Power Input	Min./Nom./Max.	W	9 / 19 / 30	26 / 39 / 60	
Running Current	Min./Nom./Max.	A	0.12 / 0.17 / 0.20	0.22 / 0.28 / 0.40	
Casing Color		-	Munsell 7.5BG 10/2 (RAL 9016)		
Dimensions	Body	W x H x D	mm	837 x 308 x 189	998 x 345 x 210
		W x H x D	inch	32-15/16 x 12-1/8 x 7-7/16	39-9/32 x 13-19/32 x 8-9/32
	Shipping	W x H x D	mm	892 x 381 x 249	1,063 x 420 x 274
		W x H x D	inch	35-1/8 x 15 x 9-13/16	41-27/32 x 16-17/32 x 10-25/32
Weight	Body	kg (lbs)	8.3 (18.3)	12.0 (26.5)	
	Shipping	kg (lbs)	11.6 (25.6)	15.8 (34.8)	
Heat Exchanger	(Row x Column x Fins per inch) x No.	-	(2 x 23 x 22) x 1	(2 x 16 x 20) x 1 + (1 x 8 x 22) x 1	
	Face Area	m ² (ft ²)	0.20 (2.15)	0.28 (3.01)	
Fan	Type	-	Cross Flow Fan	Cross Flow Fan	
	Air Flow Rate	H / M / L	m ³ /min	8.1 / 6.7 / 5.3	14.2 / 11.3 / 9.9
		H / M / L	ft ³ /min	286 / 237 / 187	501 / 399 / 350
Fan Motor	Type	-	BLDC	BLDC	
	Output	W x No.	30 x 1	60 x 1	
Sound Pressure Level	H / M / L	dB(A)	38 / 34 / 29	44 / 38 / 34	
Sound Power Level	Max.	dB(A)	56	60	
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)	Ø 12.7 (1/2)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices		-	Fuse		
		-	Thermal Protector for Fan Motor		
Connections Method		-	Flared	Flared	
Power and Communication Cable (included Earth)		No. x mm ² (AWG)	4C x 1.0 (18)	4C x 1.0 (18)	
Note					
1. Due to our policy of innovation some specifications may be changed without notification. 2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that. 3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741)). 4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity. <ul style="list-style-type: none"> • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB • Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m. 					

2. Specifications

Model Name			AMNW24GSKL0	
Power Supply		V, Ø, Hz	220-240, 1, 50	
			220, 1, 60	
Power Input	Min./Nom./Max.	W	27 / 45 / 60	
Running Current	Min./Nom./Max.	A	0.24 / 0.33 / 0.40	
Casing Color		-	Munsell 7.5BG 10/2 (RAL 9016)	
Dimensions	Body	W x H x D	mm	998 x 345 x 210
		W x H x D	inch	39-9/32 x 13-19/32 x 8-9/32
	Shipping	W x H x D	mm	1,063 x 420 x 274
		W x H x D	inch	14-27/32 x 16-17/32 x 10-25/32
Weight	Body	kg (lbs)	12.0 (26.5)	
	Shipping	kg (lbs)	15.9 (35.1)	
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 16 x 20) x 1 + (1 x 8 x 22) x 1
	Face Area		m ² (ft ²)	0.28 (3.01)
Fan	Type		-	Cross Flow Fan
	Air Flow Rate	H / M / L	m ³ /min	15.2 / 12.7 / 10.2
		H / M / L	ft ³ /min	537 / 448 / 360
Fan Motor	Type		-	BLDC
	Output		W x No.	60 x 1
Sound Pressure Level		H / M / L	dB(A)	46 / 41 / 36
Sound Power Level		Max.	dB(A)	64
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 12.7 (1/2)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0
Safety Devices		-	Fuse	
		-	Thermal Protector for Fan Motor	
Connections Method		-	Flared	
Power and Communication Cable (included Earth)		No. x mm ² (AWG)	4C x 1.0 (18)	
Note				
1. Due to our policy of innovation some specifications may be changed without notification.				
2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.				
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).				
4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.				
<ul style="list-style-type: none"> • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB • Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m. 				

2. Specifications

■ Standard plus

Model Name			AMNW07GSJB0	
Power Supply		V, Ø, Hz	220-240, 1, 50	
			220, 1, 60	
Power Input	Min./Nom./Max.	W	11 / 17 / 30	
Running Current	Min./Nom./Max.	A	0.10 / 0.14 / 0.20	
Casing Color		-	Munsell 7.5BG 10/2 (RAL 9016)	
Dimensions	Body	W x H x D	mm	837 x 308 x 189
		W x H x D	inch	32-15/16 x 12-1/8 x 7-7/16
	Shipping	W x H x D	mm	909 x 383 x 256
		W x H x D	inch	35-25/32 x 15-3/32 x 10-3/32
Weight	Body	kg (lbs)	8.7 (19.2)	
	Shipping	kg (lbs)	12.0 (26.5)	
Heat Exchanger	(Row x Column x Fins per inch) x No.	-	(2 x 15 x 21) x 1	
	Face Area	m ² (ft ²)	0.19 (2.05)	
Fan	Type	-	Cross Flow Fan	
	Air Flow Rate	H / M / L	m ³ /min	8.6 / 7.2 / 5.6
		H / M / L	ft ³ /min	304 / 254 / 198
Fan Motor	Type	-	BLDC	
	Output	W x No.	30 x 1	
Sound Pressure Level	H / M / L	dB(A)	35 / 32 / 27	
Sound Power Level	Max.	dB(A)	57	
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0
Safety Devices		-	Fuse	
		-	Thermal Protector for Fan Motor	
Connections Method		-	Flared	
Power and Communication Cable (included Earth)		No. x mm ² (AWG)	4C x 1.0 (18)	

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).
4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.
 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

2. Specifications

Model Name			AMNW09GSJB0	AMNW12GSJB0 EMNW12GSJB0
Power Supply		V, Ø, Hz	220-240, 1, 50	220-240, 1, 50
			220, 1, 60	220, 1, 60
Power Input	Min./Nom./Max.		W	11 / 18 / 30
Running Current	Min./Nom./Max.		A	0.10 / 0.16 / 0.20
Casing Color			Munsell 7.5BG 10/2 (RAL 9016)	
Dimensions	Body	W x H x D	mm	837 x 308 x 189
		W x H x D	inch	32-15/16 x 12-1/8 x 7-7/16
	Shipping	W x H x D	mm	909 x 383 x 256
		W x H x D	inch	35-25/32 x 15-3/32 x 10-3/32
Weight	Body		kg (lbs)	8.7 (19.2)
	Shipping		kg (lbs)	12.0 (26.5)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 15 x 21) x 1
	Face Area		m ² (ft ²)	0.19 (2.05)
Fan	Type		-	Cross Flow Fan
	Air Flow Rate	H / M / L	m ³ /min	9.2 / 7.4 / 5.6
		H / M / L	ft ³ /min	325 / 261 / 198
Fan Motor	Type		-	BLDC
	Output		W x No.	30 x 1
Sound Pressure Level		H / M / L	dB(A)	36 / 33 / 27
Sound Power Level		Max.	dB(A)	57
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0
Safety Devices			-	Fuse
			-	Thermal Protector for Fan Motor
Connections Method			-	Flared
Power and Communication Cable (included Earth)			No. x mm ² (AWG)	4C x 1.0 (18)
<p>Note</p> <ol style="list-style-type: none"> Due to our policy of innovation some specifications may be changed without notification. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741). Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity. <ul style="list-style-type: none"> Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m. 				

2. Specifications

Model Name				AMNW18GSKB0 EMNW18GSKB0	AMNW24GSKB0 EMNW24GSKB0
Power Supply		V, Ø, Hz		220-240, 1, 50	220-240, 1, 50
				220, 1, 60	220, 1, 60
Power Input	Min./Nom./Max.		W	26 / 39 / 60	27 / 45 / 60
Running Current	Min./Nom./Max.		A	0.22 / 0.28 / 0.40	0.24 / 0.33 / 0.40
Casing Color			-	Munsell 7.5BG 10/2 (RAL 9016)	
Dimensions	Body	W x H x D	mm	998 x 345 x 210	998 x 345 x 210
		W x H x D	inch	39-9/32 x 13-19/32 x 8-9/32	39-9/32 x 13-19/32 x 8-9/32
	Shipping	W x H x D	mm	1,080 x 422 x 281	1,080 x 422 x 281
		W x H x D	inch	42-17/32 x 16-5/8 x 11-1/16	42-17/32 x 16-5/8 x 11-1/16
Weight	Body		kg (lbs)	12.0 (26.5)	12.8 (28.2)
	Shipping		kg (lbs)	15.8 (34.8)	16.2 (35.7)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 16 x 20) x 1 + (1 x 8 x 22) x 1	(2 x 16 x 20) x 1 + (1 x 8 x 22) x 1
	Face Area		m ² (ft ²)	0.28 (3.01)	0.28 (3.01)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m ³ /min	14.2 / 11.3 / 9.9	15.2 / 12.7 / 10.2
		H / M / L	ft ³ /min	501 / 399 / 350	537 / 449 / 360
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 x 1	60 x 1
Sound Pressure Level		H / M / L	dB(A)	44 / 38 / 35	46 / 41 / 36
Sound Power Level		Max.	dB(A)	59	65
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 12.7 (1/2)	Ø 12.7 (1/2)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices			-	Fuse	
			-	Thermal Protector for Fan Motor	
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. x mm ² (AWG)	4C x 1.0 (18)	4C x 1.0 (18)
Note					
1. Due to our policy of innovation some specifications may be changed without notification.					
2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.					
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741)).					
4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.					
<ul style="list-style-type: none"> • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB • Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m. 					

2. Specifications

Model Name			AMNW09GSJB1	AMNW12GSJB1	
Power Supply		V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	
Power Input	Min./Nom./Max.	W	11 / 18 / 30	11 / 19 / 30	
Running Current	Min./Nom./Max.	A	0.10 / 0.16 / 0.20	0.10 / 0.17 / 0.20	
Casing Color		-	Munsell 7.5BG 10/2 (RAL 9016)		
Dimensions	Body	W x H x D	mm	837 × 308 × 189	837 × 308 × 189
		W x H x D	inch	32-15/16 x 12-1/8 x 7-7/16	32-15/16 x 12-1/8 x 7-7/16
	Shipping	W x H x D	mm	909 x 383 x 256	909 x 383 x 256
		W x H x D	inch	35-25/32 x 15-3/32 x 10-3/32	35-25/32 x 15-3/32 x 10-3/32
Weight	Body	kg (lbs)	8.5 (18.8)	8.5 (18.8)	
	Shipping	kg (lbs)	10.7 (23.6)	10.7 (23.6)	
Heat Exchanger	(Row x Column x Fins per inch) x No.	-	(2 x 15 x 19) x 1	(2 x 15 x 19) x 1	
	Face Area	m ² (ft ²)	0.19 (2.05)	0.19 (2.05)	
Fan	Type	-	Cross Flow Fan	Cross Flow Fan	
	Air Flow Rate	H / M / L	m ³ /min	10.2 / 8.4 / 5.7	10.7 / 9.2 / 5.7
		H / M / L	ft ³ /min	360 / 297 / 201	378 / 325 / 201
Fan Motor	Type	-	BLDC	BLDC	
	Output	W x No.	30 x 1	30 x 1	
Sound Pressure Level	H / M / L	dB(A)	36 / 33 / 27	40 / 35 / 27	
Sound Power Level	Max.	dB(A)	56	56	
Piping Connections	Liquid	mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	
	Gas	mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices		-	Fuse		
		-	Thermal Protector for Fan Motor		
Connections Method		-	Flared	Flared	
Power and Communication Cable (included Earth)		No. x mm ² (AWG)	4C x 0.75(18)	4C x 0.75(18)	
Note					
1. Due to our policy of innovation some specifications may be changed without notification. 2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that. 3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741)). 4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity. <ul style="list-style-type: none"> • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB • Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m. 					

2. Specifications

Model Name			AMNW18GSKB1	
Power Supply		V, Ø, Hz	220-240, 1, 50	
Power Input	Min./Nom./Max.		W	
Running Current	Min./Nom./Max.		A	
Casing Color		-	Munsell 7.5BG 10/2 (RAL 9016)	
Dimensions	Body	W x H x D	mm	998 x 345 x 210
		W x H x D	inch	39-9/32 x 13-19/32 x 8-9/32
	Shipping	W x H x D	mm	1,063 x 420 x 274
		W x H x D	inch	41-27/32 x 16-17/32 x 10-25/32
Weight	Body		kg (lbs)	11.4 (25.1)
	Shipping		kg (lbs)	13.2 (29.1)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 16 x 18) x 1
	Face Area		m ² (ft ²)	0.24 (2.58)
Fan	Type		-	Cross Flow Fan
	Air Flow Rate	H / M / L	m ³ /min	14.5 / 13.0 / 10.5
		H / M / L	ft ³ /min	512 / 459 / 370
Fan Motor	Type		-	BLDC
	Output		W x No.	30 x 1
Sound Pressure Level		H / M / L	dB(A)	44 / 39 / 34
Sound Power Level		Max.	dB(A)	59
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 12.7 (1/2)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0
Safety Devices			-	Fuse
			-	Thermal Protector for Fan Motor
Connections Method			-	Flared
Power and Communication Cable (included Earth)		No. x mm ² (AWG)	4C x 0.75 (18)	
Note				
1. Due to our policy of innovation some specifications may be changed without notification. 2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that. 3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741)). 4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity. <ul style="list-style-type: none"> • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB • Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m. 				

2. Specifications

Model Name				AMNW07GSJC0	AMNW09GSJC0
Power Supply		V, Ø, Hz		220-240,1, 50	220-240,1, 50
Capacity(Nominal)	Cooling	kW		2.1	2.6
	Heating	kW		2.4	3.2
Power Input	Min./Nom./Max.		W	11 / 17 / 30	11 / 18 / 30
Running Current	Min./Nom./Max.		A	0.10 / 0.14 / 0.20	0.10 / 0.16 / 0.20
Casing Color			-	Munsell 7.5BG 10/2 (RAL 9016)	
Dimensions	Body	W x H x D	mm	818 × 316 × 189	818 × 316 × 189
		W x H x D	inch	32-7/32 x 12-7/16 x 7-7/16	32-7/32 x 12-7/16 x 7-7/16
	Shipping	W x H x D	mm	892 x 381 x 249	892 x 381 x 249
		W x H x D	inch	35-1/8 x 15 x 9-13/16	35-1/8 x 15 x 9-13/16
Weight	Body		kg (lbs)	8.2 (18.1)	8.2 (18.1)
	Shipping		kg (lbs)	10.2 (22.5)	10.2 (22.5)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 23 x 22) x 1	(2 x 23 x 22) x 1
	Face Area		m ² (ft ²)	0.20 (2.15)	0.20 (2.15)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m ³ /min	7.2 / 5.8 / 4.6	7.6 / 6.2 / 4.8
		H / M / L	ft ³ /min	254 / 204 / 148	268 / 218 / 169
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 x 1	30 x 1
Sound Pressure Level		H / M / L	dB(A)	35 / 31 / 26	36 / 32 / 27
Sound Power Level		Rated	dB(A)	56	56
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices			-	Fuse	Fuse
			-	Thermal Protector for Fan Motor	
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. x mm ² (AWG)	4C x 0.75 (18)	4C x 0.75 (18)
Note					
1. Due to our policy of innovation some specifications may be changed without notification.					
2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.					
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).					
4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.					
• Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB					
• Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB					
• Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.					

2. Specifications

Model Name				AMNW12GSJC0	AMNW18GSKC0
Power Supply		V, Ø, Hz		220-240,1, 50	220-240,1, 50
Capacity(Nominal)	Cooling	kW		3.5	5.3
	Heating	kW		4.0	6.3
Power Input	Min./Nom./Max.		W	11 / 19 / 30	26 / 39 / 60
Running Current	Min./Nom./Max.		A	0.10 / 0.17 / 0.20	0.22 / 0.28 / 0.40
Casing Color			-	Munsell 7.5BG 10/2 (RAL 9016)	
Dimensions	Body	W x H x D	mm	818 × 316 × 189	975 x 354 x 209
		W x H x D	inch	32-7/32 x 12-7/16 x 7-7/16	38-3/8 x 13-15/16 x 8-7/32
	Shipping	W x H x D	mm	892 x 381 x 249	1,063 x 420 x 274
		W x H x D	inch	35-1/8 x 15 x 9-13/16	41-27/32 x 16-17/32 x 10-25/32
Weight	Body		kg (lbs)	8.2 (18.1)	10.9 (24.0)
	Shipping		kg (lbs)	10.2 (22.5)	13.9 (30.6)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 23 x 22) x 1	(2 x 16 x 18) x 1
	Face Area		m ² (ft ²)	0.20 (2.15)	0.24 (2.58)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m ³ /min	8.0 / 6.6 / 5.5	15.8 / 12.4 / 10.0
		H / M / L	ft ³ /min	282 / 233 / 177	558 / 438 / 353
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 x 1	30 x 1
Sound Pressure Level		H / M / L	dB(A)	38 / 34 / 29	44 / 38 / 34
Sound Power Level		Rated	dB(A)	56	59
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)	Ø 12.7 (1/2)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices			-	Fuse	Fuse
			-	Thermal Protector for Fan Motor	
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. x mm ² (AWG)	4C x 0.75 (18)	4C x 0.75 (18)
Note					
1. Due to our policy of innovation some specifications may be changed without notification.					
2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.					
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).					
4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.					
• Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB					
• Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB					
• Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.					

2. Specifications

Standard

Model Name			AMNW07GSJA0	AMNW09GSJA0	
Power Supply		V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	
Power Input		Min./Nom./Max.	220, 1, 60	220, 1, 60	
Running Current	Min./Nom./Max.	W x No.	11 / 17 / 30	11 / 18 / 30	
Casing Color		-	Munsell 7.5BG 10/2 (RAL 9016)		
Dimensions	Body	W x H x D	mm	837 x 308 x 189	837 x 308 x 189
		W x H x D	inch	32-15/16 x 12-1/8 x 7-7/16	32-15/16 x 12-1/8 x 7-7/16
	Shipping	W x H x D	mm	909 x 383 x 256	909 x 383 x 256
		W x H x D	inch	35-25/32 x 15-3/32 x 10-3/32	35-25/32 x 15-3/32 x 10-3/32
Weight	Body	kg (lbs)	8.5 (18.7)	8.5 (18.7)	
	Shipping	kg (lbs)	11.0 (24.3)	11.0 (24.3)	
Heat Exchanger	(Row x Column x Fins per inch) x No.	-	(2 x 15 x 21) x 1	(2 x 15 x 21) x 1	
	Face Area	m ² (ft ²)	0.19 (2.05)	0.19 (2.05)	
Fan	Type	-	Cross Flow Fan	Cross Flow Fan	
	Air Flow Rate	H / M / L	m ³ /min	8.6 / 7.2 / 5.6	9.2 / 7.4 / 5.6
		H / M / L	ft ³ /min	304 / 254 / 198	325 / 261 / 198
Fan Motor	Type	-	BLDC	BLDC	
	Output	W x No.	30 x 1	30 x 1	
Sound Pressure Level	H / M / L	dB(A)	35 / 32 / 27	36 / 33 / 27	
Sound Power Level	Max.	dB(A)	57	57	
Piping Connections	Liquid	mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)	
	Gas	mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices		-	Fuse		
Connections Method		-	Flared	Connections Method	
Power and Communication Cable (included Earth)		No. x mm ² (AWG)	4C x 1.0 (18)	4C x 1.0 (18)	

Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).
- Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.
 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

2. Specifications

Model Name				AMNW12GSJA0	AMNW18GSKA0
Power Supply		V, Ø, Hz		220-240, 1, 50	220-240, 1, 50
				220, 1, 60	220, 1, 60
Power Input	Min./Nom./Max.		W x No.	11 / 19 / 30	26 / 39 / 60
Running Current	Min./Nom./Max.		A	0.10 / 0.17 / 0.20	0.22 / 0.28 / 0.40
Casing Color			-	Munsell 7.5BG 10/2 (RAL 9016)	
Dimensions	Body	W x H x D	mm	837 x 308 x 189	998 x 345 x 210
		W x H x D	inch	32-15/16 x 12-1/8 x 7-7/16	39-9/32 x 13-19/32 x 8-9/32
	Shipping	W x H x D	mm	909 x 383 x 256	1,080 x 422 x 281
		W x H x D	inch	35-25/32 x 15-3/32 x 10-3/32	42-17/32 x 16-5/8 x 11-1/16
Weight	Body		kg (lbs)	8.5 (18.7)	11.6 (25.6)
	Shipping		kg (lbs)	11.0 (24.3)	14.6 (32.2)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 15 x 21) x 1	(2 x 16 x 20) x 1 + (1 x 8 x 22) x 1
	Face Area		m ² (ft ²)	0.19 (2.05)	0.28 (3.01)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m ³ /min	9.6 / 8.1 / 5.6	14.2 / 11.3 / 9.9
		H / M / L	ft ³ /min	339 / 286 / 198	501 / 399 / 350
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 x 1	30 x 1
Sound Pressure Level		H / M / L	dB(A)	40 / 35 / 27	44 / 38 / 35
Sound Power Level		Max.	dB(A)	57	59
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)	Ø 12.7(1/2)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices			-	Fuse	
			-	Thermal Protector for Fan Motor	
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. x mm ² (AWG)	4C x 1.0 (18)	4C x 1.0 (18)
Note					
1. Due to our policy of innovation some specifications may be changed without notification. 2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that. 3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741)). 4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity. <ul style="list-style-type: none"> • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB • Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m. 					

2. Specifications

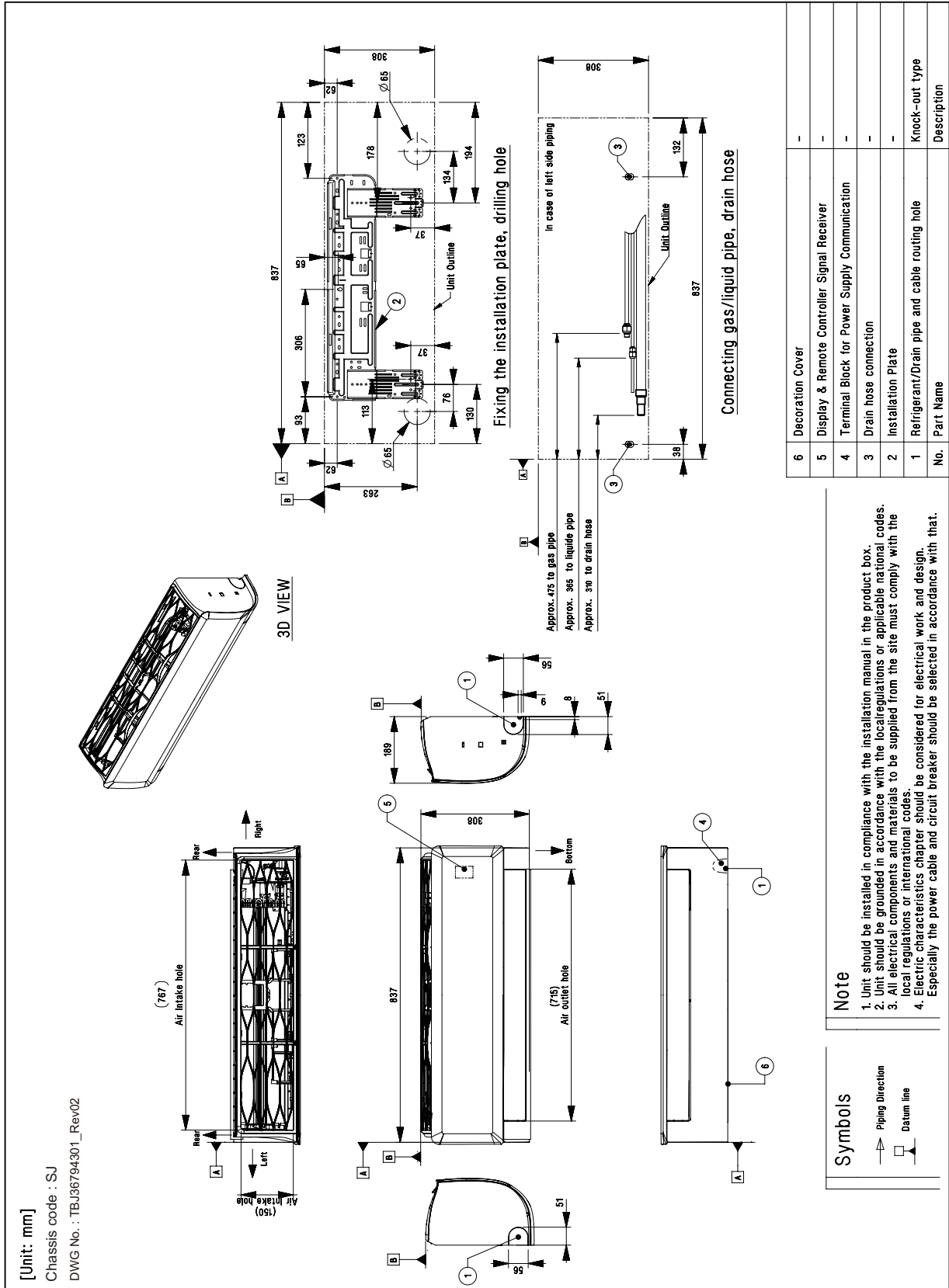
Model Name			AMNW24GSKA0	
Power Supply		V, Ø, Hz	220-240, 1, 50	
			220, 1, 60	
Power Input	Min./Nom./Max.	W x No.	27 / 45 / 60	
Running Current	Min./Nom./Max.	A	0.24 / 0.33 / 0.40	
Casing Color		-	White	
Dimensions	Body	W x H x D	mm	998 x 345 x 210
		W x H x D	inch	39-9/32 x 13-19/32 x 8-9/32
	Shipping	W x H x D	mm	1,080 x 422 x 281
		W x H x D	inch	42-17/32 x 16-5/8 x 11-1/16
Weight	Body	kg (lbs)	12.5 (27.6)	
	Shipping	kg (lbs)	15.8 (34.8)	
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 16 x 20) x 1 + (1 x 8 x 22) x 1
	Face Area		m ² (ft ²)	0.28 (3.01)
Fan	Type		-	Cross Flow Fan
	Air Flow Rate	H / M / L	m ³ /min	15.2 / 12.7 / 10.2
		H / M / L	ft ³ /min	537 / 448 / 360
Fan Motor	Type		-	BLDC
	Output		W x No.	60 x 1
Sound Pressure Level		H / M / L	dB(A)	46 / 41 / 36
Sound Power Level		Max.	dB(A)	65
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 12.7(1/2)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0
Safety Devices		-	Fuse	
		-	Thermal Protector for Fan Motor	
Connections Method		-	Flared	
Power and Communication Cable (included Earth)		No. x mm ² (AWG)	4C x 1.0 (18)	
Note				
1. Due to our policy of innovation some specifications may be changed without notification.				
2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.				
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).				
4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.				
<ul style="list-style-type: none"> • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB • Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m. 				

3. Dimensions

3.1 Dimensional Drawings

◆ SJ Chassis

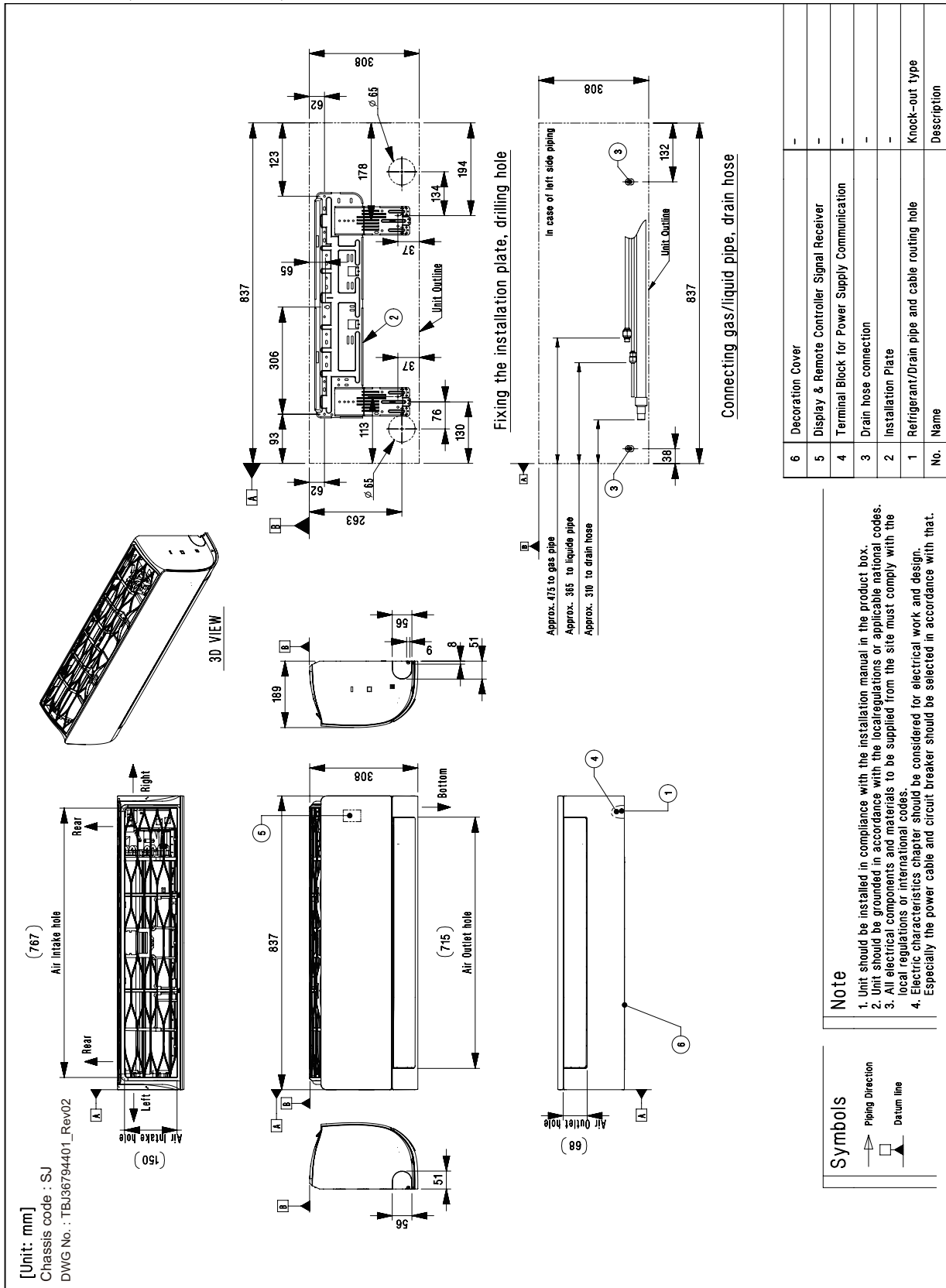
AMNW-GSJL0



3. Dimensions

◆ SJ Chassis

AMNW-GSJB-, EMNW-GSJB0, AMNW-GSJA0



Symbols

	Piping Direction
	Datum line

Note

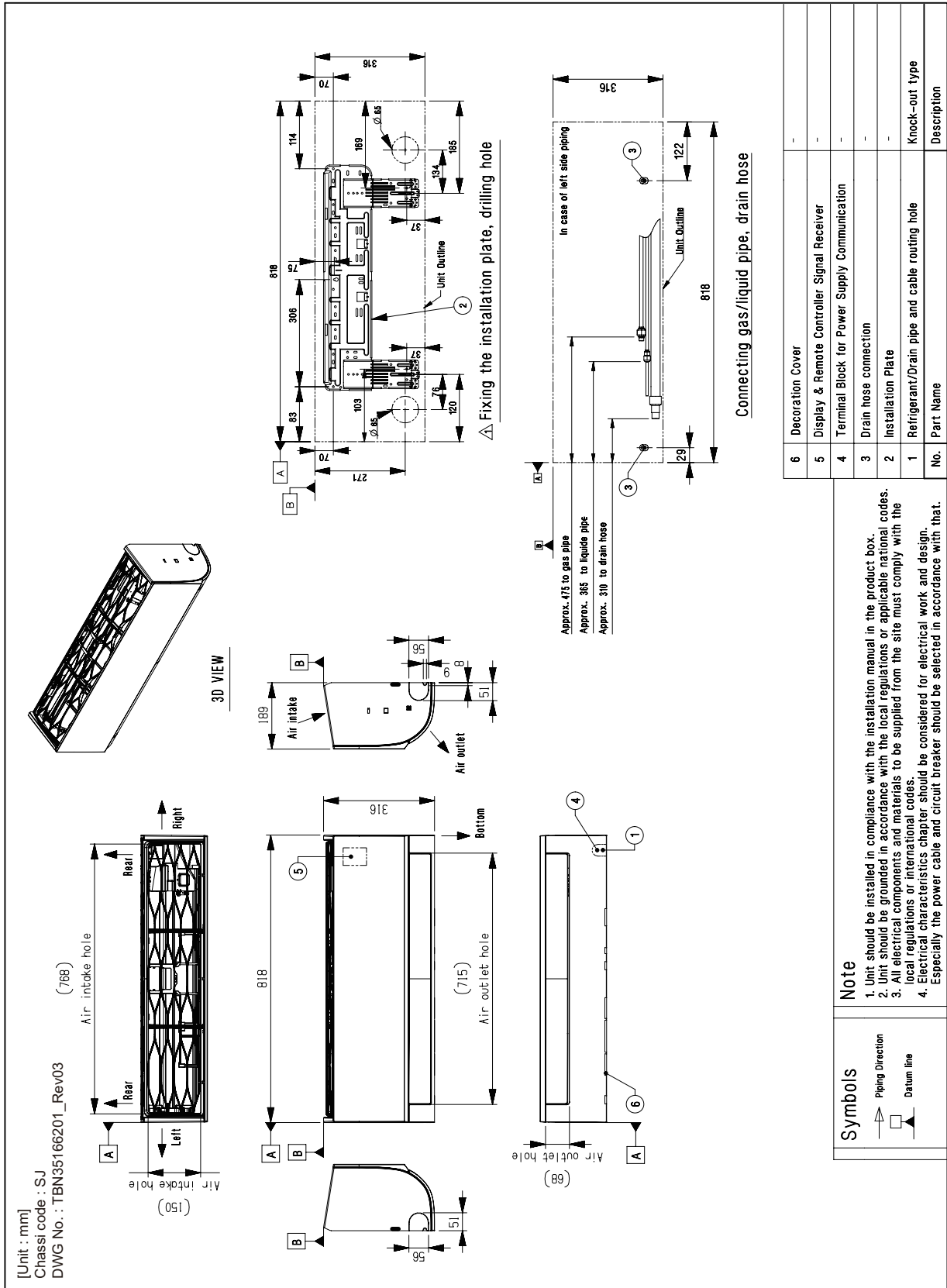
- Unit should be installed in compliance with the installation manual in the product box.
- Unit should be grounded in accordance with the local regulations or applicable national codes.
- All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.
- Electric characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

No.	Name	Description
6	Decoration Cover	-
5	Display & Remote Controller Signal Receiver	-
4	Terminal Block for Power Supply Communication	-
3	Drain hose connection	-
2	Installation Plate	-
1	Refrigerant/Drain pipe and cable routing hole	Knock-out type

3. Dimensions

◆ SJ Chassis

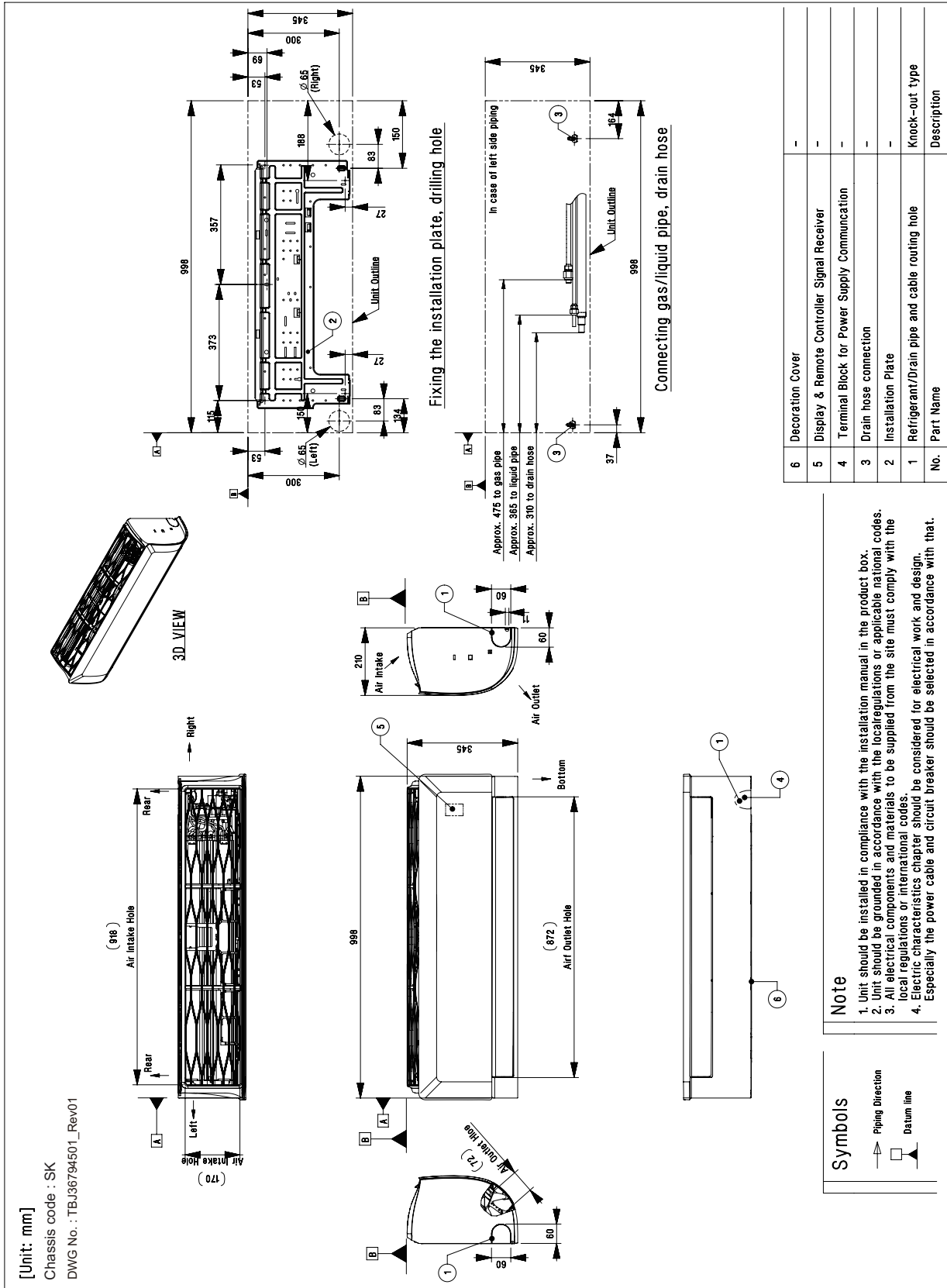
AMNW07GSJC0, AMNW09GSJC0, AMNW12GSJC0



3. Dimensions

◆ SK Chassis

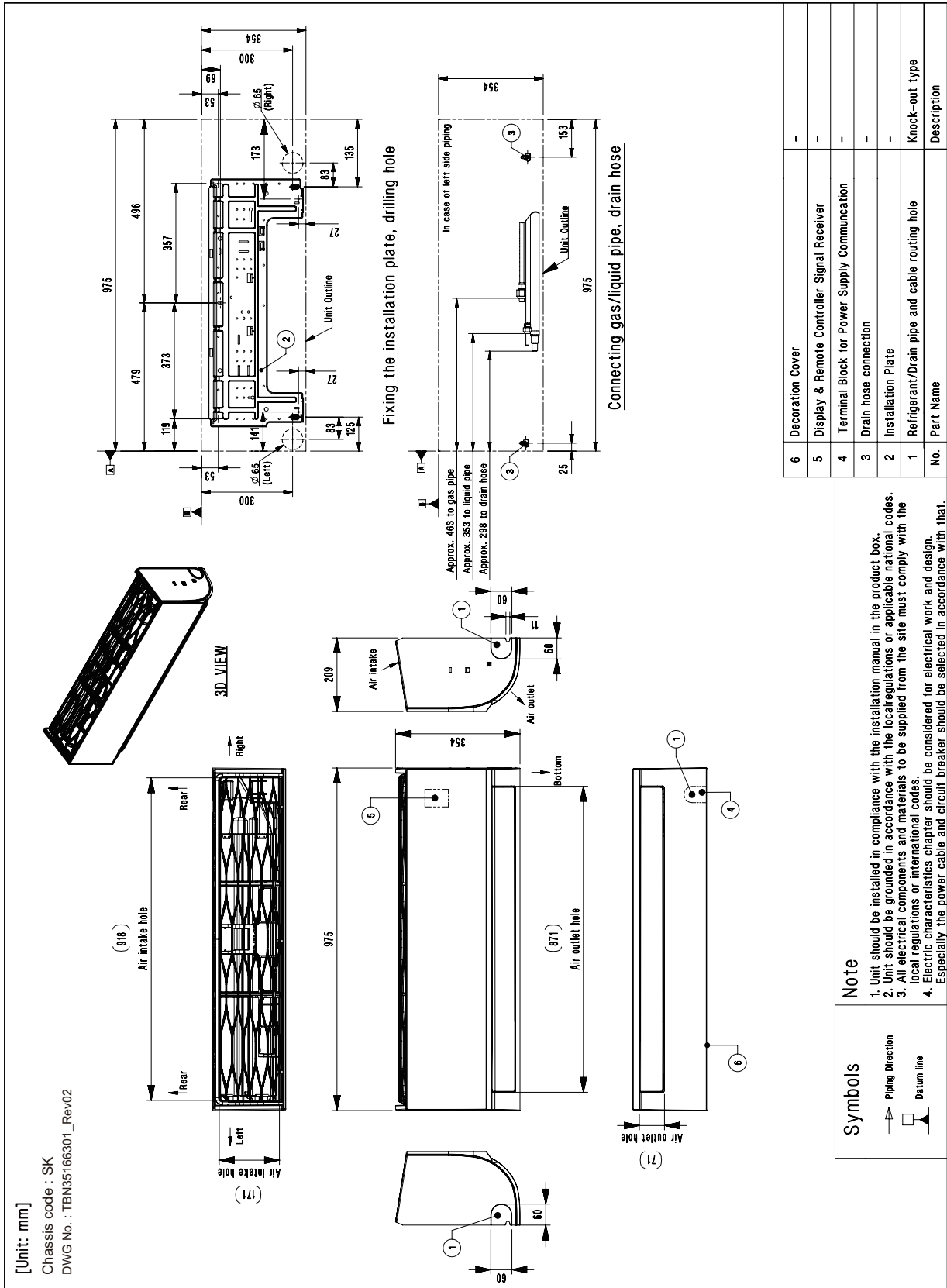
AMNW-GSKL0 / AMNW-GSKB-, EMNW-GSKB0 / AMNW-GSKA0



3. Dimensions

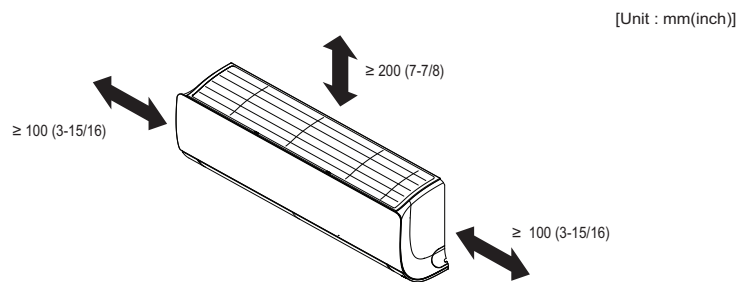
◆ SK Chassis

AMNW18GSKC0



3. Dimensions

3.2 Installation Space

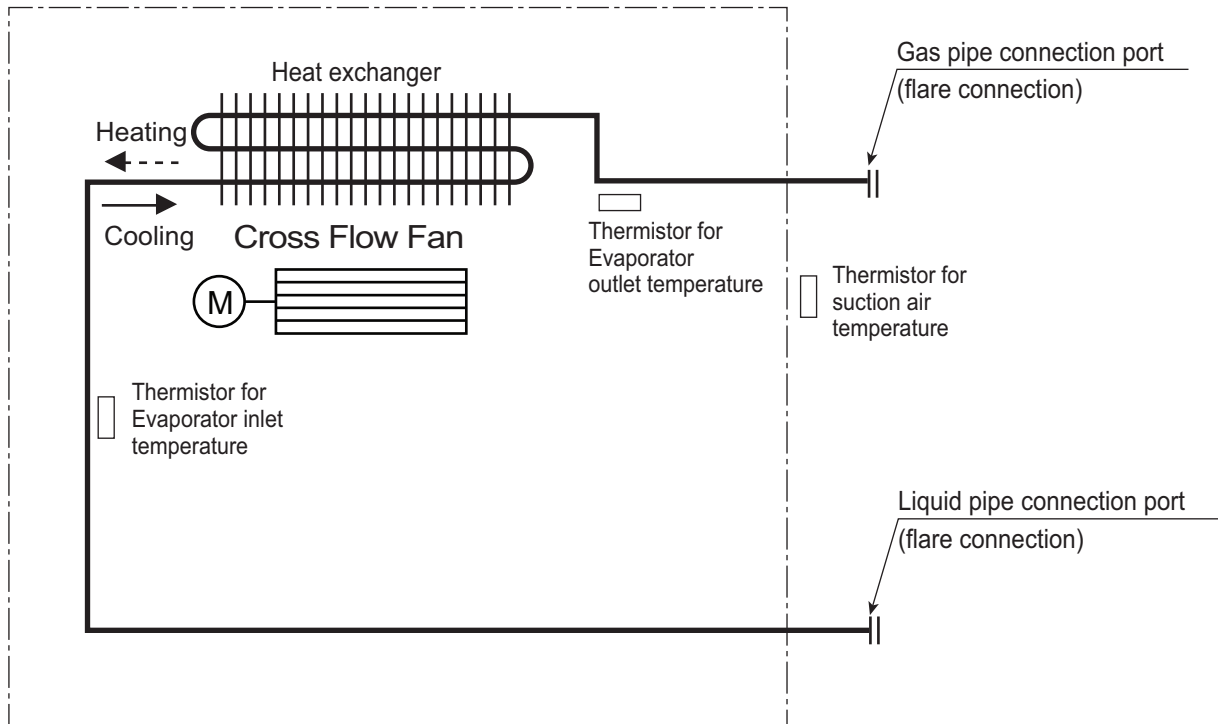


Note

- Places where products are installed should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- According to type of indoor unit, external appearance or installed structure could be different.
- According to product type, model line up, sales region..etc, applicability of each chassis could be different.

4. Piping diagrams

■ Models : Deluxe, Standard Plus, Standard

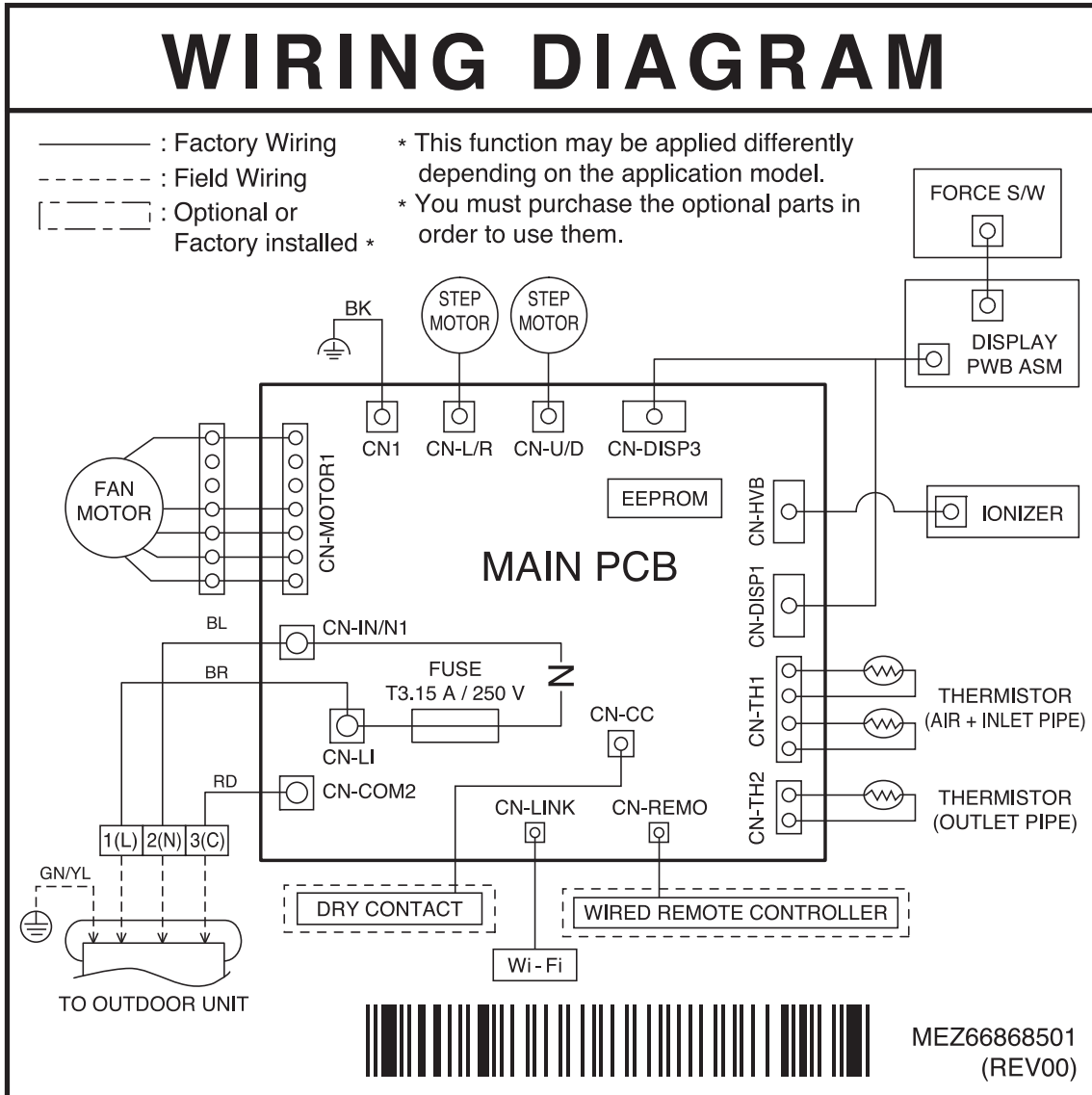


Description	PCB Connector
Thermistor for suction air temperature	CN-TH1
Thermistor for evaporator inlet temperature	
Thermistor for evaporator outlet temperature	CN-TH2

5. Wiring Diagrams

5.1 Deluxe

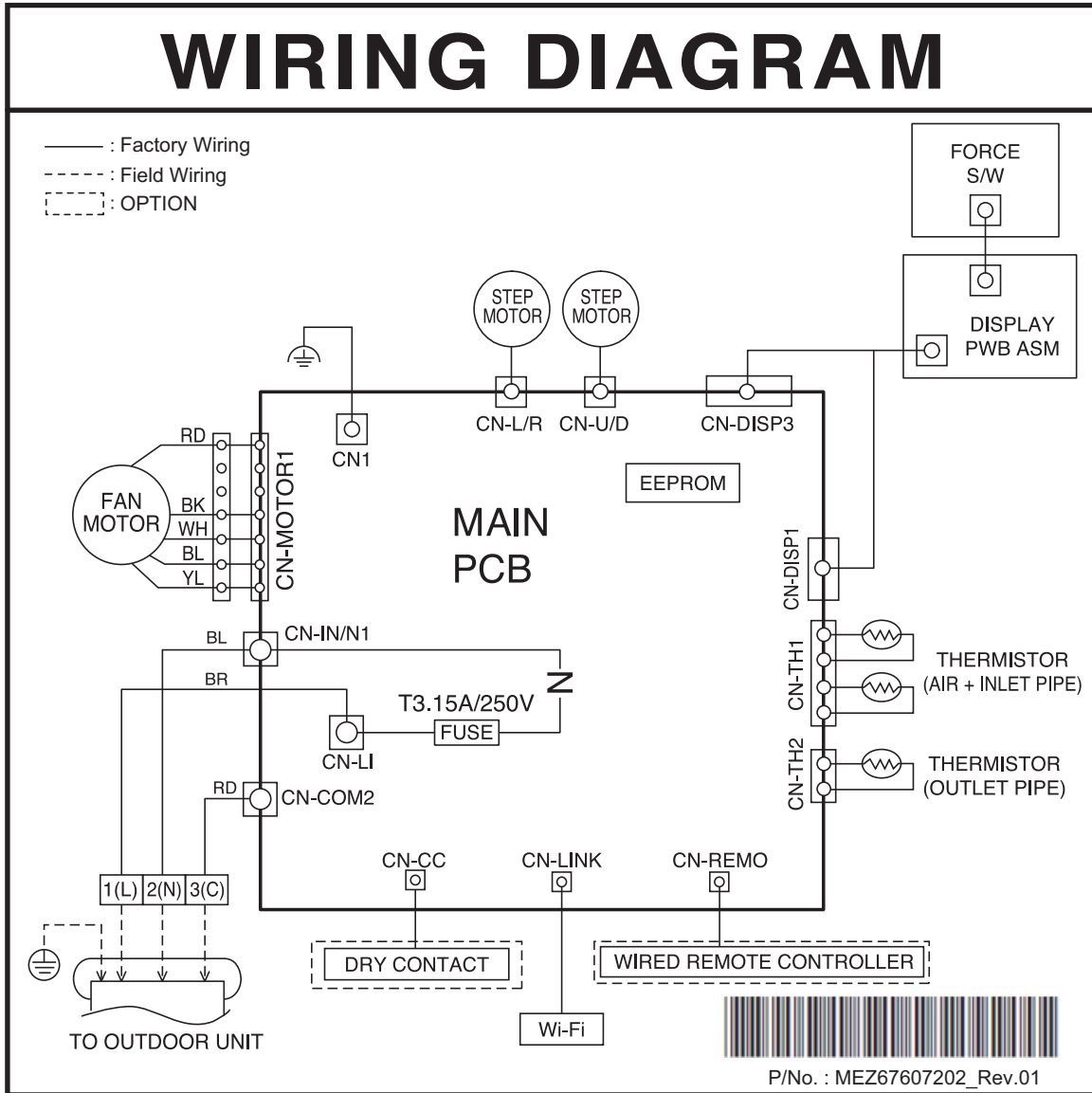
■ Model : AMNW07/09/12GSJL0, AMNW18/24GSKL0



5. Wiring Diagrams

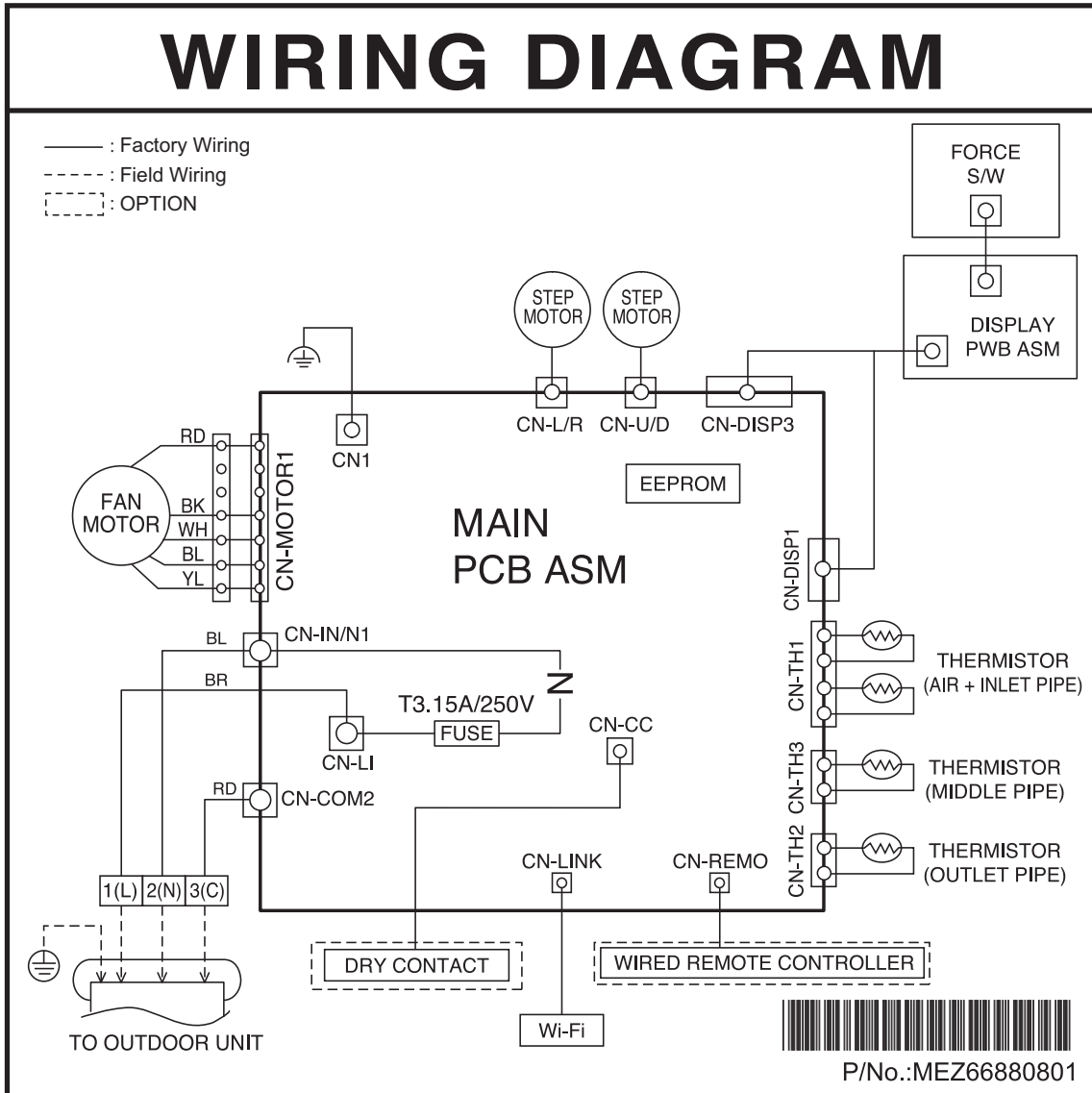
5.2 Standard plus

■ Models : AMNW07/09/12GSJB0, AMNW18/24GSKB0



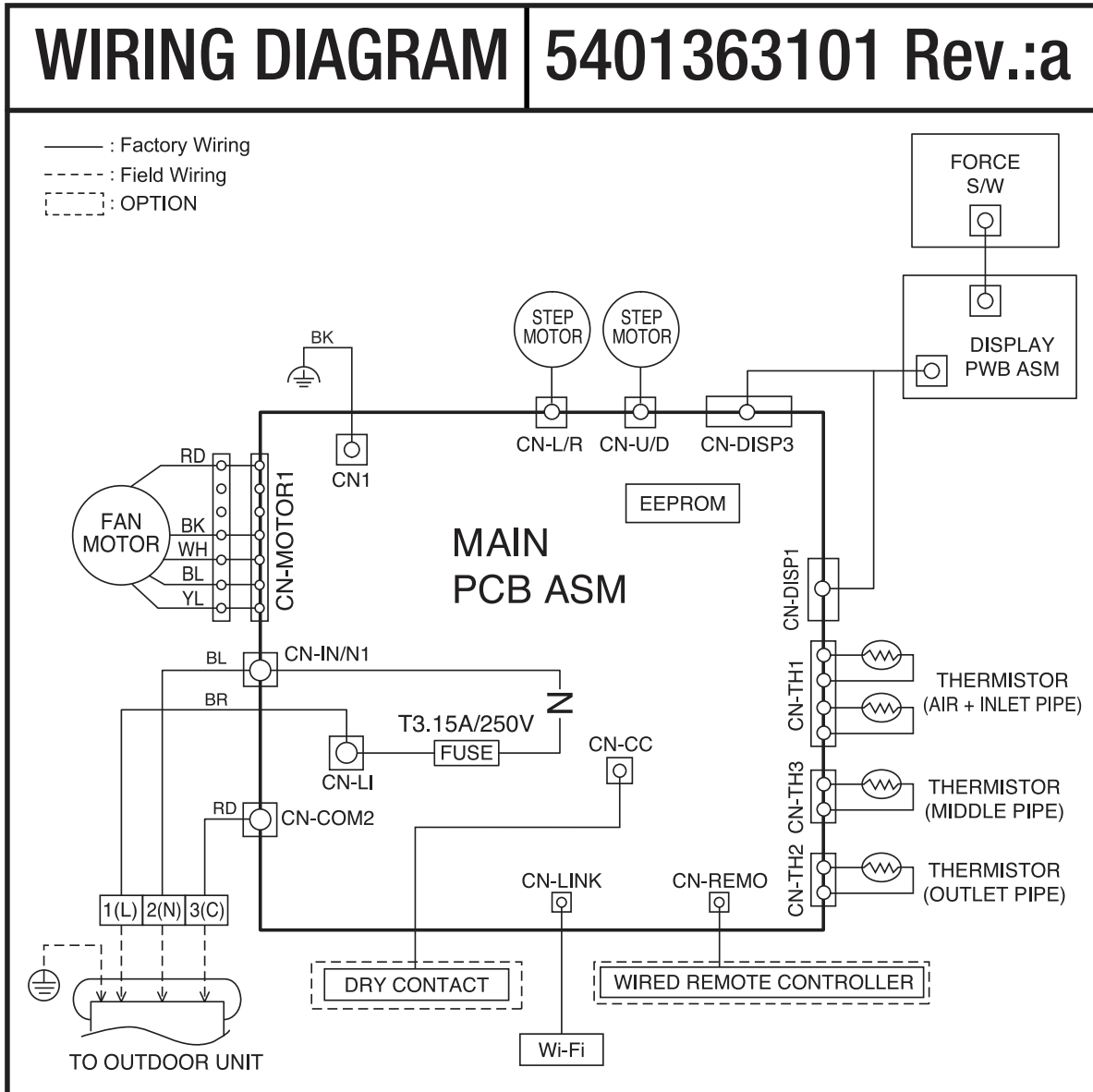
5. Wiring Diagrams

Models : AMNW09/12GSJB1, AMNW18GSKB1



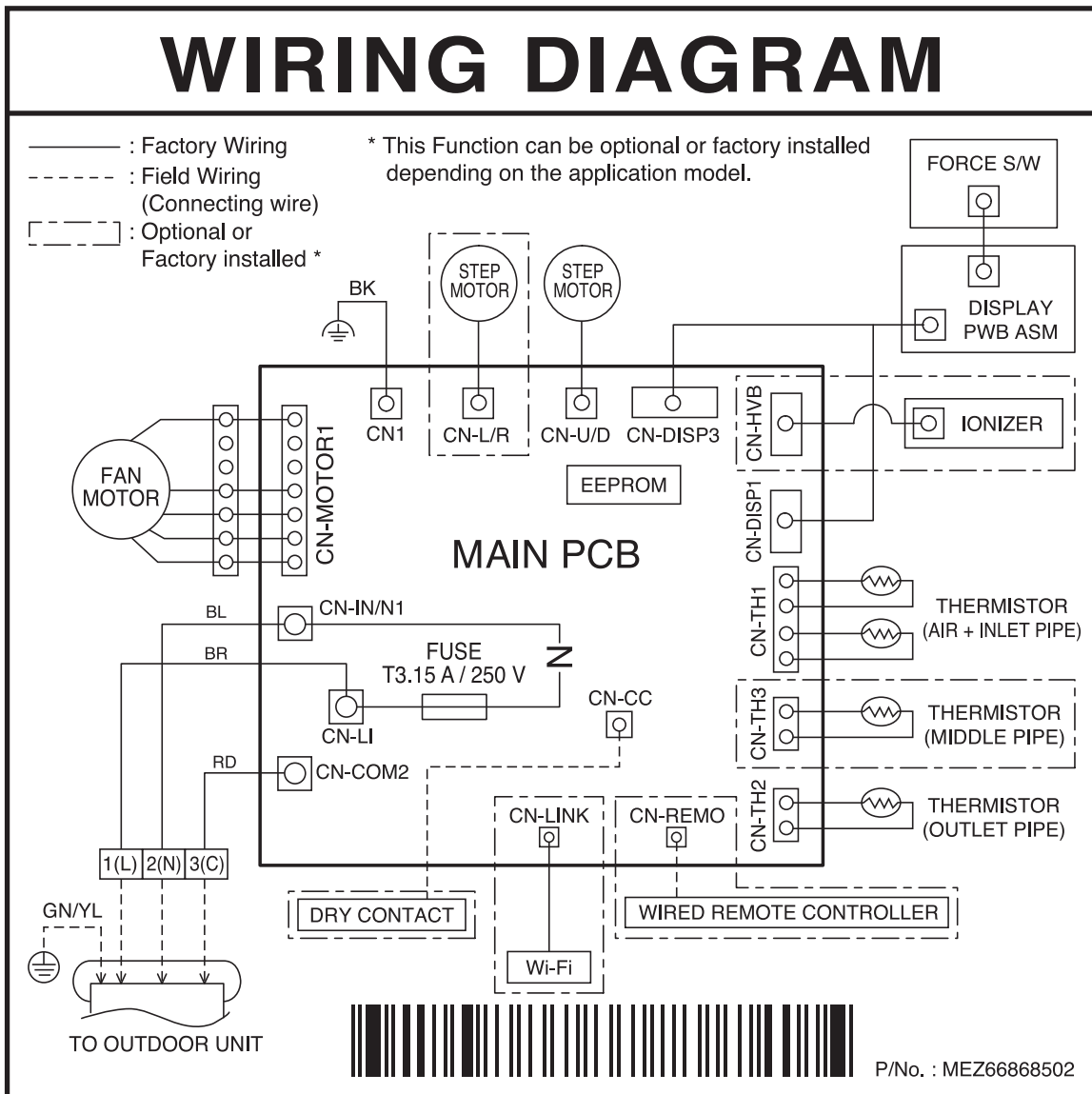
5. Wiring Diagrams

Models : EMNW12GSJB0, EMNW18/24GSKB0



5. Wiring Diagrams

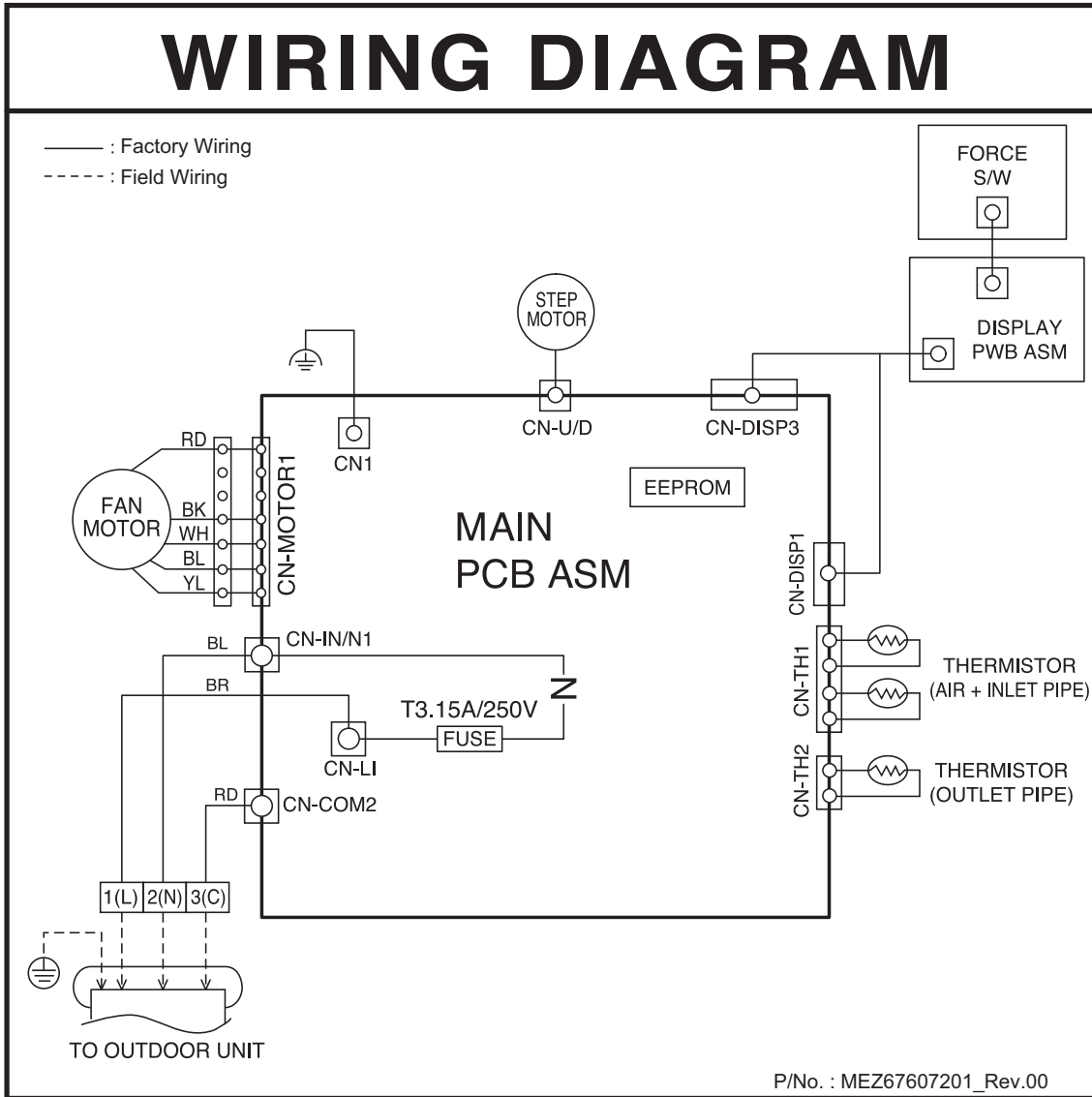
■ Models : AMNW07/09/12GSJC0, AMNW18GSKC0



5. Wiring Diagrams

5.3 Standard

■ Models : AMNW07/09/12GSJA0, AMNW18/24GSKA0



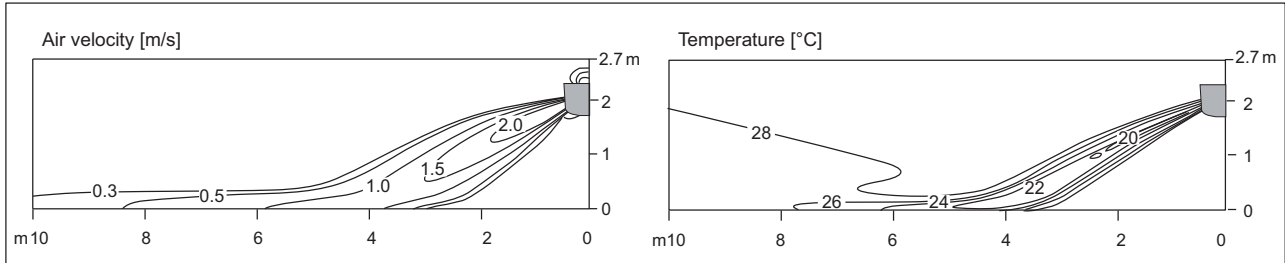
6. Air flow and temperature distributions (reference data)

■ Models : AMNW07/09/12GSJL0, AMNW07/09/12GSJC0

◆ Cooling

Side View

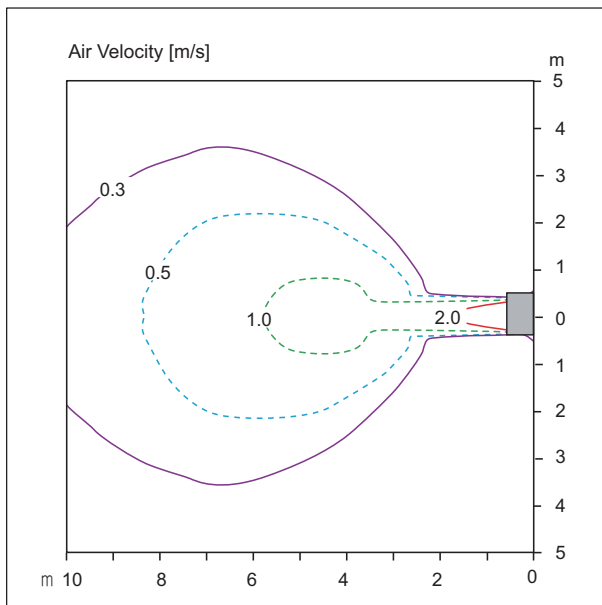
Discharge angle: 35°



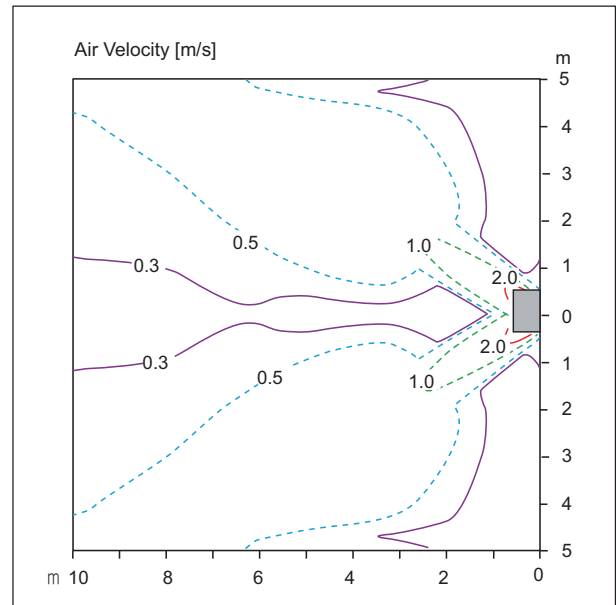
- Vertical Louver : Center
- Fan speed : Super High

Top View

Discharge angle: 35°



- Vertical Louver : Center
- Vertical Vane : 0°
- Fan speed : Super High
- Air speed 0.3m/s Range : 11.0m



- Vertical Louver : Left & Right
- Vertical Vane : 55°
- Fan speed : Super High

Note

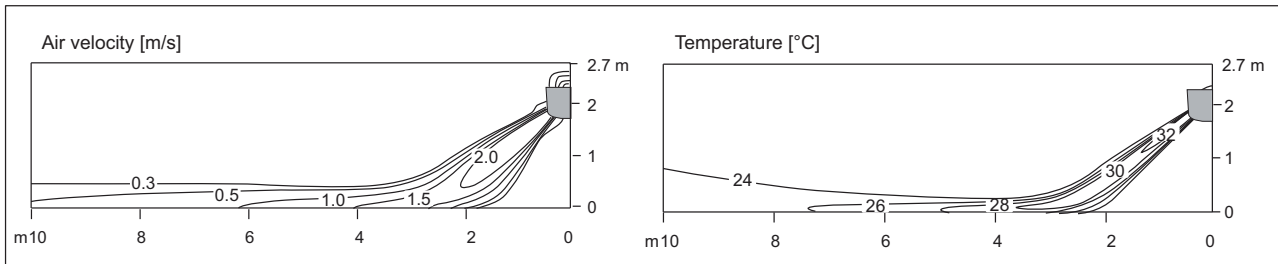
- These figures are accordance with normal certain condition and environment. (Airflow step is 'Super High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

6. Air flow and temperature distributions (reference data)

◆ Heating

Side View

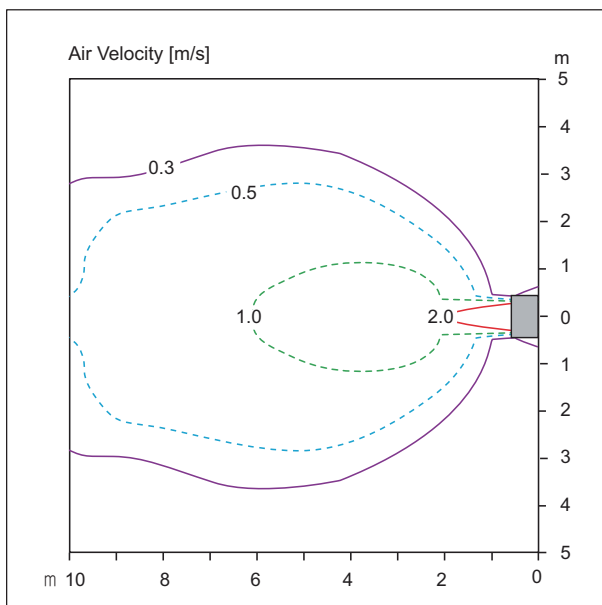
Discharge angle: 55°



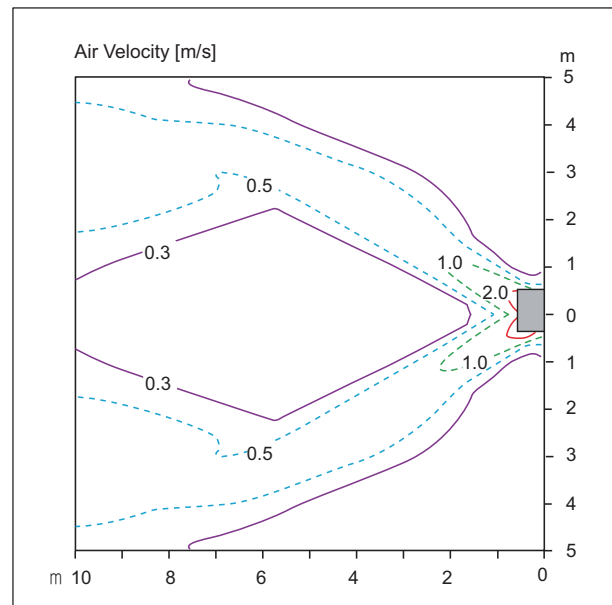
- Vertical Louver : Center
- Fan speed : Super High

Top View

Discharge angle: 55°



- Vertical Louver : Center
- Vertical Vane : 0°
- Fan speed : Super High
- Air speed 0.3m/s Range : 13.2m



- Vertical Louver : Left & Right
- Vertical Vane : 55°
- Fan speed : Super High

Note

- These figures are accordance with normal certain condition and environment. (Airflow step is 'Super High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

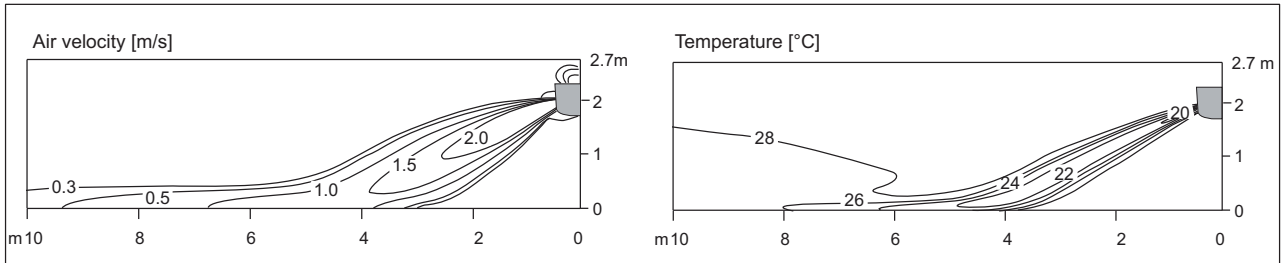
6. Air flow and temperature distributions (reference data)

■ Models : AMNW07/09/12GSJB-, EMNW12GSJB0, AMNW07/09/12GSJA0

◆ Cooling

Side View

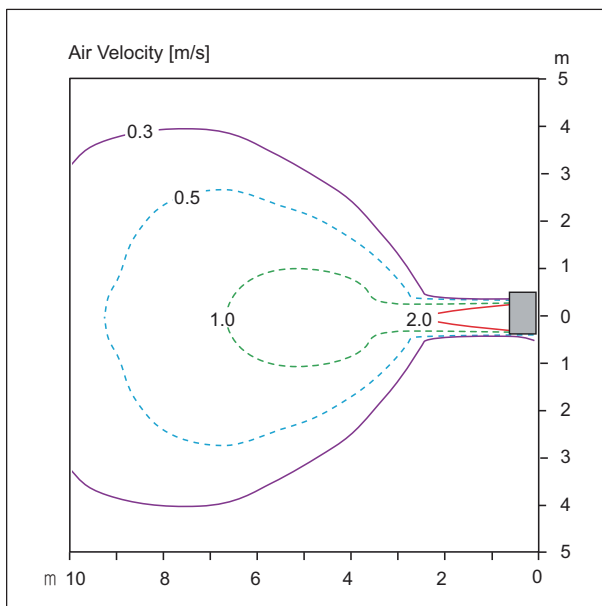
Discharge angle: 35°



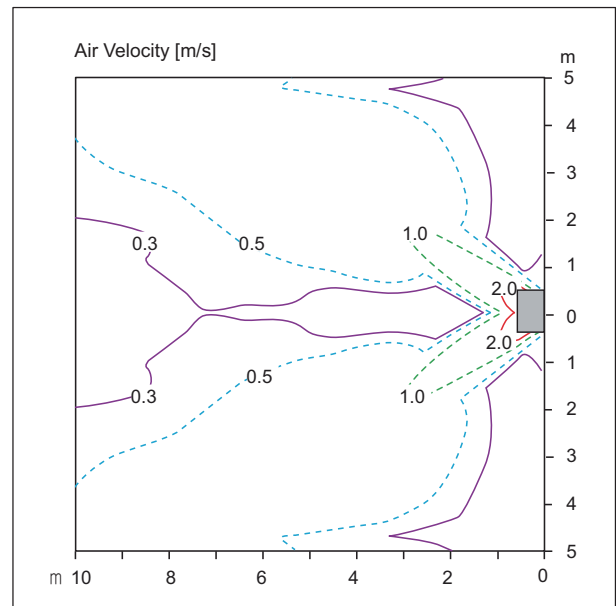
- Vertical Louver : Center
- Fan speed : Super High

Top View

Discharge angle: 35°



- Vertical Louver : Center
- Vertical Vane : 0°
- Fan speed : Super High
- Air speed 0.3m/s Range : 11.5m



- Vertical Louver : Left & Right
- Vertical Vane : 55°
- Fan speed : Super High

Note

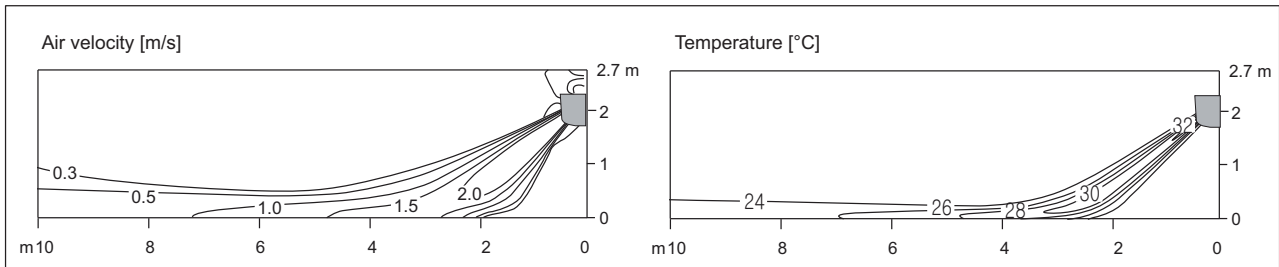
- These figures are accordance with normal certain condition and environment. (Airflow step is 'Super High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

6. Air flow and temperature distributions (reference data)

◆ Heating

Side View

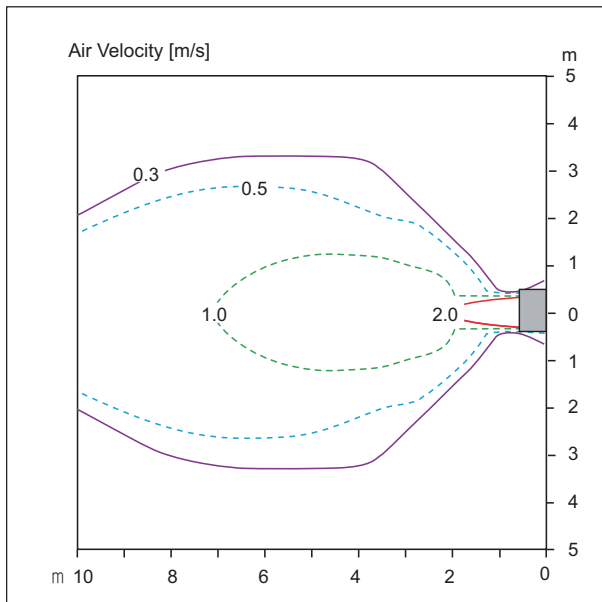
Discharge angle: 55°



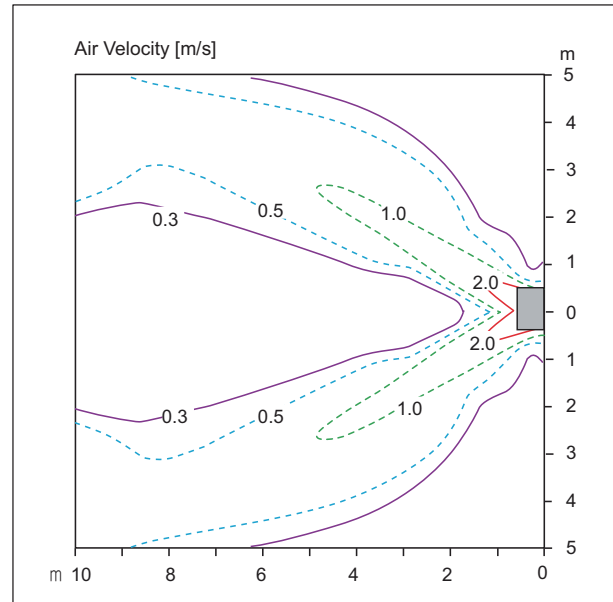
- Vertical Louver : Center
- Fan speed : Super High

Top View

Discharge angle: 55°



- Vertical Louver : Center
- Vertical Vane : 0°
- Fan speed : Super High
- Air speed 0.3m/s Range : 13.5m



- Vertical Louver : Left & Right
- Vertical Vane : 55°
- Fan speed : Super High

Note

- These figures are accordance with normal certain condition and environment. (Airflow step is 'Super High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

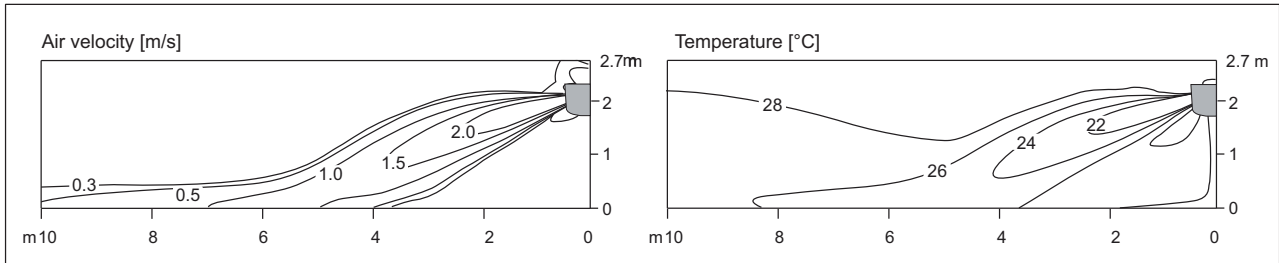
6. Air flow and temperature distributions (reference data)

■ Models : AMNW18GSKL0, AMNW18GSKB-, EMNW18GSKB0, AMNW18GSKA0, AMNW18GSKC0

◆ Cooling

Side View

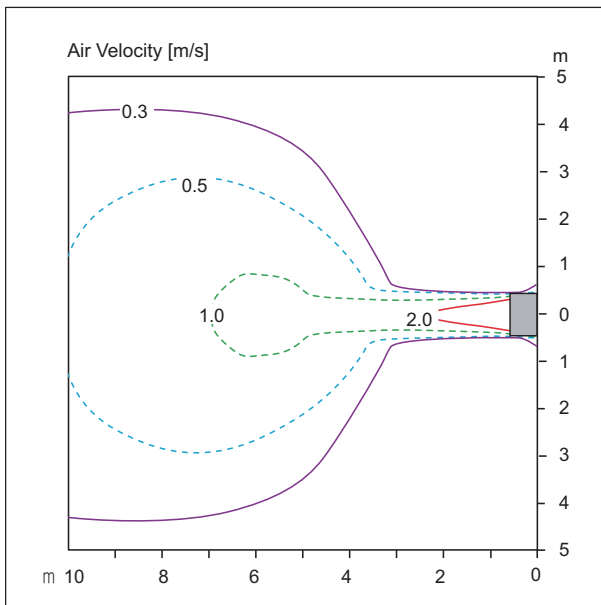
Discharge angle: 25°



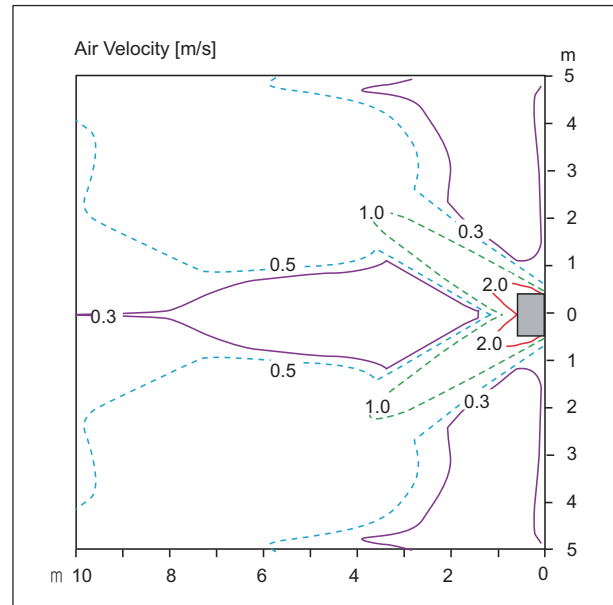
- Vertical Louver : Center
- Fan speed : Super High

Top View

Discharge angle: 25°



- Vertical Louver : Center
- Vertical Vane : 0°
- Fan speed : Super High
- Air speed 0.3m/s Range : 12.9m



- Vertical Louver : Left & Right
- Vertical Vane : 50°
- Fan speed : Super High

Note

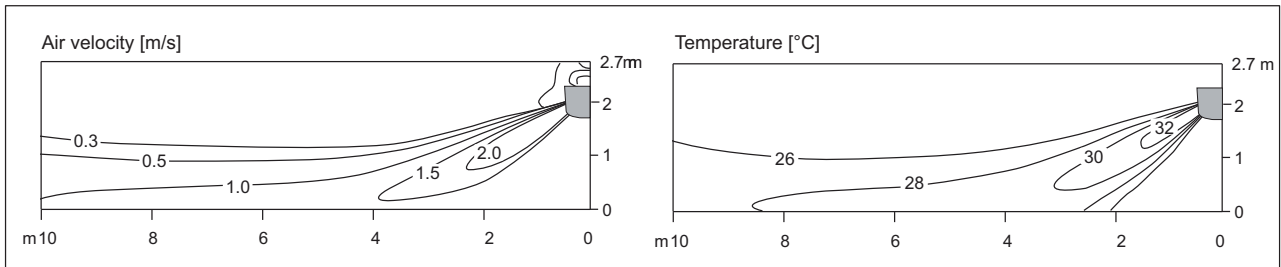
- These figures are accordance with normal certain condition and environment.
(Airflow step is 'Super High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

6. Air flow and temperature distributions (reference data)

◆ Heating

Side View

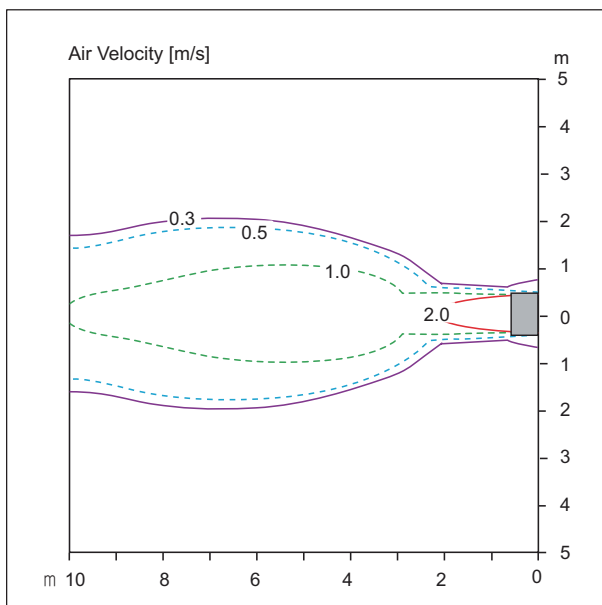
Discharge angle: 45°



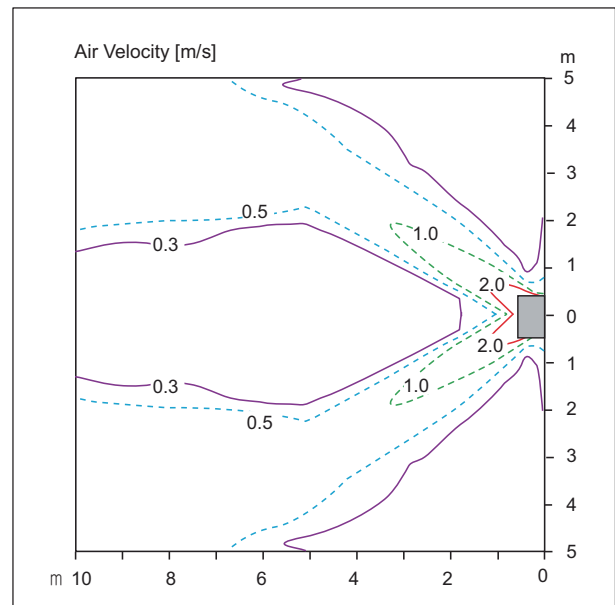
- Vertical Louver : Center
- Fan speed : Super High

Top View

Discharge angle: 45°



- Vertical Louver : Center
- Vertical Vane : 0°
- Fan speed : Super High
- Air speed 0.3m/s Range : 20.0m



- Vertical Louver : Left & Right
- Vertical Vane : 50°
- Fan speed : Super High

Note

- These figures are accordance with normal certain condition and environment. (Airflow step is 'Super High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

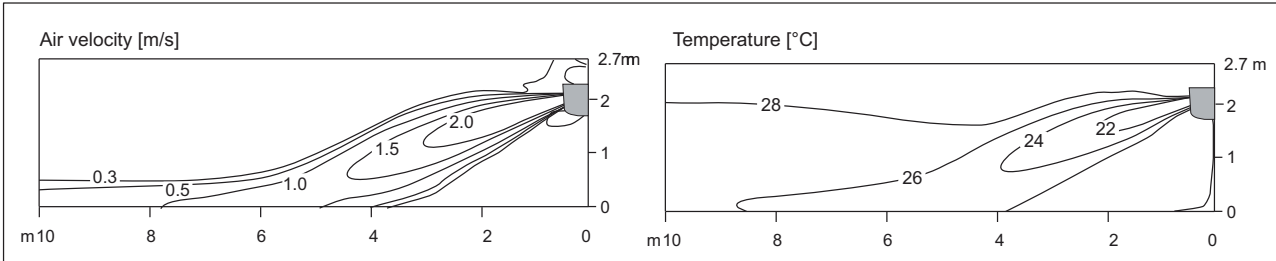
6. Air flow and temperature distributions (reference data)

■ Models : AMNW24GSKL0, AMNW24GSKB0, EMNW24GSKB0, AMNW24GSKA0

◆ Cooling

Side View

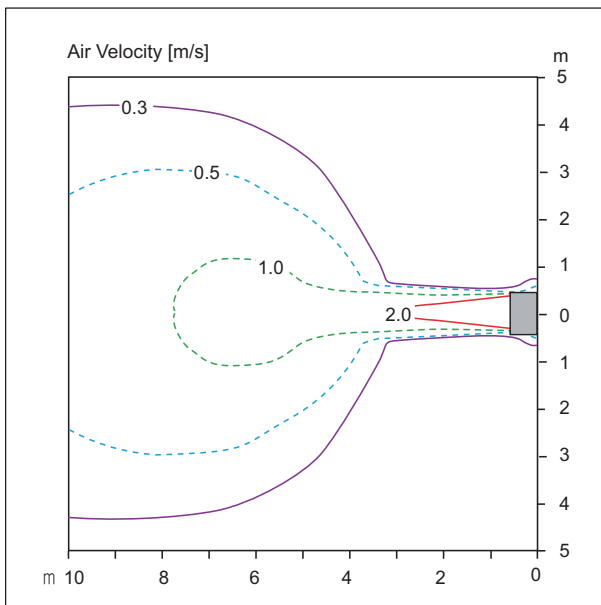
Discharge angle: 25°



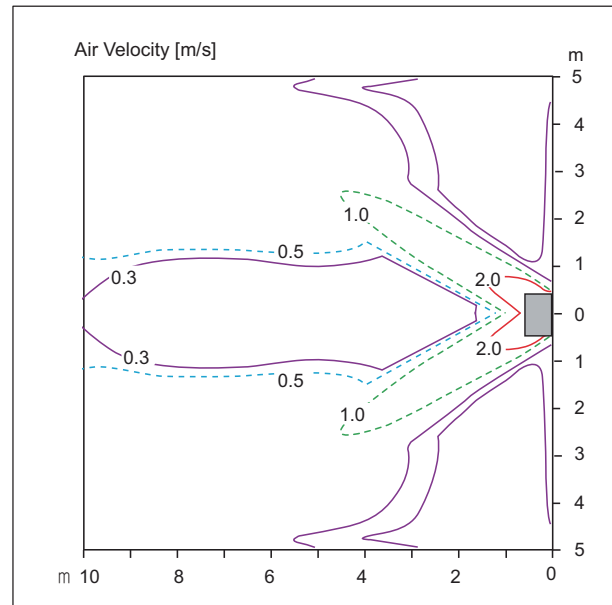
- Vertical Louver : Center
- Fan speed : Super High

Top View

Discharge angle: 25°



- Vertical Louver : Center
- Vertical Vane : 0°
- Fan speed : Super High
- Air speed 0.3m/s Range : 15.0m



- Vertical Louver : Left & Right
- Vertical Vane : 50°
- Fan speed : Super High

Note

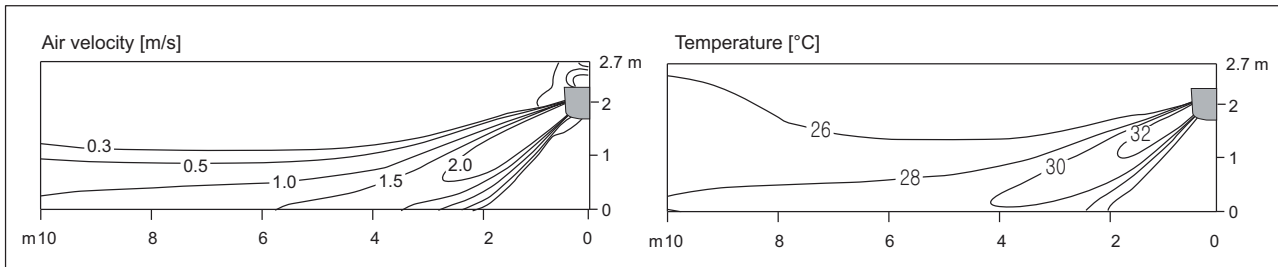
- These figures are accordance with normal certain condition and environment. (Airflow step is 'Super High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

6. Air flow and temperature distributions (reference data)

◆ Heating

Side View

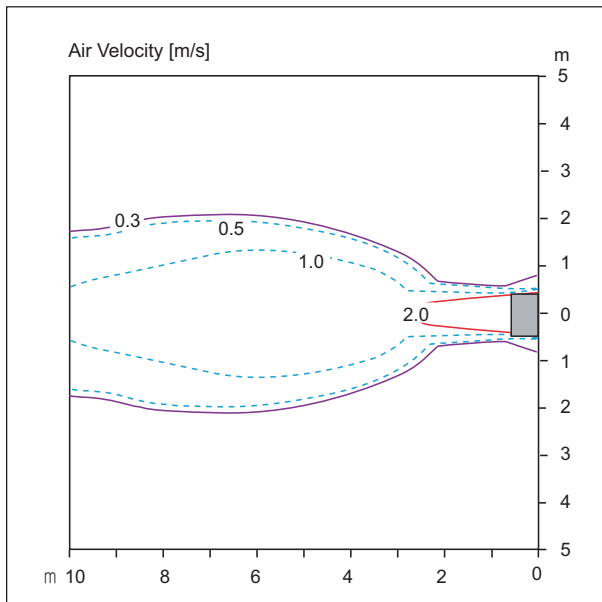
Discharge angle: 45°



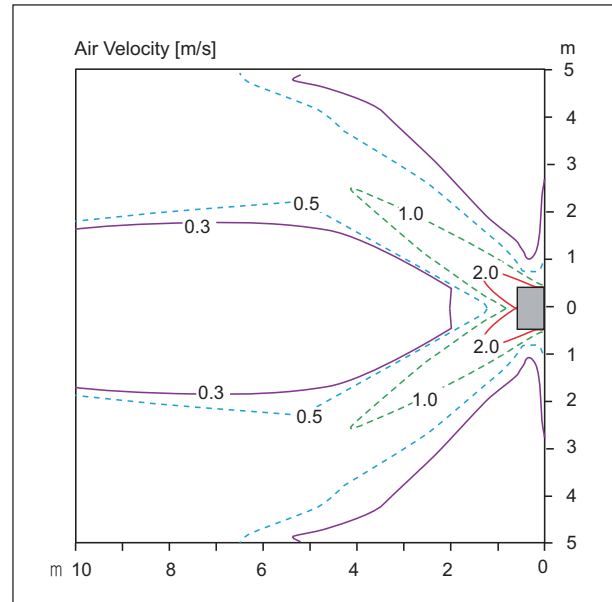
- Vertical Louver : Center
- Fan speed : Super High

Top View

Discharge angle: 45°



- Vertical Louver : Center
- Vertical Vane : 0°
- Fan speed : Super High
- Air speed 0.3m/s Range : 20.0m



- Vertical Louver : Left & Right
- Vertical Vane : 50°
- Fan speed : Super High

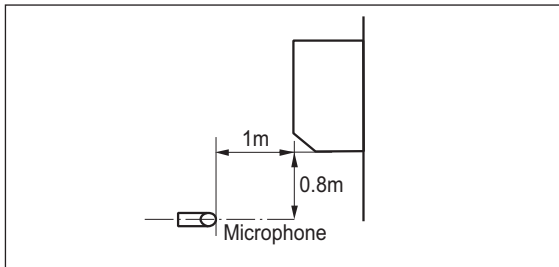
Note

- These figures are accordance with normal certain condition and environment. (Airflow step is 'Super High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

7. Sound levels

7.1 Sound pressure level

■ Overall



Note

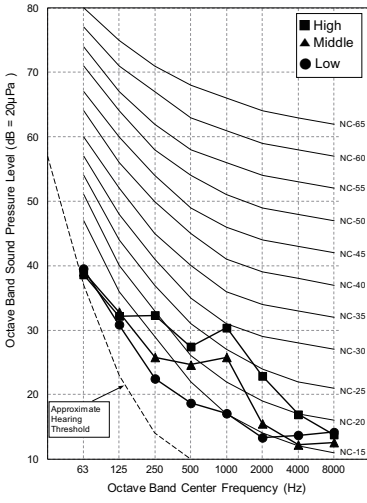
1. Sound measured at some distance away from the center of the unit.
2. Data is valid at free field condition.
3. Reference acoustic pressure $0\text{dB} = 20\mu\text{Pa}$.
4. Data is valid at nominal operation condition.
Refer to the Model Specifications for nominal conditions (Power source and Ambient temperature, etc)
5. Sound levels can be increased in accordance with installation and operating conditions. (Static pressure mode, used air guide, Room target temperature setting, etc)
6. Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.
7. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Therefore, these values can be increased owing to ambient conditions during operation.

Model	Sound pressure Levels [dB(A)]		
	H	M	L
AMNW07GSJL0 / AMNW07GSJC0	35	31	26
AMNW09GSJL0 / AMNW09GSJC0	36	32	27
AMNW12GSJL0 / AMNW12GSJC0	38	34	29
AMNW18GSKL0 / AMNW18GSKC0	44	38	34
AMNW24GSKL0	46	41	36

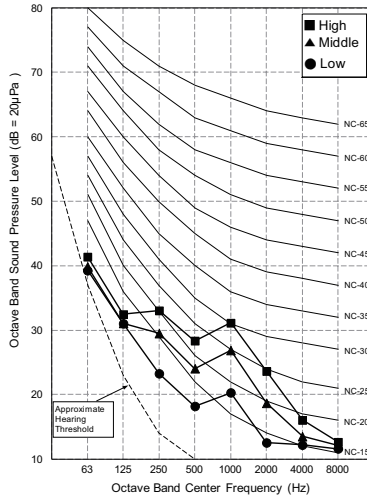
Model	Sound pressure Levels [dB(A)]		
	H	M	L
AMNW07GSJB0 / AMNW07GSJA0	35	32	27
AMNW09GSJB0 / AMNW09GSJB1 AMNW09GSJA0	36	33	27
AMNW12GSJB0 / AMNW12GSJB1 EMNW12GSJB0 / AMNW12GSJA0	40	35	27
AMNW18GSKB0 / EMNW18GSKB0 AMNW18GSKA0	44	38	35
AMNW18GSKB1	44	39	34
AMNW24GSKB0 / EMNW24GSKB0 AMNW24GSKA0	46	41	36

7. Sound levels

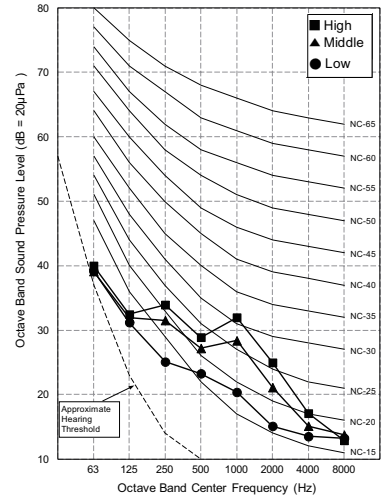
**AMNW07GSJL0
AMNW07GSJC0**



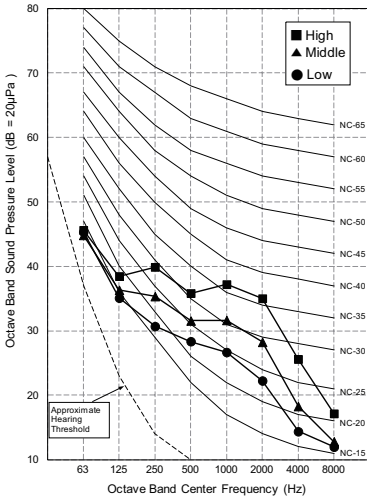
**AMNW09GSJL0
AMNW09GSJC0**



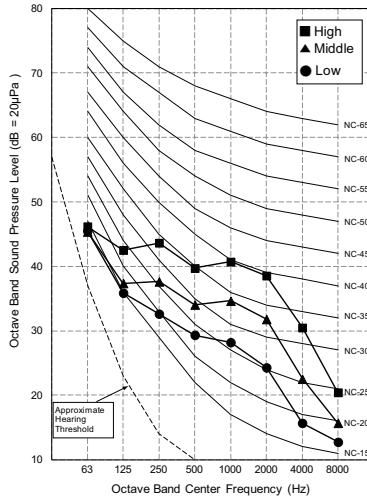
**AMNW12GSJL0
AMNW12GSJC0**



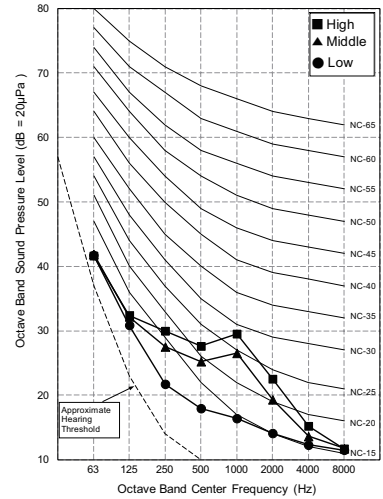
**AMNW18GSKL0
AMNW18GSKC0**



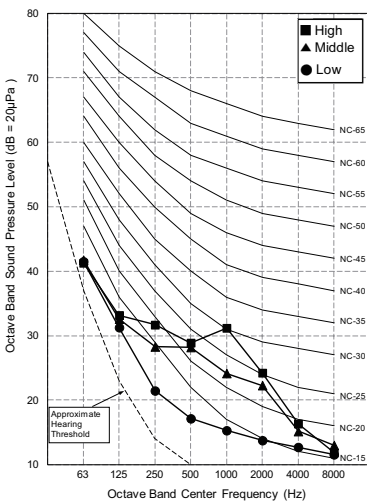
AMNW24GSKL0



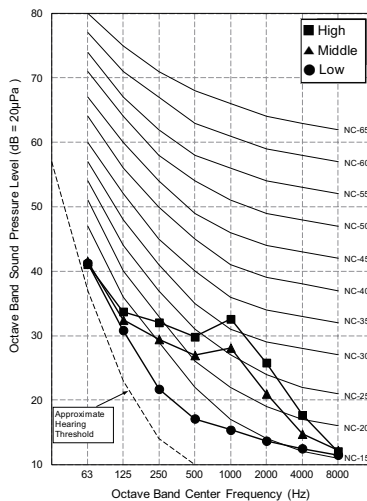
**AMNW07GSJB0
AMNW07GSJA0**



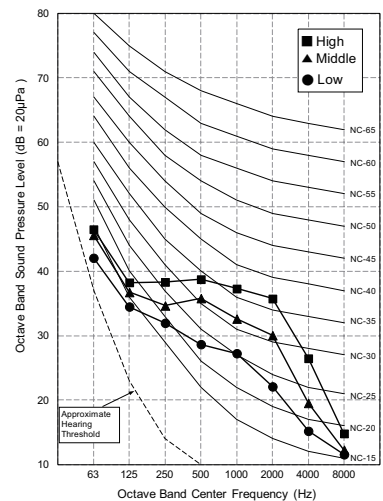
**AMNW09GSJB0
AMNW09GSJB1
AMNW09GSJA0**



**AMNW12GSJB0/AMNW12GSJB1
EMNW12GSJB0
AMNW12GSJA0**

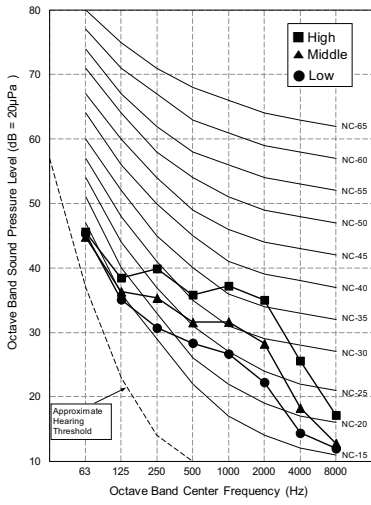


**AMNW18GSKB0
EMNW18GSKB0
AMNW18GSKA0**

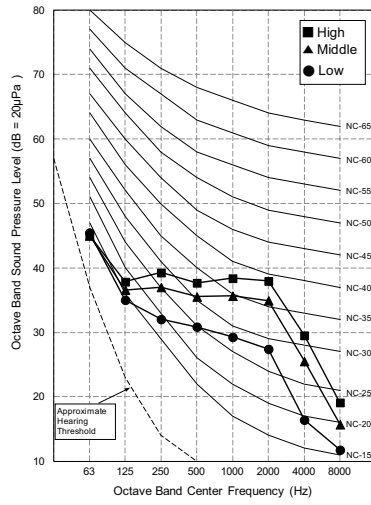


7. Sound levels

AMNW18GSKB1



**AMNW24GSKB0
EMNW24GSKB0
AMNW24GSKA0**



7. Sound levels

7.2 Sound power level

Note

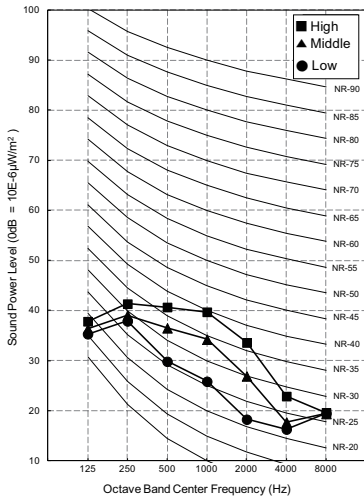
- Data is valid at diffuse field condition
- Data is valid at nominal operating condition
- Sound level can be increased in static pressure mode or used air guide.
- Sound power level is measured on the rated condition in the reverberation rooms.
- Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.
- Reference acoustic intensity 0dB = $10E-6\mu W/m^2$
- Sound power level is measured on the rated condition in the reverberation rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.

Model	Sound power Levels [dB(A)]
	H
AMNW07GSJL0 / AMNW07GSJC0	56
AMNW09GSJL0 / AMNW09GSJC0 AMNW09GSJB1	56
AMNW12GSJL0 / AMNW12GSJC0 AMNW12GSJB1	56
AMNW18GSKL0	60
AMNW24GSKL0	64

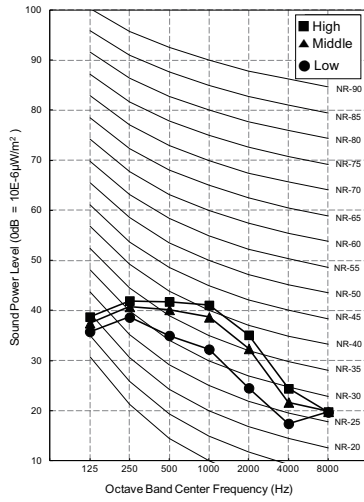
Model	Sound power Levels [dB(A)]
	H
AMNW07GSJB0 / AMNW07GSJA0	57
AMNW09GSJB0 / AMNW09GSJA0	57
AMNW12GSJB0 / EMNW12GSJB0 AMNW12GSJA0	57
AMNW18GSKB0 / EMNW18GSKB0 AMNW18GSKA0 / AMNW18GSKC0 AMNW18GSKB1	59
AMNW24GSKB0 / EMNW24GSKB0 AMNW24GSKA0	65

7. Sound levels

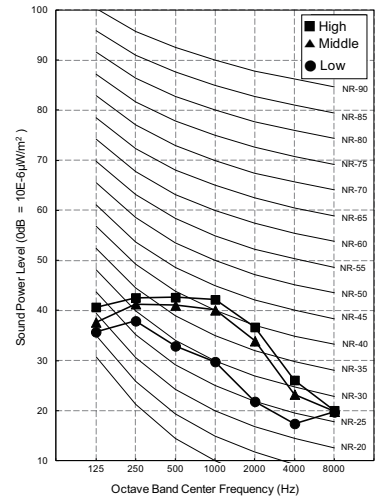
**AMNW07GSJL0
AMNW07GSJC0**



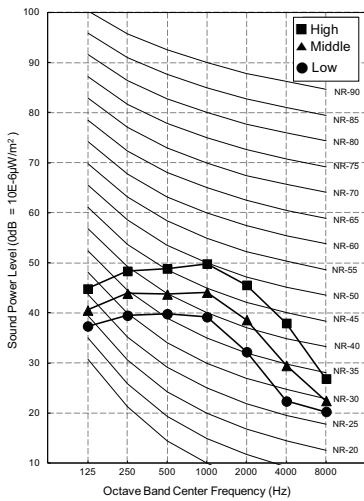
**AMNW09GSJL0/AMNW09GSJC0
AMNW09GSJB1**



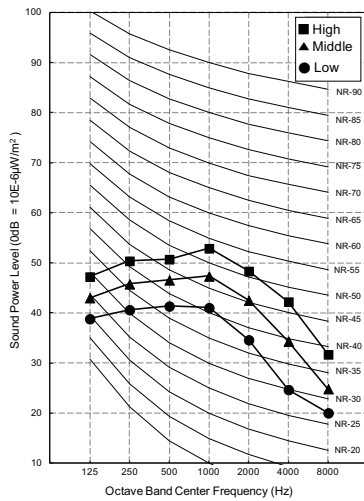
**AMNW12GSJL0/AMNW12GSJC0
AMNW12GSJB1**



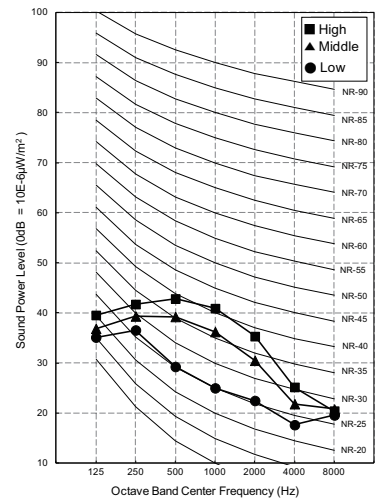
AMNW18GSKL0



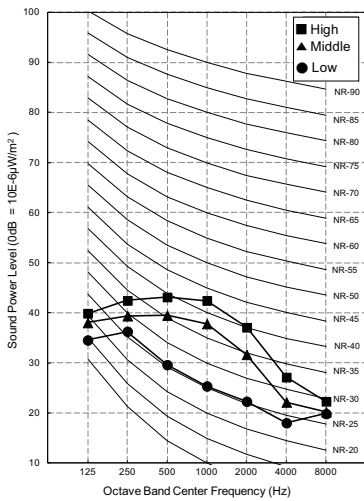
AMNW24GSKL0



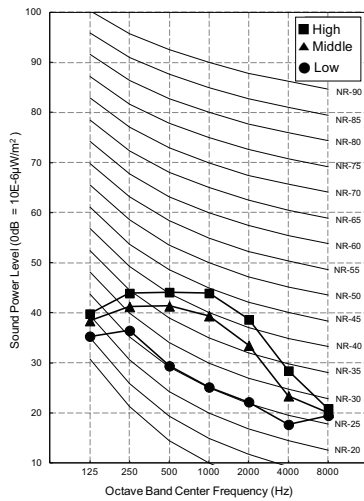
AMNW07GSJB0/AMNW07GSJA0



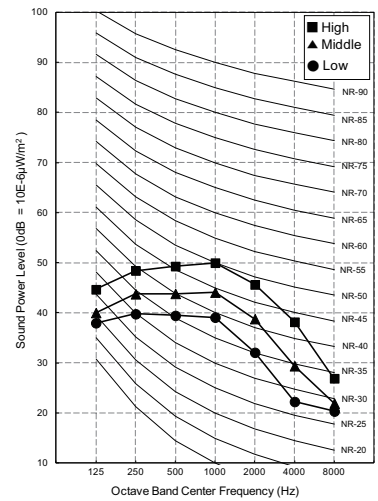
**AMNW09GSJB0
AMNW09GSJA0**



**AMNW12GSJB0
EMNW12GSJB0
AMNW12GSJA0**

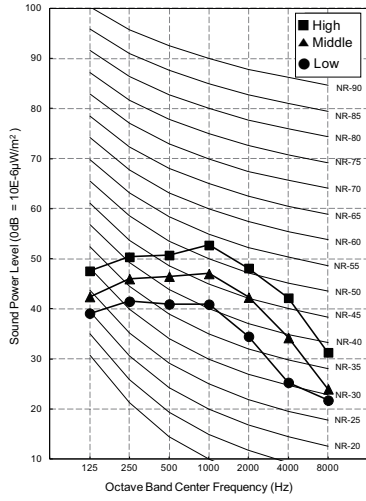


**AMNW18GSKB0
EMNW18GSKB0/AMNW18GSKA0
AMNW18GSKC0/AMNW18GSKB1**



7. Sound levels

AMNW24GSKB0
EMNW24GSKB0
AMNW24GSKA0



8. Installation

- Please read the instruction sheets completely before installing the product.
 - When the power cord is damaged, replacement work shall be performed by authorized personnel only.
 - Installation work must be performed in accordance with the national wiring standards.
 - Teach the customer the operation and maintenance procedures, using the operation manual. (air filter cleaning, temperature control, etc.)
-

8.1 Selection of the best location

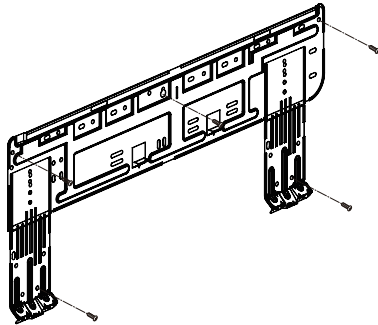
- The unit must be installed indoor area.
- Do not install the unit near the door.
- There should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- The place where the indoor unit can be connected with outdoor unit easily.
- The place where the unit is leveled.
- The place shall allow easy water drainage.
- The place where bear a load exceeding four times of the indoor unit weight.
- The mounting ceiling or wall should be solid enough to protect it from the vibration.
- The place where the unit is not affected by an electrical noise.
- The place where noise prevention is taken into consideration.
- The place where the maintenance space for product is sufficient.
- There should not be any heat source or steam near the unit.

8. Installation

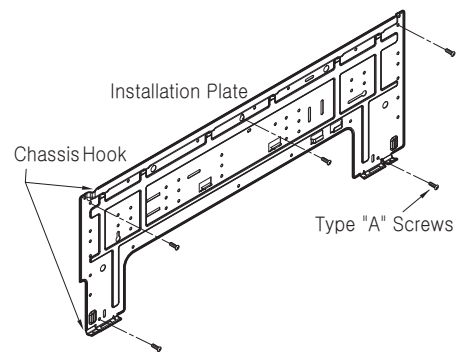
■ Fixing Installation Plate

- The wall you select should be strong and solid enough to prevent vibration.
 1. Mount the installation plate on the wall with type "A" screws which are provided with product. (Refer to the Installation manual.) If mounting the unit on a concrete wall, use anchor bolts.
 - Mount the installation plate horizontally by aligning the centerline using Horizontal meter.
 2. Measure the wall and mark the centerline. It is also important to use caution concerning the location of the installation plate. Routing of the wiring to power outlets is through the walls typically. Drilling the hole through the wall for piping connections must be done safely.

SJ Chassis

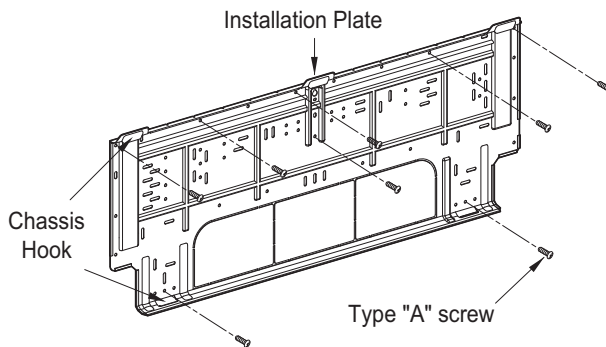


SK Chassis



* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

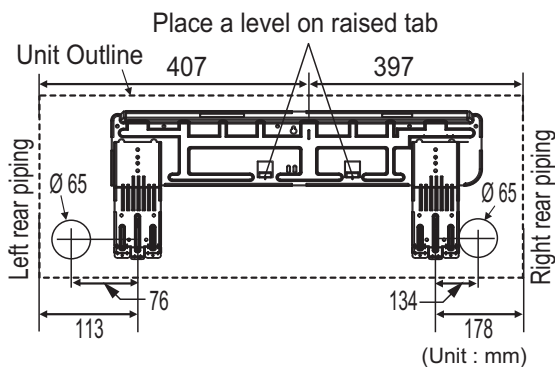
SV Chassis



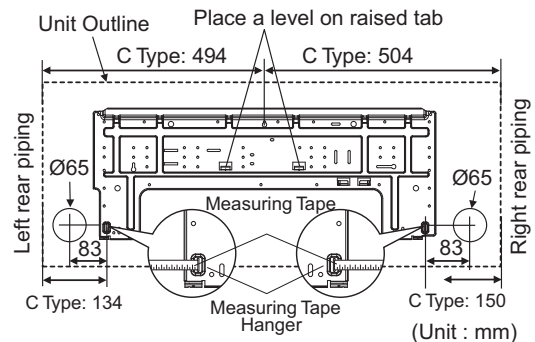
* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

■ The lower left and the right side piping of Installation Plate

SJ chassis



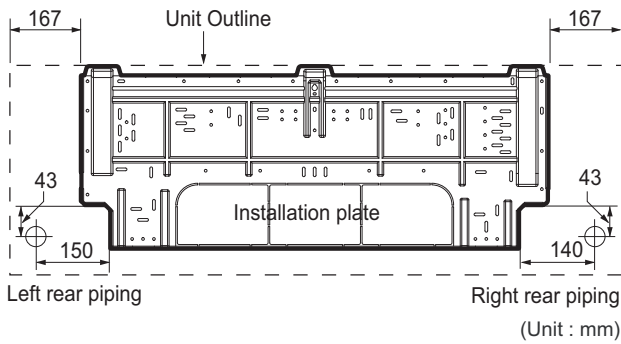
SK chassis



* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

8. Installation

SV chassis



* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

! CAUTION

In case that the unit is installed near the sea, the installation parts may be corroded by salt. The installation parts (and the unit) should be taken appropriate anti-corrosion measures.

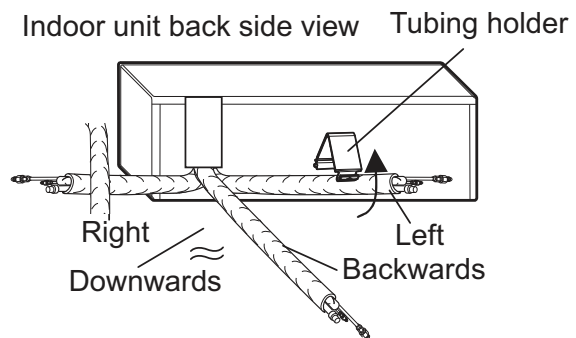
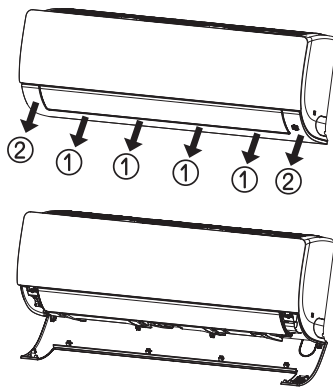
8. Installation

8.2 Connection of pipes and cables

8.2.1 Preparing work for installation

■ SJ/SK chassis

1. Pull the cover at the bottom of the indoor unit. Pull the cover ①→②.
2. Remove the chassis cover from the unit.
3. Pull back the tubing holder.
4. Remove pipe port cover and positioning the tubing.



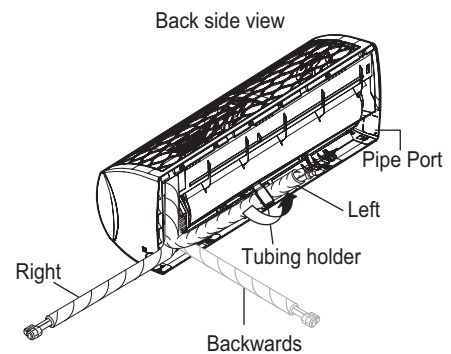
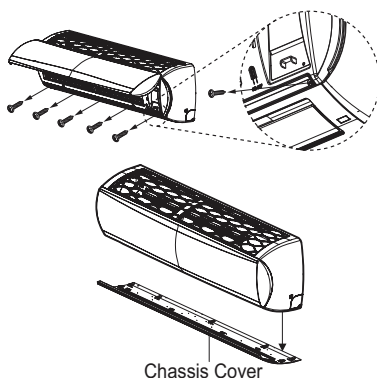
※ The feature can be changed according to type of model.

* The feature can be changed according to type of model.

* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

■ SV chassis

1. Open the panel of the indoor unit.
2. Remove the chassis cover from the unit by loosening 5 screws.
3. Pull back the tubing holder.
4. Remove pipe port cover and position the piping.

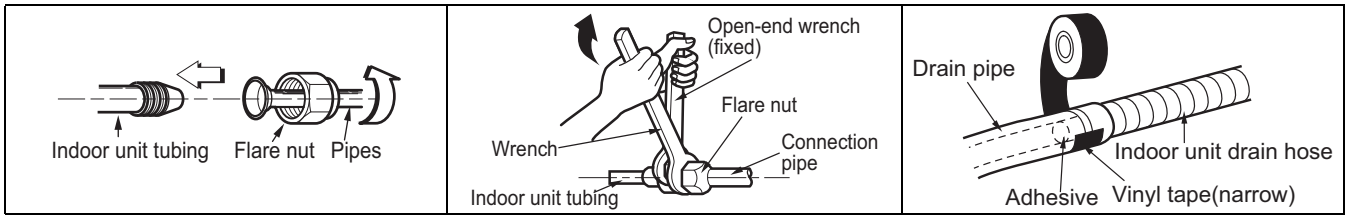


* The feature can be changed according to type of model.

* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

8. Installation

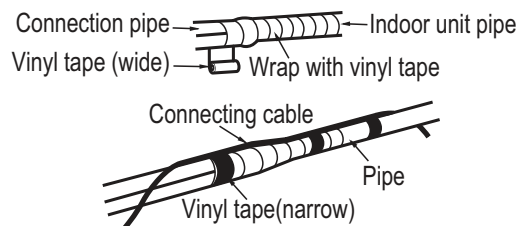
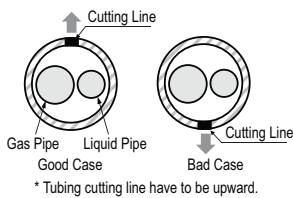
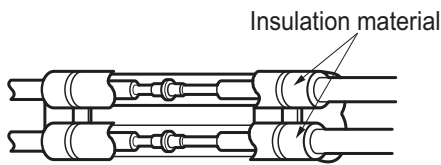
■ Connecting the installation pipe and drain hose



1. Align the center of the pipes and sufficiently tighten the flare nut by hand.
2. Tighten the flare nut with a wrench.
3. When needed to extend the drain hose of indoor unit, assemble the drain pipe as shown on the drawing.

■ Wrap the insulation material around the connecting portion.

1. Overlap the connection pipe insulation material and the indoor unit pipe insulation material. Bind them together with vinyl tape so that there may be no gap.
2. Set the tubing cutting line upward. Wrap the area which accommodates the rear piping housing section with vinyl tape.
3. Bundle the piping and drain hose together by wrapping them with vinyl tape sufficient enough to cover where they fit into the rear piping housing section. Be sure that the drain hose is located at the lowest side of the bundle. Locating at the upper side can cause overflow from the drain pan through the inside of the unit.



⚠ CAUTION

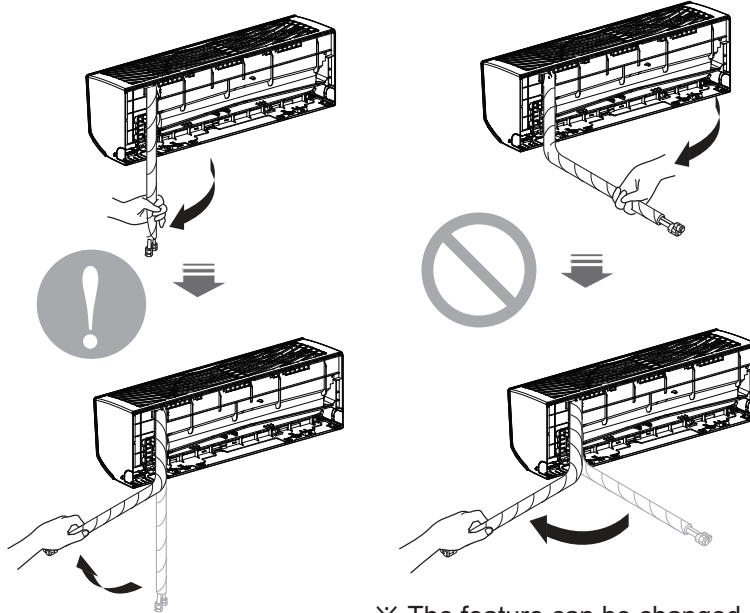
If the drain hose is routed inside the room insulate the hose with an insulation material* so that dripping from sweating condensation) will not damage furniture or floors.

* Foamed polyethylene or equivalent is recommended.

8. Installation

⚠ CAUTION

- Press on the tubing cover and unfold the tubing to downward slowly. And then bend to the left side slowly.
- Following bending case from right to left directly may cause damage to the tubing.



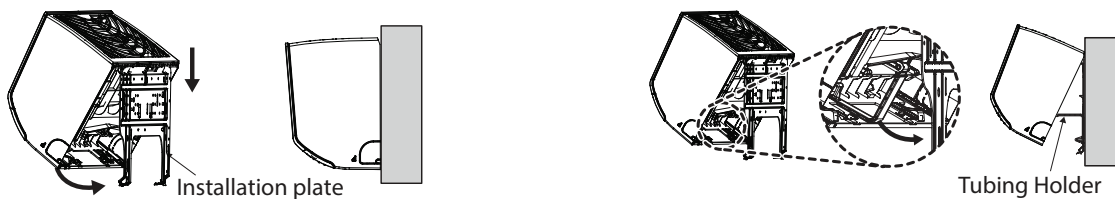
※ The feature can be changed according to type

- Installation Information. For right piping. Follow the instruction above.

8.2.2 Installation of Indoor Unit

■ Seat the indoor unit on the installation plate

1. Hook the indoor unit onto the upper portion of the installation plate.(engage the three hooks at the top of the indoor unit with the upper edge of the installation plate) Ensure that the hooks are properly seated on the installation plate by moving it left and right
2. Unlock the tubing holder from the chassis and mount between the chassis and installation plate in order to separate the bottom side of the indoor unit from the wall.

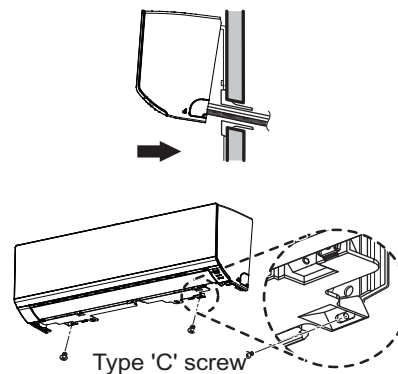


* The feature can be changed according to type of model.

8. Installation

8.2.3 Finishing the indoor unit installation

1. Mount the tubing holder in the original position.
2. Ensure that the hooks are properly seated on the installation plate by moving it left and right.
3. Press the lower left and right sides of the unit against the installation plate until the hooks engage into their slots (clicking sound).
4. Finish the assembly by screwing the unit to the installation plate by using two pieces of type "C" screws. And assemble a chassis cover. (SJ/SK chassis) Recover the chassis cover in Original place. (SV chassis)



* The feature can be changed according to type of model.

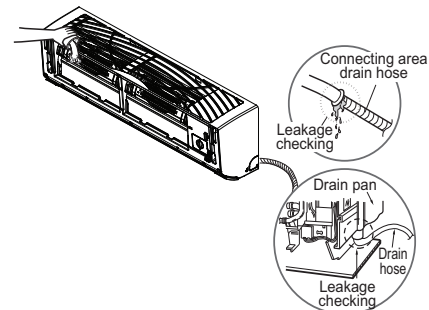
CAUTION

- The indoor unit can be dropped from the wall, the indoor unit is not screwed correct position on the install plate.
- To avoid the gap between the indoor unit and wall , screw the indoor unit to the install plate correctly.

8.2.4 Checking the Drainage

◆ To check the drainage.

1. Pour a glass of water on the evaporator.
2. Ensure the water flows through the drain hose of the indoor unit without any leakage and goes out the drain exit.

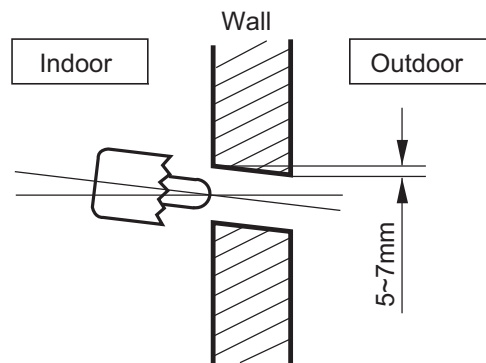


* The feature can be changed according to type of model.

8. Installation

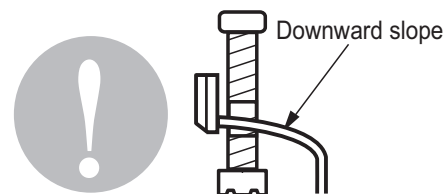
◆ Drill a Hole in the wall

1. Drill the piping hole with a \varnothing 70mm hole core drill.
Drill the piping hole at either the right or the left with the holes slightly slanted to the outdoor side.

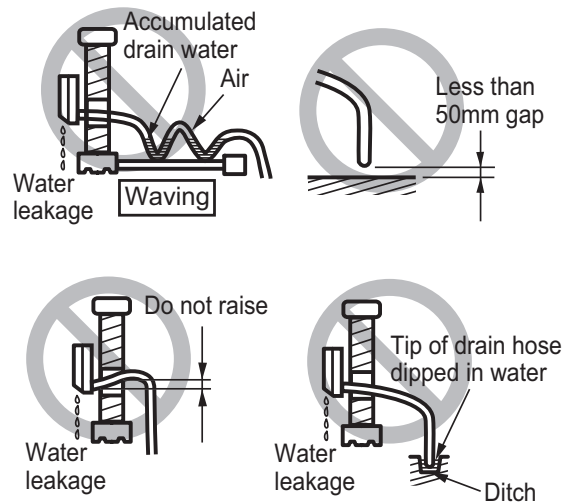


◆ Drain Piping

1. The drain hose should point downward for easy drain flow



2. Do not make drain piping like the following.



* The feature can be changed according to type of model.

8. Installation

8.3 Wiring the cable to the indoor units

8.3.1 General instructions

- All field supplied parts and materials, electric works must conform to local codes. Use copper wire only.
- Follow the "**WIRING DIAGRAM**" attached to the unit body to wire the outdoor unit, indoor units and the remote controller.
- All wiring must be performed by an authorized electrician.
- A circuit breaker capable of shutting down the power supply to the entire system must be installed.

CAUTION

After the confirmation of the above conditions, prepare the wiring as follows:

- Never fail to have separate power specially for the air conditioner.
- Provide a circuit breaker switch between power source and the unit.
- Confirm the Specification of power source.
- Confirm that electrical capacity is sufficient.
- Be sure that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
- Confirm that the cable thickness is as specified in the power sources specification.
(Particularly note the relation between cable length and thickness.)
- Do not install the leakage breaker in a place which is wet or moist.
Water or moist may cause short circuit.
- The following troubles would be caused by voltage drop-down.
 - » Vibration of a magnetic switch, damage on the contact point there of, fuse breaking, disturbance to the normal function of a overload protection device.
 - » Proper starting power is not given to the compressor.

8.3.2 Wiring connection

- Connect the wires to the terminals on the control board individually according to the outdoor unit connection.
- Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively.
- In case of the system with multiple indoor units, mark each indoor unit as unit A, unit B, etc and be sure the terminal board wiring to the outdoor unit and indoor units are properly matched. If wiring and piping between the outdoor unit and an indoor unit are mismatched, the system may cause a malfunction.

8.3.3 Clamping of cables

1. Arrange 2 power cables on the control panel.
2. First, fasten the steel clamp with a screw to the inner boss of control panel.
3. For connecting of communication (transmission) cable, put the cable(or thinner cable) on the clamp and tighten it with a plastic clamp to the other boss of the control panel. In case that communication (transmission) cable is not needed to connect, fix the other side of the clamp with a screw strongly.

8. Installation

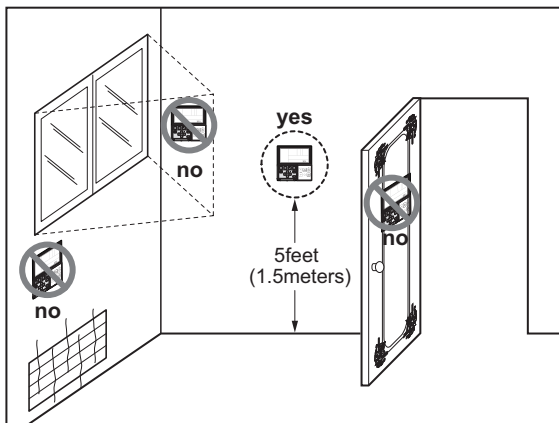
⚠ WARNING

- Make sure that the screws of the terminal are fixed tightly.
- The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could give rise to burn-out of the wires.)
- Make sure to attach the sealing material or (field supplied) to hole of wiring to prevent the infiltration of foreign particle from outside. Otherwise a short-circuit may occur inside the electric parts box.
- When clamping the wires, be sure no pressure is applied to the wire connections by using the included clamping material to make appropriate clamps. Also, when wiring, make sure the cover on the electric parts box fits snugly by arranging the wires neatly and attaching the electric parts box cover firmly. When attaching the electric parts box cover, make sure no wires get caught in the edges. Pass wiring through the wiring through holes to prevent damage to them.
- Make sure the remote controller wiring, the wiring between the units, and other electrical wiring do not pass through the same locations outside of the unit, separating them properly, otherwise electrical noise (external static) could cause product malfunction.

8.3.4 Wired Remote Controller Installation (Optional)

Since the room temperature sensor is in the remote controller, the remote controller box should be installed in a place away from direct sunlight, high humidity and direct supply of cold air to maintain proper space temperature.

Install the remote controller about 5ft(1.5m) above the floor in an area with good air circulation at an average temperature.



• Do not install the remote controller where it can be affected by :

- Drafts, or dead spots behind doors and in corners.
- Hot or cold air from ducts.
- Radiant heat from sun or appliances.
- Concealed pipes and chimneys.
- Uncontrolled areas such as an outside wall behind the remote controller.
- This remote controller is equipped with a seven segment LED. display. For proper display of the remote controller LED's, the remote controller should be installed properly. (The standard height is 1.2~1.5 m from floor level.)

MULTI

Indoor Unit

ART COOL Mirror

- 1.List of functions**
- 2.Specification**
- 3.Dimensions**
- 4.Piping Diagrams**
- 5.Wiring Diagrams**
- 6.Air flow and temperature distributions (reference data)**
- 7.Sound levels**
- 8.Installation**

1. List of functions

◆ List of function

Category	Functions	AMNW07GSJR0, AMNW09GSJR0, AMNW12GSJR0 AMNW18GSKR0, AMNW24GSKR0
Air Flow	Air Supply Outlet	1
	Airflow Direction Control (left & right)	Auto
	Airflow Direction Control (up & down)	Auto
	Auto Swing (left & right)	O
	Auto Swing (up & down)	O
	Airflow Steps (fan/cool/heat)	6 / 6 / 6
	Fan Speed Auto*	Advanced
	Power Cool/Heat	O / O
	Swirl Wind*	X
	Refresh Mode**	X
	Smart Mode**	X
	Indirect Wind*	O
	Direct Wind*	O
Dry Operation	O	
Air Purification	Air Purify	X
	Ionizer	O
	UV-C	X
	Pre-Filter	O
	PM1.0 Filter	X
	Allergy Filter	X
Reliability	Hot Start	O
	Self Diagnosis	O
Convenience	Auto Mode	O
	Auto Dry Operation	O
	Auto Restart	O
	Child Lock*	O
	Forced Operation	O
	Group Control*	X
	Sleep Timer	O
	Turn On/Off Reservation	O
	Schedule*	O
	Two Thermistor Control*	O
External On/Off	X	
Installation	Drain Pump	X
	E.S.P. Control*	X
	High Ceiling Operation*	X
Special Functions	Wi-Fi	Embedded
	Auto Elevation Grille	X
	Human Detection Function**	X
	Floor Detection Function**	X

Note

- O : Applied, X : Not Applied, - : Unconfirmed or irrelevant
Embedded : A kit is provided by default for using this function when the product is manufactured.
Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field. Accessory line-ups varies by region, so check your local catalogue or local sales material.
- Some functions can be limited by remote controller.
- In case of cassette type indoor units, Air Purification Kit and Auto Elevation Grille functions are not applicable at the same time.
- 'Auto Mode' varies depending on the outdoor unit type.
- Auto Change Over(Single Heat Pump Outdoor Unit)
- Auto Mode Select(Multi Heat Pump Outdoor Unit)
- Auto Intensity Control(Cooling Only Outdoor Unit)
- * : These functions need to connect the wired remote controller.
- ** : This functions need to connect to the Standard III wired remote controller.

1. List of functions

◆ Accessory Compatibility List

Category		Product	Remark	AMNW07GSJR0 AMNW09GSJR0 AMNW12GSJR0 AMNW18GSKR0 AMNW24GSKR0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
		PWLSSB21H	Heat Pump	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	Standard	PREMTB001	Standard II (White)	O
		PREMTBB01	Standard II (Black)	O
	PREMTB100**	Standard III (White)	O	
	Premium	PREMTA000(A/B)	Premium	X
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	For 3rd Party Thermostat	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O
		PDRYCB500	For Modbus	X
Gateway	IDU PI485	PHNFP14A0	Without case	X
		PSNFP14A0	With case	X
ETC	Remote temperature sensor	PQRSTA0	-	X
	Zone controller	ABZCA	-	X
	CTI (Communication transfer interface)	PKFC0	-	X
	CO ₂ Sensor	PES-C0RV0	For ERV, ERV DX Indoor units	X
	Group control wire	PZCWRCG3	0.25m	X
	2-Remo Control Wire	PZCWRC2	0.25m	X
	Extension Wire	PZCWRC1	10m	O
Wi-Fi Controller*	PWFMDD200	-	X	
Note				
1. O: Possible, X: Impossible, -: Not applicable, Embedded: Included with product.				
2. *: Some advanced functions controlled by individual controller cannot be operated.				
3. **: It could not be operated some functions.				
4. If you need more detail, please refer to the BECON PDB or the manual of product. (http://partner.lge.com/global : Home> Doc.Library> Product > Control(BECON))				

2. Specifications

Model Name			AMNW07GSJR0	AMNW09GSJR0	
Power Supply		V, Ø, Hz	220-240, 1, 50	220-240, 1, 50	
Power Input		Min./Nom./Max.	220, 1, 60	220, 1, 60	
Running Current		W	11 / 17 / 30	11 / 18 / 30	
Exterior Color code		A	0.10 / 0.14 / 0.20	0.10 / 0.16 / 0.20	
-		-	Munsell 7.5PB 0.2/20 (RAL 9005)		
Dimensions	Body	W × H × D	mm	837 × 308 × 192	837 × 308 × 192
		W × H × D	inch	32-15/16 × 12-1/8 × 7-9/16	32-15/16 × 12-1/8 × 7-9/16
	Shipping	W × H × D	mm	909 × 383 × 256	909 × 383 × 256
		W × H × D	inch	35-25/32 × 15-3/32 × 10-3/32	35-25/32 × 15-3/32 × 10-3/32
Weight	Body	kg (lbs)	9.1 (20.1)	9.9 (21.8)	
	Shipping	kg (lbs)	12.5 (27.6)	13.0 (28.7)	
Heat Exchanger	(Row×Column×Fins per inch) × No.		-	(2 × 15 × 21) × 1	(2 × 15 × 21) × 1
	Face Area		m ² (ft ²)	0.19 (2.05)	0.19 (2.05)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m ³ /min	8.6 / 7.2 / 5.6	9.2 / 7.4 / 5.6
		H / M / L	ft ³ /min	304 / 254 / 198	325 / 261 / 198
Fan Motor	Type		-	BLDC	BLDC
	Output		W × No.	30 × 1	30 × 1
Sound Pressure Level		H / M / L	dB(A)	35 / 32 / 27	36 / 33 / 27
Sound Power Level		Max.	dB(A)	57	57
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices		-	-	Fuse	
Connections Method		-	-	Thermal Protector for Fan Motor	
Power and Communication Cable (included Earth)		-	-	Flared	Flared
		No. × mm ² (AWG)		4C × 1.0 (18)	4C × 1.0 (18)

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).
4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.
 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

2. Specifications

Model Name			AMNW12GSJR0	
Power Supply		V, Ø, Hz	220-240, 1, 50	
			220, 1, 60	
Power Input	Min./Nom./Max.	W	11 / 19 / 30	
Running Current	Min./Nom./Max.	A	0.10 / 0.17 / 0.20	
Exterior Color code		-	Munsell 7.5PB 0.2/20 (RAL 9005)	
Dimensions	Body	W × H × D	mm	837 × 308 × 192
		W × H × D	inch	32-15/16 × 12-1/8 × 7-9/16
	Shipping	W × H × D	mm	909 × 383 × 256
		W × H × D	inch	35-25/32 × 15-3/32 × 10-3/32
Weight	Body	kg (lbs)	9.9 (21.8)	
	Shipping	kg (lbs)	13.0 (28.7)	
Heat Exchanger	(Row×Column×Fins per inch) × No.	-	(2 × 15 × 21) × 1	
	Face Area	m ² (ft ²)	0.19 (2.05)	
Fan	Type	-	Cross Flow Fan	
	Air Flow Rate	H / M / L	m ³ /min	9.6 / 8.1 / 5.6
		H / M / L	ft ³ /min	339 / 286 / 198
Fan Motor	Type	-	BLDC	
	Output	W × No.	30 × 1	
Sound Pressure Level	H / M / L	dB(A)	40 / 35 / 27	
Sound Power Level	Max.	dB(A)	57	
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0
Safety Devices		-	Fuse	
		-	Thermal Protector for Fan Motor	
Connections Method		-	Flared	
Power and Communication Cable (included Earth)		No. × mm ² (AWG)	4C × 1.0 (18)	
Note				
1. Due to our policy of innovation some specifications may be changed without notification.				
2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.				
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).				
4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.				
• Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB				
• Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB				
• Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.				

2. Specifications

Model Name				AMNW18GSKR0	AMNW24GSKR0
Power Supply		V, Ø, Hz		220-240, 1, 50	220-240, 1, 50
				220, 1, 60	220, 1, 60
Power Input	Min./Nom./Max.		W	26 / 39 / 60	27 / 45 / 60
Running Current	Min./Nom./Max.		A	0.22 / 0.28 / 0.40	0.24 / 0.33 / 0.40
Exterior Color code			-	Munsell 7.5PB 0.2/20 (RAL 9005)	
Dimensions	Body	W × H × D	mm	998 × 345 × 212	998 × 345 × 212
		W × H × D	inch	39-9/32 × 13-19/32 × 8-11/32	39-9/32 × 13-19/32 × 8-11/32
	Shipping	W × H × D	mm	1,080 × 422 × 281	1,080 × 422 × 281
		W × H × D	inch	42-17/32 × 16-5/8 × 11-1/16	42-17/32 × 16-5/8 × 11-1/16
Weight	Body		kg (lbs)	13.2 (29.1)	14.0 (30.9)
	Shipping		kg (lbs)	17.6 (38.8)	18.0 (39.7)
Heat Exchanger	(Row×Column×Fins per inch) × No.		-	(2 × 16 × 20) × 1 + (1 × 8 × 22) × 1	(2 × 16 × 20) × 1 + (1 × 8 × 22) × 1
	Face Area		m ² (ft ²)	0.28 (3.01)	0.28 (3.01)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m ³ /min	14.2 / 11.3 / 9.9	15.2 / 12.7 / 10.2
		H / M / L	ft ³ /min	501 / 399 / 350	537 / 449 / 360
Fan Motor	Type		-	BLDC	BLDC
	Output		W × No.	60 × 1	60 × 1
Sound Pressure Level		H / M / L	dB(A)	44 / 38 / 35	46 / 41 / 36
Sound Power Level		Max.	dB(A)	59	65
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 12.7 (1/2)	Ø 12.7 (1/2)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices			-	Fuse	
			-	Thermal Protector for Fan Motor	
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. × mm ² (AWG)	4C × 1.0 (18)	4C × 1.0 (18)

Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).
- Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.
 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

3. Dimensions

3.1 Dimensional Drawings

◆ ARTCOOL Mirror (SJ Chassis)

AMNW07GSJR0, AMNW09GSJR0, AMNW12GSJR0

[Unit : mm]
 Chassi code : SJ
 DWG No. : TBJ36794302_Rev02

3D VIEW

Fixing the installation plate, drilling hole

Connecting gas/liquid pipe

Note

- Unit should be installed in compliance with the installation manual in the product box.
- Unit should be grounded in accordance with the local regulations or applicable national codes.
- All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.
- Electric characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

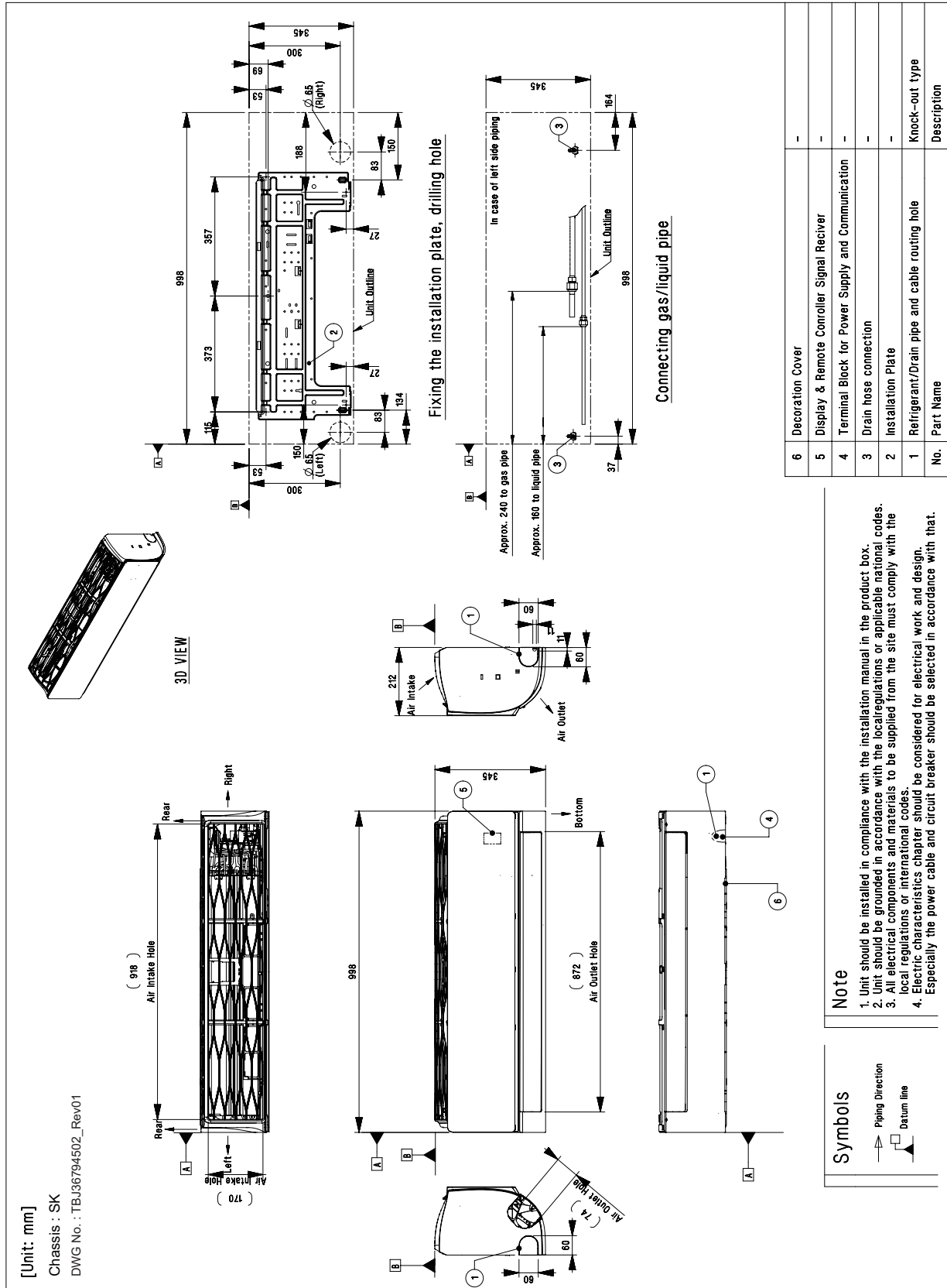
Symbols

- Piping Direction
- Datum line

No.	Part Name	Description
6	Decoration Cover	-
5	Display & Remote Controller Signal Receiver	-
4	Terminal Block for Power Supply Communication	-
3	Drain hose connection	-
2	Installation Plate	-
1	Refrigerant/Drain pipe and cable routing hole	Knock-out type

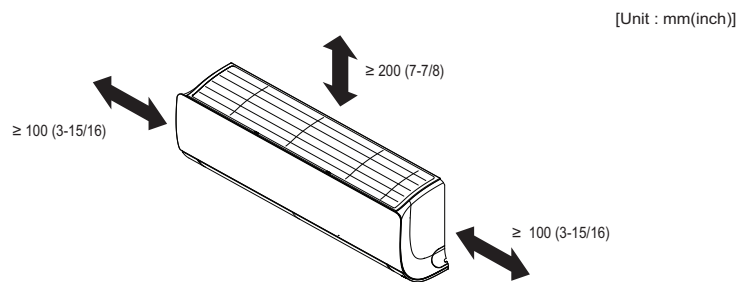
3. Dimensions

◆ ARTCOOL Mirror (SK Chassis) AMNW18GSKR0, AMNW24GSKR0



3. Dimensions

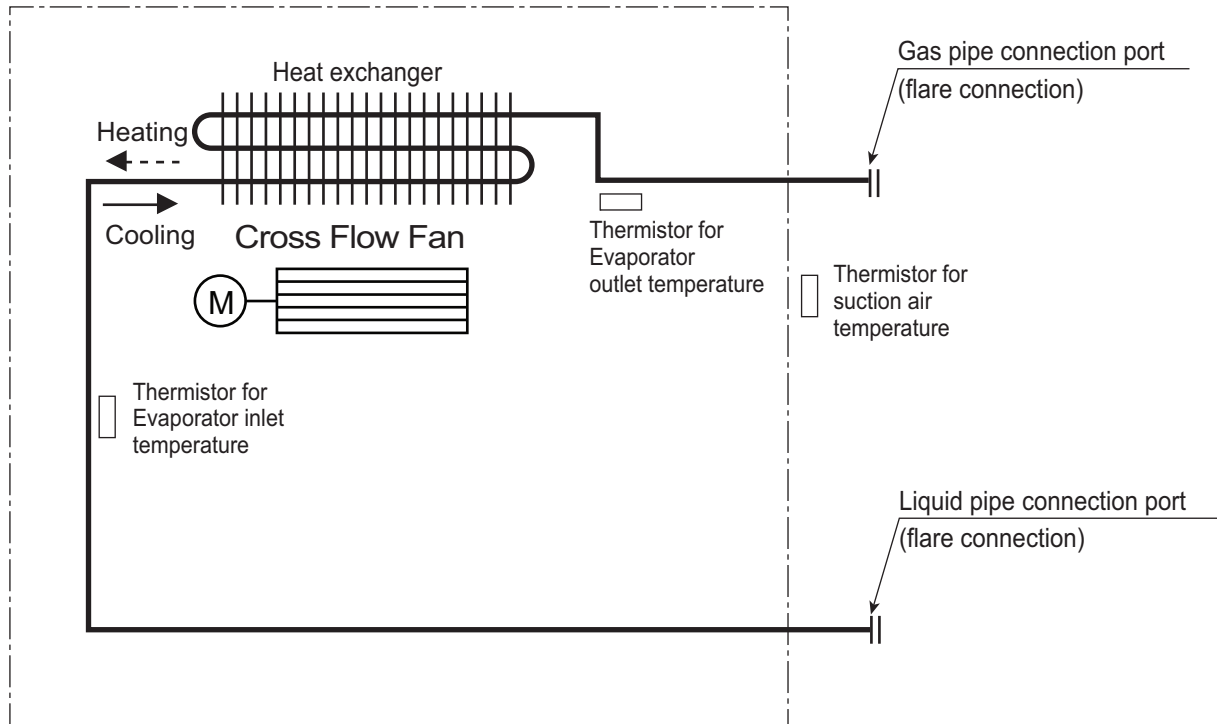
3.2 Installation Space



Note

- Places where products are installed should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- According to type of indoor unit, external appearance or installed structure could be different.
- According to product type, model line up, sales region..etc, applicability of each chassis could be different.

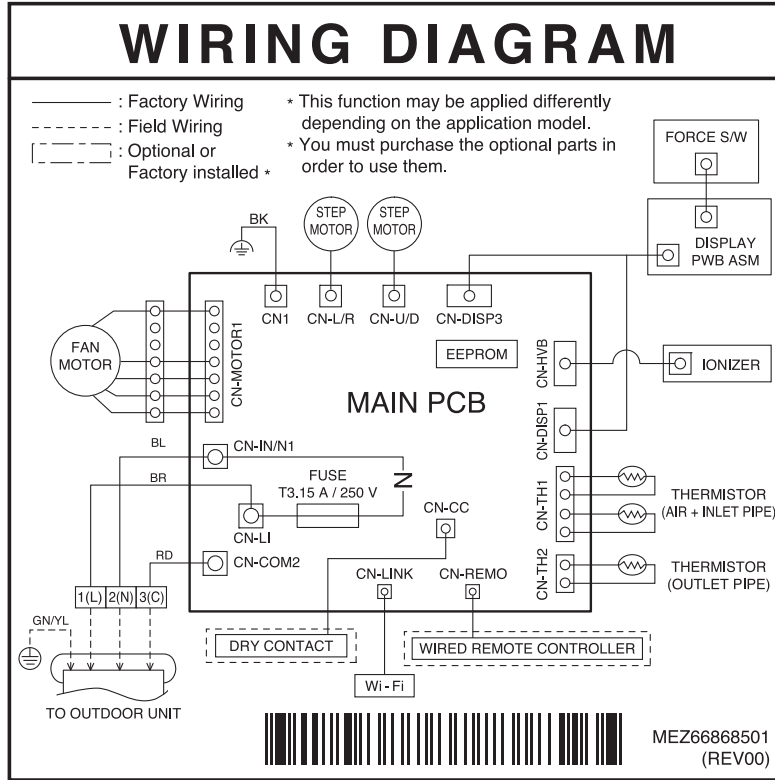
4. Piping diagrams



Description	PCB Connector
Thermistor for suction air temperature	CN-TH1
Thermistor for evaporator inlet temperature	
Thermistor for evaporator outlet temperature	CN-TH2

5. Wiring Diagrams

■ Models : AMNW07/09/12GSJR0, AMNW18/24GSKR0



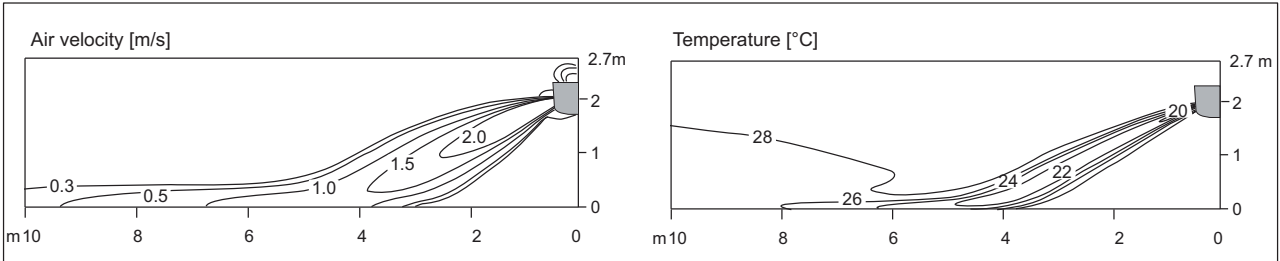
6. Air flow and temperature distributions (reference data)

■ Models : AMNW07/09/12GSJR0

◆ Cooling

Side View

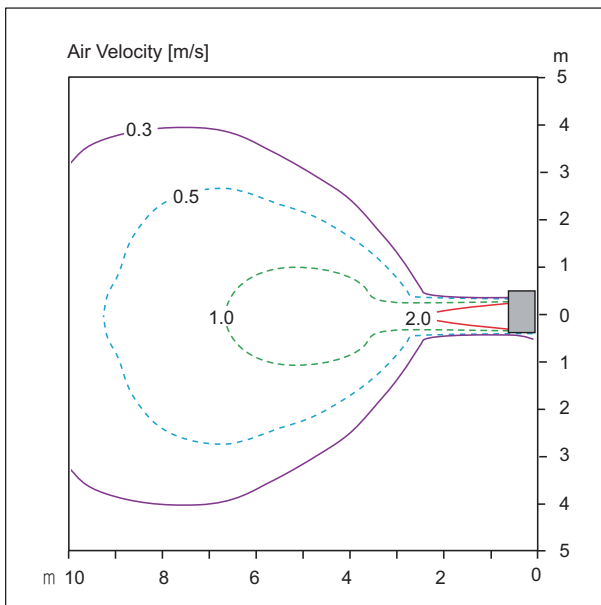
Discharge angle: 35°



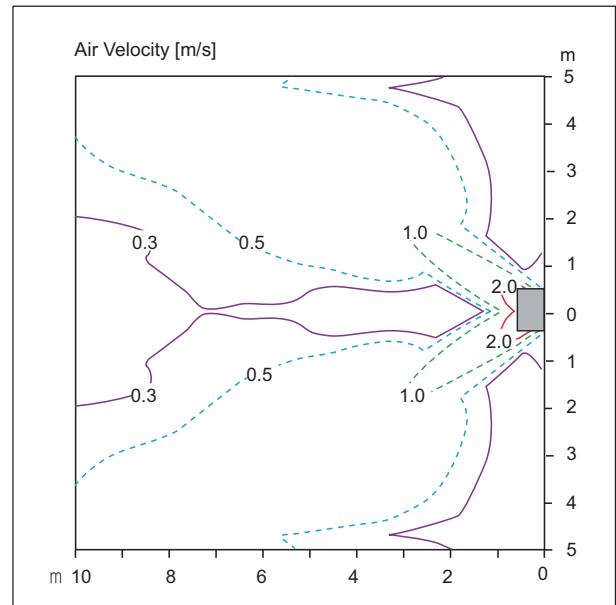
- Vertical Louver : Center
- Fan speed : Super High

Top View

Discharge angle: 35°



- Vertical Louver : Center
- Vertical Vane : 0°
- Fan speed : Super High
- Air speed 0.3m/s Range : 11.5m



- Vertical Louver : Left & Right
- Vertical Vane : 55°
- Fan speed : Super High

Note

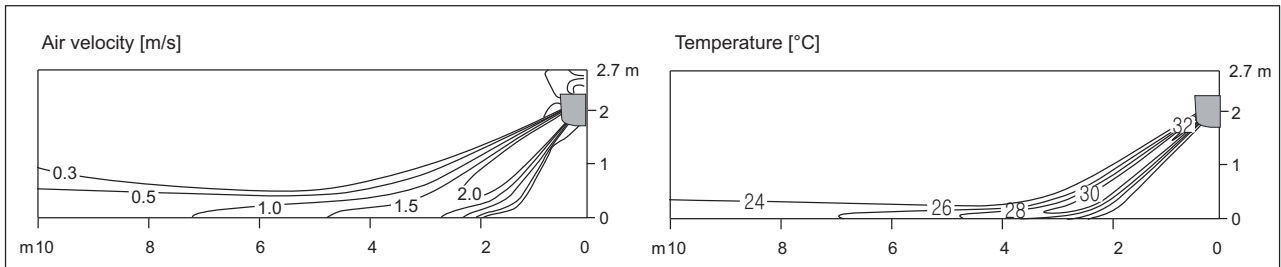
- These figures are accordance with normal certain condition and environment. (Airflow step is 'Super High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

6. Air flow and temperature distributions (reference data)

◆ Heating

Side View

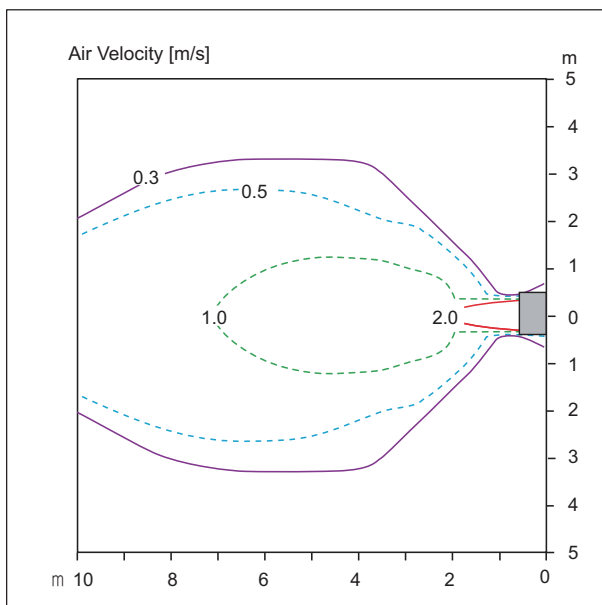
Discharge angle: 55°



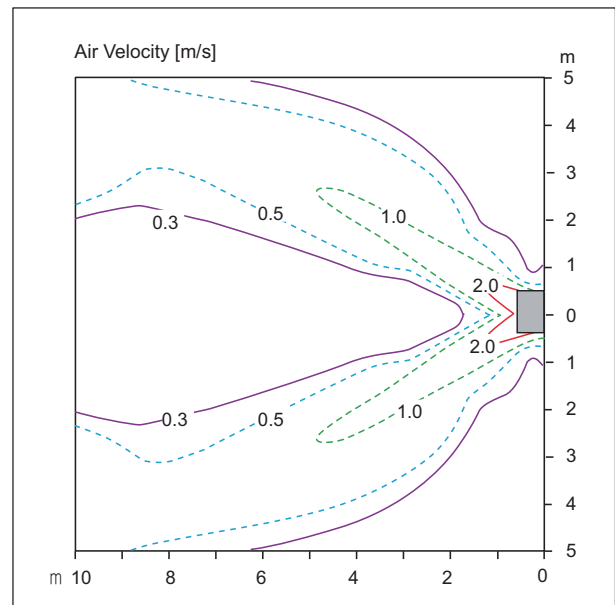
- Vertical Louver : Center
- Fan speed : Super High

Top View

Discharge angle: 55°



- Vertical Louver : Center
- Vertical Vane : 0°
- Fan speed : Super High
- Air speed 0.3m/s Range : 13.5m



- Vertical Louver : Left & Right
- Vertical Vane : 55°
- Fan speed : Super High

Note

- These figures are accordance with normal certain condition and environment. (Airflow step is 'Super High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

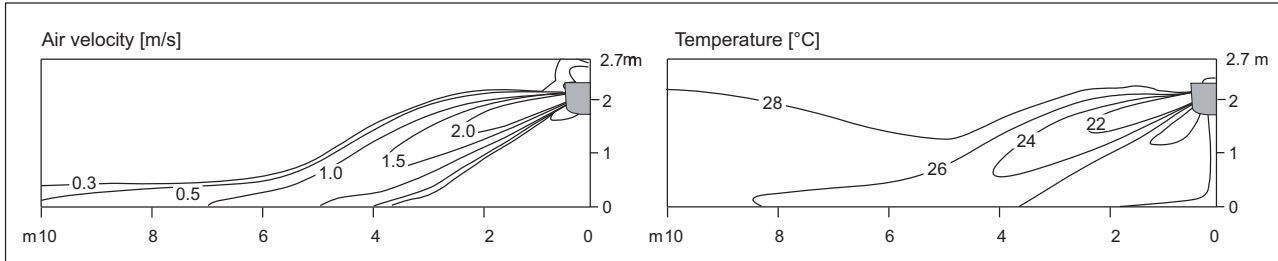
6. Air flow and temperature distributions (reference data)

■ Models : AMNW18GSKR0

◆ Cooling

Side View

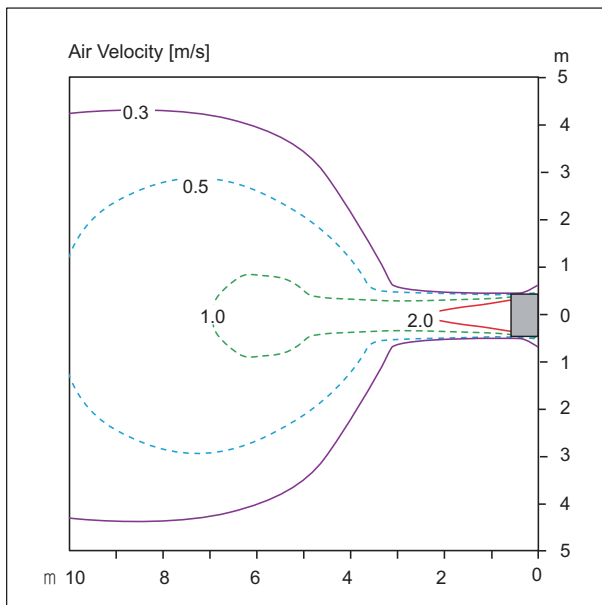
Discharge angle: 25°



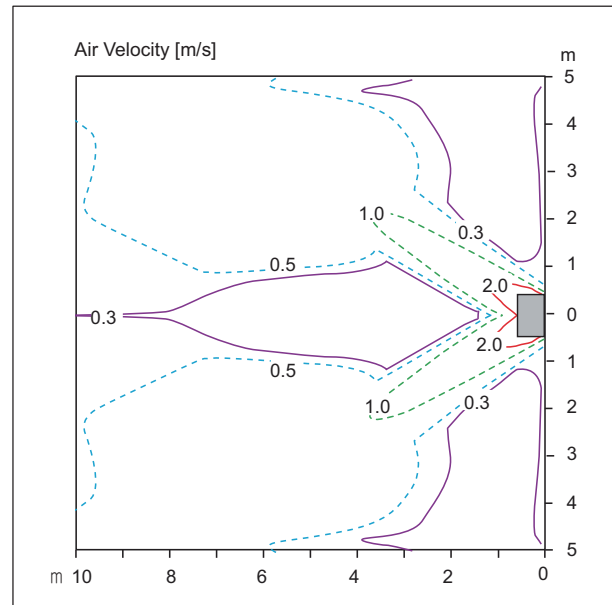
- Vertical Louver : Center
- Fan speed : Super High

Top View

Discharge angle: 25°



- Vertical Louver : Center
- Vertical Vane : 0°
- Fan speed : Super High
- Air speed 0.3m/s Range : 12.9m



- Vertical Louver : Left & Right
- Vertical Vane : 50°
- Fan speed : Super High

Note

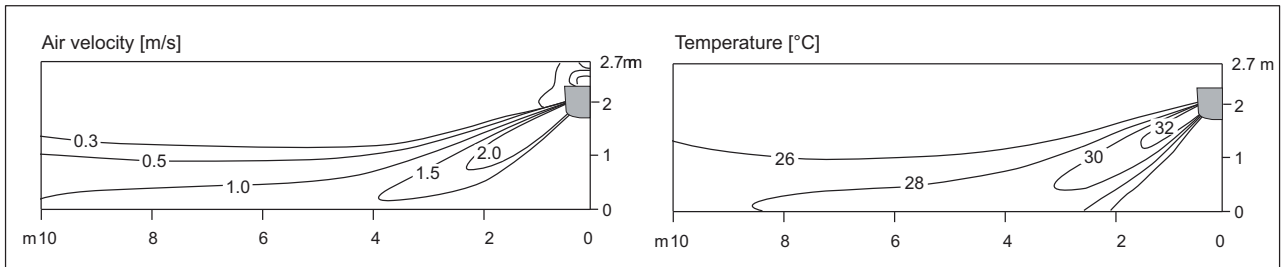
- These figures are accordance with normal certain condition and environment. (Airflow step is 'Super High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

6. Air flow and temperature distributions (reference data)

◆ Heating

Side View

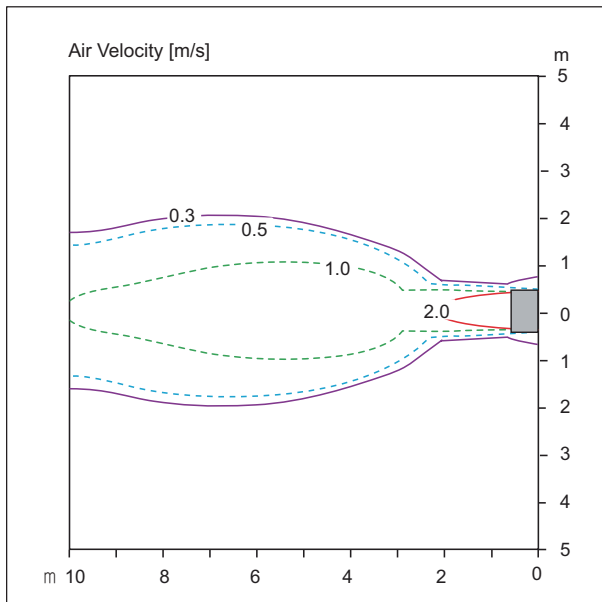
Discharge angle: 45°



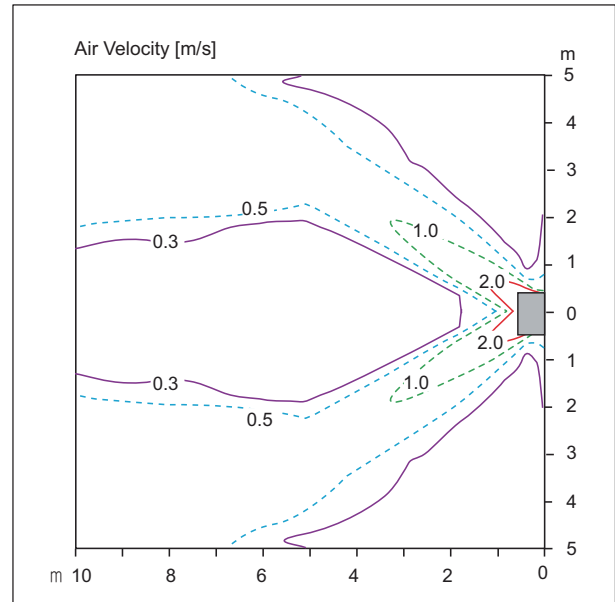
- Vertical Louver : Center
- Fan speed : Super High

Top View

Discharge angle: 45°



- Vertical Louver : Center
- Vertical Vane : 0°
- Fan speed : Super High
- Air speed 0.3m/s Range : 20.0m



- Vertical Louver : Left & Right
- Vertical Vane : 50°
- Fan speed : Super High

Note

- These figures are accordance with normal certain condition and environment. (Airflow step is 'Super High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

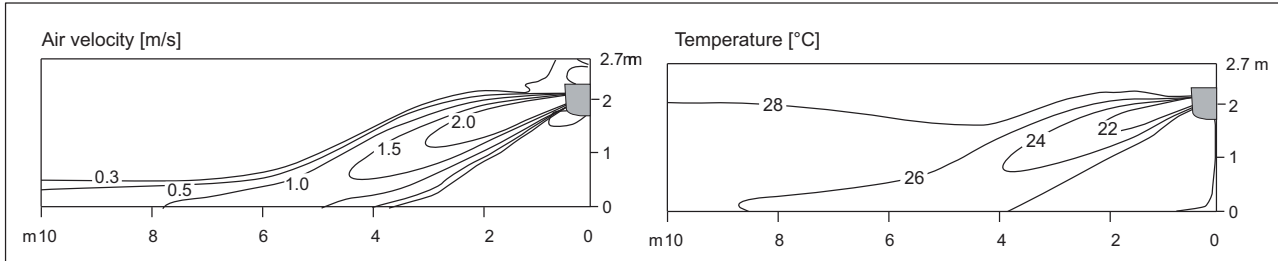
6. Air flow and temperature distributions (reference data)

■ Models : AMNW24GSKR0

◆ Cooling

Side View

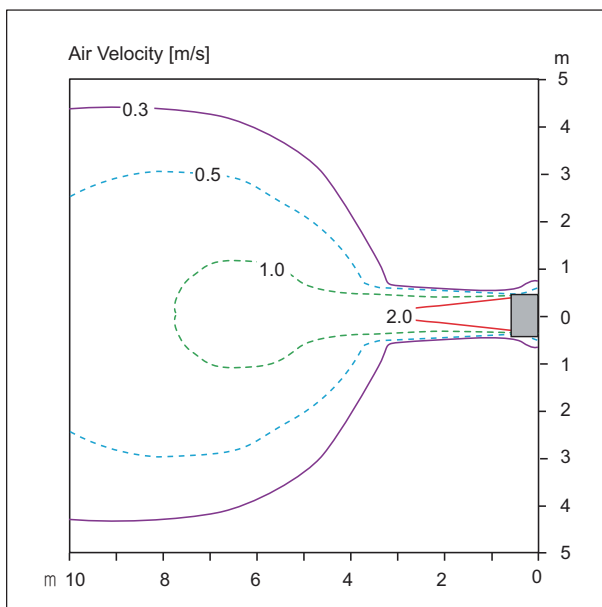
Discharge angle: 25°



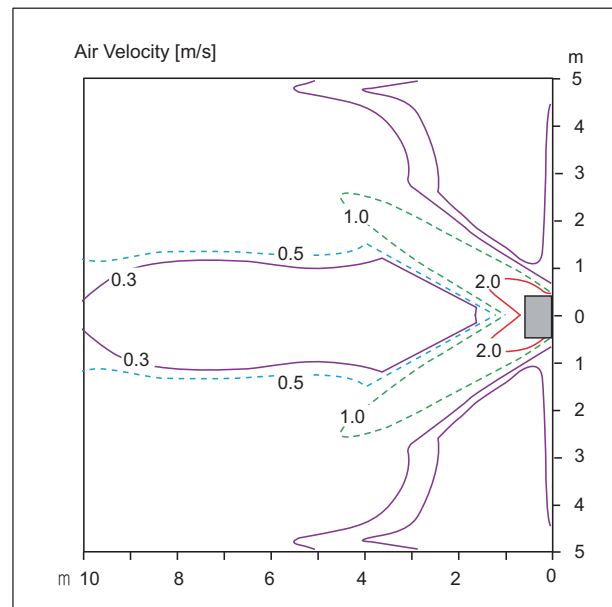
- Vertical Louver : Center
- Fan speed : Super High

Top View

Discharge angle: 25°



- Vertical Louver : Center
- Vertical Vane : 0°
- Fan speed : Super High
- Air speed 0.3m/s Range : 15.0m



- Vertical Louver : Left & Right
- Vertical Vane : 50°
- Fan speed : Super High

Note

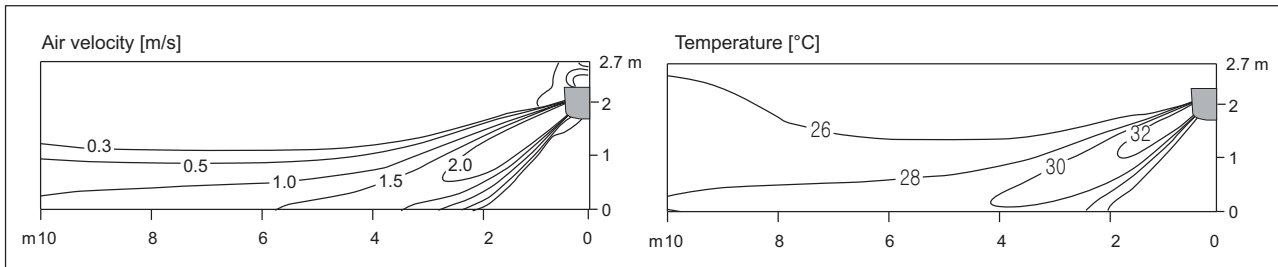
- These figures are accordance with normal certain condition and environment. (Airflow step is 'Super High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

6. Air flow and temperature distributions (reference data)

◆ Heating

Side View

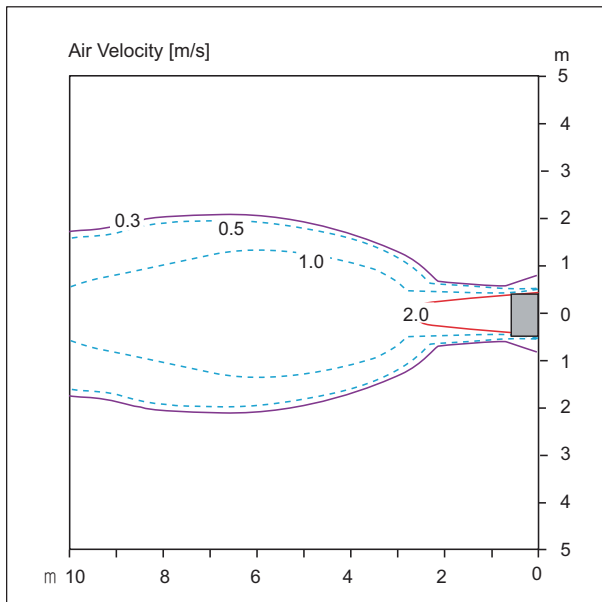
Discharge angle: 45°



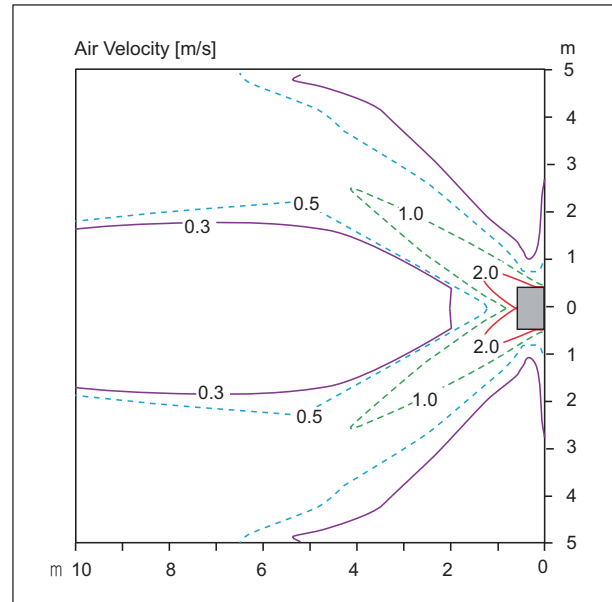
- Vertical Louver : Center
- Fan speed : Super High

Top View

Discharge angle: 45°



- Vertical Louver : Center
- Vertical Vane : 0°
- Fan speed : Super High
- Air speed 0.3m/s Range : 20.0m



- Vertical Louver : Left & Right
- Vertical Vane : 50°
- Fan speed : Super High

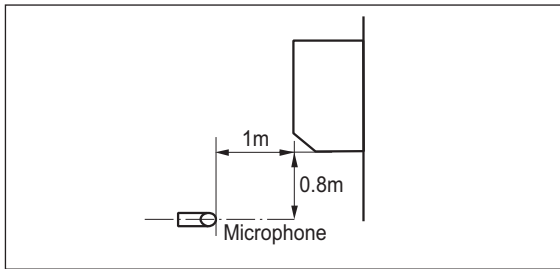
Note

- These figures are accordance with normal certain condition and environment. (Airflow step is 'Super High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

7. Sound levels

7.1 Sound pressure level

Overall

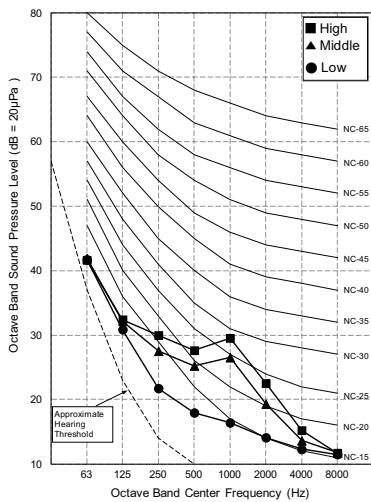


Note

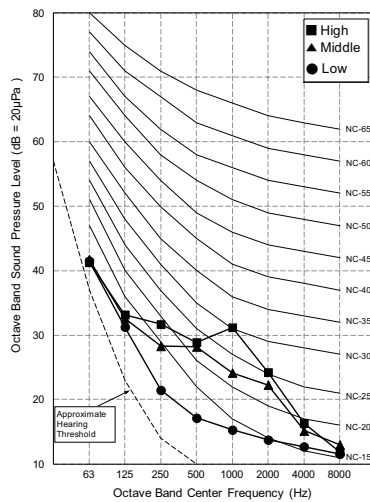
- 1.Sound measured at some distance away from the center of the unit.
- 2.Data is valid at free field condition.
- 3.Reference acoustic pressure 0dB = 20μPa.
- 4.Data is valid at nominal operation condition.
Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
- 5.Sound levels can be increased in accordance with installation and operating conditions. (Static pressure mode, used air guide, Room target temperature setting, etc)
- 6.Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
- 7.Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Therefore, these values can be increased owing to ambient conditions during operation.

Model	Sound pressure Levels [dB(A)]		
	H	M	L
AMNW07GSJR0	35	32	27
AMNW09GSJR0	36	33	27
AMNW12GSJR0	40	35	27
AMNW18GSKR0	44	38	35
AMNW24GSKR0	46	41	36

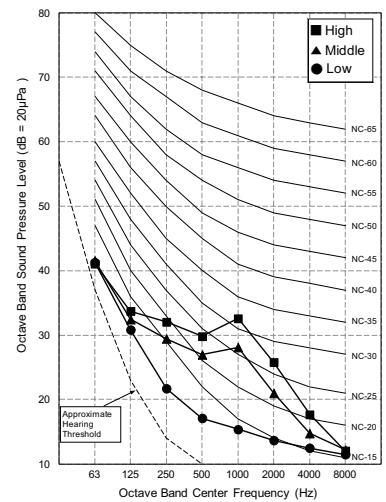
AMNW07GSJR0



AMNW09GSJR0

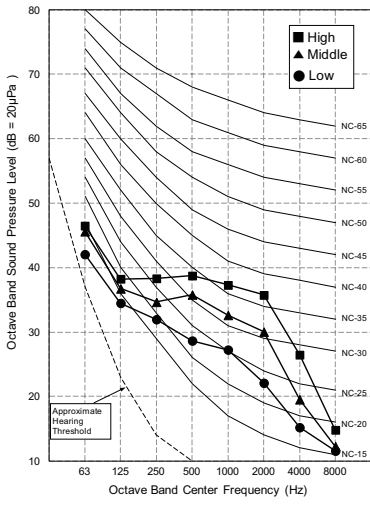


AMNW12GSJR0

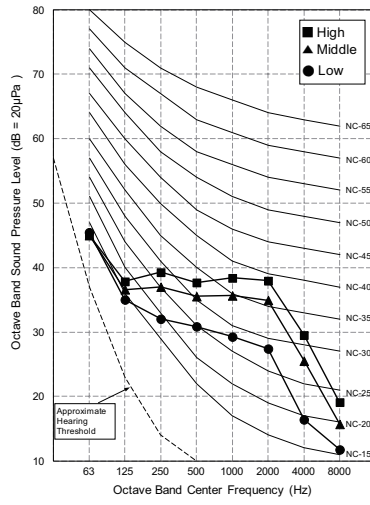


7. Sound levels

AMNW18GSKR0



AMNW24GSKR0



7. Sound levels

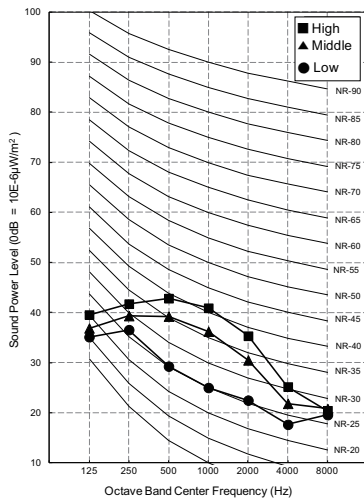
7.2 Sound power level

Note

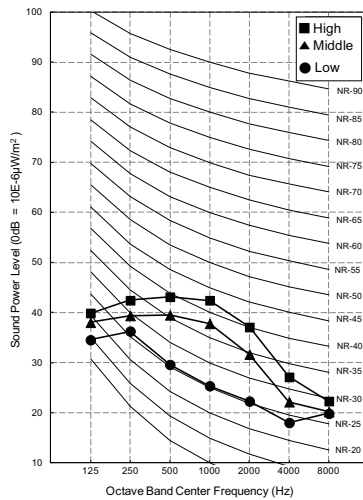
- Data is valid at diffuse field condition
- Data is valid at nominal operating condition
- Sound level can be increased in static pressure mode or used air guide.
- Sound power level is measured on the rated condition in the reverberation rooms.
- Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.
- Reference acoustic intensity 0dB = $10E-6\mu W/m^2$
- Sound power level is measured on the rated condition in the reverberation rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.

Model	Sound power Levels [dB(A)]
	H
AMNW07GSJR0	57
AMNW09GSJR0	57
AMNW12GSJR0	57
AMNW18GSKR0	59
AMNW24GSKR0	65

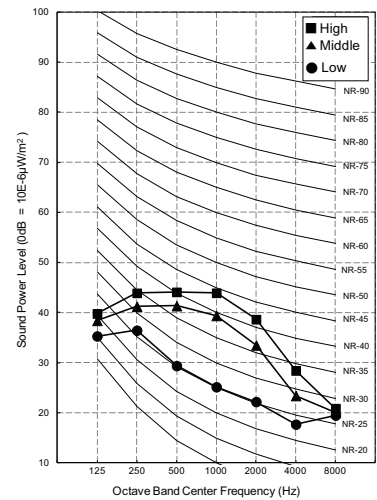
AMNW07GSJR0



AMNW09GSJR0

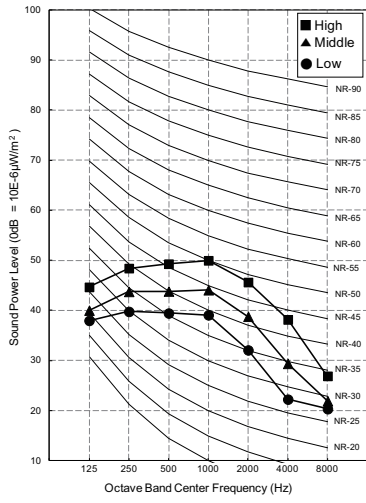


AMNW12GSJR0

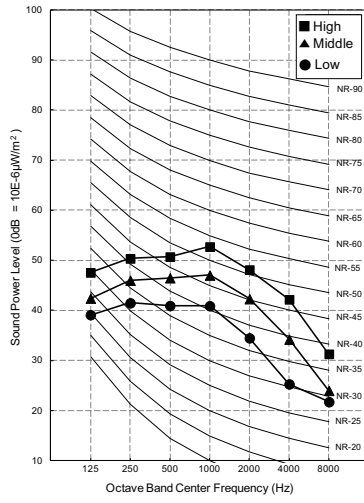


7. Sound levels

AMNW18GSKR0



AMNW24GSKR0



8. Installation

- Please read the instruction sheets completely before installing the product.
 - When the power cord is damaged, replacement work shall be performed by authorized personnel only.
 - Installation work must be performed in accordance with the national wiring standards.
 - Teach the customer the operation and maintenance procedures, using the operation manual. (air filter cleaning, temperature control, etc.)
-

8.1 Selection of the best location

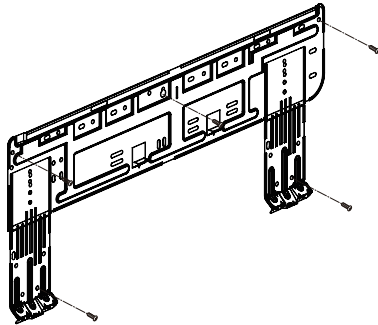
- The unit must be installed indoor area.
- Do not install the unit near the door.
- There should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- The place where the indoor unit can be connected with outdoor unit easily.
- The place where the unit is leveled.
- The place shall allow easy water drainage.
- The place where bear a load exceeding four times of the indoor unit weight.
- The mounting ceiling or wall should be solid enough to protect it from the vibration.
- The place where the unit is not affected by an electrical noise.
- The place where noise prevention is taken into consideration.
- The place where the maintenance space for product is sufficient.
- There should not be any heat source or steam near the unit.

8. Installation

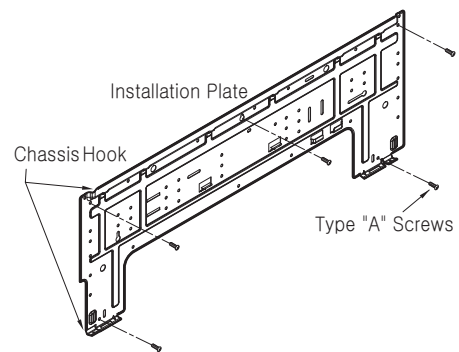
■ Fixing Installation Plate

- The wall you select should be strong and solid enough to prevent vibration.
 1. Mount the installation plate on the wall with type "A" screws which are provided with product. (Refer to the Installation manual.) If mounting the unit on a concrete wall, use anchor bolts.
 - Mount the installation plate horizontally by aligning the centerline using Horizontal meter.
 2. Measure the wall and mark the centerline. It is also important to use caution concerning the location of the installation plate. Routing of the wiring to power outlets is through the walls typically. Drilling the hole through the wall for piping connections must be done safely.

SJ Chassis

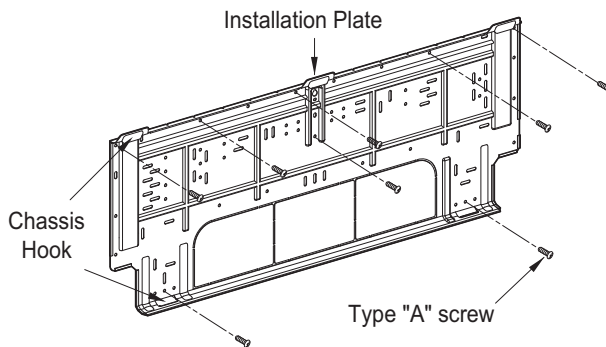


SK Chassis



* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

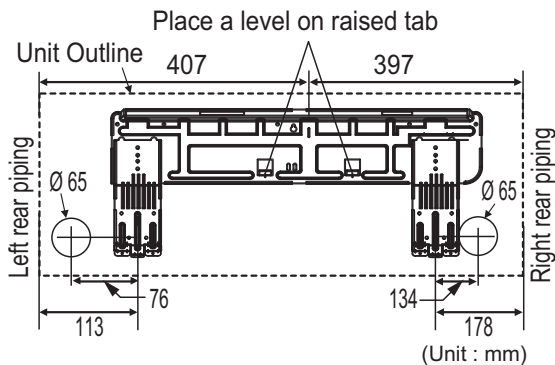
SV Chassis



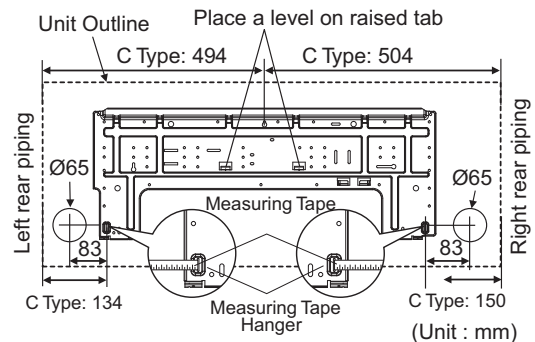
* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

■ The lower left and the right side piping of Installation Plate

SJ chassis



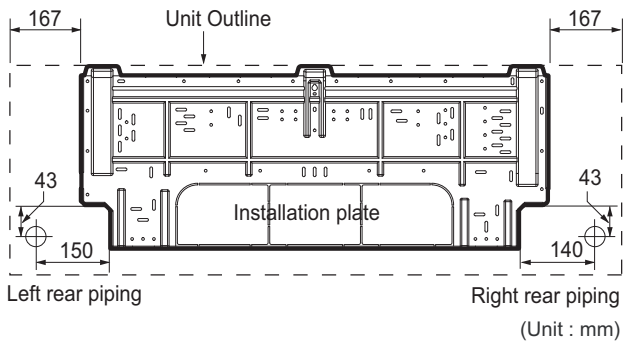
SK chassis



* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

8. Installation

SV chassis



* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

! CAUTION

In case that the unit is installed near the sea, the installation parts may be corroded by salt. The installation parts (and the unit) should be taken appropriate anti-corrosion measures.

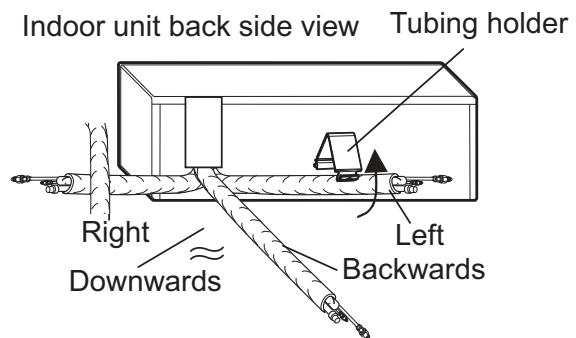
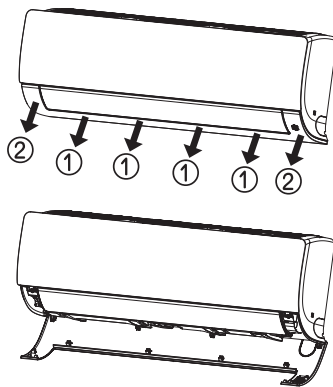
8. Installation

8.2 Connection of pipes and cables

8.2.1 Preparing work for installation

■ SJ/SK chassis

1. Pull the cover at the bottom of the indoor unit. Pull the cover ①→②.
2. Remove the chassis cover from the unit.
3. Pull back the tubing holder.
4. Remove pipe port cover and positioning the tubing.



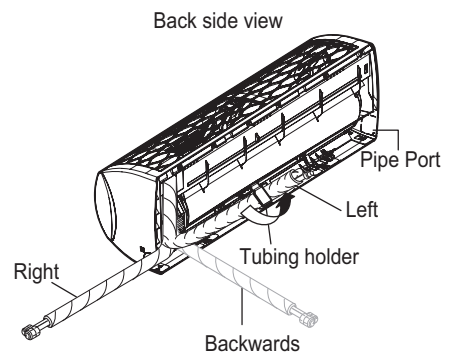
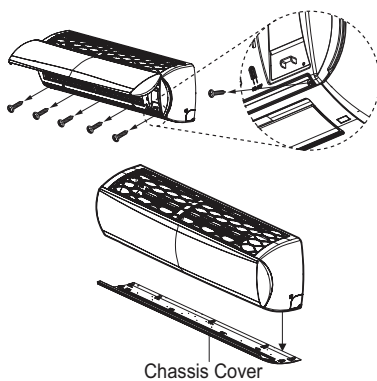
※ The feature can be changed according to type of model.

* The feature can be changed according to type of model.

* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

■ SV chassis

1. Open the panel of the indoor unit.
2. Remove the chassis cover from the unit by loosening 5 screws.
3. Pull back the tubing holder.
4. Remove pipe port cover and position the piping.

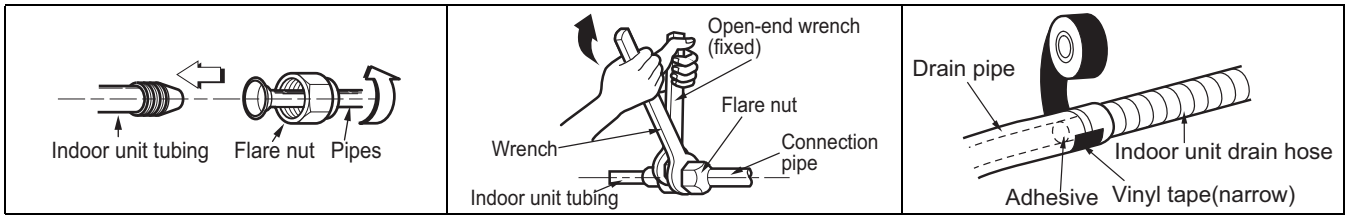


* The feature can be changed according to type of model.

* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

8. Installation

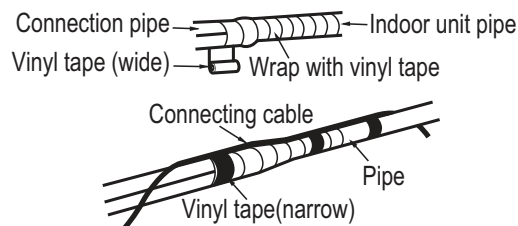
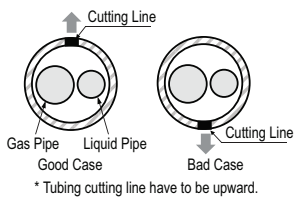
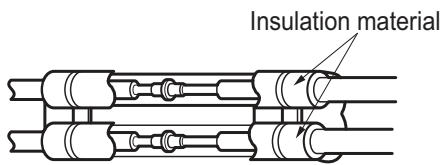
■ Connecting the installation pipe and drain hose



1. Align the center of the pipes and sufficiently tighten the flare nut by hand.
2. Tighten the flare nut with a wrench.
3. When needed to extend the drain hose of indoor unit, assembly the drain pipe as shown on the drawing.

■ Wrap the insulation material around the connecting portion.

1. Overlap the connection pipe insulation material and the indoor unit pipe insulation material. Bind them together with vinyl tape so that there may be no gap.
2. Set the tubing cutting line upward. Wrap the area which accommodates the rear piping housing section with vinyl tape.
3. Bundle the piping and drain hose together by wrapping them with vinyl tape sufficient enough to cover where they fit into the rear piping housing section. Be sure that the drain hose is located at the lowest side of the bundle. Locating at the upper side can cause overflow from the drain pan through the inside of the unit.



⚠ CAUTION

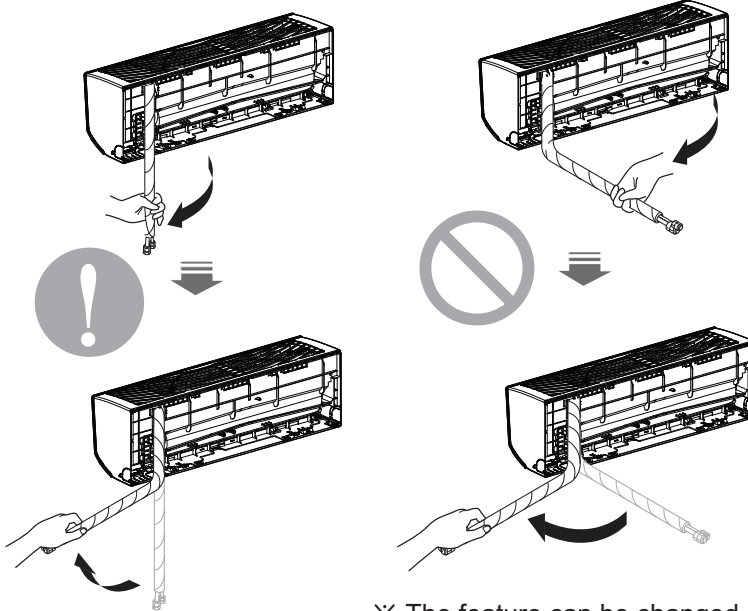
If the drain hose is routed inside the room insulate the hose with an insulation material* so that dripping from sweating condensation) will not damage furniture or floors.

* Foamed polyethylene or equivalent is recommended.

8. Installation

⚠ CAUTION

- Press on the tubing cover and unfold the tubing to downward slowly. And then bend to the left side slowly.
- Following bending case from right to left directly may cause damage to the tubing.



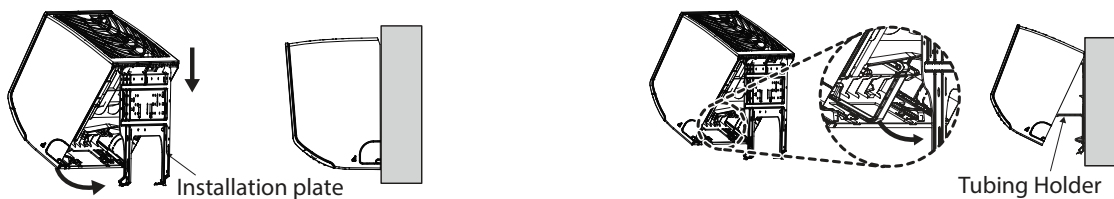
※ The feature can be changed according to type

- Installation Information. For right piping. Follow the instruction above.

8.2.2 Installation of Indoor Unit

■ Seat the indoor unit on the installation plate

1. Hook the indoor unit onto the upper portion of the installation plate.(engage the three hooks at the top of the indoor unit with the upper edge of the installation plate) Ensure that the hooks are properly seated on the installation plate by moving it left and right
2. Unlock the tubing holder from the chassis and mount between the chassis and installation plate in order to separate the bottom side of the indoor unit from the wall.

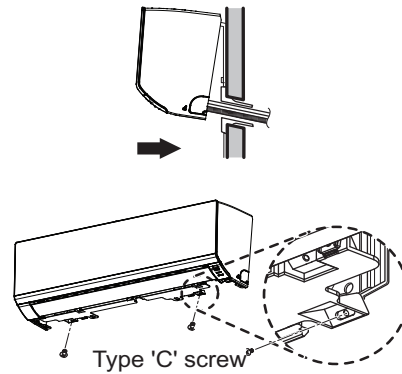


* The feature can be changed according to type of model.

8. Installation

8.2.3 Finishing the indoor unit installation

1. Mount the tubing holder in the original position.
2. Ensure that the hooks are properly seated on the installation plate by moving it left and right.
3. Press the lower left and right sides of the unit against the installation plate until the hooks engage into their slots (clicking sound).
4. Finish the assembly by screwing the unit to the installation plate by using two pieces of type "C" screws. And assemble a chassis cover. (SJ/SK chassis) Recover the chassis cover in Original place. (SV chassis)



* The feature can be changed according to type of model.

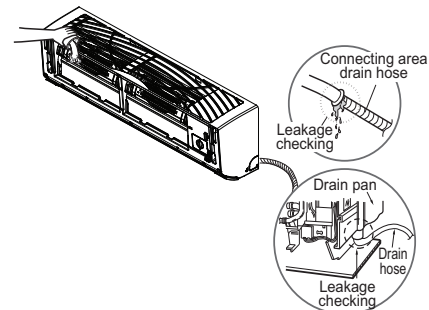
⚠ CAUTION

- The indoor unit can be dropped from the wall, the indoor unit is not screwed correct position on the install plate.
- To avoid the gap between the indoor unit and wall , screw the indoor unit to the install plate correctly.

8.2.4 Checking the Drainage

◆ To check the drainage.

1. Pour a glass of water on the evaporator.
2. Ensure the water flows through the drain hose of the indoor unit without any leakage and goes out the drain exit.

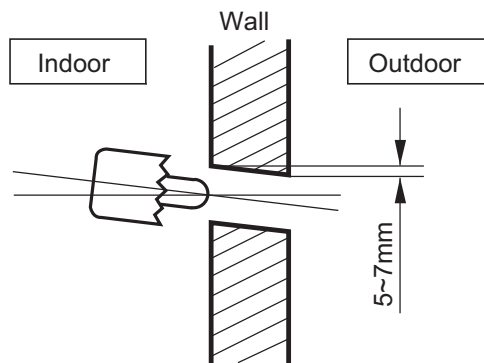


* The feature can be changed according to type of model.

8. Installation

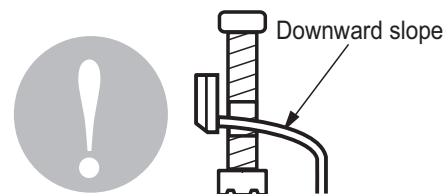
◆ Drill a Hole in the wall

1. Drill the piping hole with a \varnothing 70mm hole core drill.
Drill the piping hole at either the right or the left with the holes slightly slanted to the outdoor side.

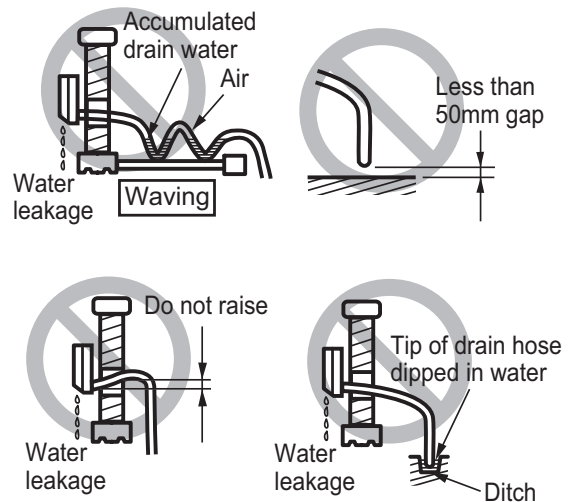


◆ Drain Piping

1. The drain hose should point downward for easy drain flow



2. Do not make drain piping like the following.



* The feature can be changed according to type of model.

8. Installation

8.3 Wiring the cable to the indoor units

8.3.1 General instructions

- All field supplied parts and materials, electric works must conform to local codes. Use copper wire only.
- Follow the "**WIRING DIAGRAM**" attached to the unit body to wire the outdoor unit, indoor units and the remote controller.
- All wiring must be performed by an authorized electrician.
- A circuit breaker capable of shutting down the power supply to the entire system must be installed.

CAUTION

After the confirmation of the above conditions, prepare the wiring as follows:

- Never fail to have separate power specially for the air conditioner.
- Provide a circuit breaker switch between power source and the unit.
- Confirm the Specification of power source.
- Confirm that electrical capacity is sufficient.
- Be sure that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
- Confirm that the cable thickness is as specified in the power sources specification.
(Particularly note the relation between cable length and thickness.)
- Do not install the leakage breaker in a place which is wet or moist.
Water or moist may cause short circuit.
- The following troubles would be caused by voltage drop-down.
 - » Vibration of a magnetic switch, damage on the contact point there of, fuse breaking, disturbance to the normal function of a overload protection device.
 - » Proper starting power is not given to the compressor.

8.3.2 Wiring connection

- Connect the wires to the terminals on the control board individually according to the outdoor unit connection.
- Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively.
- In case of the system with multiple indoor units, mark each indoor unit as unit A, unit B, etc and be sure the terminal board wiring to the outdoor unit and indoor units are properly matched. If wiring and piping between the outdoor unit and an indoor unit are mismatched, the system may cause a malfunction.

8.3.3 Clamping of cables

1. Arrange 2 power cables on the control panel.
2. First, fasten the steel clamp with a screw to the inner boss of control panel.
3. For connecting of communication (transmission) cable, put the cable(or thinner cable) on the clamp and tighten it with a plastic clamp to the other boss of the control panel. In case that communication (transmission) cable is not needed to connect, fix the other side of the clamp with a screw strongly.

8. Installation

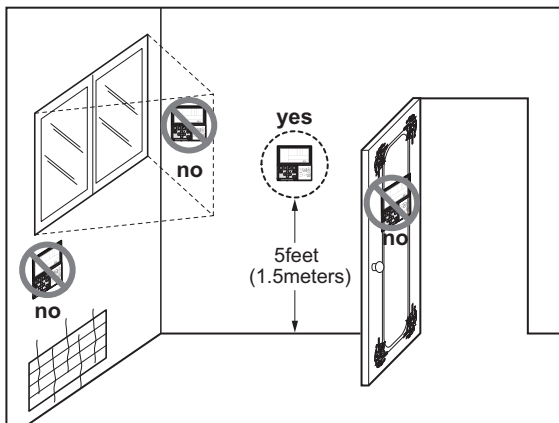
⚠ WARNING

- Make sure that the screws of the terminal are fixed tightly.
- The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could give rise to burn-out of the wires.)
- Make sure to attach the sealing material or (field supplied) to hole of wiring to prevent the infiltration of foreign particle from outside. Otherwise a short-circuit may occur inside the electric parts box.
- When clamping the wires, be sure no pressure is applied to the wire connections by using the included clamping material to make appropriate clamps. Also, when wiring, make sure the cover on the electric parts box fits snugly by arranging the wires neatly and attaching the electric parts box cover firmly. When attaching the electric parts box cover, make sure no wires get caught in the edges. Pass wiring through the wiring through holes to prevent damage to them.
- Make sure the remote controller wiring, the wiring between the units, and other electrical wiring do not pass through the same locations outside of the unit, separating them properly, otherwise electrical noise (external static) could cause product malfunction.

8.3.4 Wired Remote Controller Installation (Optional)

Since the room temperature sensor is in the remote controller, the remote controller box should be installed in a place away from direct sunlight, high humidity and direct supply of cold air to maintain proper space temperature.

Install the remote controller about 5ft(1.5m) above the floor in an area with good air circulation at an average temperature.



• Do not install the remote controller where it can be affected by :

- Drafts, or dead spots behind doors and in corners.
- Hot or cold air from ducts.
- Radiant heat from sun or appliances.
- Concealed pipes and chimneys.
- Uncontrolled areas such as an outside wall behind the remote controller.
- This remote controller is equipped with a seven segment LED. display. For proper display of the remote controller LED's, the remote controller should be installed properly. (The standard height is 1.2~1.5 m from floor level.)

MULTI

Indoor Unit

Ceiling Mounted Cassette 1-way

- 1.List of functions**
- 2.Specification**
- 3.Dimensions**
- 4.Piping Diagrams**
- 5.Wiring Diagrams**
- 6.Air flow and temperature distributions (reference data)**
- 7.Sound levels**
- 8.Installation**

1. List of functions

◆ List of function

Category	Functions	AMNW09GTUC0 AMNW12GTUC0	AMNW18GTTC0 AMNW24GTTC0
Air Flow	Air Supply Outlet	1	1
	Airflow Direction Control (left & right)	Auto	Auto
	Airflow Direction Control (up & down)	Auto	Auto
	Auto Swing (left & right)	O	O
	Auto Swing (up & down)	O	O
	Airflow Steps (fan/cool/heat)	4 / 5 / 4	4 / 5 / 4
	Fan Speed Auto*	Advanced	Advanced
	Power Cool/Heat	O / X	O / X
	Swirl Wind*	X	X
	Refresh Mode**	X	X
	Smart Mode**	X	X
	Indirect Wind*	O	O
	Direct Wind*	O	O
Dry Operation	O	O	
Air Purification	Air Purify	X	Accessory
	Ionizer	X	X
	UV-C	X	X
	Pre-Filter	O	O
	PM1.0 Filter	X	X
Reliability	Hot Start	O	O
	Self Diagnosis	O	O
Convenience	Auto Mode	O	O
	Auto Dry Operation	O	O
	Auto Restart	O	O
	Child Lock*	O	O
	Forced Operation	O	O
	Group Control*	O	O
	Sleep Timer	O	O
	Turn On/Off Reservation	O	O
	Schedule*	O	O
	Two Thermistor Control*	O	O
External On/Off	O	O	
Installation	Drain Pump	O	O
	E.S.P. Control*	O	O
	High Ceiling Operation*	O	O
Special Functions	Wi-Fi	Accessory	Accessory
	Auto Elevation Grille	X	X
	Human Detection Function**	X	X
	Floor Detection Function**	X	X

Note

- O : Applied, X : Not Applied, - : Unconfirmed or irrelevant
Embedded : A kit is provided by default for using this function when the product is manufactured.
Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field. Accessory line-ups varies by region, so check your local catalogue or local sales material.
- Some functions can be limited by remote controller.
- In case of cassette type indoor units, Air Purification Kit and Auto Elevation Grille functions are not applicable at the same time.
- 'Auto Mode' varies depending on the outdoor unit type.
- Auto Change Over(Single Heat Pump Outdoor Unit)
- Auto Mode Select(Multi Heat Pump Outdoor Unit)
- Auto Intensity Control(Cooling Only Outdoor Unit)
- * : These functions need to connect the wired remote controller.
- ** : This functions need to connect to the Standard III wired remote controller.

1. List of functions

◆ Accessory Compatibility List

Category		Product	Remark	AMNW09GTUC0 AMNW12GTUC0 AMNW18GTTC0 AMNW24GTTC0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O (Embedded)
		PWLSSB21H	Heat Pump	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	Standard	PREMTB001	Standard II (White)	O
		PREMTBB01	Standard II (Black)	O
		PREMTB100**	Standard III (White)	X
Premium	PREMTA000(A/B)	Premium	O	
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	For 3rd Party Thermostat	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O
		PDRYCB500	For Modbus	X
Gateway	IDU PI485	PHNFP14A0	Without case	X
		PSNFP14A0	With case	X
ETC	Remote temperature sensor	PQRSTA0	-	O
	Zone controller	ABZCA	-	X
	CTI (Communication transfer interface)	PKFC0	-	X
	CO ₂ Sensor	PES-C0RV0	For ERV, ERV DX Indoor units	X
	Group control wire	PZCWRCG3	0.25m	O
	2-Remo Control Wire	PZCWRC2	0.25m	X
	Extension Wire	PZCWRC1	10m	X
Wi-Fi Controller*	PWFMD200	-	O	

Note

1. O: Possible, X: Impossible, -: Not applicable, Embedded: Included with product.
2. *: Some advanced functions controlled by individual controller cannot be operated.
3. **: It could not be operated some functions.
4. If you need more detail, please refer to the **BECON** PDB or the manual of product. (<http://partner.lge.com/global> : Home> Doc.Library> Product > Control(BECON))

1. List of functions

◆ List of function

Category	Functions	AMNW09GTUA0 AMNW12GTUA0 AMNW18GTUA0
Air Flow	Air Supply Outlet	1
	Airflow Direction Control (left & right)	Auto
	Airflow Direction Control (up & down)	Auto
	Auto Swing (left & right)	0
	Auto Swing (up & down)	0
	Airflow Steps (fan/cool/heat)	4 / 5 / 4
	Fan Speed Auto*	Advanced
	Power Cool/Heat	0 / X
	Swirl Wind*	X
	Refresh Mode**	X
	Smart Mode**	X
	Indirect Wind*	0
	Direct Wind*	0
Dry Operation	0	
Air Purification	Air Purify	X
	Ionizer	X
	UV-C	X
	Pre-Filter	0
	PM1.0 Filter	X
Reliability	Hot Start	0
	Self Diagnosis	0
Convenience	Auto Mode	0
	Auto Dry Operation	0
	Auto Restart	0
	Child Lock*	0
	Forced Operation	0
	Group Control*	0
	Sleep Timer	0
	Turn On/Off Reservation	0
	Schedule*	0
	Two Thermistor Control*	0
External On/Off	0	
Installation	Drain Pump	0
	E.S.P. Control*	0
	High Ceiling Operation*	0
Special Functions	Wi-Fi	X
	Auto Elevation Grille	X
	Human Detection Function**	X
	Floor Detection Function**	X

Note

1. 0 : Applied, X : Not Applied, - : Unconfirmed or irrelevant

Embedded : A kit is provided by default for using this function when the product is manufactured.

Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field. Accessory line-ups varies by region, so check your local catalogue or local sales material.

2. Some functions can be limited by remote controller.

3. In case of cassette type indoor units, Air Purification Kit and Auto Elevation Grille functions are not applicable at the same time.

4. 'Auto Mode' varies depending on the outdoor unit type.

- Auto Change Over(Single Heat Pump Outdoor Unit)

- Auto Mode Select(Multi Heat Pump Outdoor Unit)

- Auto Intensity Control(Cooling Only Outdoor Unit)

5. * : These functions need to connect the wired remote controller.

6. ** : This functions need to connect to the Standard III wired remote controller.

1. List of functions

◆ Accessory Compatibility List

Category		Product	Remark	AMNW09GTUA0 AMNW12GTUA0 AMNW18GTTA0	AMNW09GTUA0 *** AMNW12GTUA0 *** AMNW18GTTA0 ***
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O (Embedded)	O
		PWLSSB21H	Heat Pump	O	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O	O
		PQRCHCA0Q(W)	for Hotel	O	O
	Standard	PREMTB001	Standard II (White)	O	O (Embedded)
		PREMTBB01	Standard II (Black)	O	O
	PREMTB100**	Standard III (White)	X	X	
	Premium	PREMTA000(A/B)	Premium	O	O
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O	O
		PDRYCB300	For 3rd Party Thermostat	O	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O	O
		PDRYCB500	For Modbus	X	X
Gateway	IDU PI485	PHNFP14A0	Without case	X	X
		PSNFP14A0	With case	X	X
ETC	Remote temperature sensor	PQRSTA0	-	O	O
	Zone controller	ABZCA	-	X	X
	CTI (Communication transfer interface)	PKFC0	-	X	X
	CO ₂ Sensor	PES-C0RV0	For ERV, ERV DX Indoor units	X	X
	Group control wire	PZCWRCG3	0.25m	O	O
	2-Remo Control Wire	PZCWRC2	0.25m	X	X
	Extension Wire	PZCWRC1	10m	X	X
	Wi-Fi Controller*	PWFMDD200	-	X	X

Note

1. O: Possible, X: Impossible, -: Not applicable, Embedded: Included with product.
 2. *: Some advanced functions controlled by individual controller cannot be operated.
 3. **: It could not be operated some functions.
 4. If you need more detail, please refer to the **BECON** PDB or the manual of product. (<http://partner.lge.com/global> : Home> Doc.Library> Product > Control(BECON))
- ***: This applies only to Algeria models.

2. Specifications

Model Name				AMNW09GTUC0 AMNW09GTUA0	AMNW12GTUC0 AMNW12GTUA0
Power Supply		V, Ø, Hz		220-240, 1, 50 220, 1, 60	220-240, 1, 50 220, 1, 60
Power Input		W		-	-
Running Current		A		0.20	0.20
Casing Color		-		-	-
Dimensions	Body	W x H x D	mm	860 × 132 × 450	860 × 132 × 450
Weight	Body	kg (lbs)		11.7 (25.8)	11.7 (25.8)
	Shipping	kg (lbs)		14.4 (31.7)	14.4 (31.7)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 × 12 × 18) × 1	(2 × 12 × 18) × 1
	Face Area		m ² (ft ²)	0.18 (1.90)	0.18 (1.90)
Fan	Type	-		Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m ³ /min	7.5 / 7.3 / 6.8	8.1 / 7.4 / 7.0
		H / M / L	ft ³ /min	265 / 258 / 240	286 / 261 / 247
Fan Motor	Type	-		BLDC	BLDC
	Output	W × No.		20 × 1	20 × 1
Sound Pressure Level		H / M / L	dB(A)	36 / 34 / 32	37 / 36 / 33
Sound Power Level		Max.		54	57
Piping Connections	Liquid	mm(inch)		Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas	mm(inch)		Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Drain (O.D. / I.D.)	mm		Ø 32.0 / 25.0	Ø 32.0 / 25.0
Safety Devices		-		Fuse	
		-		Thermal Protector for Fan Motor	
Power and Communication Cable (included Earth)			No. × mm ²	4C x 0.75	4C x 0.75
Decoration Panel 1	Model Name		-	PT-UUC1	PT-UUC1
	Exterior	Color	-	Morning Fog	Morning Fog
		RAL (Classic)	-	RAL 9001	RAL 9001
	Dimensions	W x H x D	mm	1,100 × 34 × 500	1,100 × 34 × 500
		W x H x D	inch	43-5/16 × 1-11/32 × 19-11/16	43-5/16 × 1-11/32 × 19-11/16
Net weight		kg (lbs)		4.4 (9.7)	4.4 (9.7)
Decoration Panel 2	Model Name		-	PT-UAHG0	PT-UAHG0
	Exterior	Color	-	White	White
		RAL (Classic)	-	RAL 9003	RAL 9003
	Dimensions	W x H x D	mm	1,160 × 34 × 500	1,160 × 34 × 500
		W x H x D	inch	45-21/32 × 1-11/32 × 19-11/16	45-21/32 × 1-11/32 × 19-11/16
Net weight		kg (lbs)		3.93 (8.66)	3.93 (8.66)
Decoration Panel 3	Model Name		-	PT-UPHG0	PT-UPHG0
	Exterior	Color	-	White	White
		RAL (Classic)	-	RAL 9003	RAL 9003
	Dimensions	W x H x D	mm	1,160 × 34 × 500	1,160 × 34 × 500
		W x H x D	inch	45-21/32 × 1-11/32 × 19-11/16	45-21/32 × 1-11/32 × 19-11/16
Net weight		kg (lbs)		4.1 (9.0)	4.1 (9.0)
Note					
1. Due to our policy of innovation some specifications may be changed without notification.					
2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.					
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).					
4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.					
<ul style="list-style-type: none"> • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB • Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m. 					

2. Specifications

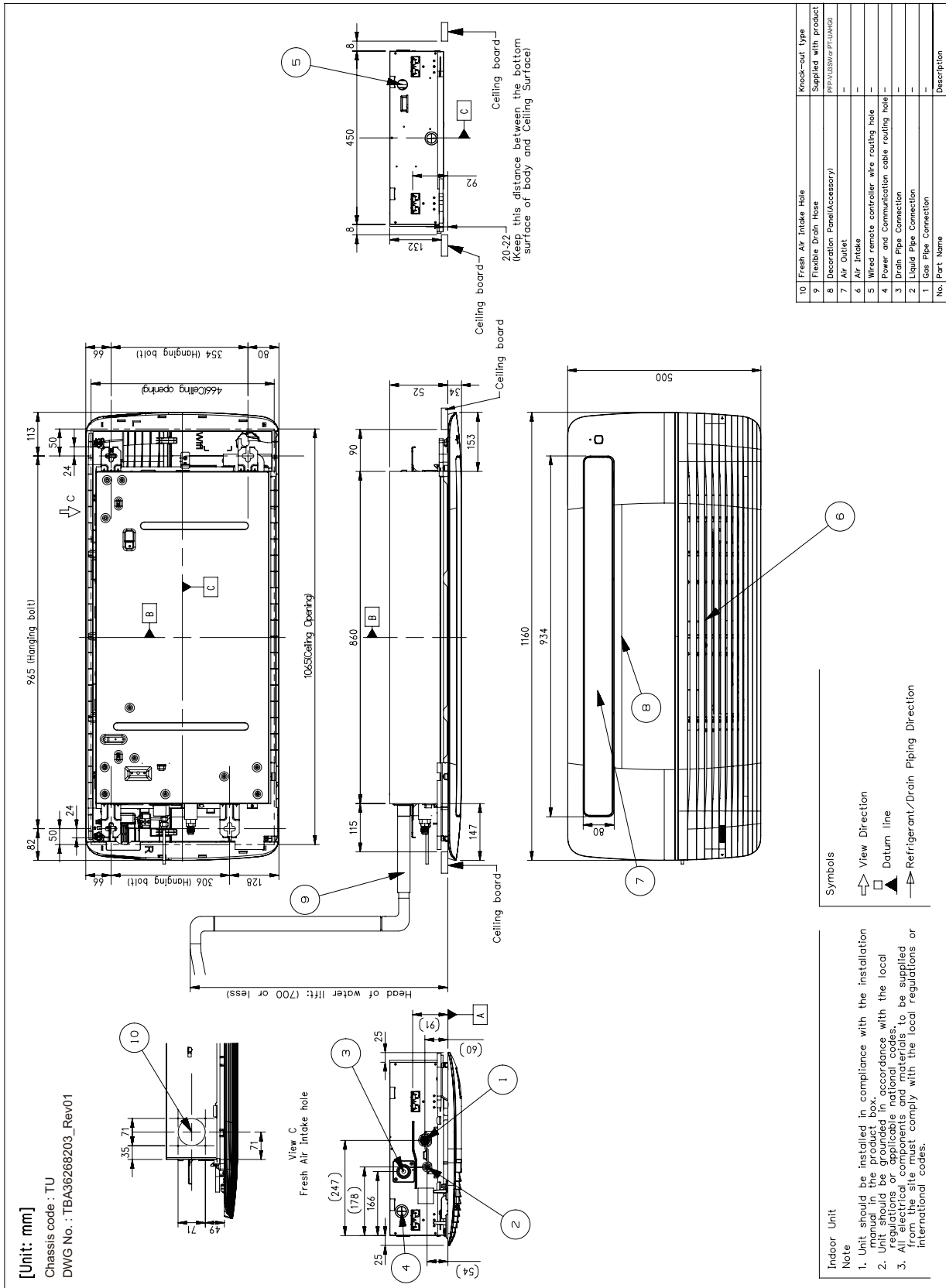
Model Name				AMNW18GTTTC0 AMNW18GTTA0	AMNW24GTTTC0
Power Supply		V, Ø, Hz		220-240, 1, 50 220, 1, 60	220-240, 1, 50 220, 1, 60
Power Input		W		-	-
Running Current		A		0.31	0.31
Casing Color		-		-	-
Dimensions	Body	W x H x D	mm	1,180 × 132 × 450	1,180 × 132 × 450
Weight	Body	kg (lbs)		14.5 (32.0)	14.5 (32.0)
	Shipping	kg (lbs)		17.5 (38.6)	17.5 (38.6)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 × 12 × 18) × 1	(2 × 12 × 18) × 1
	Face Area		m ² (ft ²)	0.24 (2.58)	0.24 (2.58)
Fan	Type	-		Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m ³ /min	13.5 / 11.3 / 10.1	14.2 / 12.3 / 10.5
		H / M / L	ft ³ /min	477 / 399 / 356	501 / 434 / 370
Fan Motor	Type	-		BLDC	BLDC
	Output	W × No.		30 × 1	30 × 1
Sound Pressure Level	H / M / L		dB(A)	44 / 42 / 39	47 / 43 / 40
Sound Power Level	Max.		dB(A)	59	61
Piping Connections	Liquid	mm(inch)		Ø 6.35 (1/4)*	Ø 6.35 (1/4)*
	Gas	mm(inch)		Ø 12.7 (1/2)*	Ø 12.7 (1/2)*
	Drain (O.D. / I.D.)	mm		Ø 32.0 / 25.0	Ø 32.0 / 25.0
Safety Devices			-	Fuse	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Power and Communication Cable (included Earth)			No. × mm ²	4C x 0.75	4C x 0.75
Decoration Panel 1	Model Name		-	PT-UTC	PT-UTC
	Exterior	Color	-	White	White
		RAL (Classic)	-	RAL 9003	RAL 9003
	Dimensions	W x H x D	mm	1,420 × 34 × 500	1,420 × 34 × 500
		W x H x D	inch	55-29/32 × 1-11/32 × 19-11/16	55-29/32 × 1-11/32 × 19-11/16
Net weight		kg (lbs)		5.5 (12.1)	5.5 (12.1)
Decoration Panel 2	Model Name		-	PT-TAHG0	PT-TAHG0
	Exterior	Color	-	White	White
		RAL (Classic)	-	RAL 9003	RAL 9003
	Dimensions	W x H x D	mm	1,480 × 34 × 500	1,480 × 34 × 500
		W x H x D	inch	58-9/32 x 1-11/32 x 19-11/16	58-9/32 x 1-11/32 x 19-11/16
Net weight		kg (lbs)		4.8 (10.6)	4.8 (10.6)
Decoration Panel 3	Model Name		-	PT-TPHG0	PT-TPHG0
	Exterior	Color	-	White	White
		RAL (Classic)	-	RAL 9003	RAL 9003
	Dimensions	W x H x D	mm	1,480 × 34 × 500	1,480 × 34 × 500
		W x H x D	inch	58-9/32 x 1-11/32 x 19-11/16	58-9/32 x 1-11/32 x 19-11/16
Net weight		kg (lbs)		4.9 (10.8)	4.9 (10.8)

Note

- Due to our policy of innovation some specifications may be changed without notification.
 - Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
 - Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).
 - Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.
 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
- * : For combined with Multi system, socket provided with indoor units should be connected.

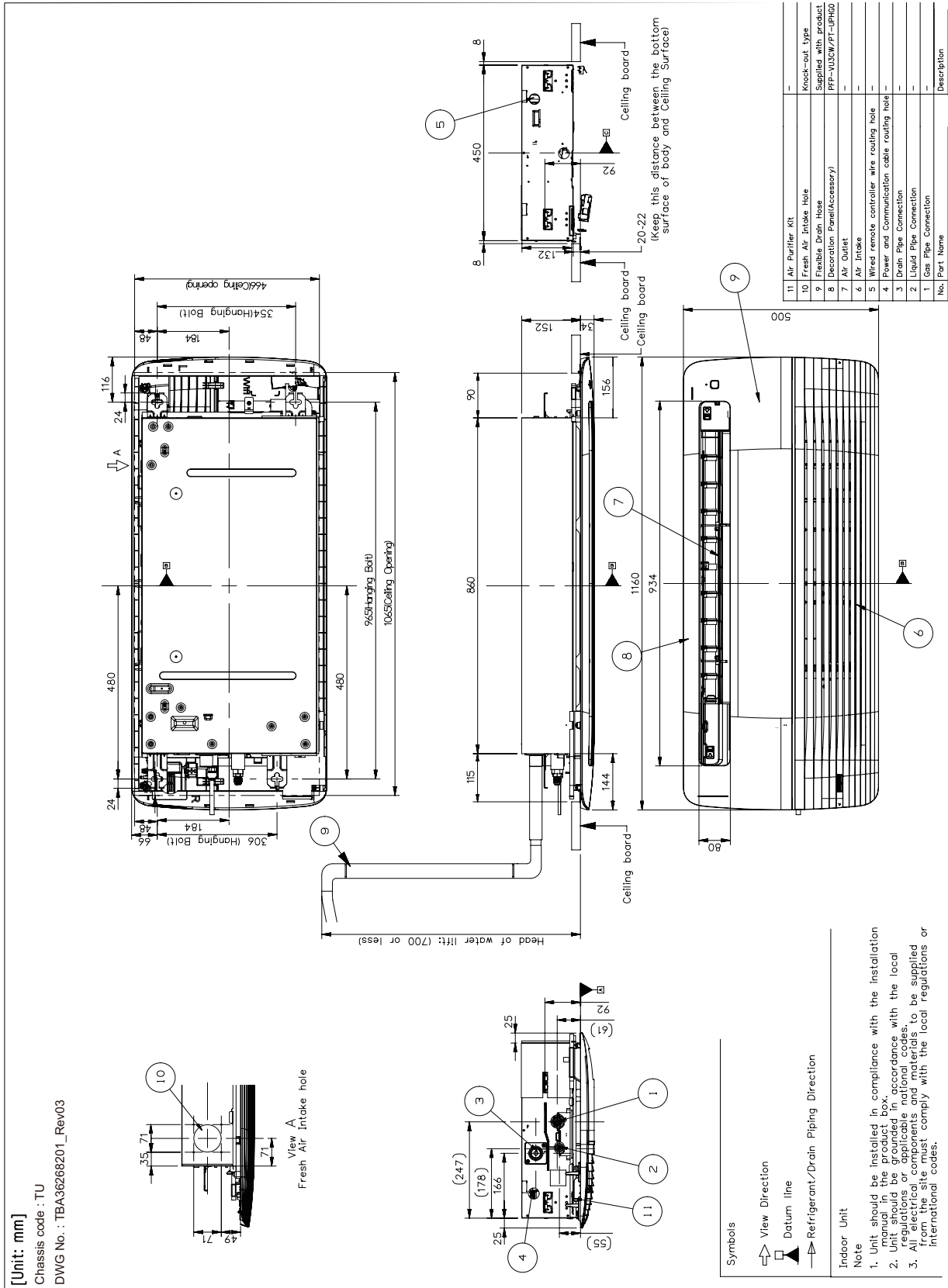
3. Dimensions

◆ Panel Name : PT-UAHG0



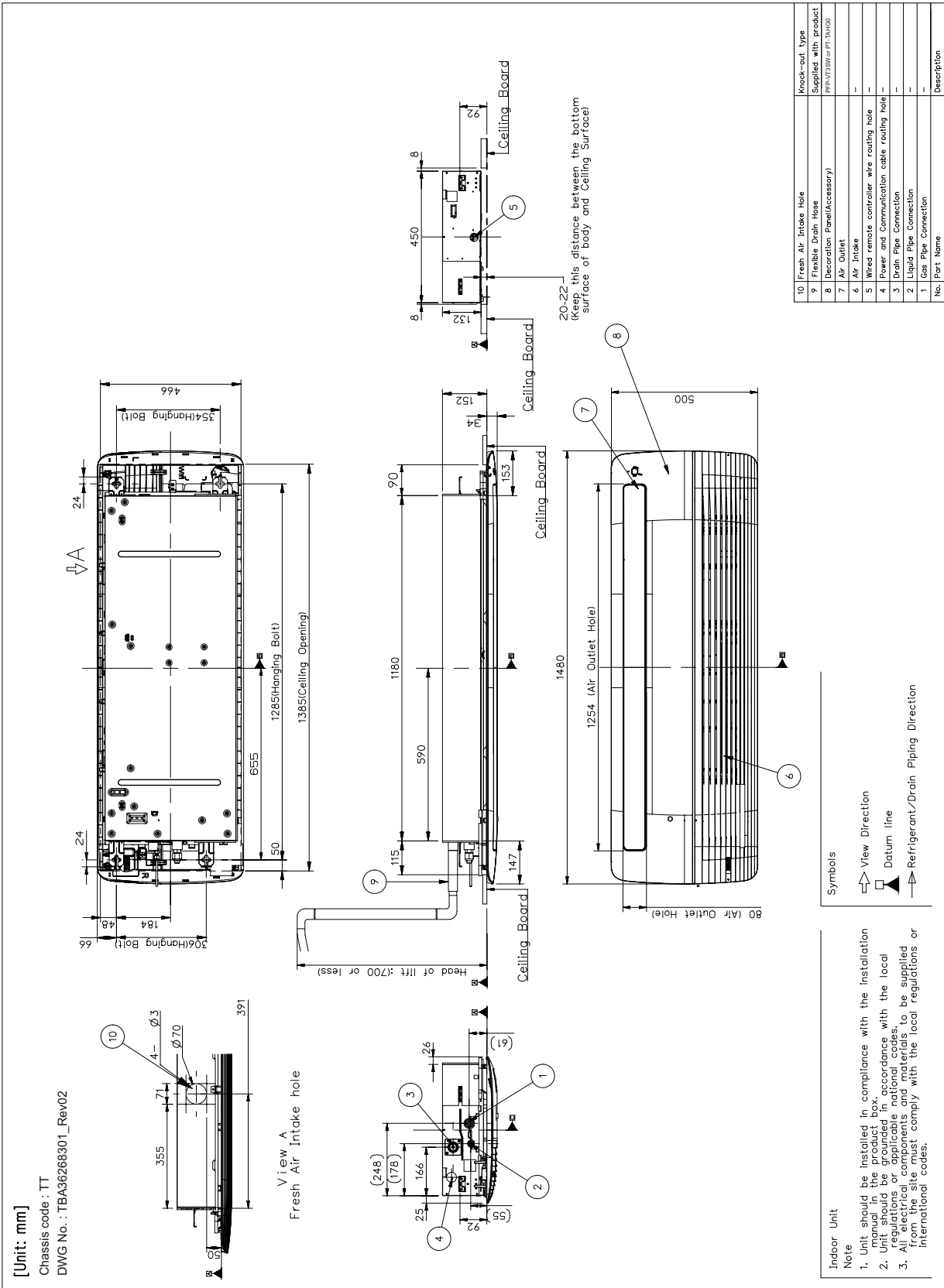
3. Dimensions

◆ Panel Name : PT-UPHG0



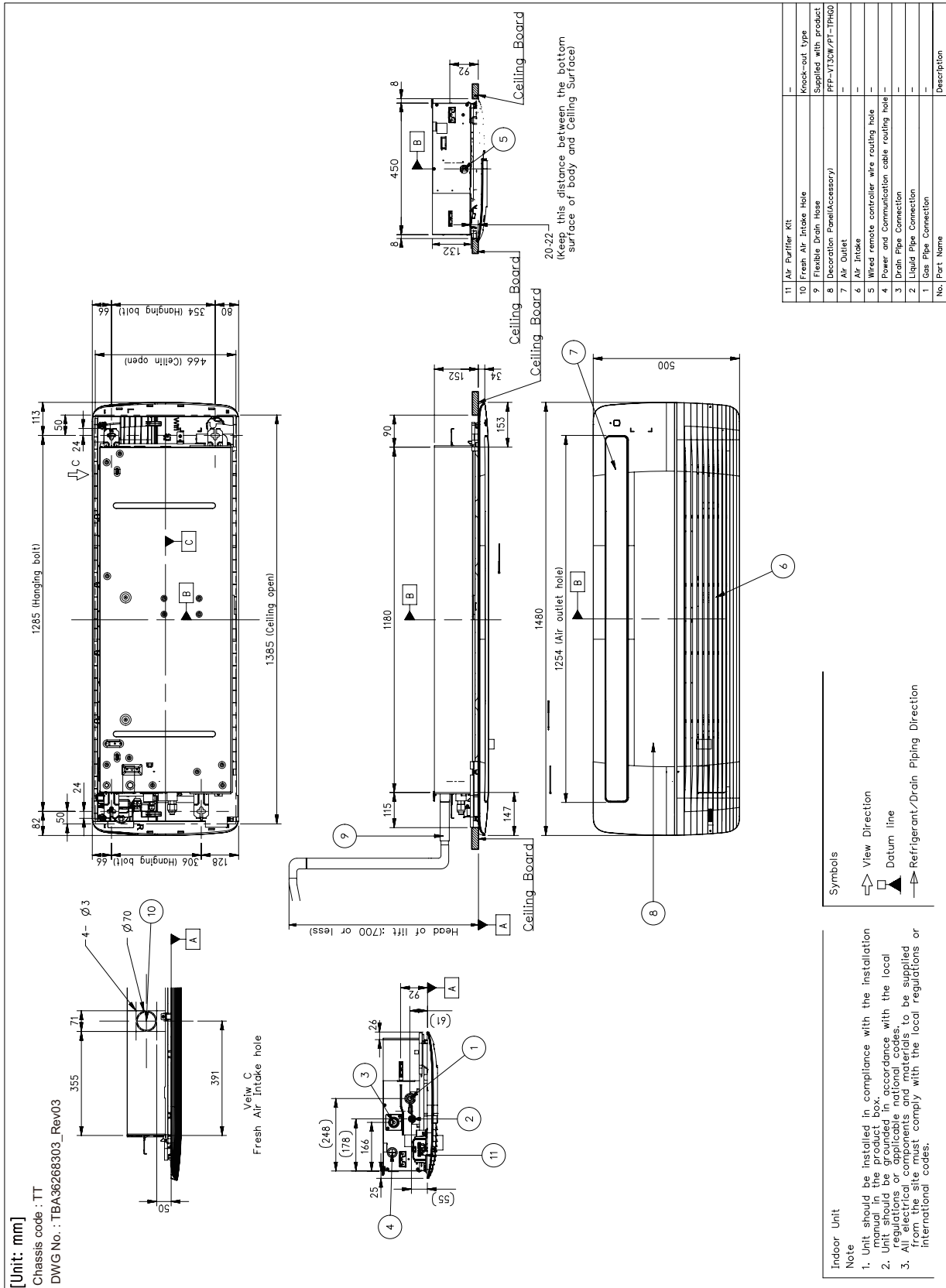
3. Dimensions

◆ Panel Name : PT-TAHG0



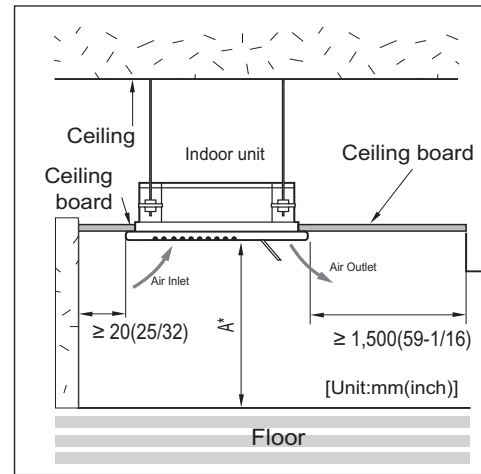
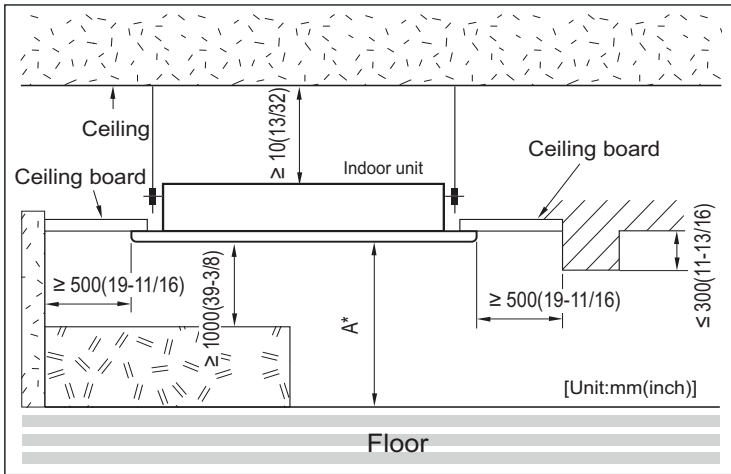
3. Dimensions

◆ Panel Name : PT-TPHG0



3. Dimensions

3.2 Installation Space



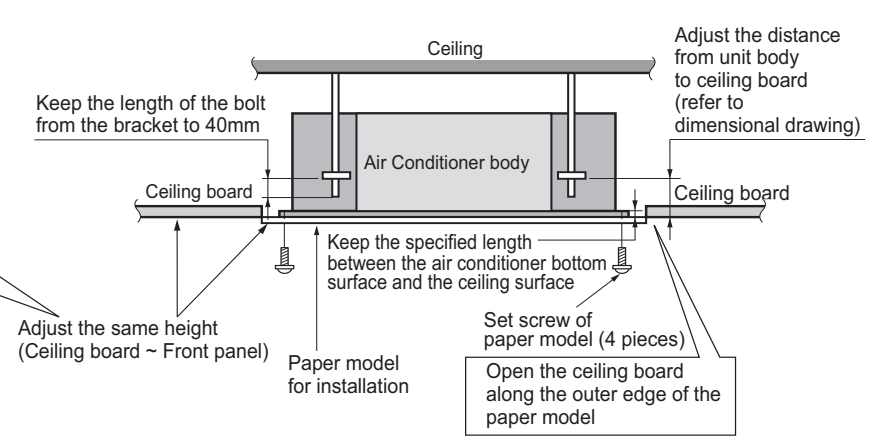
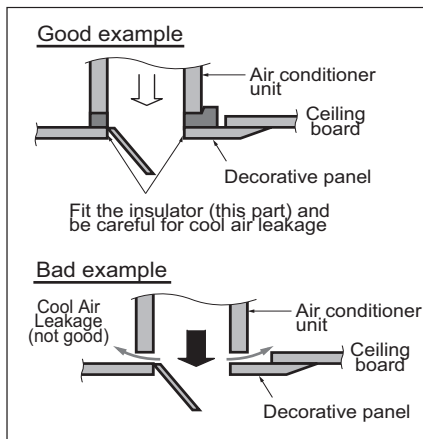
Notes

1. * : A, Installation Height from the floor

Type	Installation Height (A)		
	Min.	Standard **	Max.
Ceiling Mounted Cassette 1Way	1.8 m (5.91 ft)	2.7 m (8.86 ft)	3.3 m (9.84 ft)

** : Standard Height (Recommended)

If it exceeds the standard height, set the 'High Ceiling Mode'. For details about function setting, refer to the installation manual.

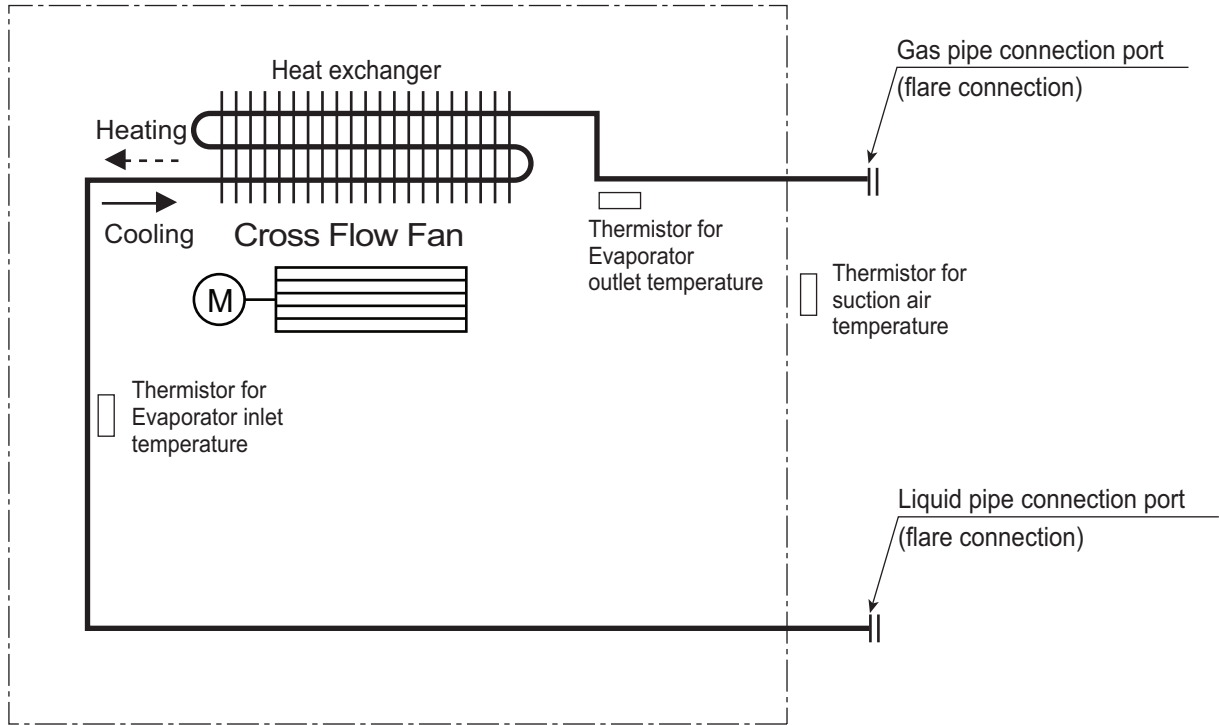


Note

- Places where products are installed should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- According to type of indoor unit, external appearance or installed structure could be different.
- According to product type, model line up, sales region..etc, applicability of each chassis could be different.
- Install certainly the decoration panel. Cool air leakage causes sweating or falling of water-drops.

4. Piping diagrams

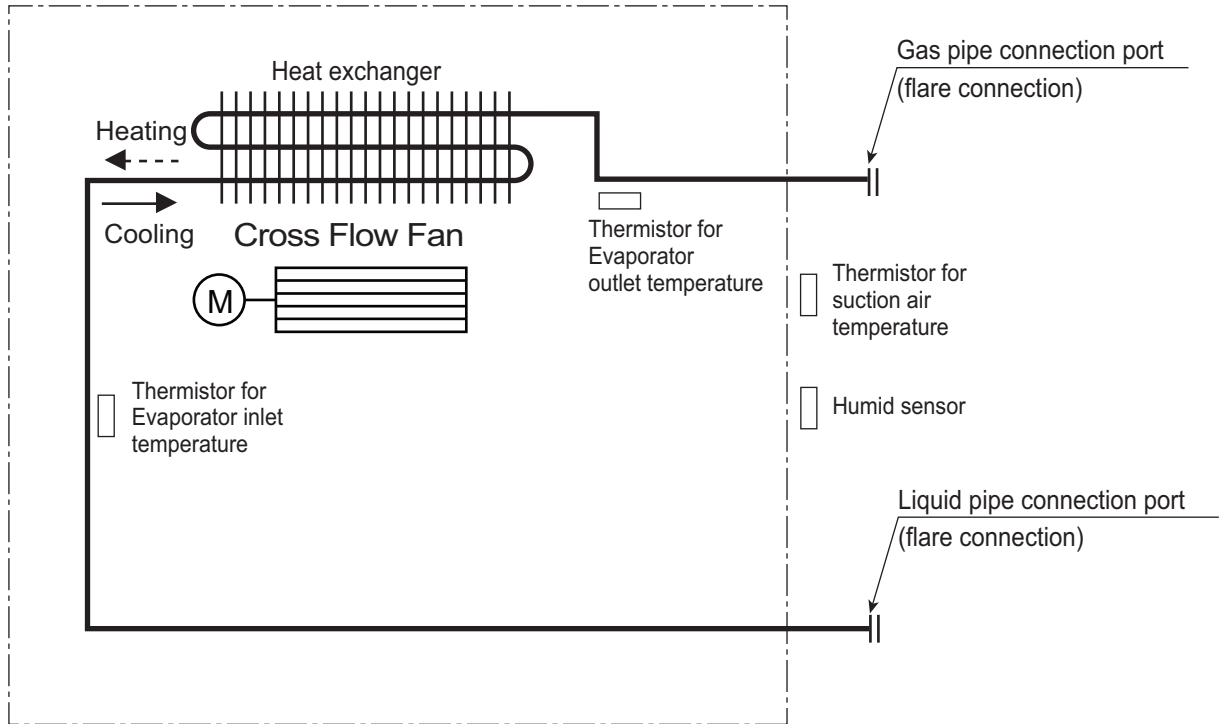
■ AMNW09/12GTUA0, AMNW09/12GTUC0



Description	PCB Connector
Thermistor for suction air temperature	CN-ROOM
Thermistor for evaporator inlet temperature	CN-PIPE/IN
Thermistor for evaporator outlet temperature	CN-PIPE/OUT

4. Piping diagrams

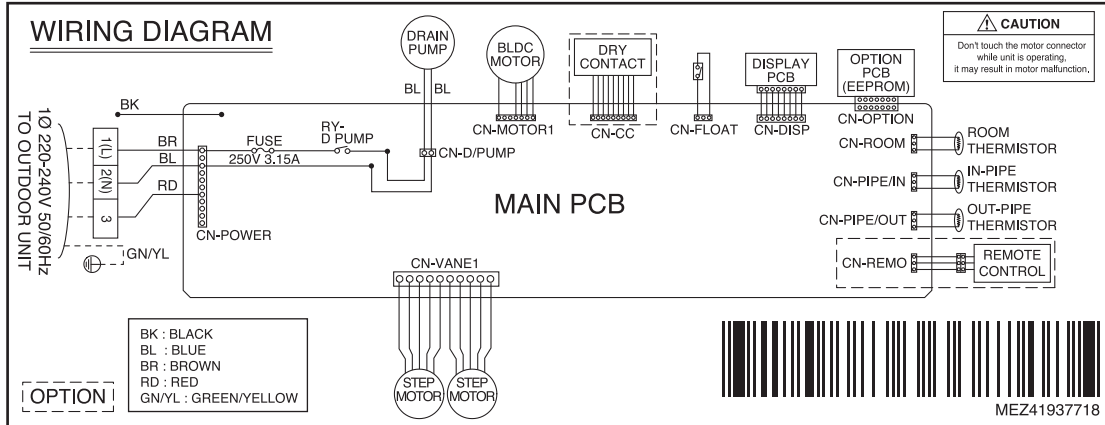
■ AMNW18GTTC0, AMNW24GTTC0



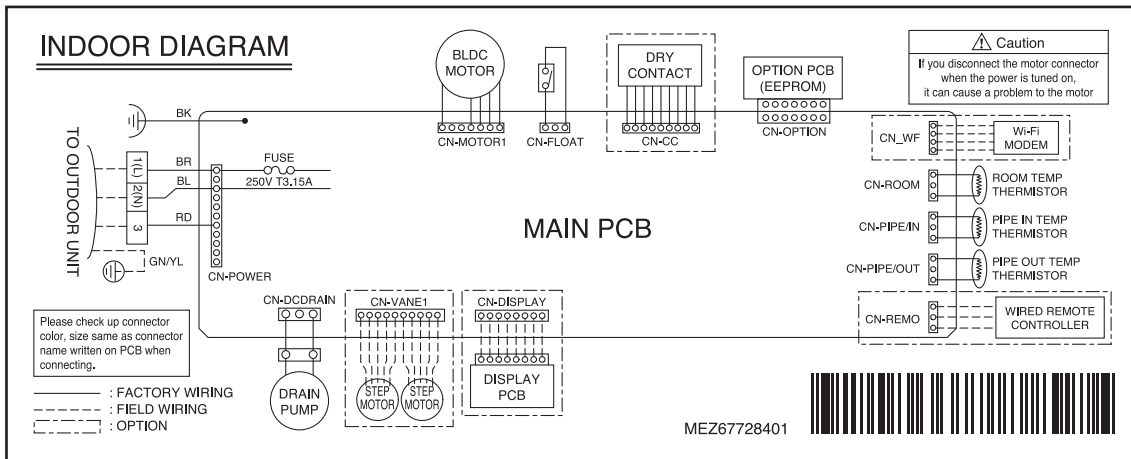
Description	PCB Connector
Thermistor for suction air temperature	CN-ROOM
Thermistor for evaporator inlet temperature	CN-PIPE/IN
Thermistor for evaporator outlet temperature	CN-PIPE/OUT

5. Wiring Diagrams

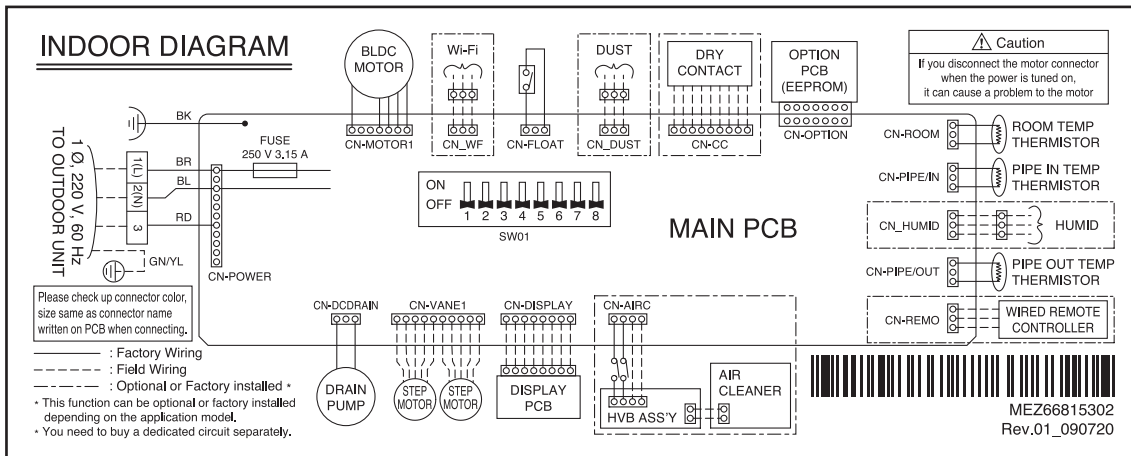
AMNW09/12GTUA0



AMNW09/12GTUC0

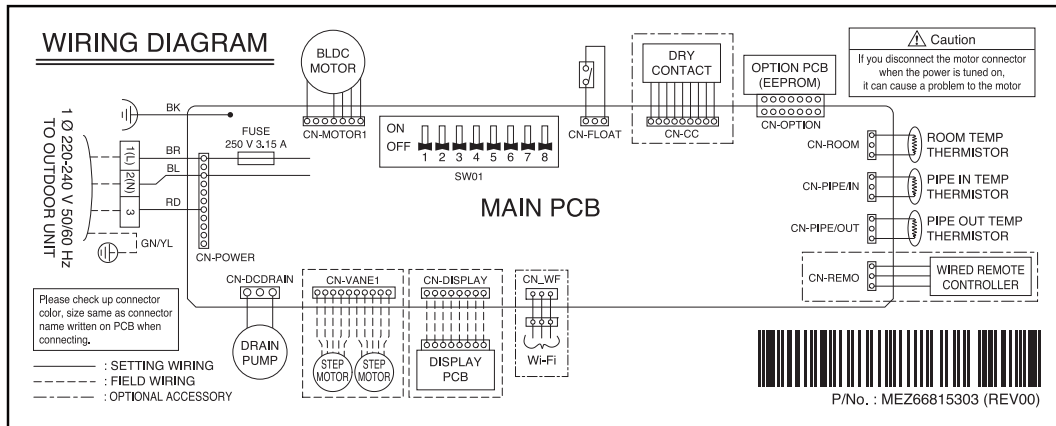


AMNW18GTTC0, AMNW24GTTC0



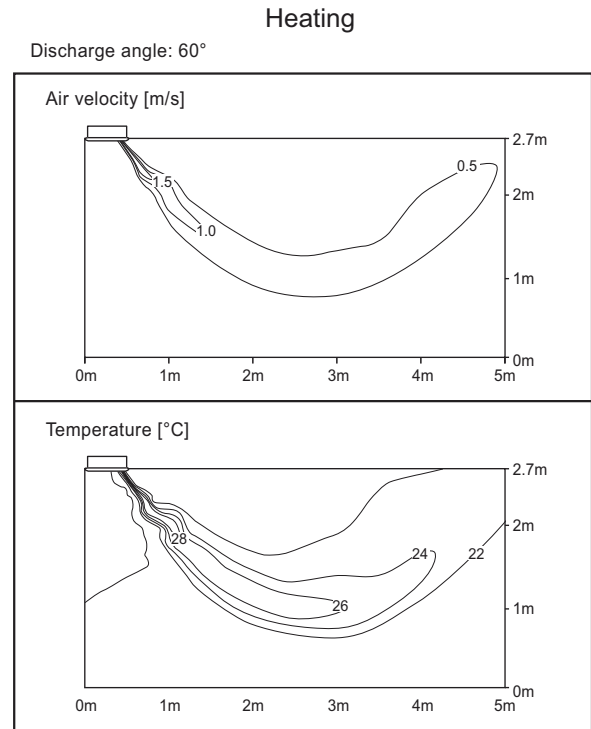
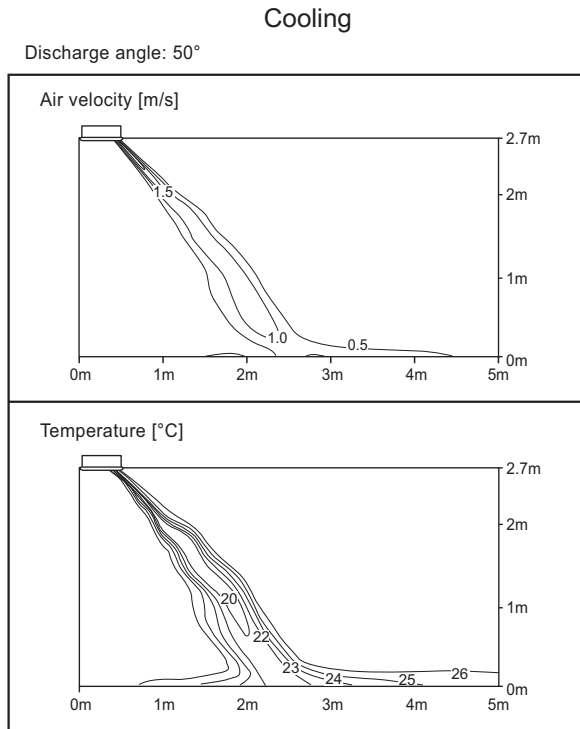
5. Wiring Diagrams

AMNW18GTTA0

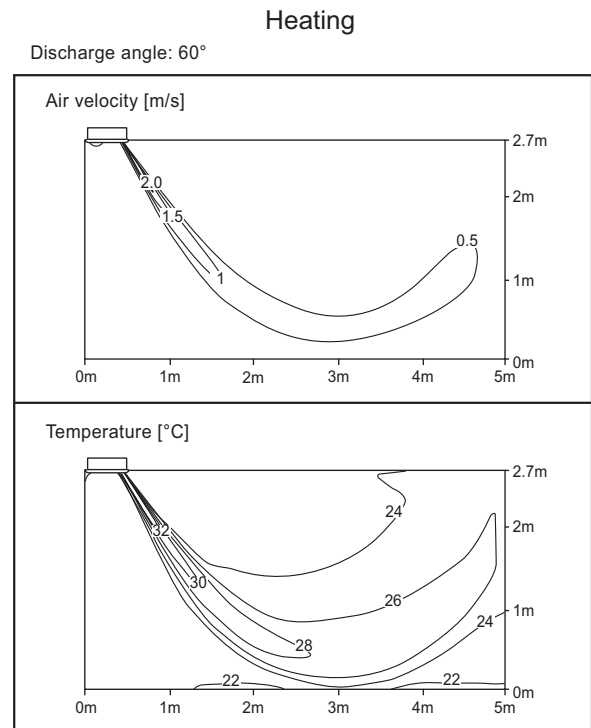
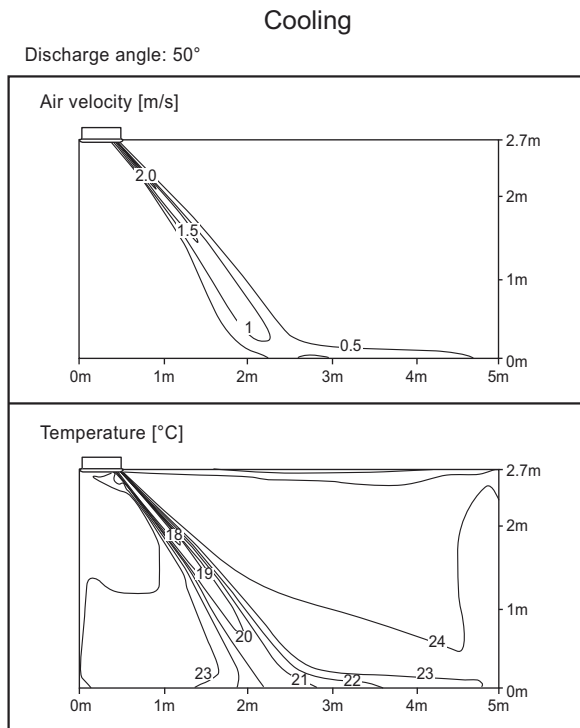


6. Air flow and temperature distributions (reference data)

■ Model : AMNW09GTUC0 / AMNW09GTUA0



■ Model : AMNW12GTUC0 / AMNW12GTUA0

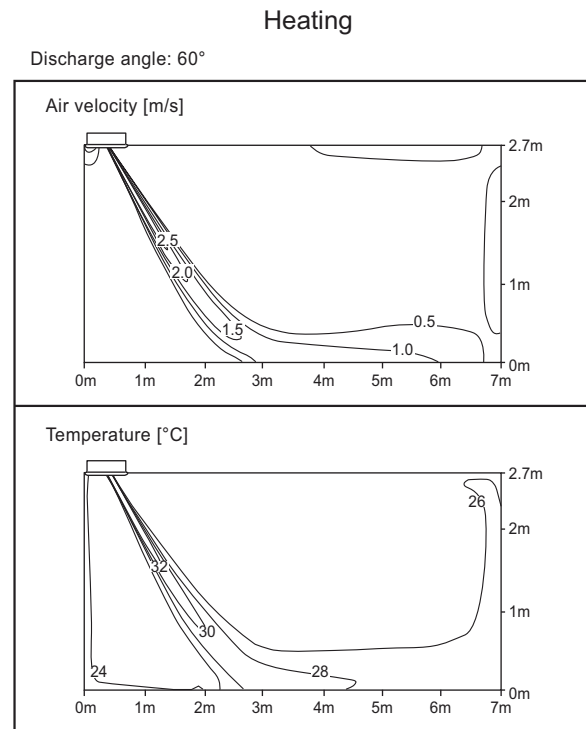
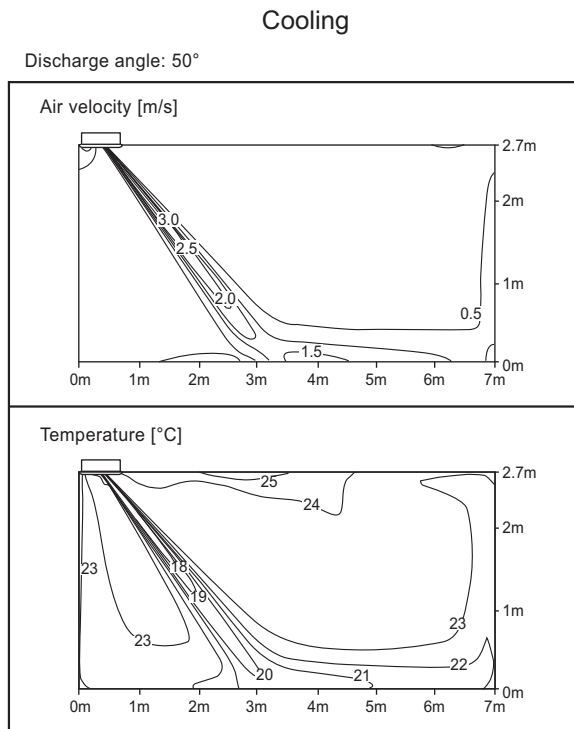


Note

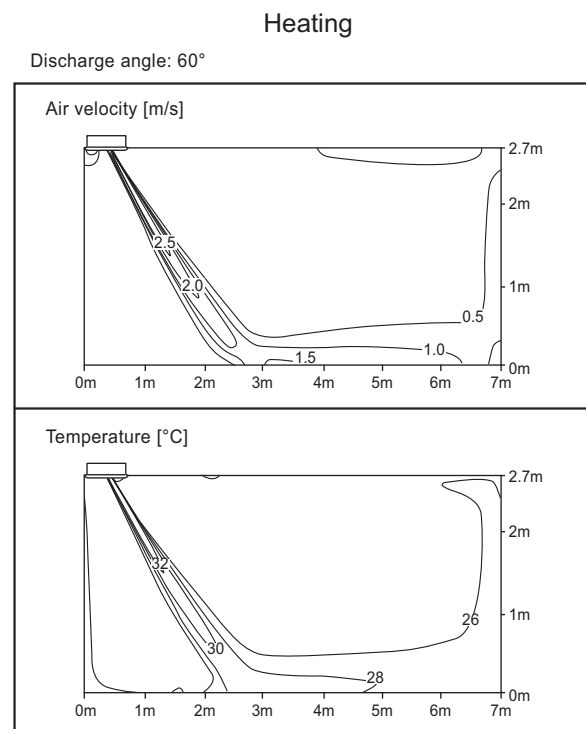
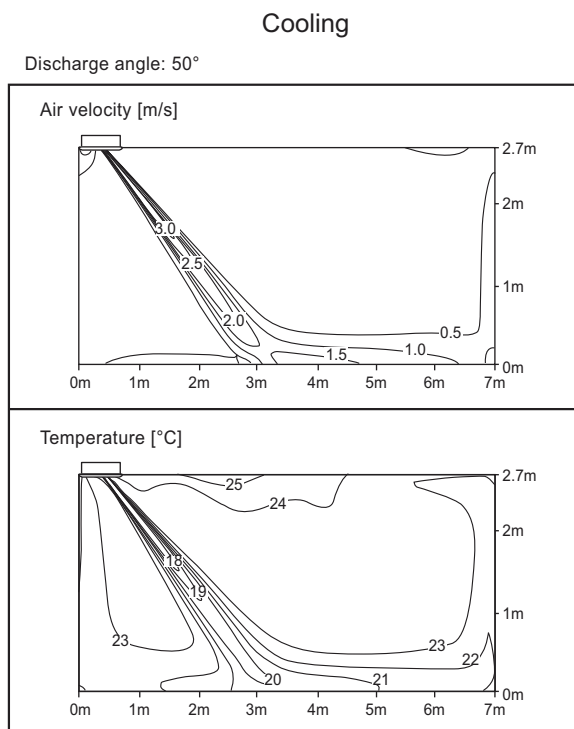
- These figures are accordance with normal certain condition and environment. (Airflow step is 'High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

6. Air flow and temperature distributions (reference data)

■ Model : AMNW18GTTC0 / AMNW18GTTA0



■ Model : AMNW24GTTC0



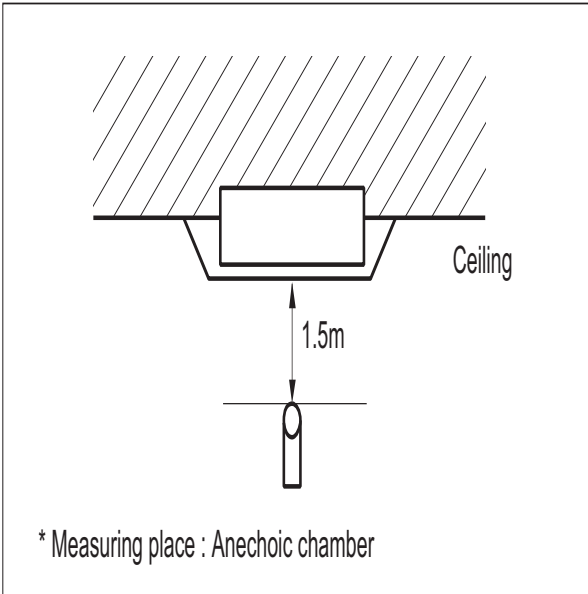
Note

- These figures are accordance with normal certain condition and environment. (Airflow step is 'High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

7. Sound levels

7.1 Sound pressure level

Overall

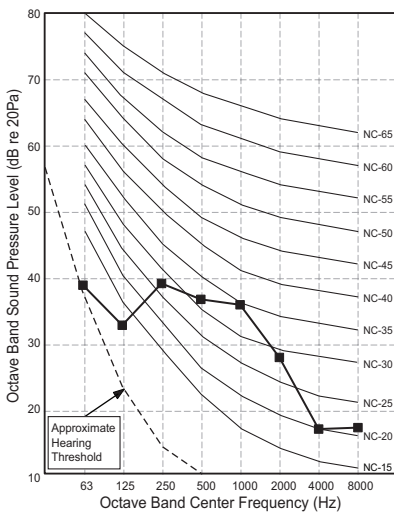


Note

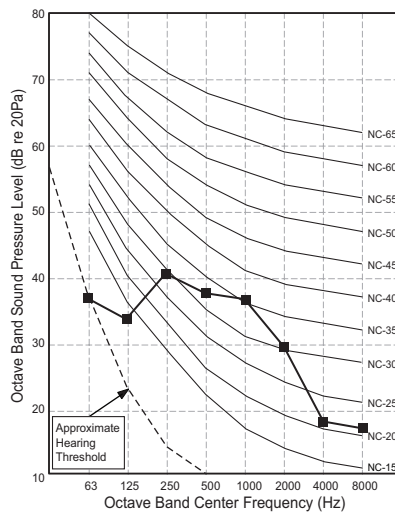
- Sound measured at 1m away from the center of the unit.
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Reference acoustic pressure 0dB=20μPa.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
- The operating conditions are assumed to be standard.

Model	Sound pressure Levels [dB(A)]		
	H	M	L
AMNW09GTUC0 / AMNW09GTUA0	36	34	32
AMNW12GTUC0 / AMNW12GTUA0	37	36	33
AMNW18GTTC0 / AMNW18GTTA0	44	42	39
AMNW24GTTC0	47	43	40

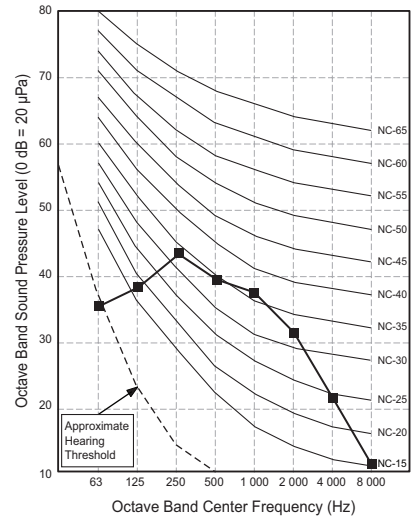
**AMNW09GTUC0
AMNW09GTUA0**



**AMNW12GTUC0
AMNW12GTUA0**

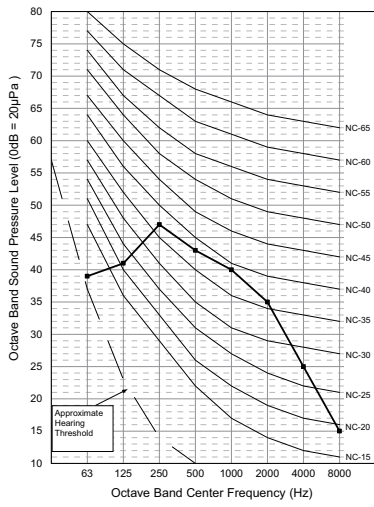


**AMNW18GTTC0
AMNW18GTTA0**



7. Sound levels

AMNW24GTTC0



7. Sound levels

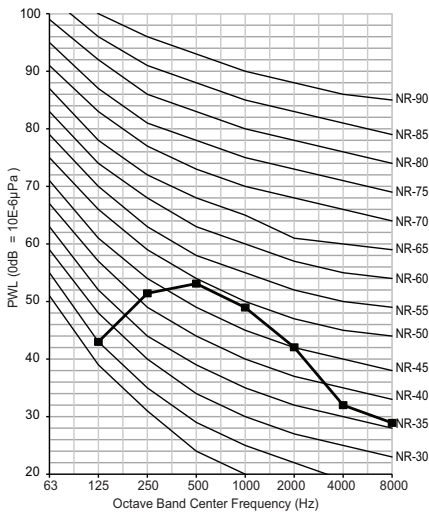
7.2 Sound power level

Note

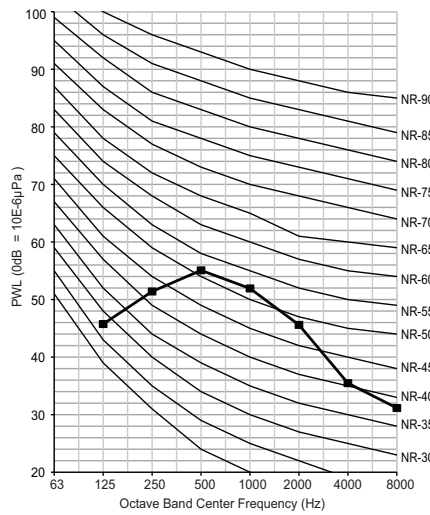
1. Reference acoustic intensity 0dB = $10E-6\mu W/m^2$
2. Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.

Model	Sound power level [dB(A)]
	H
AMNW09GTUC0 / AMNW09GTUA0	54
AMNW12GTUC0 / AMNW12GTUA0	57
AMNW18GTTC0 / AMNW18GTTA0	59
AMNW24GTTC0	61

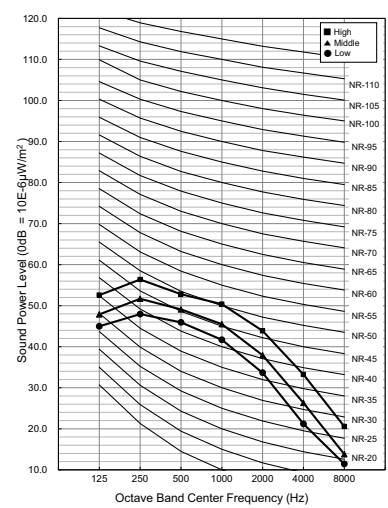
**AMNW09GTUC0
AMNW09GTUA0**



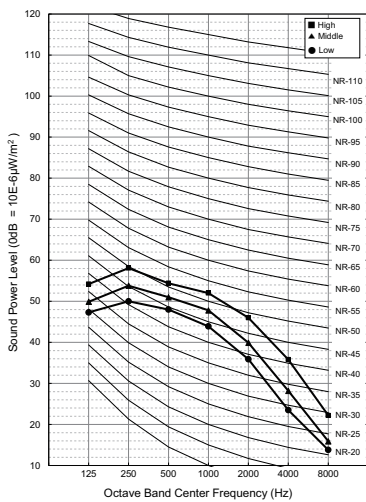
**AMNW12GTUC0
AMNW12GTUA0**



**AMNW18GTTC0
AMNW18GTTA0**



AMNW24GTTC0

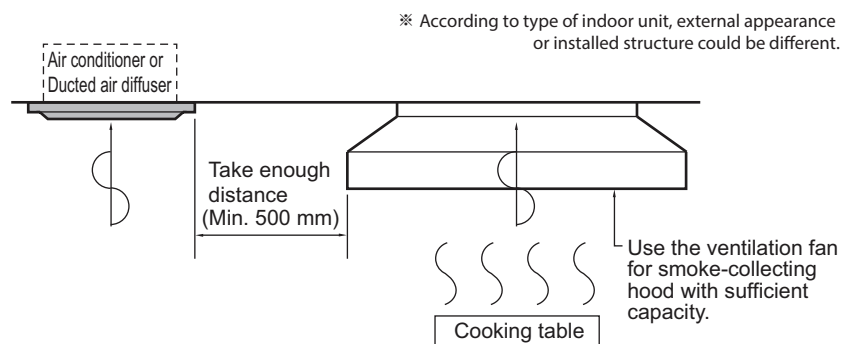


8. Installation

- Please read the instruction sheets completely before installing the product.
- When the power cord is damaged, replacement work shall be performed by authorized personnel only.
- Installation work must be performed in accordance with the national wiring standards.
- Teach the customer the operation and maintenance procedures, using the operation manual. (air filter cleaning, temperature control, etc.)

8.1 Selection of the best location

- The unit must be installed indoor area.
- Do not install the unit near the door.
- There should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- The place where the indoor unit can be connected with outdoor unit easily.
- The place where the unit is leveled.
- The place shall allow easy water drainage.
- The place where bear a load exceeding four times of the indoor unit weight.
- The mounting ceiling or wall should be solid enough to protect it from the vibration.
- The place where the unit is not affected by an electrical noise.
- The place where noise prevention is taken into consideration.
- The place where the maintenance space for product is sufficient. (The servicing inspection hole of the ceiling should be larger than the indoor unit.)
- The selection of the servicing inspection hole should be approved by the customer.
- There should not be any heat source or steam near the unit. Avoid the following installation location.
 1. Such places as restaurants and kitchen where considerable amount of oil steam and flour is generated. These may cause heat exchange efficiency reduction, or water drops, drain pump mal-function. In these cases, take the following actions;
 - Make sure that ventilation fan is enough to cover all noxious gases from this place.
 - Ensure enough distance from the cooking room to install the air conditioner in such a place where it may not suck oily steam.



2. Avoid installing air conditioner in such places where cooking oil or iron powder is generated.
3. Avoid places where inflammable gas is generated.
4. Avoid place where noxious gas is generated.
5. Avoid places near high frequency generators.

8. Installation

CAUTION

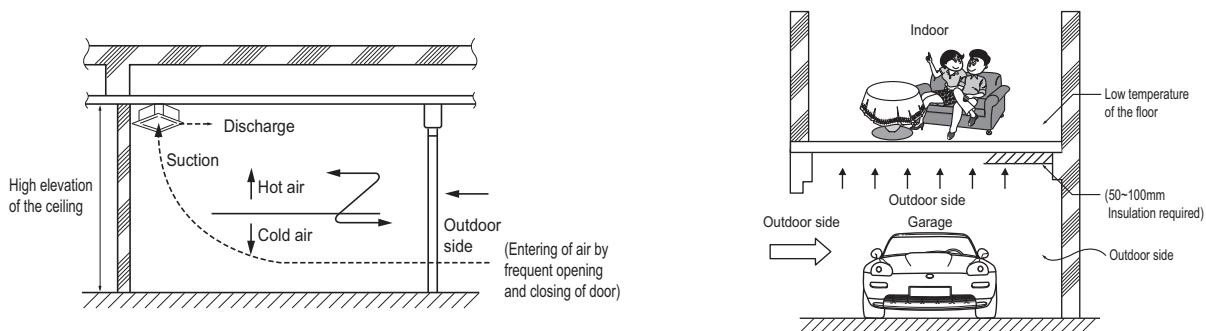
- If the temperature rise above 30°C or the humidity rise above RH 80%, the dew-protective kit should be equipped or use additional insulation to the indoor unit body.
 - "Dew Protective kit" is sold separately.
 - Use the glass wool material or polyethylene foam and it make sure to be thick of 10mm at least.
-

8. Installation

8.2 Precautions regarding cassette indoor unit installation

◆ Main points about the indoor installation

- In general commercial places and offices though the height of the ceiling is 2.7 m, the ceiling height could be over 3 m.
- In such cases because of the temperature difference with the floor the heating effect can fall down.
- Countermeasure method
 1. Air conditioner should be able to operate in high ceiling operation mode.
 2. Plan to install the circulator.
 3. The air discharge port should be made to give more airflow to the down floor directions.
 4. The gate or exit of the building is protected by dual door system to minimize inflow of outdoor air.



◆ In case the floor or surfaces is contact with the outdoor air directly

- If the floor of air conditioned room contact with the outside air, like the store room or garage, the floor temperature will be decreased and users can have a cold feeling in the feet.
- In such places where the feet comes in direct contact with floors will give a cold feeling to the foot.

⚠ CAUTION

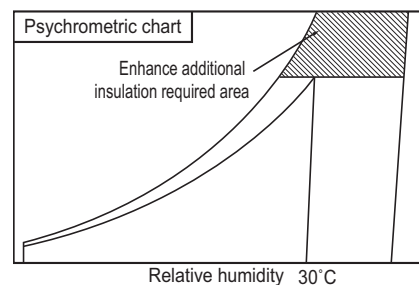
- In case there is a cold air intake,
 - » The duct surface may have some dew drops. So a insulation on the duct is a must.(Insulation material: a glass wool of thickness 25 mm will be appropriate.)

• Countermeasure method

1. Use the carpet on the floor.
(compared to the tiles the carpet over it will have a 3 degree rise in temperature)
2. Insulating the floor.
3. Floor heating.

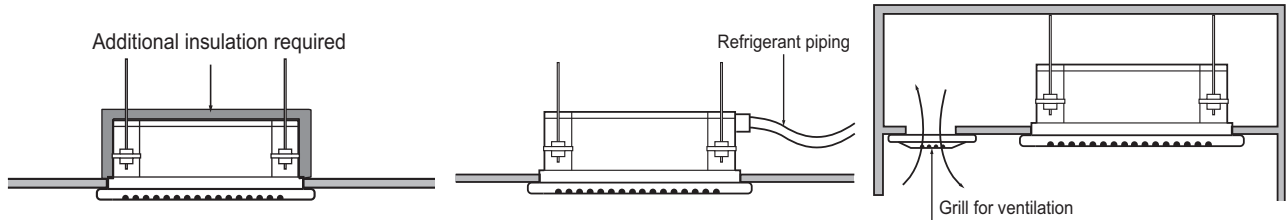
◆ In case of high temperature or humidity between the false ceiling and ceiling slab

- In case of places having the temperature and humidity of the surrounding water sources(sea, river etc.)
- In case the steam is generated between the false ceiling and the ceiling slab due to some nearby by steam source.
- In case of temperature of 30 degree and humidity above 80%, the units body as well as the piping insulation should be strengthened. Refer to the psychrometric chart.



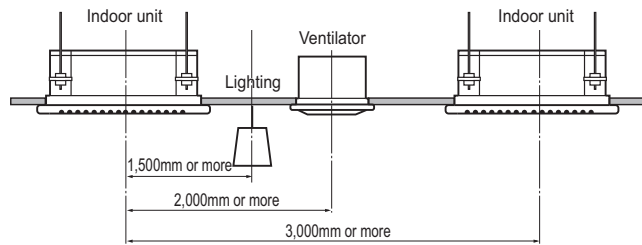
8. Installation

- Countermeasure method
 - Indoor unit: Insulate the unit body with some insulation like glass wool at least 10 mm in thickness.
 - Refrigerant piping: Increase the piping insulation thickness with thickness above 20 mm.
 - Others: Inside the ceiling near the air tight seal places. (To escape of the humidity inside false ceiling)



* According to type of indoor unit, external appearance could be different.

◆ In case of multiple indoor cassette units (recommended)



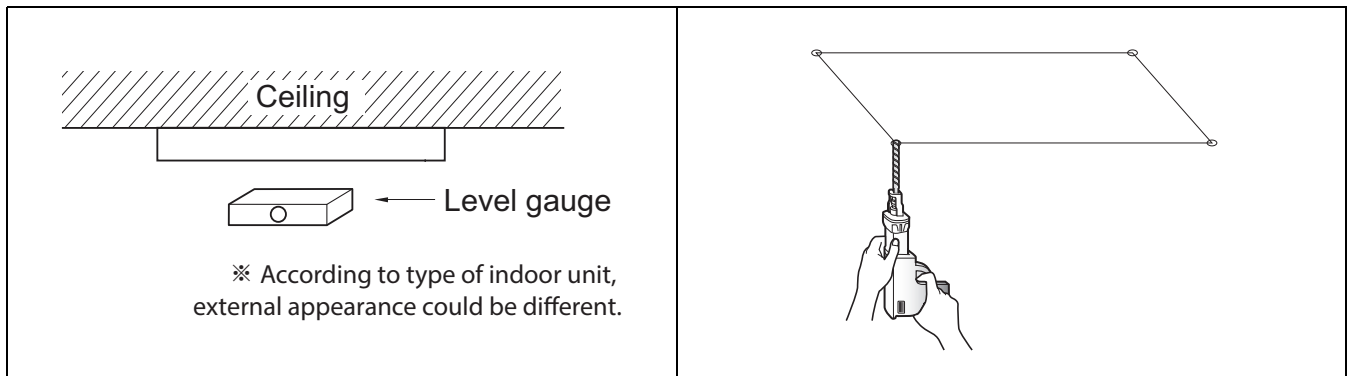
※ According to type of indoor unit, external appearance could be different.

8. Installation

8.3 Ceiling opening dimensions and hanging bolt location

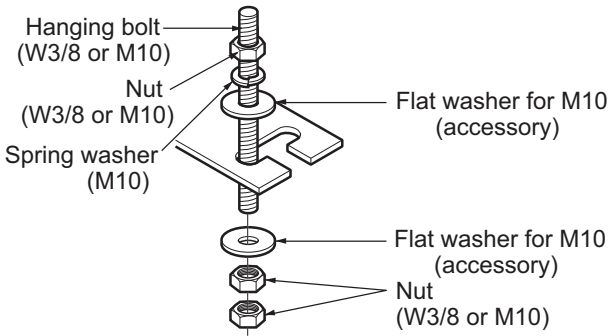
⚠ CAUTION

- During the installation, care should be taken not to damage electric wires.
- In case of using a drain pump, install the unit horizontally using a level gauge.



1. The dimensions of the paper model for installation are the same as those of the ceiling opening dimensions.
2. Select and mark the position for fixing bolts and piping hole.
3. Decide the position for fixing bolts slightly tilted to the drain direction after considering the direction of drain hose.
4. Drill the hole for anchor bolt on the wall or ceiling.
 - Insert the set anchor and washer onto the suspension bolts for locking the suspension bolts on the ceiling.
 - Mount the suspension bolts to the set anchor firmly.
 - Secure the installation plates onto the suspension bolts (adjust level roughly) using nuts, washers and spring washers.
5. In case of ducted type unit, apply a joint-canvas between the unit and duct to absorb unnecessary vibration.

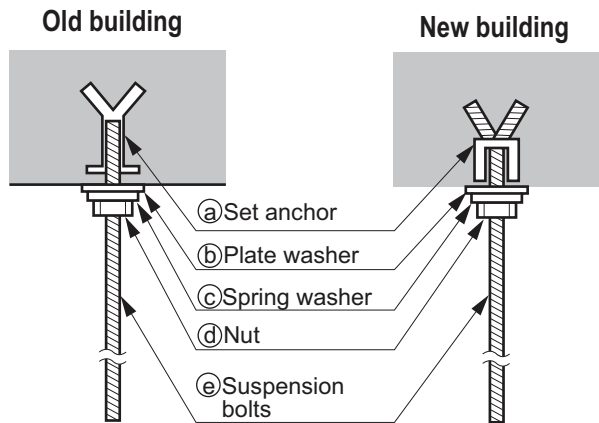
8. Installation



- The following parts are local purchasing.
 1. Hanging bolt - W 3/8 or M10
 2. Nut - W 3/8 or M10
 3. Spring washer - M10
 4. Plate washer - M10

⚠ CAUTION

- Tighten the nut and bolt to prevent the unit from falling.
- When mechanical connectors are reused indoors, sealing parts shall be renewed. (for R32)
- When flared joints are reused indoors, the flare part shall be re-fabricated. (for R32)



◆ Ceiling opening and Hanging Bolt dimension

TU Chassis	TT Chassis
<p>Unit : mm</p>	<p>Unit : mm</p>

8. Installation

8.4 Wiring Connection

8.4.1 General instructions

- All field supplied parts and materials, electric works must conform to local codes. Use copper wire only.
- Follow the "**WIRING DIAGRAM**" attached to the unit body to wire the outdoor unit, indoor units and the remote controller.
- All wiring must be performed by an authorized electrician.
- A circuit breaker capable of shutting down the power supply to the entire system must be installed.

CAUTION

After the confirmation of the above conditions, prepare the wiring as follows:

- Never fail to have separate power specially for the air conditioner.
- Provide a circuit breaker switch between power source and the unit.
- Confirm the Specification of power source.
- Confirm that electrical capacity is sufficient.
- Be sure that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
- Confirm that the cable thickness is as specified in the power sources specification.
(Particularly note the relation between cable length and thickness.)
- Do not install the leakage breaker in a place which is wet or moist.
Water or moist may cause short circuit.
- The following troubles would be caused by voltage drop-down.
 - » Vibration of a magnetic switch, damage on the contact point there of, fuse breaking, disturbance to the normal function of a overload protection device.
 - » Proper starting power is not given to the compressor.

8.4.2 Wiring connection

- Connect the wires to the terminals on the control board individually according to the outdoor unit connection.
- Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively.
- In case of the system with multiple indoor units, mark each indoor unit as unit A, unit B, etc and be sure the terminal board wiring to the outdoor unit and indoor units are properly matched. If wiring and piping between the outdoor unit and an indoor unit are mismatched, the system may cause a malfunction.

8.4.3 Clamping of cables

1. Arrange 2 power cables on the control panel.
2. First, fasten the steel clamp with a screw to the inner boss of control panel.
3. For connecting of communication (transmission) cable, put the cable(or thinner cable) on the clamp and tighten it with a plastic clamp to the other boss of the control panel. In case that communication (transmission) cable is not needed to connect, fix the other side of the clamp with a screw strongly.

8. Installation

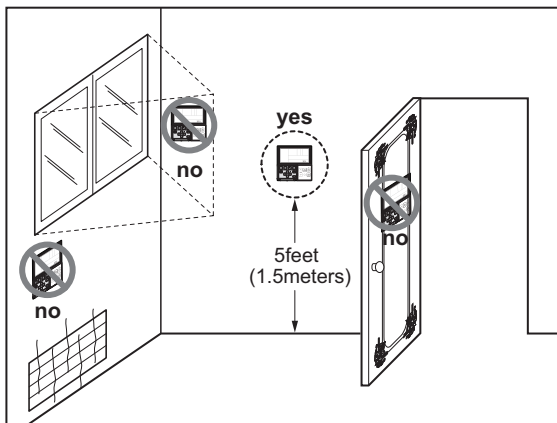
⚠ WARNING

- Make sure that the screws of the terminal are fixed tightly.
- The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could give rise to burn-out of the wires.)
- Make sure to attach the sealing material or (field supplied) to hole of wiring to prevent the infiltration of foreign particle from outside. Otherwise a short-circuit may occur inside the electric parts box.
- When clamping the wires, be sure no pressure is applied to the wire connections by using the included clamping material to make appropriate clamps. Also, when wiring, make sure the cover on the electric parts box fits snugly by arranging the wires neatly and attaching the electric parts box cover firmly. When attaching the electric parts box cover, make sure no wires get caught in the edges. Pass wiring through the wiring through holes to prevent damage to them.
- Make sure the remote controller wiring, the wiring between the units, and other electrical wiring do not pass through the same locations outside of the unit, separating them properly, otherwise electrical noise (external static) could cause product malfunction.

8.4.4 Wired Remote Controller Installation (Optional)

Since the room temperature sensor is in the remote controller, the remote controller box should be installed in a place away from direct sunlight, high humidity and direct supply of cold air to maintain proper space temperature.

Install the remote controller about 5ft(1.5m) above the floor in an area with good air circulation at an average temperature.



• Do not install the remote controller where it can be affected by :

- Drafts, or dead spots behind doors and in corners.
- Hot or cold air from ducts.
- Radiant heat from sun or appliances.
- Concealed pipes and chimneys.
- Uncontrolled areas such as an outside wall behind the remote controller.
- This remote controller is equipped with a seven segment LED. display. For proper display of the remote controller LED's, the remote controller should be installed properly. (The standard height is 1.2~1.5 m from floor level.)

8. Installation

8.5 Installation of Decoration Panel

- The decoration panel has its installation direction.
 - Before installing the decoration panel, always remove the paper template.
-

1. Open the air outlet vane, and extract side covers.
 2. Remove the air inlet panel from the decoration panel.
 3. Hook decoration panel to indoor unit, using hooks attached at the backside of both side of decoration panel.
 4. Arrange wires not to get caught between decoration panel and indoor unit.
 5. Screw the fixing screws. (TU Chassis : 6 screws / TT Chassis : 7 screws)
 6. Connect the vane motor connector, display connector.
 7. Install the air inlet panel (including the air filter) and side covers.
-

Notice

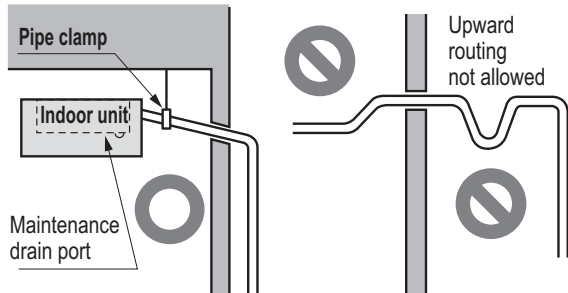
For more details, refer to the product or panel installation manual.

8. Installation

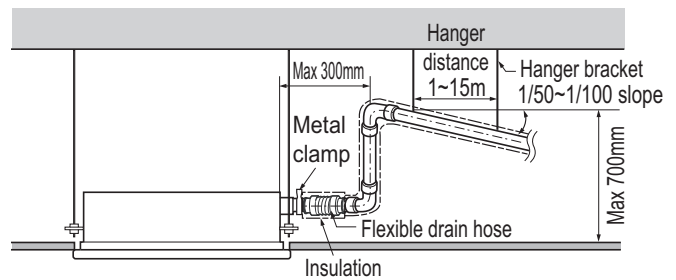
8.6 Indoor Unit Drain Piping

8.6.1 Drain piping of indoor unit with drain pump

- Drain piping must have down-slope (1/50 to 1/100). Be sure not to provide up-and-down slope to prevent reversal flow.
- During drain piping connection, be careful not to exert force on the drain port on the indoor unit.
- The outside diameter of the drain connection on the indoor unit is 32 mm (1-1/4 inch).
 - Piping material: Use the Polyvinyl chloride pipe, 25 mm (1 inch) pipe fittings.

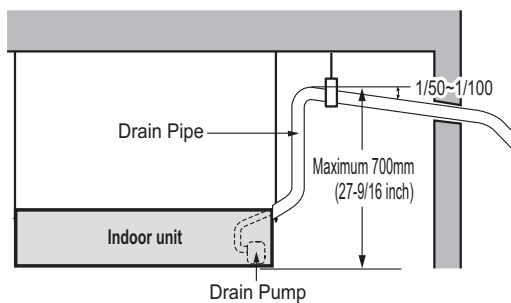


※ According to type of indoor unit, external appearance could be different.

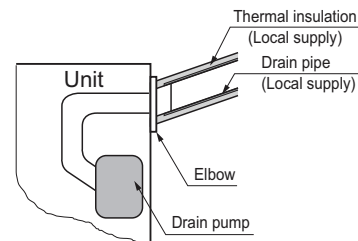


※ According to type of indoor unit, external appearance could be different.

- Possible drain head height is upto 700 mm (27-6/19 inch). So the drain head should be installed below 700 mm (27-6/19 inch).
- Be sure to install heat insulation on the drain piping.
 - Heat insulation material: Polyethylene foam with thickness more than 8 mm (5/16 inch).



※ According to type of indoor unit, external appearance could be different.

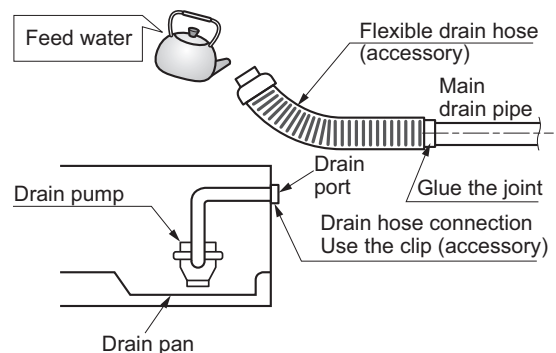


8.6.2 Method of Drainage test

◆ Drainage test of indoor unit with drain pump

Use the following procedure to test the drain pump operation.

1. Connect the main drain pipe to the exterior and leave it provisionally until the test comes to an end.
2. Feed water to the flexible drain hose and check the piping for leakage.
3. Be sure to check the drain pump for normal operating and noise when electrical wiring is complete.
4. When the test is complete, connect the flexible drain hose to the drain port on the indoor unit.

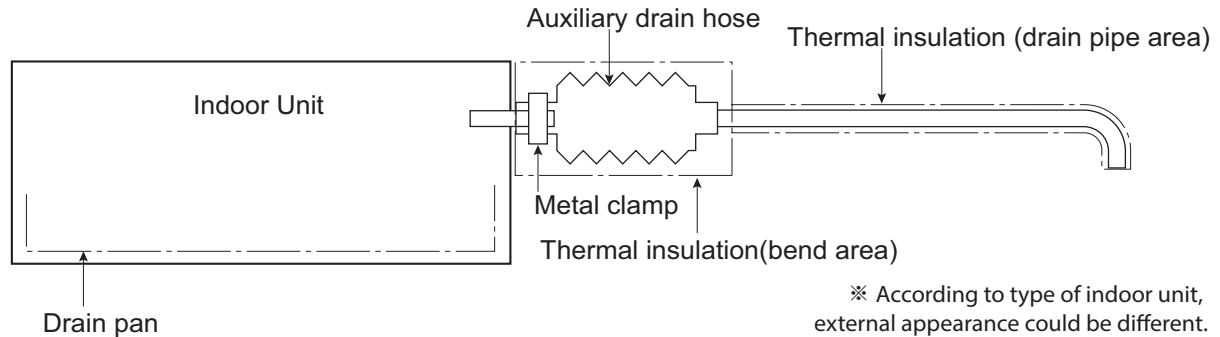


※ According to type of indoor unit, external appearance could be different.

8. Installation

8.6.3 Connection of an auxiliary(flexible) drain hose

- To connect drain pipe to the drain socket on the indoor unit, an auxiliary flexible drain hose should be used. auxiliary flexible drain hose allows that the drain pipe can be connected to the socket without breaking by excessive strain.

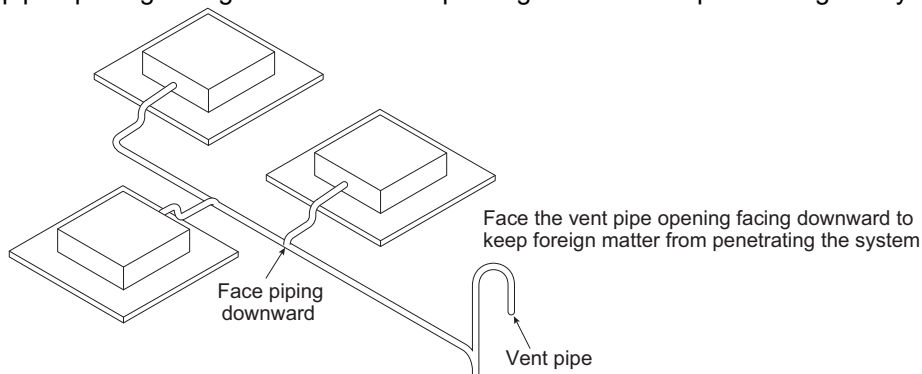


⚠ CAUTION

- The supplied flexible drain hose should not be curved, neither screwed. The curved or screwed hose may cause a leakage of water.
- It is need to insulate the auxiliary drain hose with thermal insulation material.

8.6.4 Ground drain piping

- It is standard work practice to make connections to the main pipe from above. The pipe down from the combination should be as large as possible.
- The pipe work should be kept as short as possible and the number of indoor units per group kept to a minimum.
- Face the vent pipe opening facing downward to keep foreign matter from penetrating the system.



MULTI

Indoor Unit

Ceiling Mounted Cassette 4-way

- 1.List of functions**
- 2.Specification**
- 3.Dimensions**
- 4.Piping Diagrams**
- 5.Wiring Diagrams**
- 6.Air flow and temperature distributions (reference data)**
- 7.Sound levels**
- 8.Installation**

1. List of functions

◆ List of function

Category	Functions	AMNW09GTRA1 AMNW12GTRA1 AMNW18GTQA1
Air Flow	Air Supply Outlet	4
	Airflow Direction Control (left & right)	X
	Airflow Direction Control (up & down)	Auto
	Auto Swing (left & right)	X
	Auto Swing (up & down)	O
	Airflow Steps (fan/cool/heat)	4 / 5 / 4
	Fan Speed Auto*	X
	Power Cool/Heat	O / X
	Swirl Wind*	O
	Refresh Mode**	X
	Smart Mode**	X
	Indirect Wind*	O
	Direct Wind*	O
	Dry Operation	O
Air Purification	Air Purify	X
	Ionizer	X
	UV-C	X
	Pre-Filter	O
	PM1.0 Filter	X
Reliability	Hot Start	O
	Self Diagnosis	O
Convenience	Auto Mode	O
	Auto Dry Operation	O
	Auto Restart	O
	Child Lock*	O
	Forced Operation	O
	Group Control*	O
	Sleep Timer	O
	Turn On/Off Reservation	O
	Schedule*	O
	Two Thermistor Control*	O
External On/Off	O	
Installation	Drain Pump	O
	E.S.P. Control*	X
	High Ceiling Operation*	O
Special Functions	Wi-Fi	Accessory
	Auto Elevation Grille	X
	Human Detection Function**	X
	Floor Detection Function**	X

Note

- O : Applied, X : Not Applied, - : Unconfirmed or irrelevant
Embedded : A kit is provided by default for using this function when the product is manufactured.
Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field. Accessory line-ups varies by region, so check your local catalogue or local sales material.
- Some functions can be limited by remote controller.
- In case of cassette type indoor units, Air Purification Kit and Auto Elevation Grille functions are not applicable at the same time.
- 'Auto Mode' varies depending on the outdoor unit type.
 - Auto Change Over(Single Heat Pump Outdoor Unit)
 - Auto Mode Select(Multi Heat Pump Outdoor Unit)
 - Auto Intensity Control(Cooling Only Outdoor Unit)
- * : These functions need to connect the wired remote controller.
- ** : This functions need to connect to the Standard III wired remote controller.

1. List of functions

◆ Accessory Compatibility List

Category		Product	Remark	AMNW09GTRA1 AMNW12GTRA1 AMNW18GTQA1
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O (Embedded)
		PWLSSB21H	Heat Pump	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	Standard	PREMTB001	Standard II (White)	O
		PREMTBB01	Standard II (Black)	O
		PREMTB100**	Standard III (White)	X
Premium	PREMTA000(A/B)	Premium	O	
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	For 3rd Party Thermostat	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O
		PDRYCB500	For Modbus	X
Gateway	IDU PI485	PHNFP14A0	Without case	X
		PSNFP14A0	With case	X
ETC	Remote temperature sensor	PQRSTA0	-	O
	Zone controller	ABZCA	-	X
	CTI (Communication transfer interface)	PKFC0	-	X
	CO ₂ Sensor	PES-C0RV0	For ERV, ERV DX Indoor units	X
	Group control wire	PZCWRCG3	0.25m	O
	2-Remo Control Wire	PZCWRC2	0.25m	X
	Extension Wire	PZCWRC1	10m	X
Wi-Fi Controller*	PWFMDD200	-	O	

Note

1. O: Possible, X: Impossible, -: Not applicable, Embedded: Included with product.
2. *: Some advanced functions controlled by individual controller cannot be operated.
3. **: It could not be operated some functions.
4. If you need more detail, please refer to the **BECON** PDB or the manual of product. (<http://partner.lge.com/global> : Home> Doc.Library> Product > Control(BECON))

2. Specifications

Model Name				AMNW09GTRA1	AMNW12GTRA1	
Power Supply		V, Ø, Hz		220-240, 1, 50	220-240, 1, 50	
Power Input		Min / Nom / Max		220, 1, 60	220, 1, 60	
Running Current		W		10 / 20 / 20	10 / 20 / 20	
Casing Color		A		0.4	0.4	
Dimensions		-		-	-	
Dimensions	Body	W x H x D	mm	570 × 214 × 570	570 × 214 × 570	
		W x H x D	inch	22-7/16 x 8-7/16 x 22-7/16	22-7/16 x 8-7/16 x 22-7/16	
Net Weight		Body		kg (lbs)	13.0 (28.7)	
Heat Exchanger		(Row x Column x Fins per inch) x No.		-	(2 x 8 x 18) x 1	
		Face Area		m ² (ft ²)	0.22 (2.40)	
Fan	Type		-		Turbo Fan	
	Air Flow Rate		H / M / L		m ³ /min	8.5 / 7.0 / 6.0
		H / M / L		ft ³ /min		
				300 / 265 / 230		
Fan Motor		Type		-		
		Output		W x No.		
				43 x 1		
Sound Pressure Level		H / M / L		dB(A)		
Sound Power Level		Max.		dB(A)		
				48		
				51		
Piping Connections	Liquid		mm(inch)		Ø 6.35 (1/4)	
	Gas		mm(inch)		Ø 9.52 (3/8)	
	Drain (O.D. / I.D.)		mm		Ø 32.0 / 25.0	
Safety Devices		-		Fuse		
		-		Thermal Protector for Fan Motor		
Power and Communication Cable (included Earth)		No. x mm ² (AWG)		4C x 0.75 (18)		
				4C x 0.75 (18)		
Decoration Panel	Model Name		-		PT-UQC	
	Casing Color		-		Morning Fog	
	Dimensions	W x H x D		mm		700 × 22 × 700
		W x H x D		inch		27-9/16 x 7/8 x 27-9/16
Net weight				kg (lbs)		
				3.0 (6.6)		

Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).
- Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.
 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

2. Specifications

Model Name			AMNW18GTQA1	
Power Supply		V, Ø, Hz	220-240, 1, 50	
Power Input		Min / Nom / Max	220, 1, 60	
Running Current		W	10 / 30 / 40	
Casing Color		A	0.4	
Casing Color		-	-	
Dimensions	Body	W x H x D	mm	570 × 256 × 570
		W x H x D	inch	22-7/16 x 10-3/32 x 22-7/16
Net Weight	Body	kg (lbs)	14.3 (31.5)	
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 10 x 18) x 1
	Face Area		m ² (ft ²)	0.28 (3.00)
Fan	Type		-	Turbo Fan
	Air Flow Rate	H / M / L	m ³ /min	13.0 / 12.0 / 11.0
		H / M / L	ft ³ /min	459 / 424 / 353
Fan Motor	Type		-	BLDC
	Output		W x No.	43 x 1
Sound Pressure Level		H / M / L	dB(A)	41 / 39 / 36
Sound Power Level		Max.	dB(A)	55
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)*
	Gas		mm(inch)	Ø 12.7 (1/2)*
	Drain (O.D. / I.D.)		mm	Ø 32.0 / 25.0
Safety Devices			-	Fuse
Safety Devices			-	Thermal Protector for Fan Motor
Power and Communication Cable (included Earth)			No. x mm ² (AWG)	4C x 0.75 (18)
Decoration Panel	Model Name		-	PT-UQC
	Casing Color		-	Morning Fog
	Dimensions	W x H x D	mm	700 × 22 × 700
		W x H x D	inch	27-9/16 x 7/8 x 27-9/16
Net weight		kg (lbs)	3.0 (6.6)	

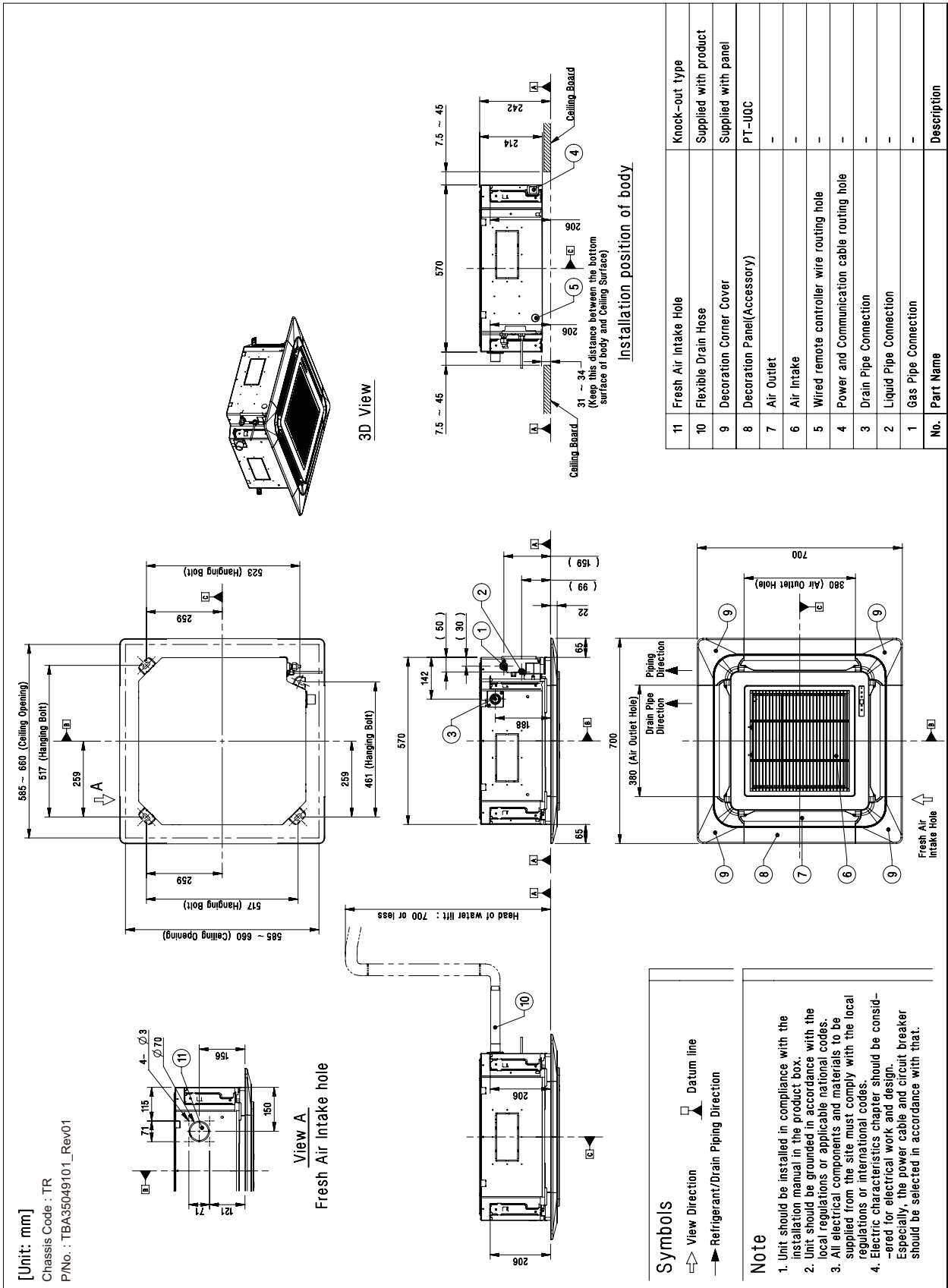
Note

- Due to our policy of innovation some specifications may be changed without notification.
 - Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
 - Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).
 - Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.
 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
- * : For combined with Multi F/FDX system, socket provided with indoor units should be connected.

3. Dimensions

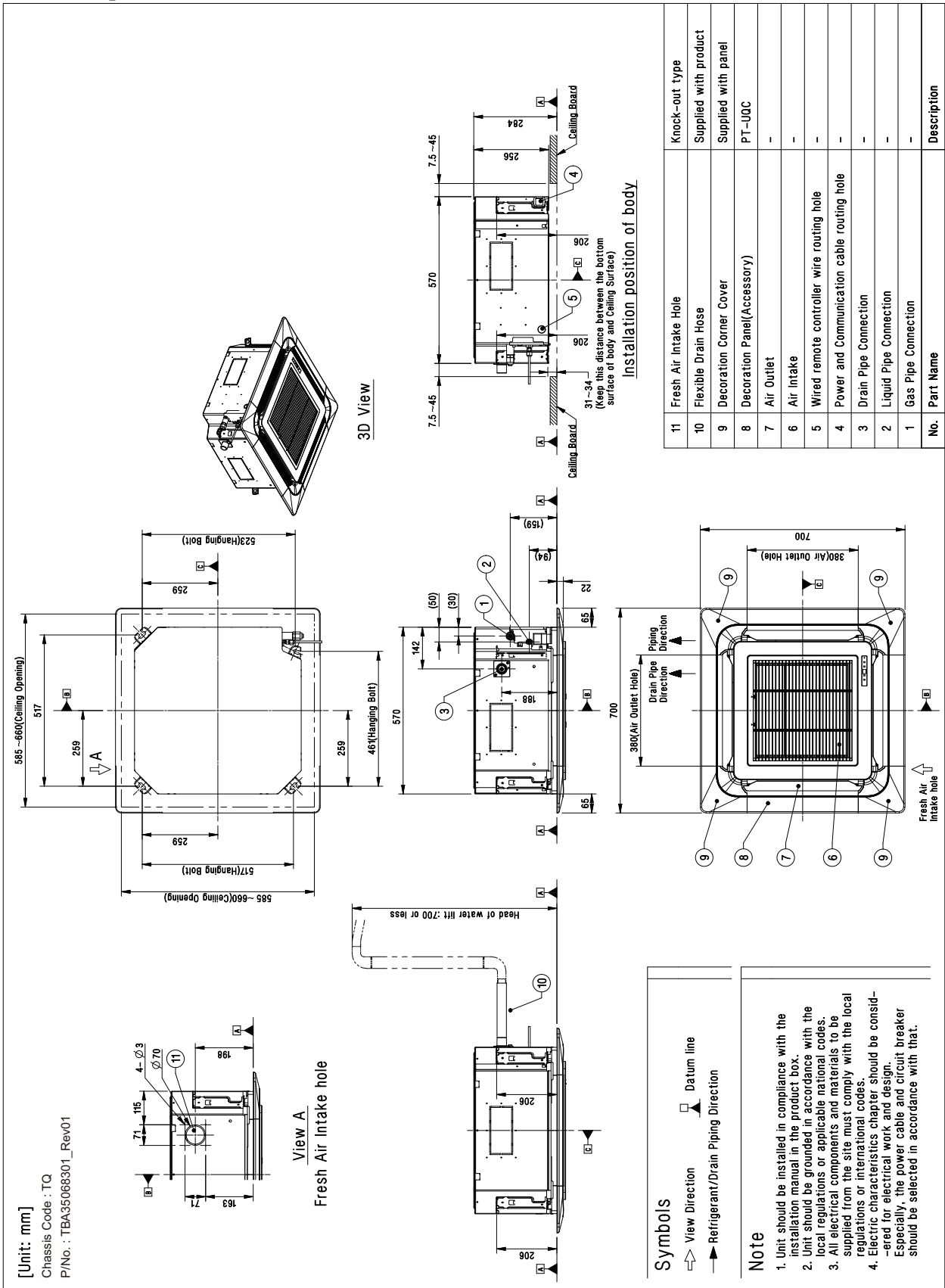
3.1 Dimensional Drawings

[TR Chassis] AMNW09GTRA1 / AMNW12GTRA1



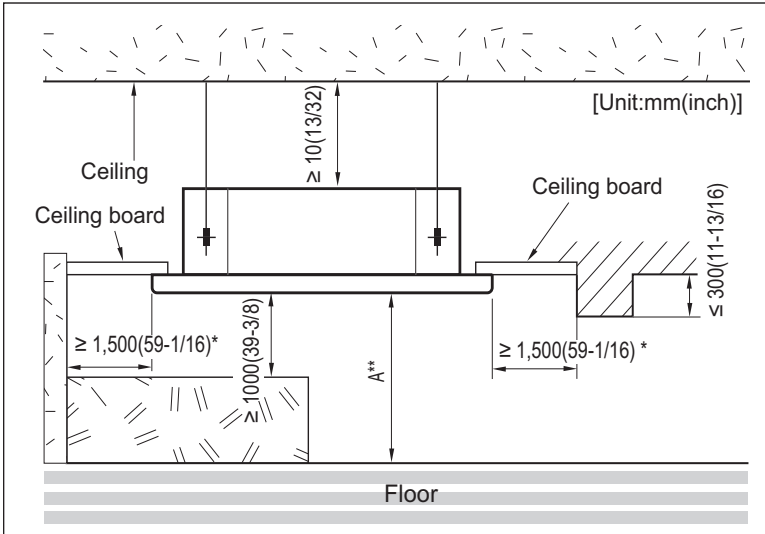
3. Dimensions

[TQ Chassis] AMNW18GTQA1



3. Dimensions

3.2 Installation Space

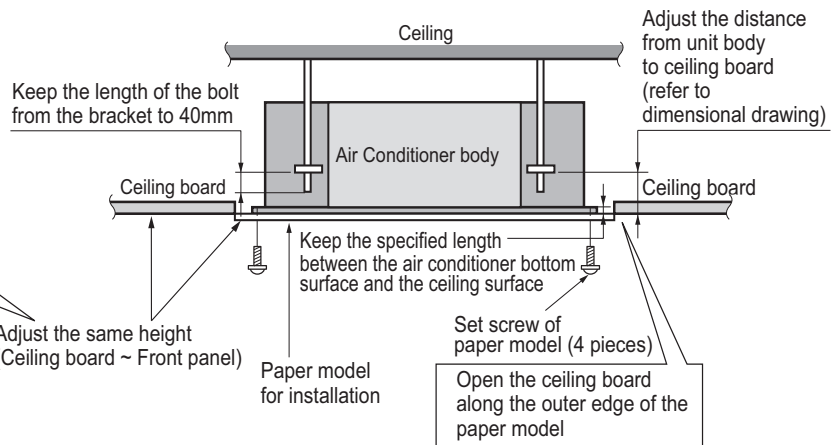
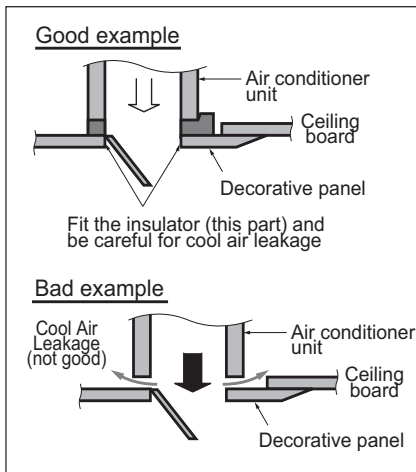


Notes

- * : Minimum Installation Space to Air flow direction
A separation distance of at least 1,500 mm is required throughout the airflow direction.
- ** : A, Installation Height from the floor

Capacity Class	Installation Height (A)		
	Min.	Standard ***	Max.
< 10 kW	2.0 m (6.56 ft)	2.7 m (8.86 ft)	3.6 m (11.81 ft)
≥ 10 kW	2.5 m (8.20 ft)	3.2 m (10.50 ft)	4.2 m (13.78 ft)

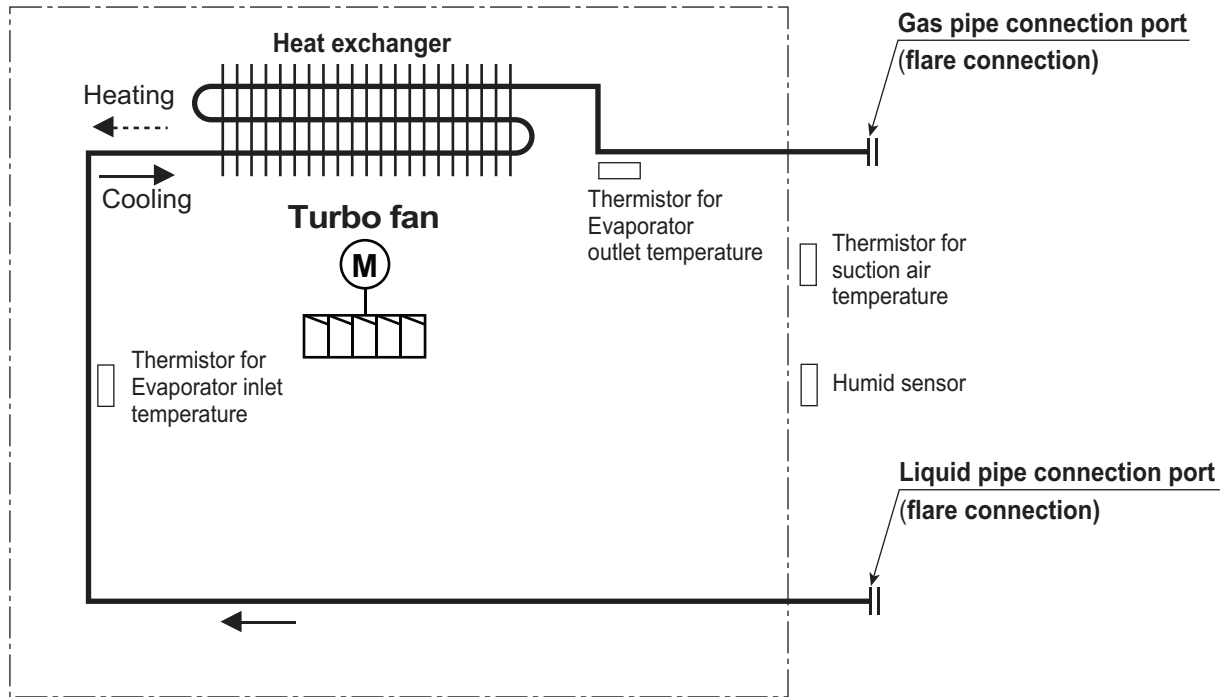
*** : Standard Height (Recommended)
If it exceeds the standard height, set the 'High Ceiling Mode'.
For details about function setting, refer to the installation manual.



Note

- Places where products are installed should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- According to type of indoor unit, external appearance or installed structure could be different.
- According to product type, model line up, sales region..etc, applicability of each chassis could be different.
- Install certainly the decoration panel. Cool air leakage causes sweating or falling of water-drops.

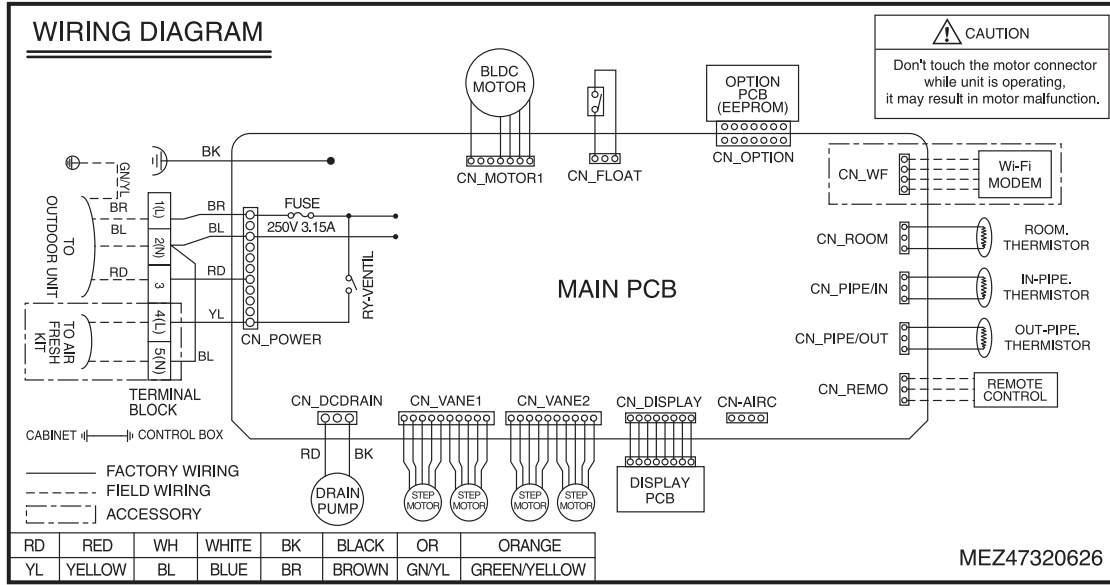
4. Piping diagrams



Description	PCB Connector
Thermistor for suction air temperature	CN-ROOM
Thermistor for evaporator inlet temperature	CN-PIPE / IN
Thermistor for evaporator outlet temperature	CN-PIPE / OUT

5. Wiring Diagrams

Models: AMNW-TR / AMNW-TQ

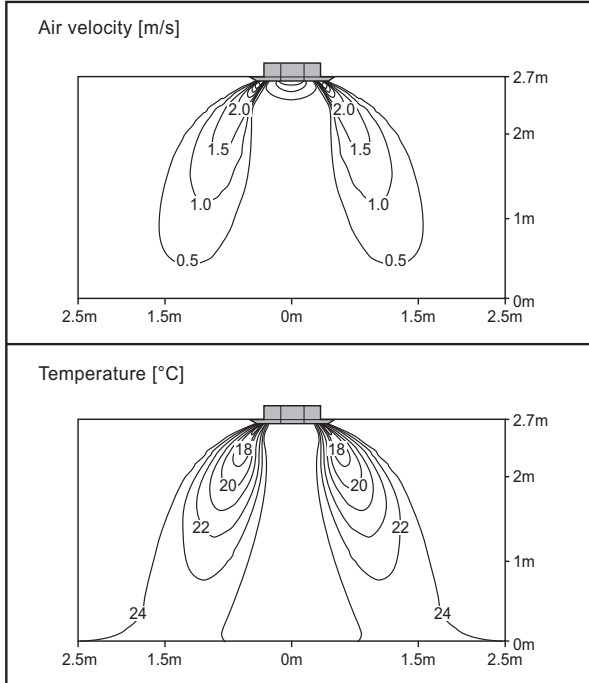


6. Air flow and temperature distributions (reference data)

Model : AMNW09GTRA1, AMNW12GTRA1

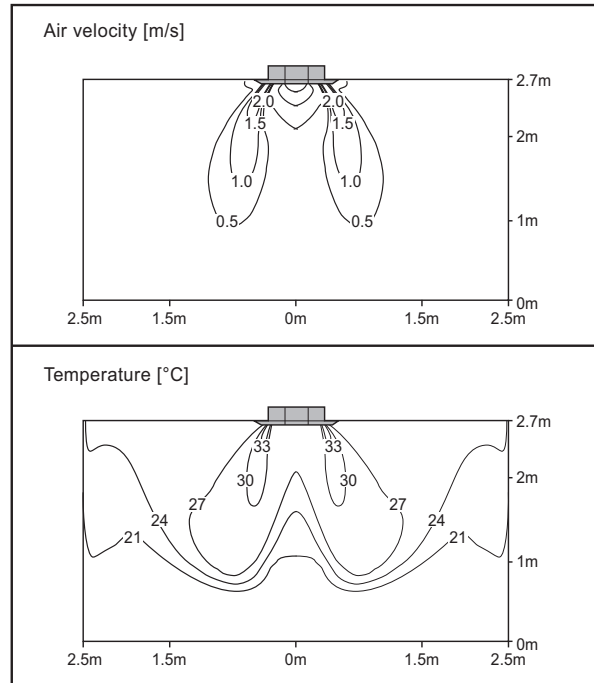
Cooling

Discharge angle: 40°



Heating

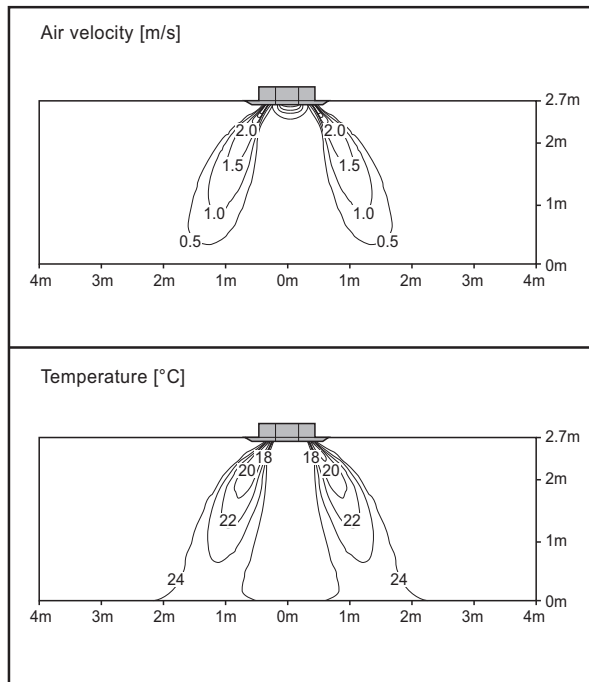
Discharge angle: 50°



Model : AMNW18GTQA1

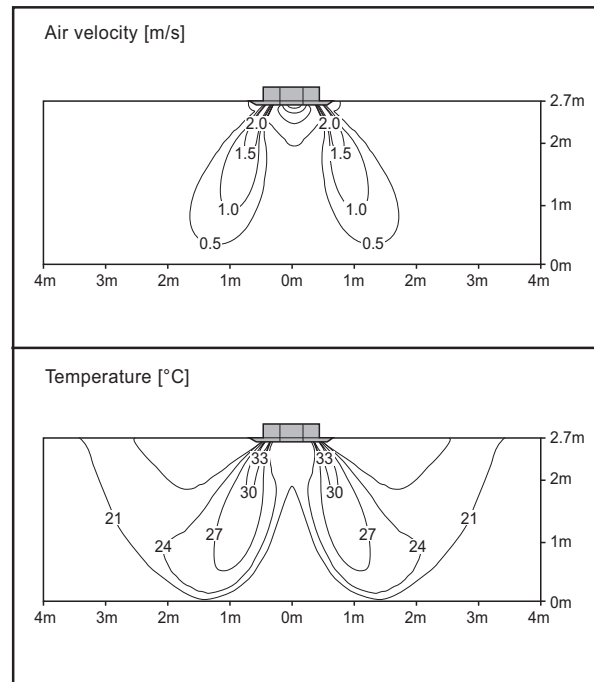
Cooling

Discharge angle: 40°



Heating

Discharge angle: 50°



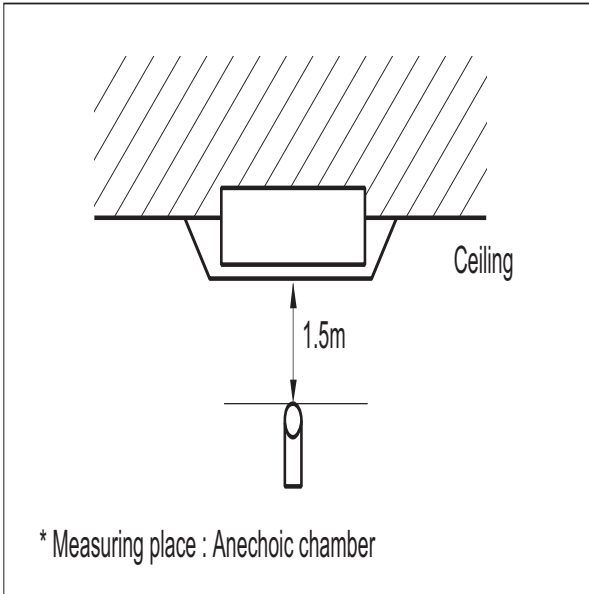
Note

- These figures are accordance with normal certain condition and environment. (Airflow step is 'High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

7. Sound levels

7.1 Sound pressure level

Overall

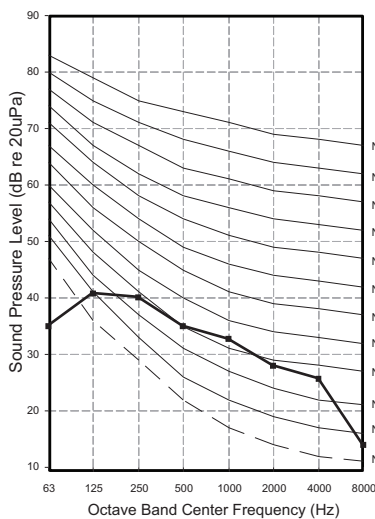


Note

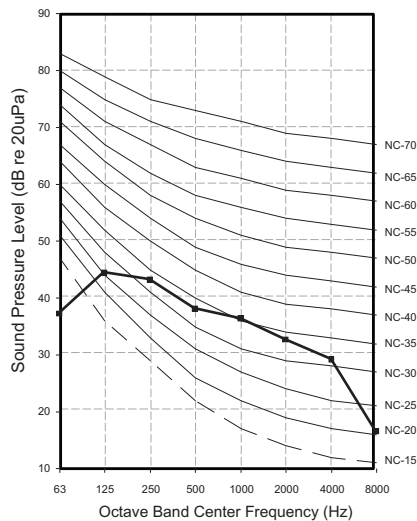
- Sound measured at 1.5m away from the center of the unit.
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Reference acoustic pressure 0dB=20μPa.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
- The operating conditions are assumed to be standard.

Model	Sound pressure Levels [dB(A)]		
	H	M	L
AMNW09GTRA1	36	33	30
AMNW12GTRA1	38	35	32
AMNW18GTQA1	41	36	

**AMNW09GTRA1
AMNW12GTRA1**



AMNW18GTQA1



7. Sound levels

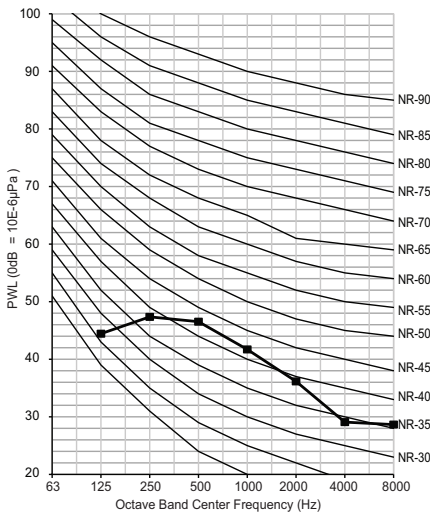
7.2 Sound power level

Note

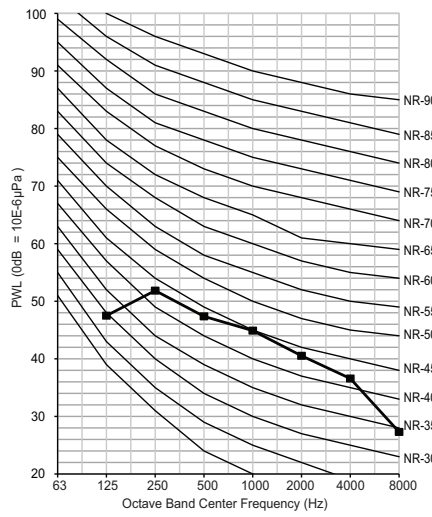
1. Reference acoustic intensity 0dB = 10E-6μW/m²
2. Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.

Model	Sound power level [dB(A)]
	H
AMNW09GTRA1	48
AMNW12GTRA1	51
AMNW18GTQA1	55

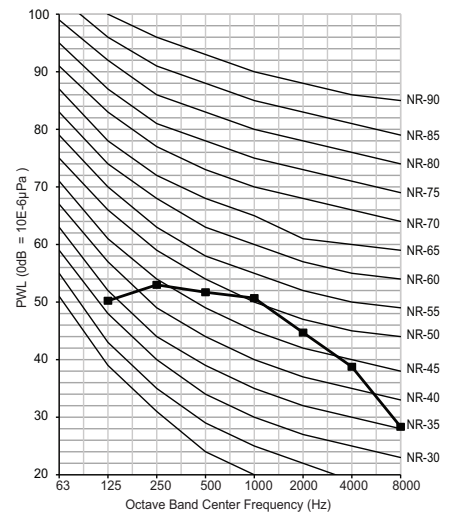
AMNW09GTRA1



AMNW12GTRA1



AMNW18GTQA1

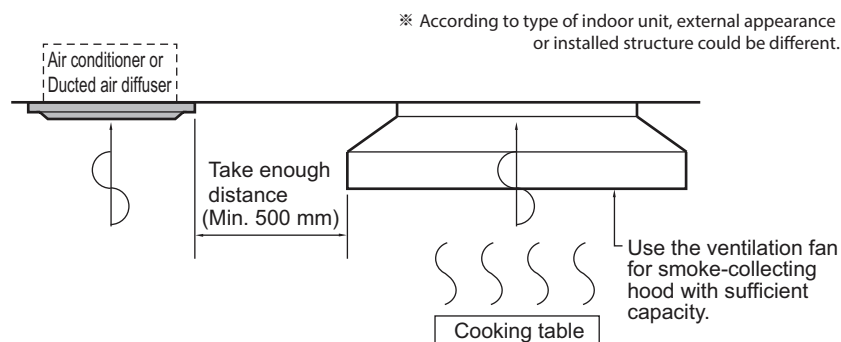


8. Installation

- Please read the instruction sheets completely before installing the product.
- When the power cord is damaged, replacement work shall be performed by authorized personnel only.
- Installation work must be performed in accordance with the national wiring standards.
- Teach the customer the operation and maintenance procedures, using the operation manual. (air filter cleaning, temperature control, etc.)

8.1 Selection of the best location

- The unit must be installed indoor area.
- Do not install the unit near the door.
- There should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- The place where the indoor unit can be connected with outdoor unit easily.
- The place where the unit is leveled.
- The place shall allow easy water drainage.
- The place where bear a load exceeding four times of the indoor unit weight.
- The mounting ceiling or wall should be solid enough to protect it from the vibration.
- The place where the unit is not affected by an electrical noise.
- The place where noise prevention is taken into consideration.
- The place where the maintenance space for product is sufficient. (The servicing inspection hole of the ceiling should be larger than the indoor unit.)
- The selection of the servicing inspection hole should be approved by the customer.
- There should not be any heat source or steam near the unit. Avoid the following installation location.
 1. Such places as restaurants and kitchen where considerable amount of oil steam and flour is generated. These may cause heat exchange efficiency reduction, or water drops, drain pump mal-function. In these cases, take the following actions;
 - Make sure that ventilation fan is enough to cover all noxious gases from this place.
 - Ensure enough distance from the cooking room to install the air conditioner in such a place where it may not suck oily steam.



2. Avoid installing air conditioner in such places where cooking oil or iron powder is generated.
3. Avoid places where inflammable gas is generated.
4. Avoid place where noxious gas is generated.
5. Avoid places near high frequency generators.

8. Installation

CAUTION

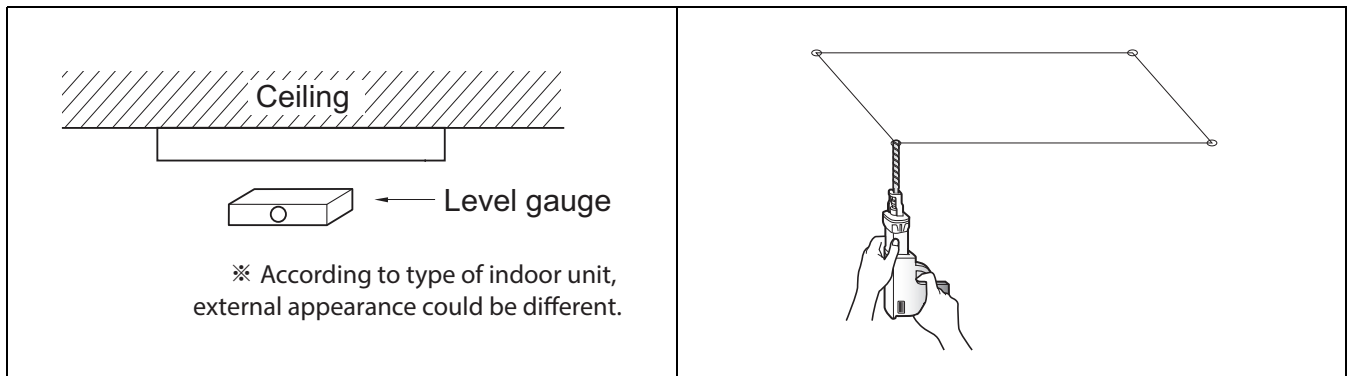
- If the temperature rise above 30°C or the humidity rise above RH 80%, the dew-protective kit should be equipped or use additional insulation to the indoor unit body.
 - "Dew Protective kit" is sold separately.
 - Use the glass wool material or polyethylene foam and it make sure to be thick of 10mm at least.
-

8. Installation

8.2 Ceiling opening dimensions and hanging bolt location

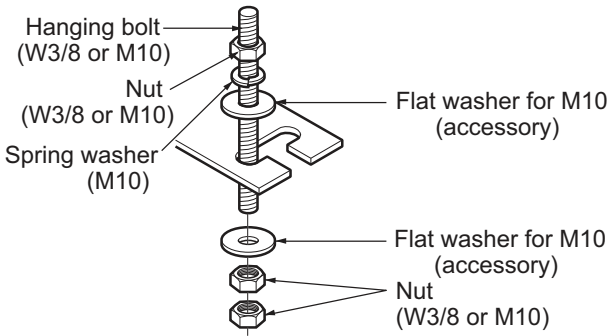
⚠ CAUTION

- During the installation, care should be taken not to damage electric wires.
- In case of using a drain pump, install the unit horizontally using a level gauge.



1. The dimensions of the paper model for installation are the same as those of the ceiling opening dimensions.
2. Select and mark the position for fixing bolts and piping hole.
3. Decide the position for fixing bolts slightly tilted to the drain direction after considering the direction of drain hose.
4. Drill the hole for anchor bolt on the wall or ceiling.
 - Insert the set anchor and washer onto the suspension bolts for locking the suspension bolts on the ceiling.
 - Mount the suspension bolts to the set anchor firmly.
 - Secure the installation plates onto the suspension bolts (adjust level roughly) using nuts, washers and spring washers.
5. In case of ducted type unit, apply a joint-canvas between the unit and duct to absorb unnecessary vibration.

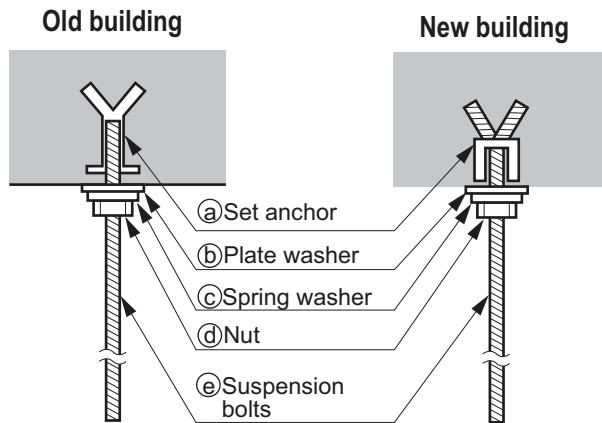
8. Installation



- The following parts are local purchasing.
 - 1.Hanging bolt - W 3/8 or M10
 - 2.Nut - W 3/8 or M10
 - 3.Spring washer - M10
 - 4.Plate washer - M10

CAUTION

- Tighten the nut and bolt to prevent the unit from falling.
- When mechanical connectors are reused indoors, sealing parts shall be renewed. (for R32)
- When flared joints are reused indoors, the flare part shall be re-fabricated. (for R32)



TQ/TR Chassis		TM/TM-A/TN/TP/TP-B Chassis
Panel Dimensions [Unit : mm]		
700 x 700	620 x 620	950 x 950

8. Installation

8.3 Connecting Cables between Indoor Unit and Outdoor Unit

8.3.1 General instructions

- All field supplied parts and materials, electric works must conform to local codes. Use copper wire only.
 - Follow the "**WIRING DIAGRAM**" attached to the unit body to wire the outdoor unit, indoor units and the remote controller.
 - All wiring must be performed by an authorized electrician.
 - A circuit breaker capable of shutting down the power supply to the entire system must be installed.
-

CAUTION

After the confirmation of the above conditions, prepare the wiring as follows:

- Never fail to have separate power specially for the air conditioner.
 - Provide a circuit breaker switch between power source and the unit.
 - Confirm the Specification of power source.
 - Confirm that electrical capacity is sufficient.
 - Be sure that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
 - Confirm that the cable thickness is as specified in the power sources specification.
(Particularly note the relation between cable length and thickness.)
 - Do not install the leakage breaker in a place which is wet or moist.
Water or moist may cause short circuit.
 - The following troubles would be caused by voltage drop-down.
 - » Vibration of a magnetic switch, damage on the contact point there of, fuse breaking, disturbance to the normal function of a overload protection device.
 - » Proper starting power is not given to the compressor.
-

8.3.2 Wiring connection

- Connect the wires to the terminals on the control board individually according to the outdoor unit connection.
- Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively.
- In case of the system with multiple indoor units, mark each indoor unit as unit A, unit B, etc and be sure the terminal board wiring to the outdoor unit and indoor units are properly matched. If wiring and piping between the outdoor unit and an indoor unit are mismatched, the system may cause a malfunction.

8.3.3 Clamping of cables

1. Arrange 2 power cables on the control panel.
2. First, fasten the steel clamp with a screw to the inner boss of control panel.
3. For connecting of communication (transmission) cable, put the cable(or thinner cable) on the clamp and tighten it with a plastic clamp to the other boss of the control panel. In case that communication (transmission) cable is not needed to connect, fix the other side of the clamp with a screw strongly.

8. Installation

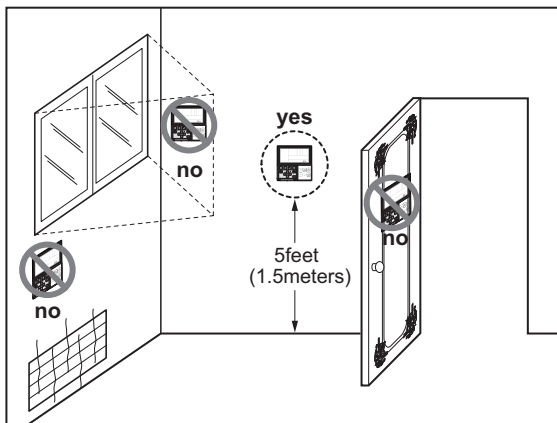
⚠ WARNING

- Make sure that the screws of the terminal are fixed tightly.
- The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could give rise to burn-out of the wires.)
- Make sure to attach the sealing material or (field supplied) to hole of wiring to prevent the infiltration of foreign particle from outside. Otherwise a short-circuit may occur inside the electric parts box.
- When clamping the wires, be sure no pressure is applied to the wire connections by using the included clamping material to make appropriate clamps. Also, when wiring, make sure the cover on the electric parts box fits snugly by arranging the wires neatly and attaching the electric parts box cover firmly. When attaching the electric parts box cover, make sure no wires get caught in the edges. Pass wiring through the wiring through holes to prevent damage to them.
- Make sure the remote controller wiring, the wiring between the units, and other electrical wiring do not pass through the same locations outside of the unit, separating them properly, otherwise electrical noise (external static) could cause product malfunction.

8.3.4 Wired Remote Controller Installation (Optional)

Since the room temperature sensor is in the remote controller, the remote controller box should be installed in a place away from direct sunlight, high humidity and direct supply of cold air to maintain proper space temperature.

Install the remote controller about 5ft(1.5m) above the floor in an area with good air circulation at an average temperature.



• Do not install the remote controller where it can be affected by :

- Drafts, or dead spots behind doors and in corners.
- Hot or cold air from ducts.
- Radiant heat from sun or appliances.
- Concealed pipes and chimneys.
- Uncontrolled areas such as an outside wall behind the remote controller.
- This remote controller is equipped with a seven segment LED. display. For proper display of the remote controller LED's, the remote controller should be installed properly. (The standard height is 1.2~1.5 m from floor level.)

8. Installation

8.4 Installation of Decoration Panel

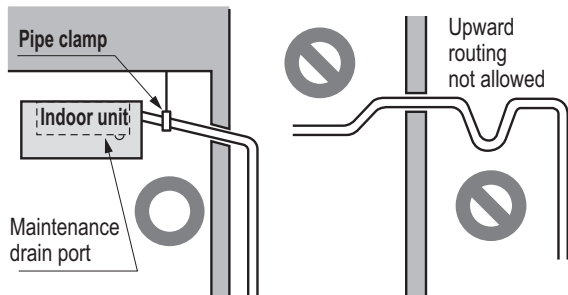
- The decoration panel has its installation direction.
 - Before installing the decoration panel, always remove the paper template.
-

8. Installation

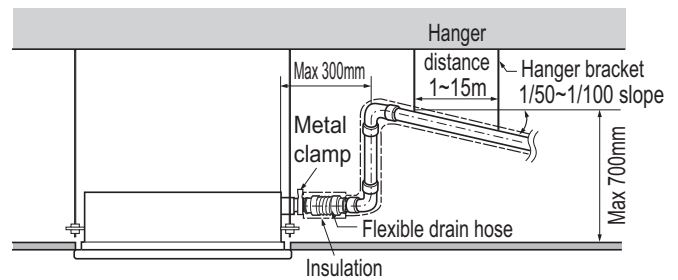
8.5 Indoor Unit Drain Piping

8.5.1 Drain piping of indoor unit with drain pump

- Drain piping must have down-slope (1/50 to 1/100). Be sure not to provide up-and-down slope to prevent reversal flow.
- During drain piping connection, be careful not to exert force on the drain port on the indoor unit.
- The outside diameter of the drain connection on the indoor unit is 32 mm (1-1/4 inch).
 - Piping material: Use the Polyvinyl chloride pipe, 25 mm (1 inch) pipe fittings.

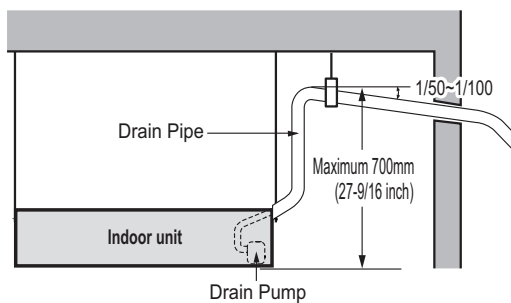


※ According to type of indoor unit, external appearance could be different.

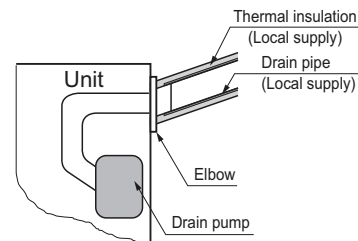


※ According to type of indoor unit, external appearance could be different.

- Possible drain head height is upto 700 mm (27-6/19 inch). So the drain head should be installed below 700 mm (27-6/19 inch).
- Be sure to install heat insulation on the drain piping.
 - Heat insulation material: Polyethylene foam with thickness more than 8 mm (5/16 inch).



※ According to type of indoor unit, external appearance could be different.



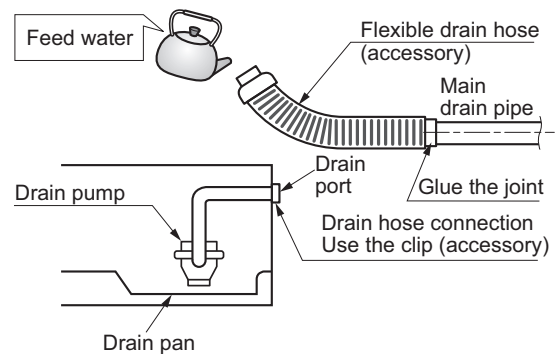
8. Installation

8.5.2 Method of Drainage test

◆ Drainage test of indoor unit with drain pump

Use the following procedure to test the drain pump operation.

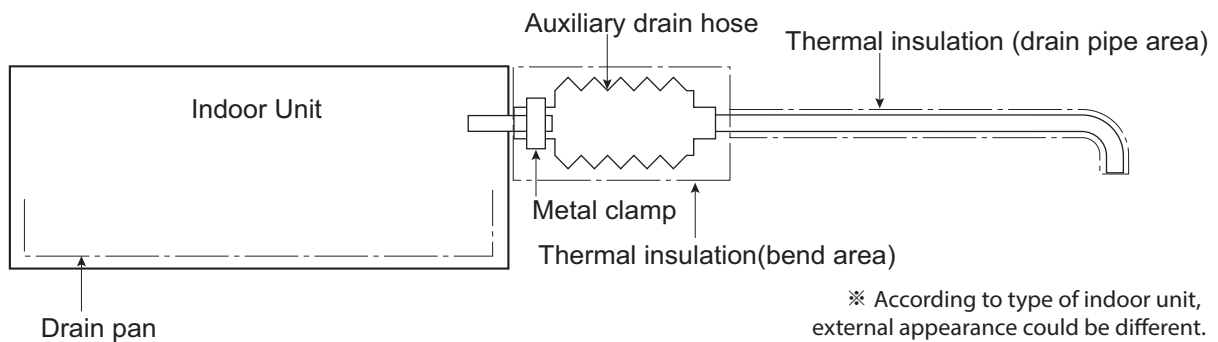
1. Connect the main drain pipe to the exterior and leave it provisionally until the test comes to an end.
2. Feed water to the flexible drain hose and check the piping for leakage.
3. Be sure to check the drain pump for normal operating and noise when electrical wiring is complete.
4. When the test is complete, connect the flexible drain hose to the drain port on the indoor unit.



※ According to type of indoor unit, external appearance could be different.

8.5.3 Connection of an auxiliary(flexible) drain hose

- To connect drain pipe to the drain socket on the indoor unit, an auxiliary flexible drain hose should be used. auxiliary flexible drain hose allows that the drain pipe can be connected to the socket without breaking by excessive strain.



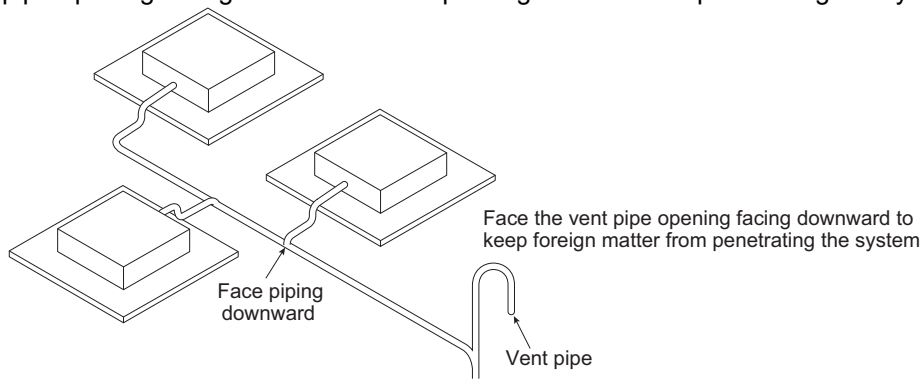
⚠ CAUTION

- The supplied flexible drain hose should not be curved, neither screwed. The curved or screwed hose may cause a leakage of water.
- It is need to insulate the auxiliary drain hose with thermal insulation material.

8. Installation

8.5.4 Ground drain piping

- It is standard work practice to make connections to the main pipe from above. The pipe down from the combination should be as large as possible.
- The pipe work should be kept as short as possible and the number of indoor units per group kept to a minimum.
- Face the vent pipe opening facing downward to keep foreign matter from penetrating the system.



MULTI

Indoor unit

Ceiling Mounted cassette (Dual Vane 4-Way)

- 1.List of Functions**
- 2.Specifications**
- 3.Dimensions**
- 4.Piping Diagrams**
- 5.Wiring Diagrams**
- 6.Air flow and temperature distribution**
- 7.Sound Levels**
- 8.Installation**

1. List of functions

◆ List of function

Category	Functions	AMNW24GTBA0
Air Flow	Air Supply Outlet	4
	Airflow Direction Control (left & right)	X
	Airflow Direction Control (up & down)	Auto
	Auto Swing (left & right)	X
	Auto Swing (up & down)	O
	Airflow Steps (fan/cool/heat)	4 / 5 / 4
	Fan Speed Auto*	X
	Power Cool/Heat	O / O
	Swirl Wind*	O
	Refresh Mode**	O
	Smart Mode**	O
	Indirect Wind*	O
	Direct Wind*	O
Dry Operation	O	
Air Purification	Air Purify	Accessory
	Ionizer	X
	UV-C	X
	Pre-Filter	O
	PM1.0 Filter	X
Reliability	Hot Start	O
	Self Diagnosis	O
Convenience	Auto Mode	O
	Auto Dry Operation	O
	Auto Restart	O
	Child Lock*	O
	Forced Operation	O
	Group Control*	O
	Sleep Timer	O
	Turn On/Off Reservation	O
	Schedule*	O
	Two Thermistor Control*	O
	External On/Off	O
Installation	Drain Pump	O
	E.S.P. Control*	X
	High Ceiling Operation*	O
Special Functions	Wi-Fi	Accessory
	Auto Elevation Grille	X
	Human Detection Function**	Accessory
	Floor Detection Function**	Accessory

Note

- O : Applied, X : Not Applied, - : Unconfirmed or irrelevant
Embedded : A kit is provided by default for using this function when the product is manufactured.
Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field. Accessory line-ups varies by region, so check your local catalogue or local sales material.
- Some functions can be limited by remote controller.
- In case of cassette type indoor units, Air Purification Kit and Auto Elevation Grille functions are not applicable at the same time.
- 'Auto Mode' varies depending on the outdoor unit type.
- Auto Change Over(Single Heat Pump Outdoor Unit)
- Auto Mode Select(Multi Heat Pump Outdoor Unit)
- Auto Intensity Control(Cooling Only Outdoor Unit)
- * : These functions need to connect the wired remote controller.
- ** : This functions need to connect to the Standard III wired remote controller.

1. List of functions

◆ Accessory Compatibility List

Category		Product	Remark	AMNW24GTBA0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
		PWLSSB21H	Heat Pump	O (Embedded)
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	Standard	PREMTB001	Standard II (White)	O
		PREMTBB01	Standard II (Black)	O
		PREMTB100	Standard III (White)	O
		PREMTBB10	Standard III (Black)	O
Premium	PREMTA000(A/B)	Premium	O	
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	For 3rd Party Thermostat	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O
		PDRYCB500	For Modbus	O
Gateway	IDU PI485	PHNFP14A0	Without case	X
		PSNFP14A0	With case	X
ETC	Remote temperature sensor	PQRSTA0	-	O
	Zone controller	ABZCA	-	X
	CO ₂ Sensor	PES-C0RV0	For ERV, ERV DX Indoor units	X
	Group control wire	PZCWRCG3	0.25m	O
	2-Remo Control Wire	PZCWRC2	0.25m	O
	Extension Wire	PZCWRC1	10m	O
	Wi-Fi Controller*	PWFMDD200	-	O
	Human detecting sensor	PTVSAA0	-	O
	Ionizer	PAS-NATDR2	-	X

Note

1. O: Possible, X: Impossible, -: Not applicable, Embedded: Included with product.
2. *: Some advanced functions controlled by individual controller cannot be operated.
3. If there is a difference in development time between the product and the remote controller, some functions cannot be operated.
4. Selecting a wireless remote controller in case of ducted type indoor units requires either a connection to the wired remote controller (Standard II) or an IR receiver accessory to be connected to the duct in order to receive the signal.
5. If you need more detail, please refer to the **BECON** PDB or the manual of product. (<http://partner.lge.com/global> : Home> Doc.Library> Product > Control(BECON))

◆ Panel(Accessory)

Model Name			PT-AAGW0	PT-AFGW0
Description		-	Standard Panel	Premium Panel
Exterior Color		-	White	White
RAL Code		-	RAL 9003	RAL 9003
Dual Vane		-	O	O
Dimensions (W x H x D)	Net	mm	950 x 35 x 950	950 x 35 x 950
	Shipping	mm	1,006 x 102 x 1,006	1,006 x 117 x 1,006
Weight	Net	kg	7.1	7.5
	Shipping	kg	9.3	9.4
Function	PM1.0 Sensor	-	X	O
Accessory	Air Purification Kit	-	X	PTAHMP0
	Floor Detection Sensor*	-	PTFSMA0	PTFSMA0
	Human Detection Sensor*	-	PTVSAA0	PTVSAA0

Note

1. Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
2. *: This functions need to connect to the RS3 wired remote controller(Standard III).

2. Specifications

Model Name			Unit	AMNW24GTBA0
Power Supply			V, Ø, Hz	220, 1, 60
Capacity(Nominal)	Cooling		kW	7.03
	Heating		kW	7.44
Power Input		H / M / L	W	36 / 26 / 21
Running Current		H / M / L	A	0.50 / 0.46 / 0.44
		Max.	A	0.60
Exterior	Color		-	Steel Gray
Dimensions		W x H x D	mm	840 × 204 × 840
Weight	Net		kg	21.1
	Shipping		kg	26.5
Heat Exchanger	Rows x Columns x FPI			(3 x 8 x 21) x 1
	Face Area		m ²	0.33
Fan Type				3D Turbo Fan
Air Flow Rate		H / M / L	m ³ /min	17.0 / 15.0 / 13.0
Fan Motor	Type			BLDC
	Drive			Internal
	Output		W x No.	50.25 x 1
Safety Device				Fuse / Thermal Protector for Fan Motor
Piping Connections	Liquid Side		mm (inch)	Ø 9.52 (3/8)
	Gas Side		mm (inch)	Ø 15.88 (5/8)
	Drain Pipe	O.D. / I.D.	mm	Ø 32.0 / 25.0
Sound Pressure Level	Cooling	H / M / L	dB(A)	38 / 36 / 34
	Heating	H / M / L	dB(A)	38 / 36 / 34
Sound Power Level	Cooling	Rated	dB(A)	53
	Heating	Rated	dB(A)	-
Power and Communication Cable (included Earth)			No. x mm ²	4C x 0.75

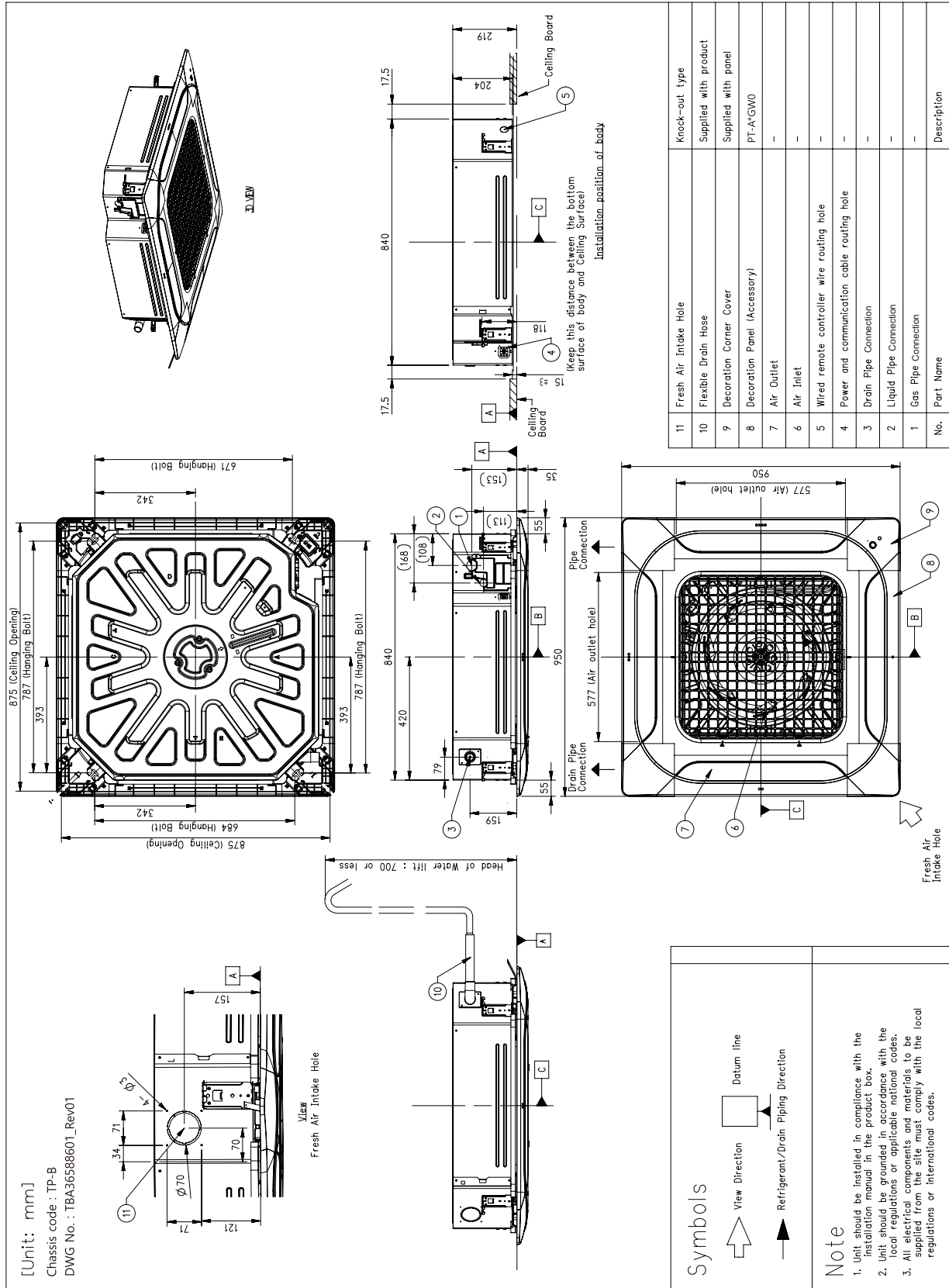
Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).
4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.
 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

3. Dimensions

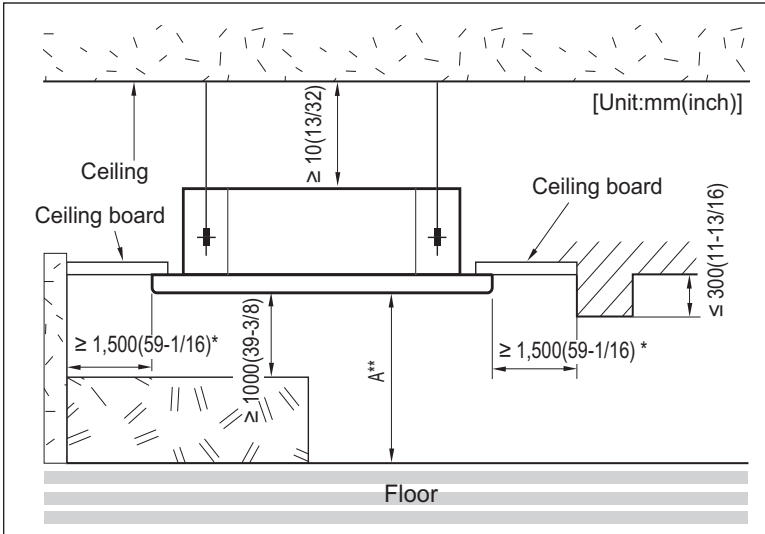
3.1 Dimensional Drawings

AMNW24GTBA0



3. Dimensions

3.2 Installation Space

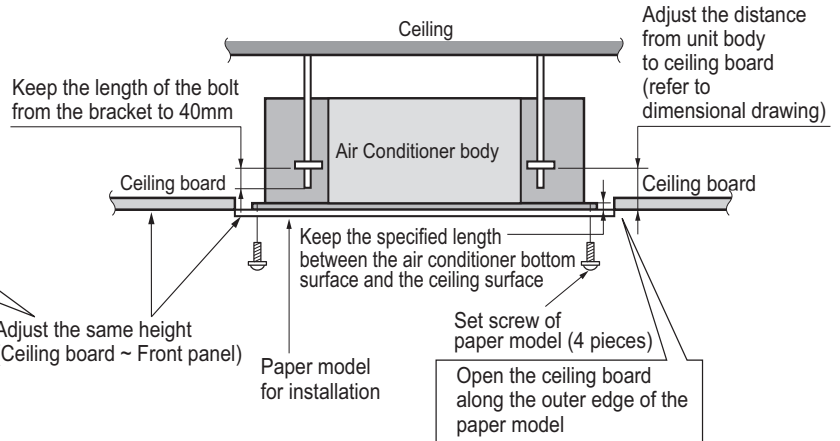
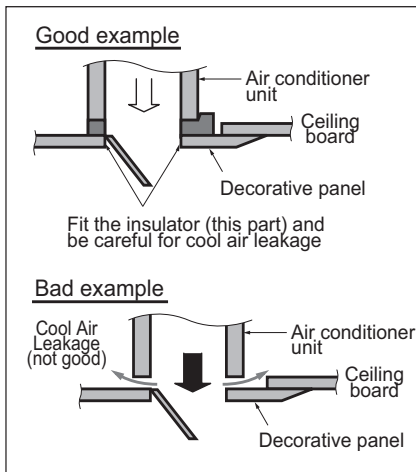


Notes

- * : Minimum Installation Space to Air flow direction
A separation distance of at least 1,500 mm is required throughout the airflow direction.
- ** : A, Installation Height from the floor

Capacity Class	Installation Height (A)		
	Min.	Standard ***	Max.
< 10 kW	2.0 m (6.56 ft)	2.7 m (8.86 ft)	3.6 m (11.81 ft)
≥ 10 kW	2.5 m (8.20 ft)	3.2 m (10.50 ft)	4.2 m (13.78 ft)

*** : Standard Height (Recommended)
If it exceeds the standard height, set the 'High Ceiling Mode'.
For details about function setting, refer to the installation manual.

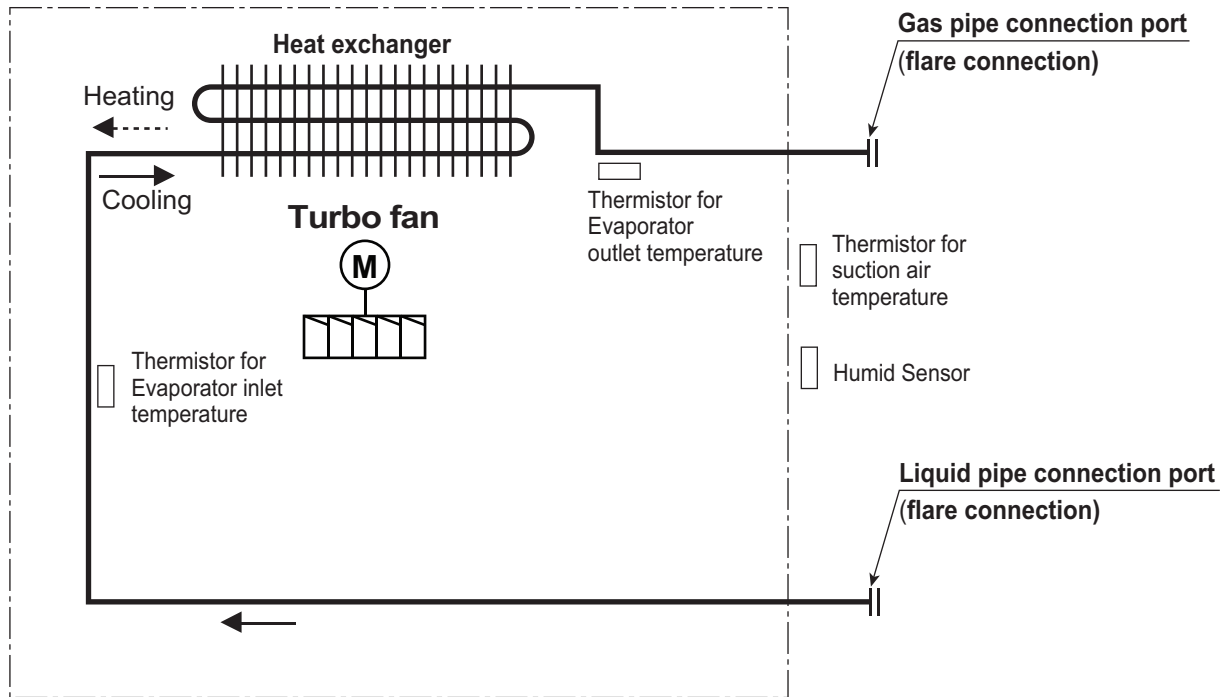


Note

- Places where products are installed should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- According to type of indoor unit, external appearance or installed structure could be different.
- According to product type, model line up, sales region..etc, applicability of each chassis could be different.
- Install certainly the decoration panel. Cool air leakage causes sweating or falling of water-drops.

4. Piping Diagrams

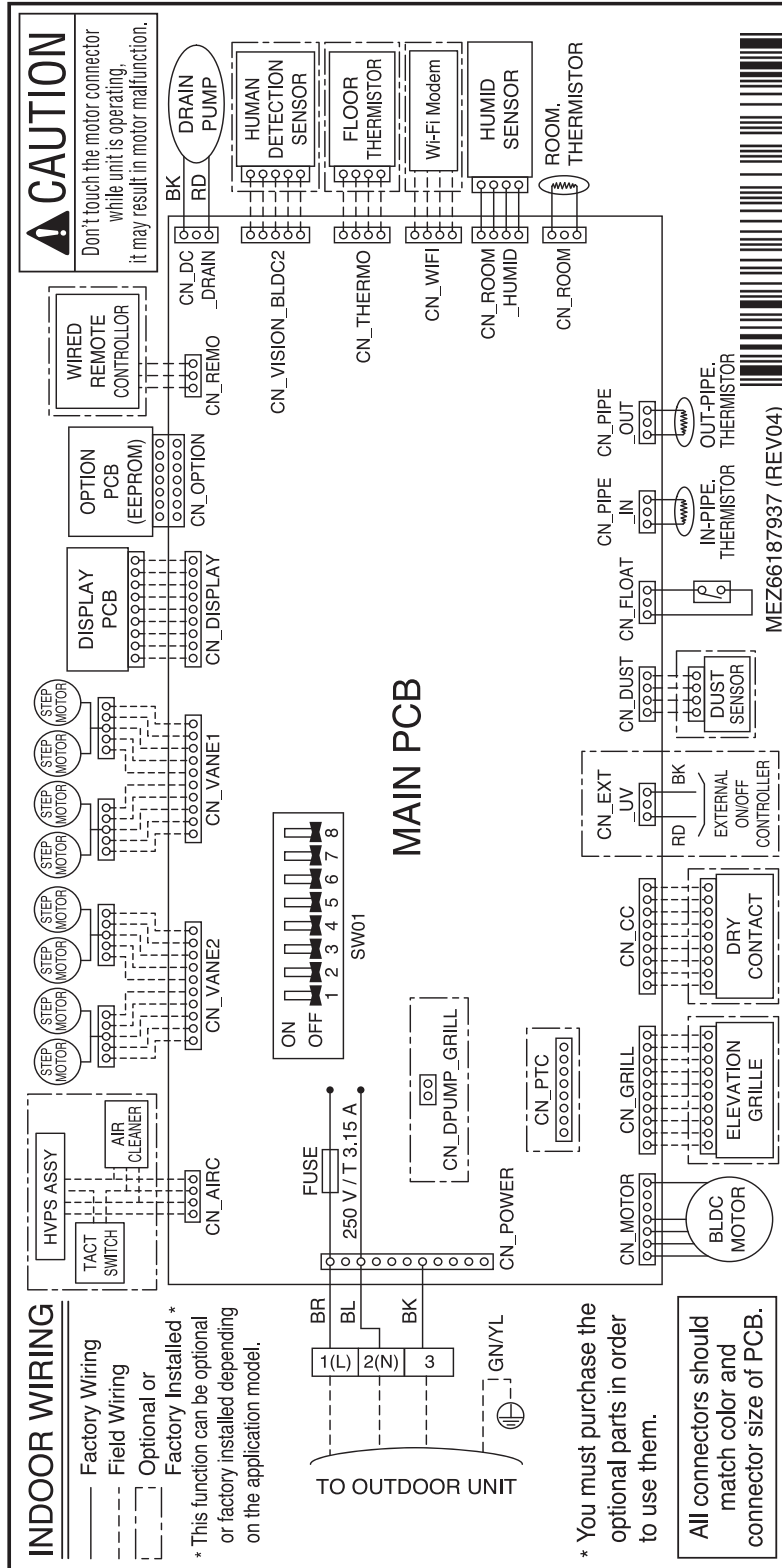
■ AMNW24GTBA0



Description	PCB Connector
Thermistor for suction air temperature	CN_ROOM
Thermistor for evaporator inlet temperature	CN_PIPE_IN
Thermistor for evaporator outlet temperature	CN_PIPE_OUT
Humid Sensor	CN_ROOM_HUMID

5. Wiring Diagrams

AMNW24GTBA0

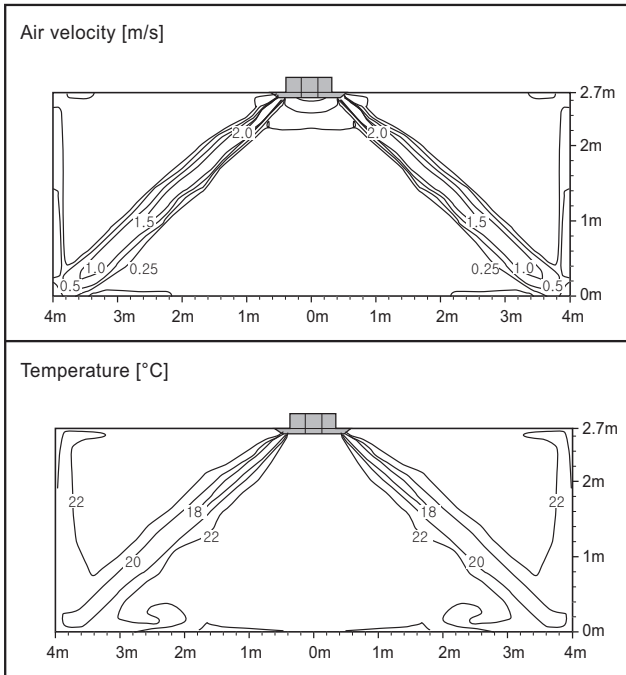


6. Air flow and temperature distributions (reference data)

■ AMNW24GTBA0

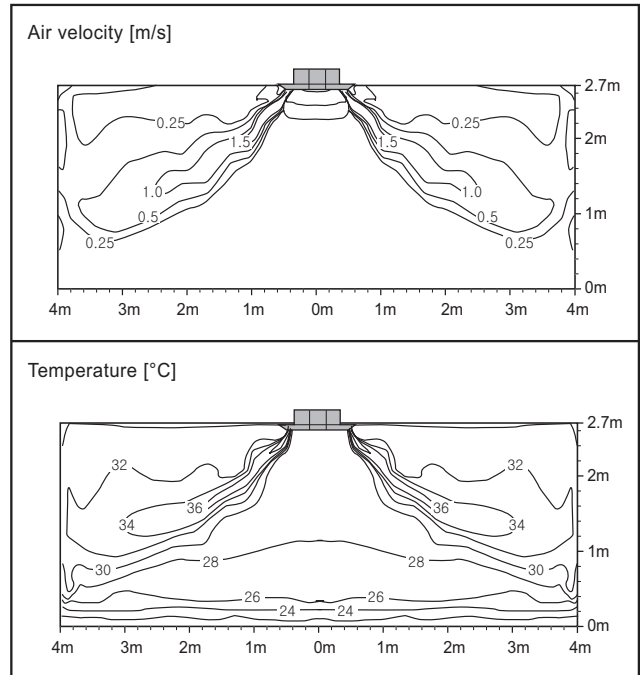
Cooling

Discharge angle: Outer - 30°, Inner - 67°



Heating

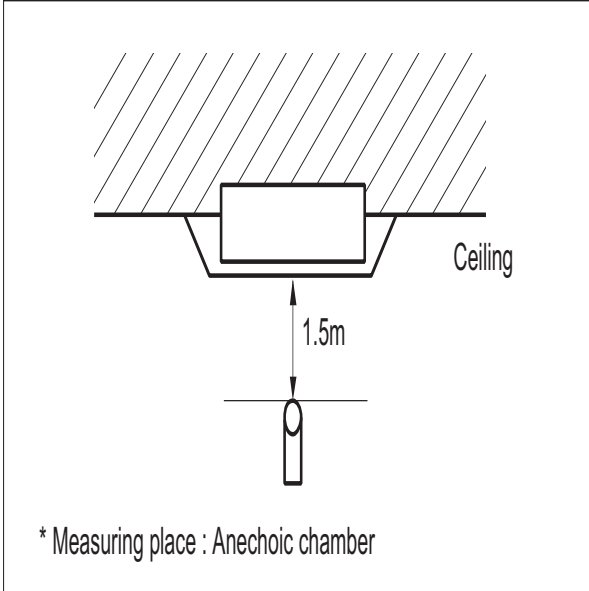
Discharge angle: Outer - 36°, Inner - 70°



7. Sound Levels

7.1 Sound Pressure Level

Overall

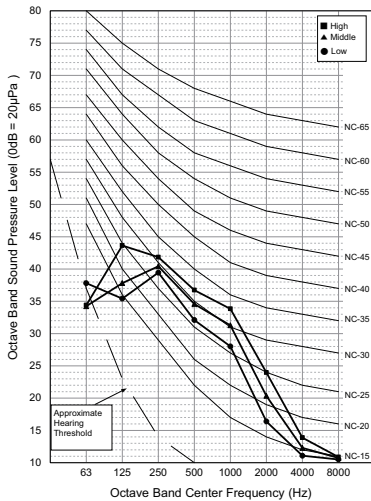


Note

1. Sound measured at some distance away from the center of the unit.
2. Data is valid at free field condition.
3. Reference acoustic pressure 0dB = 20μPa.
4. Data is valid at nominal operation condition.
Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
5. Sound levels can be increased in accordance with installation and operating conditions. (Static pressure mode, used air guide, Room target temperature setting, etc)
6. Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
7. Sound pressure level is measured on the rated condition in the anechoic rooms. (LG Internal Standard)
Therefore, these values can be increased owing to ambient conditions during operation.

Model	Sound pressure Levels [dB(A)]		
	H	M	L
AMNW24GTBA0	38	36	34

AMNW24GTBA0



7. Sound Levels

7.2 Sound Power Level

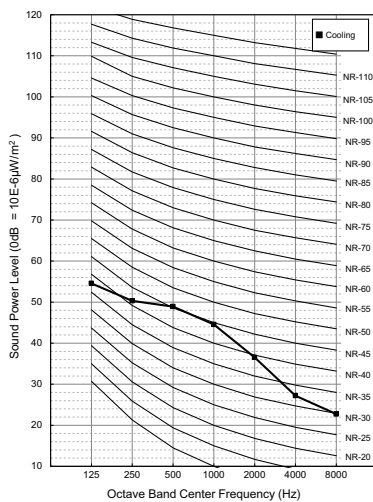
Note

1. Data is valid at diffuse field condition.
2. Data is valid at nominal operation condition.
Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
3. Sound level can be increased in static pressure mode or used air guide.
4. Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient).
5. Reference acoustic intensity 0dB = $10E-6\mu W/m^2$
6. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
Therefore, these values can be increased owing to ambient conditions during operation.

Model	Sound power level [dB(A)]	
	Cooling	Heating
AMNW24GTBA0	53	-

◆ **Cooling**

AMNW24GTBA0

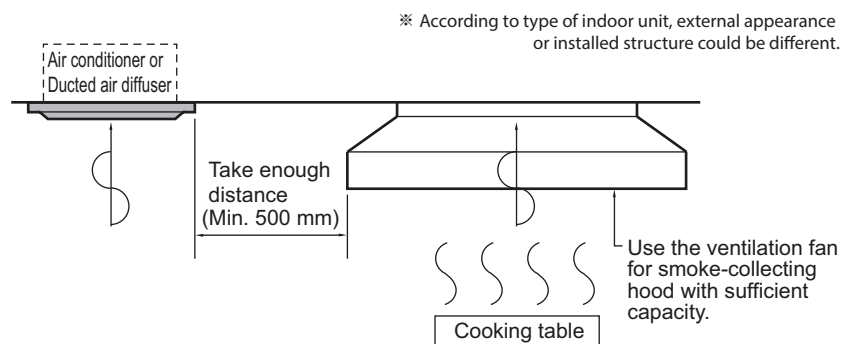


8. Installation

- Please read the instruction sheets completely before installing the product.
- When the power cord is damaged, replacement work shall be performed by authorized personnel only.
- Installation work must be performed in accordance with the national wiring standards.
- Teach the customer the operation and maintenance procedures, using the operation manual. (air filter cleaning, temperature control, etc.)

8.1 Selection of the best location

- The unit must be installed indoor area.
- Do not install the unit near the door.
- There should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- The place where the indoor unit can be connected with outdoor unit easily.
- The place where the unit is leveled.
- The place shall allow easy water drainage.
- The place where bear a load exceeding four times of the indoor unit weight.
- The mounting ceiling or wall should be solid enough to protect it from the vibration.
- The place where the unit is not affected by an electrical noise.
- The place where noise prevention is taken into consideration.
- The place where the maintenance space for product is sufficient. (The servicing inspection hole of the ceiling should be larger than the indoor unit.)
- The selection of the servicing inspection hole should be approved by the customer.
- There should not be any heat source or steam near the unit. Avoid the following installation location.
 1. Such places as restaurants and kitchen where considerable amount of oil steam and flour is generated. These may cause heat exchange efficiency reduction, or water drops, drain pump mal-function. In these cases, take the following actions;
 - Make sure that ventilation fan is enough to cover all noxious gases from this place.
 - Ensure enough distance from the cooking room to install the air conditioner in such a place where it may not suck oily steam.



2. Avoid installing air conditioner in such places where cooking oil or iron powder is generated.
3. Avoid places where inflammable gas is generated.
4. Avoid place where noxious gas is generated.
5. Avoid places near high frequency generators.

8. Installation

CAUTION

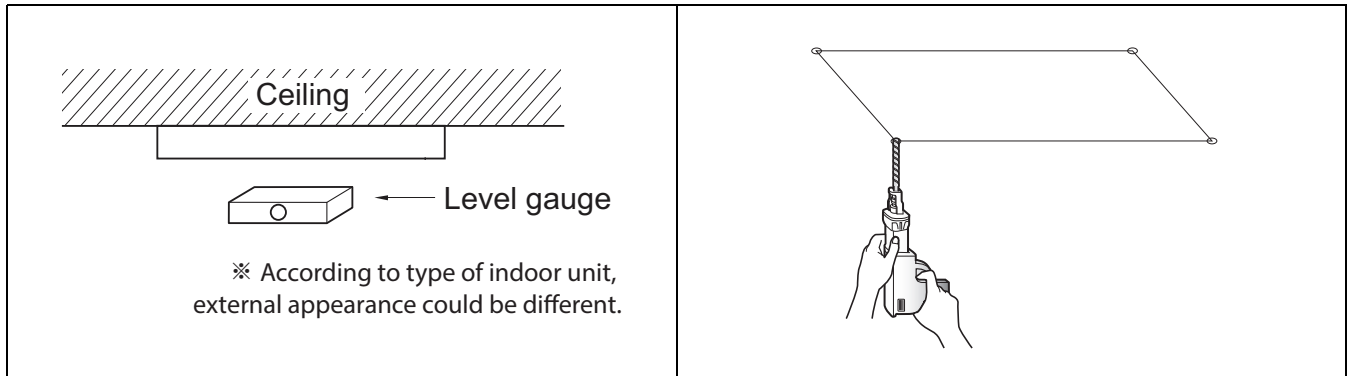
- If the temperature rise above 30°C or the humidity rise above RH 80%, the dew-protective kit should be equipped or use additional insulation to the indoor unit body.
 - "Dew Protective kit" is sold separately.
 - Use the glass wool material or polyethylene foam and it make sure to be thick of 10mm at least.
-

8. Installation

8.2 Ceiling opening dimensions and hanging bolt location

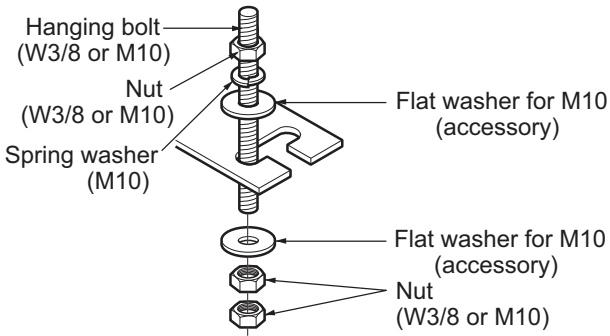
⚠ CAUTION

- During the installation, care should be taken not to damage electric wires.
- In case of using a drain pump, install the unit horizontally using a level gauge.



1. The dimensions of the paper model for installation are the same as those of the ceiling opening dimensions.
2. Select and mark the position for fixing bolts and piping hole.
3. Decide the position for fixing bolts slightly tilted to the drain direction after considering the direction of drain hose.
4. Drill the hole for anchor bolt on the wall or ceiling.
 - Insert the set anchor and washer onto the suspension bolts for locking the suspension bolts on the ceiling.
 - Mount the suspension bolts to the set anchor firmly.
 - Secure the installation plates onto the suspension bolts (adjust level roughly) using nuts, washers and spring washers.
5. In case of ducted type unit, apply a joint-canvas between the unit and duct to absorb unnecessary vibration.

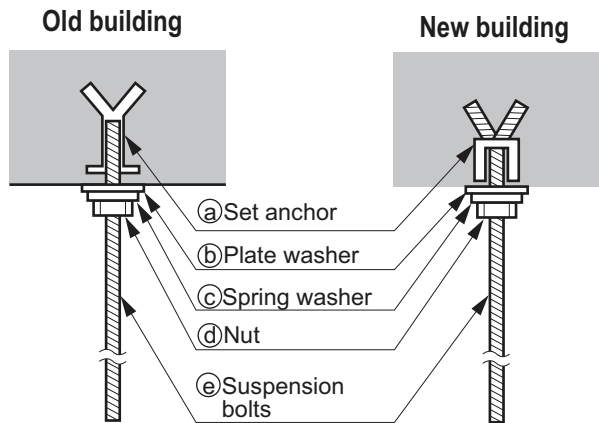
8. Installation



- The following parts are local purchasing.
 1. Hanging bolt - W 3/8 or M10
 2. Nut - W 3/8 or M10
 3. Spring washer - M10
 4. Plate washer - M10

CAUTION

- Tighten the nut and bolt to prevent the unit from falling.
- When mechanical connectors are reused indoors, sealing parts shall be renewed. (for R32)
- When flared joints are reused indoors, the flare part shall be re-fabricated. (for R32)



TQ/TR Chassis		TM/TM-A/TN/TP/TP-B Chassis
Panel Dimensions [Unit : mm]		
700 x 700	620 x 620	950 x 950
<p>585-660(Ceiling opening) 517 570 319 570 517 585-660(Ceiling opening) 461 Unit:mm</p>	<p>600(Ceiling opening) 517 570 319 570 517 600(Ceiling opening) 461 Unit:mm</p>	<p>875(Ceiling opening) 787(Hanging bolt) 840 Unit size 840 Unit size 671 684(Hanging bolt) 684 875(Ceiling opening) Unit:mm</p>

8. Installation

8.3 Connecting Cables between Indoor Unit and Outdoor Unit

8.3.1 General instructions

- All field supplied parts and materials, electric works must conform to local codes. Use copper wire only.
 - Follow the "**WIRING DIAGRAM**" attached to the unit body to wire the outdoor unit, indoor units and the remote controller.
 - All wiring must be performed by an authorized electrician.
 - A circuit breaker capable of shutting down the power supply to the entire system must be installed.
-

CAUTION

After the confirmation of the above conditions, prepare the wiring as follows:

- Never fail to have separate power specially for the air conditioner.
 - Provide a circuit breaker switch between power source and the unit.
 - Confirm the Specification of power source.
 - Confirm that electrical capacity is sufficient.
 - Be sure that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
 - Confirm that the cable thickness is as specified in the power sources specification.
(Particularly note the relation between cable length and thickness.)
 - Do not install the leakage breaker in a place which is wet or moist.
Water or moist may cause short circuit.
 - The following troubles would be caused by voltage drop-down.
 - » Vibration of a magnetic switch, damage on the contact point there of, fuse breaking, disturbance to the normal function of a overload protection device.
 - » Proper starting power is not given to the compressor.
-

8.3.2 Wiring connection

- Connect the wires to the terminals on the control board individually according to the outdoor unit connection.
- Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively.
- In case of the system with multiple indoor units, mark each indoor unit as unit A, unit B, etc and be sure the terminal board wiring to the outdoor unit and indoor units are properly matched. If wiring and piping between the outdoor unit and an indoor unit are mismatched, the system may cause a malfunction.

8.3.3 Clamping of cables

1. Arrange 2 power cables on the control panel.
2. First, fasten the steel clamp with a screw to the inner boss of control panel.
3. For connecting of communication (transmission) cable, put the cable(or thinner cable) on the clamp and tighten it with a plastic clamp to the other boss of the control panel. In case that communication (transmission) cable is not needed to connect, fix the other side of the clamp with a screw strongly.

8. Installation

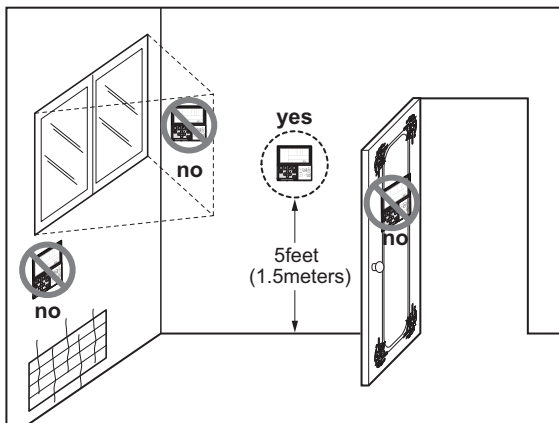
⚠ WARNING

- Make sure that the screws of the terminal are fixed tightly.
- The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could give rise to burn-out of the wires.)
- Make sure to attach the sealing material or (field supplied) to hole of wiring to prevent the infiltration of foreign particle from outside. Otherwise a short-circuit may occur inside the electric parts box.
- When clamping the wires, be sure no pressure is applied to the wire connections by using the included clamping material to make appropriate clamps. Also, when wiring, make sure the cover on the electric parts box fits snugly by arranging the wires neatly and attaching the electric parts box cover firmly. When attaching the electric parts box cover, make sure no wires get caught in the edges. Pass wiring through the wiring through holes to prevent damage to them.
- Make sure the remote controller wiring, the wiring between the units, and other electrical wiring do not pass through the same locations outside of the unit, separating them properly, otherwise electrical noise (external static) could cause product malfunction.

8.3.4 Wired Remote Controller Installation (Optional)

Since the room temperature sensor is in the remote controller, the remote controller box should be installed in a place away from direct sunlight, high humidity and direct supply of cold air to maintain proper space temperature.

Install the remote controller about 5ft(1.5m) above the floor in an area with good air circulation at an average temperature.



• Do not install the remote controller where it can be affected by :

- Drafts, or dead spots behind doors and in corners.
- Hot or cold air from ducts.
- Radiant heat from sun or appliances.
- Concealed pipes and chimneys.
- Uncontrolled areas such as an outside wall behind the remote controller.
- This remote controller is equipped with a seven segment LED. display. For proper display of the remote controller LED's, the remote controller should be installed properly. (The standard height is 1.2~1.5 m from floor level.)

8. Installation

8.4 Installation of Decoration Panel

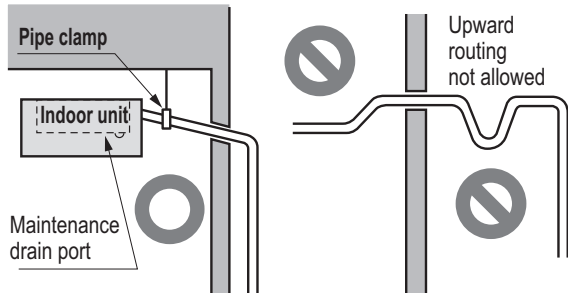
- The decoration panel has its installation direction.
 - Before installing the decoration panel, always remove the paper template.
-

8. Installation

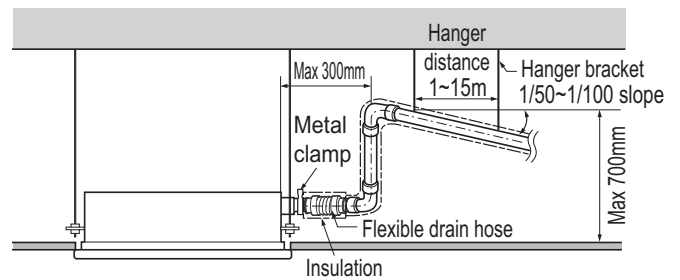
8.5 Indoor Unit Drain Piping

8.5.1 Drain piping of indoor unit with drain pump

- Drain piping must have down-slope (1/50 to 1/100). Be sure not to provide up-and-down slope to prevent reversal flow.
- During drain piping connection, be careful not to exert force on the drain port on the indoor unit.
- The outside diameter of the drain connection on the indoor unit is 32 mm (1-1/4 inch).
 - Piping material: Use the Polyvinyl chloride pipe, 25 mm (1 inch) pipe fittings.

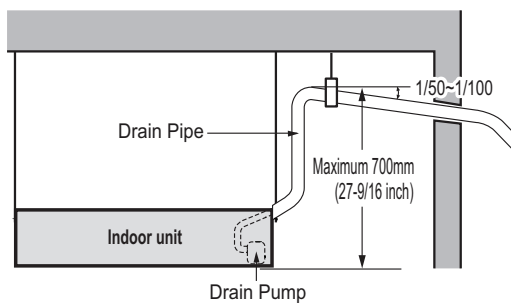


※ According to type of indoor unit, external appearance could be different.

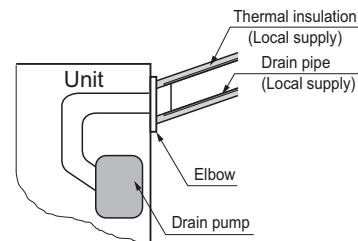


※ According to type of indoor unit, external appearance could be different.

- Possible drain head height is upto 700 mm (27-6/19 inch). So the drain head should be installed below 700 mm (27-6/19 inch).
- Be sure to install heat insulation on the drain piping.
 - Heat insulation material: Polyethylene foam with thickness more than 8 mm (5/16 inch).



※ According to type of indoor unit, external appearance could be different.



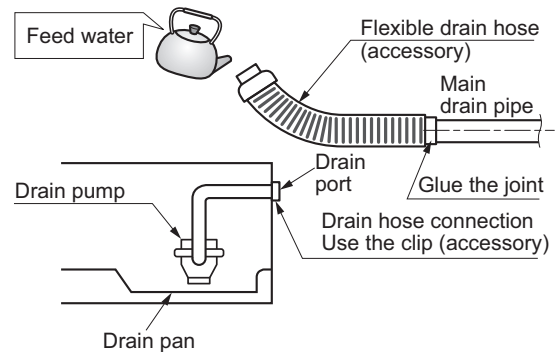
8. Installation

8.5.2 Method of Drainage test

◆ Drainage test of indoor unit with drain pump

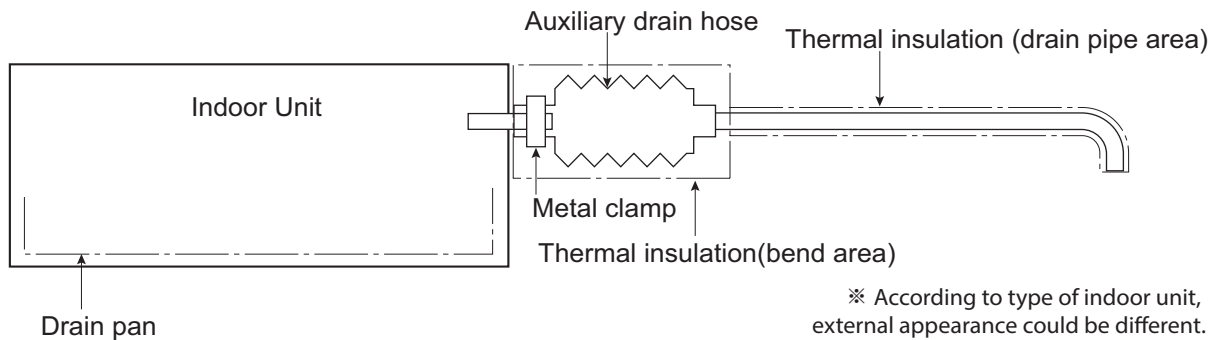
Use the following procedure to test the drain pump operation.

1. Connect the main drain pipe to the exterior and leave it provisionally until the test comes to an end.
2. Feed water to the flexible drain hose and check the piping for leakage.
3. Be sure to check the drain pump for normal operating and noise when electrical wiring is complete.
4. When the test is complete, connect the flexible drain hose to the drain port on the indoor unit.



8.5.3 Connection of an auxiliary(flexible) drain hose

- To connect drain pipe to the drain socket on the indoor unit, an auxiliary flexible drain hose should be used. auxiliary flexible drain hose allows that the drain pipe can be connected to the socket without breaking by excessive strain.



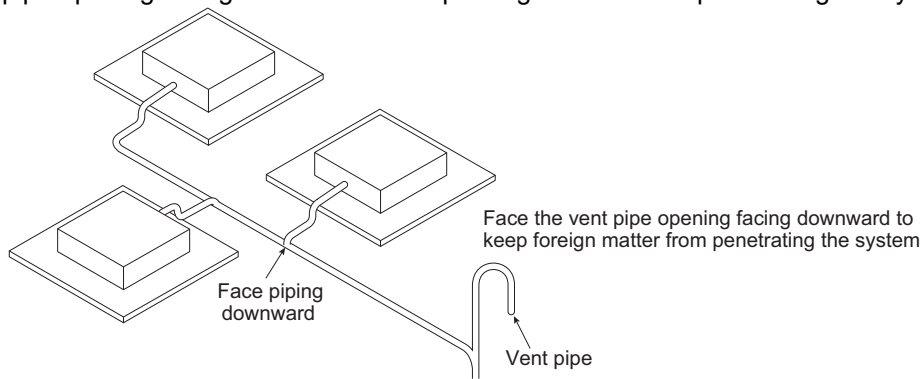
⚠ CAUTION

- The supplied flexible drain hose should not be curved, neither screwed. The curved or screwed hose may cause a leakage of water.
- It is need to insulate the auxiliary drain hose with thermal insulation material.

8. Installation

8.5.4 Ground drain piping

- It is standard work practice to make connections to the main pipe from above. The pipe down from the combination should be as large as possible.
- The pipe work should be kept as short as possible and the number of indoor units per group kept to a minimum.
- Face the vent pipe opening facing downward to keep foreign matter from penetrating the system.



MULTI

Indoor Unit

Ceiling Concealed Duct - Middle Static Pressure

- 1.List of functions**
- 2.Specification**
- 3.Dimensions**
- 4.Piping Diagrams**
- 5.Wiring Diagrams**
- 6.External static pressure & Air flow**
- 7.Sound levels**
- 8.Installation**

1. List of functions

◆ List of function

Category	Functions	AMNW18GM1A0 AMNW24GM1A0
Air Flow	Air Supply Outlet	1
	Airflow Steps (fan/cool/heat)	3 / 3 / 3
	Fan Speed Auto*	X
	Power Cool/Heat	X / X
	Dry Operation	O
Air Purification	Air Purify	Accessory
	UV-C	Accessory
	Pre-Filter	O
Reliability	Hot Start	O
	Self Diagnosis	O
Convenience	Auto Mode	O
	Auto Dry Operation	O
	Auto Restart	O
	Child Lock*	O
	Group Control*	O
	Sleep Timer	O
	Turn On/Off Reservation	O
	Schedule*	O
	Two Thermistor Control*	O
External On/Off	O	
Installation	Drain Pump	Accessory
	E.S.P. Setting	O
Special Functions	Wi-Fi	Accessory

Note

1. O : Applied, X : Not Applied, - : Unconfirmed or irrelevant

Embedded : A kit is provided by default for using this function when the product is manufactured.

Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field. Accessory line-ups varies by region, so check your local catalogue or local sales material.

2. Some functions can be limited by remote controller.

3. In case of cassette type indoor units, Air Purification Kit and Auto Elevation Grille functions are not applicable at the same time.

4. 'Auto Mode' varies depending on the outdoor unit type.

- Auto Change Over(Single Heat Pump Outdoor Unit)

- Auto Mode Select(Multi Heat Pump Outdoor Unit)

- Auto Intensity Control(Cooling Only Outdoor Unit)

5. * : These functions need to connect the wired remote controller.

6. ** : This functions need to connect to the Standard III wired remote controller.

1. List of functions

◆ Accessory Compatibility List

Category		Product	Remark	AMNW18GM1A0 AMNW24GM1A0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	X
		PWLSSB21H	Heat Pump	X
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	Standard	PREMTB001	Standard II (White)	O
		PREMTBB01	Standard II (Black)	O
		PREMTB100**	Standard III (White)	O
Premium	PREMTA000(A/B)	Premium	O	
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	For 3rd Party Thermostat	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O
		PDRYCB500	For Modbus	O
Gateway	IDU PI485	PHNFP14A0	Without case	X
		PSNFP14A0	With case	X
ETC	Remote temperature sensor	PQRSTA0	-	O
	Zone controller	ABZCA	-	O
	CTI (Communication transfer interface)	PKFC0	-	X
	CO ₂ Sensor	PES-C0RV0	For ERV, ERV DX Indoor units	X
	Group control wire	PZCWRCG3	0.25m	O
	2-Remo Control Wire	PZCWRC2	0.25m	O
	Extension Wire	PZCWRC1	10m	O
Wi-Fi Controller*	PWFMDD200	-	O	

Note

1. O: Possible, X: Impossible, -: Not applicable, Embedded: Included with product.
2. *: Some advanced functions controlled by individual controller cannot be operated.
3. **: It could not be operated some functions.
4. If you need more detail, please refer to the **BECON** PDB or the manual of product. (<http://partner.lge.com/global> : Home> Doc.Library> Product > Control(BECON))

2. Specifications

Model Name				AMNW18GM1A0	AMNW24GM1A0
Power Supply			V, Ø, Hz	220-240, 1, 50 220, 1, 60	220-240, 1, 50 220, 1, 60
Power Input			W	80	90
Running Current			A	0.40	0.50
Dimensions	Body	W x H x D	mm	900 × 270 × 700	900 × 270 × 700
		W x H x D	inch	35-7/16 x 10-5/8 x 27-9/16	35-7/16 x 10-5/8 x 27-9/16
Net Weight			kg (lbs)	24.0 (52.9)	24.0 (52.9)
Shipping Weight			kg (lbs)	29.0 (63.9)	29.0 (63.9)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 13 x 18) x 1	(2 x 13 x 18) x 1
	Face Area		m ² (ft ²)	0.21 (2.25)	0.21 (2.25)
Fan	Type		-	Sirocco Fan	Sirocco Fan
	Air Flow Rate	High-static Mode (Factory Set)	H / M / L	m ³ /min	16.5 / 14.5 / 13.0
			H / M / L	ft ³ /min	582 / 512 / 459
External Static Pressure		Pa (mmAq)	58.8 (6)	58.8 (6)	
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	136.5 x 1	136.5 x 1
Sound Pressure Level		H / M / L	dB(A)	34 / 32 / 30	35 / 34 / 32
Sound Power Level		Max.	dB(A)	59	60
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)*	Ø 6.35 (1/4)*
	Gas		mm(inch)	Ø 12.7 (1/2)*	Ø 12.7 (1/2)*
	Drain (O.D. / I.D.)		mm(inch)	Ø 32.0(1-1/4) / 25.0(31/32)	Ø 32.0(1-1/4) / 25.0(31/32)
Safety Devices			-	Fuse	Fuse
			-	-	-
Power and Communication Cable (included Earth)			No. x mm ² (AWG)	4C x 0.75 (18)	4C x 0.75 (18)

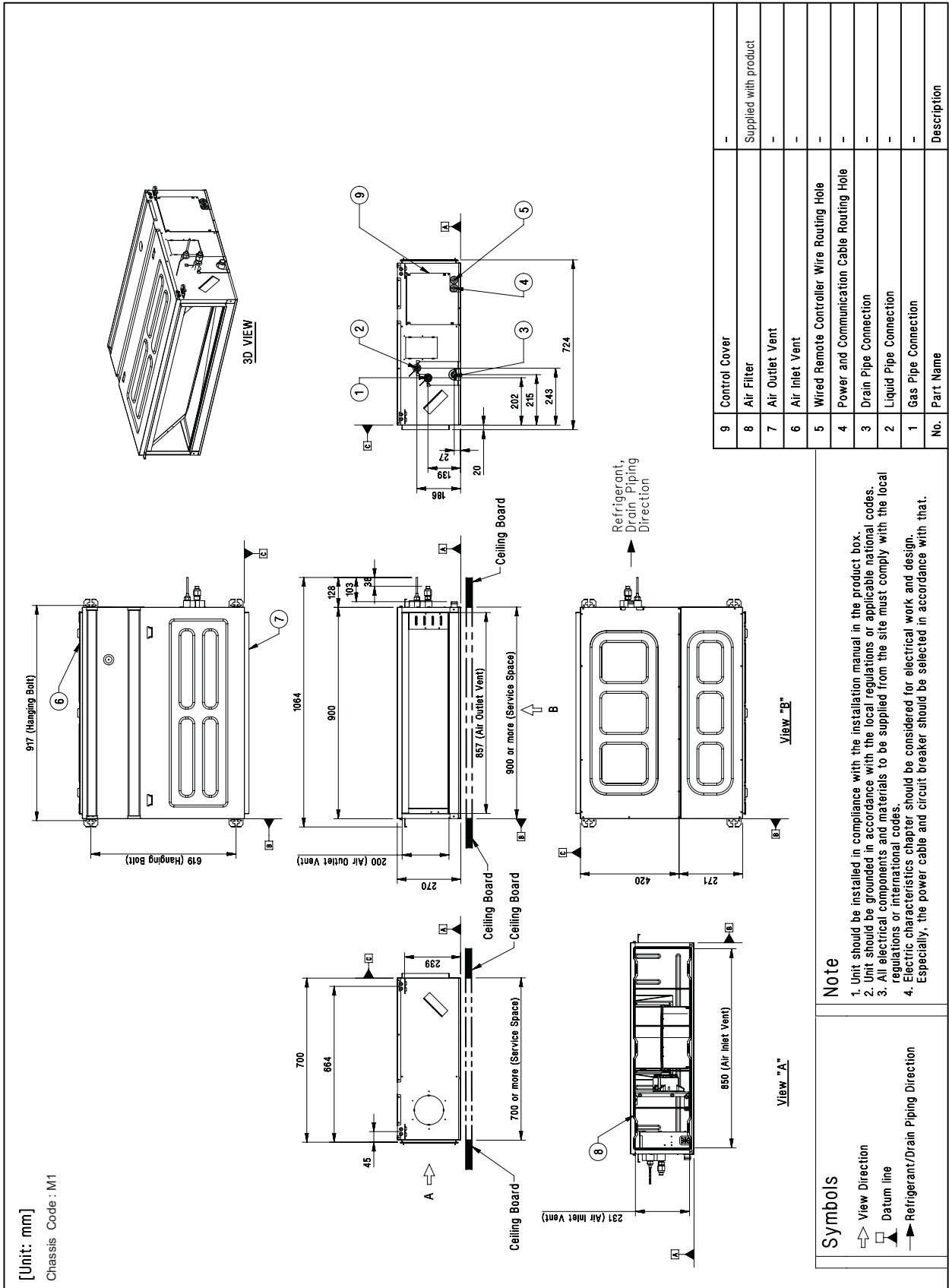
Note

- Due to our policy of innovation some specifications may be changed without notification.
 - Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
 - Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).
 - Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.
 - Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
 - Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
 - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.
- * : For combined with Multi F/FDX system, socket provided with indoor units should be connected.

3. Dimensions

3.1 Dimensional Drawings

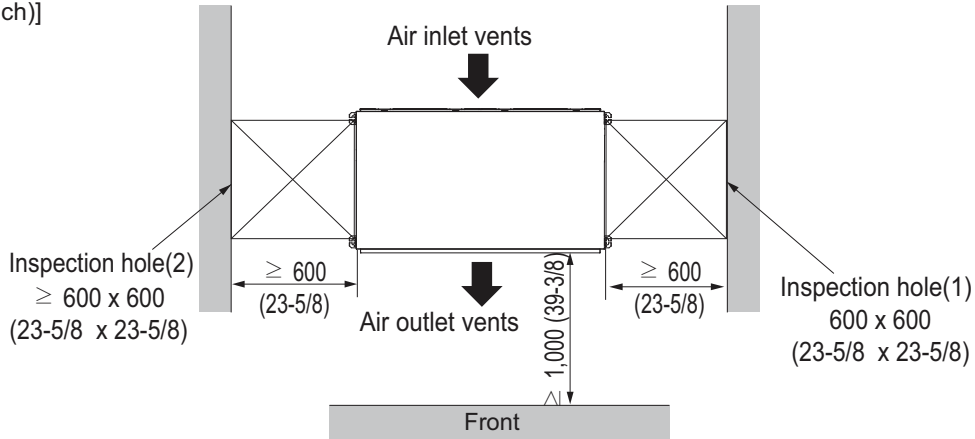
AMNW18GM1A0 / AMNW24GM1A0



3. Dimensions

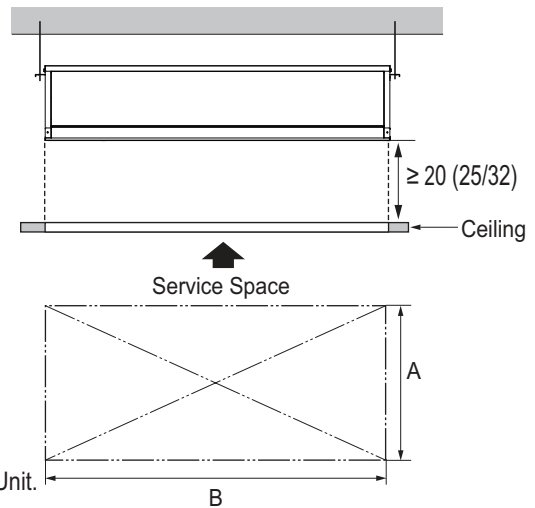
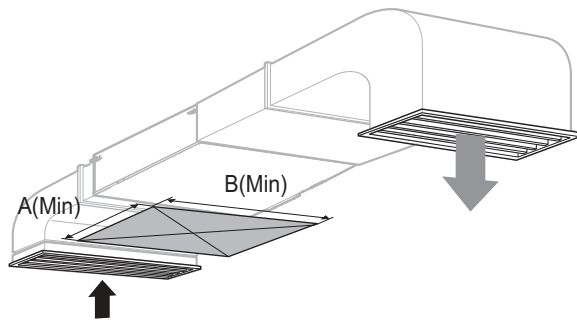
3.2 Installation Space

Top view
[Unit: mm(inch)]



* If distance between false ceiling and actual ceiling is more than 100cm (39-3/8 inch), the number of inspection hole could be decreased to 1. But if that is less than 20cm (7-7/8 inch), the hole size should be more than size of Indoor Unit.

Front view
[Unit: mm(inch)]



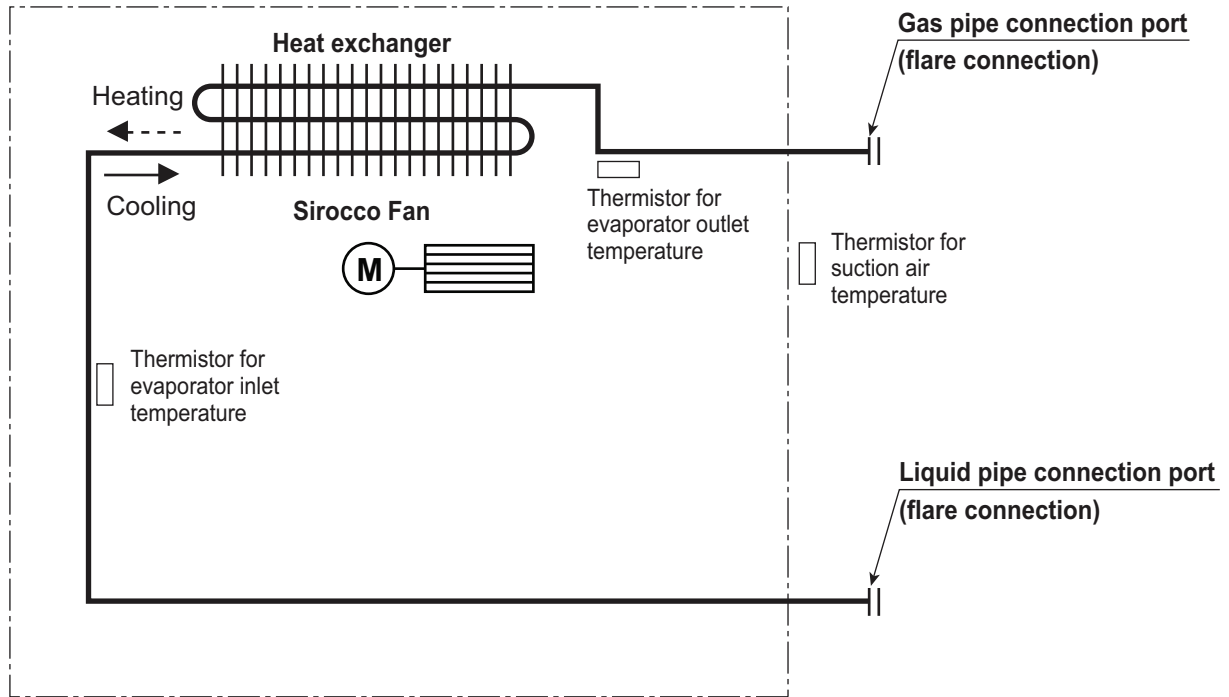
* If distance between false ceiling and actual ceiling is less than 20cm (7-7/8 inch), the hole size should be more than size of Indoor Unit.

* These figures are representative. Actual appearance of indoor unit may be different but clearances will stay the same.

Note

- Places where products are installed should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- According to type of indoor unit, external appearance or installed structure could be different.
- According to product type, model line up, sales region..etc, applicability of each chassis could be different.
- Install certainly the decoration panel. Cool air leakage causes sweating or falling of water-drops.

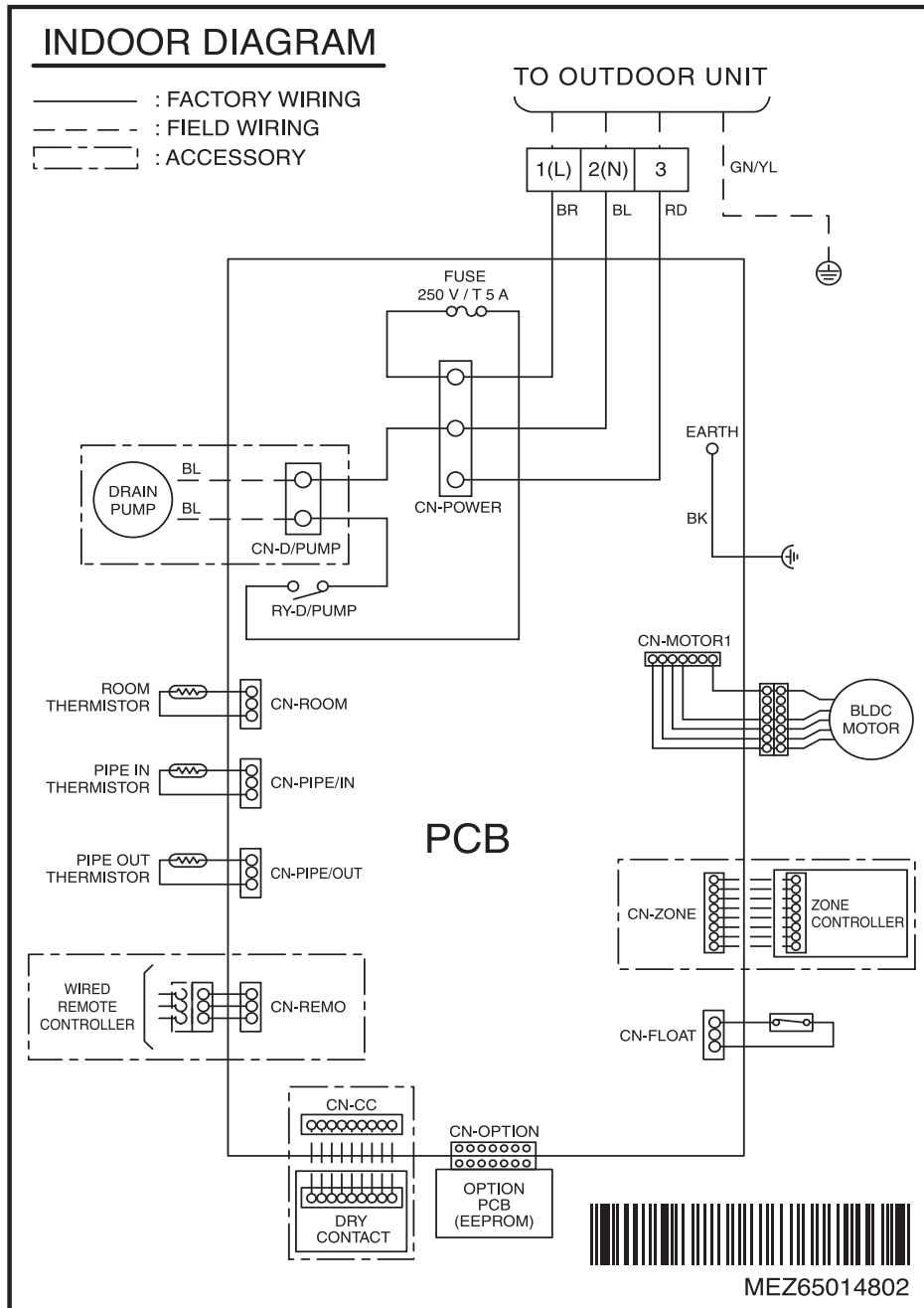
4. Piping diagrams



Description	PCB Connector
Thermistor for suction air temperature	CN-ROOM
Thermistor for evaporator inlet temperature	CN-PIPE / IN
Thermistor for evaporator outlet temperature	CN-PIPE / OUT

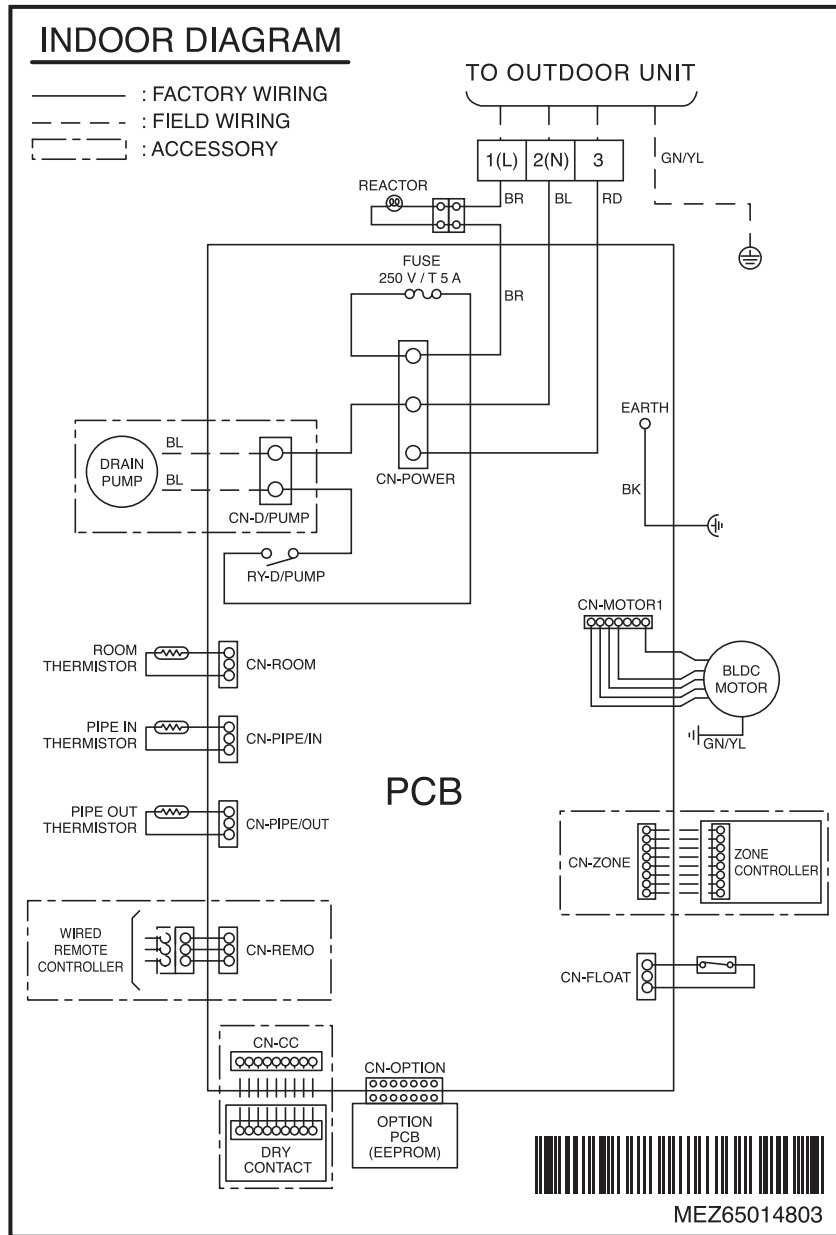
5. Wiring Diagrams

Model : AMNW18GM1A0



5. Wiring Diagrams

■ Model : AMNW24GM1A0



6. External Static Pressure & Air Flow

■ Table 1

Model	Step	CMM	Static Pressure[mmAq(Pa)]										
			2(20)	2.5(25)	3(29)	4(39)	6(59)*	8(78)	10(98)	12(118)	13(127)	14(137)	15(147)
			Setting Value										
			32:01	32:02	32:03	32:04	32:05	32:06	32:07	32:08	32:09	32:10	32:11
AMNW18GM1A0	LOW	13.0	74	76	79	85	93	103	111	117	120	125	128
	MID	14.5	79	81	84	89	97	107	114	121	125	128	131
	HIGH	16.5	85	87	90	94	103	110	118	125	128	131	134
AMNW24GM1A0	LOW	14.5	79	81	84	89	97	107	114	121	125	128	131
	MID	16.5	85	87	90	94	103	110	118	125	128	131	134
	HIGH	18.0	90	92	95	99	108	115	122	129	132	135	138

Note

1. Be sure to set the value referring table. Unexpected set value will cause mal-function.
2. * is External Static Pressure value applied on Factory Set Mode for each Model.
3. Refer to the installation manual included with the how to divide in 11 steps for setting.

- If it is zero static pressure, please set value below Maximum value.

Model	Maximum value
AMNW18GM1A0	115
AMNW24GM1A0	

6. External Static Pressure & Air Flow

■ Table 2

◆ AMNW18GM1A0, AMNW24GM1A0

Setting value	Static Pressure (mmAq(Pa))							
	2.5(25)	4(39)	6(59)	8(78)	10(98)	12(118)	14(137)	15(147)
	Air Flow Rate [m ³ /min]							
700	11.3	-	-	-	-	-	-	-
750	12.8	-	-	-	-	-	-	-
800	14.4	11.4	-	-	-	-	-	-
850	15.9	13.2	10.2	-	-	-	-	-
900	17.5	15.0	12.0	-	-	-	-	-
950	19.0	16.7	13.7	10.7	-	-	-	-
1000	20.6	18.5	15.5	12.5	-	-	-	-
1050	22.1	20.3	17.3	14.3	11.1	-	-	-
1100	23.7	22.1	19.0	16.1	13.1	10.0	-	-
1150	-	23.8	20.8	17.9	15.1	12.2	-	-
1200	-	-	22.6	19.7	17.1	14.3	11.3	-
1250	-	-	-	21.5	19.1	16.5	13.6	11.9
1300	-	-	-	23.3	21.2	18.7	15.8	14.3
1350	-	-	-	-	23.2	20.8	18.0	16.7
1400	-	-	-	-	-	23.0	20.3	19.1
1450	-	-	-	-	-	-	22.5	21.5
1500	-	-	-	-	-	-	-	23.8

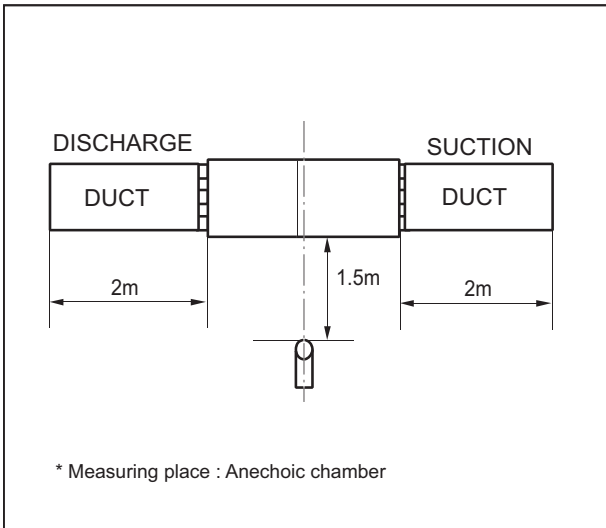
Note

1. The above table shows the correlation between the air rates and E.S.P.
2. The set value of the remote controller is proportional to the RPM of the blower and can be changed by the wired remote controller operation. For more information on how to change it, refer to the manual included with the remote controller or product.
3. The above table shows the available E.S.P range. If the E.S.P values of the installed indoor system is less or more than mentioned in the table, indoor components could be failed and performance would be decreased.
4. Refer to the installation manual included with the how to set E.S.P.

7. Sound levels

7.1 Sound pressure level

Overall



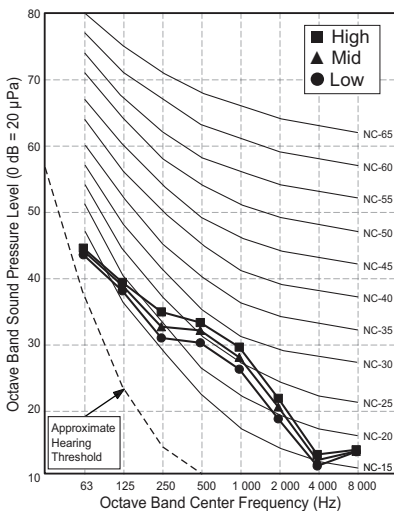
Note

1. Sound measured at some distance away from the center of the unit.
2. Data is valid at free field condition.
3. Reference acoustic pressure 0dB = 20μPa.
4. Data is valid at nominal operation condition. Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
5. Sound levels can be increased in accordance with installation and operating conditions. (Static pressure mode, used air guide, Room target temperature setting, etc)
6. Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
7. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.

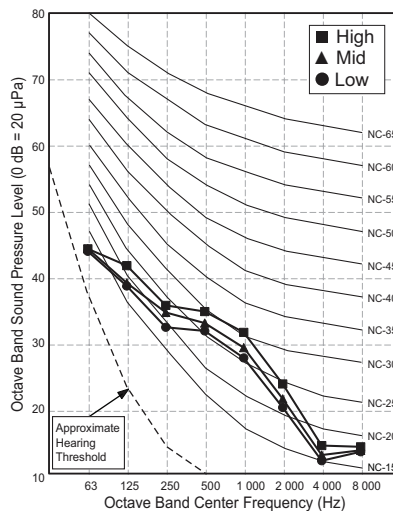
Model	Sound Pressure Levels (dB(A),H-M-L)				
	External Static Pressure [mmAq(Pa)]				
	2.5(25)	5(49)	7(69)	10(98)	15(147)
AMNW18GM1A0	34-32-30	35-33-32	36-35-34	38-37-36	40-39-38
AMNW24GM1A0	35-34-32	36-35-34	37-36-35	39-38-37	41-40-39

External Static Pressure 2.5(25) [mmAq(Pa)]

AMNW18GM1A0



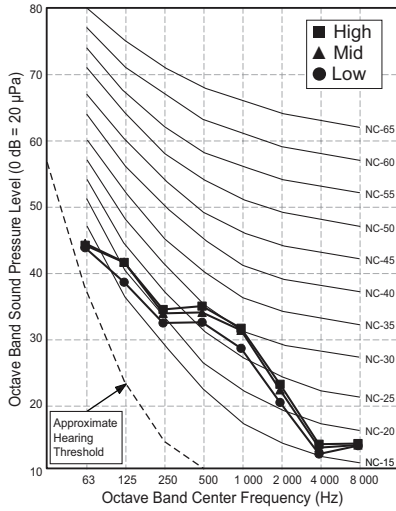
AMNW24GM1A0



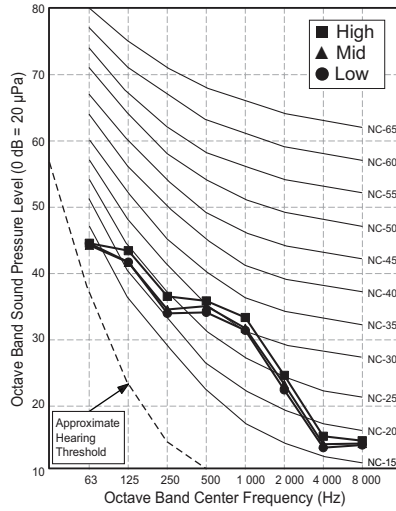
7. Sound levels

◆ External Static Pressure 5(49) [mmAq(Pa)]

AMNW18GM1A0

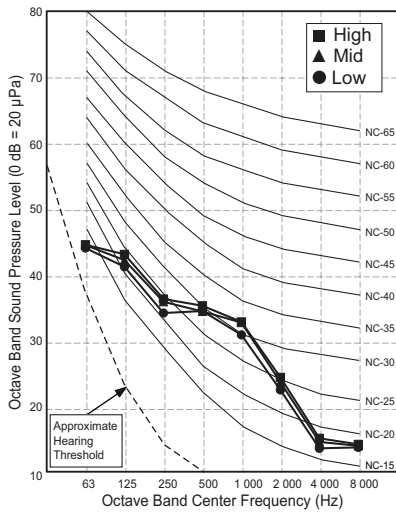


AMNW24GM1A0

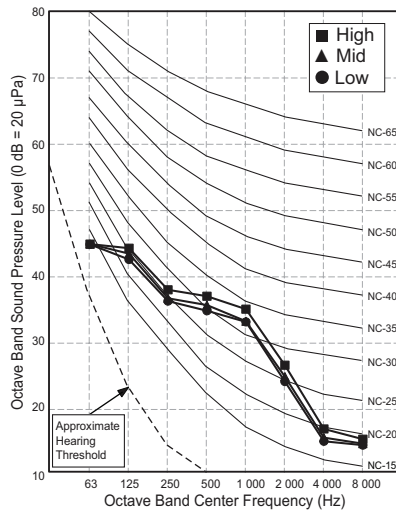


◆ External Static Pressure 7(69) [mmAq(Pa)]

AMNW18GM1A0



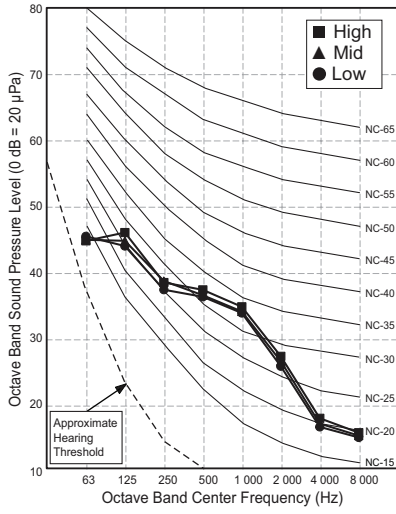
AMNW24GM1A0



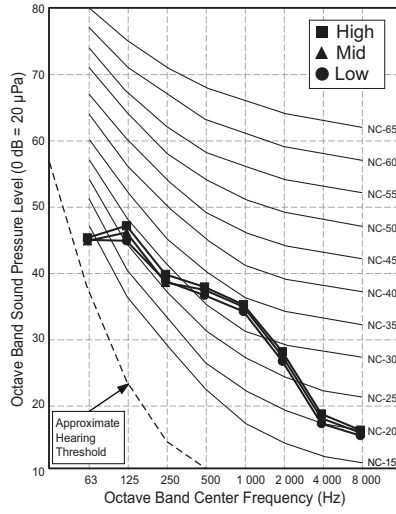
7. Sound levels

◆ External Static Pressure 10(98) [mmAq(Pa)]

AMNW18GM1A0

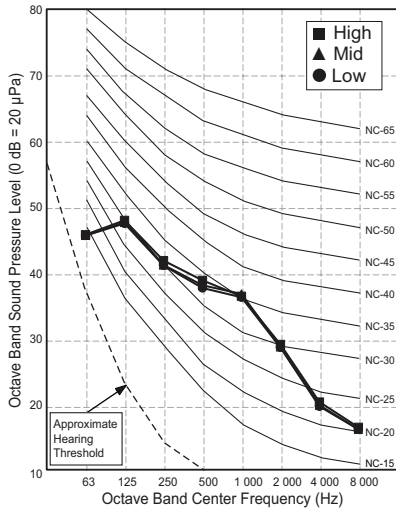


AMNW24GM1A0

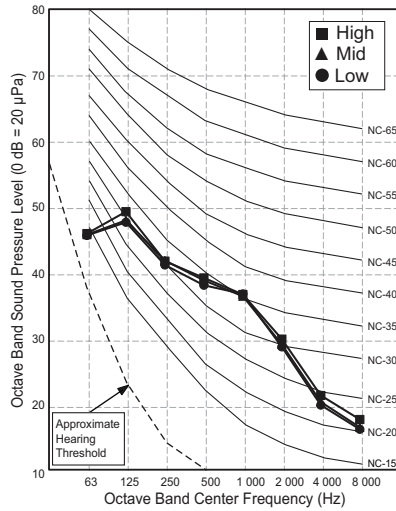


◆ External Static Pressure 15(147) [mmAq(Pa)]

AMNW18GM1A0



AMNW24GM1A0



7. Sound levels

7.2 Sound power level

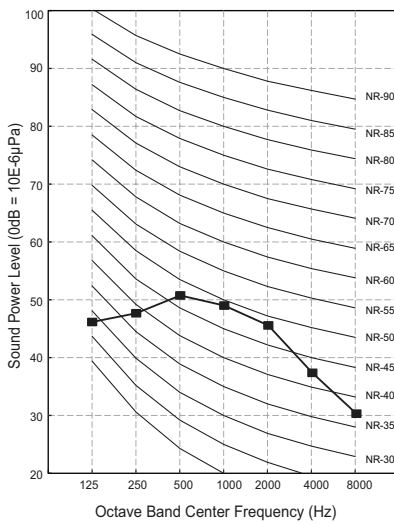
Note

- Data is valid at diffuse field condition
- Data is valid at nominal operating condition
- Sound level can be increased in static pressure mode or used air guide.
- Sound power level is measured on the rated condition in the reverberation rooms.
- Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.
- Reference acoustic intensity 0dB = $10E-6\mu W/m^2$
- Sound power level is measured on the rated condition in the reverberation rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.

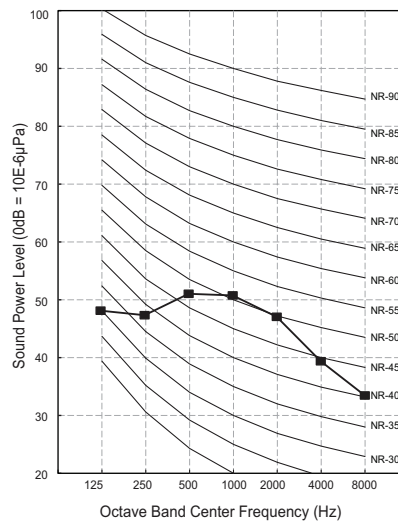
Model	Sound Pressure Levels (dB(A),H-M-L)
	External Static Pressure [mmAq(Pa)]
	2.5(25)
AMNW18GM1A0	59
AMNW24GM1A0	60

◆ External Static Pressure 2.5(25) [mmAq(Pa)]

AMNW18GM1A0

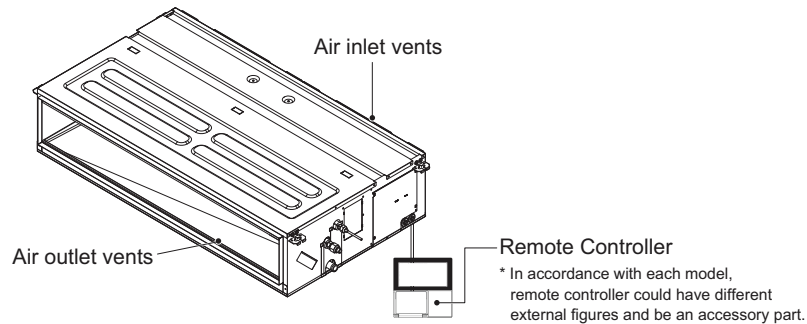


AMNW24GM1A0



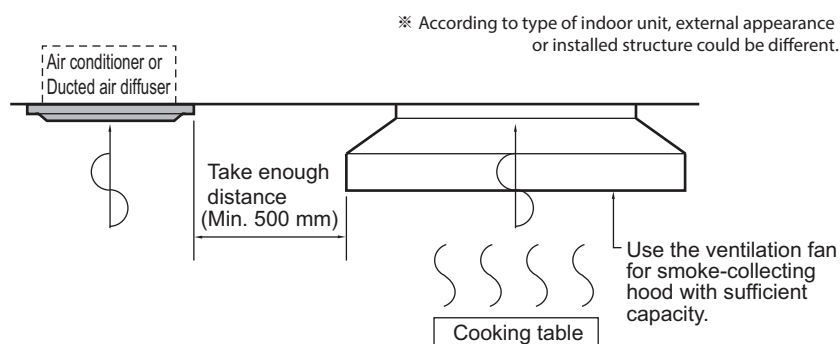
8. Installation

- Please read the instruction sheets completely before installing the product.
- When the power cord is damaged, replacement work shall be performed by authorized personnel only.
- Installation work must be performed in accordance with the national wiring standards.
- Teach the customer the operation and maintenance procedures, using the operation manual. (air filter cleaning, temperature control, etc.)



8.1 Selection of the best location

- The unit must be installed indoor area.
- Do not install the unit near the door.
- There should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- The place where the indoor unit can be connected with outdoor unit easily.
- The place where the unit is leveled.
- The place shall allow easy water drainage.
- The place where bear a load exceeding four times of the indoor unit weight.
- The mounting ceiling or wall should be solid enough to protect it from the vibration.
- The place where the unit is not affected by an electrical noise.
- The place where noise prevention is taken into consideration.
- The place where the maintenance space for product is sufficient. (The servicing inspection hole of the ceiling should be larger than the indoor unit.)
- The selection of the servicing inspection hole should be approved by the customer.
- There should not be any heat source or steam near the unit. Avoid the following installation location.
 1. Such places as restaurants and kitchen where considerable amount of oil steam and flour is generated. These may cause heat exchange efficiency reduction, or water drops, drain pump mal-function. In these cases, take the following actions;
 - Make sure that ventilation fan is enough to cover all noxious gases from this place.
 - Ensure enough distance from the cooking room to install the air conditioner in such a place where it may not suck oily steam.



8. Installation

2. Avoid installing air conditioner in such places where cooking oil or iron powder is generated.
3. Avoid places where inflammable gas is generated.
4. Avoid place where noxious gas is generated.
5. Avoid places near high frequency generators.

CAUTION

- If the temperature rise above 30 °C or the humidity rise above RH 80%, the dew-protective kit should be equipped or use additional insulation to the indoor unit body.
 - "Dew Protective kit" is sold separately.
 - Use the glass wool material or polyethylene foam and it make sure to be thick of 10mm at least.

◆ Inspection Hole Standard

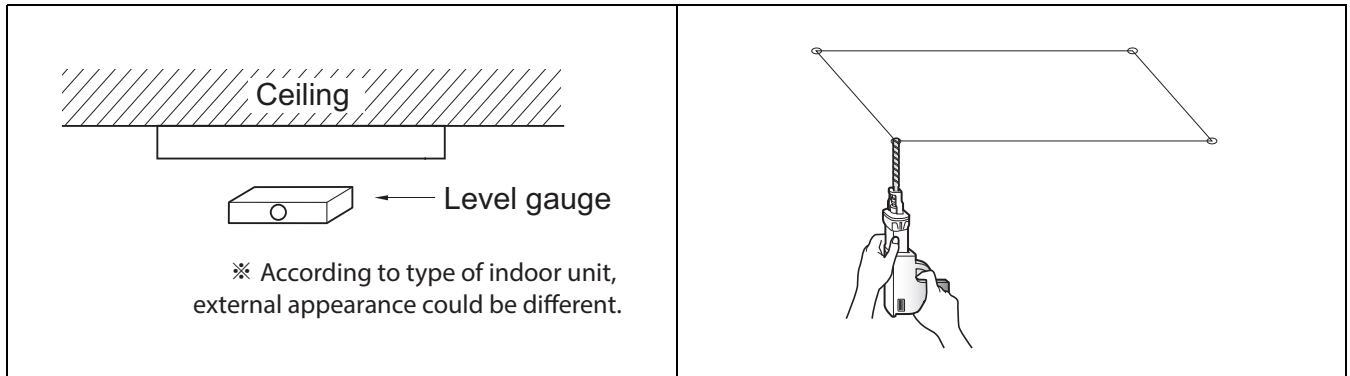
Distance between false ceiling & actual ceiling	Number of in spection hole	Remarks
More than 100cm	1	Sufficient space in the ceiling for servicing.
20cm to 100cm	2	Insufficient space. Difficult for servicing
Less than 20cm	Hole size should be more than the size of IDU.	Minimum height for motor replacement.

8. Installation

8.2 Ceiling dimension and hanging bolt location

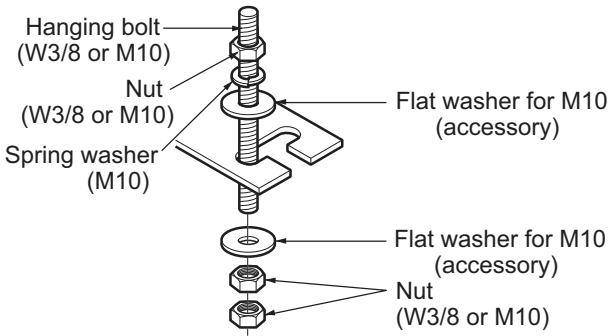
⚠ CAUTION

- During the installation, care should be taken not to damage electric wires.
- In case of using a drain pump, install the unit horizontally using a level gauge.



1. The dimensions of the paper model for installation are the same as those of the ceiling opening dimensions.
2. Select and mark the position for fixing bolts and piping hole.
3. Decide the position for fixing bolts slightly tilted to the drain direction after considering the direction of drain hose.
4. Drill the hole for anchor bolt on the wall or ceiling.
 - Insert the set anchor and washer onto the suspension bolts for locking the suspension bolts on the ceiling.
 - Mount the suspension bolts to the set anchor firmly.
 - Secure the installation plates onto the suspension bolts (adjust level roughly) using nuts, washers and spring washers.
5. In case of ducted type unit, apply a joint-canvas between the unit and duct to absorb unnecessary vibration.

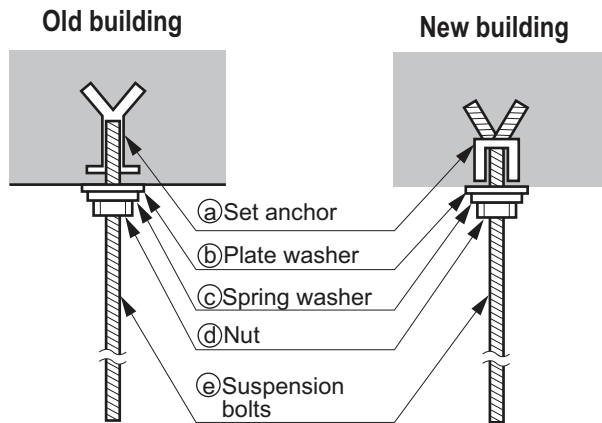
8. Installation



- The following parts are local purchasing.
 1. Hanging bolt - W 3/8 or M10
 2. Nut - W 3/8 or M10
 3. Spring washer - M10
 4. Plate washer - M10

CAUTION

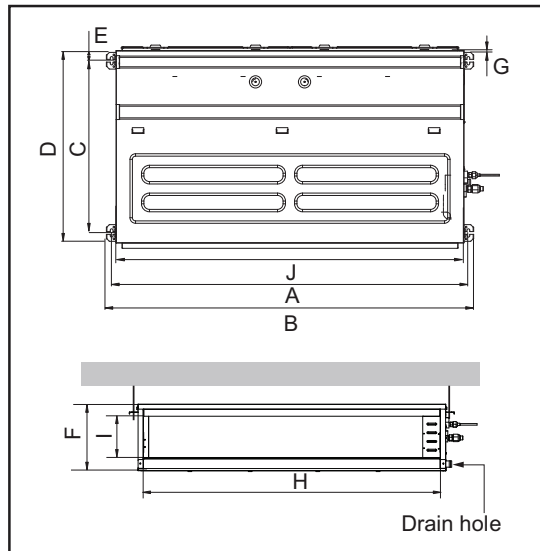
- Tighten the nut and bolt to prevent the unit from falling.
- When mechanical connectors are reused indoors, sealing parts shall be renewed. (for R32)
- When flared joints are reused indoors, the flare part shall be re-fabricated. (for R32)



Installation dimension of Indoor unit

M1/M2/M3 Chassis

* According to product type, model line up, sales region...etc, applicability of each chassis could be different.



Chassis name	Dimension (mm)									
	A	B	C	D	E	F	G	H	I	J
M1	933.4	971.6	619.2	691	30	270	15.2	858	201.4	900
M2	1,283.4	1,321.6	619.2	691	30	270	15.2	1,208	201.4	1,250
M3	1,283.4	1,321.6	619.2	691	30	360	15.2	1,208	291.4	1,250

8. Installation

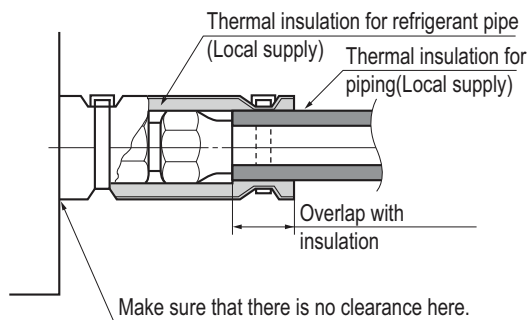
8.3 Connecting pipes to the indoor unit

■ Refrigerant piping work

To detail information for connecting the refrigerant pipes, please refer to the installation manual included with product.

■ Piping insulation work

- Perform heat insulation work completely on both gas and the liquid pipe. Because improper insulation will result condensate formation over pipe.
- Use the heat insulation material for the refrigerant piping which has an excellent heat resistance (over 120°C (248°F)).
- Precautions in high humidity circumstance
 - This air conditioner has been tested according to the "KS Conditions" and confirmed.
 - If it is operated for a long time in high humid atmosphere (dew point temperature: more than 23°C(73°F)), water drops are liable to fall. In this case, add heat insulation material according to the following procedure.



- Heat insulation material : Adiabatic glass wool with thickness of 10~20mm(13/32 ~13/16 inch).
- Stick glass wool on all air conditioners that are located in ceiling atmosphere.

⚠ CAUTION

- Make sure to insulate any field piping all the way to the piping connection inside the unit. Any exposed piping may cause condensation or burns if touched.

8. Installation

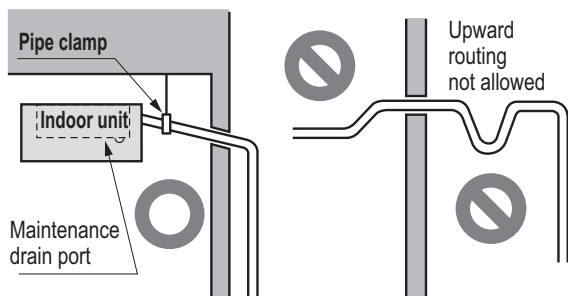
8.4 Indoor Unit Drain Piping

Important

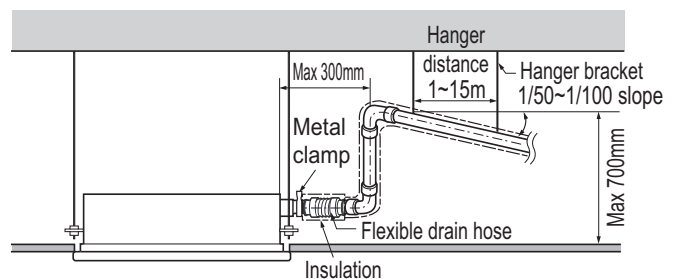
- The drain pipe should be at least equal in size to drain conduit of the indoor unit.
- The drain pipe is thermally insulated to prevent the formation of condensation inside the pipe.
- The drain up mechanism should be fitted before the indoor unit is installed and when the electricity has been connected a little of water should be added to the drain pan and the drain pump to check and see if it is functioning correctly.
- All connections should be secure. (Special care is needed with PVC pipe)

8.4.1 Drain piping of indoor unit with drain pump

- Drain piping must have down-slope (1/50 to 1/100). Be sure not to provide up-and-down slope to prevent reversal flow.
- During drain piping connection, be careful not to exert force on the drain port on the indoor unit.
- The outside diameter of the drain connection on the indoor unit is 32 mm (1-1/4 inch).
 - Piping material: Use the Polyvinyl chloride pipe, 25 mm (1 inch) pipe fittings.

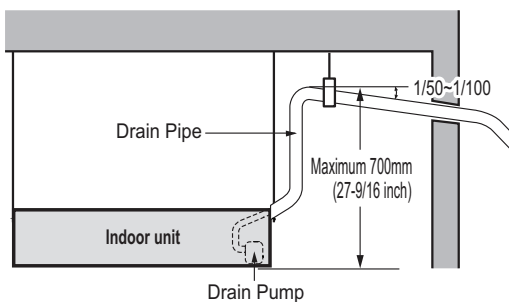


※ According to type of indoor unit, external appearance could be different.

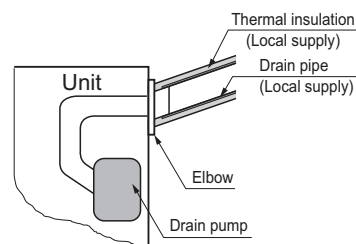


※ According to type of indoor unit, external appearance could be different.

- Possible drain head height is upto 700 mm (27-6/19 inch). So the drain head should be installed below 700 mm (27-6/19 inch).
- Be sure to install heat insulation on the drain piping.
 - Heat insulation material: Polyethylene foam with thickness more than 8 mm (5/16 inch).



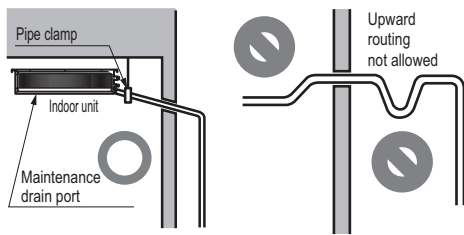
※ According to type of indoor unit, external appearance could be different.



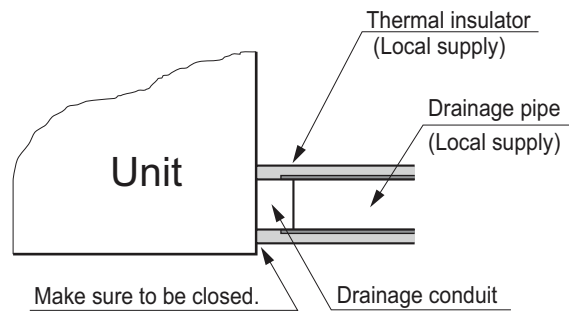
8. Installation

8.4.2 Drain pipe connection without drain pump

- Drain piping must have down-slope (1/50 to 1/100). Be sure not to provide up-and-down slope to prevent reversal flow.
- During drain piping connection, be careful not to exert force on the drain port on the indoor unit.
- The outside diameter of the drain connection on the indoor unit and drain piping fittings should be referenced from 'Specifications' of each models.
 - Piping material: Use the Polyvinyl chloride pipe.
- Be sure to install heat insulation on the drain piping.
 - Heat insulation material: Polyethylene foam with thickness more than 8 mm (5/16 inch).



* U-trap is not required for low static model in which the external static pressure is below 50 pa(5mm Aq)



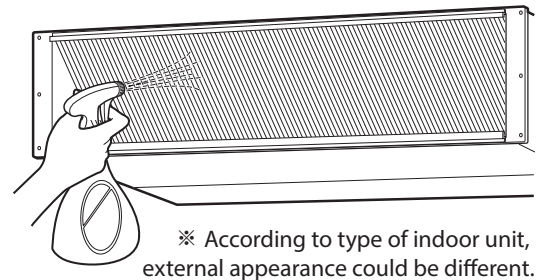
8. Installation

8.4.3 Method of Drainage test

◆ Drainage test of indoor unit

Use the following procedure to test the drainage.

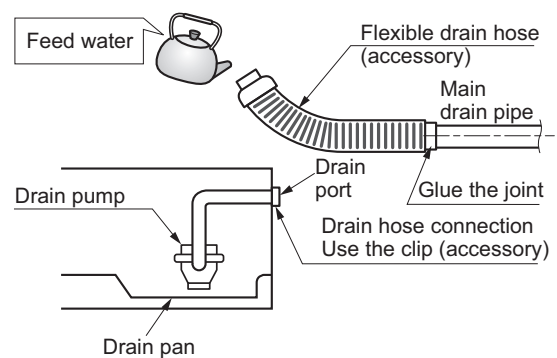
1. In case that there are air filter, remove the air filter first.
2. Spray one or two glasses of water on the evaporator.
3. Check the drainage. Ensure that water flows through drain hose of indoor unit without any leakage.



◆ Drainage test of indoor unit with drain pump

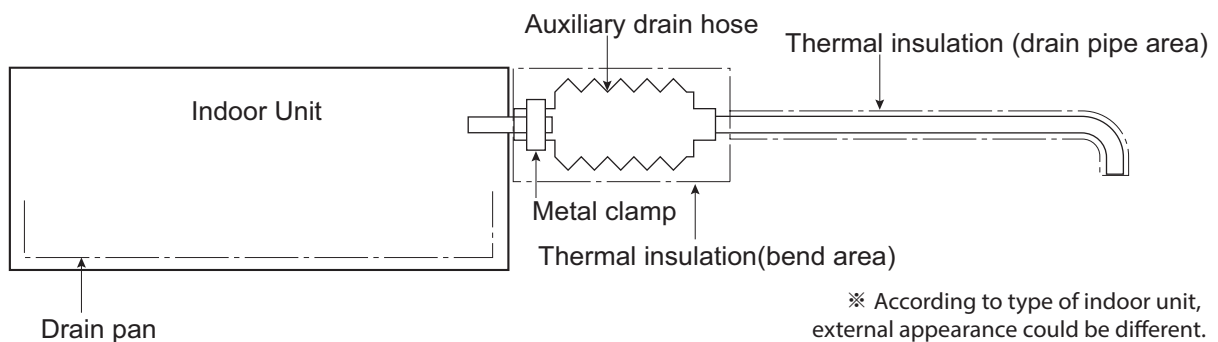
Use the following procedure to test the drain pump operation.

1. Connect the main drain pipe to the exterior and leave it provisionally until the test comes to an end.
2. Feed water to the flexible drain hose and check the piping for leakage.
3. Be sure to check the drain pump for normal operating and noise when electrical wiring is complete.
4. When the test is complete, connect the flexible drain hose to the drain port on the indoor unit.



8.4.4 Connection of an auxiliary(flexible) drain hose

- To connect drain pipe to the drain socket on the indoor unit, an auxiliary flexible drain hose should be used. auxiliary flexible drain hose allows that the drain pipe can be connected to the socket without breaking by excessive strain.



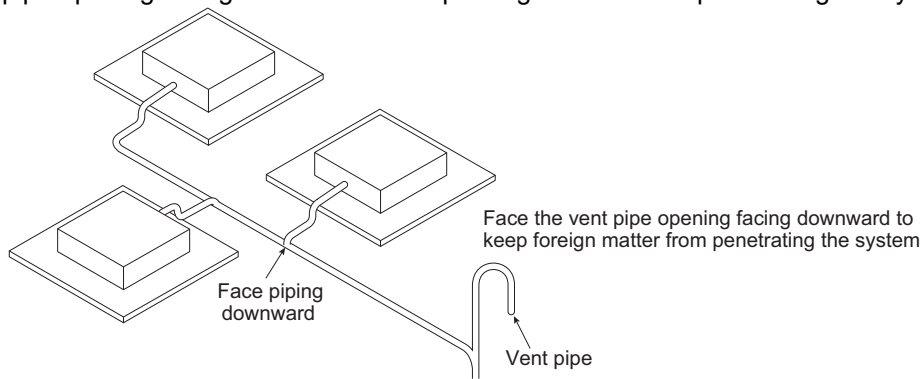
⚠ CAUTION

- The supplied flexible drain hose should not be curved, neither screwed. The curved or screwed hose may cause a leakage of water.
- It is need to insulate the auxiliary drain hose with thermal insulation material.

8. Installation

8.4.5 Ground drain piping

- It is standard work practice to make connections to the main pipe from above. The pipe down from the combination should be as large as possible.
- The pipe work should be kept as short as possible and the number of indoor units per group kept to a minimum.
- Face the vent pipe opening facing downward to keep foreign matter from penetrating the system.



8. Installation

8.5 Electric wiring work

8.5.1 General instructions

- All field supplied parts and materials, electric works must conform to local codes. Use copper wire only.
- Follow the "**WIRING DIAGRAM**" attached to the unit body to wire the outdoor unit, indoor units and the remote controller.
- All wiring must be performed by an authorized electrician.
- A circuit breaker capable of shutting down the power supply to the entire system must be installed.

CAUTION

After the confirmation of the above conditions, prepare the wiring as follows:

- Never fail to have separate power specially for the air conditioner.
 - Provide a circuit breaker switch between power source and the unit.
 - Confirm the Specification of power source.
 - Confirm that electrical capacity is sufficient.
 - Be sure that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
 - Confirm that the cable thickness is as specified in the power sources specification.
(Particularly note the relation between cable length and thickness.)
 - Do not install the leakage breaker in a place which is wet or moist.
Water or moist may cause short circuit.
 - The following troubles would be caused by voltage drop-down.
 - » Vibration of a magnetic switch, damage on the contact point there of, fuse breaking, disturbance to the normal function of a overload protection device.
 - » Proper starting power is not given to the compressor.
-

8.5.2 Wiring connection

- Connect the wires to the terminals on the control board individually according to the outdoor unit connection.
- Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively.
- In case of the system with multiple indoor units, mark each indoor unit as unit A, unit B, etc and be sure the terminal board wiring to the outdoor unit and indoor units are properly matched. If wiring and piping between the outdoor unit and an indoor unit are mismatched, the system may cause a malfunction.

8.5.3 Clamping of cables

1. Arrange 2 power cables on the control panel.
2. First, fasten the steel clamp with a screw to the inner boss of control panel.
3. For connecting of communication (transmission) cable, put the cable(or thinner cable) on the clamp and tighten it with a plastic clamp to the other boss of the control panel. In case that communication (transmission) cable is not needed to connect, fix the other side of the clamp with a screw strongly.

8. Installation

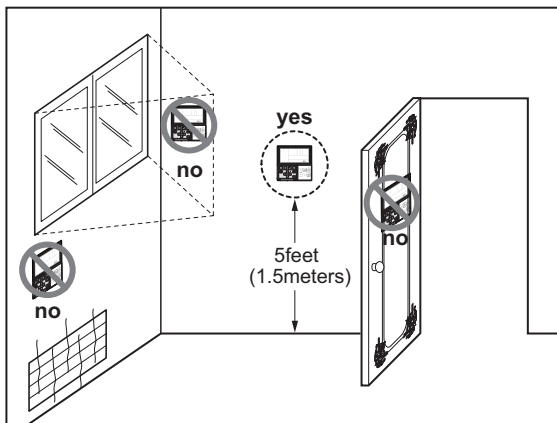
⚠ WARNING

- Make sure that the screws of the terminal are fixed tightly.
- The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could give rise to burn-out of the wires.)
- Make sure to attach the sealing material or (field supplied) to hole of wiring to prevent the infiltration of foreign particle from outside. Otherwise a short-circuit may occur inside the electric parts box.
- When clamping the wires, be sure no pressure is applied to the wire connections by using the included clamping material to make appropriate clamps. Also, when wiring, make sure the cover on the electric parts box fits snugly by arranging the wires neatly and attaching the electric parts box cover firmly. When attaching the electric parts box cover, make sure no wires get caught in the edges. Pass wiring through the wiring through holes to prevent damage to them.
- Make sure the remote controller wiring, the wiring between the units, and other electrical wiring do not pass through the same locations outside of the unit, separating them properly, otherwise electrical noise (external static) could cause product malfunction.

8.5.4 Wired Remote Controller Installation

Since the room temperature sensor is in the remote controller, the remote controller box should be installed in a place away from direct sunlight, high humidity and direct supply of cold air to maintain proper space temperature.

Install the remote controller about 5ft(1.5m) above the floor in an area with good air circulation at an average temperature.



• Do not install the remote controller where it can be affected by :

- Drafts, or dead spots behind doors and in corners.
- Hot or cold air from ducts.
- Radiant heat from sun or appliances.
- Concealed pipes and chimneys.
- Uncontrolled areas such as an outside wall behind the remote controller.
- This remote controller is equipped with a seven segment LED. display. For proper display of the remote controller LED's, the remote controller should be installed properly. (The standard height is 1.2~1.5 m from floor level.)

MULTI

Indoor Unit

Ceiling Concealed Duct - Low Static Pressure

- 1.List of functions**
- 2.Specification**
- 3.Dimensions**
- 4.Piping Diagrams**
- 5.Wiring Diagrams**
- 6.External static pressure & Air flow**
- 7.Sound levels**
- 8.Installation**

1. List of functions

◆ List of function

Category	Functions	AMNW09GL1A2 AMNW12GL2A2 AMNW18GL2A2 AMNW24GL3A2	EMNW12GL2A0 EMNW18GL2A0 EMNW24GL3A0
Air Flow	Air Supply Outlet	1	1
	Airflow Steps (fan/cool/heat)	3 / 3 / 3	3 / 3 / 3
	Fan Speed Auto*	X	X
	Power Cool/Heat	X / X	X / X
	Dry Operation	O	O
Air Purification	Air Purify	X	X
	Pre-Filter	O	O
Reliability	Hot Start	O	O
	Self Diagnosis	O	O
Convenience	Auto Mode	O	O
	Auto Dry Operation	O	O
	Auto Restart	O	O
	Child Lock*	O	O
	Group Control*	O	O
	Sleep Timer	O	O
	Turn On/Off Reservation	O	O
	Schedule*	O	O
	Two Thermistor Control*	O	O
External On/Off	O	O	
Installation	Drain Pump	O	O
	E.S.P. Control*	O	O
Special Functions	Wi-Fi	Accessory	X

Note

- O : Applied, X : Not Applied, - : Unconfirmed or irrelevant
 Embedded : A kit is provided by default for using this function when the product is manufactured.
 Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field. Accessory line-ups varies by region, so check your local catalogue or local sales material.
- Some functions can be limited by remote controller.
- Selecting a wireless remote controller in case of ducted type indoor units requires either a connection to the wired remote controller (Standard II) or an IR receiver accessory to be connected to the duct in order to receive the signal.
- 'Auto Mode' varies depending on the outdoor unit type.
 - Auto Change Over(Single Heat Pump Outdoor Unit)
 - Auto Mode Select(Multi Heat Pump Outdoor Unit)
 - Auto Intensity Control(Cooling Only Outdoor Unit)
- * : These functions need to connect the wired remote controller.

1. List of functions

◆ Accessory Compatibility List

Category		Product	Remark	AMNW09GL1A2 AMNW12GL2A2 AMNW18GL2A2 AMNW24GL3A2	EMNW12GL2A0 EMNW18GL2A0 EMNW24GL3A0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	X	X
		PWLSSB21H	Heat Pump	X	X
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O	O
		PQRCHCA0Q(W)	for Hotel	O	O
	Standard	PREMTB001	Standard II (White)	O	O
		PREMTBB01	Standard II (Black)	O	O
		PREMTB100**	Standard III (White)	O	O
Premium	PREMTA000(A/B)	Premium	O	O	
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O	O
		PDRYCB300	For 3rd Party Thermostat	O	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O	O
Gateway	IDU PI485	PHNFP14A0	Without case	X	X
		PSNFP14A0	With case	X	X
ETC	Remote temperature sensor	PQRSTA0	-	O	O
	Zone controller	ABZCA	-	O	O
	CTI (Communication transfer interface)	PKFC0	-	X	X
	CO ₂ Sensor	PES-C0RV0	For ERV, ERV DX Indoor units	X	X
	Group control wire	PZCWRCG3	0.25m	O	O
	2-Remo Control Wire	PZCWRC2	0.25m	O	O
	Extension Wire	PZCWRC1	10m	O	O
Wi-Fi Controller*	PWFMDD200	-	O	X	

Note

1. O: Possible, X: Impossible, -: Not applicable, Embedded: Included with product.
2. *: Some advanced functions controlled by individual controller cannot be operated.
3. **: It could not be operated some functions.
4. If you need more detail, please refer to the **BECON** PDB or the manual of product. (<http://partner.lge.com/global> : Home> Doc.Library> Product > Control(BECON))

2. Specifications

Model Name			Unit	AMNW09GL1A2	AMNW12GL2A2 EMNW12GL2A0
Power Supply			V, Ø, Hz	220-240, 1, 50 220, 1, 60	220-240, 1, 50 220, 1, 60
Casing				-	-
Dimensions		W x H x D	mm	700 x 190 x 700	900 x 190 x 700
Net Weight			kg	15.9	20.6
Shipping Weight			kg	20.5	25.8
Heat Exchanger	Rows x Columns x FPI			2 x 11 x 14	2 x 11 x 18
	Face Area		m ²	0.12	0.17
Fan Type				Sirocco	Sirocco
Air Flow Rate	H / M / L		m ³ /min	9.0 / 7.0 / 5.5	10.0 / 8.5 / 7.0
	H / M / L		ft ³ /min	318 / 247 / 194	353 / 300 / 247
External static pressure	High Mode_Factory Set		Pa (mmAq)	24.5 (2.5)	24.5 (2.5)
Fan Motor	Type			BLDC	BLDC
	Drive			Internal	Internal
	Output		W x No.	19 x 1	19 x 1 + 5 x 1
	Power Input	H / M / L	W	34 / 26 / 20	40 / 32 / 26
FLA (Full Load Ampere)			A	0.8	0.8
Dehumidification Rate			ℓ/h	1.11	1.11
Safety Devices				Fuse / Thermal Protector for Fan Motor	
Piping Connections	Liquid Side		mm (inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas Side		mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Drain Pipe	O.D. / I.D.	mm	Ø 32.0 / 25.0	Ø 32.0 / 25.0
Sound Pressure Level	Cooling	H / M / L	dB(A)	30 / 26 / 23	31 / 28 / 27
Power and Communication Cable (included Earth)			No. x mm ²	4C x 0.75	4C x 0.75
Note					
<ol style="list-style-type: none"> Due to our policy of innovation some specifications may be changed without notification. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741). Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity. <ul style="list-style-type: none"> Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m. 					

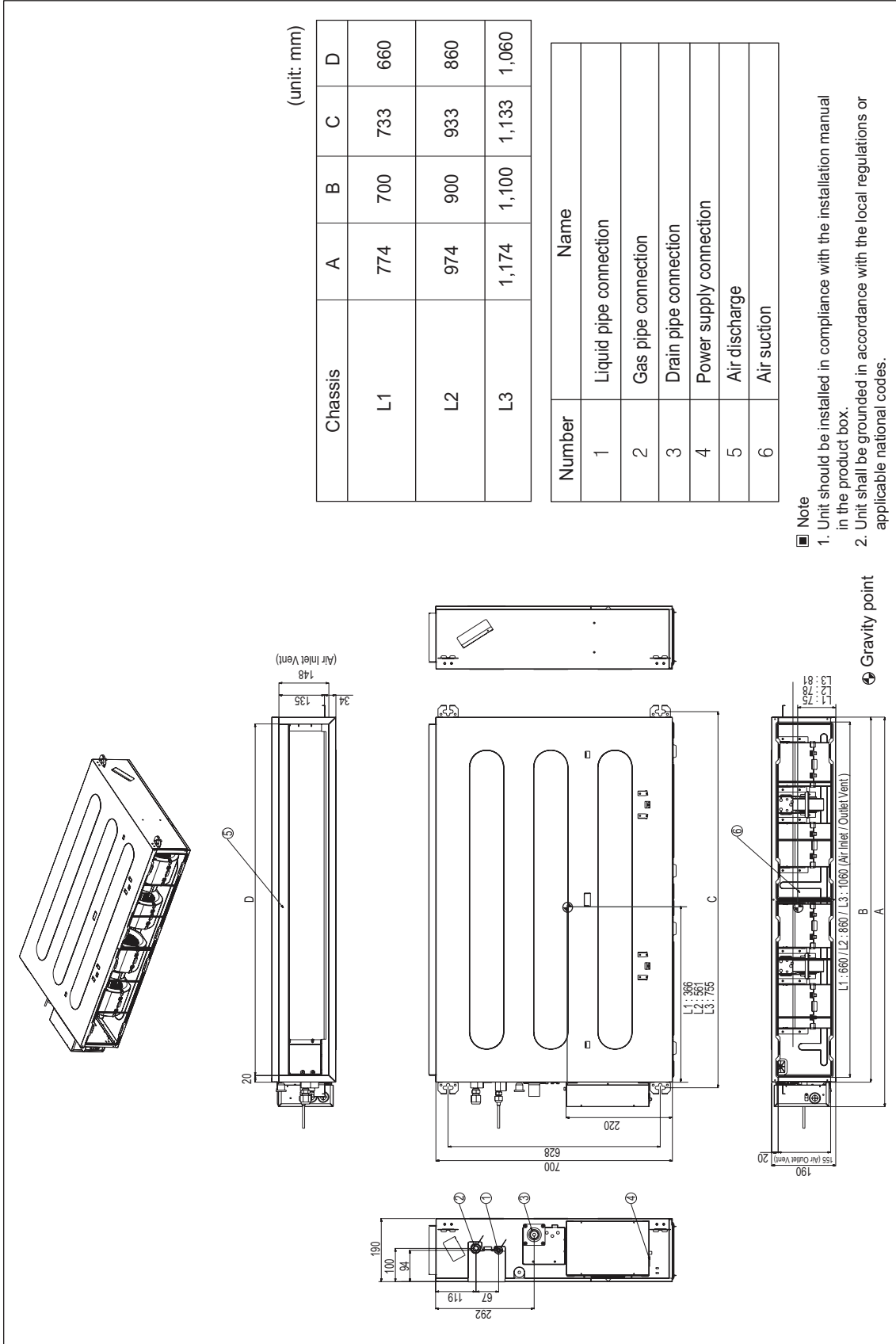
2. Specifications

Model Name			Unit	AMNW18GL2A2 EMNW18GL2A0	AMNW24GL3A2 EMNW24GL3A0
Power Supply			V, Ø, Hz	220-240, 1, 50 220, 1, 60	220-240, 1, 50 220, 1, 60
Casing				-	-
Dimensions		W x H x D	mm	900 × 190 × 700	1,100 × 190 × 700
Net Weight			kg	20.6	24.2
Shipping Weight			kg	25.8	29.9
Heat Exchanger	Rows x Columns x FPI			2 × 11 × 18	3 × 11 × 18
	Face Area		m ²	0.17	0.21
Fan Type				Sirocco	Sirocco
Air Flow Rate	H / M / L		m ³ /min	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
	H / M / L		ft ³ /min	530 / 441 / 353	706 / 565 / 424
External static pressure	High Mode_Factory Set		Pa (mmAq)	24.5 (2.5)	24.5 (2.5)
Fan Motor	Type			BLDC	BLDC
	Drive			Internal	Internal
	Output		W x No.	19 x 1 + 5 x 1	19 x 2
	Power Input	H / M / L	W	130 / 120 / 105	150 / 130 / 110
FLA (Full Load Ampere)			A	0.8	1.0
Dehumidification Rate			ℓ/h	1.58	2.65
Safety Devices				Fuse / Thermal Protector for Fan Motor	
Piping Connections	Liquid Side		mm (inch)	Ø 6.35 (1/4)*	Ø 6.35 (1/4)*
	Gas Side		mm (inch)	Ø 12.7 (1/2)*	Ø 12.7 (1/2)*
	Drain Pipe	O.D. / I.D.	mm	Ø 32.0 / 25.0	Ø 32.0 / 25.0
Sound Pressure Level	Cooling	H / M / L	dB(A)	36 / 34 / 31	39 / 35 / 32
Power and Communication Cable (included Earth)			No. x mm ²	4C x 0.75	4C x 0.75
Note					
1. Due to our policy of innovation some specifications may be changed without notification.					
2. Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.					
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation(Sound Pressure : LG Internal standard, Sound Power : EN 12102 (ISO 3741).					
4. Capacities are net capacities and based on the following conditions. Refer to the Outdoor Unit Specifications for calculating the real capacity.					
<ul style="list-style-type: none"> • Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB • Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB • Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is 0m. 					
* : For combined with Multi system, socket provided with indoor units should be connected.					

3. Dimensions

3.1 Dimensional Drawings

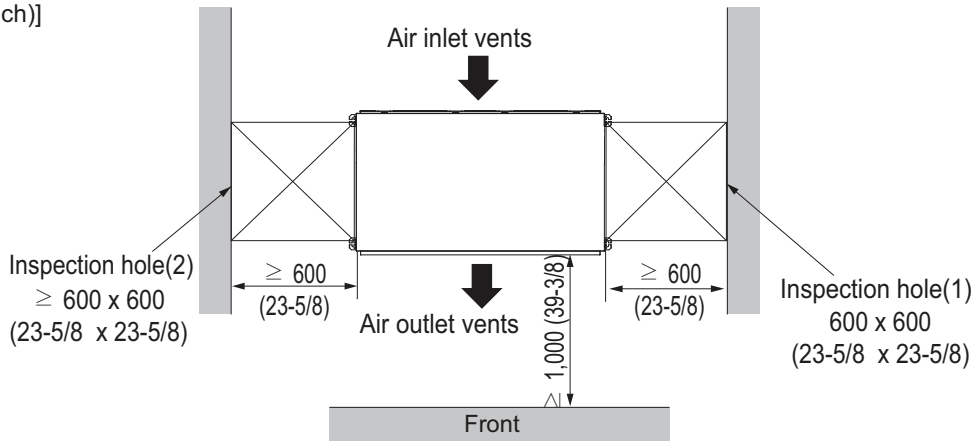
AMNW09GL1A2, AMNW12GL2A2, AMNW18GL2A2, AMNW24GL3A2, EMNW12GL2A0, EMNW18GL2A0, EMNW24GL3A0



3. Dimensions

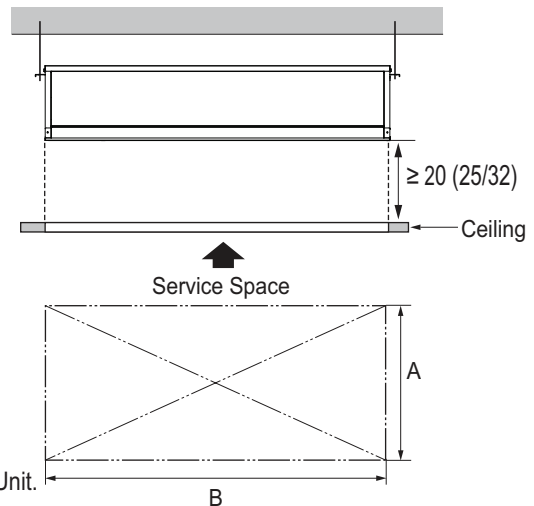
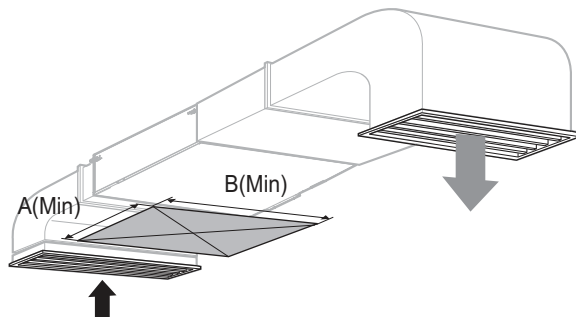
3.2 Installation Space

Top view
[Unit: mm(inch)]



* If distance between false ceiling and actual ceiling is more than 100cm (39-3/8 inch), the number of inspection hole could be decreased to 1. But if that is less than 20cm (7-7/8 inch), the hole size should be more than size of Indoor Unit.

Front view
[Unit: mm(inch)]



* If distance between false ceiling and actual ceiling is less than 20cm (7-7/8 inch), the hole size should be more than size of Indoor Unit.

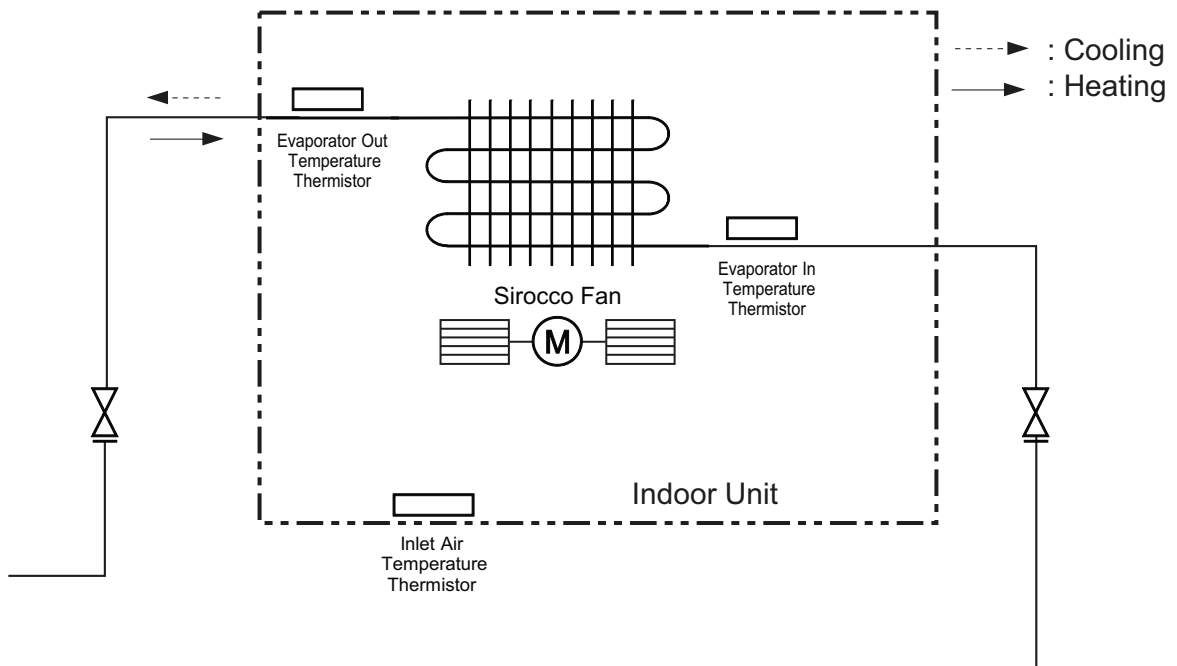
* These figures are representative. Actual appearance of indoor unit may be different but clearances will stay the same.

Note

- Places where products are installed should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- According to type of indoor unit, external appearance or installed structure could be different.
- According to product type, model line up, sales region..etc, applicability of each chassis could be different.
- Install certainly the decoration panel. Cool air leakage causes sweating or falling of water-drops.

4. Piping diagrams

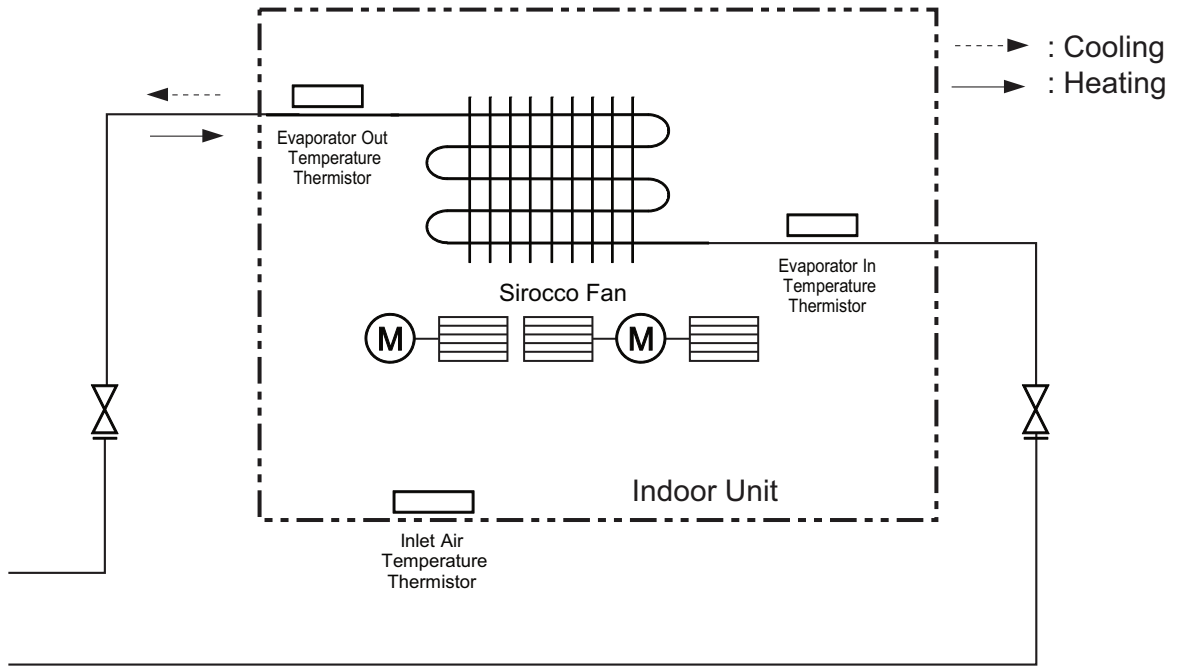
◆ L1 Chassis



Description	PCB Connector
Inlet Air Temperature Thermistor	CN-ROOM
Evaporator In Temperature Thermistor	CN-PIPE_IN
Evaporator Out Temperature Thermistor	CN-PIPE_OUT

4. Piping diagrams

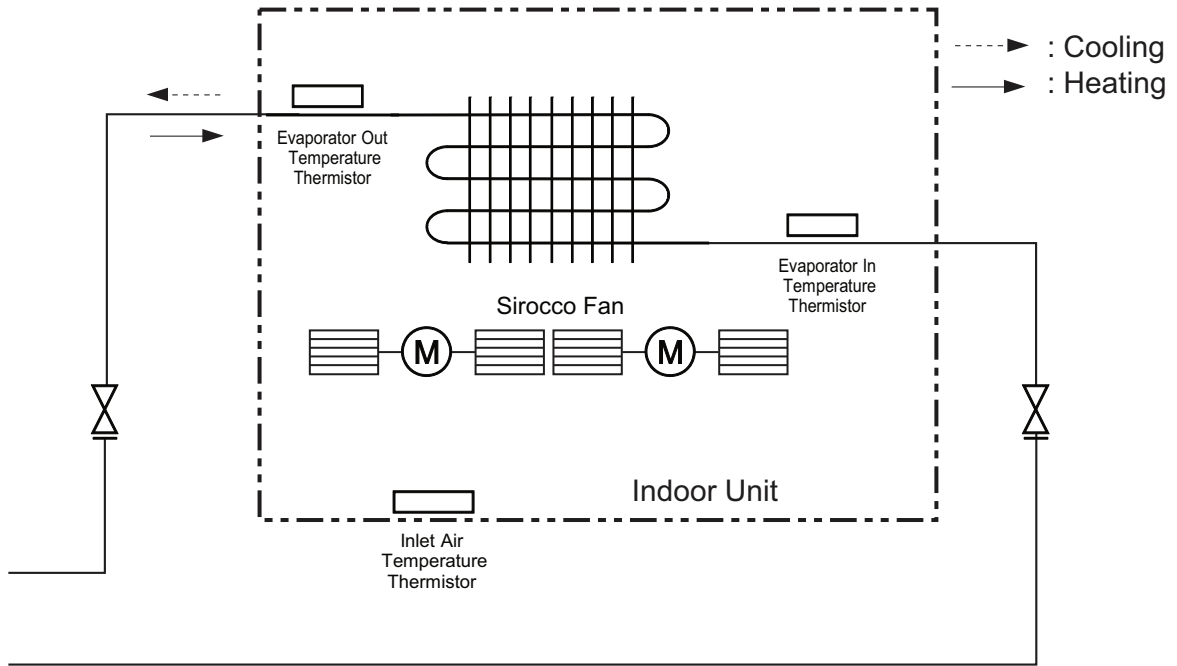
◆ L2 Chassis



Description	PCB Connector
Inlet Air Temperature Thermistor	CN-ROOM
Evaporator In Temperature Thermistor	CN-PIPE_IN
Evaporator Out Temperature Thermistor	CN-PIPE_OUT

4. Piping diagrams

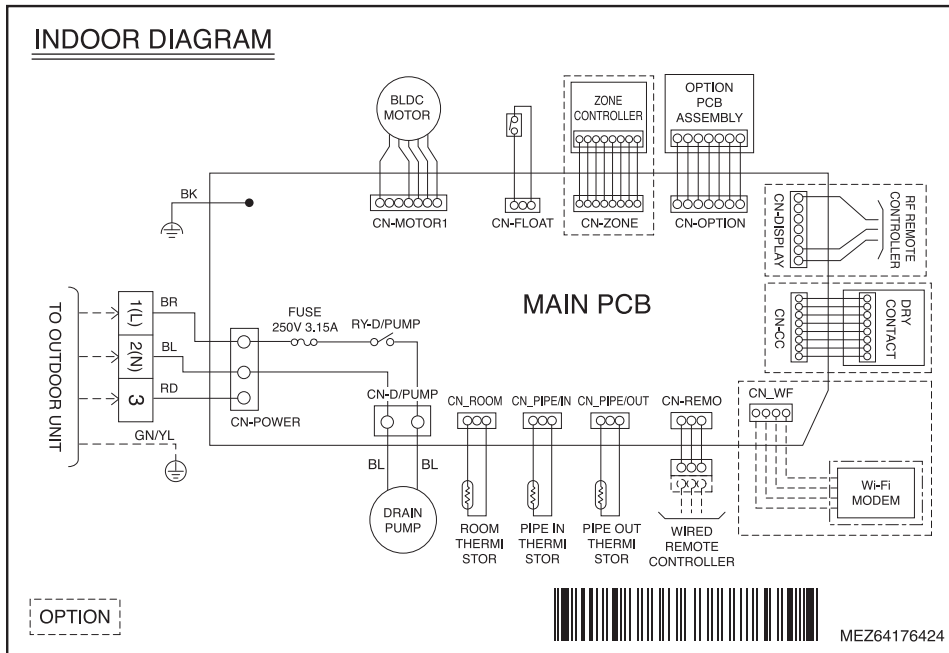
◆ L3 Chassis



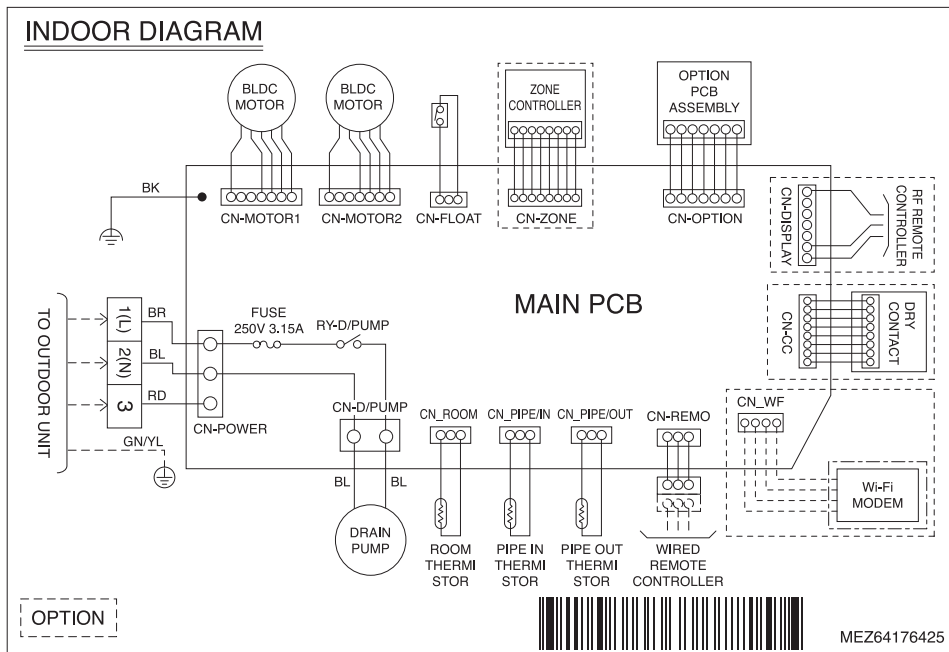
Description	PCB Connector
Inlet Air Temperature Thermistor	CN-ROOM
Evaporator In Temperature Thermistor	CN-PIPE_IN
Evaporator Out Temperature Thermistor	CN-PIPE_OUT

5. Wiring Diagrams

Models: AMNW09GL1A2

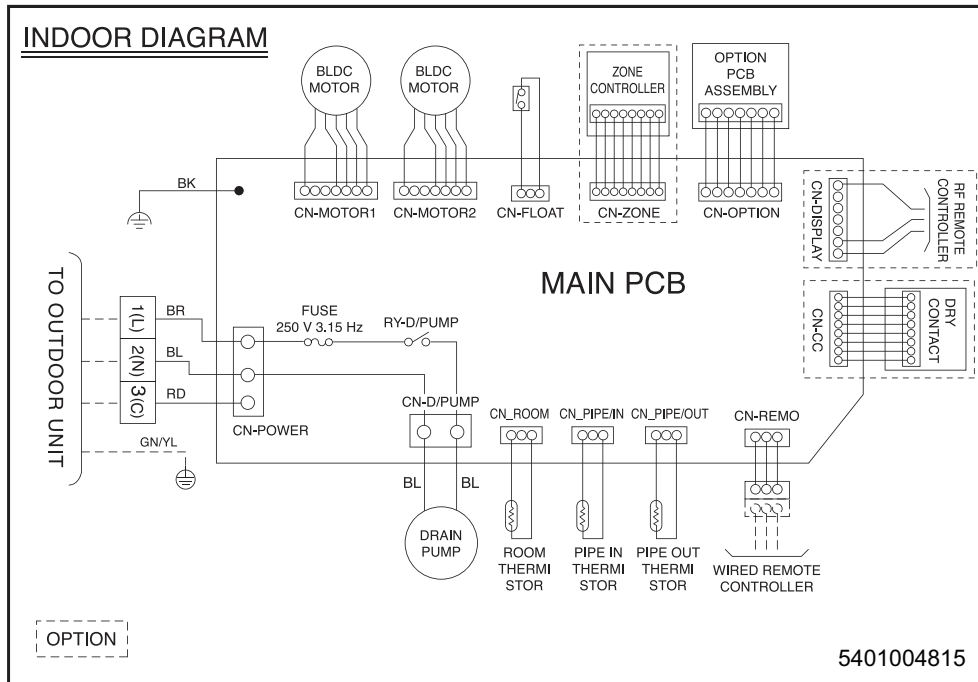


Models: AMNW12GL2A2 / AMNW18GL2A2 / AMNW24GL3A2



5. Wiring Diagrams

Models: EMNW12GL2A0 / EMNW18GL2A0 / EMNW24GL3A0



6. External Static Pressure & Air Flow

◆ AMNW09GL1A2

Setting Value	Static Pressure [mmAq(Pa)]					
	0 (0)	1 (10)	2 (20)	3 (30)	4 (40)	5 (50)
	Air Flow Rate [m ³ /min]					
60	-	-	-	-	-	-
65	5.03	-	-	-	-	-
70	5.60	4.85	-	-	-	-
75	6.19	5.44	4.57	-	-	-
80	6.79	6.05	5.17	-	-	-
85	7.41	6.67	5.80	4.80	-	-
90	8.05	7.31	6.43	5.44	-	-
95	8.71	7.96	7.09	6.09	4.97	-
100	9.38	8.63	7.76	6.76	5.64	-
105	10.07	9.32	8.45	7.45	6.33	5.08
110	-	10.03	9.16	8.16	7.04	5.79
115	-	-	9.88	8.88	7.76	6.51
120	-	-	-	9.62	8.50	7.25
125	-	-	-	10.38	9.26	8.01
130	-	-	-	-	10.03	8.78

Note

- The above table shows the correlation between the air rates and E.S.P.
- The set value of the remote controller is proportional to the RPM of the blower and can be changed by the wired remote controller operation. For more information on how to change it, refer to the manual included with the remote controller or product.
- The above table shows the available E.S.P range. If the E.S.P values of the installed indoor system is less or more than mentioned in the table, indoor components could be failed and performance would be decreased.
- Refer to the installation manual included with the how to set E.S.P.

◆ AMNW12GL2A2 / AMNW18GL2A2 / EMNW12GL2A0 / EMNW18GL2A0

Setting Value	Static Pressure [mmAq(Pa)]					
	0 (0)	1 (10)	2 (20)	3 (30)	4 (40)	5 (50)
	Air Flow Rate [m ³ /min]					
75	6.50	-	-	-	-	-
80	7.34	6.70	-	-	-	-
85	8.20	7.55	6.69	-	-	-
90	9.07	8.43	7.56	6.47	-	-
95	9.96	9.32	8.45	7.36	-	-
100	10.87	10.22	9.36	8.27	6.96	-
105	11.79	11.15	10.28	9.19	7.89	6.35
110	12.73	12.09	11.22	10.14	8.83	7.30
115	13.69	13.05	12.18	11.09	9.78	8.25
120	14.67	14.02	13.16	12.07	10.76	9.23
125	15.66	15.01	14.15	13.06	11.75	10.22
130	16.67	16.02	15.16	14.07	12.76	11.23
135	-	-	16.18	15.10	13.79	12.26
140	-	-	-	16.14	14.83	13.30
145	-	-	-	-	15.89	14.36

Note

- The above table shows the correlation between the air rates and E.S.P.
- The set value of the remote controller is proportional to the RPM of the blower and can be changed by the wired remote controller operation. For more information on how to change it, refer to the manual included with the remote controller or product.
- The above table shows the available E.S.P range. If the E.S.P values of the installed indoor system is less or more than mentioned in the table, indoor components could be failed and performance would be decreased.
- Refer to the installation manual included with the how to set E.S.P.

6. External Static Pressure & Air Flow

◆ AMNW24GL3A2 / EMNW24GL3A0

Setting Value	Static Pressure [mmAq(Pa)]					
	0 (0)	1 (10)	2 (20)	3 (30)	4 (40)	5 (50)
	Air Flow Rate [m ³ /min]					
85	10.19	-	-	-	-	-
90	12.18	10.71	11.09	-	-	-
95	13.81	12.34	12.19	-	-	-
100	15.16	13.69	13.38	10.71	-	-
105	16.30	14.83	14.36	11.85	-	-
110	17.31	15.85	15.23	12.86	10.97	-
115	18.27	16.80	16.07	13.82	11.93	-
120	19.26	17.79	16.93	14.80	12.91	10.49
125	20.34	18.87	17.89	15.88	13.99	11.57
130	21.60	20.13	19.01	17.14	15.25	12.83
135	-	21.64	20.36	18.66	16.76	14.35
140	-	-	22.01	20.50	18.61	16.19
145	-	-	-	22.75	20.86	18.44

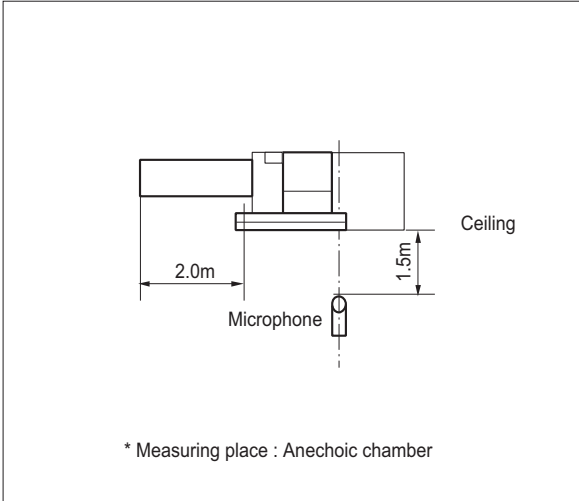
Note

1. The above table shows the correlation between the air rates and E.S.P.
2. The set value of the remote controller is proportional to the RPM of the blower and can be changed by the wired remote controller operation. For more information on how to change it, refer to the manual included with the remote controller or product.
3. The above table shows the available E.S.P range. If the E.S.P values of the installed indoor system is less or more than mentioned in the table, indoor components could be failed and performance would be decreased.
4. Refer to the installation manual included with the how to set E.S.P.

7. Sound levels

7.1 Sound pressure level

Overall

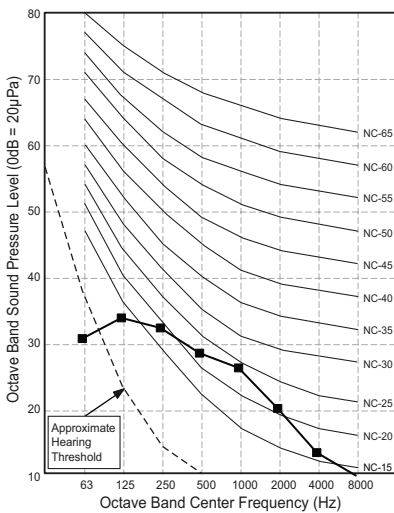


Note

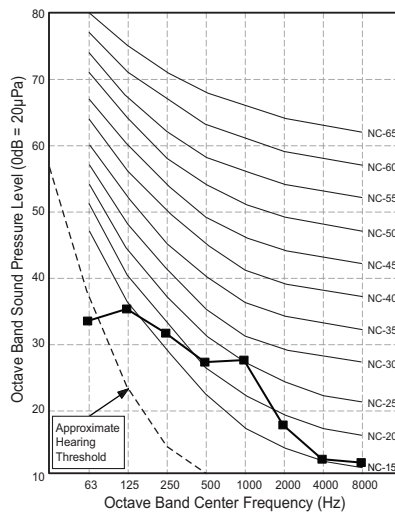
1. Sound measured at some distance away from the center of the unit.
2. Data is valid at free field condition.
3. Reference acoustic pressure 0dB = 20μPa.
4. Data is valid at nominal operation condition.
Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
5. Sound levels can be increased in accordance with installation and operating conditions. (Static pressure mode, used air guide, Room target temperature setting, etc)
6. Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
7. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
Therefore, these values can be increased owing to ambient conditions during operation.

Model	Sound Level [dB(A)]		
	H	M	L
AMNW09GL1A2	30	26	23
AMNW12GL2A2 EMNW12GL2A0	31	28	27
AMNW18GL2A2 EMNW18GL2A0	36	34	31
AMNW24GL3A2 EMNW24GL3A0	39	35	32

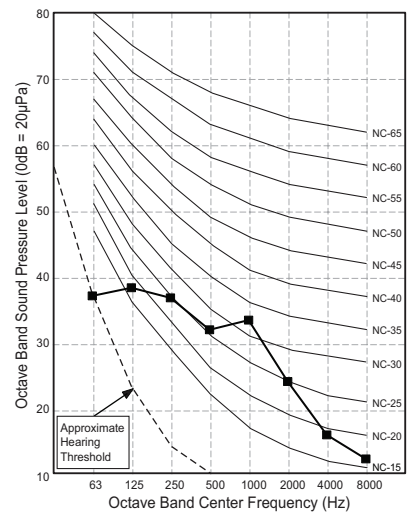
AMNW09GL1A2



**AMNW12GL2A2
EMNW12GL2A0**

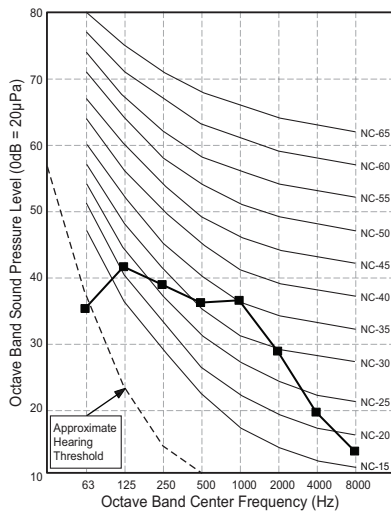


**AMNW18GL2A2
EMNW18GL2A0**



7. Sound levels

AMNW24GL3A2
EMNW24GL3A0

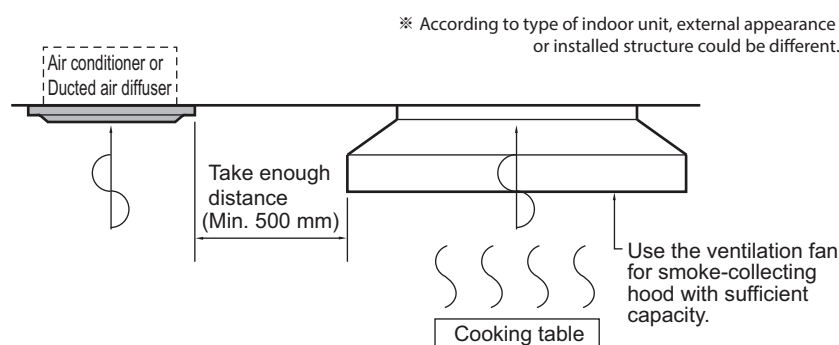


8. Installation

- Please read the instruction sheets completely before installing the product.
- When the power cord is damaged, replacement work shall be performed by authorized personnel only.
- Installation work must be performed in accordance with the national wiring standards.
- Teach the customer the operation and maintenance procedures, using the operation manual. (air filter cleaning, temperature control, etc.)

8.1 Selection of the best location

- The unit must be installed indoor area.
- Do not install the unit near the door.
- There should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- The place where the indoor unit can be connected with outdoor unit easily.
- The place where the unit is leveled.
- The place shall allow easy water drainage.
- The place where bear a load exceeding four times of the indoor unit weight.
- The mounting ceiling or wall should be solid enough to protect it from the vibration.
- The place where the unit is not affected by an electrical noise.
- The place where noise prevention is taken into consideration.
- The place where the maintenance space for product is sufficient. (The servicing inspection hole of the ceiling should be larger than the indoor unit.)
- The selection of the servicing inspection hole should be approved by the customer.
- There should not be any heat source or steam near the unit. Avoid the following installation location.
 1. Such places as restaurants and kitchen where considerable amount of oil steam and flour is generated. These may cause heat exchange efficiency reduction, or water drops, drain pump mal-function. In these cases, take the following actions;
 - Make sure that ventilation fan is enough to cover all noxious gases from this place.
 - Ensure enough distance from the cooking room to install the air conditioner in such a place where it may not suck oily steam.



2. Avoid installing air conditioner in such places where cooking oil or iron powder is generated.
3. Avoid places where inflammable gas is generated.
4. Avoid place where noxious gas is generated.
5. Avoid places near high frequency generators.

8. Installation

CAUTION

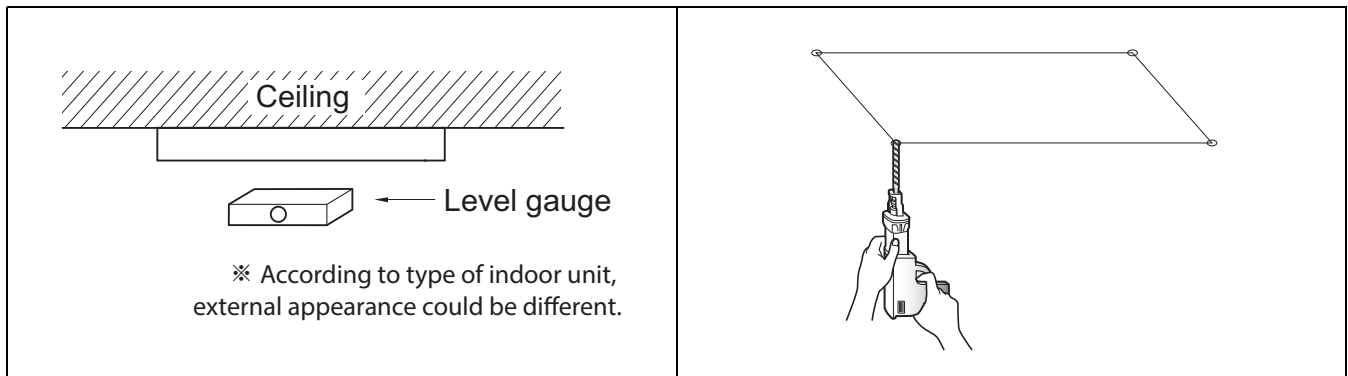
- If the temperature rise above 30°C or the humidity rise above RH 80%, the dew-protective kit should be equipped or use additional insulation to the indoor unit body.
 - "Dew Protective kit" is sold separately.
 - Use the glass wool material or polyethylene foam and it make sure to be thick of 10mm at least.
-

8. Installation

8.2 Ceiling dimension and hanging bolt location

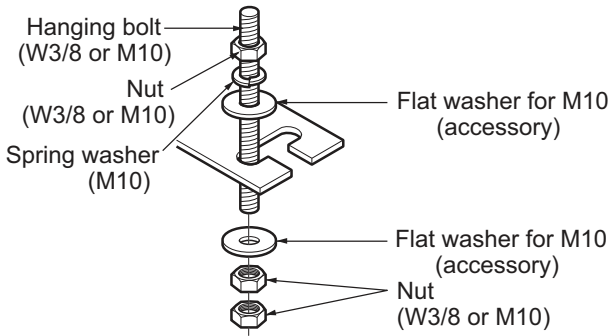
⚠ CAUTION

- During the installation, care should be taken not to damage electric wires.
- In case of using a drain pump, install the unit horizontally using a level gauge.



1. The dimensions of the paper model for installation are the same as those of the ceiling opening dimensions.
2. Select and mark the position for fixing bolts and piping hole.
3. Decide the position for fixing bolts slightly tilted to the drain direction after considering the direction of drain hose.
4. Drill the hole for anchor bolt on the wall or ceiling.
 - Insert the set anchor and washer onto the suspension bolts for locking the suspension bolts on the ceiling.
 - Mount the suspension bolts to the set anchor firmly.
 - Secure the installation plates onto the suspension bolts (adjust level roughly) using nuts, washers and spring washers.
5. In case of ducted type unit, apply a joint-canvas between the unit and duct to absorb unnecessary vibration.

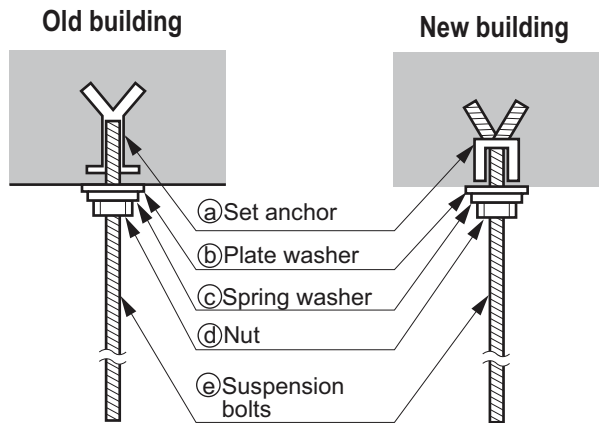
8. Installation



- The following parts are local purchasing.
 1. Hanging bolt - W 3/8 or M10
 2. Nut - W 3/8 or M10
 3. Spring washer - M10
 4. Plate washer - M10

⚠ CAUTION

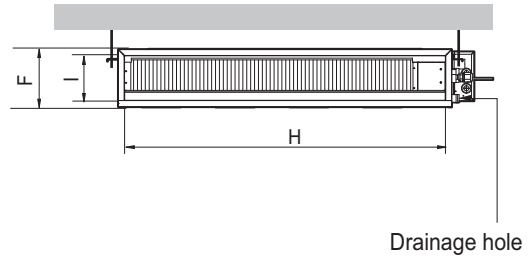
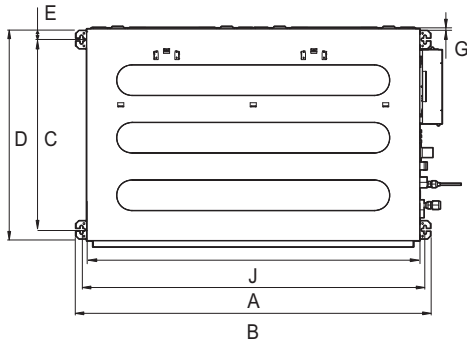
- Tighten the nut and bolt to prevent the unit from falling.
- When mechanical connectors are reused indoors, sealing parts shall be renewed. (for R32)
- When flared joints are reused indoors, the flare part shall be re-fabricated. (for R32)



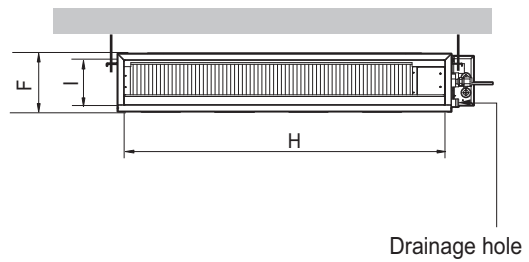
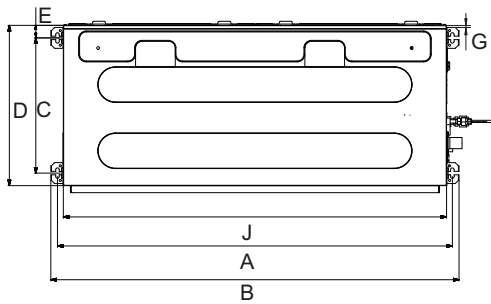
8. Installation

Installation of Unit

Install the unit above the ceiling correctly.



Chassis	Dimension (mm)									
	A	B	C	D	E	F	G	H	I	J
L1	733	772	628	700	36	190	20	660	155	700
L2	933	972	628	700	36	190	20	860	155	900
L3	1,133	1,172	628	700	36	190	20	1,060	155	1,100



Chassis	Dimension (mm)									
	A	B	C	D	E	F	G	H	I	J
L4	733	772	338	460	36	190	20	660	148	700
L5	933	972	338	460	36	190	20	860	148	900
L6	1,133	1,172	338	460	36	190	20	1,060	148	1,100

8. Installation

8.3 Connecting cables between Indoor Unit and Outdoor Unit

8.3.1 General instructions

- All field supplied parts and materials, electric works must conform to local codes. Use copper wire only.
 - Follow the "**WIRING DIAGRAM**" attached to the unit body to wire the outdoor unit, indoor units and the remote controller.
 - All wiring must be performed by an authorized electrician.
 - A circuit breaker capable of shutting down the power supply to the entire system must be installed.
-

CAUTION

After the confirmation of the above conditions, prepare the wiring as follows:

- Never fail to have separate power specially for the air conditioner.
 - Provide a circuit breaker switch between power source and the unit.
 - Confirm the Specification of power source.
 - Confirm that electrical capacity is sufficient.
 - Be sure that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.
 - Confirm that the cable thickness is as specified in the power sources specification.
(Particularly note the relation between cable length and thickness.)
 - Do not install the leakage breaker in a place which is wet or moist.
Water or moist may cause short circuit.
 - The following troubles would be caused by voltage drop-down.
 - » Vibration of a magnetic switch, damage on the contact point there of, fuse breaking, disturbance to the normal function of a overload protection device.
 - » Proper starting power is not given to the compressor.
-

8.3.2 Wiring connection

- Connect the wires to the terminals on the control board individually according to the outdoor unit connection.
- Ensure that the color of the wires of outdoor unit and the terminal No. are the same as those of indoor unit respectively.
- In case of the system with multiple indoor units, mark each indoor unit as unit A, unit B, etc and be sure the terminal board wiring to the outdoor unit and indoor units are properly matched. If wiring and piping between the outdoor unit and an indoor unit are mismatched, the system may cause a malfunction.

8.3.3 Clamping of cables

1. Arrange 2 power cables on the control panel.
2. First, fasten the steel clamp with a screw to the inner boss of control panel.
3. For connecting of communication (transmission) cable, put the cable(or thinner cable) on the clamp and tighten it with a plastic clamp to the other boss of the control panel. In case that communication (transmission) cable is not needed to connect, fix the other side of the clamp with a screw strongly.

8. Installation

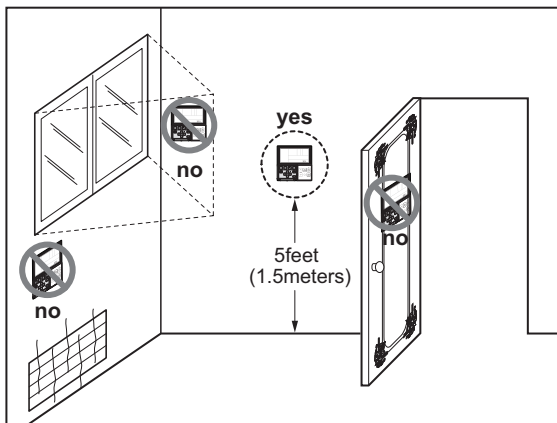
⚠ WARNING

- Make sure that the screws of the terminal are fixed tightly.
- The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (If they are loose, it could give rise to burn-out of the wires.)
- Make sure to attach the sealing material or (field supplied) to hole of wiring to prevent the infiltration of foreign particle from outside. Otherwise a short-circuit may occur inside the electric parts box.
- When clamping the wires, be sure no pressure is applied to the wire connections by using the included clamping material to make appropriate clamps. Also, when wiring, make sure the cover on the electric parts box fits snugly by arranging the wires neatly and attaching the electric parts box cover firmly. When attaching the electric parts box cover, make sure no wires get caught in the edges. Pass wiring through the wiring through holes to prevent damage to them.
- Make sure the remote controller wiring, the wiring between the units, and other electrical wiring do not pass through the same locations outside of the unit, separating them properly, otherwise electrical noise (external static) could cause product malfunction.

8.3.4 Wire Remote Controller Installation (Optional)

Since the room temperature sensor is in the remote controller, the remote controller box should be installed in a place away from direct sunlight, high humidity and direct supply of cold air to maintain proper space temperature.

Install the remote controller about 5ft(1.5m) above the floor in an area with good air circulation at an average temperature.



• Do not install the remote controller where it can be affected by :

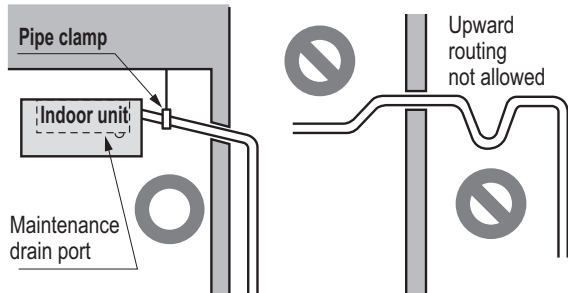
- Drafts, or dead spots behind doors and in corners.
- Hot or cold air from ducts.
- Radiant heat from sun or appliances.
- Concealed pipes and chimneys.
- Uncontrolled areas such as an outside wall behind the remote controller.
- This remote controller is equipped with a seven segment LED. display. For proper display of the remote controller LED's, the remote controller should be installed properly. (The standard height is 1.2~1.5 m from floor level.)

8. Installation

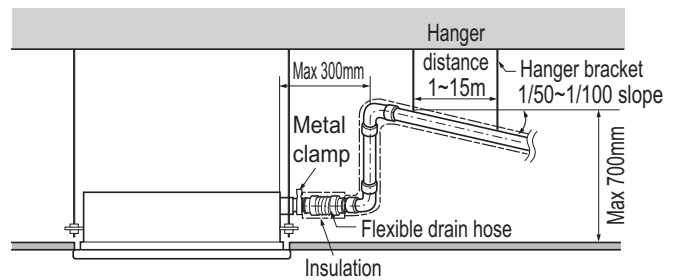
8.4 Indoor Unit Drain Piping

8.4.1 Drain piping of indoor unit with drain pump

- Drain piping must have down-slope (1/50 to 1/100). Be sure not to provide up-and-down slope to prevent reversal flow.
- During drain piping connection, be careful not to exert force on the drain port on the indoor unit.
- The outside diameter of the drain connection on the indoor unit is 32 mm (1-1/4 inch).
 - Piping material: Use the Polyvinyl chloride pipe, 25 mm (1 inch) pipe fittings.

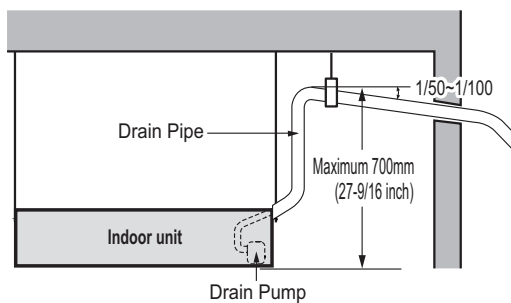


※ According to type of indoor unit, external appearance could be different.

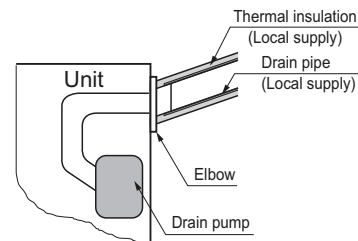


※ According to type of indoor unit, external appearance could be different.

- Possible drain head height is upto 700 mm (27-6/19 inch). So the drain head should be installed below 700 mm (27-6/19 inch).
- Be sure to install heat insulation on the drain piping.
 - Heat insulation material: Polyethylene foam with thickness more than 8 mm (5/16 inch).



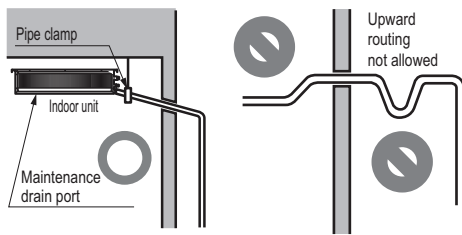
※ According to type of indoor unit, external appearance could be different.



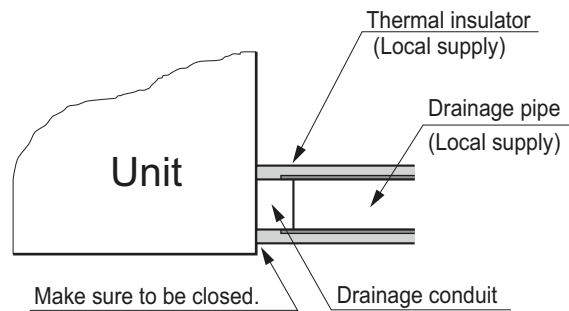
8. Installation

8.4.2 Drain pipe connection without drain pump

- Drain piping must have down-slope (1/50 to 1/100). Be sure not to provide up-and-down slope to prevent reversal flow.
- During drain piping connection, be careful not to exert force on the drain port on the indoor unit.
- The outside diameter of the drain connection on the indoor unit and drain piping fittings should be referenced from 'Specifications' of each models.
 - Piping material: Use the Polyvinyl chloride pipe.
- Be sure to install heat insulation on the drain piping.
 - Heat insulation material: Polyethylene foam with thickness more than 8 mm (5/16 inch).



* U-trap is not required for low static model in which the external static pressure is below 50 pa(5mm Aq)



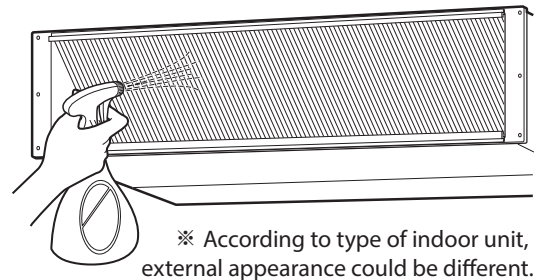
8. Installation

8.4.3 Method of Drainage test

◆ Drainage test of indoor unit

Use the following procedure to test the drainage.

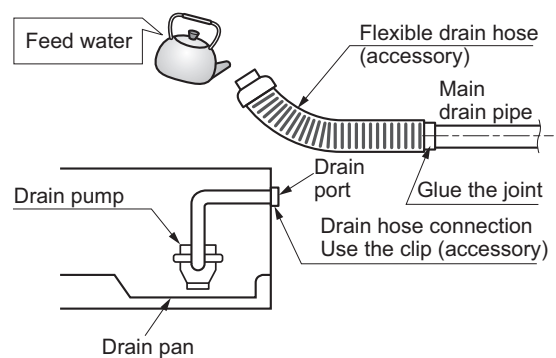
1. In case that there are air filter, remove the air filter first.
2. Spray one or two glasses of water on the evaporator.
3. Check the drainage. Ensure that water flows through drain hose of indoor unit without any leakage.



◆ Drainage test of indoor unit with drain pump

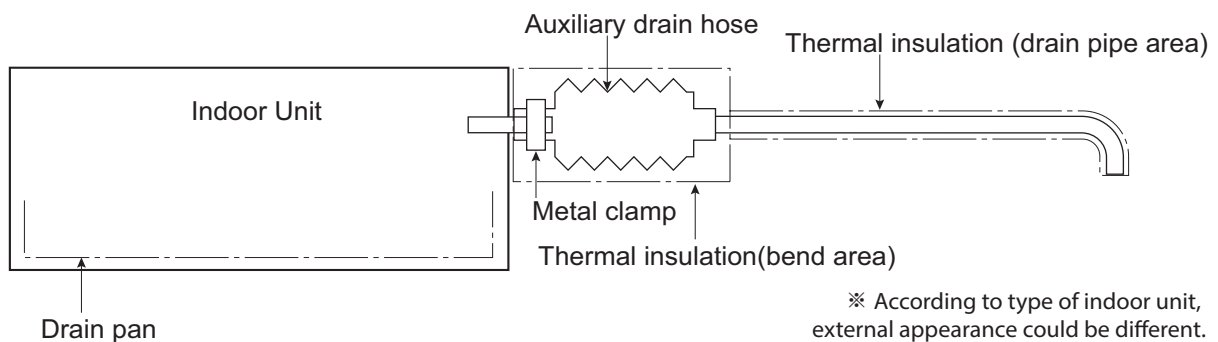
Use the following procedure to test the drain pump operation.

1. Connect the main drain pipe to the exterior and leave it provisionally until the test comes to an end.
2. Feed water to the flexible drain hose and check the piping for leakage.
3. Be sure to check the drain pump for normal operating and noise when electrical wiring is complete.
4. When the test is complete, connect the flexible drain hose to the drain port on the indoor unit.



8.4.4 Connection of an auxiliary(flexible) drain hose

- To connect drain pipe to the drain socket on the indoor unit, an auxiliary flexible drain hose should be used. auxiliary flexible drain hose allows that the drain pipe can be connected to the socket without breaking by excessive strain.



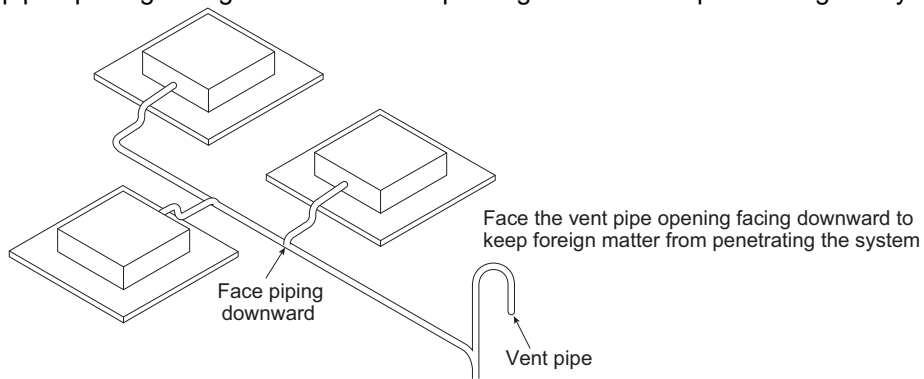
⚠ CAUTION

- The supplied flexible drain hose should not be curved, neither screwed. The curved or screwed hose may cause a leakage of water.
- It is need to insulate the auxiliary drain hose with thermal insulation material.

8. Installation

8.4.5 Ground drain piping

- It is standard work practice to make connections to the main pipe from above. The pipe down from the combination should be as large as possible.
- The pipe work should be kept as short as possible and the number of indoor units per group kept to a minimum.
- Face the vent pipe opening facing downward to keep foreign matter from penetrating the system.



ACCESSORY

Accessory

- 1. Air Purification Kit**
- 2. UVnano Filter Box Kit**

ACCESSORY

Air Purification Kit

1. Specification

1. Specification

Specification		Unit	1way Cassette	
			TU	TT
Air Purification Kit Model		-	PTAHTP0	
Air Purification Panel		-	PT-UPHG0	PT-TPHG0
PM1.0 Sensor	Size (W x H x D)	mm	59 x 45 x 22	
	Supply Voltage	V	5	
	Measure	-	PM1.0 / PM2.5 / PM10	
HVPS	Size (W x H x D)	mm	99 X 50 X 30	
	Input	-	DC 12V	
	Output (Electrification / Dust Collection)	-	-7.7kV / -5.2kV	
PM1.0 Filter	Size (W x H x D)	mm	524 x 18 x 141	
	Weight	g	430	
Deodorization filter	Material	-	Pulp + Carbon (Corrugate)	
	Size (W x H x D)	mm	301 x 11 x 100	
	Weight	g	40	
Ionizer	Size (W x H x D)	mm	71 x 19 x 30	
	Input	-	DC 12V	
	Output	-	-3.2kV	
	Amount of Ion emission	EA/cc	3,000,000	

Specification		Unit	4way Cassette	
			TP / TN / TM	TP-B / TM-A
Air Purification Kit Model		-	PTAHMP0	
Air Purification Panel		-	PT-MPGW0 (U-style)	PT-AFGW0 (Dual Vane)
PM1.0 Sensor	Size (W x H x D)	mm	59 x 45 x 22	
	Supply Voltage	V	5	
	Measure	-	PM1.0 / PM2.5 / PM10	
HVPS	Size (W x H x D)	mm	99 X 50 X 30	
	Input	-	DC 12V	
	Output (Electrification / Dust Collection)	-	-7.7kV / -5.2kV	
PM1.0 Filter	Size (W x H x D)	mm	500 x 38 x 395	
	Weight	g	2,090	
Deodorization filter	Material	-	Pulp + Carbon (Corrugate)	
	Size (W x H x D)	mm	478 x 14 x 138	
	Weight	g	180	
Ionizer	Size (W x H x D)	mm	71 x 19 x 30	
	Input	-	DC 12V	
	Output	-	-3.2kV	
	Amount of Ion emission	EA/cc	3,000,000	

1. Specification

Specification		Unit	Round Cassette
			TY
Air Purification Kit Model		-	PTAHYP0
Air Purification Panel		-	-
PM1.0 Sensor	Size (W x H x D)	mm	59 x 45 x 16.6
	Supply Voltage	V	5
	Measure	-	PM1.0 / PM2.5 / PM10
HVPS	Size (W x H x D)	mm	99 X 50 X 30
	Input	-	DC 12V
	Output (Electrification / Dust Collection)	-	-7.7kV / -5.2kV
PM1.0 Filter	Size (W x H x D)	mm	500 x 38 x 395
	Weight	g	2,090
Deodorization filter	Material	-	Pulp + Carbon (Corrugate)
	Size (W x H x D)	mm	478 X 14 x 138
	Weight	g	180
Ionizer	Size (W x H x D)	mm	-
	Input	-	-
	Output	-	-
	Amount of Ion emission	EA/cc	-

ACCESSORY

UVnano Filter Box

1.Specification

2.Dimensions

3.External Static Pressure(E.S.P) & Air Flow

1. Specification

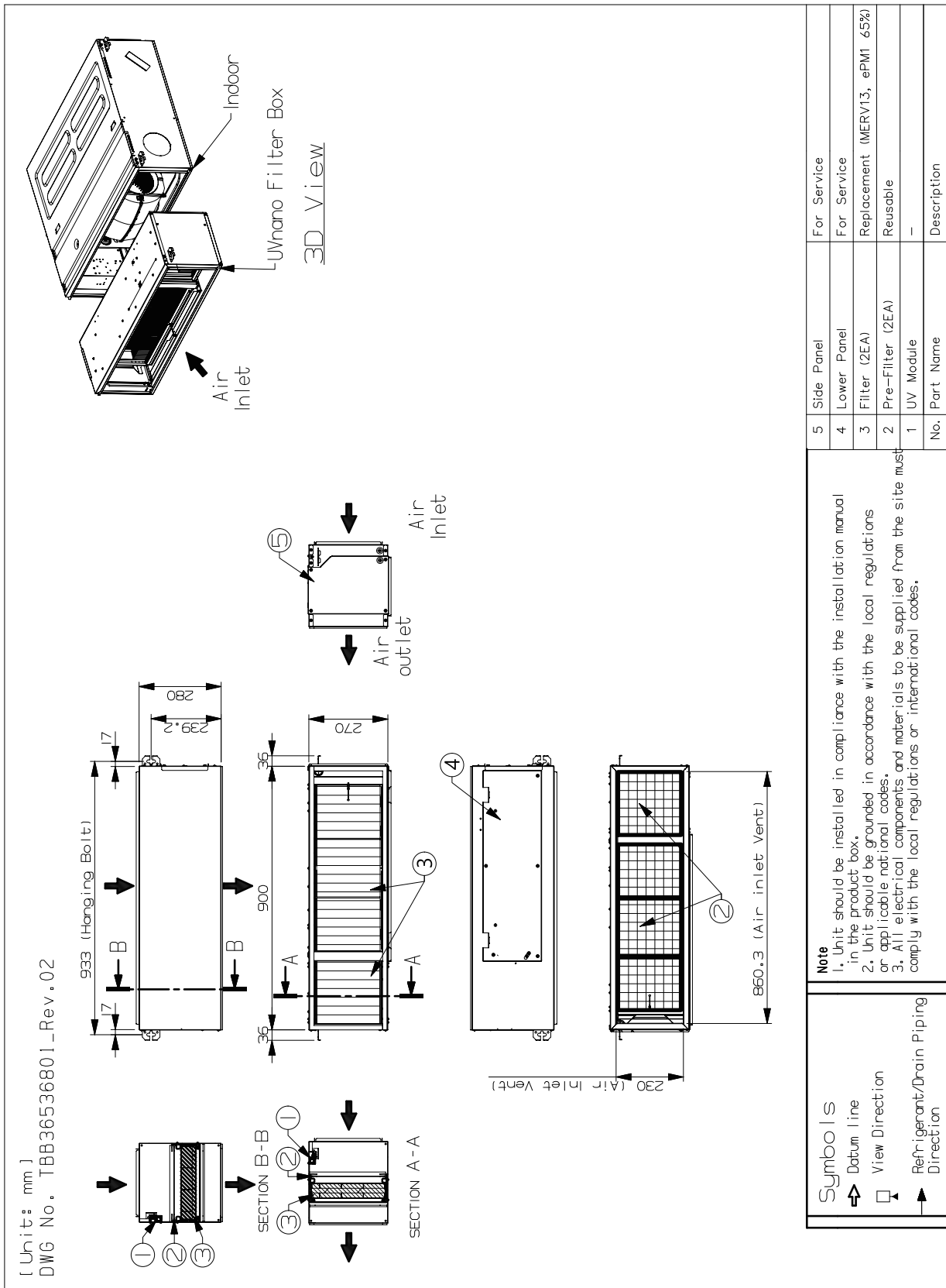
Model		Unit	PBM13M1UA0	PBM13M2UA0	PBM13M3UA0
Applied Chassis			M1	M2	M3
Net Size (W x H x D)		mm	900 x 270 x 280	1,250 x 270 x 280	1,250 x 360 x 280
Shipping Size (W x H x D)		mm	1,048 x 340 x 377	1,440 x 340 x 377	1,440 x 430 x 377
Net Weight		kg	9.1	11.6	12.7
Shipping Weight		kg	11.4	14.7	16.2
Filter (1)	Size(W x H x D)	mm	600 x 251 x 50.8	600 x 251 x 50.8	600 x 341 x 50.8
	Quantity	EA	1	2	2
	Grade 1	-	ePM1 65%	ePM1 65%	ePM1 65%
	Grade 2	-	MERV 13	MERV 13	MERV 13
Filter (2)	Size(W x H x D)	mm	250 x 251 x 50.8	-	-
	Quantity	EA	1	-	-
	Grade 1	-	ePM1 65%	-	-
	Grade 2	-	MERV 13	-	-
Pre-Filter (1)	Size(W x H x D)	mm	596 x 247 x 4	596 x 247 x 4	596 x 377 x 4
	Mesh	-	34 x 39	34 x 39	34 x 39
	Color	-	BLACK	BLACK	BLACK
	Quantity	-	1	2	2
Pre-Filter (2)	Size(W x H x D)	mm	247 x 247 x 4	-	-
	Mesh	-	34 x 39	-	-
	Color	-	BLACK	-	-
	Quantity	EA	1	-	-
UVnano	LED Quantity	EA	8	8	8
	Input	V	DC 12V	DC 12V	DC 12V
	Wavelength	nm	275	275	275

Note

1. Grade 1 : ISO EN 16890
2. Grade 2 : ASHRAE 52.2

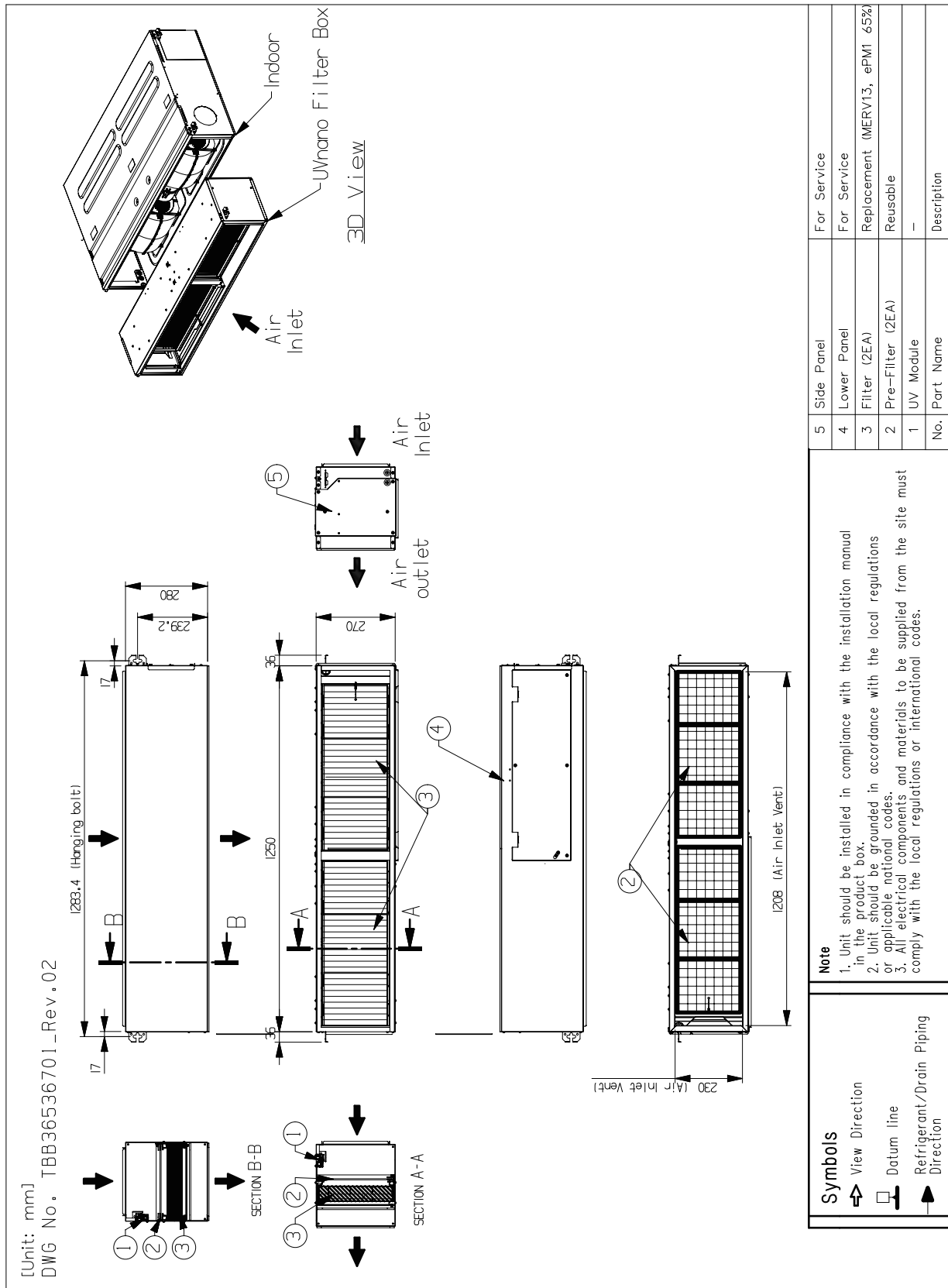
2. Dimensions

◆ PBM13M1UA0



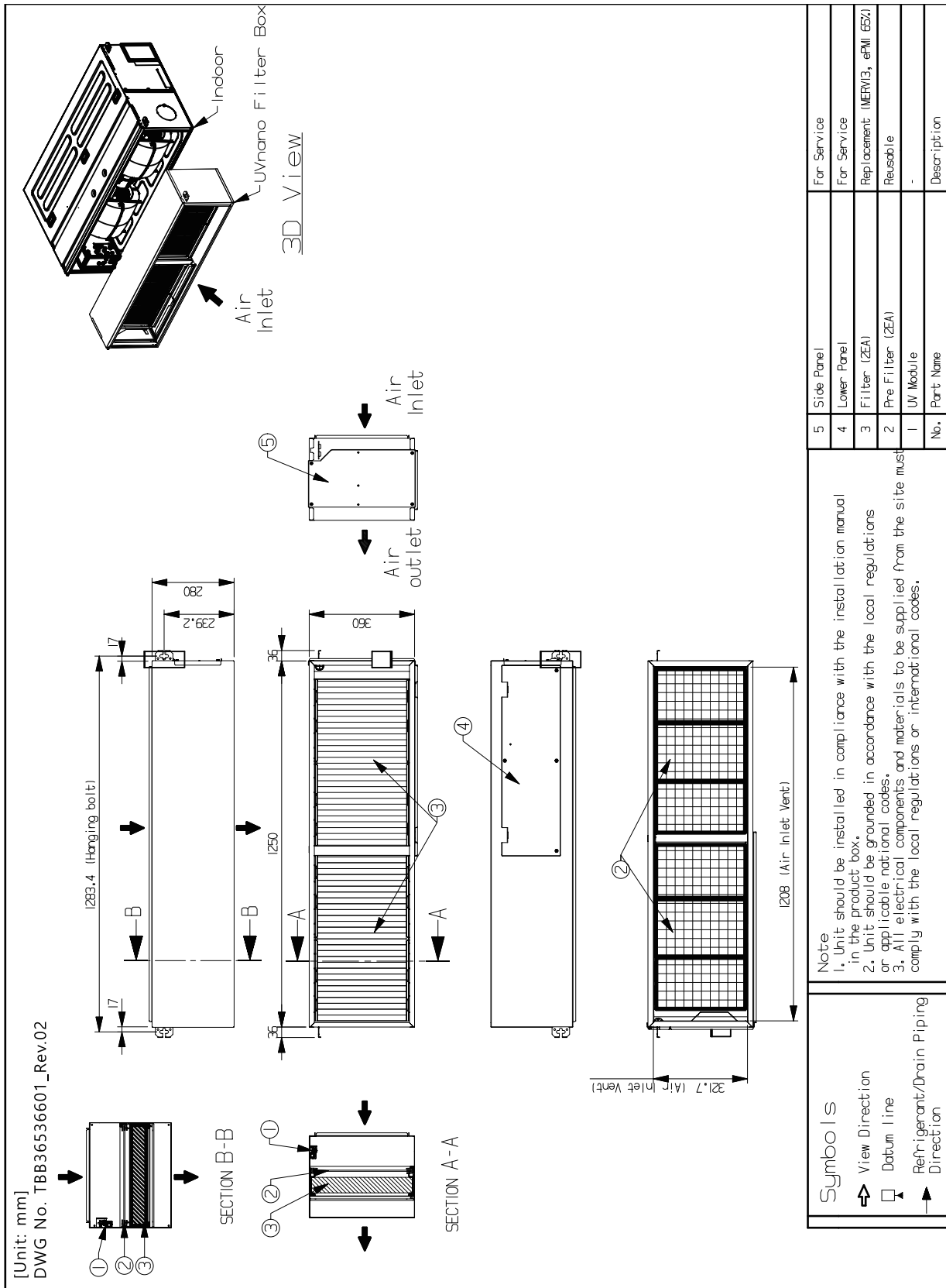
2. Dimensions

◆ PBM13M2UA0



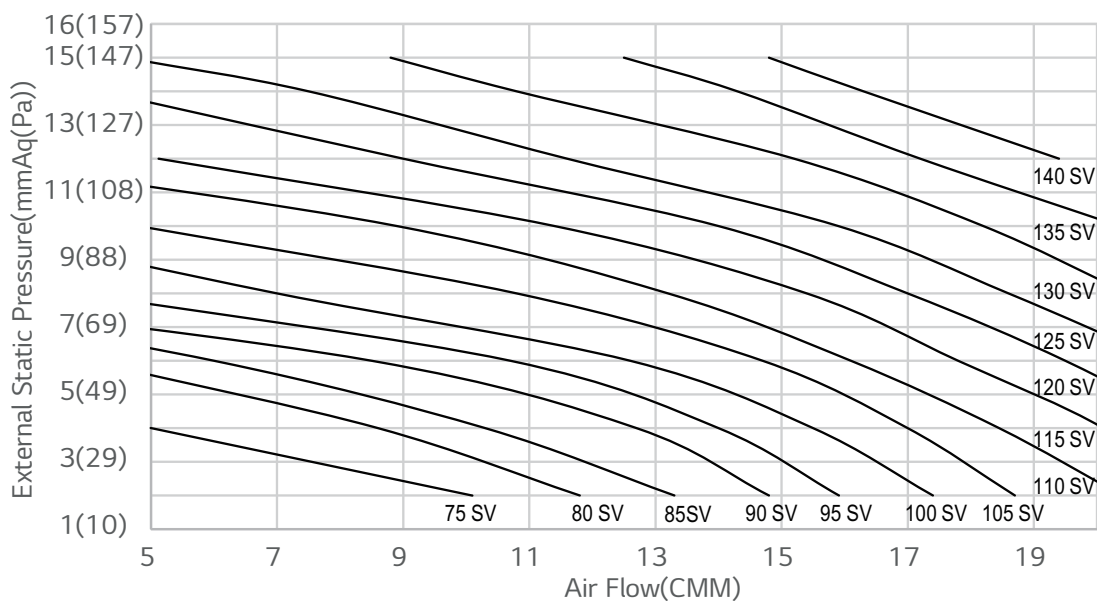
2. Dimensions

◆ PBM13M3UA0



3. External Static Pressure(E.S.P) & Air Flow

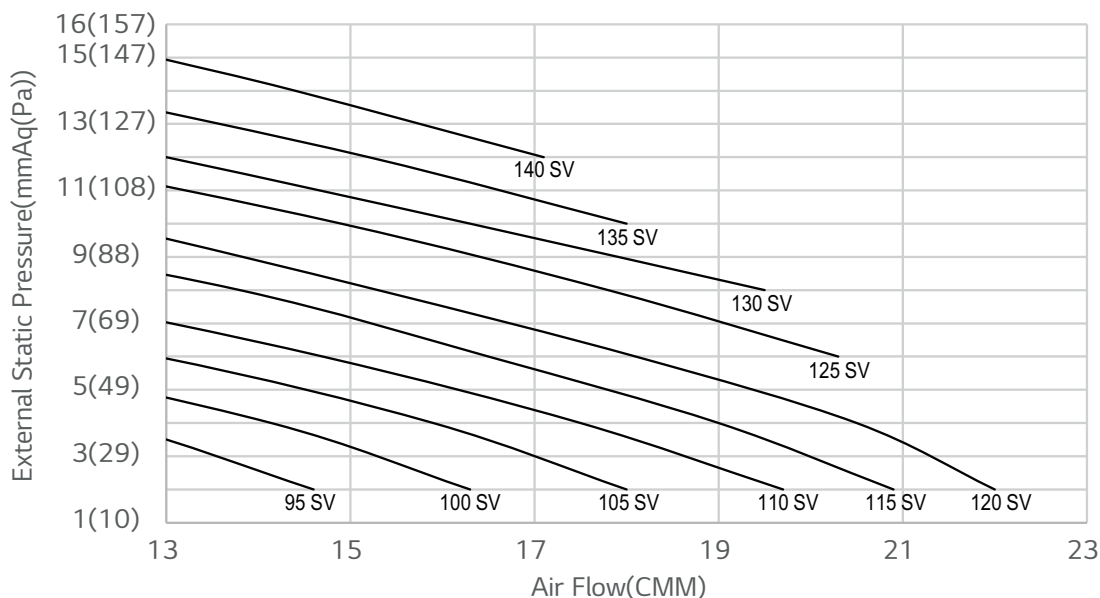
◆ M1 Chassis (18~24 kBtu/h)



Note

1. SV : Setting Value
2. The available range of External Static Pressure and Setting Value depends on the applied model. Please check the specifications of the applied model.
3. Auto E.S.P Setting is also available with UVnano Filter Box.

◆ M1 Chassis (30 kBtu/h)

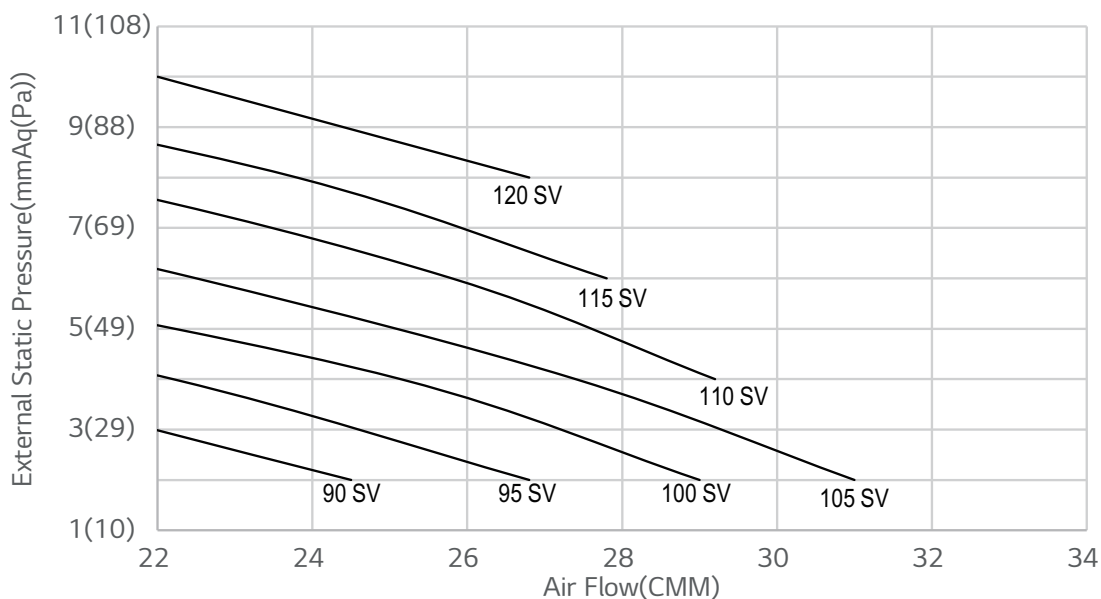


Note

1. SV : Setting Value
2. The available range of External Static Pressure and Setting Value depends on the applied model. Please check the specifications of the applied model.
3. Auto E.S.P Setting is also available with UVnano Filter Box.

3. External Static Pressure(E.S.P) & Air Flow

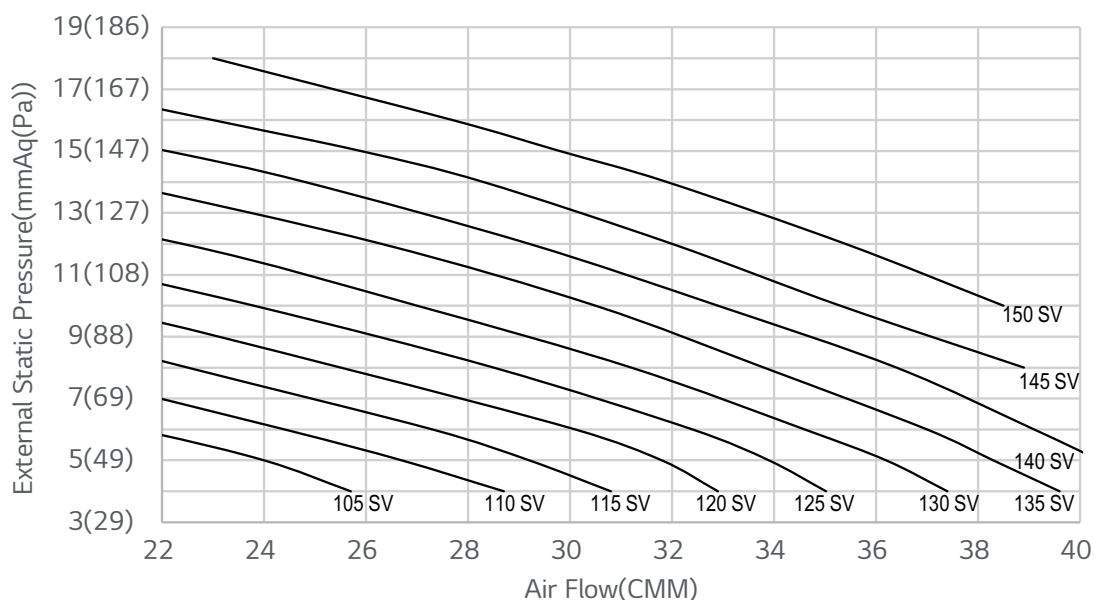
◆ M2 Chassis (30 kBTu/h)



Note

1. SV : Setting Value
2. The available range of External Static Pressure and Setting Value depends on the applied model. Please check the specifications of the applied model.
3. Auto E.S.P Setting is also available with UVnano Filter Box.
4. This PQ Curve is for ABN*30GM2** only.

◆ M2 Chassis (36~42 kBTu/h)

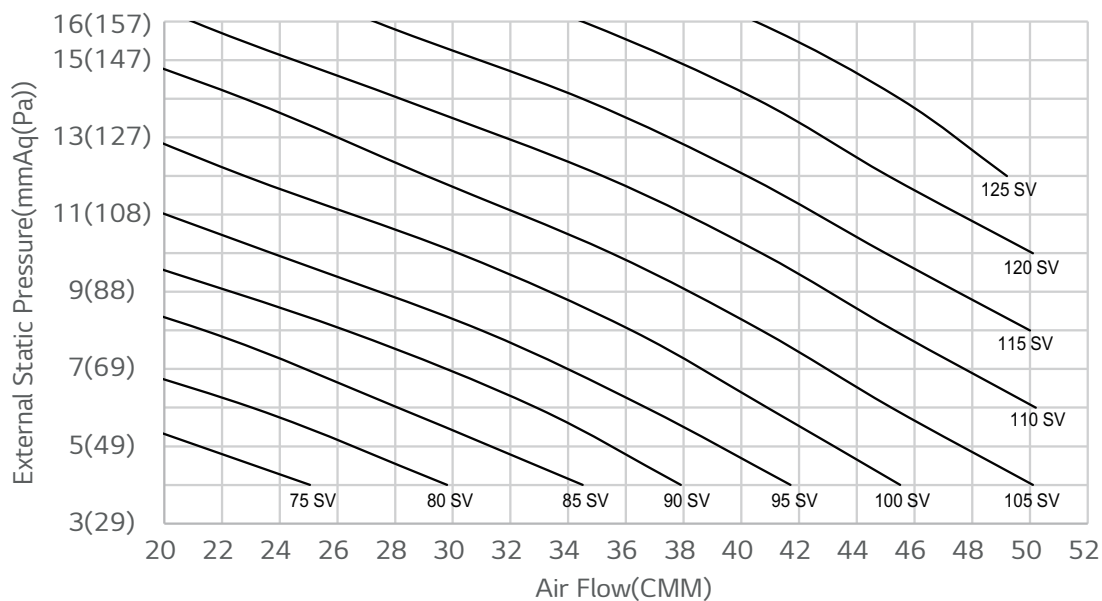


Note

1. SV : Setting Value
2. The available range of External Static Pressure and Setting Value depends on the applied model. Please check the specifications of the applied model.
3. Auto E.S.P Setting is also available with UVnano Filter Box.

3. External Static Pressure(E.S.P) & Air Flow

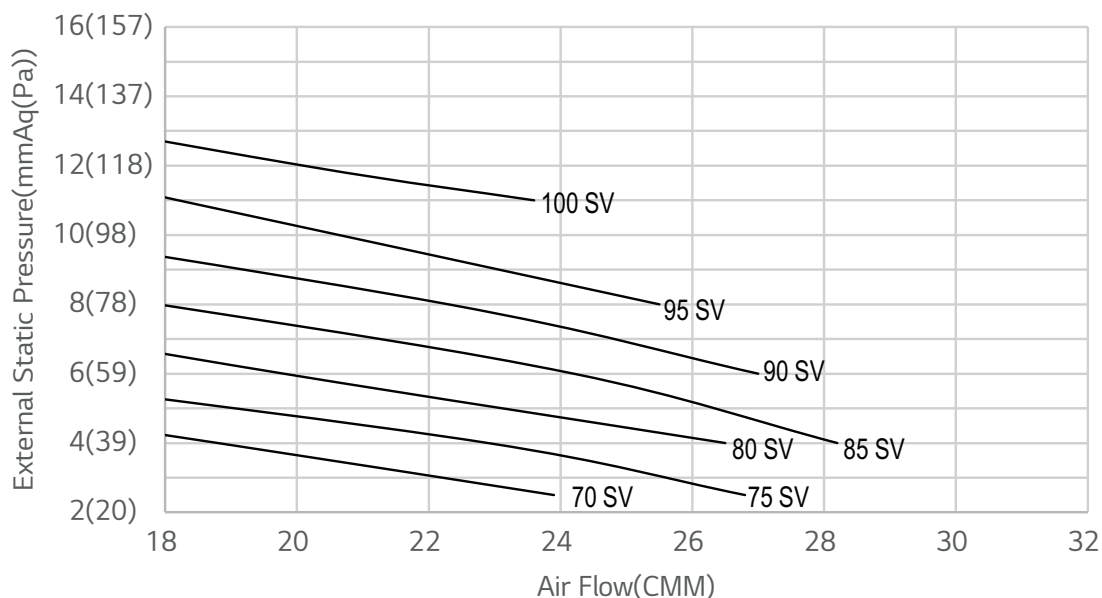
◆ M3 Chassis (36~60 kBtu/h)



Note

1. SV : Setting Value
2. The available range of External Static Pressure and Setting Value depends on the applied model. Please check the specifications of the applied model.
3. Auto E.S.P Setting is also available with UVnano Filter Box.

◆ M3 Chassis (36 kBtu/h)



Note

1. SV : Setting Value
2. The available range of External Static Pressure and Setting Value depends on the applied model. Please check the specifications of the applied model.
3. Auto E.S.P Setting is also available with UVnano Filter Box.
4. This PQ Curve is for ABN*36GM3** only.



Air Solution

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