

LG

MULTI

Indoor unit

R410A

0CT10-01A

TOTAL HVAC

SOLUTION

PROVIDER

ENGINEERING PRODUCT DATA BOOK

MULTI

Indoor unit

General information

Product data

Wall Mounted Unit

ART COOL Mirror

Ceiling Mounted cassette 1-way

Ceiling Mounted cassette 4-way

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				○	
		TP					○

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>AMNH09GTUC0 / AMNW09GTUA0 AMNH12GTUC0 / AMNW12GTUA0 AMNW18GTTC0 / AMNW18GTTA0</p> 
<p>• Wall Mounted Unit (Standard plus)</p> <p>AMNW07GSJB0 AMNW09GSJB0 AMNW12GSJB0 AMNW18GSKB0 AMNW24GSKB0</p> 	<p>• Ceiling Mounted Cassette 4-way</p> <p>AMNH07GTRA0 AMNW09GTRA0 AMNW12GTRA0 AMNW18GTQA0 AMNW24GTPA0</p> 
<p>• Wall Mounted Unit (Standard)</p> <p>AMNW07GSJA0 AMNW09GSJA0 AMNW12GSJA0 AMNW18GSKA0 AMNW24GSKA0</p> 	<p>• ART COOL Mirror</p> <p>AMNW07GSJR0 AMNW09GSJR0 AMNW12GSJR0 AMNW18GSKR0 AMNW24GSKR0</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	K	A	0
No.	1	2	3	4	5	6	7	8

No.	Signification
1	A*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 : Basic, C : Plasma Functions for Wall Mounted Unit L : Ionizer + 4 Way Air flow + Wi-Fi B : 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

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.Controller**
- 9.Installation**

1. List of functions

■ Deluxe

◆ Basic functions of Indoor Unit

Category	Functions	AMNW07GSJL0, AMNW09GSJL0, AMNW12GSJL0 AMNW18GSKL0, AMNW24GSKL0
Air flow	Air supply outlet	1
	Airflow direction control (left & right)	O (5 Steps)
	Airflow direction control (up & down)	O (6 Steps)
	Auto swing (left & right)	O
	Auto swing (up & down)	O
	Airflow steps (fan/cool/heat)	6 / 6 / 6
	Chaos wind(auto wind)	O
	Jet cool/heat	O / O
	Swirl wind	X
	Comfort Air	O
Air purifying	Triple filter (Deodorizing)	X
	Air purifier (Plasma)	X
	Air purifier (Ionizer)	O
	Allergy Safe filter	X
	Long-life prefilter (washable / anti-fungus)	O
Installation	Drain pump	X
	E.S.P. control*	X
	Electric heater	X
	High ceiling operation*	X
Reliability	Hot start	O
	Self diagnosis	O
Convenience	Auto changeover	X
	Auto cleaning	O
	Auto operation(artificial intelligence)	O
	Auto Restart	O
	Child lock*	O
	Forced operation	O
	Group control*	X
	Sleep mode	O (7hr)
	Timer(on/off)	O
	Timer(weekly)*	O
	Two thermistor control*	O
Auto Elevation Grille	X	
Special Functions	Wi-Fi	O
	Humidity Control	X
Comes with product	Wireless Remote Controller	O**
	Wired Remote Controller	X
Network Solution(LGAP)		O

Note

1. O : Applied, X : Not applied

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

2. Some functions can be limited by remote controller.

3. In case of ducted type indoor units using the wireless remote controller, it needs to connect the wired remote controller for received the signal of that.

4. In case of cassette type indoor units, Plasma kit and Auto Elevation Grille functions are not applicable at the same time.

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

6. ** : It is included by default when the product is manufactured.

1. List of functions

◆ Network solution Accessory List

Category		Product	Remark	AMNW07GSJL0 AMNW09GSJL0 AMNW12GSJL0 AMNW18GSKL0 AMNW24GSKL0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	Standard	PREMTB001	Standard (White)	O
		PREMTBB01	Standard (Black)	O
		PREMTB100**	New Standard (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	-	O
		PDRYCB500	Dry Contact For Modbus	X
Gateway	IDU PI485	PHNFP14A0	Connected with the Indoor Units	X
		PSNFP14A0	Connected with the Indoor Units	X
ETC	Remote temperature sensor	PQRSTA0	-	X
	Zone controller	ABZCA	-	X
	Electronic thermostat	AQETC	-	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
 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> Download> Manuals)

1. List of functions

■ Standard plus

◆ Basic functions of Indoor Unit

Category	Functions	AMNW07GSJB0, AMNW09GSJB0, AMNW12GSJB0 AMNW18GSKB0, AMNW24GSKB0
Air flow	Air supply outlet	1
	Airflow direction control (left & right)	O (5 Steps)
	Airflow direction control (up & down)	O (6 Steps)
	Auto swing (left & right)	O
	Auto swing (up & down)	O
	Airflow steps (fan/cool/heat)	6 / 6 / 6
	Chaos wind(auto wind)	O
	Jet cool/heat	O / O
	Swirl wind	X
	Comfort Air	O
Air purifying	Triple filter (Deodorizing)	X
	Air purifier (Plasma)	X
	Air purifier (Ionizer)	X
	Allergy Safe filter	X
	Long-life prefilter (washable / anti-fungus)	O
Installation	Drain pump	X
	E.S.P. control*	X
	Electric heater	X
	High ceiling operation*	X
Reliability	Hot start	O
	Self diagnosis	O
Convenience	Auto changeover	X
	Auto cleaning	O
	Auto operation(artificial intelligence)	O
	Auto Restart	O
	Child lock*	O
	Forced operation	O
	Group control*	X
	Sleep mode	O (7hr)
	Timer(on/off)	O
	Timer(weekly)*	O
	Two thermistor control*	O
Auto Elevation Grille	X	
Special Functions	Wi-Fi	O
	Humidity Control	X
Comes with product	Wireless Remote Controller	O**
	Wired Remote Controller	X
Network Solution(LGAP)		O

Note

1. O : Applied, X : Not applied

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

2. Some functions can be limited by remote controller.

3. In case of ducted type indoor units using the wireless remote controller, it needs to connect the wired remote controller for received the signal of that.

4. In case of cassette type indoor units, Plasma kit and Auto Elevation Grille functions are not applicable at the same time.

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

6. ** : It is included by default when the product is manufactured.

1. List of functions

◆ Network solution Accessory List

Category		Product	Remark	AMNW05GSJB0 AMNW07GSJB0 AMNW09GSJB0 AMNW12GSJB0 AMNW15GSJB0 AMNW18GSKB0 AMNW24GSKB0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	Standard	PREMTB001	Standard (White)	O
		PREMTBB01	Standard (Black)	O
		PREMTB100**	New Standard (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	-	O
		PDRYCB500	Dry Contact For Modbus	X
Gateway	IDU PI485	PHNFP14A0	Connected with the Indoor Units	X
		PSNFP14A0	Connected with the Indoor Units	X
ETC	Remote temperature sensor	PQRSTA0	-	X
	Zone controller	ABZCA	-	X
	Electronic thermostat	AQETC	-	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
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> Download> Manuals)

1. List of functions

■ Standard

◆ Basic functions of Indoor Unit

Category	Functions	AMNW07GSJA0 , AMNW09GSJA0, AMNW12GSJA0 AMNW18GSKA0, AMNW24GSKA0
Air flow	Air supply outlet	1
	Airflow direction control (left & right)	O (Manual)
	Airflow direction control (up & down)	O (6 Steps)
	Auto swing (left & right)	X
	Auto swing (up & down)	O
	Airflow steps (fan/cool/heat)	6 / 6 / 6
	Chaos wind(auto wind)	O
	Jet cool/heat	O / O
	Swirl wind	X
	Comfort Air	O
Air purifying	Triple filter (Deodorizing)	X
	Air purifier (Plasma)	X
	Air purifier (Ionizer)	X
	Allergy Safe filter	X
	Long-life prefilter (washable / anti-fungus)	O
Installation	Drain pump	X
	E.S.P. control*	X
	Electric heater	X
	High ceiling operation*	X
Reliability	Hot start	O
	Self diagnosis	O
Convenience	Auto changeover	X
	Auto cleaning	O
	Auto operation(artificial intelligence)	O
	Auto Restart	O
	Child lock*	X
	Forced operation	O
	Group control*	X
	Sleep mode	O (7hr)
	Timer(on/off)	O
	Timer(weekly)*	X
	Two thermistor control*	X
Auto Elevation Grille	X	
Special Functions	Wi-Fi	X
	Humidity Control	X
Comes with product	Wireless Remote Controller	O**
	Wired Remote Controller	X
Network Solution(LGAP)		X

Note

1. O : Applied, X : Not applied

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

2. Some functions can be limited by remote controller.

3. In case of ducted type indoor units using the wireless remote controller, it needs to connect the wired remote controller for received the signal of that.

4. In case of cassette type indoor units, Plasma kit and Auto Elevation Grille functions are not applicable at the same time.

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

6. ** : It is included by default when the product is manufactured.

1. List of functions

◆ Network solution Accessory List

Category		Product	Remark	AMNW07GSJA0 AMNW09GSJA0 AMNW12GSJA0 AMNW18GSKA0 AMNW24GSKA0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	X
		PQRCHCA0Q(W)	for Hotel	X
	Standard	PREMTB001	Standard (White)	X
		PREMTBB01	Standard (Black)	X
		PREMTB100**	New Standard (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	-	X
		PDRYCB500	Dry Contact For Modbus	X
Gateway	IDU PI485	PHNFP14A0	Connected with the Indoor Units	X
		PSNFP14A0	Connected with the Indoor Units	X
ETC	Remote temperature sensor	PQRSTA0	-	X
	Zone controller	ABZCA	-	X
	Electronic thermostat	AQETC	-	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
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> Download> Manuals)

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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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 Zero.

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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.					
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 Zero.					

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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.				
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 Zero. 				

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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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 Zero.

2. Specifications

Model Name				AMNW09GSJB0	AMNW12GSJB0
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	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 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)	8.7 (19.2)	8.7 (19.2)
	Shipping		kg (lbs)	12.0 (26.5)	12.0 (26.5)
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	9.2 / 7.4 / 5.6	9.6 / 8.1 / 5.6
		H / M / L	ft ³ /min	325 / 261 / 198	339 / 286 / 198
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)	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	
			-	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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.					
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 Zero. 					

2. Specifications

Model Name				AMNW18GSKB0	AMNW24GSKB0
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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.					
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 Zero.					

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		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	
			-	Thermal Protector for Fan Motor	
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

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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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 Zero.

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

- 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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
- 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 Zero.

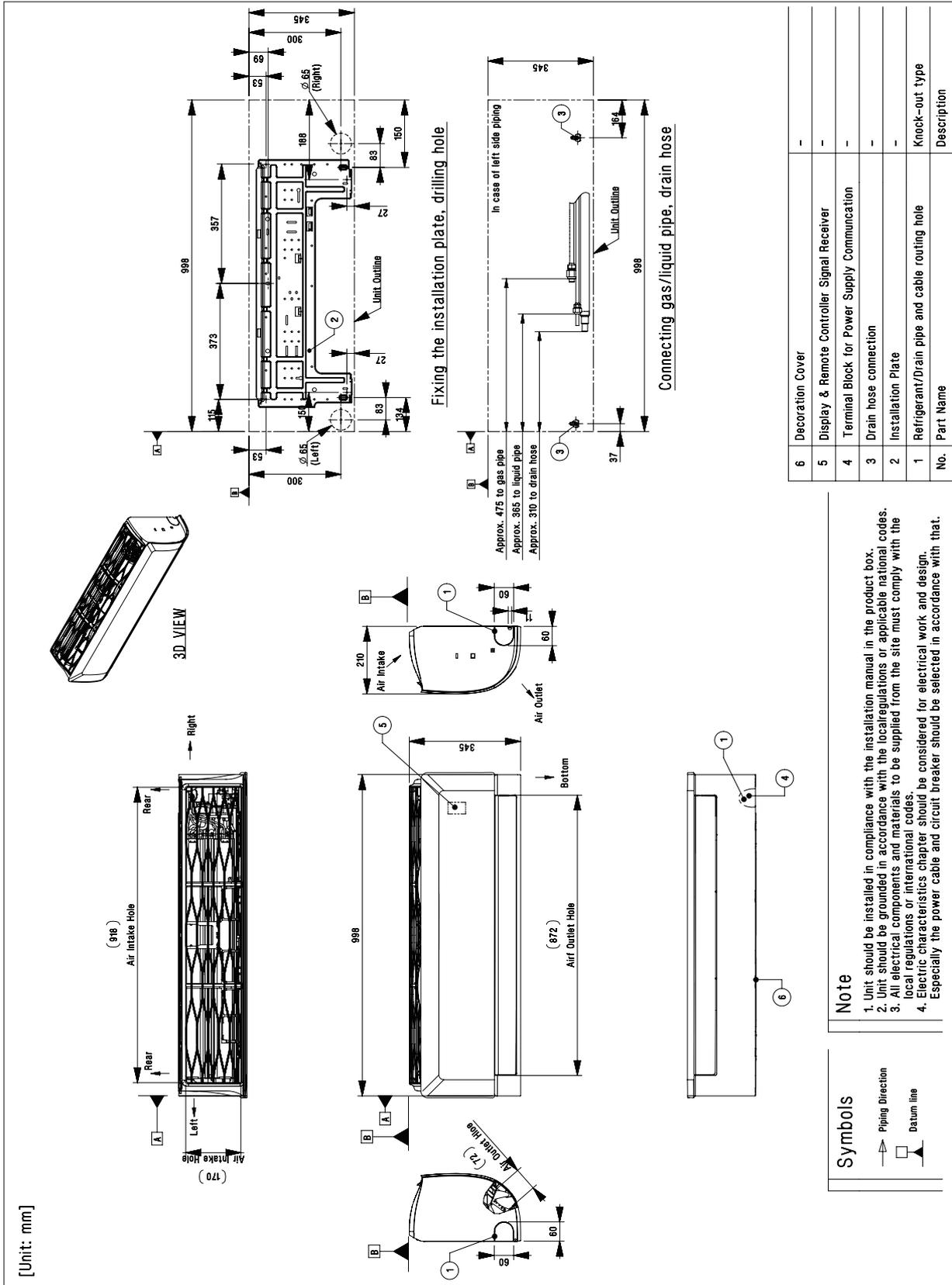
2. Specifications

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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.				
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 Zero. 				

3. Dimensions

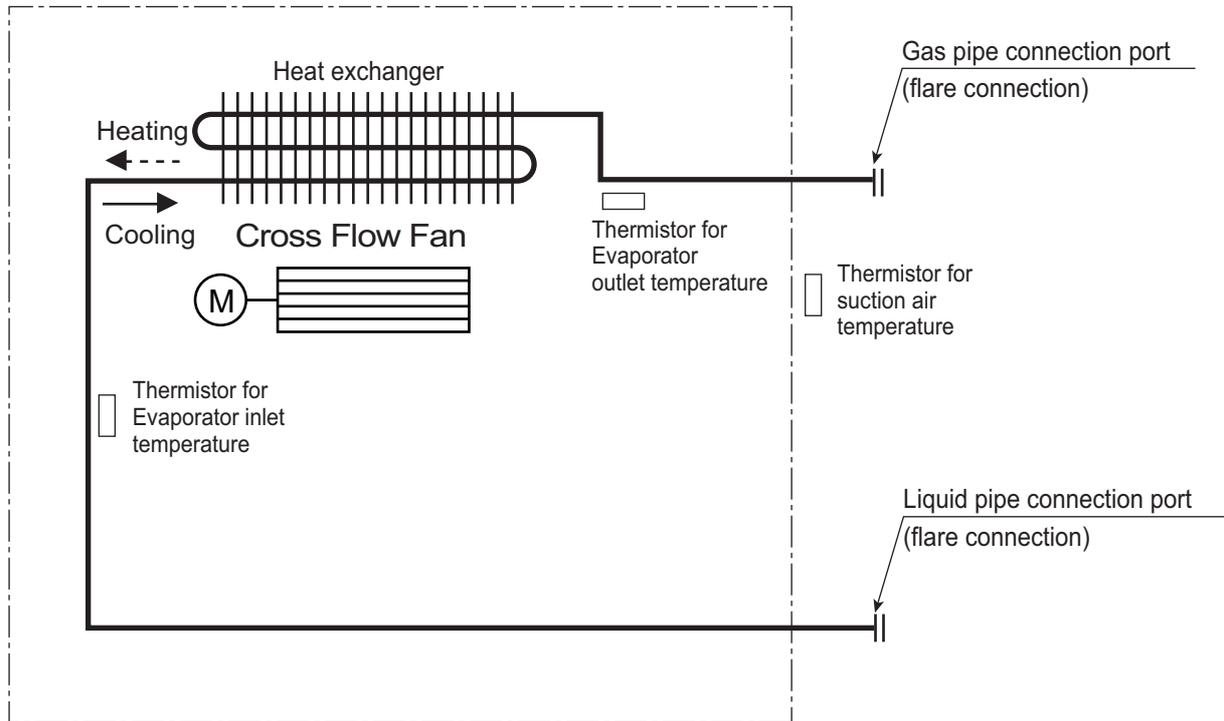
◆ Deluxe / Standard Plus / Standard (SK Chassis)

AMNW-GSKL0 / AMNW-GSKB0 / AMNW-GSKA0



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

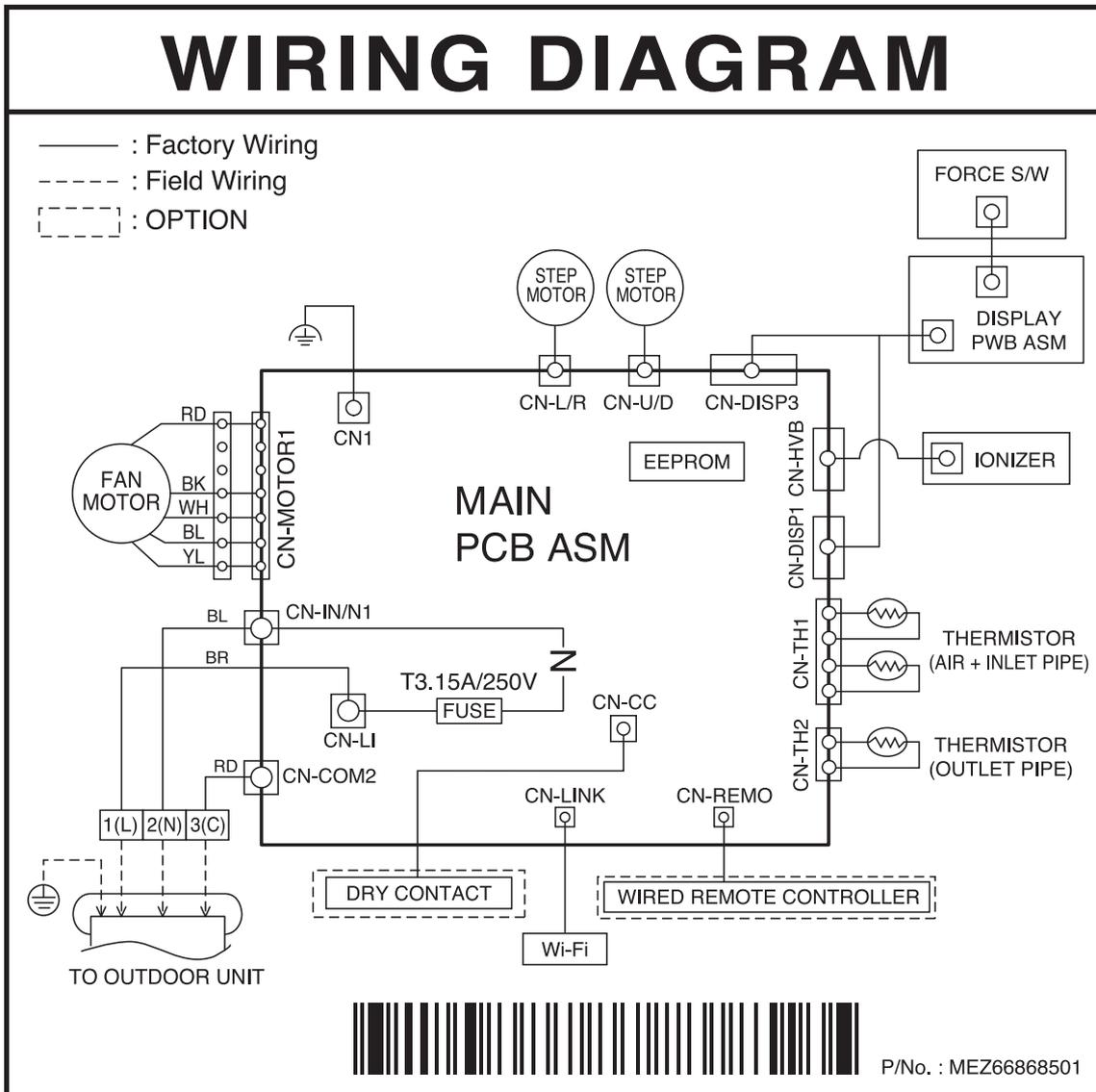
◆ Refrigerant pipe connection port diameters

Model	Gas [mm(inch)]	Liquid [mm(inch)]
AMNW07GSJ*0 AMNW09GSJ*0 AMNW12GSJ*0	Ø9.52 (3/8)	Ø6.35 (1/4)
AMNW18GSK*0 AMNW24GSK*0	Ø12.7 (1/2)	

5. Wiring Diagrams

5.1 Deluxe

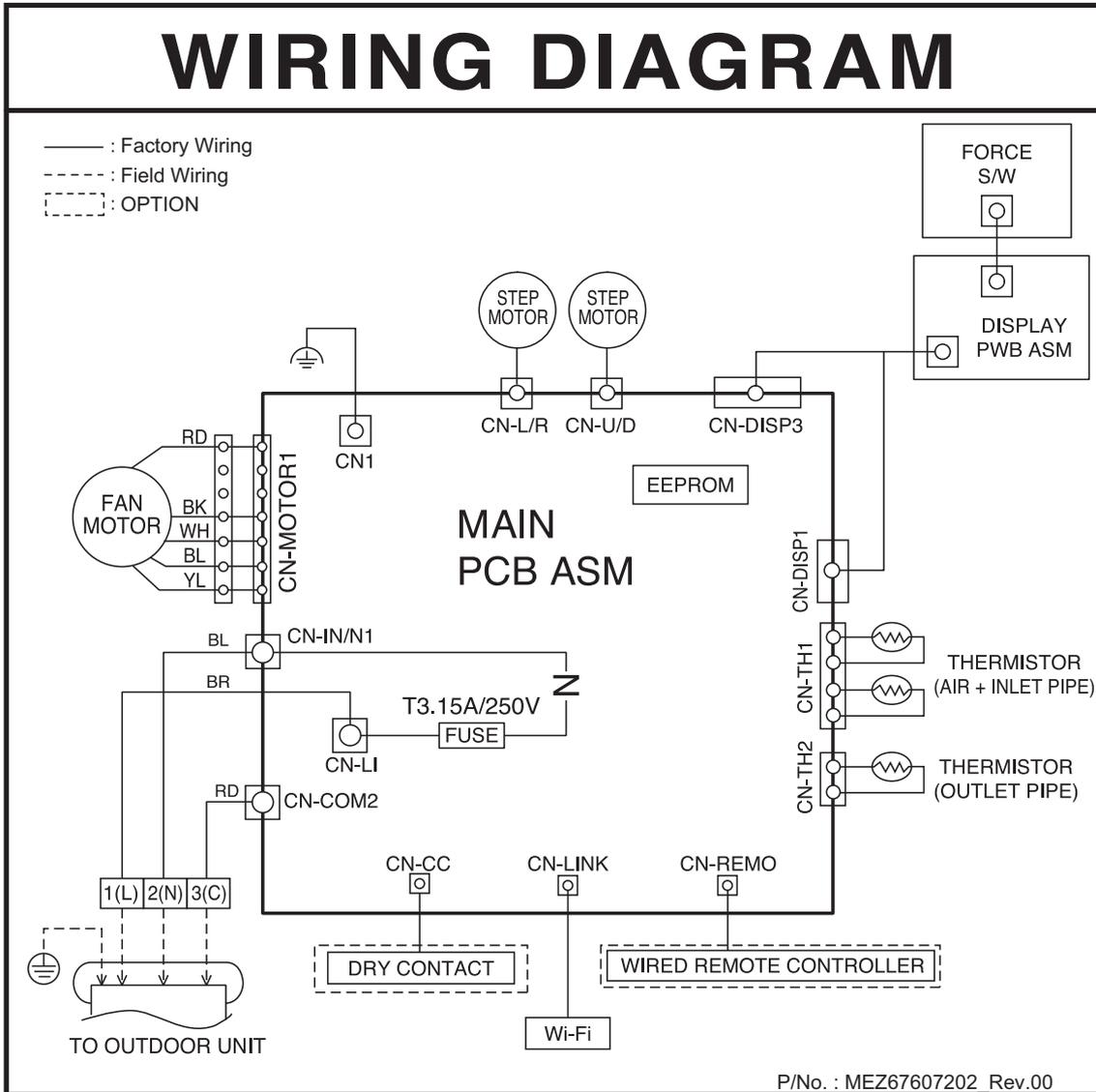
■ Model : AMNW07/09/12GSJL0, AMNW18/24GSKL0



5. Wiring Diagrams

5.2 Standard plus

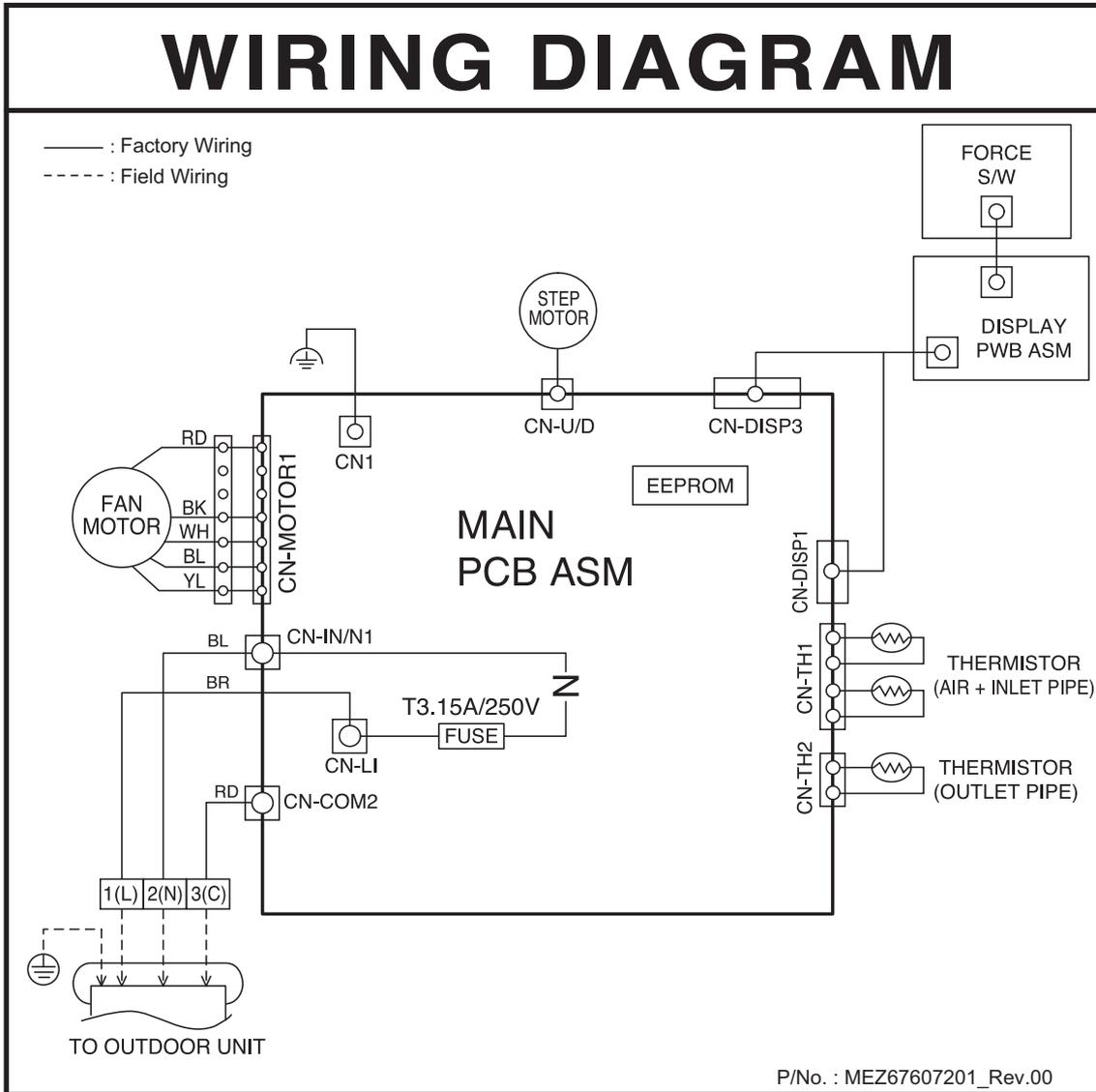
■ Models : AMNW07/09/12GSJB0, AMNW18/24GSKB0



5. Wiring Diagrams

5.3 Standard

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



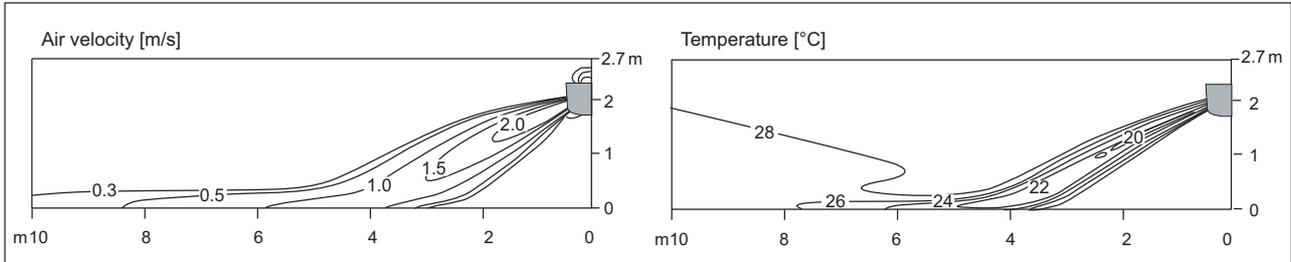
6. Air flow and temperature distributions (reference data)

■ Models : AMNW07/09/12GSJL0

◆ Cooling

Side View

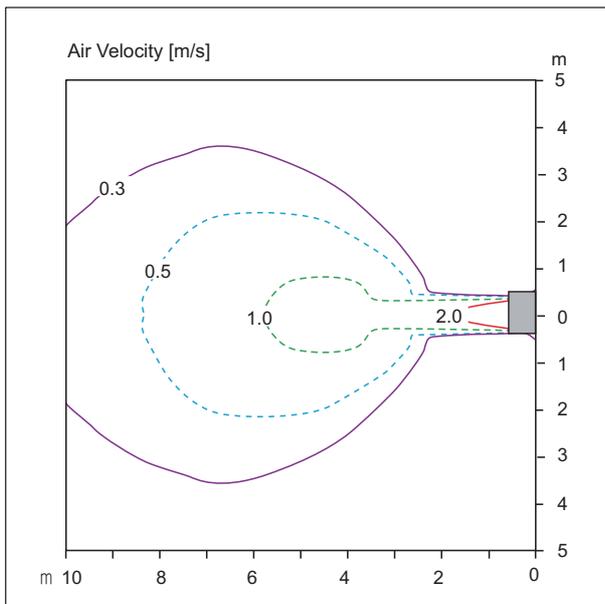
Discharge angle: 35°



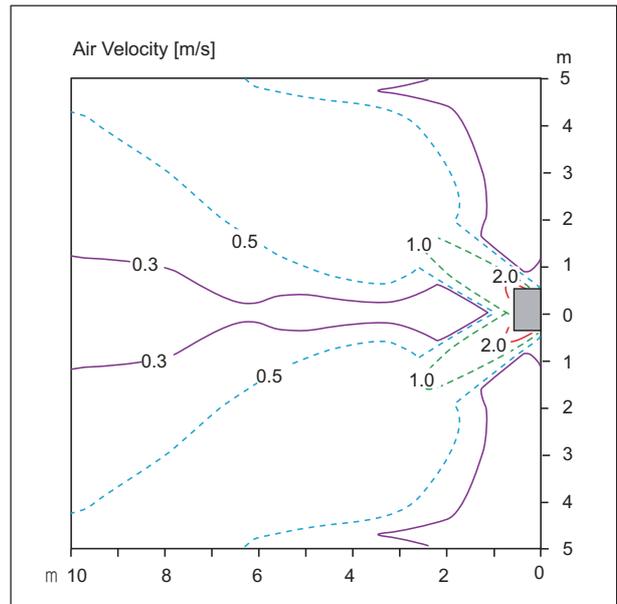
- Vertical Louver : Center
- Fan speed : Power

Top View

Discharge angle: 35°



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



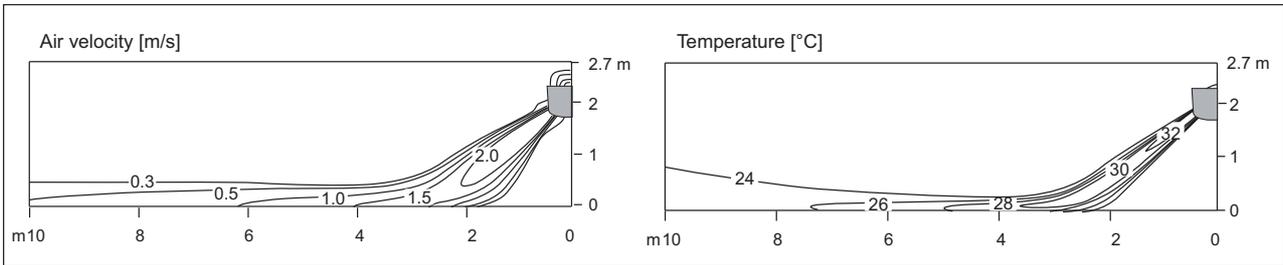
- Vertical Louver : Left & Right
- Vertical Vane : 55°
- Fan speed : Power

6. Air flow and temperature distributions (reference data)

◆ Heating

Side View

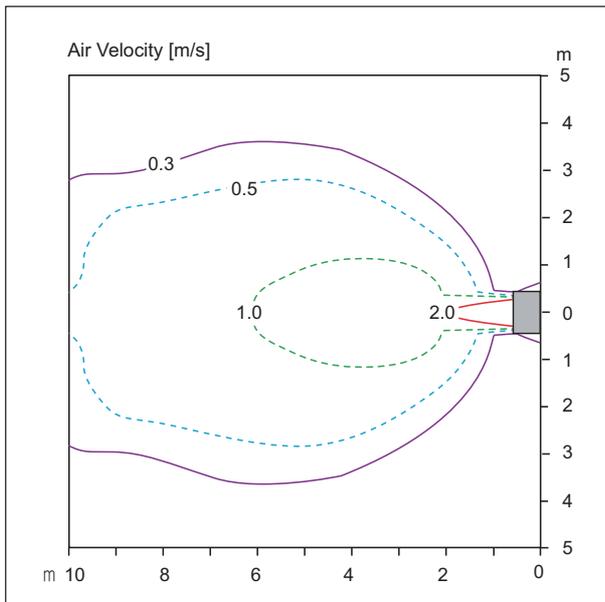
Discharge angle: 55°



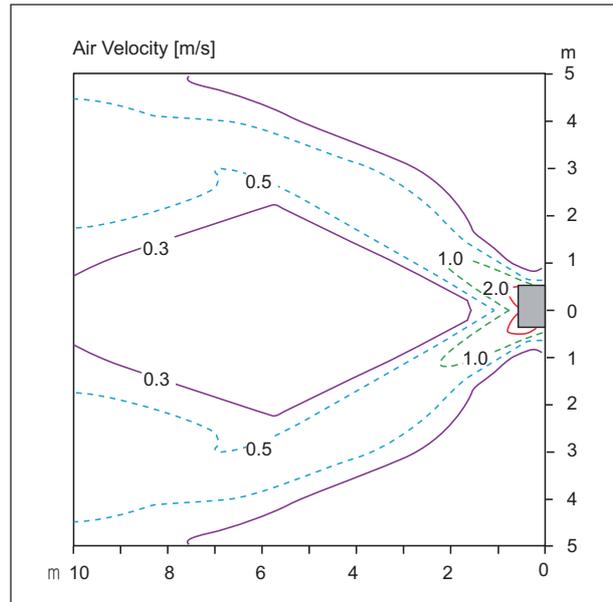
- Vertical Louver : Center
- Fan speed : Power

Top View

Discharge angle: 55°



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



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

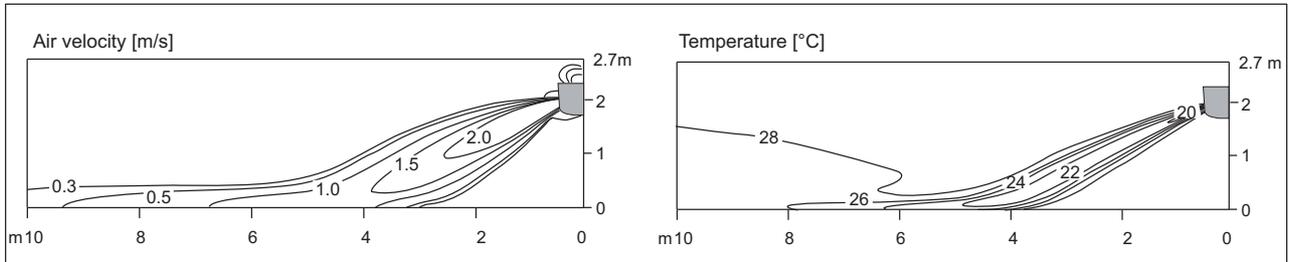
6. Air flow and temperature distributions (reference data)

■ Models : AMNW07/09/12GSJB0, AMNW07/09/12GSJA0

◆ Cooling

Side View

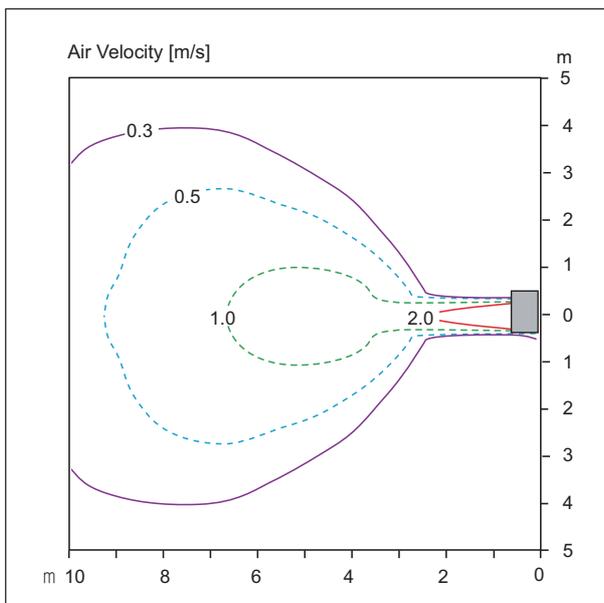
Discharge angle: 35°



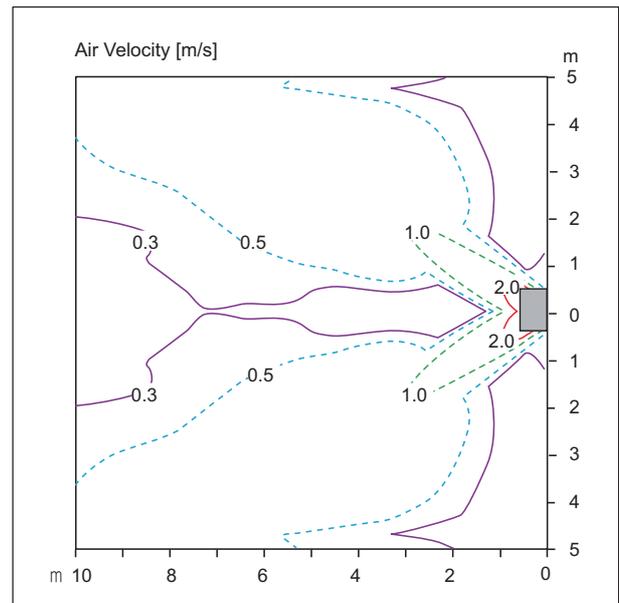
- Vertical Louver : Center
- Fan speed : Power

Top View

Discharge angle: 35°



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



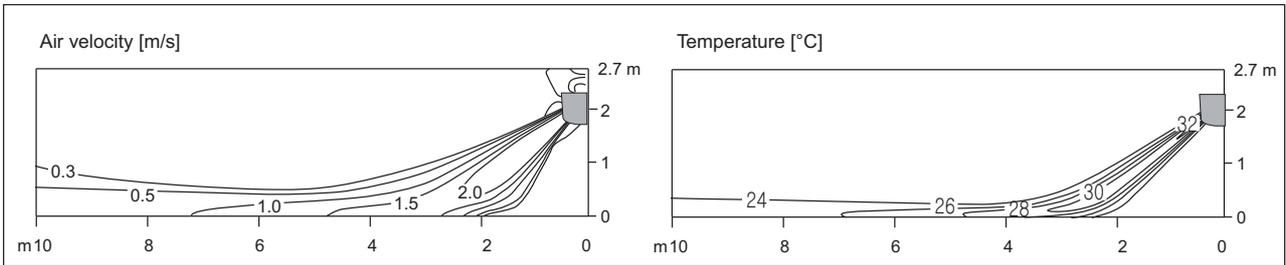
- Vertical Louver : Left & Right
- Vertical Vane : 55°
- Fan speed : Power

6. Air flow and temperature distributions (reference data)

◆ Heating

Side View

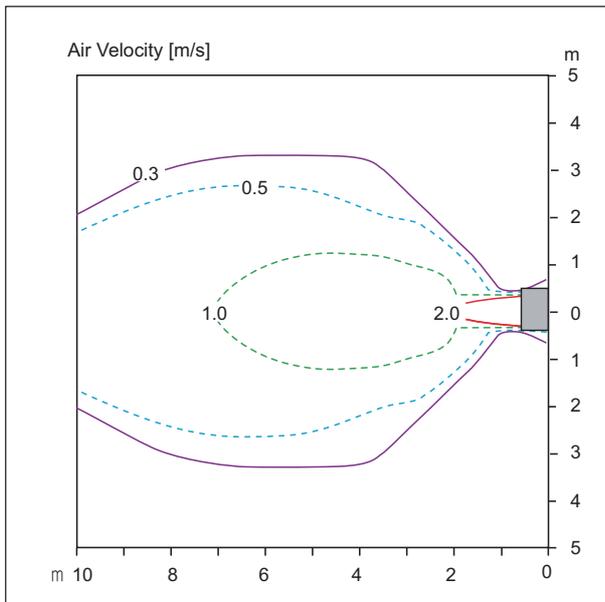
Discharge angle: 55°



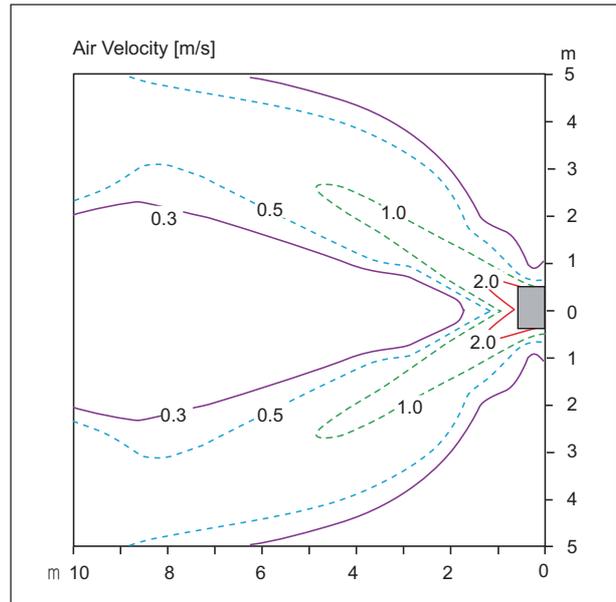
- Vertical Louver : Center
- Fan speed : Power

Top View

Discharge angle: 55°



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



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

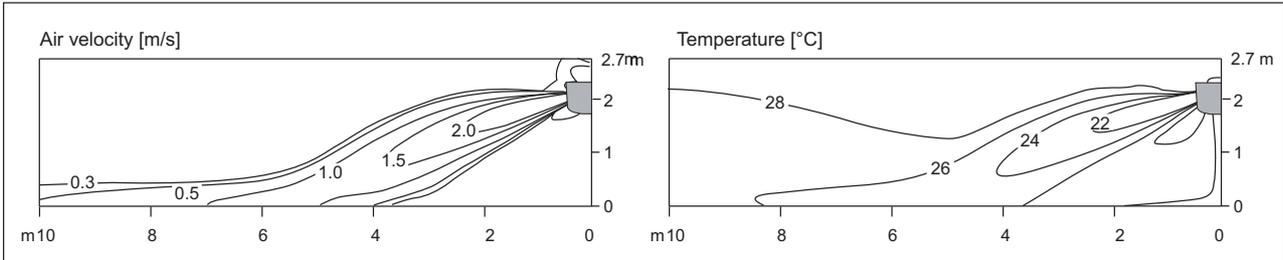
6. Air flow and temperature distributions (reference data)

■ Models : AMNW18GSKL0, AMNW18GSKB0, AMNW18GSKA0

◆ Cooling

Side View

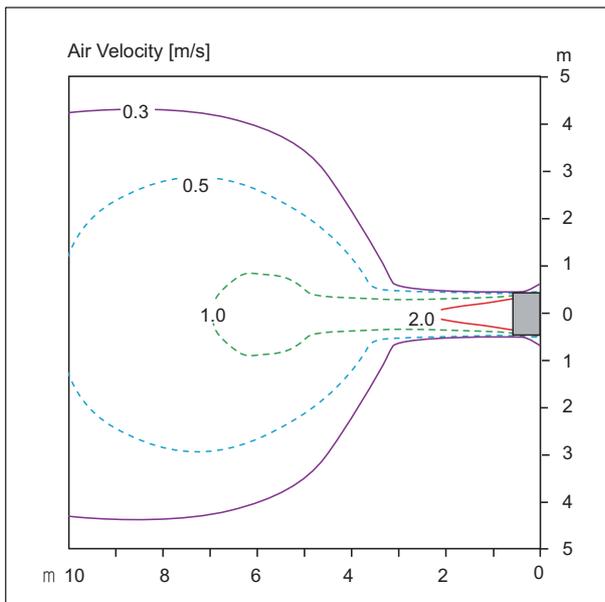
Discharge angle: 25°



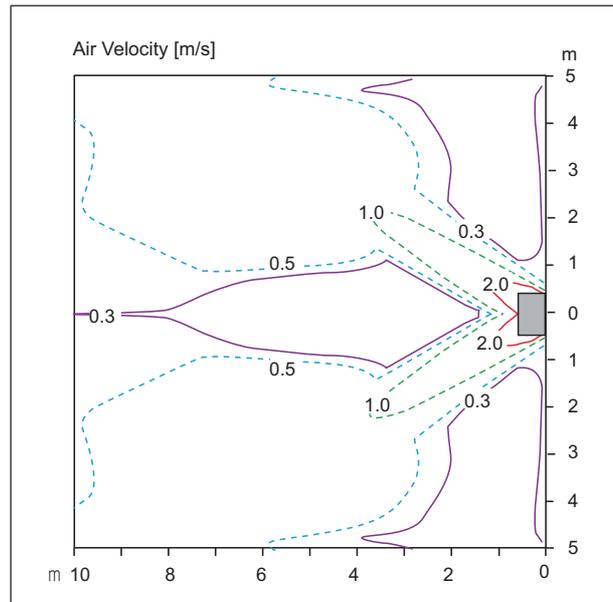
- Vertical Louver : Center
- Fan speed : Power

Top View

Discharge angle: 25°



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



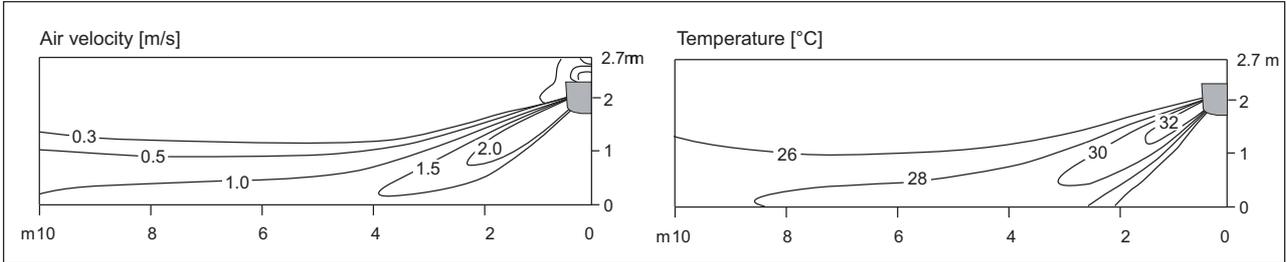
- Vertical Louver : Left & Right
- Vertical Vane : 50°
- Fan speed : Power

6. Air flow and temperature distributions (reference data)

◆ Heating

Side View

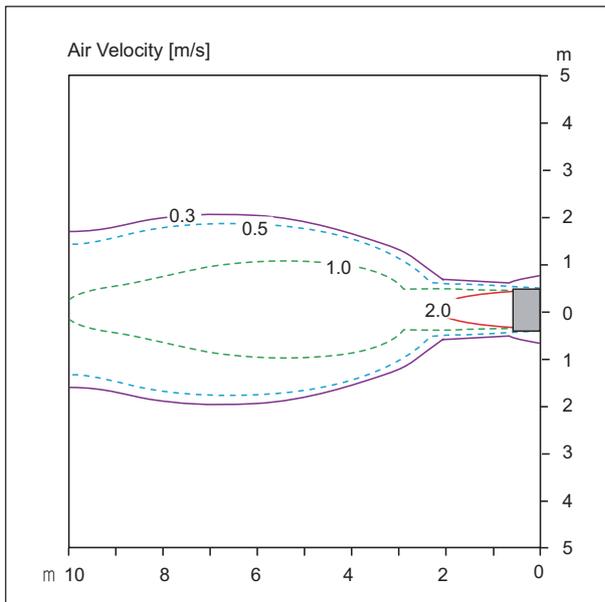
Discharge angle: 45°



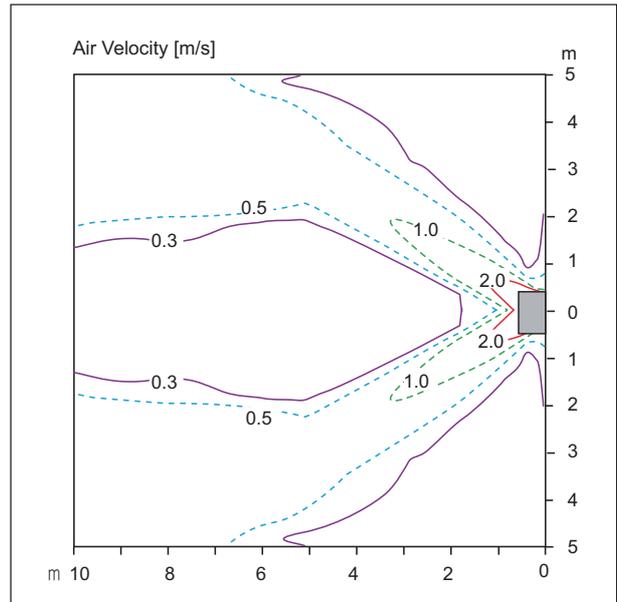
- Vertical Louver : Center
- Fan speed : Power

Top View

Discharge angle: 45°



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



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

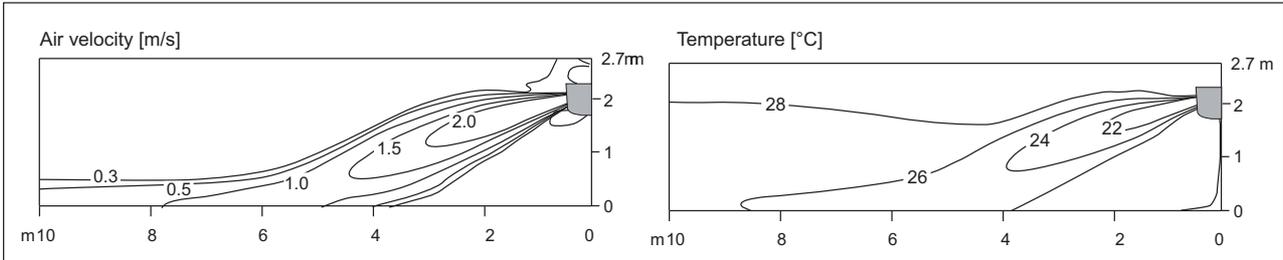
6. Air flow and temperature distributions (reference data)

■ Models : AMNW24GSKL0, AMNW24GSKB0, AMNW24GSKA0

◆ Cooling

Side View

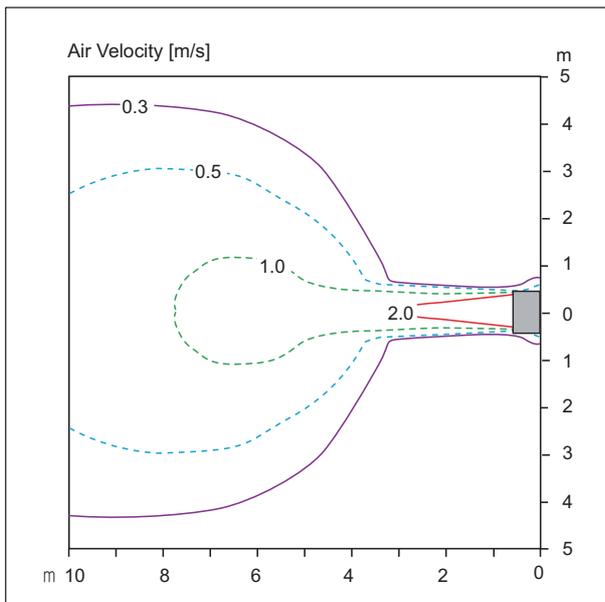
Discharge angle: 25°



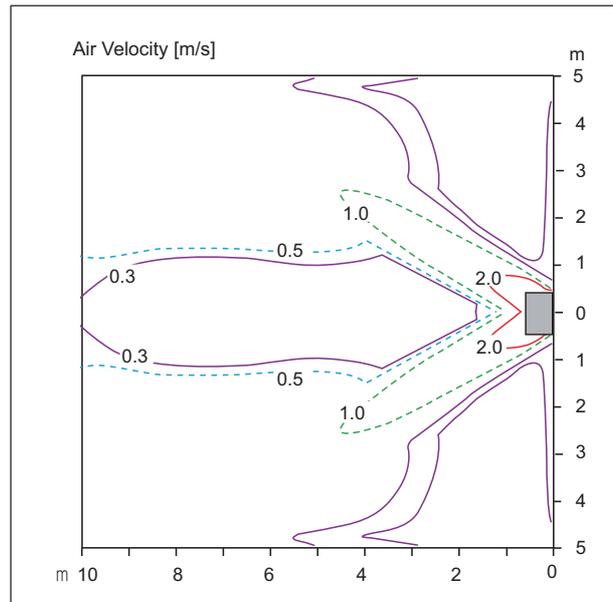
- Vertical Louver : Center
- Fan speed : Power

Top View

Discharge angle: 25°



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



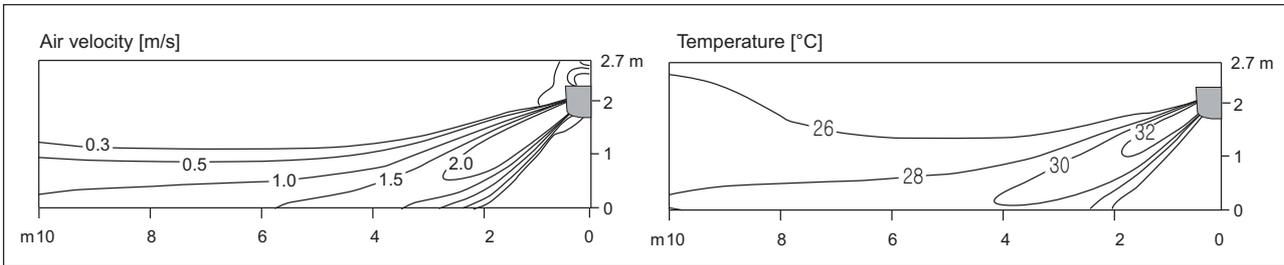
- Vertical Louver : Left & Right
- Vertical Vane : 50°
- Fan speed : Power

6. Air flow and temperature distributions (reference data)

◆ Heating

Side View

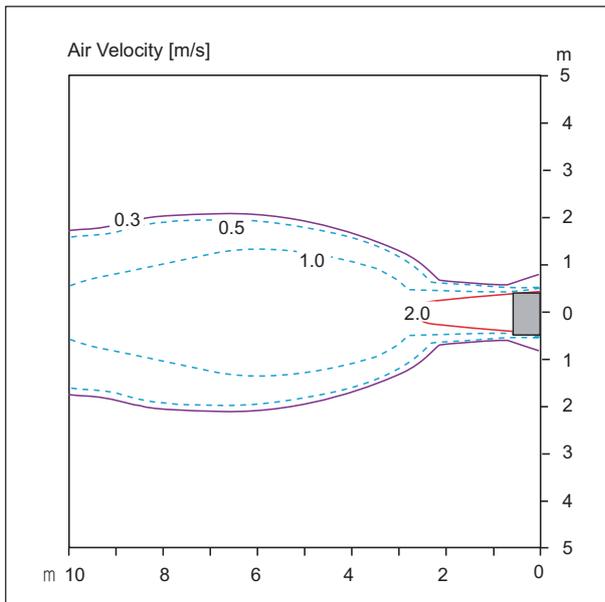
Discharge angle: 45°



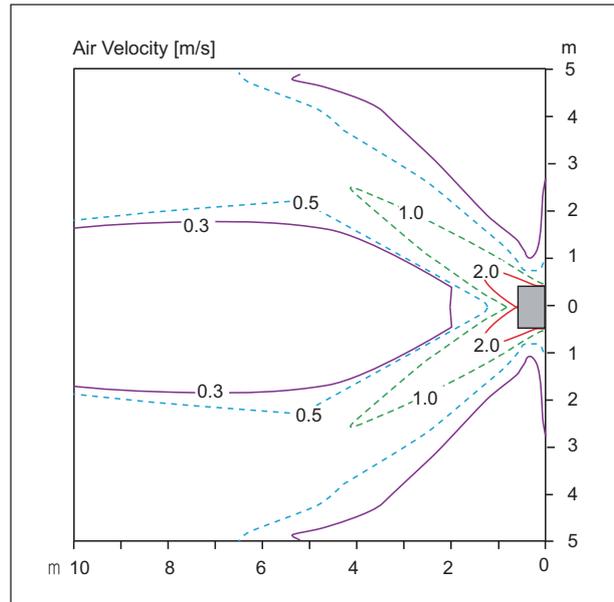
- Vertical Louver : Center
- Fan speed : Power

Top View

Discharge angle: 45°



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

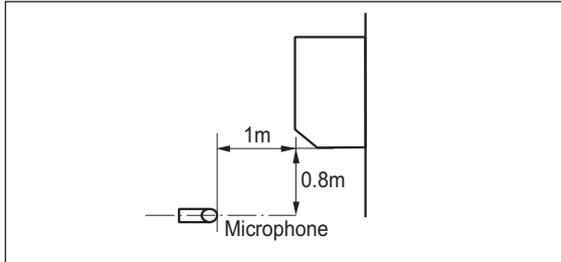


- Vertical Louver : Left & Right
- Vertical Vane : 50°
- Fan speed : Power

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.

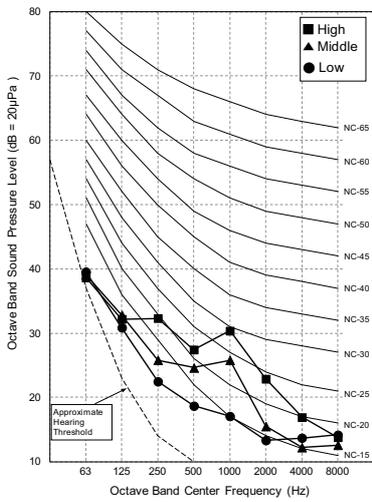
Model	Sound pressure Levels [dB(A)]		
	H	M	L
AMNW07GSJL0	35	31	26
AMNW09GSJL0	36	32	27
AMNW12GSJL0	38	34	29
AMNW18GSKL0	44	38	34
AMNW24GSKL0	46	41	36

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

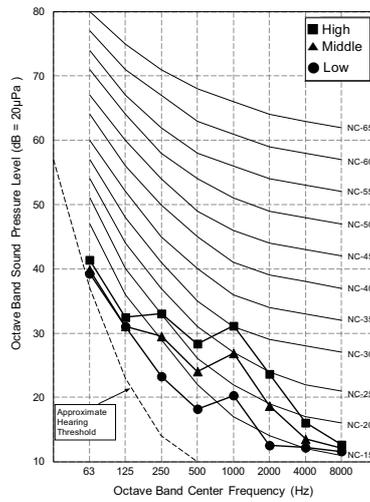
7. Sound levels

◆ Deluxe

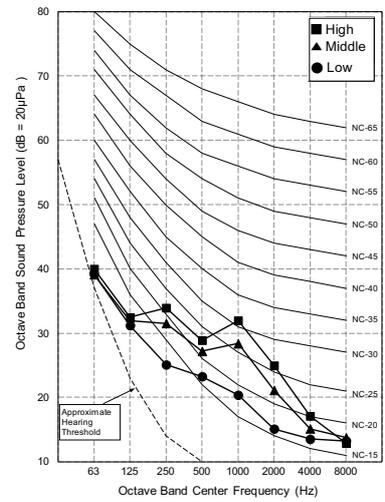
AMNW07GSJL0



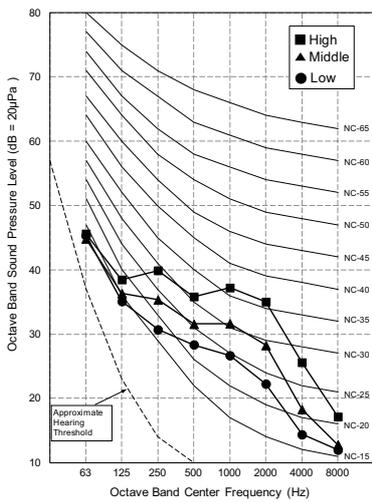
AMNW09GSJL0



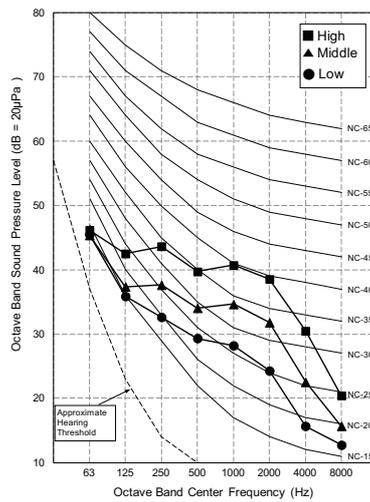
AMNW12GSJL0



AMNW18GSKL0

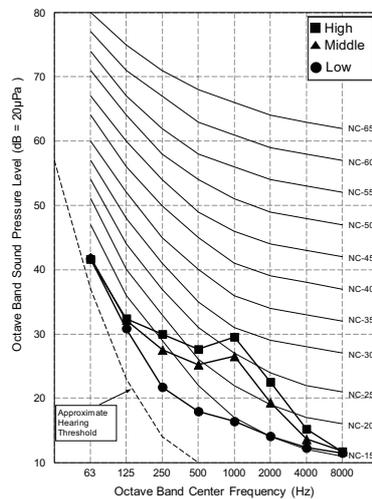


AMNW24GSKL0

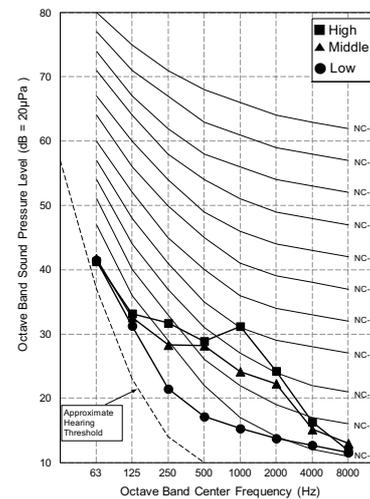


◆ Standard Plus / Standard

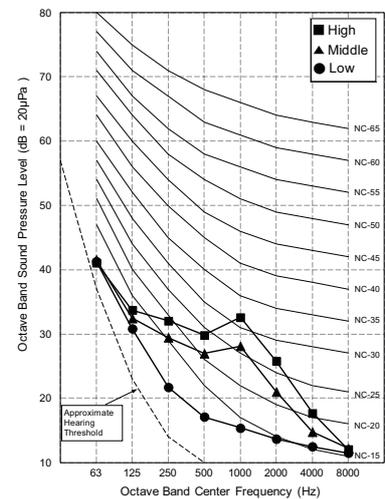
**AMNW07GSJB0
AMNW07GSJA0**



**AMNW09GSJB0
AMNW09GSJA0**

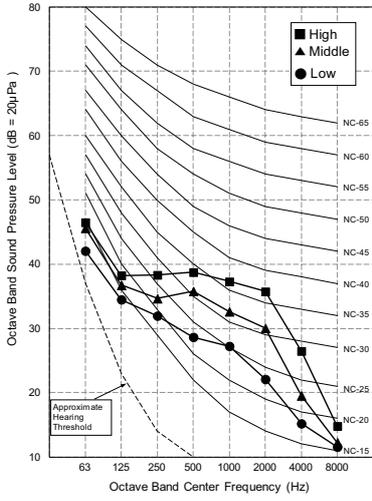


**AMNW12GSJB0
AMNW12GSJA0**

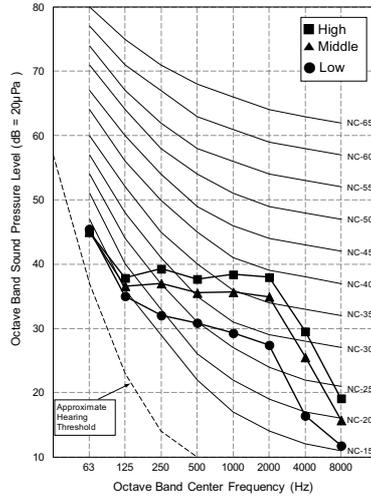


7. Sound levels

AMNW18GSKB0
AMNW18GSKA0



AMNW24GSKB0
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 = $10E-6\mu W/m^2$

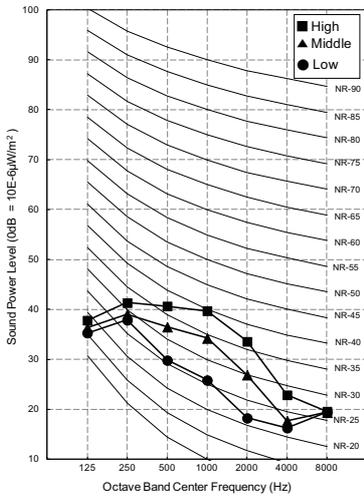
Model	Sound power Levels [dB(A)]
	H
AMNW07GSJL0	56
AMNW09GSJL0	56
AMNW12GSJL0	56
AMNW18GSKL0	60
AMNW24GSKL0	64

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

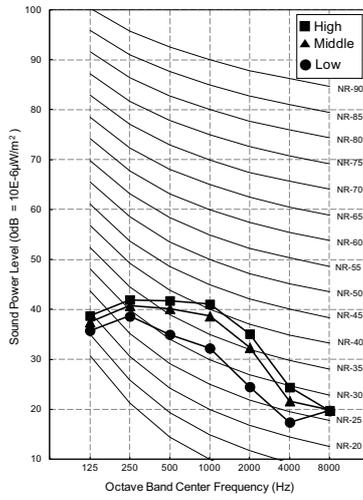
7. Sound levels

◆ Deluxe

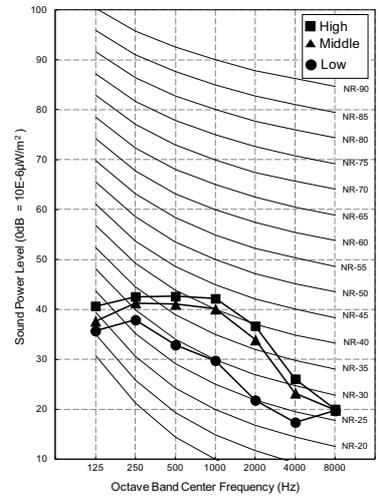
AMNW07GSJL0



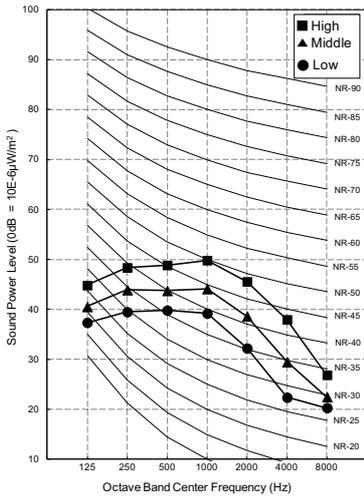
AMNW09GSJL0



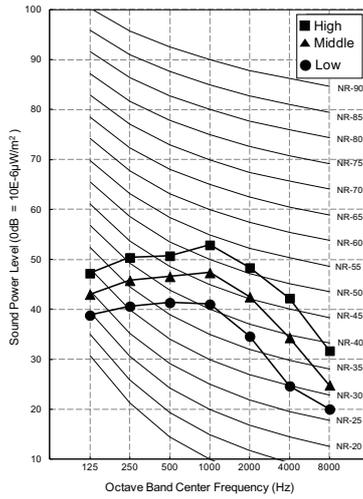
AMNW12GSJL0



AMNW18GSKL0



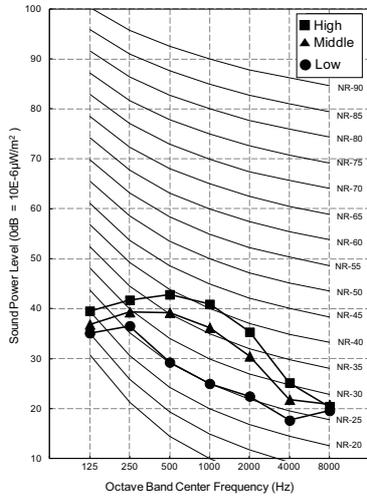
AMNW24GSKL0



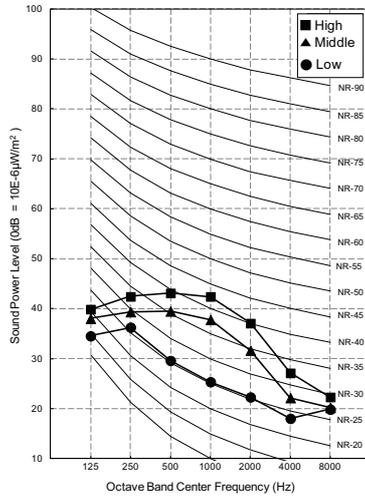
7. Sound levels

◆ Standard Plus / Standard

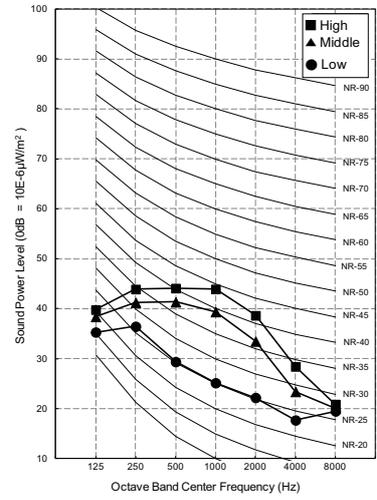
AMNW07GSJB0
AMNW07GSJA0



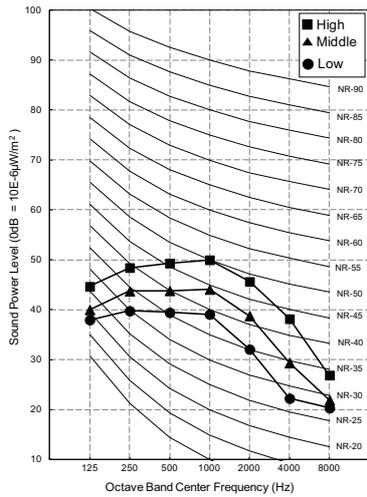
AMNW09GSJB0
AMNW09GSJA0



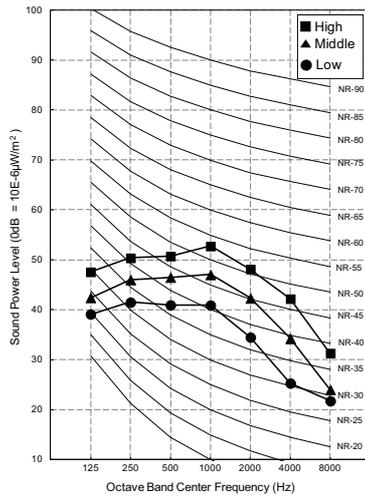
AMNW12GSJB0
AMNW12GSJA0



AMNW18GSKB0
AMNW18GSKA0



AMNW24GSKB0
AMNW24GSKA0

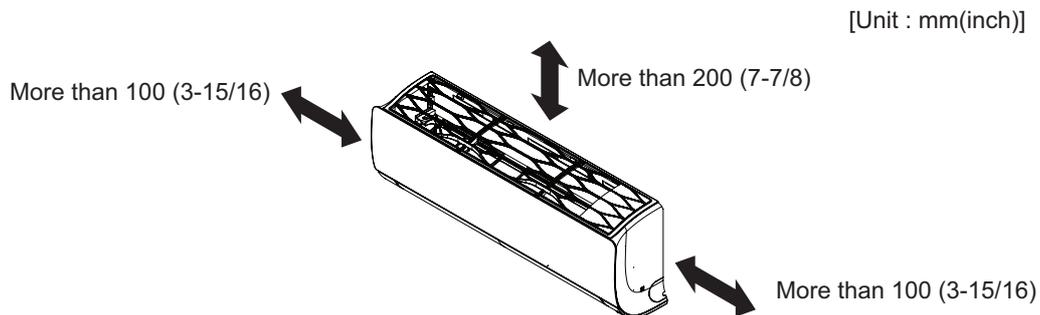


8. Installation

- 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

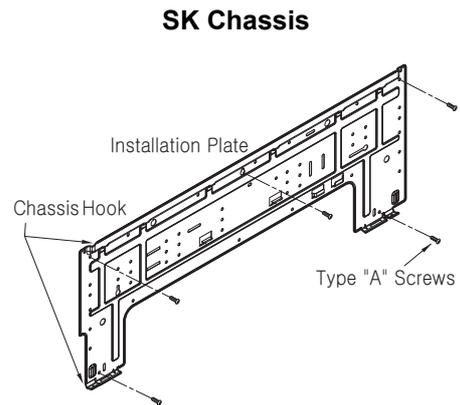
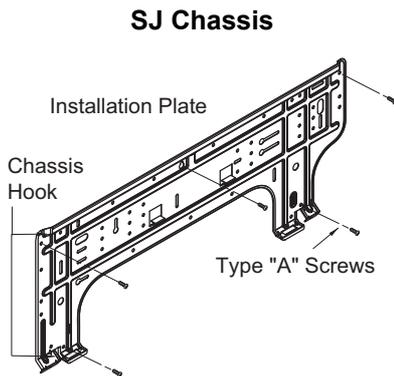
- The place where room air circulation is good.
- Do not install the unit near the door.
- There should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- The place where the indoor unit can be connected with outdoor unit easily.
- 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.



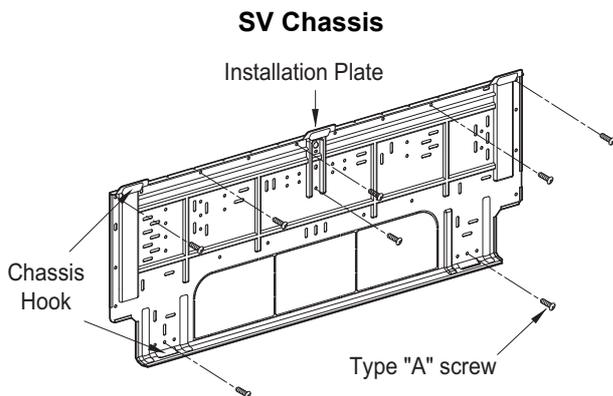
8. Installation

■ 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.

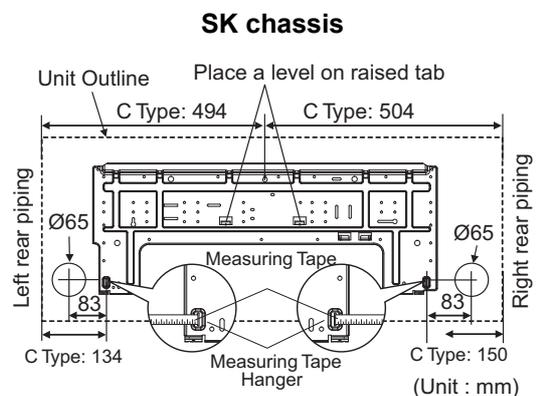
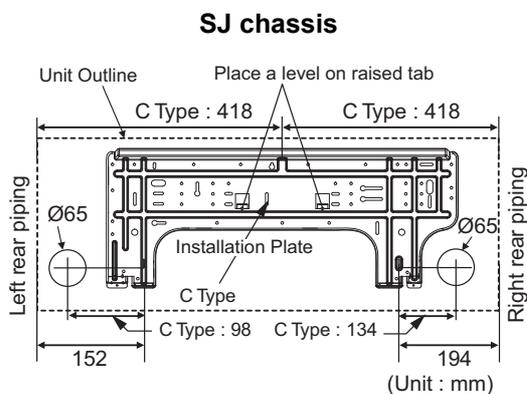


* According to product type, model line up, sales region..etc, applicability of each chassis could be different.



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

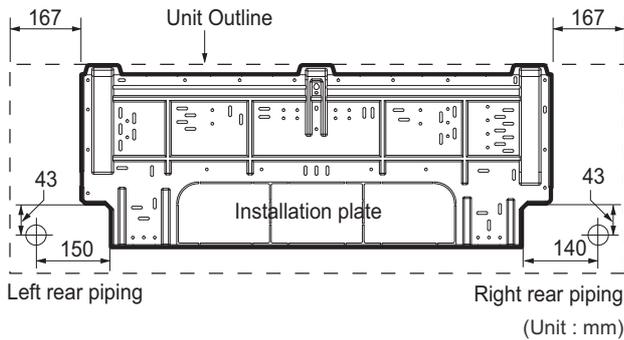
■ The lower left and the right side piping of Installation Plate



* 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

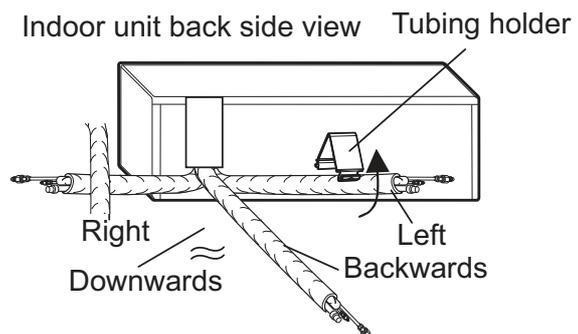
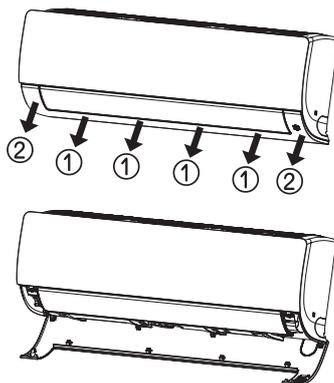
In case that the unit is installed near the sea, the installation parts may be corroded by salt. The installation parts (and the unit) should be taken appropriate anti-corrosion measures.

8.2 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.

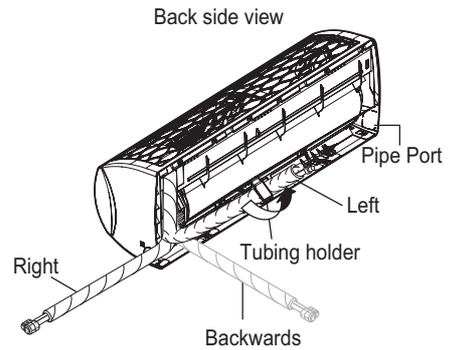
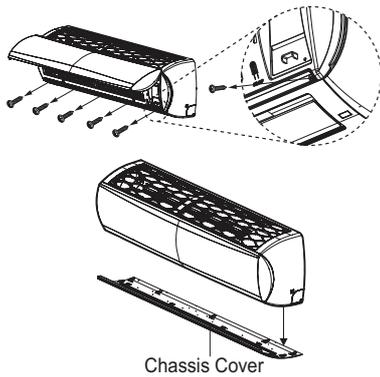
* The feature can be changed according to type of model.

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

■ SV chassis

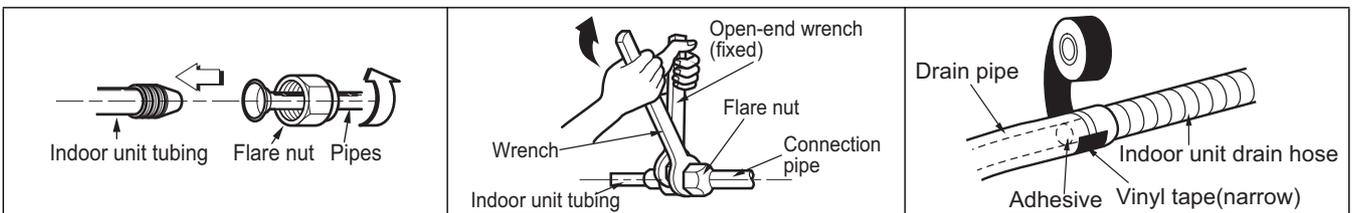
1. Open the panel of the indoor unit.
2. Remove the chassis cover from the unit by loosening 5 screws.
3. Pull back the tubing holder.
4. Remove pipe port cover and position the piping.

8. Installation



* 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.

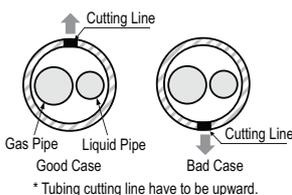
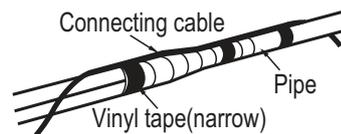
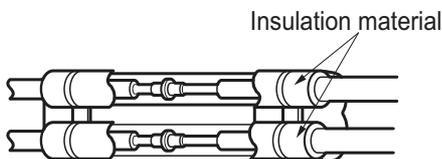
■ Connecting the installation pipe and drain hose



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

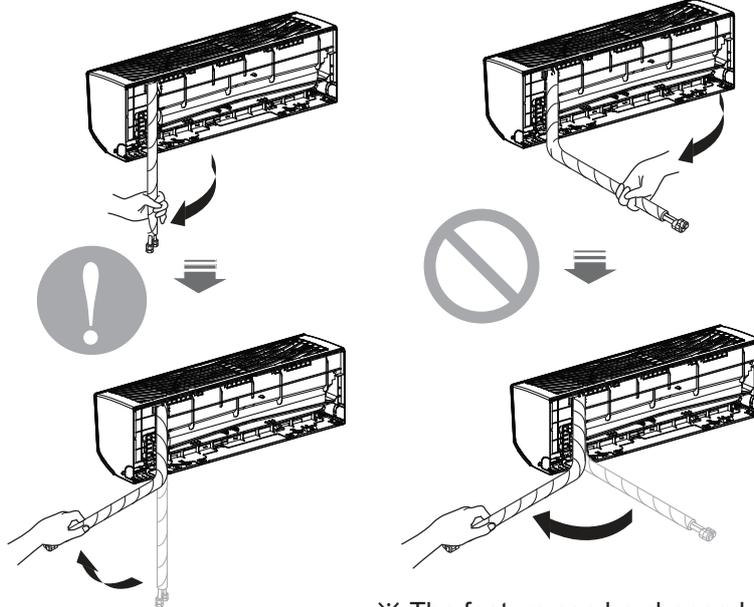
If the drain hose is routed inside the room insulate the hose with an insulation material* so that dripping from sweating condensation) will not damage furniture or floors.

8. Installation

* Foamed polyethylene or equivalent is recommended.

⚠ 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.



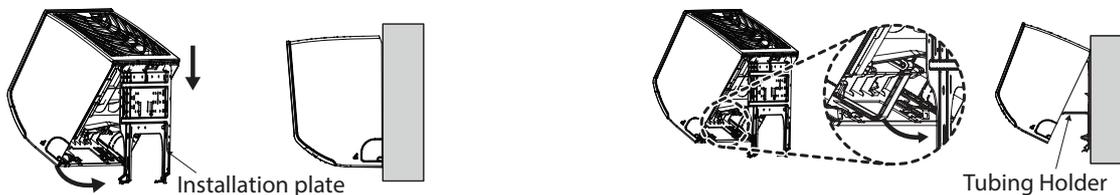
※ The feature can be changed according to type

- 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.

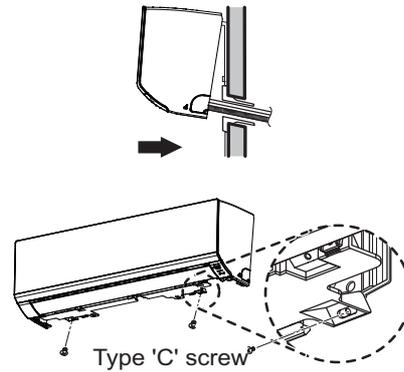


* The feature can be changed according to type of model.

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.

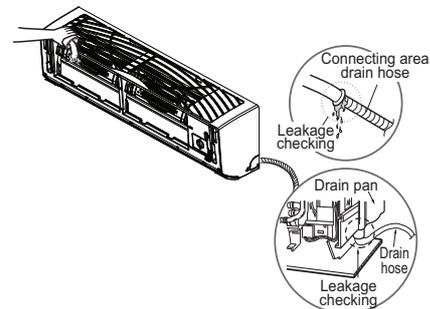
CAUTION

- 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.

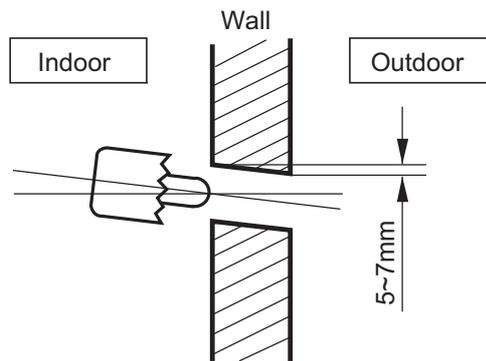


* The feature can be changed according to type of model.

8. Installation

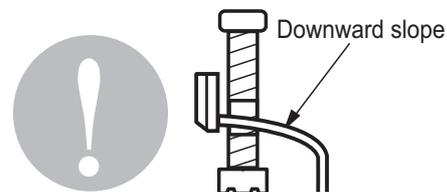
◆ Drill a Hole in the wall

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.

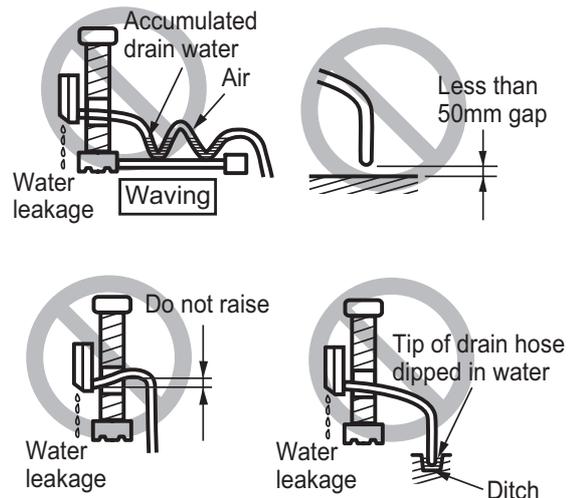


◆ Drain Piping

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.

8.3 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:

8. Installation

- 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 0.75mm² 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.
-

WARNING

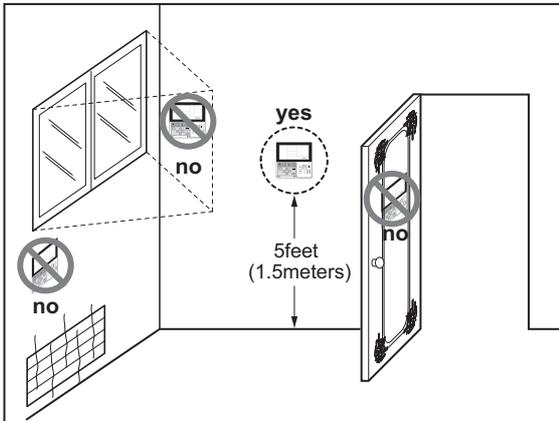
- Make sure that the screws of the terminal are fixed tightly.
 - The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (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.

8. Installation

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.Controller**
- 9.Installation**

1. List of functions

◆ Basic functions of Indoor Unit

Category	Functions	AMNW07GSJR0, AMNW09GSJR0, AMNW12GSJR0 AMNW18GSKR0, AMNW24GSKR0
Air flow	Air supply outlet	1
	Airflow direction control (left & right)	O (5 Steps)
	Airflow direction control (up & down)	O (6 Steps)
	Auto swing (left & right)	O
	Auto swing (up & down)	O
	Airflow steps (fan/cool/heat)	6 / 6 / 6
	Chaos wind(auto wind)	O
	Jet cool/heat	O / O
	Swirl wind	X
	Comfort Air	O
Air purifying	Triple filter (Deodorizing)	X
	Air purifier (Plasma)	X
	Air purifier (Ionizer)	O
	Allergy Safe filter	X
	Long-life prefilter (washable / anti-fungus)	O
Installation	Drain pump	X
	E.S.P. control*	X
	Electric heater	X
	High ceiling operation*	X
Reliability	Hot start	O
	Self diagnosis	O
Convenience	Auto changeover	X
	Auto cleaning	O
	Auto operation(artificial intelligence)	O
	Auto Restart	O
	Child lock*	O
	Forced operation	O
	Group control*	X
	Sleep mode	O (7hr)
	Timer(on/off)	O
	Timer(weekly)*	O
	Two thermistor control*	O
Auto Elevation Grille	X	
Special Functions	Wi-Fi	O
	Humidity Control	X
Comes with product	Wireless Remote Controller	O**
	Wired Remote Controller	X
Network Solution(LGAP)		O

Note

- O : Applied, X : Not applied
Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.
- Some functions can be limited by remote controller.
- In case of ducted type indoor units using the wireless remote controller, it needs to connect the wired remote controller for received the signal of that.
- In case of cassette type indoor units, Plasma kit and Auto Elevation Grille functions are not applicable at the same time.
- * : These functions need to connect the wired remote controller.
- ** : It is included by default when the product is manufactured.

1. List of functions

◆ Network solution Accessory List

Category		Product	Remark	AMNW07GSJR0 AMNW09GSJR0 AMNW12GSJR0 AMNW18GSKR0 AMNW24GSKR0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	Standard	PREMTB001	Standard (White)	O
		PREMTBB01	Standard (Black)	O
		PREMTB100**	New Standard (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	-	O
		PDRYCB500	Dry Contact For Modbus	X
Gateway	IDU PI485	PHNFP14A0	Connected with the Indoor Units	X
		PSNFP14A0	Connected with the Indoor Units	X
ETC	Remote temperature sensor	PQRSTA0	-	X
	Zone controller	ABZCA	-	X
	Electronic thermostat	AQETC	-	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
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> Download> Manuals)

2. Specifications

Model Name				AMNW07GSJR0	AMNW09GSJR0
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 / 17 / 30	11 / 18 / 30
Running Current	Min./Nom./Max.		A	0.10 / 0.14 / 0.20	0.10 / 0.16 / 0.20
Exterior Color code			-	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	
			-	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					
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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.					
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 Zero.					

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

- 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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
- 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 Zero.

2. Specifications

Model Name			AMNW18GSKR0	AMNW24GSKR0	
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.	26 / 39 / 60	27 / 45 / 60	
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.	30 × 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)

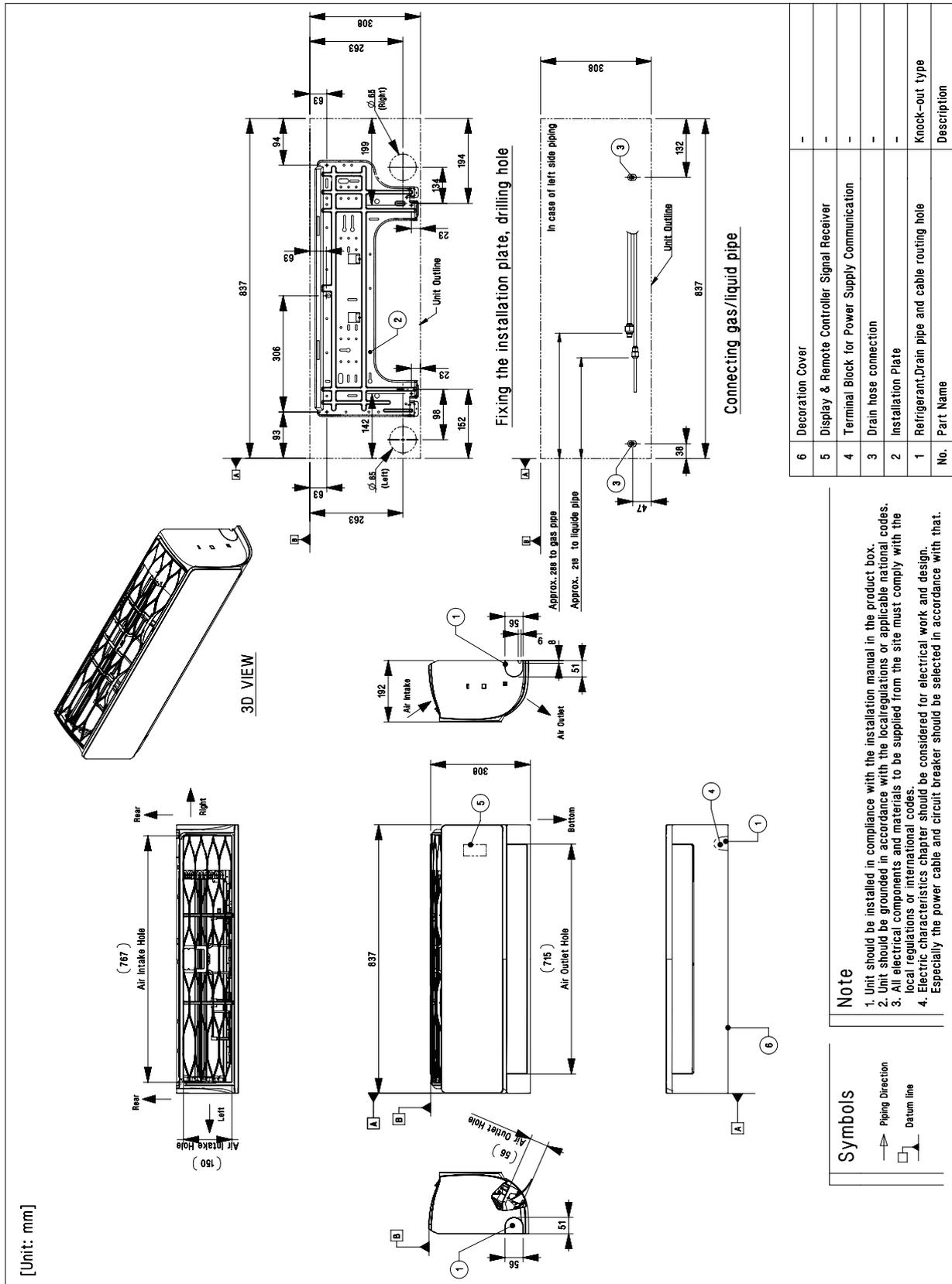
Note

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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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 Zero.

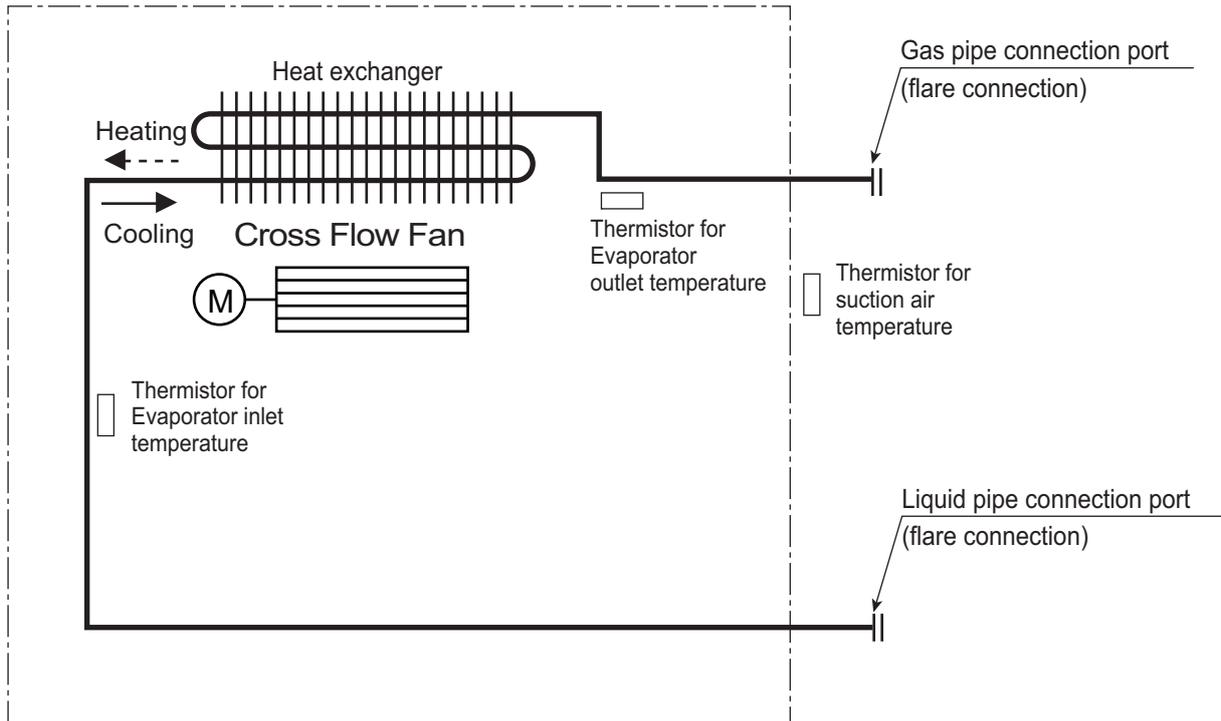
3. Dimensions

◆ ARTCOOL Mirror (SJ Chassis)

AMNW07GSJR0, AMNW09GSJR0, AMNW12GSJR0



4. Piping diagrams



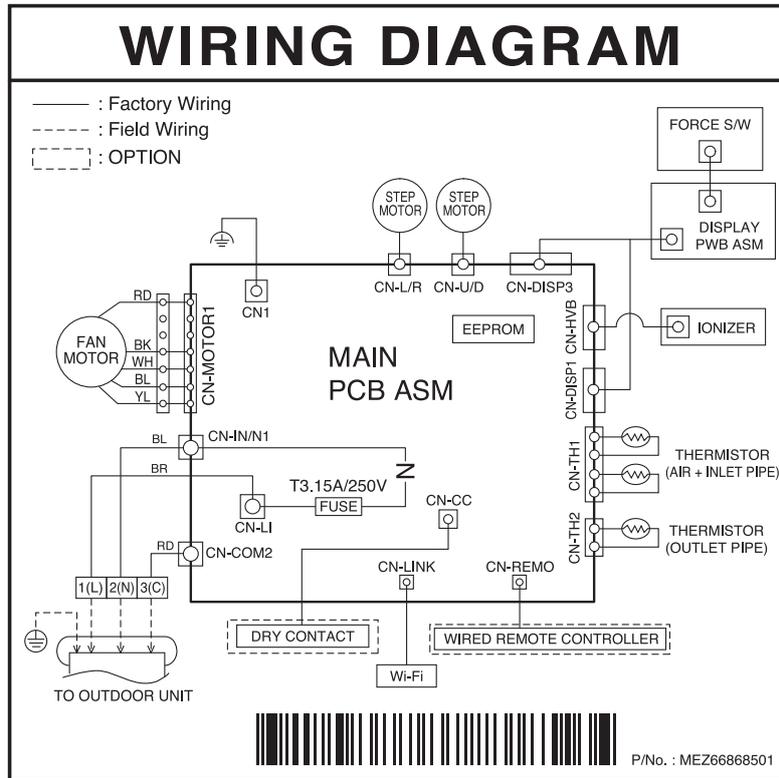
Description	PCB Connector
Thermistor for suction air temperature	CN-TH1
Thermistor for evaporator inlet temperature	
Thermistor for evaporator outlet temperature	CN-TH2

◆ Refrigerant pipe connection port diameters

Model	Gas [mm(inch)]	Liquid [mm(inch)]
AMNW07GSJR0 AMNW09GSJR0 AMNW12GSJR0	Ø9.52 (3/8)	Ø6.35 (1/4)
AMNW18GSKR0 AMNW24GSKR0	Ø12.7 (1/2)	

5. Wiring Diagrams

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



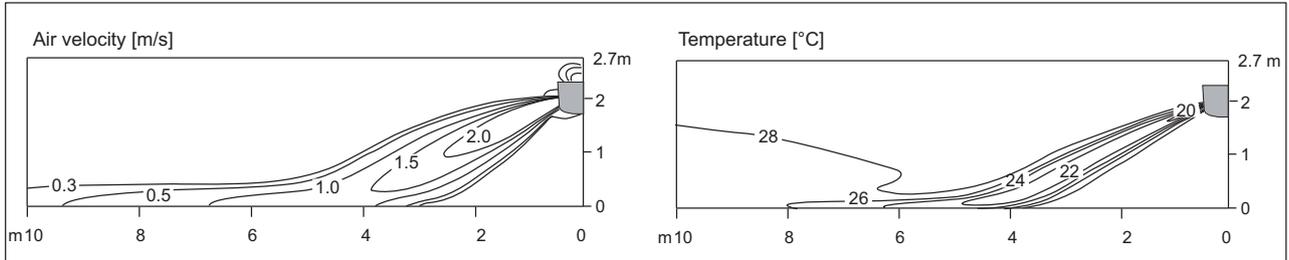
6. Air flow and temperature distributions (reference data)

■ Models : AMNW07/09/12GSJR0

◆ Cooling

Side View

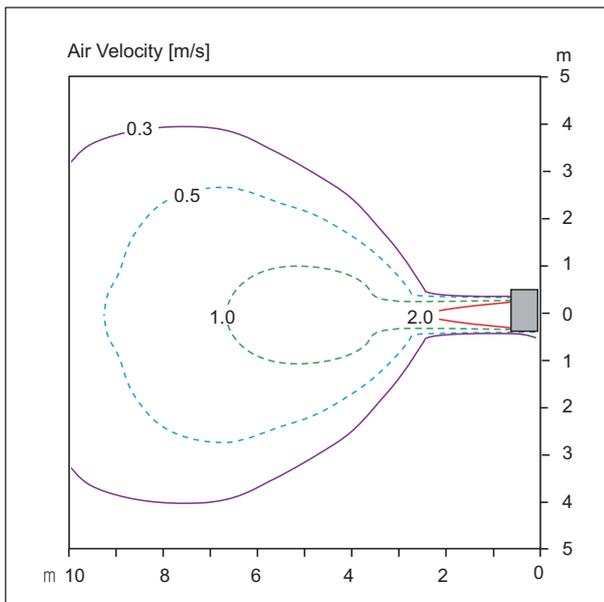
Discharge angle: 35°



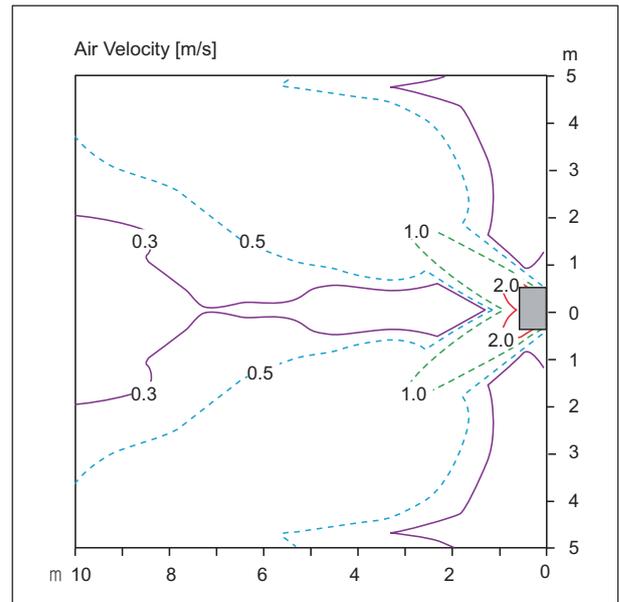
- Vertical Louver : Center
- Fan speed : Power

Top View

Discharge angle: 35°



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



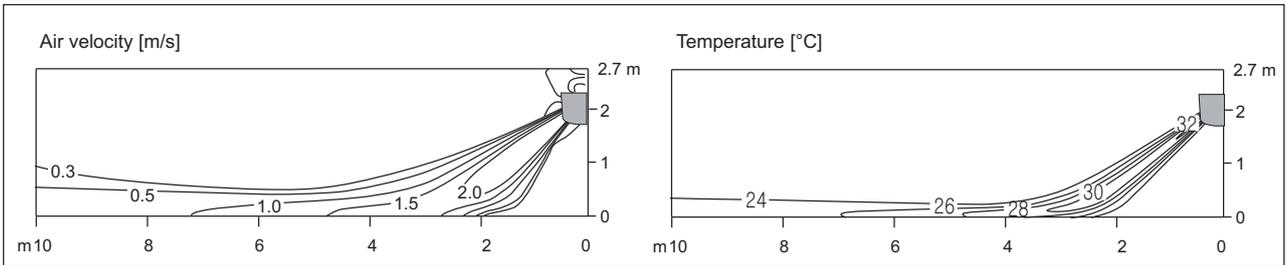
- Vertical Louver : Left & Right
- Vertical Vane : 55°
- Fan speed : Power

6. Air flow and temperature distributions (reference data)

◆ Heating

Side View

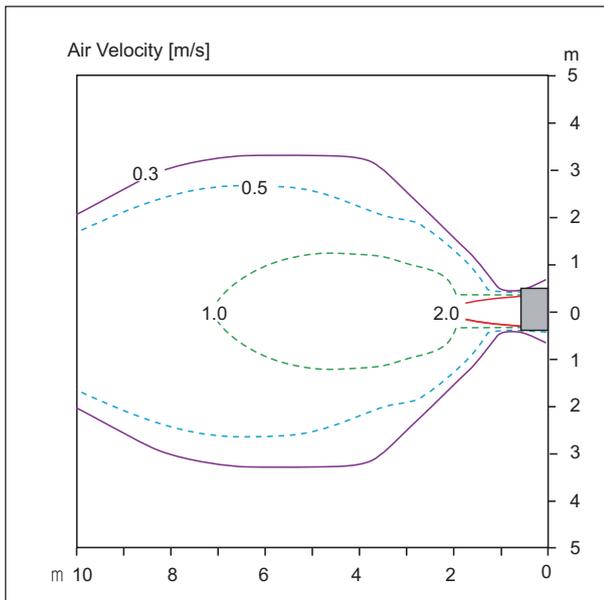
Discharge angle: 55°



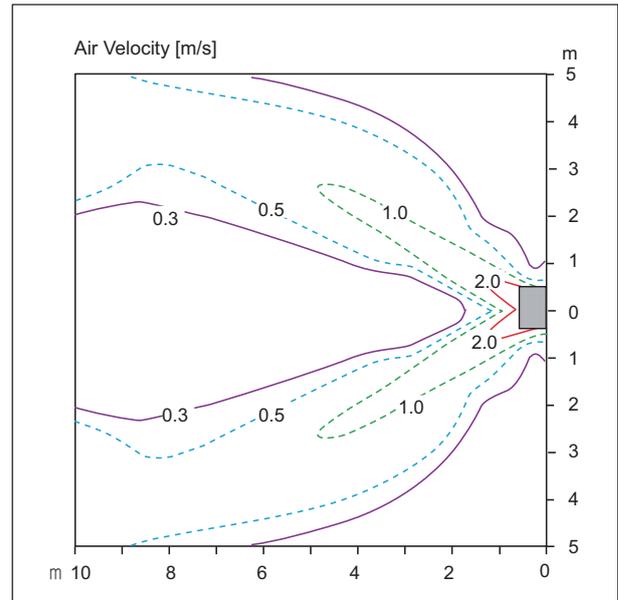
- Vertical Louver : Center
- Fan speed : Power

Top View

Discharge angle: 55°



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



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

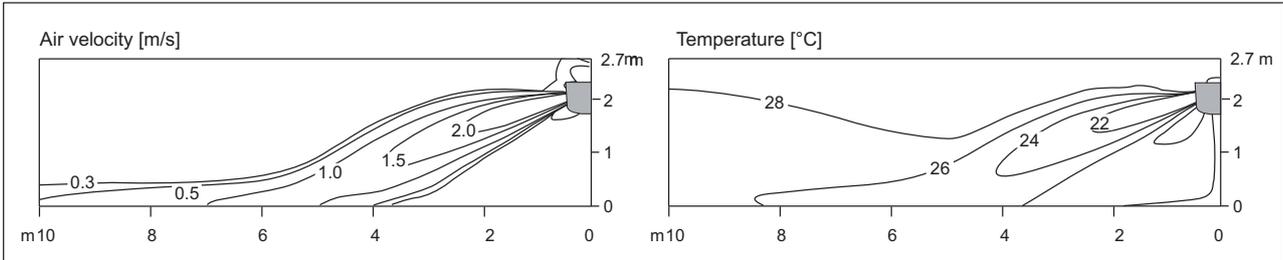
6. Air flow and temperature distributions (reference data)

■ Models : AMNW18GSKR0

◆ Cooling

Side View

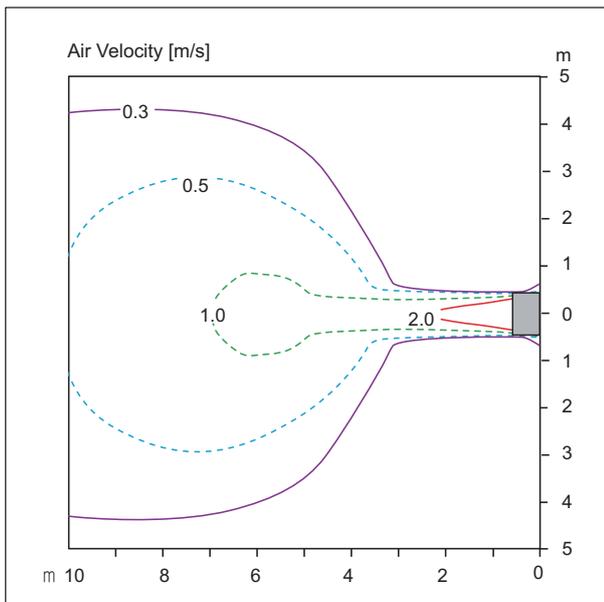
Discharge angle: 25°



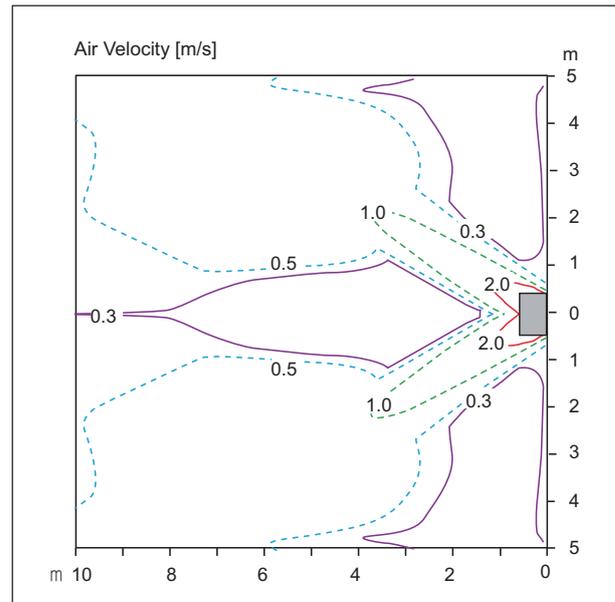
- Vertical Louver : Center
- Fan speed : Power

Top View

Discharge angle: 25°



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



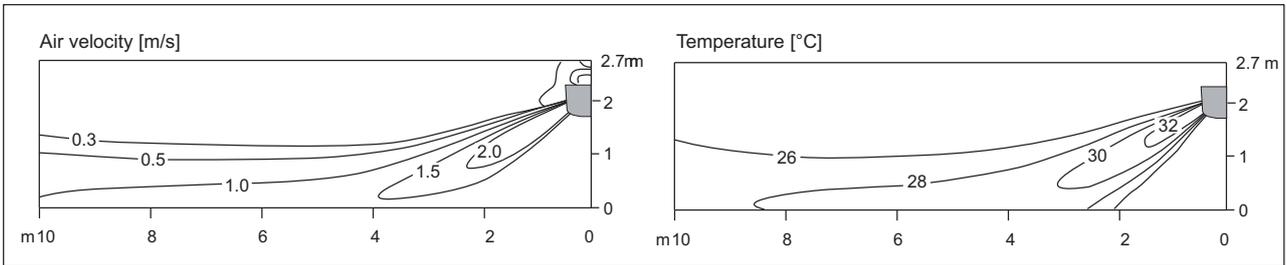
- Vertical Louver : Left & Right
- Vertical Vane : 50°
- Fan speed : Power

6. Air flow and temperature distributions (reference data)

◆ Heating

Side View

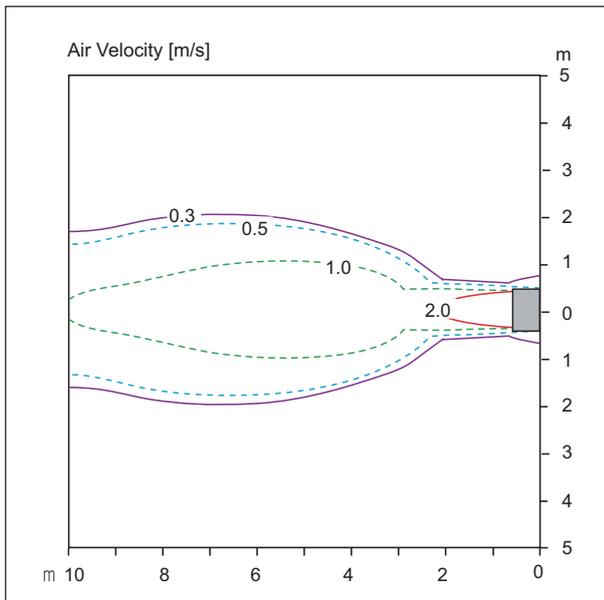
Discharge angle: 45°



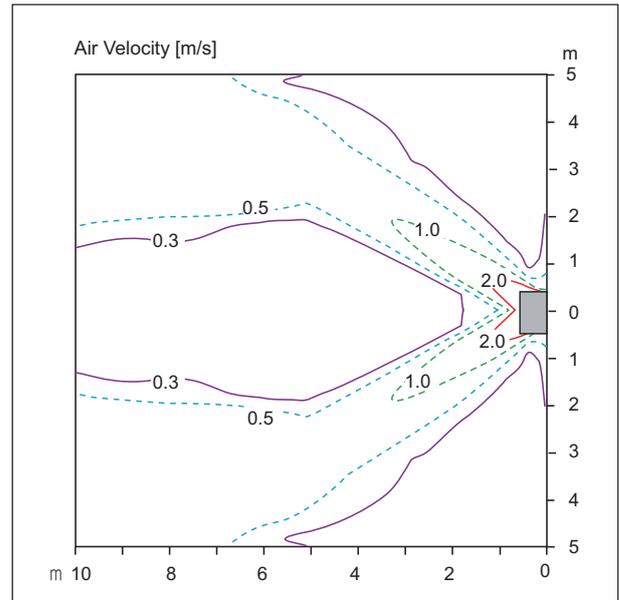
- Vertical Louver : Center
- Fan speed : Power

Top View

Discharge angle: 45°



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



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

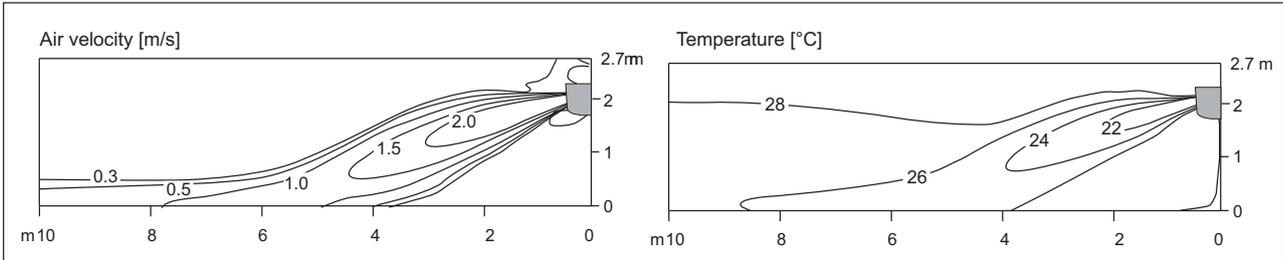
6. Air flow and temperature distributions (reference data)

■ Models : AMNW24GSKR0

◆ Cooling

Side View

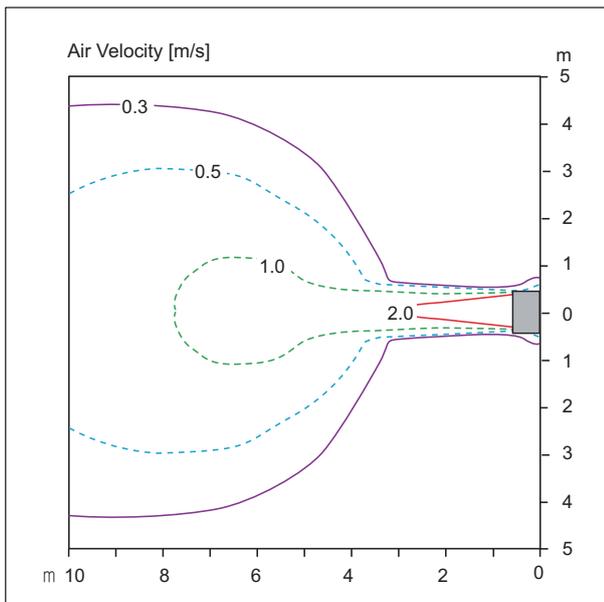
Discharge angle: 25°



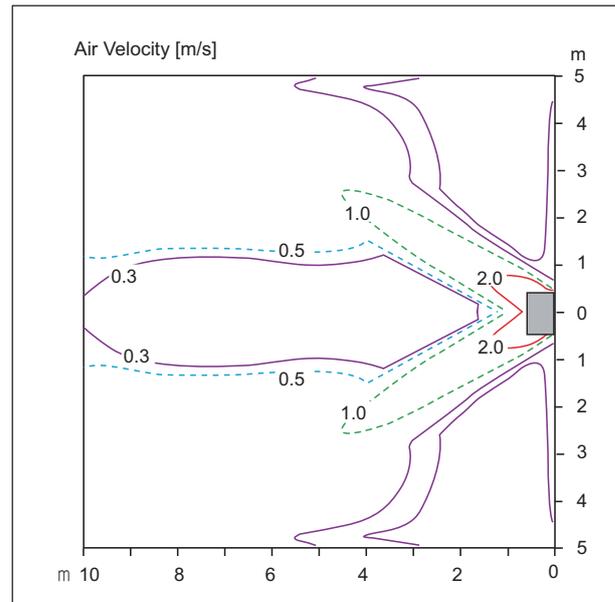
- Vertical Louver : Center
- Fan speed : Power

Top View

Discharge angle: 25°



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



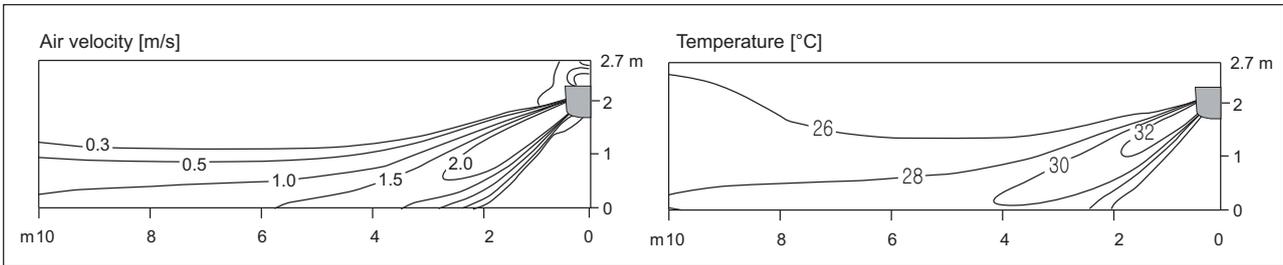
- Vertical Louver : Left & Right
- Vertical Vane : 50°
- Fan speed : Power

6. Air flow and temperature distributions (reference data)

◆ Heating

Side View

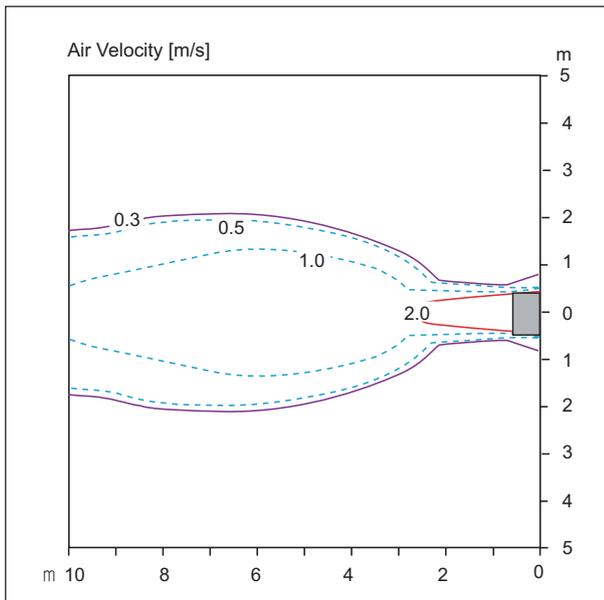
Discharge angle: 45°



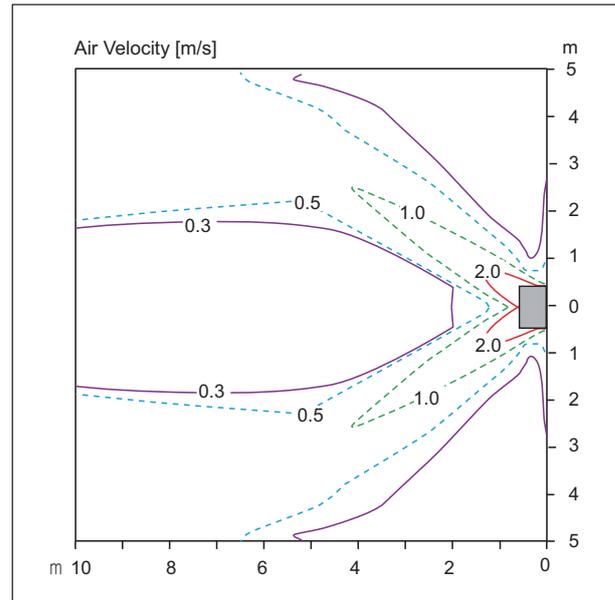
- Vertical Louver : Center
- Fan speed : Power

Top View

Discharge angle: 45°



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

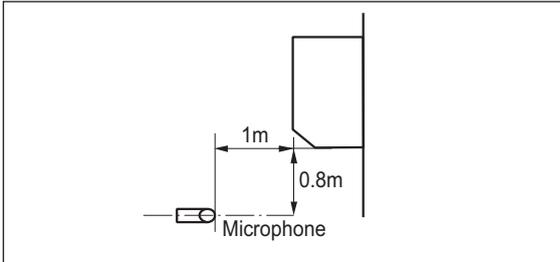


- Vertical Louver : Left & Right
- Vertical Vane : 50°
- Fan speed : Power

7. Sound levels

7.1 Sound pressure level

Overall

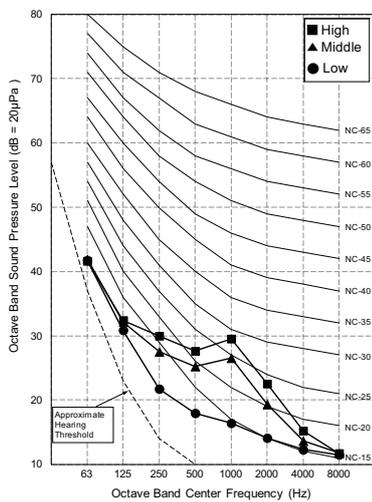


Note

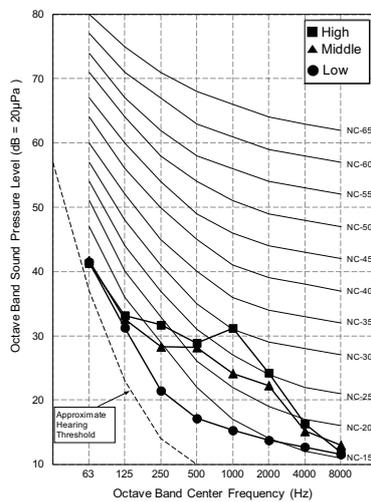
1. Sound measured at some distance away from the center of the unit.
2. Data is valid at free field condition.
3. Reference acoustic pressure 0dB = 20μPa.
4. Data is valid at nominal operation condition.
Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
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.

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

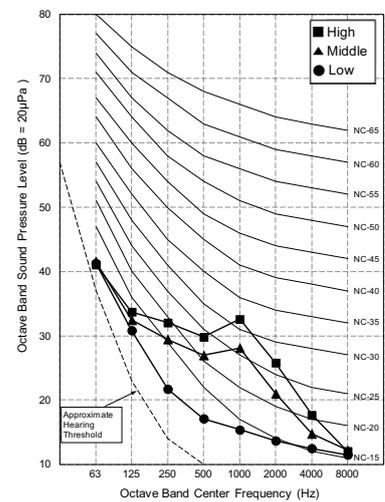
AMNW07GSJR0



AMNW09GSJR0

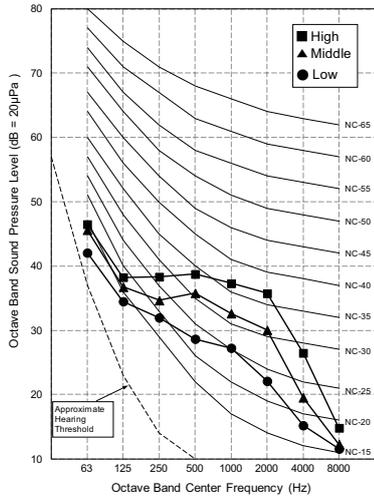


AMNW12GSJR0

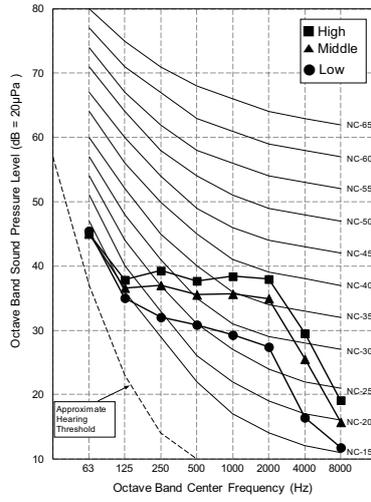


7. Sound levels

AMNW18GSKR0



AMNW24GSKR0



7. Sound levels

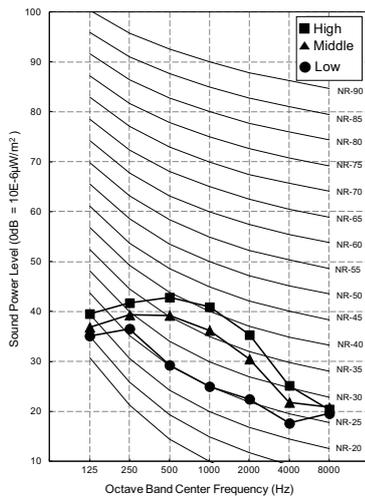
7.2 Sound power level

Note

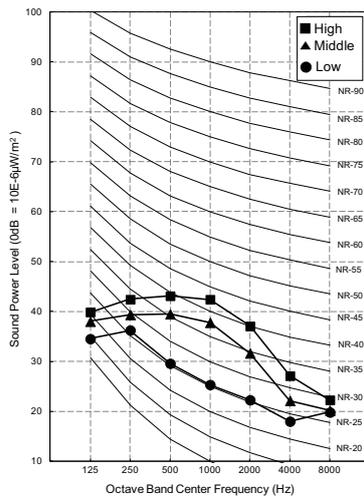
- Data is valid at diffuse field condition
- Data is valid at nominal operating condition
- Sound level can be increased in static pressure mode or used air guide.
- Sound power level is measured on the rated condition in the reverberation rooms.
- Sound level will vary depending on a range of factors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

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

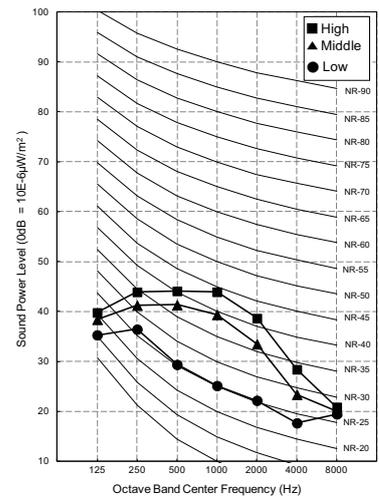
AMNW07GSJR0



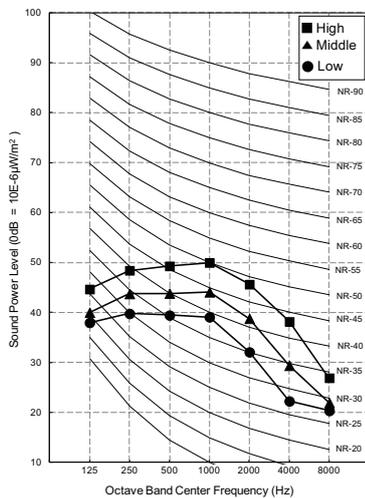
AMNW09GSJR0



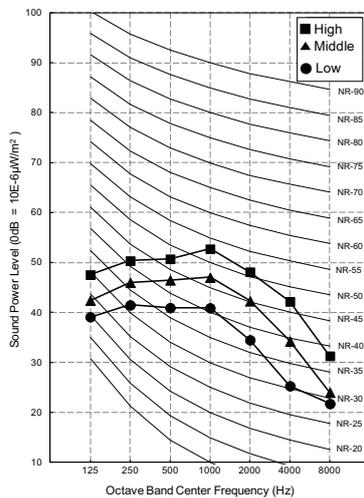
AMNW12GSJR0



AMNW18GSKR0



AMNW24GSKR0

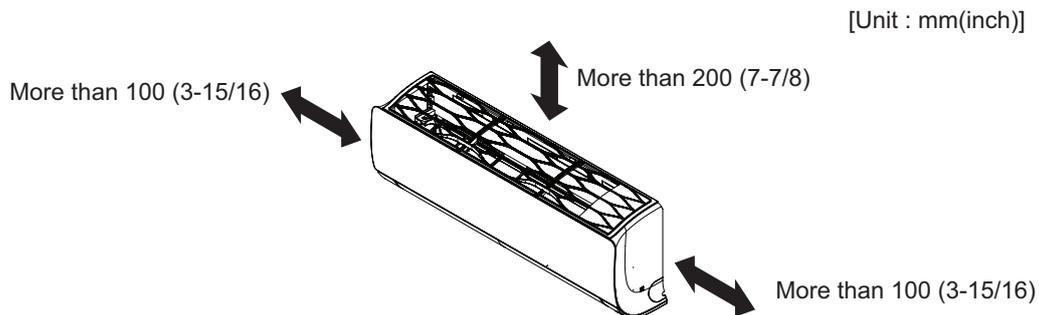


8. Installation

- 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 place where room air circulation is good.
- 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.

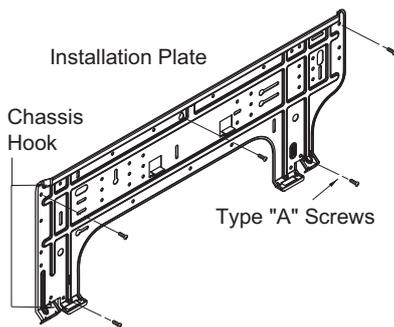


8. Installation

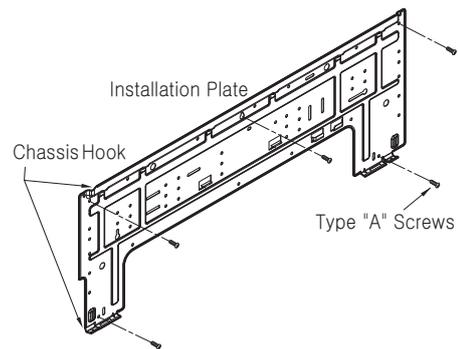
■ Fixing Installation Plate

- 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

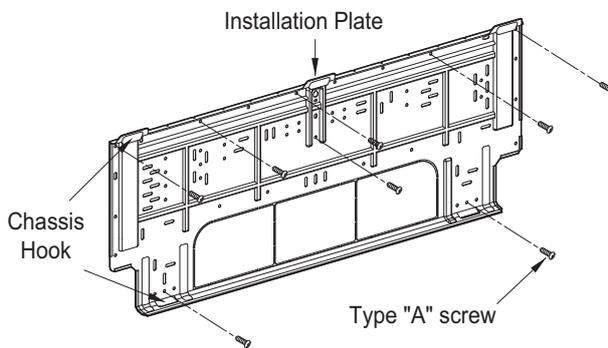


SK Chassis



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

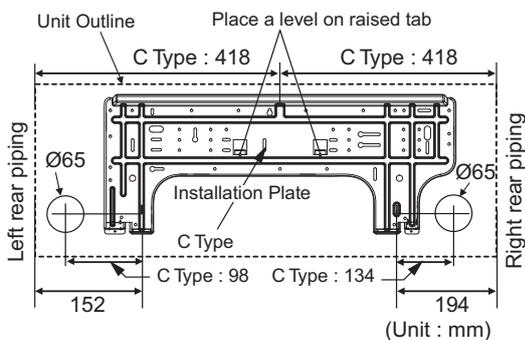
SV Chassis



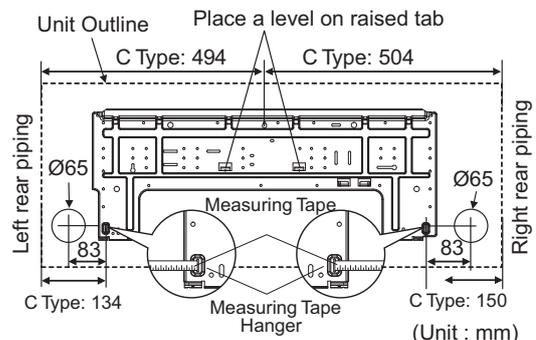
* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

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

SJ chassis



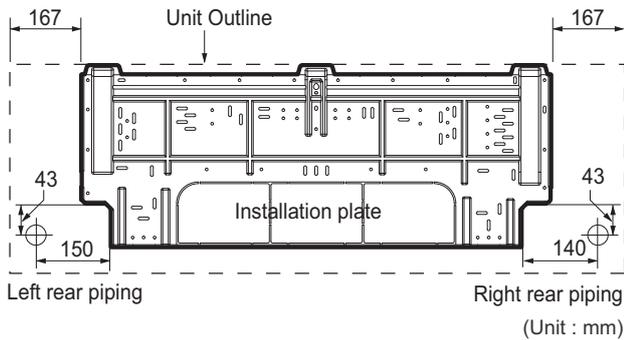
SK chassis



* 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

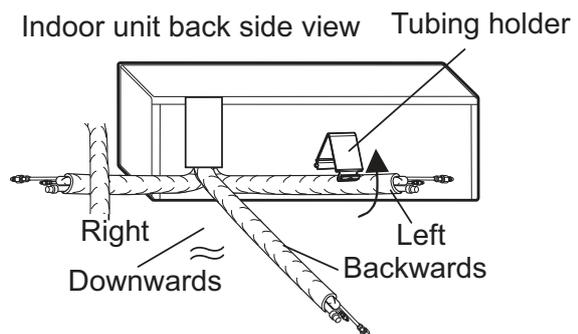
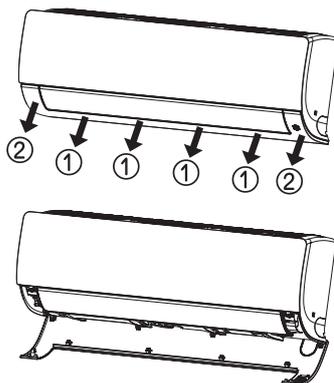
In case that the unit is installed near the sea, the installation parts may be corroded by salt. The installation parts (and the unit) should be taken appropriate anti-corrosion measures.

8.2 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.

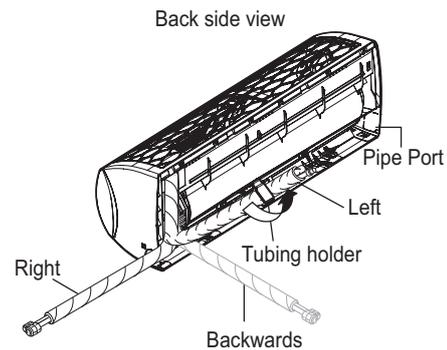
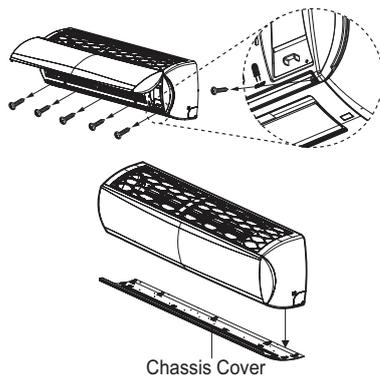
* The feature can be changed according to type of model.

* 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.

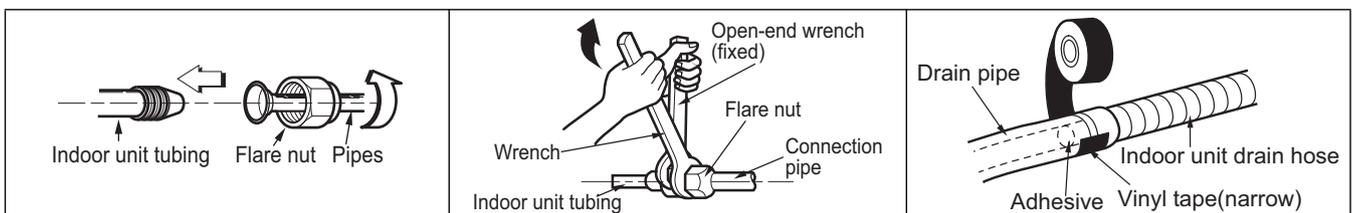
8. Installation



* 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.

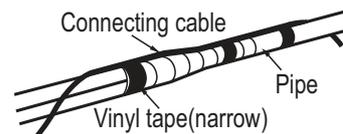
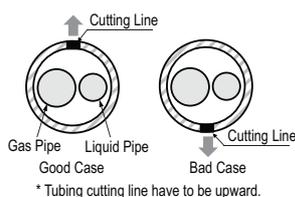
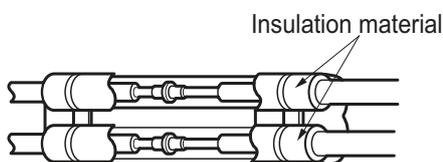
■ Connecting the installation pipe and drain hose



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

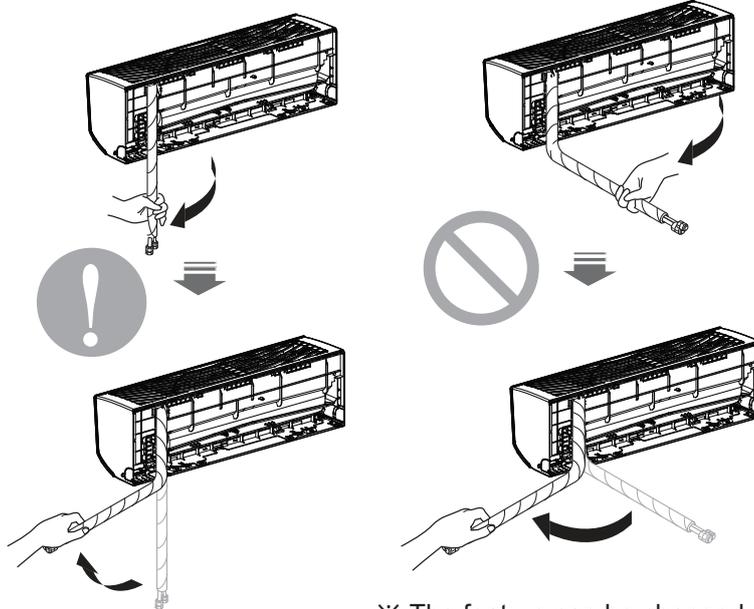
If the drain hose is routed inside the room insulate the hose with an insulation material* so that dripping from sweating condensation) will not damage furniture or floors.

8. Installation

* Foamed polyethylene or equivalent is recommended.

⚠ 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.

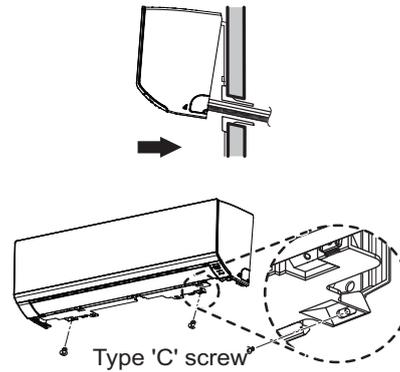


* The feature can be changed according to type of model.

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.

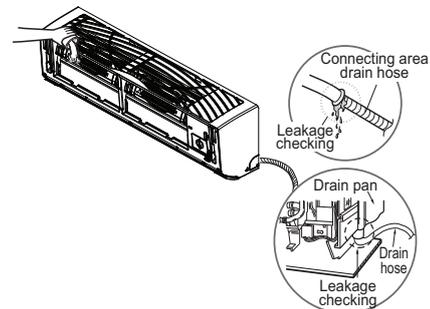
CAUTION

- 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.

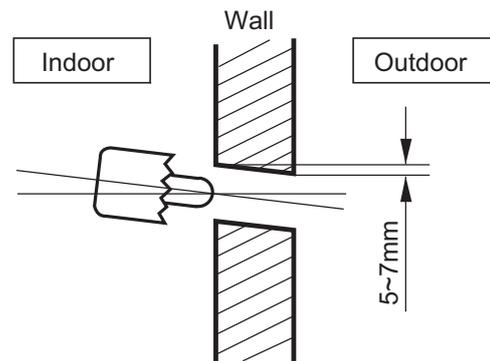


* The feature can be changed according to type of model.

8. Installation

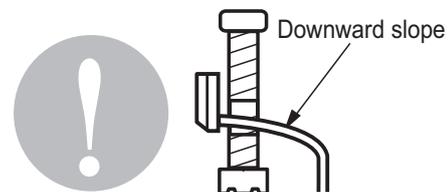
◆ Drill a Hole in the wall

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.

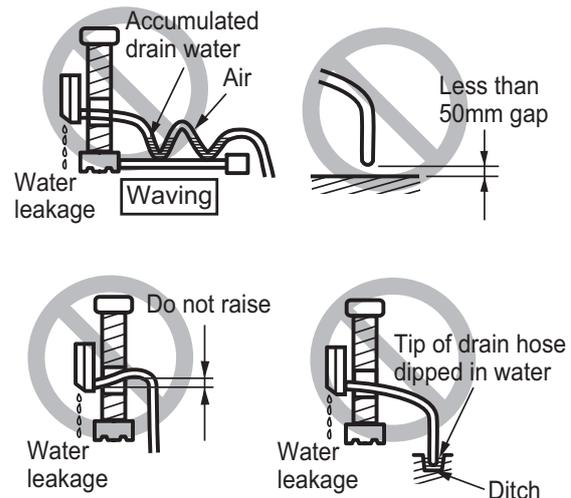


◆ Drain Piping

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.

8.3 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:

8. Installation

- 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 0.75mm² 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.
-

WARNING

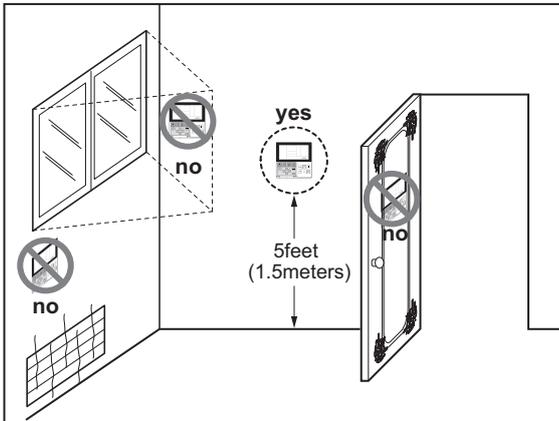
- Make sure that the screws of the terminal are fixed tightly.
 - The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (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.

8. Installation

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.Specifications**
- 3.Dimensions**
- 4.Piping diagrams**
- 5.Wiring diagrams**
- 6.Air flow and temperature distribution**
- 7.Sound levels**
- 8.Installation**

1. List of functions

◆ Basic functions of Indoor Unit

Category	Functions	AMNH09GTUC0 AMNH12GTUC0 AMNW18GTTC0
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)	4 / 5 / 4
	Chaos wind(auto wind)	O
	Jet cool/heat	O / X
	Swirl wind	X
Air purifying	Triple filter (Deodorizing)	X
	Plasma air purifier	O
	Allergy Safe filter	X
	Long-life prefilter (washable / anti-fungus)	O
Installation	Drain pump	O
	E.S.P. control*	X
	Electric heater	X
	High ceiling operation*	O
Reliability	Hot start	O
	Self diagnosis	O
Convenience	Auto changeover	X
	Auto cleaning	X
	Auto operation(artificial intelligence)	O
	Auto Restart	O
	Child lock*	O
	Forced operation	O
	Group control*	X
	Sleep mode	O
	Timer(on/off)	O
	Timer(weekly)*	O
	Two thermistor control*	O
	Auto Elevation Grille	X
Special Functions	Wi-Fi	X
	Humidity Control	X
Comeswith product	Wireless Remote Controller	O**
	Wired Remote Controller	X
Network Solution(LGAP)		O

Note

1. O : Applied, X : Not applied

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

2. Some functions can be limited by remote controller.

3. In case of ducted type indoor units using the wireless remote controller, it needs to connect the wired remote controller for received the signal of that.

4. In case of cassette type indoor units, Plasma kit and Auto Elevation Grille functions are not applicable at the same time.

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

6. ** : It is included by default when the product is manufactured.

1. List of functions

◆ Network solution Accessory List

Category		Product	Remark	AMNH09GTUC0 AMNH12GTUC0 AMNW18GTTC0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
		PREMTB001	Standard (White)	O
	Standard	PREMTBB01	Standard (Black)	O
		PREMTB100**	New Standard (White)	X
Premium	PREMTA000	Premium	O	
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	-	O
		PDRYCB500	Dry Contact For Modbus	X
Gateway	IDU PI485	PHNFP14A0	Connected with the Indoor Units	X
		PSNFP14A0	Connected with the Indoor Units	X
ETC	Remote temperature sensor	PQRSTA0	-	O
	Zone controller	ABZCA	-	X
	Electronic thermostat	AQETC	-	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	-	X

Note

1. O: Possible, X: Impossible, - : Not applicable
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> Download> Manuals)

1. List of functions

◆ Basic functions of Indoor Unit

Category	Functions	AMNW09GTUA0 AMNW12GTUA0 AMNW18GTTA0
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)	4 / 5 / 4
	Chaos wind(auto wind)	O
	Jet cool/heat	O / X
	Swirl wind	X
Air purifying	Triple filter (Deodorizing)	X
	Plasma air purifier	X
	Allergy Safe filter	X
	Long-life prefilter (washable / anti-fungus)	O
Installation	Drain pump	O
	E.S.P. control*	X
	Electric heater	X
	High ceiling operation*	O
Reliability	Hot start	O
	Self diagnosis	O
Convenience	Auto changeover	X
	Auto cleaning	X
	Auto operation(artificial intelligence)	O
	Auto Restart	O
	Child lock*	O
	Forced operation	O
	Group control*	X
	Sleep mode	O
	Timer(on/off)	O
	Timer(weekly)*	O
	Two thermistor control*	O
	Auto Elevation Grille	X
Special Functions	Wi-Fi	X
	Humidity Control	X
Comeswith product	Wireless Remote Controller	O**
	Wired Remote Controller	X
Network Solution(LGAP)		O

Note

1. O : Applied, X : Not applied

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

2. Some functions can be limited by remote controller.

3. In case of ducted type indoor units using the wireless remote controller, it needs to connect the wired remote controller for received the signal of that.

4. In case of cassette type indoor units, Plasma kit and Auto Elevation Grille functions are not applicable at the same time.

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

6. ** : It is included by default when the product is manufactured.

1. List of functions

◆ Network solution Accessory List

Category		Product	Remark	AMNW09GTUA0 AMNW12GTUA0 AMNW18GTUA0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
		PREMTB001	Standard (White)	O
	Standard	PREMTBB01	Standard (Black)	O
		PREMTB100**	New Standard (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	-	O
		PDRYCB500	Dry Contact For Modbus	X
Gateway	IDU PI485	PHNFP14A0	Connected with the Indoor Units	X
		PSNFP14A0	Connected with the Indoor Units	X
ETC	Remote temperature sensor	PQRSTA0	-	O
	Zone controller	ABZCA	-	X
	Electronic thermostat	AQETC	-	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	-	X

Note

1. O: Possible, X: Impossible, - : Not applicable
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> Download> Manuals)

2. Specifications

Model Name				AMNH09GTUC0 AMNW09GTUA0	AMNH12GTUC0 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)		14.8 (32.6)	14.8 (32.6)
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)	0.18 (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 x No.		30 × 1	30 × 1
Sound Pressure Level	H / M / L		dB(A)	36 / 34 / 32	37 / 36 / 33
Sound Power Level	Max.		dB(A)	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	Model Name		-	PT-UUC1	PT-UUC1
	Casing Color		-	Morning Fog	Morning Fog
	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)

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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
- 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 Zero.

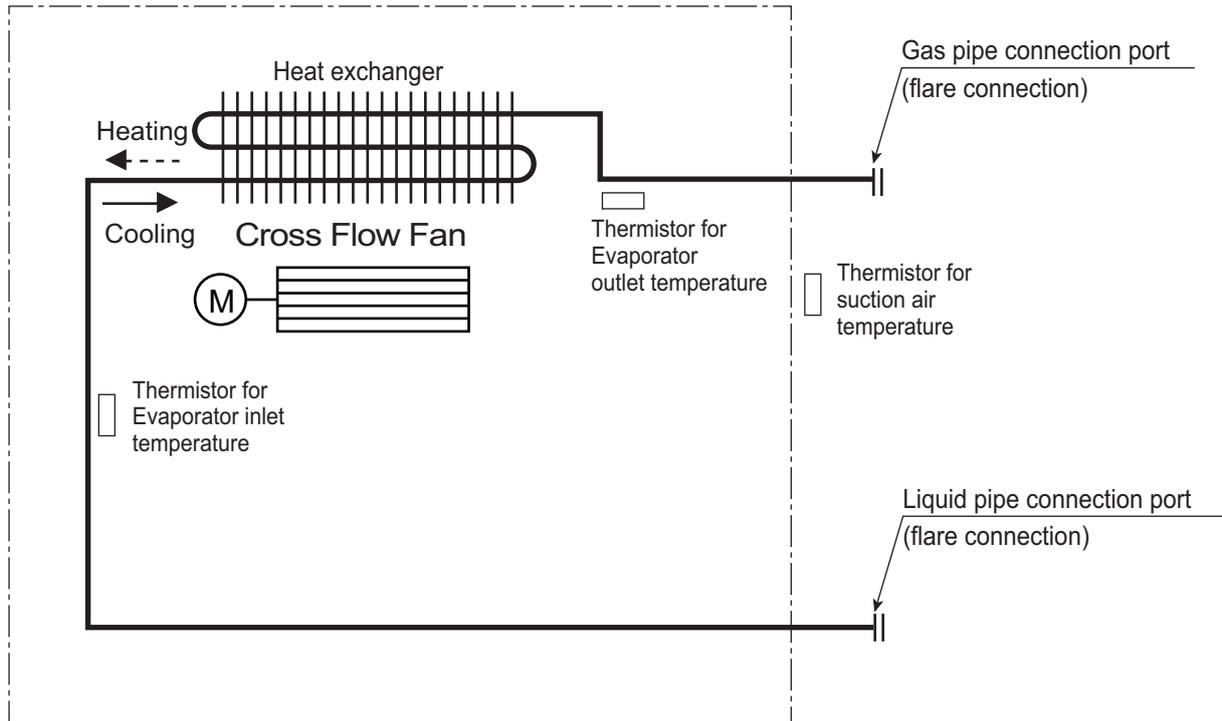
2. Specifications

Model Name				AMNW18GTTC0 AMNW18GTTA0
Power Supply			V, Ø, Hz	220-240, 1, 50 220, 1, 60
Power Input			W	-
Running Current			A	0.31
Casing Color			-	-
Dimensions	Body	W x H x D	mm	1,180 × 132 × 450
		W x H x D	inch	46-15/32 × 5-3/16 × 17-23/32
Net Weight		Body	kg (lbs)	18.1 (39.9)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 × 12 × 18) × 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	13.3 / 11.8 / 10.8
		H / M / L	ft ³ /min	470 / 417 / 381
Fan Motor	Type		-	BLDC
	Output		W × No.	30 × 1
Sound Pressure Level		H / M / L	dB(A)	45 / 42 / 39
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 32.0 / 25.0
Safety Devices			-	Fuse
			-	Thermal Protector for Fan Motor
Power and Communication Cable (included Earth)			No. × mm ²	4C × 0.75
Decoration Panel	Model Name		-	PT-UTC
	Casing Color		-	Morning Fog
	Dimensions	W x H x D	mm	1,420 × 34 × 500
		W x H x D	inch	55-29/32 × 1-11/32 × 19-11/16
Net weight		kg (lbs)	5.0 (11.0)	

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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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 Zero.

4. Piping diagrams



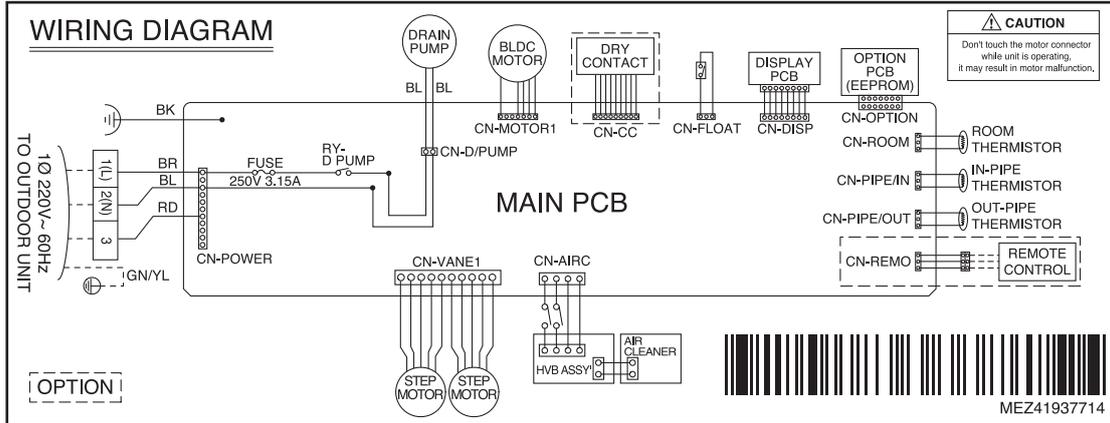
Description	PCB Connector
Thermistor for suction air temperature	CN-ROOM
Thermistor for evaporator inlet temperature	CN-PIPE1
Thermistor for evaporator outlet temperature	CN-PIPE2

◆ Refrigerant pipe connection port diameters

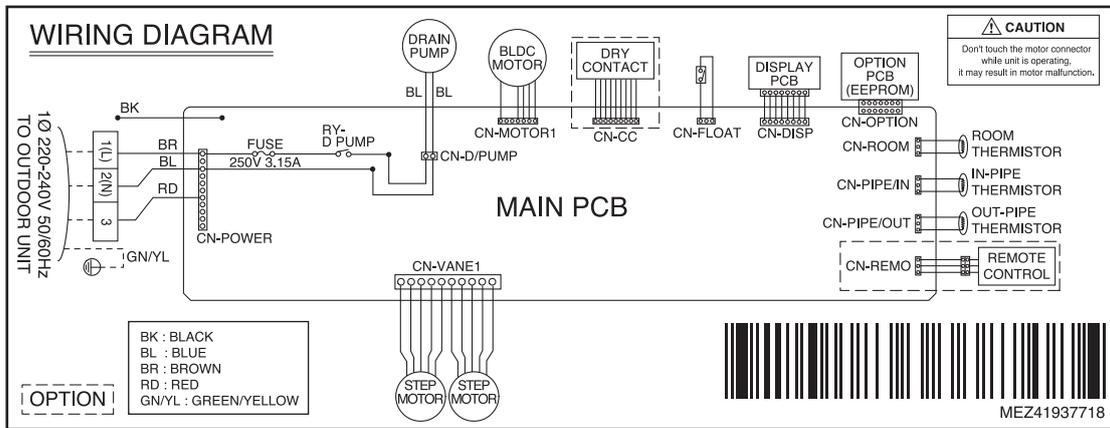
Model	Gas [mm(inch)]	Liquid [mm(inch)]
AMNH09GTUC0 AMNH12GTUC0 AMNW09GTUA0 AMNW12GTUA0	Ø9.52(3/8)	Ø6.35(1/4)
AMNW18GTTC0 AMNW18GTTA0	Ø12.7(1/2)	Ø6.35(1/4)

5. Wiring Diagrams

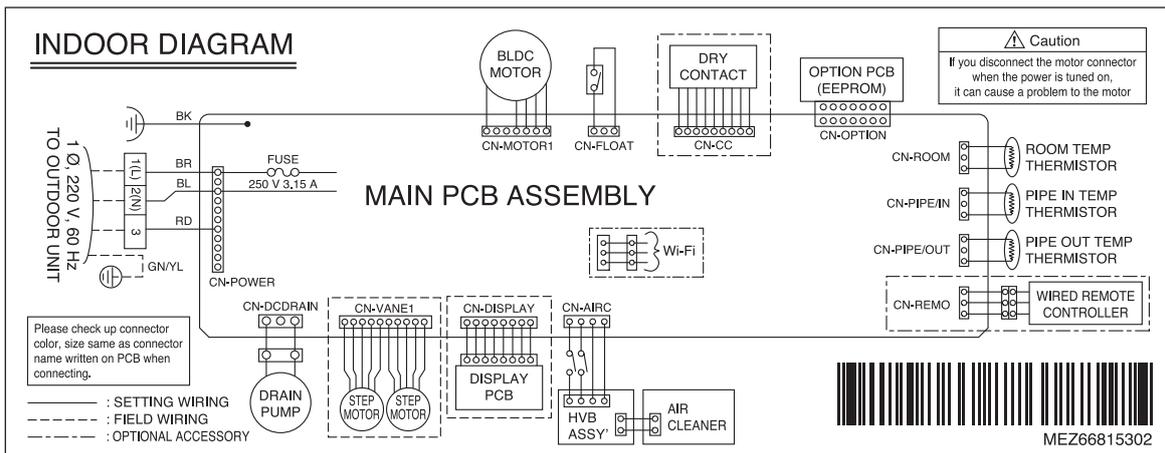
AMNH09/12GTUC0



AMNW09/12GTUA0

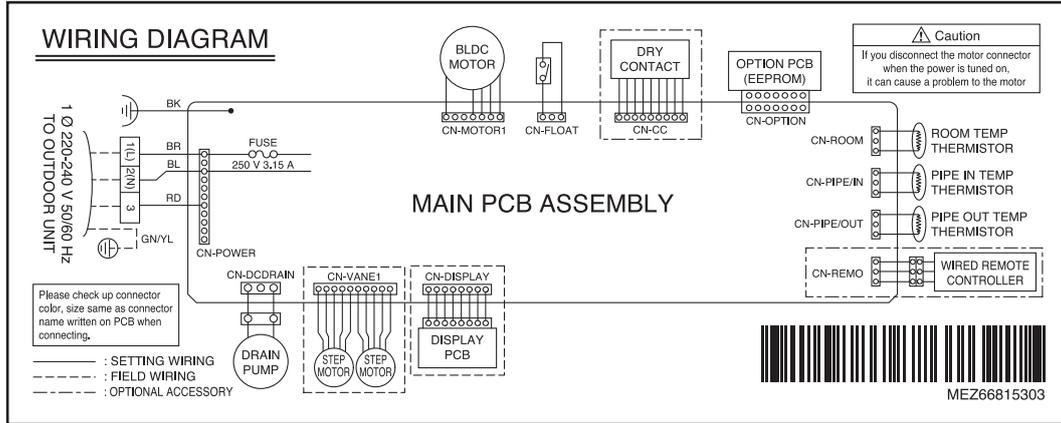


AMNW18GTTC0



5. Wiring Diagrams

AMNW018GTTA0

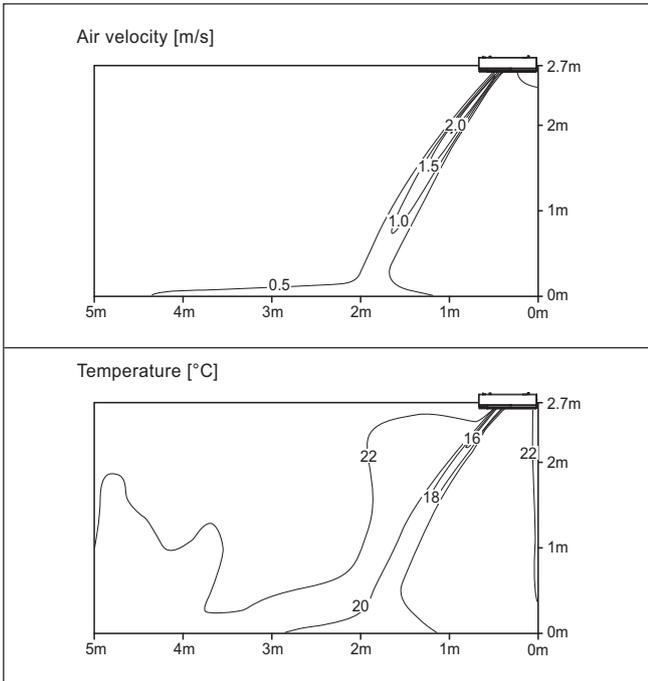


6. Air flow and temperature distributions (reference data)

■ Model : AMNH09GTUC0 / AMNW09GTUA0

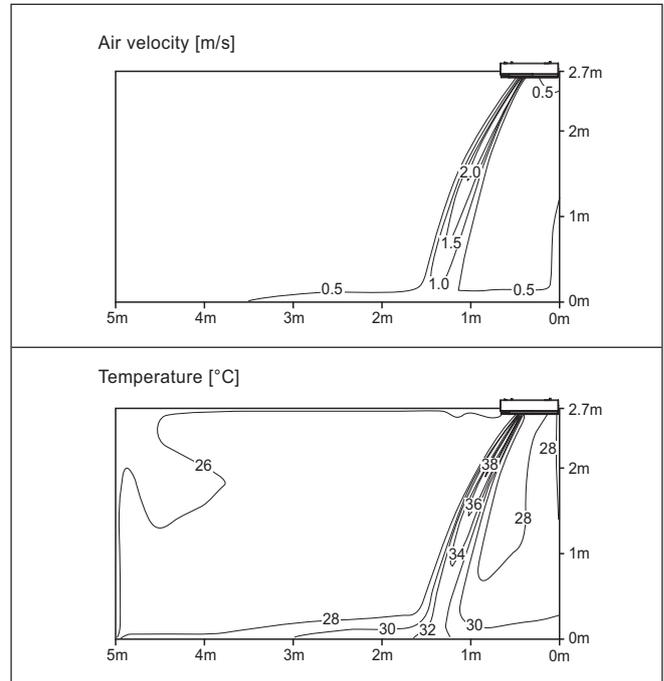
Cooling

Discharge angle: 50°



Heating

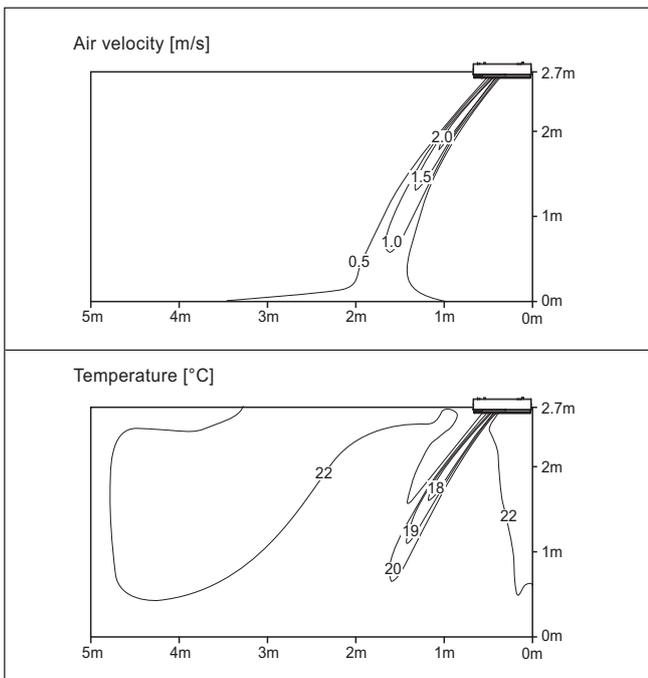
Discharge angle: 60°



■ Model : AMNH12GTUC0 / AMNW12GTUA0

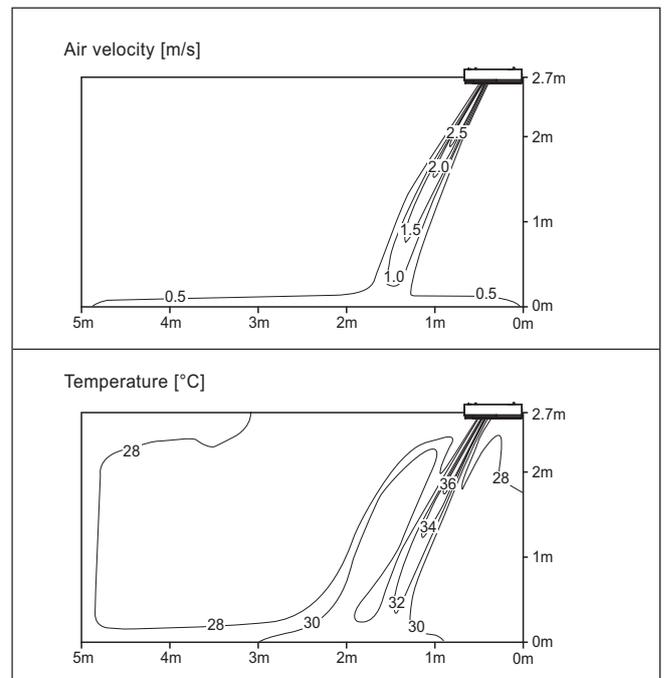
Cooling

Discharge angle: 50°



Heating

Discharge angle: 60°

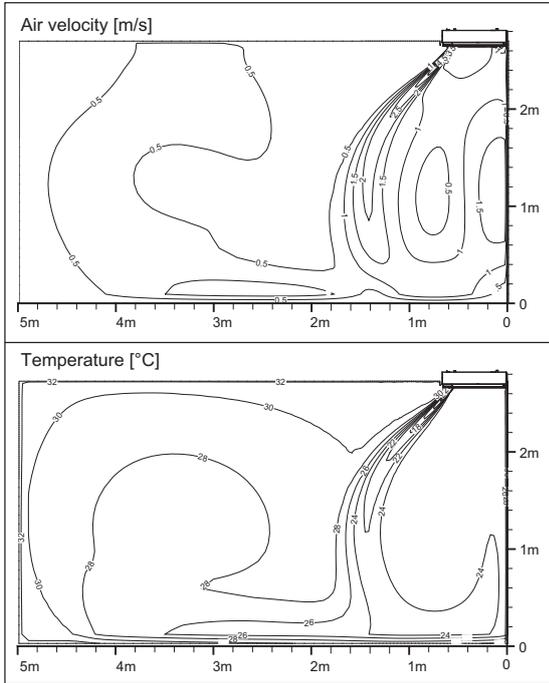


6. Air flow and temperature distributions (reference data)

■ Model : AMNW18GTTC0 / AMNW18GTTA0

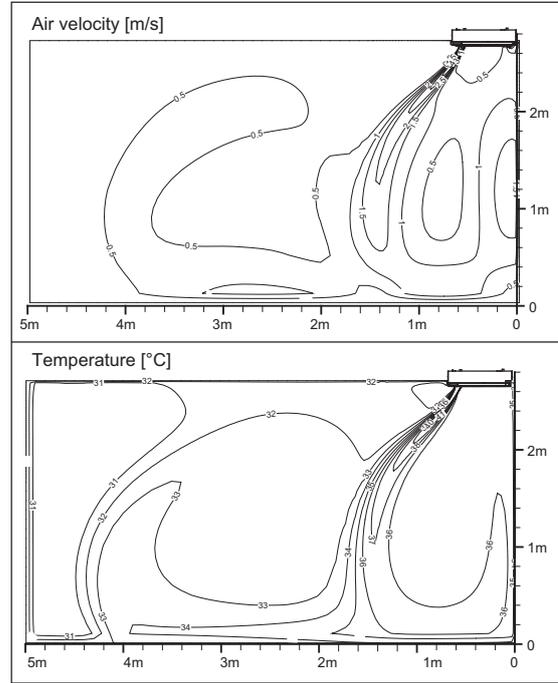
Cooling

Discharge angle: 50°



Heating

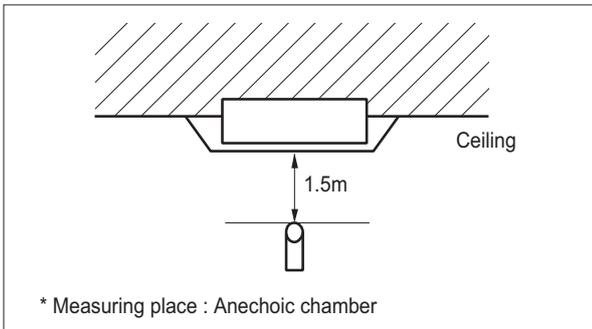
Discharge angle: 60°



7. Sound levels

7.1 Sound pressure level

Overall

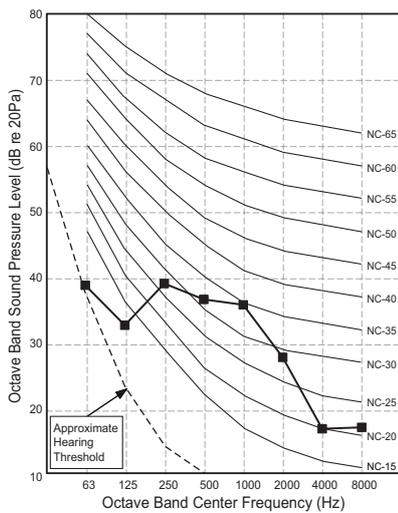


Note

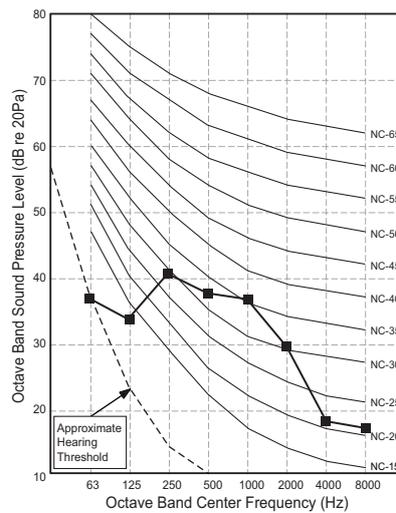
- Sound measured at 1m away from the center of the unit.
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Reference acoustic pressure 0dB=20μPa.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) 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
AMNH09GTUC0 / AMNW09GTUA0	36	34	32
AMNH12GTUC0 / AMNW12GTUA0	37	36	33
AMNW18GTTC0 / AMNW18GTTA0	45	42	39

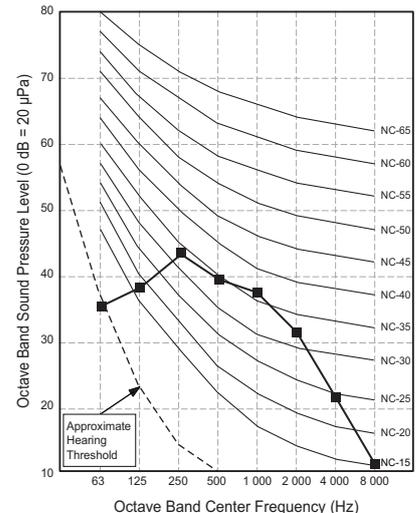
AMNH09GTUC0/AMNW09GTUA0



AMNH12GTUC0/AMNW12GTUA0



AMNW18GTTC0/AMNW18GTTA0



7. Sound levels

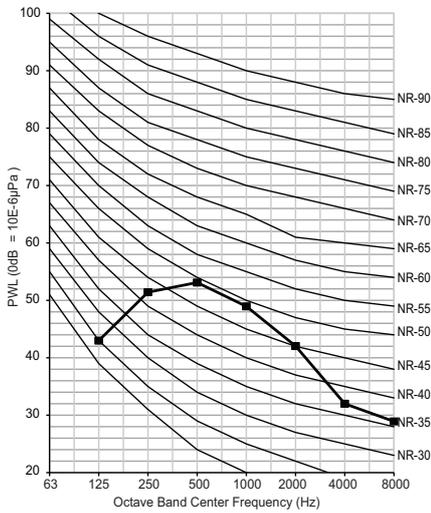
7.2 Sound power level

Note

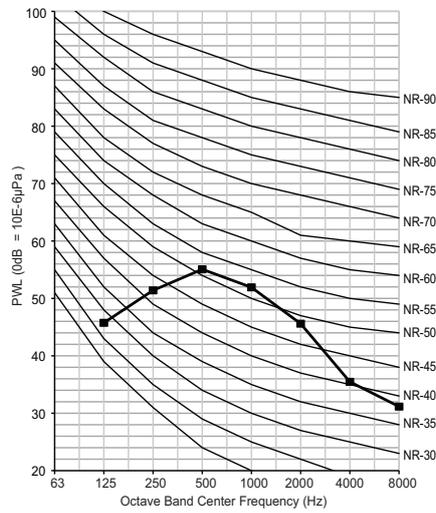
1. Reference acoustic intensity 0dB = $10E-6\mu W/m^2$
2. Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.

Model	Sound power level [dB(A)]
	H
AMNH09GTUC0 / AMNW09GTUA0	54
AMNH12GTUC0 / AMNW12GTUA0	57
AMNW18GTTC0 / AMNW18GTTA0	59

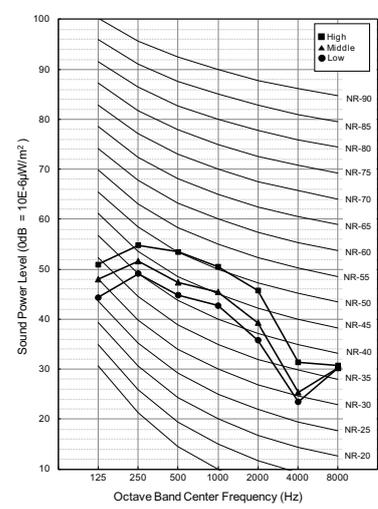
AMNH09GTUC0/AMNW09GTUA0



AMNH12GTUC0/AMNW12GTUA0

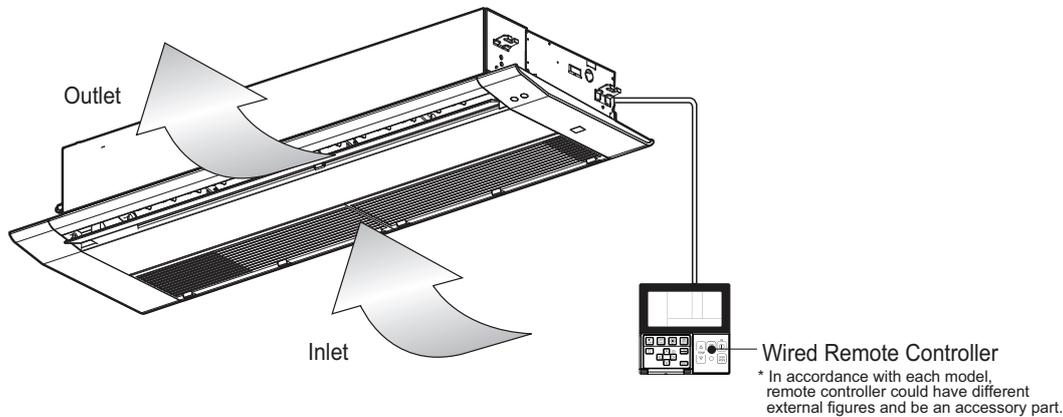


AMNW18GTTC0/AMNW18GTTA0



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.)

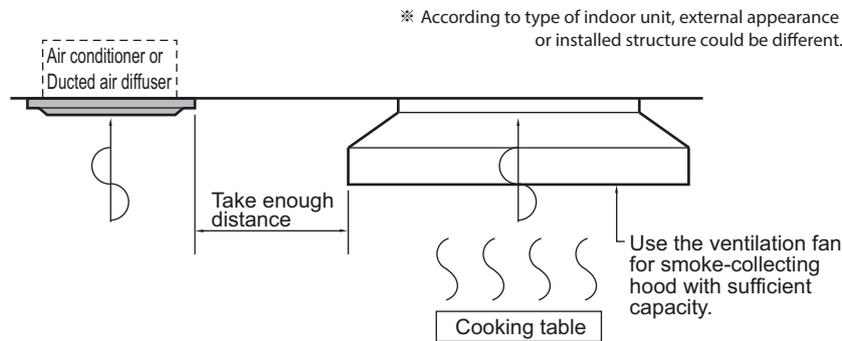


8.1 Selection of the best location

- The place where room air circulation is good.
- 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;

8. Installation

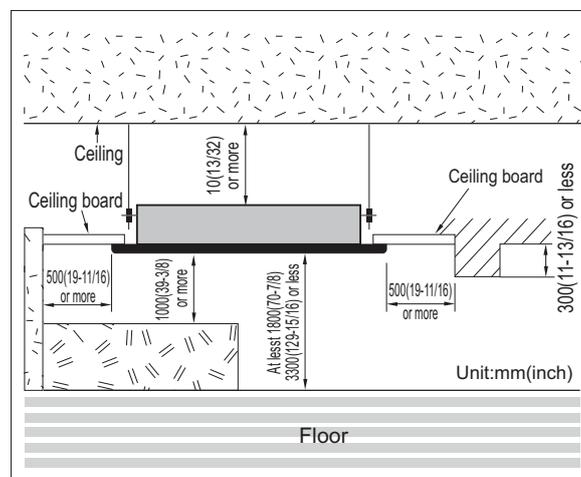
- Make sure that ventilation fan is enough to cover all noxious gases from this place.
- Ensure enough distance from the cooking room to install the air conditioner in such a place where it may not suck oily steam.



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.

⚠ 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.

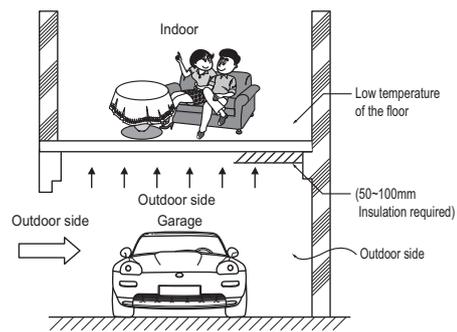
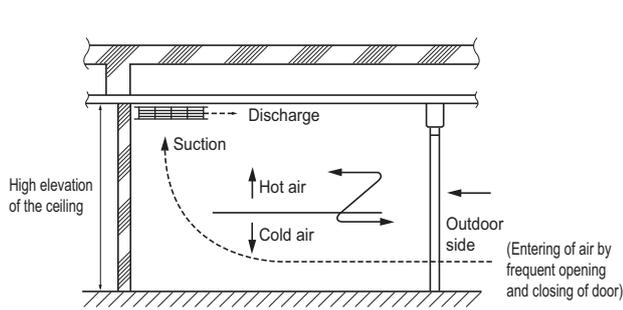


8.2 Precautions regarding cassette indoor unit installation

◆ 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.

8. Installation



◆ 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

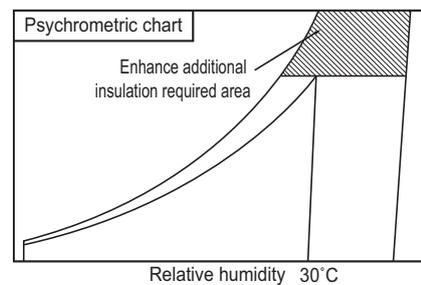
- In case there is a cold air intake,
 - » The duct surface may have some dew drops. So a insulation on the duct is a must.(Insulation material: a glass wool of thickness 25 mm will be appropriate.)

• 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.

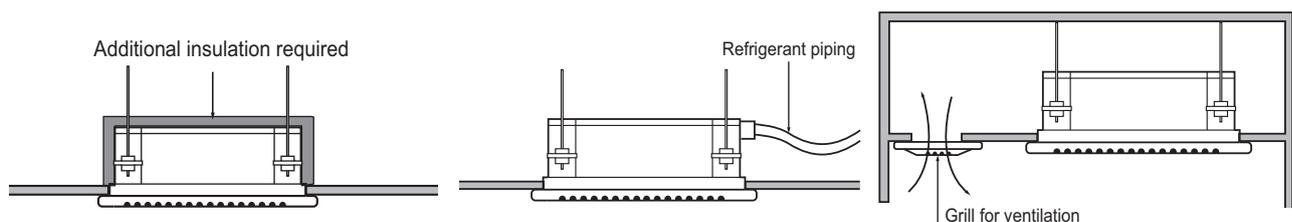
◆ In case of high temperature or humidity between the false ceiling and ceiling slab

- 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.



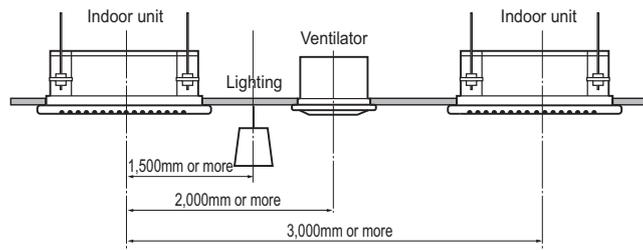
• Countermeasure method

- 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 th air tight seal places. (To escape of the humidity inside false ceiling)



8. Installation

◆ In case of multiple indoor cassette units (recommended)

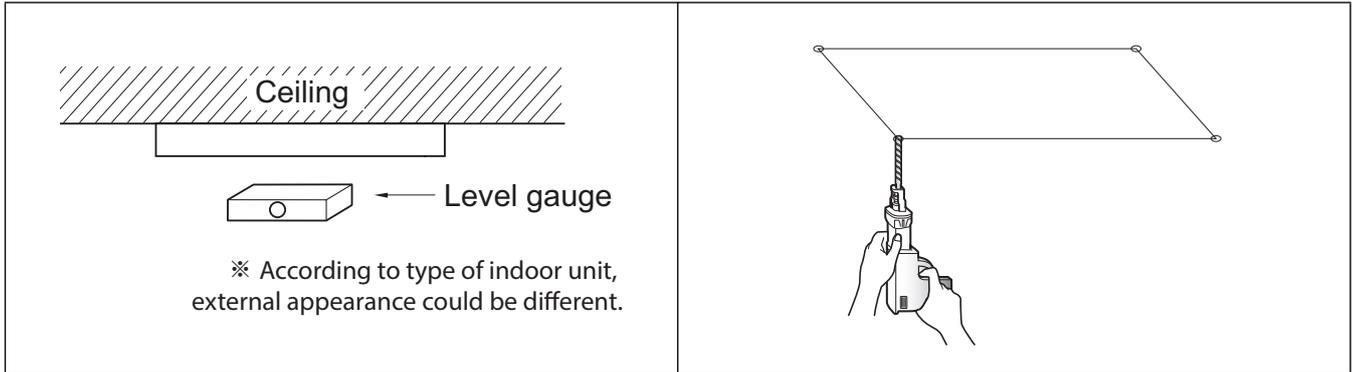


8. Installation

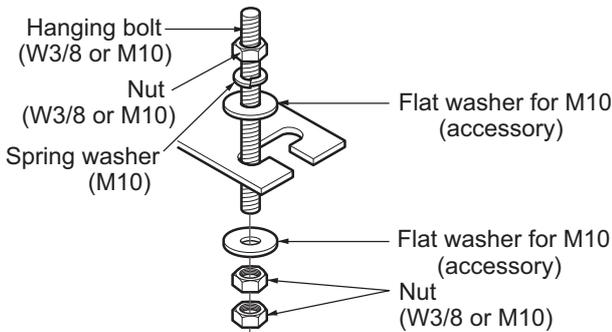
8.3 Ceiling opening dimensions and hanging bolt location

⚠ 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.



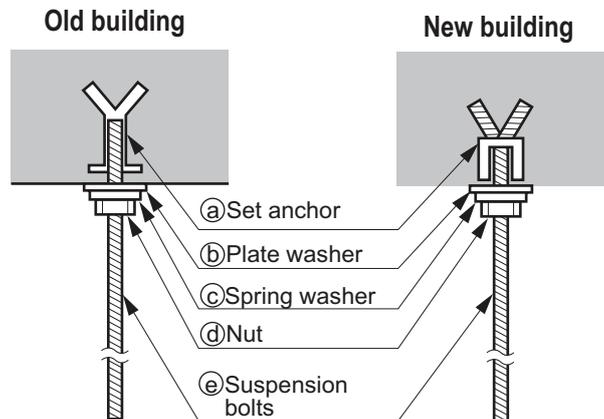
1. The dimensions of the paper model for installation are the same as those of the ceiling opening dimensions.
2. Select and mark the position for fixing bolts and piping hole.
3. Decide the position for fixing bolts slightly tilted to the drain direction after considering the direction of drain hose.
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.



- 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

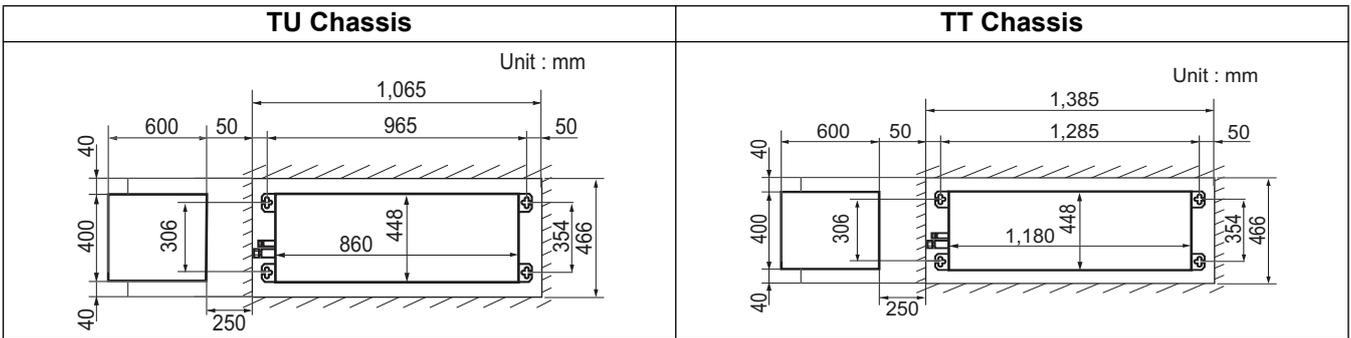
⚠ CAUTION

- Tighten the nut and bolt to prevent the unit from falling.

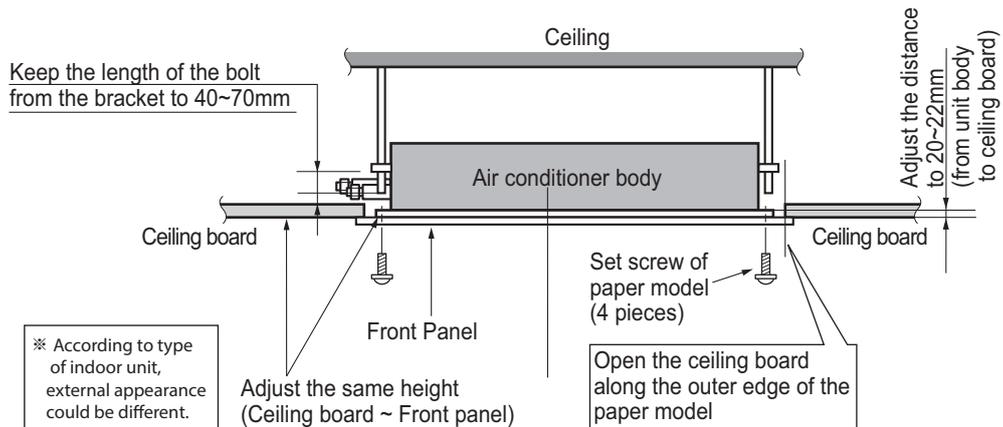


8. Installation

◆ Ceiling opening and Hanging Bolt dimension



◆ Installation Structure guide



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 and visually 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 0.75mm² 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

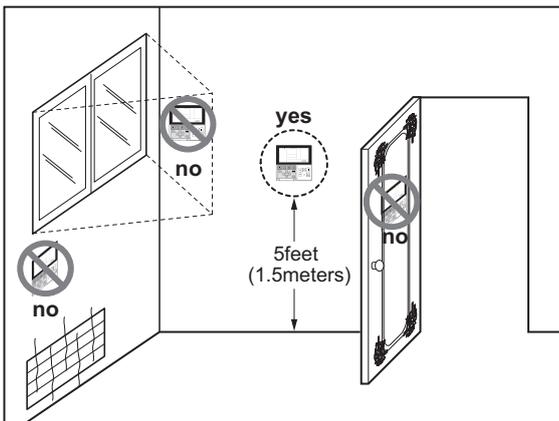
⚠ WARNING

- 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.)

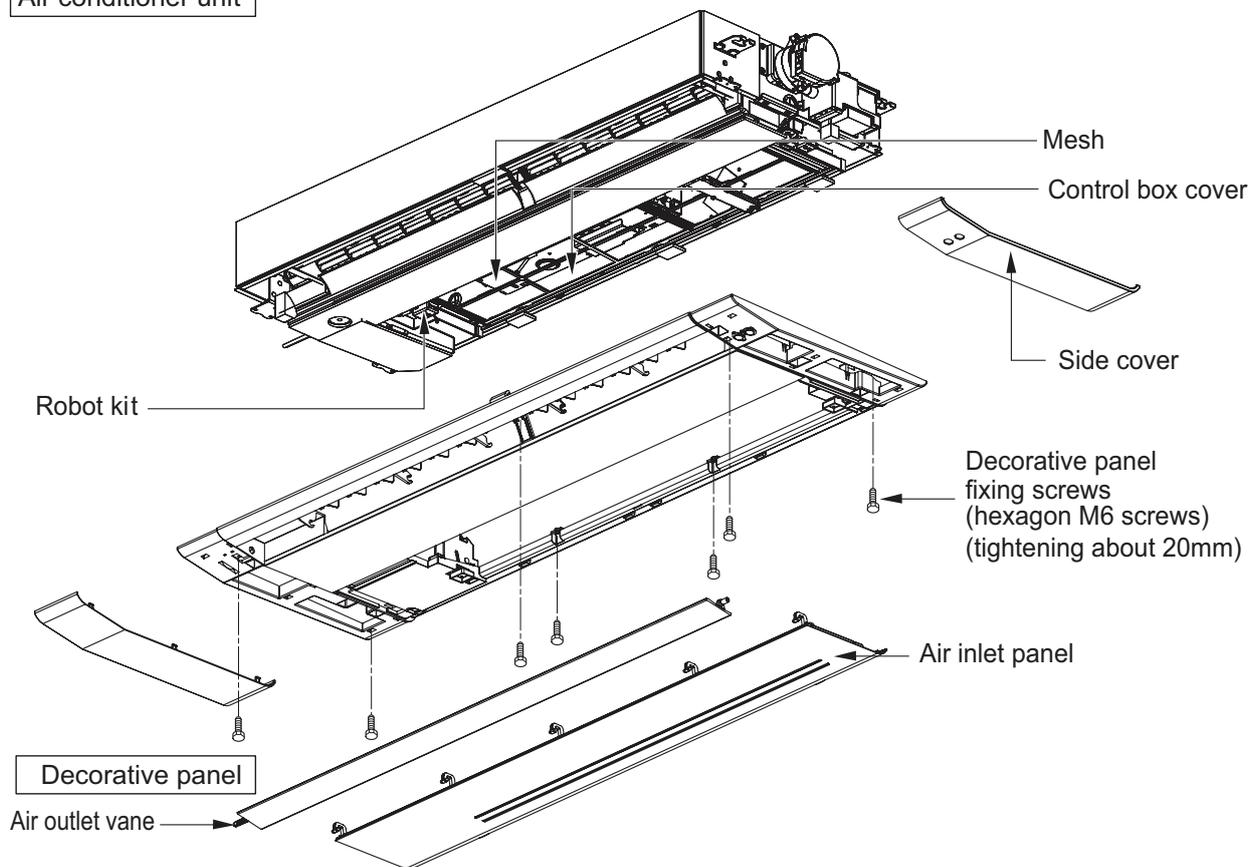
8. Installation

8.5 Installation of Decoration Panel (Panel Type)

- 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 and air inlet panel connector.
7. Install the air inlet panel (including the air filter) and side covers.

Air conditioner unit



⚠ CAUTION

- Install certainly the decoration panel. Cool air leakage causes sweating or falling of water-drops.

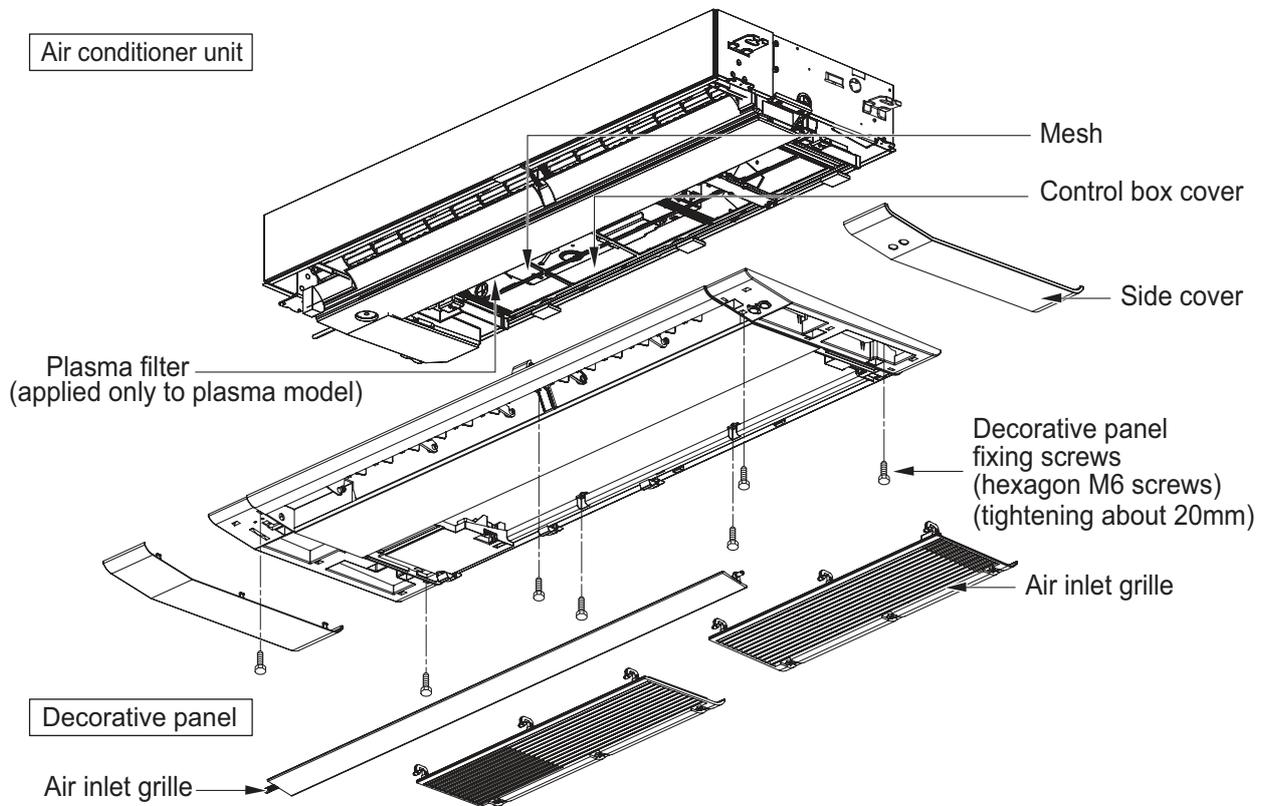


8. Installation

8.6 Installation of Decoration Panel(Grille Type)

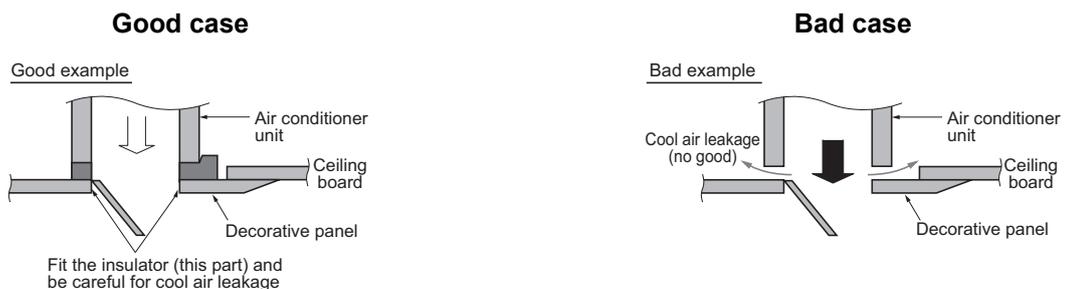
- The decoration panel has its installation direction.
- Before installing the decoration panel, always remove the paper template.

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 and display connector. (Plasma connector for plasma model)
7. Install the air inlet panel (including the air filter) and side covers.



⚠ CAUTION

- Install certainly the decoration panel. Cool air leakage causes sweating or falling of water-drops.

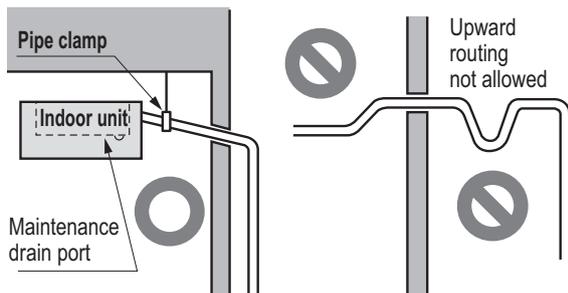


8. Installation

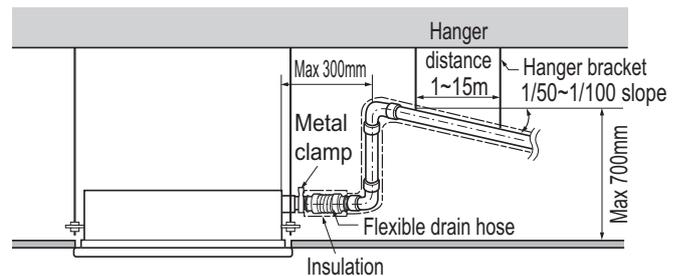
8.7 Indoor Unit Drain Piping

8.7.1 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.

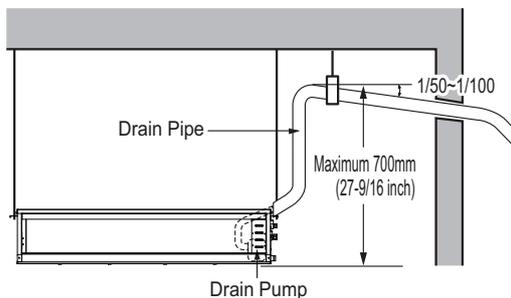


※ According to type of indoor unit, external appearance could be different.

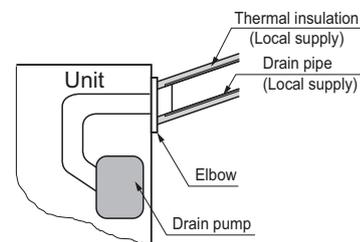


※ According to type of indoor unit, external appearance could be different.

- 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.

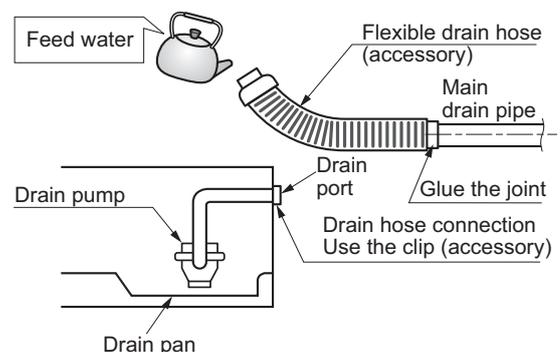


8.7.2 Method of Drainage test

◆ 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.

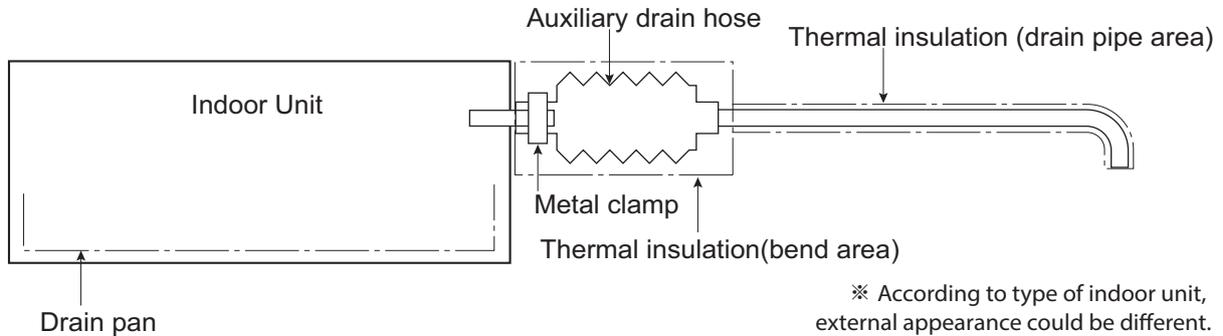


※ According to type of indoor unit, external appearance could be different.

8. Installation

8.7.3 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.

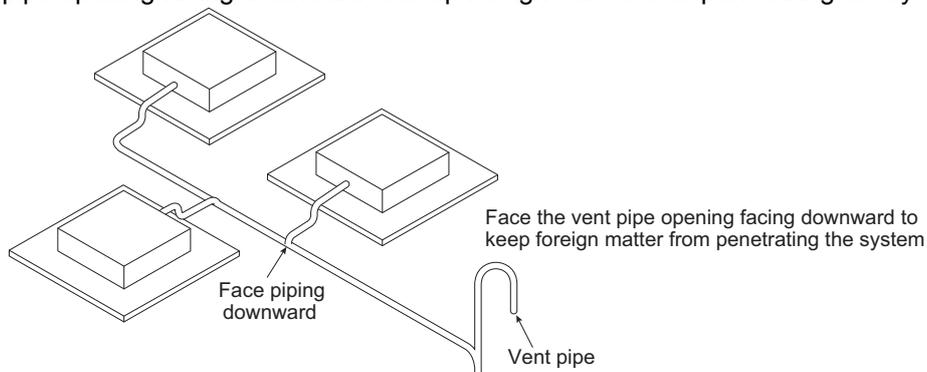


⚠ CAUTION

- 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.

8.7.4 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. Specifications**
- 3. Dimensions**
- 4. Piping diagrams**
- 5. Wiring diagrams**
- 6. Air flow and temperature distribution**
- 7. Sound levels**
- 8. Installation**

1. List of functions

◆ Basic functions of Indoor Unit

Category	Functions	AMNH07GTRA0 AMNW09GTRA0 AMNW12GTRA0	AMNW18GTQA0
Air flow	Air supply outlet	4	4
	Airflow direction control (left & right)	X	X
	Airflow direction control (up & down)	Auto	Auto
	Auto swing (left & right)	X	X
	Auto swing (up & down)	O	O
	Airflow steps (fan/cool/heat)	4 / 5 / 4	4 / 5 / 4
	Chaos wind(auto wind)	X	X
	Jet cool/heat	O / X	O / X
	Swirl wind	O	O
Air purifying	Triple filter (Deodorizing)	X	X
	Plasma air purifier	PTPKQ0	PTPKQ0
	Allergy Safe filter	X	X
	Long-life prefilter (washable / anti-fungus)	O	O
Installation	Drain pump	O	O
	E.S.P. control*	X	X
	Electric heater	X	X
	High ceiling operation*	O	O
	Auto Elevation Grille	X	X
Reliability	Hot start	O	O
	Self diagnosis	O	O
Convenience	Auto changeover	X	X
	Auto cleaning	X	X
	Auto operation(artificial intelligence)	O	O
	Auto Restart	O	O
	Child lock*	O	O
	Forced operation	O	O
	Group control*	O	O
	Sleep mode	O	O
	Timer(on/off)	O	O
	Timer(weekly)*	O	O
Two thermistor control*	O	O	
Special Functions	Wi-Fi	X	X
	Humidity Control	X	X
Comeswith product	Wireless Remote Controller	X	X
	Wired Remote Controller	O**	O**
Network Solution(LGAP)		O	O

Note

1. O : Applied, X : Not applied

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

2. Some functions can be limited by remote controller.

3. In case of ducted type indoor units using the wireless remote controller, it needs to connect the wired remote controller for received the signal of that.

4. In case of cassette type indoor units, Plasma kit and Auto Elevation Grille functions are not applicable at the same time.

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

6. ** : It is included by default when the product is manufactured.

1. List of functions

◆ Network solution Accessory List

Category		Product	Remark	AMNH07GTRA0 AMNW09GTRA0 AMNW12GTRA0 AMNW18GTQA0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	Standard	PREMTB001	Standard (White)	O
		PREMTBB01	Standard (Black)	O
		PREMTB100**	New Standard (White)	X
Premium	PREMTA000	Premium	O	
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	-	O
		PDRYCB500	Dry Contact For Modbus	X
Gateway	IDU PI485	PHNFP14A0	Connected with the Indoor Units	X
		PSNFP14A0	Connected with the Indoor Units	X
ETC	Remote temperature sensor	PQRSTA0	-	O
	Zone controller	ABZCA	-	X
	Electronic thermostat	AQETC	-	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	-	X	

Note

1. O: Possible, X: Impossible, - : Not applicable
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> Download> Manuals)

1. List of functions

◆ Basic functions of Indoor Unit

Category	Functions	AMNW24GTPA0
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
	Chaos wind(auto wind)	X
	Jet cool/heat	O / X
	Swirl wind	O
Air purifying	Triple filter (Deodorizing)	X
	Plasma air purifier	PTPKM0
	Allergy Safe filter	X
	Long-life prefilter (washable / anti-fungus)	O
Installation	Drain pump	O
	E.S.P. control*	X
	Electric heater	X
	High ceiling operation*	O
	Auto Elevation Grille	PTEGM0
Reliability	Hot start	O
	Self diagnosis	O
Convenience	Auto changeover	X
	Auto cleaning	X
	Auto operation(artificial intelligence)	O
	Auto Restart	O
	Child lock*	O
	Forced operation	O
	Group control*	O
	Sleep mode	O
	Timer(on/off)	O
	Timer(weekly)*	O
Two thermistor control*	O	
Special Functions	Wi-Fi	X
	Humidity Control	X
Comeswith product	Wireless Remote Controller	X
	Wired Remote Controller	O**
Network Solution(LGAP)		O

Note

1. O : Applied, X : Not applied

Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

2. Some functions can be limited by remote controller.

3. In case of ducted type indoor units using the wireless remote controller, it needs to connect the wired remote controller for received the signal of that.

4. In case of cassette type indoor units, Plasma kit and Auto Elevation Grille functions are not applicable at the same time.

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

6. ** : It is included by default when the product is manufactured.

1. List of functions

◆ Network solution Accessory List

Category		Product	Remark	AMNW24GTPA0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	Standard	PREMTB001	Standard (White)	O
		PREMTBB01	Standard (Black)	O
		PREMTB100**	New Standard (White)	X
Premium	PREMTA000	Premium	O	
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	-	O
		PDRYCB500	Dry Contact For Modbus	X
Gateway	IDU PI485	PHNFP14A0	Connected with the Indoor Units	X
		PSNFP14A0	Connected with the Indoor Units	X
ETC	Remote temperature sensor	PQRSTA0	-	O
	Zone controller	ABZCA	-	X
	Electronic thermostat	AQETC	-	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	-	X

Note

1. O: Possible, X: Impossible, - : Not applicable
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> Download> Manuals)

2. Specifications

Model Name				AMNH07GTRA0
Power Supply		V, Ø, Hz		220-240, 1, 50
Power Input		Min / Nom / Max		220, 1, 60
Running Current		W		10 / 20 / 20
Casing Color		A		0.4
Casing Color		-		-
Dimensions	Body	W x H x D	mm	570 × 214 × 570
		W x H x D	inch	22-7/16 x 8-7/16 x 22-7/16
Net Weight	Body	kg (lbs)		14.0 (30.9)
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	7.5 / 6.0 / 5.0
		H / M / L	ft ³ /min	265 / 212 / 177
Fan Motor	Type	-		BLDC
	Output	W x No.		43 x 1
Sound Pressure Level	H / M / L		dB(A)	31 / 27 / 24
Sound Power Level	Max.		dB(A)	48
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		-		-
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

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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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 Zero.

2. Specifications

Model Name				AMNW09GTRA0	AMNW12GTRA0
Power Supply		V, Ø, Hz		220-240, 1, 50	220-240, 1, 50
Power Input		Min / Nom / Max	W	10 / 20 / 20	10 / 20 / 20
Running Current		A		0.4	0.4
Casing Color		-		-	-
Dimensions	Body	W x H x D	mm	570 x 214 x 570	570 x 214 x 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)		14.0 (30.9)	14.0 (30.9)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 8 x 18) x 1	(2 x 8 x 18) x 1
	Face Area		m ² (ft ²)	0.22 (2.40)	0.22 (2.40)
Fan	Type	-		Turbo Fan	Turbo Fan
	Air Flow Rate	H / M / L	m ³ /min	8.5 / 7.0 / 6.0	9.5 / 8.0 / 7.0
		H / M / L	ft ³ /min	300 / 265 / 230	336 / 283 / 230
Fan Motor	Type	-		BLDC	BLDC
	Output	W x No.		43 x 1	43 x 1
Sound Pressure Level	H / M / L		dB(A)	36 / 33 / 30	38 / 35 / 32
Sound Power Level	Max.		dB(A)	48	51
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. x mm ² (AWG)	4C x 0.75 (18)	4C x 0.75 (18)
Decoration Panel	Model Name		-	PT-UQC	PT-UQC
	Casing Color		-	Morning Fog	Morning Fog
	Dimensions	W x H x D	mm	700 x 22 x 700	700 x 22 x 700
		W x H x D	inch	27-9/16 x 7/8 x 27-9/16	27-9/16 x 7/8 x 27-9/16
Net weight		kg (lbs)		3.0 (6.6)	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 Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
- 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 Zero.

2. Specifications

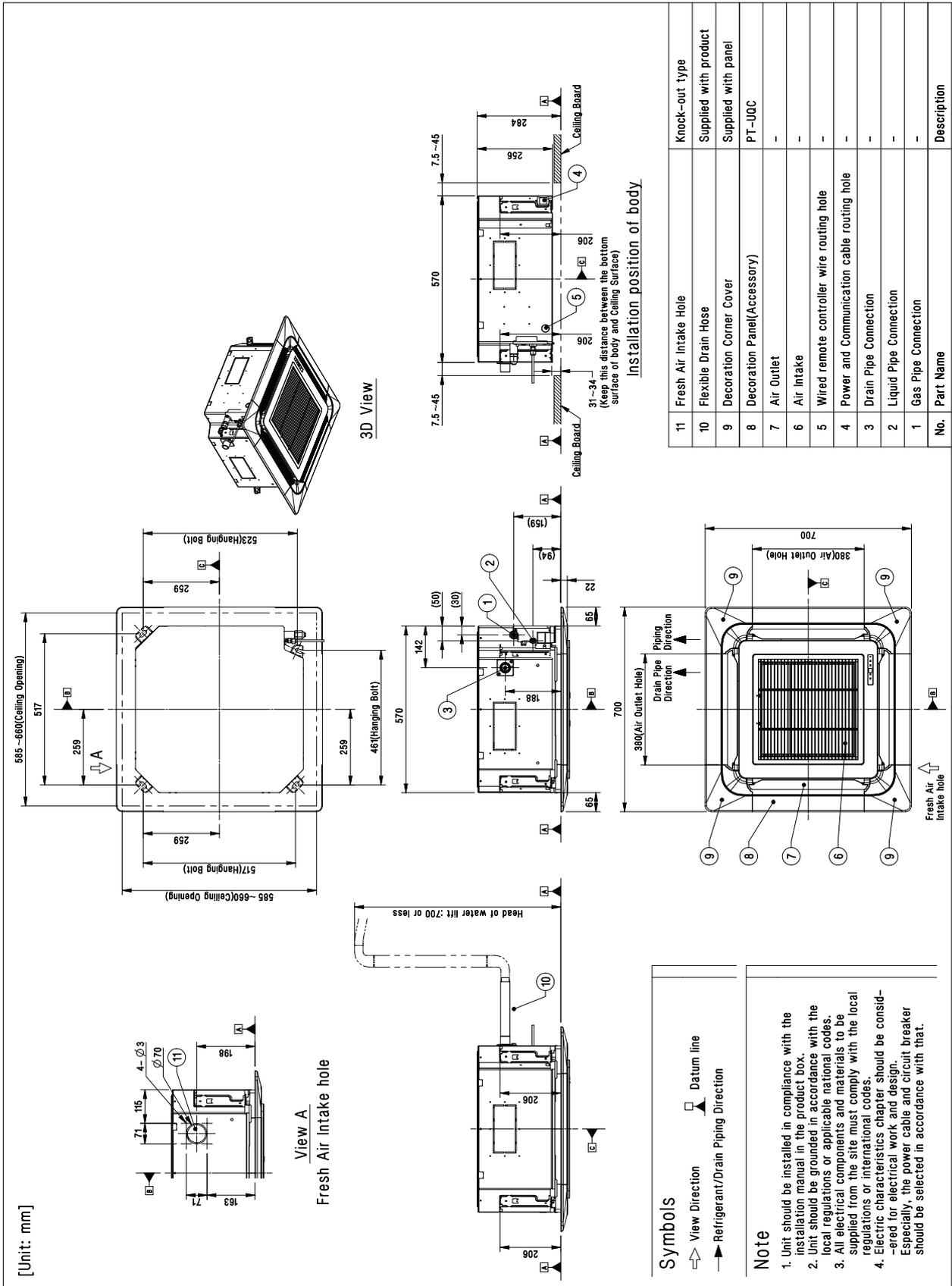
Model Name				AMNW18GTQA0	AMNW24GTPA0
Power Supply		V, Ø, Hz		220-240, 1, 50	220-240, 1, 50
Power Input		Min / Nom / Max	W	10 / 30 / 40	20 / 50 / 60
Running Current		A		0.4	0.6
Casing Color		-		-	-
Dimensions	Body	W x H x D	mm	570 × 256 × 570	840 × 204 × 840
		W x H x D	inch	22-7/16 x 10-3/32 x 22-7/16	33-1/16 x 8-1/32 x 33-1/16
Net Weight	Body	kg (lbs)		15.5 (34.2)	20.5 (45.2)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 10 x 18) x 1	(2 x 8 x 19) x 1
	Face Area		m ² (ft ²)	0.28 (3.00)	0.35 (3.77)
Fan	Type	-		Turbo Fan	Turbo Fan
	Air Flow Rate	H / M / L	m ³ /min	13.0 / 12.0 / 11.0	17.0 / 15.0 / 13.0
		H / M / L	ft ³ /min	459 / 424 / 353	600 / 530 / 459
Fan Motor	Type	-		BLDC	BLDC
	Output	W x No.		43 x 1	60 x 1
Sound Pressure Level	H / M / L		dB(A)	41 / 39 / 36	38 / 36 / 34
Sound Power Level	Max.		dB(A)	55	57
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		
	-		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	PT-UMC(1)
	Casing Color		-	Morning Fog	Morning Fog
	Dimensions	W x H x D	mm	700 × 22 × 700	950 × 25 × 950
		W x H x D	inch	27-9/16 x 7/8 x 27-9/16	37-13/32 x 31/32 x 37-13/32
Net weight		kg (lbs)		3.0 (6.6)	5.0 (11.0)

Note

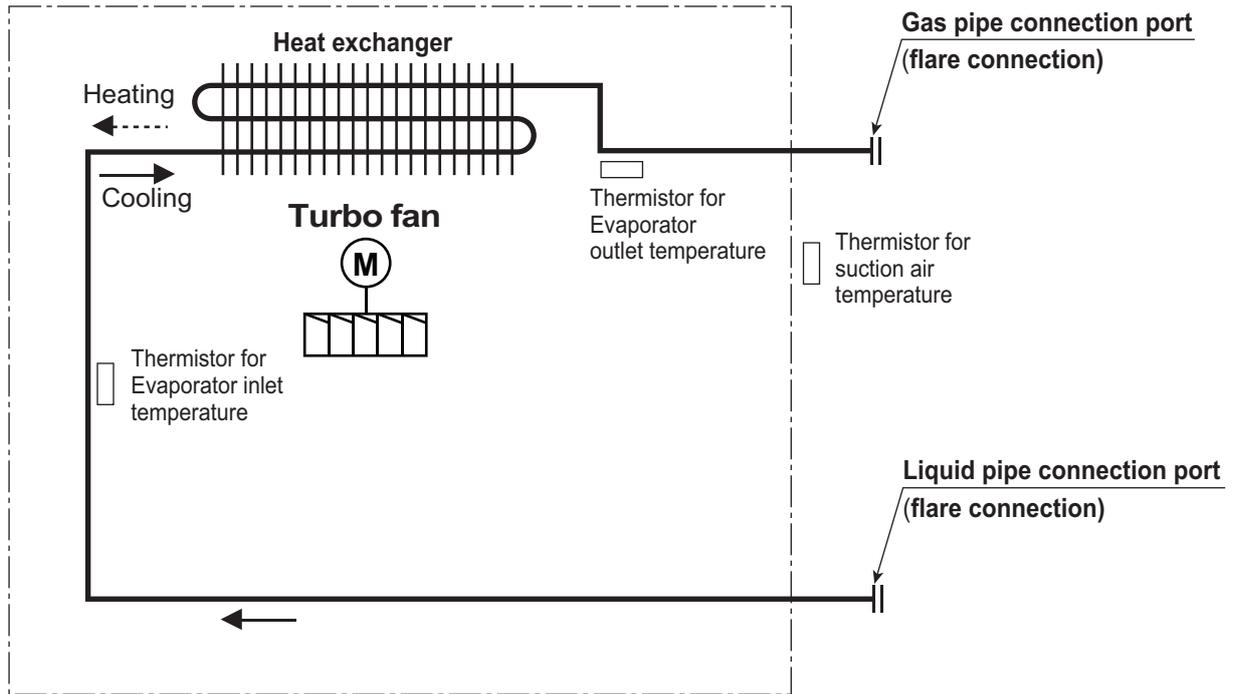
- Due to our policy of innovation some specifications may be changed without notification.
 - Wiring cable size must comply with the applicable local and national code. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
 - Sound Level Values are measured at Anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
 - 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 Zero.
- * : For combined with Multi F/FDX system, socket provided with indoor units should be connected.

3. Dimensions

[TQ Chassis] AMNW18GTQA0



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

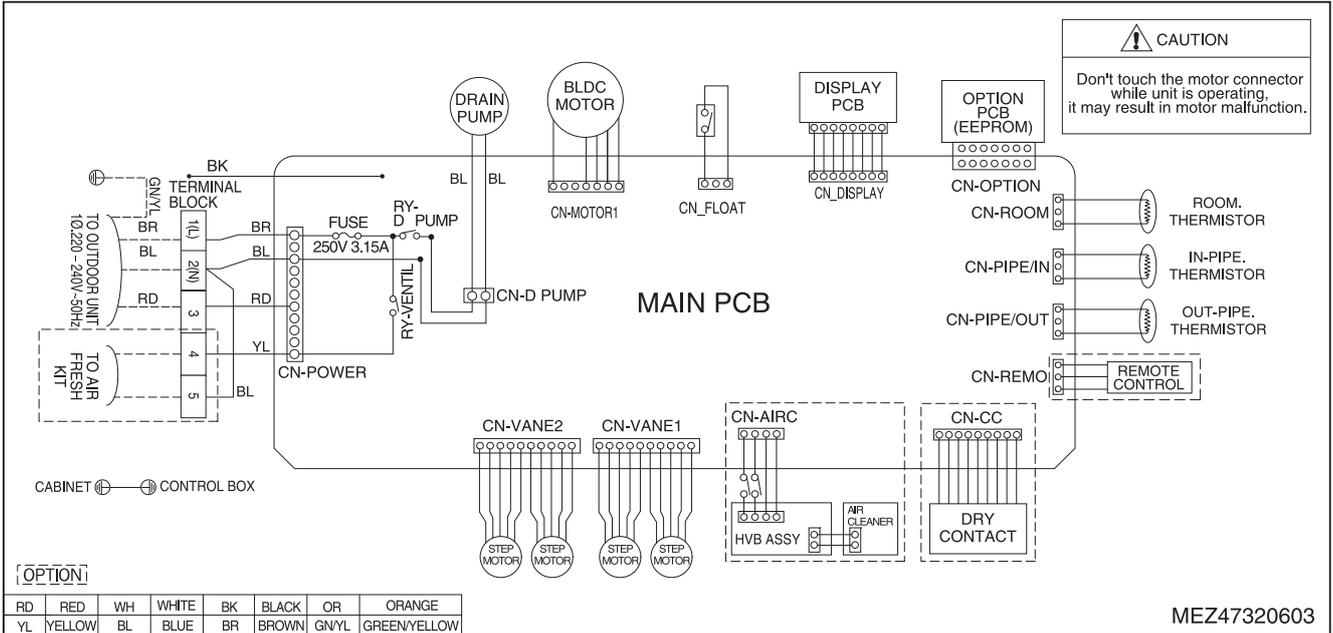
◆ Refrigerant pipe connection port diameters

Model	Gas [Unit:mm]	Liquid [Unit:mm]
AMNH07GTRA0 AMNW09GTRA0 AMNW12GTRA0	Ø9.52	Ø6.35
AMNW18GTQA0	Ø12.7	
AMNW24GTPA0	*Ø12.7	*Ø6.35

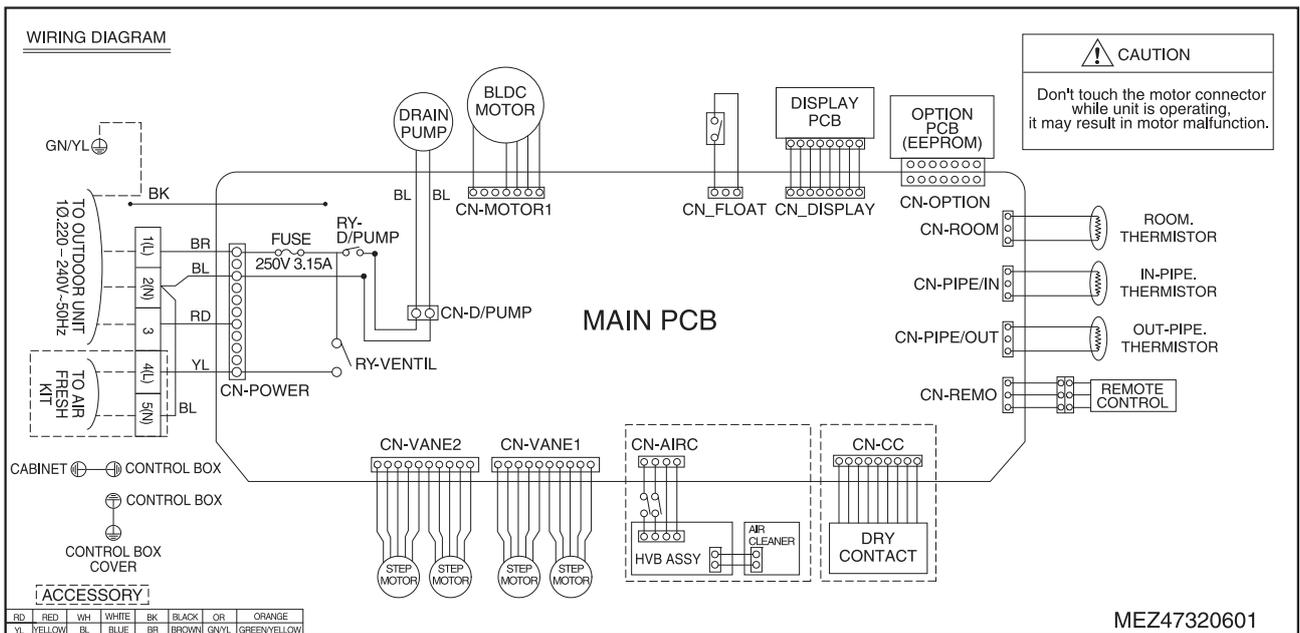
* : For combined with Multi F/FDX system, socket provided with indoor units should be connected.

5. Wiring Diagrams

Models: AMNH-TR / AMNW-TR / AMNW-TQ



Models : AMNW-TP

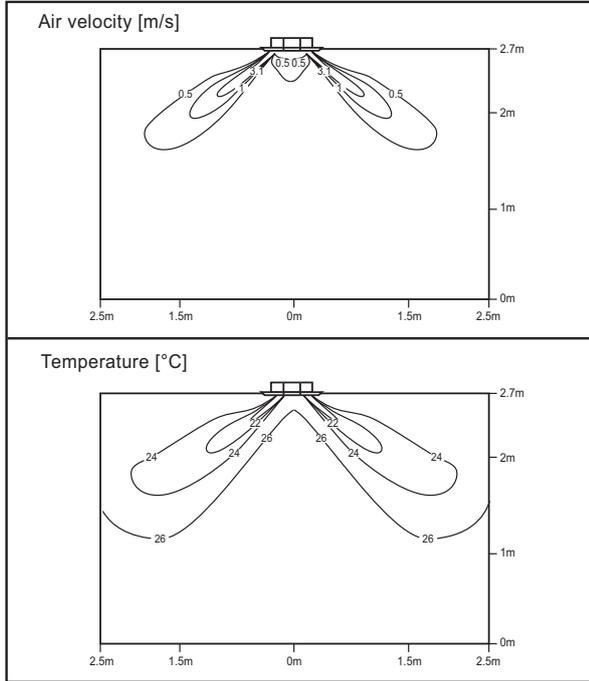


6. Air flow and temperature distributions (reference data)

■ Model : AMNH07GTRA0

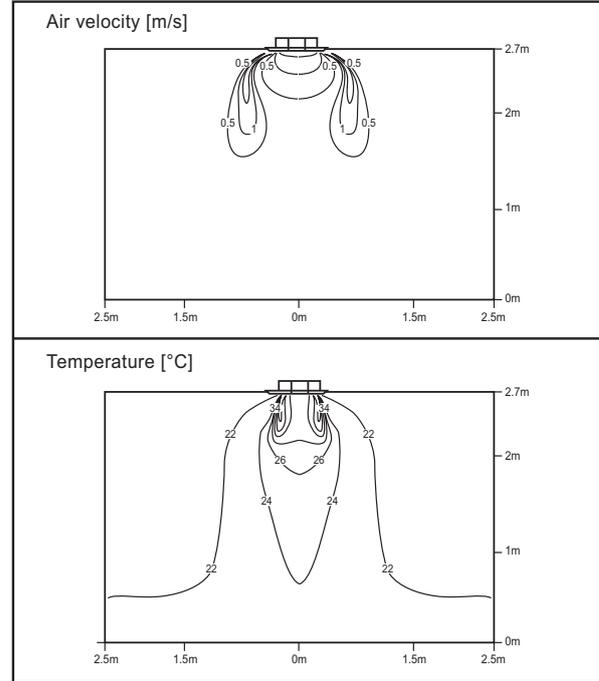
Cooling

Discharge angle: 40°



Heating

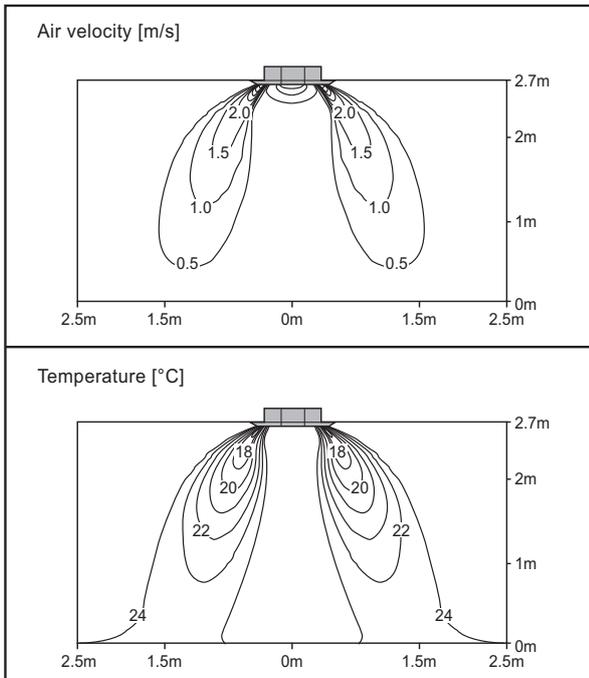
Discharge angle: 50°



■ Model : AMNW09GTRA0, AMNW12GTRA0

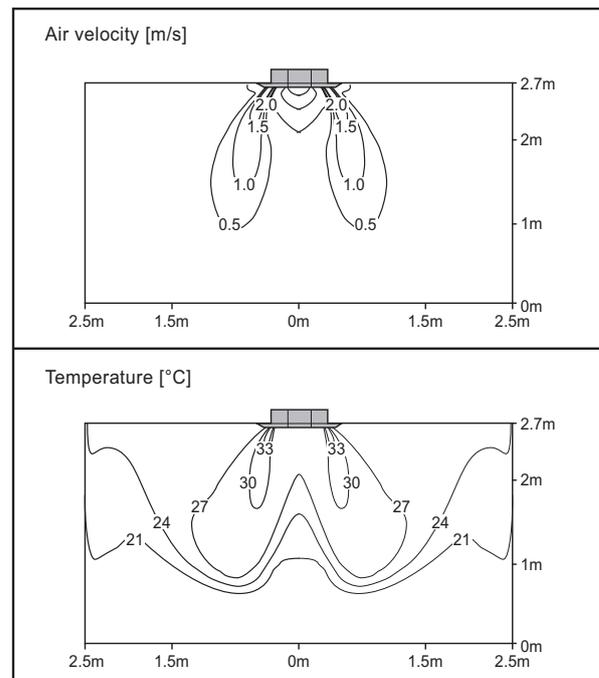
Cooling

Discharge angle: 40°



Heating

Discharge angle: 50°

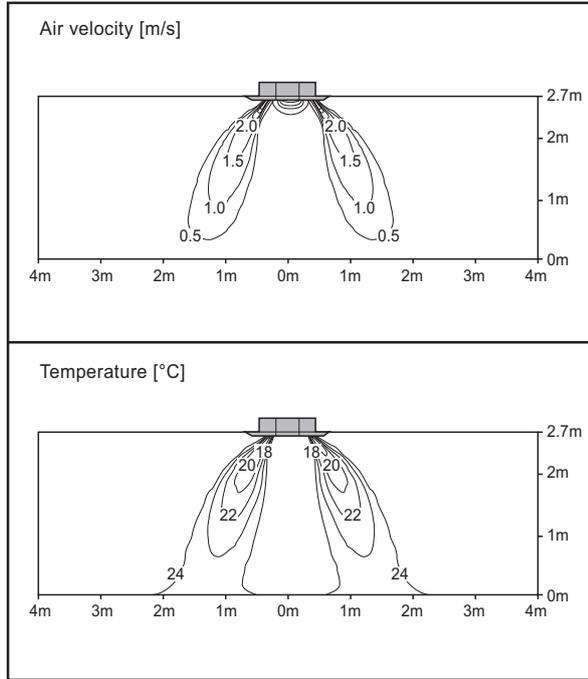


6. Air flow and temperature distributions (reference data)

■ Model : AMNW18GTQA0

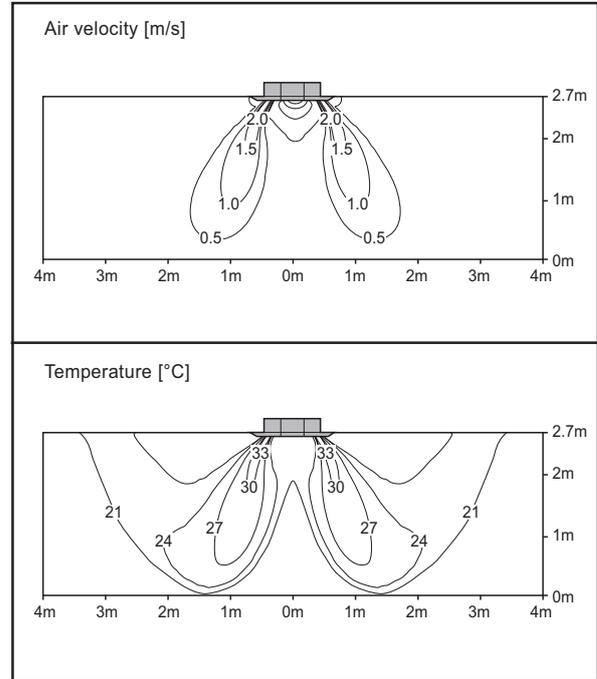
Cooling

Discharge angle: 40°



Heating

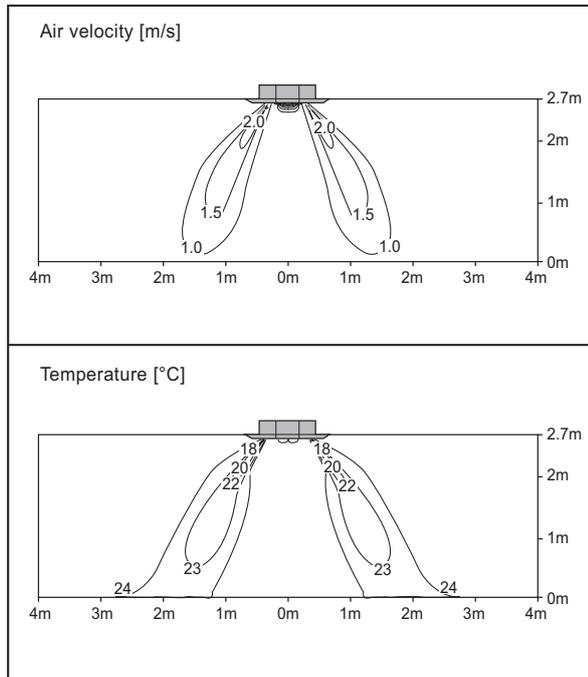
Discharge angle: 50°



■ Model : AMNW24GTPA0

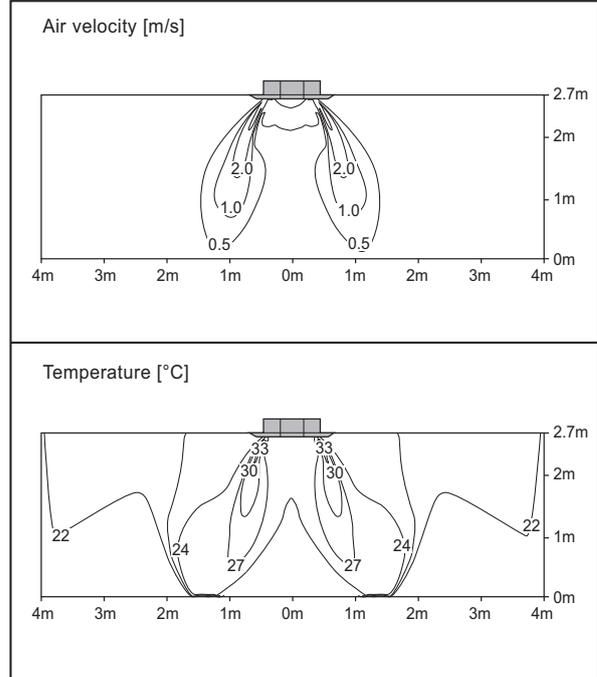
Cooling

Discharge angle: 40°



Heating

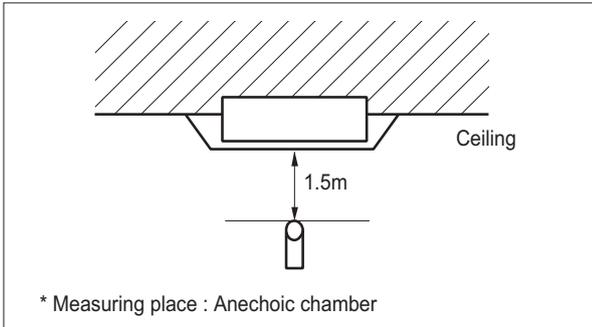
Discharge angle: 50°



7. Sound levels

7.1 Sound pressure level

Overall

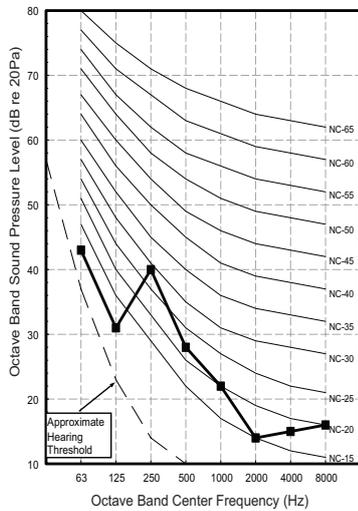


Note

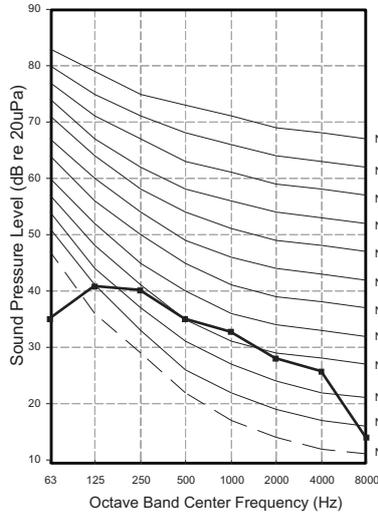
- Sound measured at 1.5m away from the center of the unit.
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Reference acoustic pressure 0dB=20μPa.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) 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
AMNH07GTRA0	31	27	24
AMNW09GTRA0	36	33	30
AMNW12GTRA0	38	35	32
AMNW18GTQA0	41	39	36
AMNW24GTPA0	38	36	34

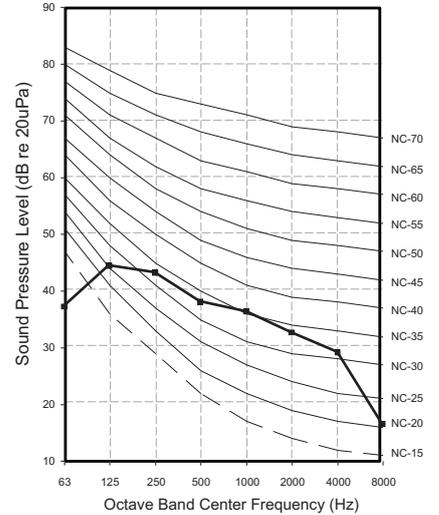
AMNH07GTRA0



**AMNW09GTRA0
AMNW12GTRA0**

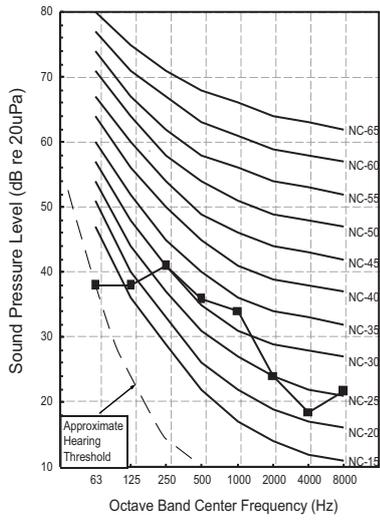


AMNW18GTQA0



7. Sound levels

AMNW24GTPA0



7. Sound levels

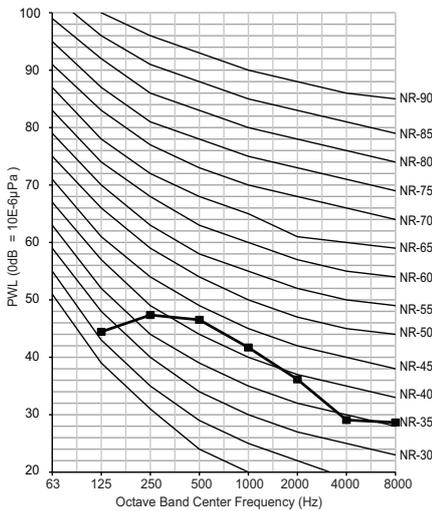
7.2 Sound power level

Note

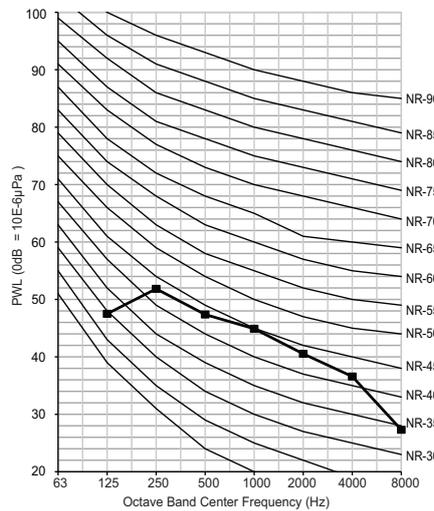
1. Reference acoustic intensity 0dB = 10E-6μW/m²
2. Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.

Model	Sound power level [dB(A)]
	H
AMNH07GTRA0	48
AMNW09GTRA0	48
AMNW12GTRA0	51
AMNW18GTQA0	55
AMNW24GTPA0	57

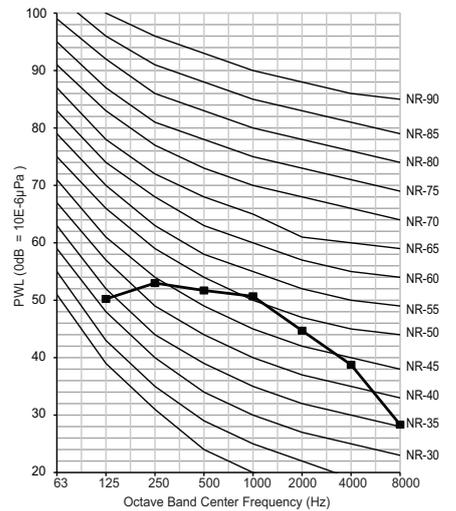
**AMNH07GTRA0
AMNW09GTRA0**



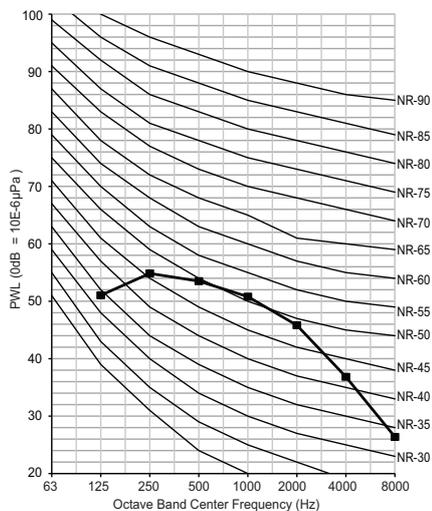
AMNW12GTRA0



AMNW18GTQA0

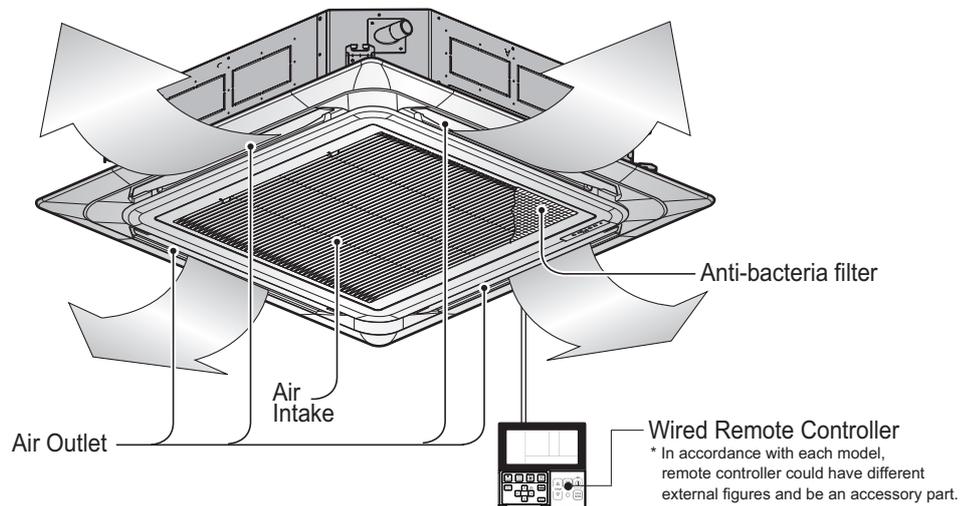


AMNW24GTPA0



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.)

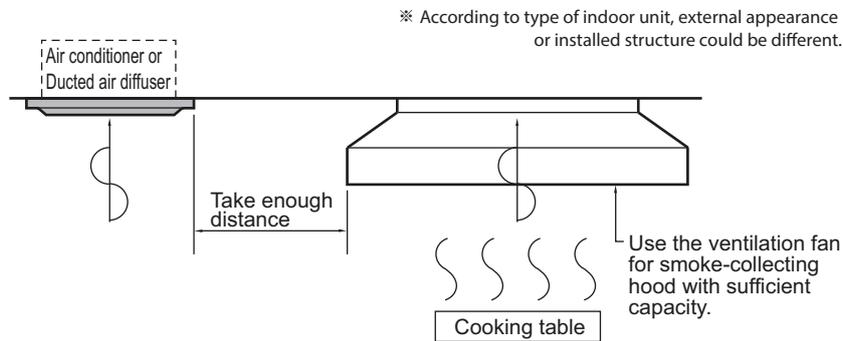


8.1 Selection of the best location

- The place where room air circulation is good.
- 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;

8. Installation

- 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.



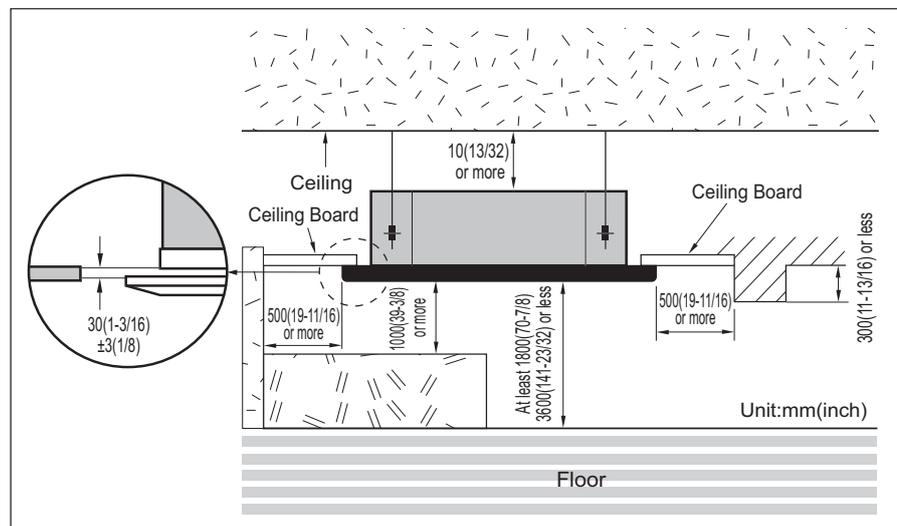
2. Avoid installing air conditioner in such places where cooking oil or iron powder is generated.
3. Avoid places where inflammable gas is generated.
4. Avoid place where noxious gas is generated.
5. Avoid places near high frequency generators.

⚠ CAUTION

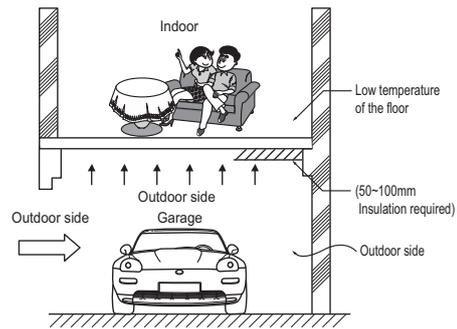
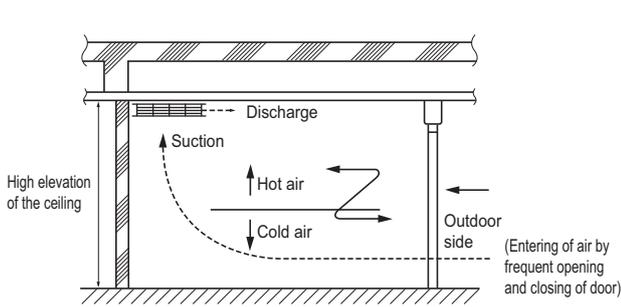
- If the temperature rise above 30°C or the humidity rise above RH 80%, the dew-protective kit should be equipped or use additional insulation to the indoor unit body.
 - "Dew Protective kit" is sold separately.
 - Use the glass wool material or polyethylene foam and it make sure to be thick of 10mm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

TQ/TR Chassis

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



8. Installation



◆ **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

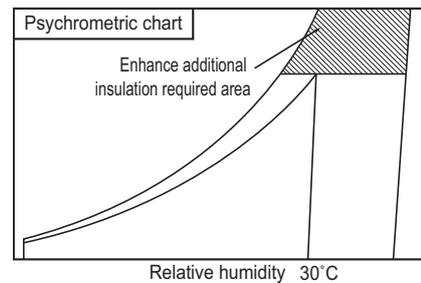
- In case there is a cold air intake,
 - » The duct surface may have some dew drops. So a insulation on the duct is a must.(Insulation material: a glass wool of thickness 25 mm will be appropriate.)

• 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.

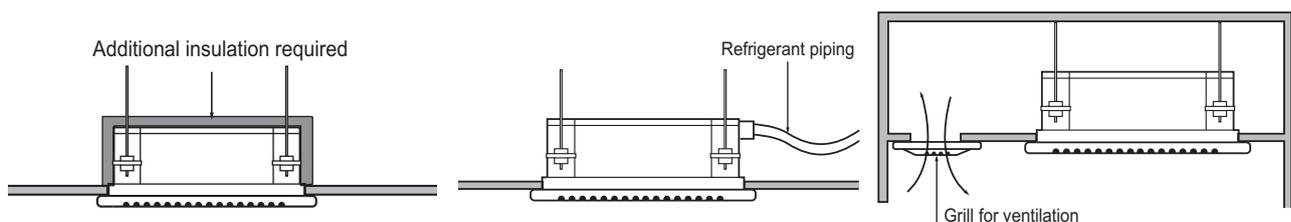
◆ **In case of high temperature or humidity between the false ceiling and ceiling slab**

- 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.



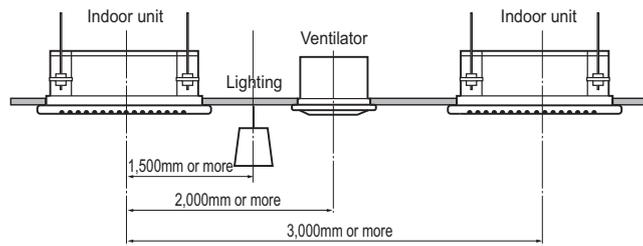
• Countermeasure method

- 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 th air tight seal places. (To escape of the humidity inside false ceiling)



8. Installation

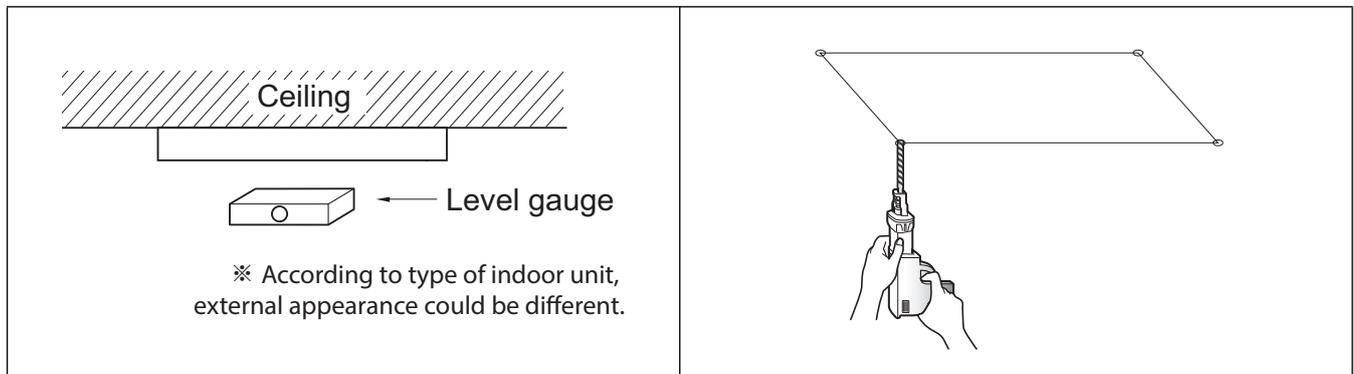
◆ In case of multiple indoor cassette units (recommended)



8.3 Ceiling opening dimensions and hanging bolt location

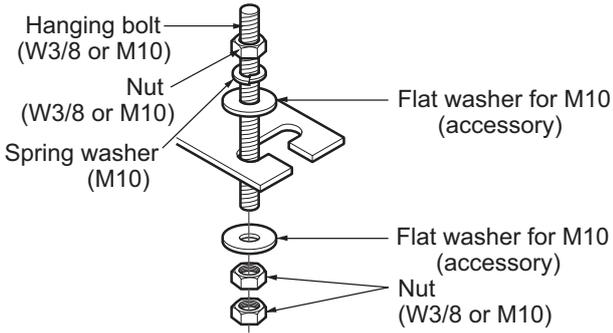
⚠ CAUTION

- 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

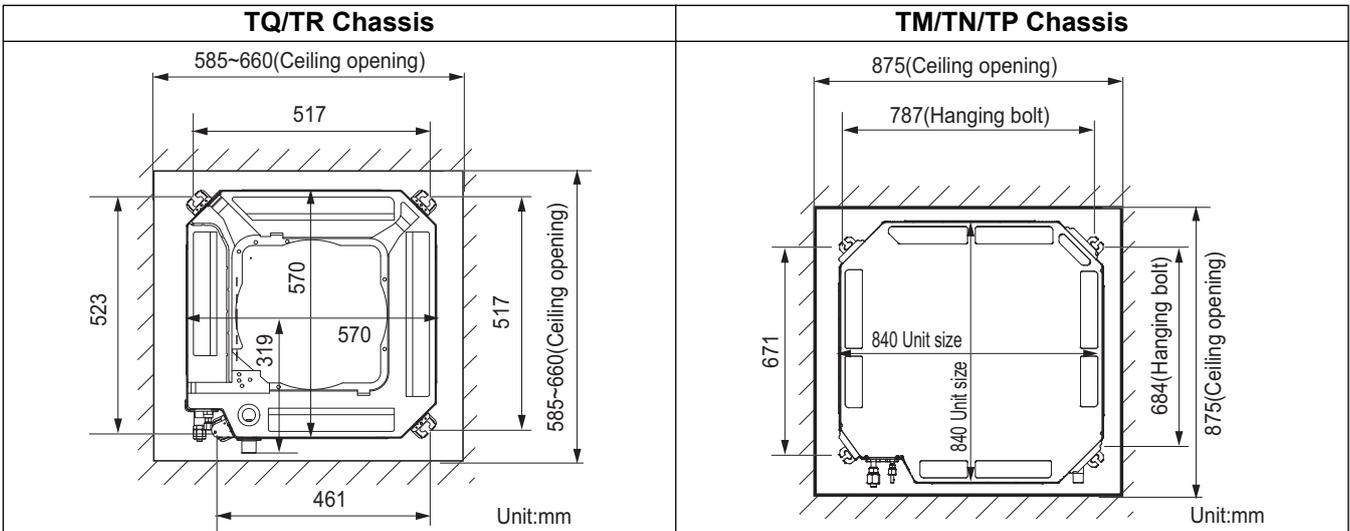
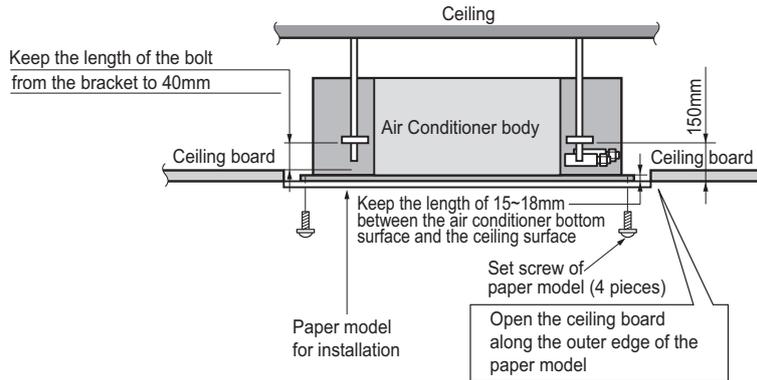
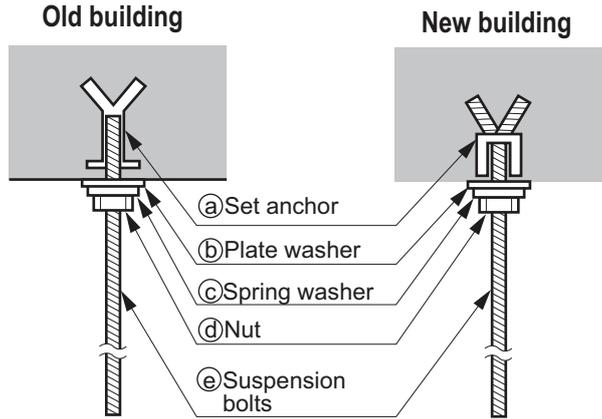


- The following parts are local purchasing.

 - 1.Hanging bolt - W 3/8 or M10
 - 2.Nut - W 3/8 or M10
 - 3.Spring washer - M10
 - 4.Plate washer - M10

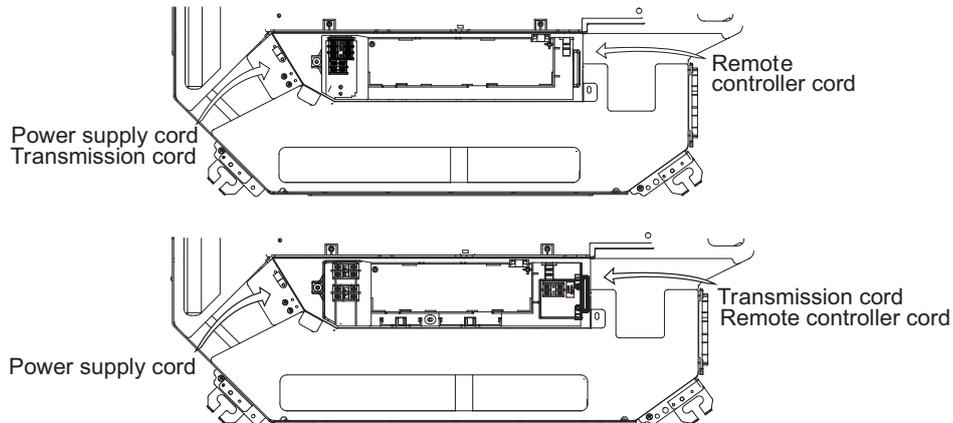
CAUTION

- Tighten the nut and bolt to prevent the unit from falling.



8. Installation

8.4 Connecting Cables between Indoor Unit and Outdoor Unit



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. Installation

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 0.75mm² 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.

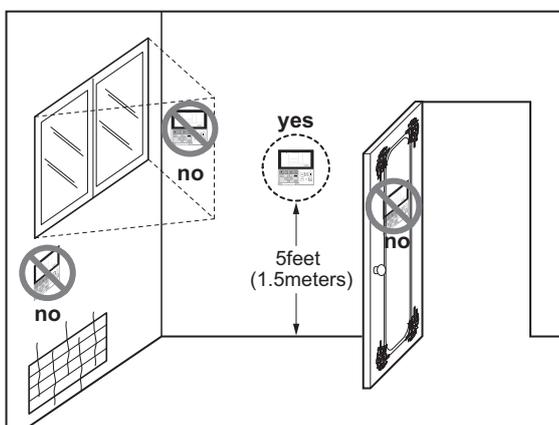
⚠ WARNING

- 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.)

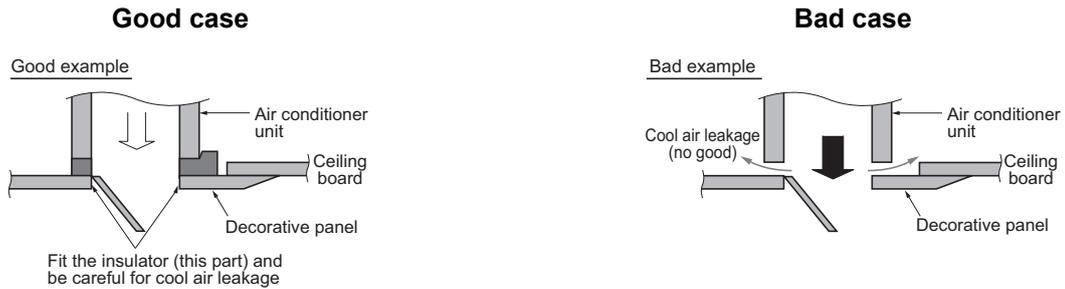
8. Installation

8.5 Installation of Decoration Panel

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

⚠ CAUTION

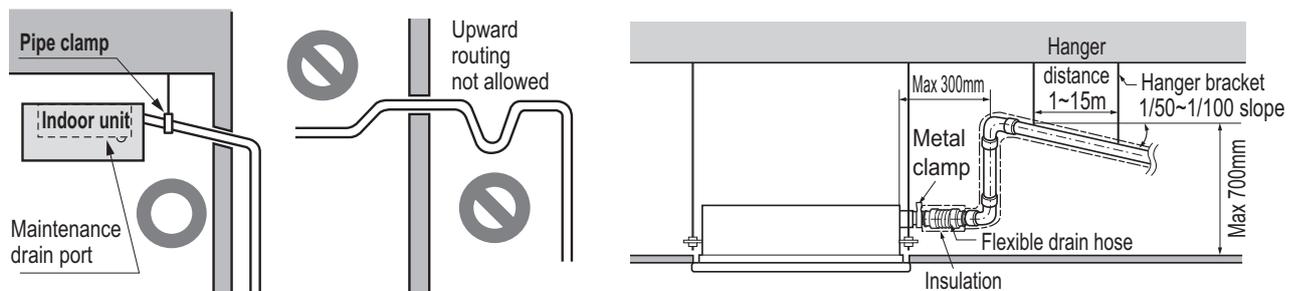
- Install certainly the decoration panel. Cool air leakage causes sweating or falling of water-drops.



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.

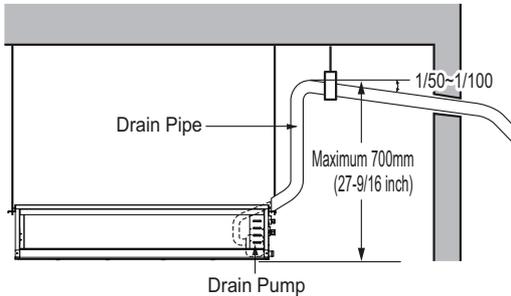


※ According to type of indoor unit, external appearance could be different.

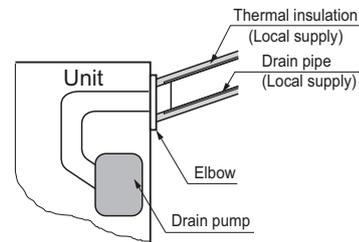
※ According to type of indoor unit, external appearance could be different.

8. Installation

- 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.

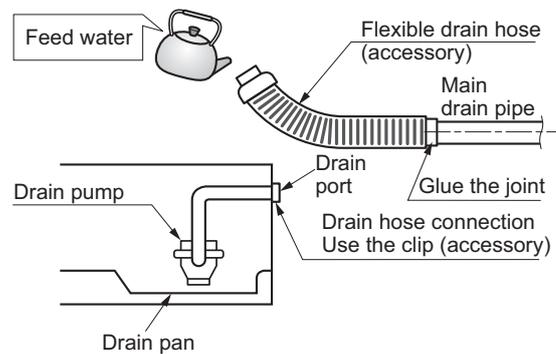


8.6.2 Method of Drainage test

◆ Drainage test of indoor unit with drain pump

Use the following procedure to test the drain pump operation.

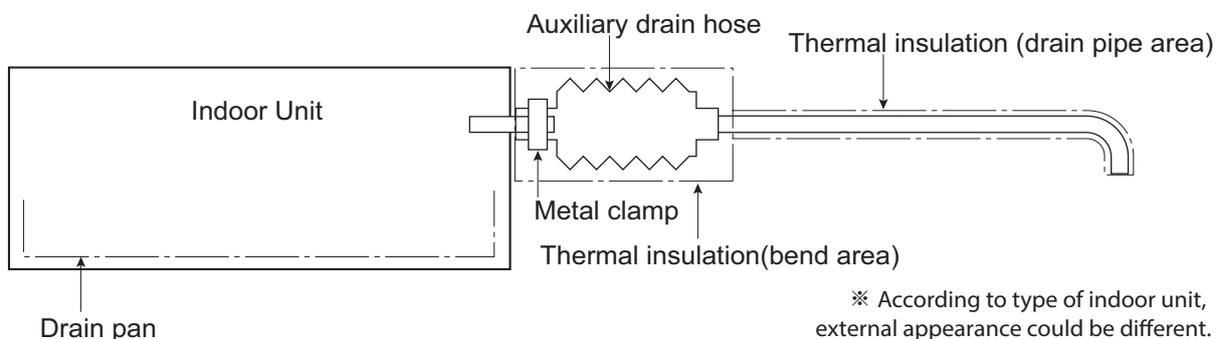
1. Connect the main drain pipe to the exterior and leave it provisionally until the test comes to an end.
2. Feed water to the flexible drain hose and check the piping for leakage.
3. Be sure to check the drain pump for normal operating and noise when electrical wiring is complete.
4. When the test is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

8.6.3 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.



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

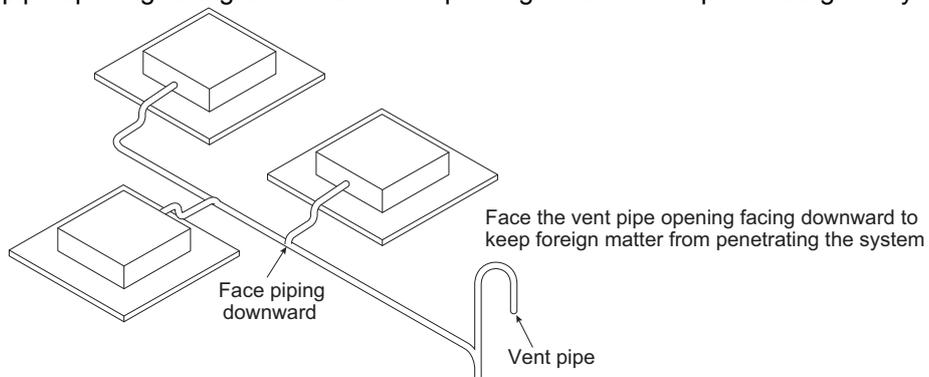
⚠ CAUTION

- 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

8.6.4 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.





Air Solution

LG Electronics Inc, 128, Yeoui-daero,
Yeongdeungpo-gu, Seoul, Korea
(07336)
<http://partner.lge.com>

Copyright © 2018 LG Electronics Inc.
All Rights Reserved.
Printed in Korea February / 2018

The air conditioners manufactured by LG have received ISO9001 certificate for quality assurance and ISO14001 certificate for environmental management system.
The specifications, designs, and information in this brochure are subject to change without notice.