LG

TOTAL HVAC SOLUTION PROVIDER

ENGINEERING PRODUCT DATA BOOK

MULTI

Indoor unit

0CIM0-04C (Replaces 0CIM0-04B)

LG Life's Good

P/No. : MFL67502507

MULTI
Indoor Unit

General information

Product data

MULTI
Indoor Unit

General information

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

1. Model Line Up

◆ Cooling Only

Category		Chassis Name	Capacity Index [kW (kBtu/h)]			
			2.6 (9)	3.5 (12)	5.3 (18)	7.0 (24)
Wall Mounted Unit	Standard plus	SJ	O	O		
		SK			O	O
	Standard	SJ	O	O		
		SK			O	O
ART COOL Mirror		SJ	O	O		
		SK			O	O
Ceiling Mounted Cassette	1-Way	TU	O	O		
		TT			O	O
	4-Way	TR		O		
		TQ			O	
		TP				O
Ceiling Concealed Duct	High Static Pressure	BH			O	O
	Low Static Pressure	L1	O			
		L2		O	O	
		L3				O

◆ Heat Pump

Category		Chassis Name	Capacity Index [kW (kBtu/h)]				
			2.6 (9)	3.5 (12)	4.2 (15)	5.3 (18)	7.0 (24)
Wall Mounted Unit	Standard plus	SJ	O	O	O		
		SK				O	O
Ceiling Mounted Cassette	1-Way	TU	O	O			
		TT				O	
Ceiling Concealed Duct	Low Static Pressure	L1	O				
		L2		O		O	
		L3					O

2. External Appearance

<table>
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• **Wall Mounted Unit (Standard plus) - Cooling Only**

AMNC09GDJA0
AMNC12GDJA0
AMNC18GDKA0
AMNC24GDKA0

AMNQ09GSJB0
AMNQ12GSJB0
AMNQ18GSKB0
AMNQ24GSKB0

AMNQ09GSJC0
AMNQ12GSJC0
AMNQ18GSKC0
AMNQ24GSKC0

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• **Wall Mounted Unit (Standard)**

AMNQ09GSJA0
AMNQ12GSJA0
AMNQ18GSKA0
AMNQ24GSKA0

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• **Wall Mounted Unit (Standard Plus) - Heat Pump**

AMNW09GSJB0
AMNW12GSJB0
AMNW15GSJB0
AMNW18GSKB0
AMNW24GSKB0

AMNW12GSJC0
AMNW18GSKC0
AMNW24GSKC0

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• **ART COOL Mirror**

AMNC09GDJR0
AMNC12GDJR0
AMNC18GDKR0
AMNC24GDKR0

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• **Ceiling Mounted Cassette 1-way- Cooling Only**

AMNC09GTUA0
AMNC12GTUA0
AMNC18GTTA0
AMNC24GTTA0

AMNQ09GTUA0
AMNQ12GTUA0
AMNQ18GTTA0
AMNQ24GTTA0

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• **Ceiling Mounted Cassette 1-way - Heat Pump**

AMNW09GTUA0
AMNW12GTUA0
AMNW18GTTA0

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• **Ceiling Mounted Cassette 4-way**

AMNC12GTRA2
AMNC18GTQA2
AMNC24GTPA2

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• **Celling Concealed Duct - Low static pressure(Cooling Only)**

AMNQ09GL1A0
AMNQ12GL2A0
AMNQ18GL2A0
AMNQ24GL3A0

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• **Ceiling Concealed Duct – Low static pressure(Heat Pump)**

AMNW09GL1A2
AMNW12GL2A2
AMNW18GL2A2
AMNW24GL3A2

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• **Celling Concealed Duct – High static pressure**

AMNC18GBHA2
AMNC24GBHA2

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3. Nomenclature

3.1 Global Name

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

No.	Signification
1	**AMN : Indoor units using R410A for Multi System**
2	**Model type** W/H : Heat pump, C/Q : Cooling Only
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	**Indoor unit type for AMN- series models** D/S : Wall Mounted Unit / ART COOL Mirror T : Ceiling Mounted Cassette B, M, L: Ceiling Concealed Duct
6	**Indoor unit type for AMN-series models** Chassis name
7	**Functions for Ceiling Mounted Cassette, Ceiling Concealed Duct** A : Basic, C/L : Plasma, E : Elevation grille **Functions for Wall Mounted Unit (AMNQ-/AMNW- series)** A : Non-Ionizer + 2 Way Air flow B/C : Non-Ionizer + 4 Way Air flow + Wi-Fi **Functions for Wall Mounted Unit (AMNC- series)** A : Non-Ionizer + 4 Way Air flow + Wi-Fi **Panel Colors for ARTCOOL Mirror (AMNC- series)** R : Mirror (Ionizer + 4 Way Air flow + Wi-Fi)
8	**Serial number**

MULTI
Indoor Unit

Product data

Wall mounted Unit
ART COOL Mirror
Ceiling cassette 1-way
Ceiling cassette 4-way
Ceiling concealed duct - High static pressure
Ceiling concealed duct - Low static pressure

MULTI
Indoor Unit

Wall Mounted Unit

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

1. List of functions

■ Cooling Only (Standard plus)

◆ Basic functions of Indoor Unit

Category	Functions	AMNC09GDJA0, AMNC12GDJA0 AMNC18GDKA0,AMNC24GDKA0	AMNQ09GSJB0, AMNQ12GSJB0 AMNQ18GSKB0, AMNQ24GSKB0 AMNQ09GSJC0, AMNQ12GSJC0 AMNQ18GSKC0, AMNQ24GSKC0
Air flow	Air supply outlet	1	1
	Airflow direction control (left & right)	O (5 Steps)	O (5 Steps)
	Airflow direction control (up & down)	O (6 Steps)	O (6 Steps)
	Auto swing (left & right)	O	O
	Auto swing (up & down)	O	O
	Airflow steps (fan/cool/heat)	6 / 6 / X	6 / 6 / X
	Chaos wind(auto wind)	O	O
	Jet cool/heat	O / X	O / X
	Comfort Air	O	O
Air purification	Triple filter (Deodorization)	X	X
	Plasma air purifier (Ionizer)	X	X
	Allergy Safe filter	X	X
	Pre-Filter	O	O
Installation	Drain pump	X	X
	E.S.P. control*	X	X
	Electric heater	X	X
	High ceiling operation*	X	X
Reliability	Hot start	X	X
	Self diagnosis	O	O
	Dry Operation	O	O
Convenience	Auto changeover	X	X
	Auto cleaning (Coil Dry)	O	O
	Auto operation(artificial intelligence)	O	O
	Auto Restart	O	O
	Child lock*	O	O
	Forced operation	O	O
	Group control*	X	X
	Sleep mode	O (7hr)	O (7hr)
	Timer(on/off)	O	O
	Timer(weekly)*	O	O
	Two thermistor control*	O	O
	Auto Elevation Grille	X	X
Special Functions	Wi-Fi	O	O
	Humidity Control	X	X
Comes with product	Wireless Remote Controller	O (AKB74955615**)	O (AKB74955614**)
	Wired Remote Controller	X	X
Network Solution(LGAP)		O	O

Note

1. O : Applied, X : Not applied
   Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
   Accessory line-ups varies by region, so check your local catalogue or local sales material.
2. Some functions can be limited by remote controller.
3. In case of 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

◆ Accessory Compatibility List

Category		Product	Remark	AMNC09GDJA0 AMNC12GDJA0 AMNC18GDKA0 AMNC24GDKA0 AMNQ09GSJB0 AMNQ12GSJB0 AMNQ18GSKB0 AMNQ24GSKB0 AMNQ09GSJC0 AMNQ12GSJC0 AMNQ18GSKC0 AMNQ24GSKC0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	X
		PQWRCQ0FDB	Cooling Only	O
		PWLSSB21H	Heat Pump	X
		PWLSSB21C	Cooling Only	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	X
		PQRCHCA0Q(W)	for Hotel	X
	Standard	PREMTB001	Standard (White)	O
		PREMTBB01	Standard (Black)	O
		PREMTB100**	New Standard (White)	X
	Premium	PREMTA000(A/B)	Premium	X
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	For 3rd Party Thermostat	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O
		PDRYCB500	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	-	O

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

■ Cooling Only (Standard)

◆ Basic functions of Indoor Unit

Category	Functions	AMNQ09GSJA0, AMNQ12GSJA0 AMNQ18GSKA0, AMNQ24GSKA0
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 / X
	Chaos wind(auto wind)	O
	Jet cool/heat	O / X
	Swirl wind	X
Air purification	Triple filter (Deodorization)	X
	Plasma air purifier	X
	Allergy Safe filter	X
	Pre-Filter	O
Installation	Drain pump	X
	E.S.P. control*	X
	Electric heater	X
	High ceiling operation*	X
Reliability	Hot start	X
	Self diagnosis	O
	Dry Operation	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

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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

◆ Accessory Compatibility List

Category		Product	Remark	AMNQ09GSJA0 AMNQ12GSJA0 AMNQ18GSKA0 AMNQ24GSKA0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	X
		PQWRCQ0FDB	Cooling Only	O
		PWLSSB21H	Heat Pump	X
		PWLSSB21C	Cooling Only	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	For 3rd Party Thermostat	X
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	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

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1. List of functions

■ Heat Pump (Standard plus)

◆ Basic functions of Indoor Unit

Category	Functions	AMNW09GSJB0, AMNW12GSJB0, AMNW15GSJB0 AMNW18GSKB0, AMNW24GSKB0 AMNW12GSJC0, AMNW18GSKC0, AMNW24GSKC0
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
	Comfort Air	O
Air purification	Triple filter (Deodorization)	X
	Plasma air purifier (Ionizer)	X
	Allergy Safe filter	X
	Pre-Filter	O
Installation	Drain pump	X
	E.S.P. control*	X
	Electric heater	X
	High ceiling operation*	X
Reliability	Hot start	O
	Self diagnosis	O
	Dry Operation	O
Convenience	Auto changeover	X
	Auto cleaning (Coil Dry)	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 (AKB74955603**)
	Wired Remote Controller	X
Network Solution(LGAP)		O

Note

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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

◆ Accessory Compatibility List

Category		Product	Remark	AMNW09GSJB0 AMNW12GSJB0 AMNW15GSJB0 AMNW18GSKB0 AMNW24GSKB0 AMNW12GSJC0 AMNW18GSKC0 AMNW24GSKC0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
		PQWRCQ0FDB	Cooling Only	X
		PWLSSB21H	Heat Pump	O
		PWLSSB21C	Cooling Only	X
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	X
		PQRCHCA0Q(W)	for Hotel	X
	Standard	PREMTB001	Standard (White)	O
		PREMTBB01	Standard (Black)	O
		PREMTB100**	New Standard (White)	X
	Premium	PREMTA000(A/B)	Premium	X
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	For 3rd Party Thermostat	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O
		PDRYCB500	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	-	O

Note

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2. * : Some advanced functions controlled by individual controller cannot be operated.
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2. Specifications

■ Cooling Only (Standard plus)

Model Name				AMNC09GDJA0	AMNC12GDJA0
Power Supply			V, Ø, Hz	220-240,1, 50/60	220-240,1, 50/60
Power Input	Min./Nom./Max.		W	9 / 18 / 30	9 / 19 / 30
Running Current	Min./Nom./Max.		A	0.12 / 0.16 / 0.20	0.12 / 0.17 / 0.20
Casing Color			-	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)
Dimensions	Body	W × H × D	mm	818 × 316 × 189	818 × 316 × 189
		W × H × D	inch	32-7/32 × 12-7/16 × 7-7/16	32-7/32 × 12-7/16 × 7-7/16
	Shipping	W × H × D	mm	892 × 381 × 249	892 × 381 × 249
		W × H × D	inch	35-1/8 × 15 × 9-13/16	35-1/8 × 15 × 9-13/16
Weight	Body		kg (lbs)	8.2 (18.1)	8.2 (18.1)
	Shipping		kg (lbs)	10.2 (22.5)	10.2 (22.5)
Heat Exchanger	(Row × Column × Fins per inch)×No.		-	(2 × 23 × 22) × 1	(2 × 23 × 22) × 1
	Face Area		m² (ft²)	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	7.7 / 6.4 / 5.0	8.1 / 6.7 / 5.3
		H / M / L	ft³/min	272 / 226 / 177	286 / 237 / 187
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 × 1	30 × 1
Sound Pressure Level		H / M / L	dB(A)	36 / 32 / 27	38 / 34 / 29
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices			-	Fuse	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. × mm²	4C × 0.75	4C × 0.75

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

- * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNC18GDKA0	AMNC24GDKA0
Power Supply			V, Ø, Hz	220-240,1, 50/60	220-240,1, 50/60
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)	Munsell 7.5BG 10/2 (RAL 9016)
Dimensions	Body	W × H × D	mm	975 × 354 × 209	975 × 354 × 209
		W × H × D	inch	38-3/8 × 13-15/16 × 8-7/32	38-3/8 × 13-15/16 × 8-7/32
	Shipping	W × H × D	mm	1,063 × 420 × 274	1,063 × 420 × 274
		W × H × D	inch	41-27/32 × 16-17/32 × 10-25/32	41-27/32 × 16-17/32 × 10-25/32
Weight	Body		kg (lbs)	11.4 (25.1)	12.0 (26.5)
	Shipping		kg (lbs)	14.0 (30.9)	14.6 (32.2)
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		m² (ft²)	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	ft³/min	501 / 399 / 350	537 / 448 / 360
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 × 1	60 × 1
Sound Pressure Level		H / M / L	dB(A)	44 / 38 / 34	46 / 41 / 36
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	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. × mm²	4C × 0.75	4C × 0.75

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
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   - 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.

- * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNQ09GSJB0	AMNQ12GSJB0
Power Supply			V, Ø, Hz	220-240,1, 50/60	220-240,1, 50/60
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)	Munsell 7.5BG 10/2 (RAL 9016)
Dimensions	Body	W × H × D	mm	837 × 308 × 189	837 × 308 × 189
		W × H × D	inch	32-15/16 × 12-1/8 × 7-7/16	32-15/16 × 12-1/8 × 7-7/16
	Shipping	W × H × D	mm	892 × 381 × 249	892 × 381 × 249
		W × H × D	inch	35-1/8 × 15 × 9-13/16	35-1/8 × 15 × 9-13/16
Weight	Body		kg (lbs)	8.9 (19.6)	8.9 (19.6)
	Shipping		kg (lbs)	10.2 (22.5)	10.2 (22.5)
Heat Exchanger	(Row × Column × Fins per inch)×No.		-	(2 x 15 x 21) x 1	(2 x 15 x 21) x 1
	Face Area		m² (ft²)	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	ft³/min	325 / 261 / 198	339 / 286 / 198
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 × 1	30 × 1
Sound Pressure Level		H / M / L	dB(A)	36 / 33 / 27	40 / 35 / 27
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices			-	Fuse	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. × mm²	4C × 0.75	4C × 0.75

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

- * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNQ18GSKB0	AMNQ24GSKB0
Power Supply			V, Ø, Hz	220-240,1, 50/60	220-240,1, 50/60
Power Input	Min./Nom./Max.		W	24 / 40 / 60	27 / 45 / 60
Running Current	Min./Nom./Max.		A	0.20 / 0.28 / 0.40	0.24 / 0.33 / 0.40
Casing Color			-	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)
Dimensions	Body	W × H × D	mm	998 × 345 × 210	998 × 345 × 210
		W × H × D	inch	39-9/32 × 13-19/32 × 8-9/32	39-9/32 × 13-19/32 × 8-9/32
	Shipping	W × H × D	mm	1,063 × 420 × 274	1,063 × 420 × 274
		W × H × D	inch	41-27/32 × 16-17/32 × 10-25/32	41-27/32 × 16-17/32 × 10-25/32
Weight	Body		kg (lbs)	11.4 (25.1)	12.1 (26.7)
	Shipping		kg (lbs)	13.2 (29.1)	13.9 (30.6)
Heat Exchanger	(Row × Column × Fins per inch)×No.		-	(2 × 16 × 20)×1	(2 × 16 × 20)×1
	Face Area		m² (ft²)	0.24 (2.58)	0.24 (2.58)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m^3/min	15.8 / 12.4 / 10.0	16.9 / 12.8 / 10.4
		H / M / L	ft³/min	558 / 438 / 353	597 / 452 / 367
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 × 1	60 × 1
Sound Pressure Level		H / M / L	dB(A)	44 / 38 / 34	46 / 41 / 36
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	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. × mm²	4C × 0.75	4C × 0.75

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

- * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNQ09GSJC0	AMNQ12GSJC0
Power Supply			V, Ø, Hz	220-240,1, 50	220-240,1, 50
Power Input	Min./Nom./Max.		W	11 / 18 / 30	11 / 19 / 30
Running Current	Min./Nom./Max.		A	0.10 / 0.16 / 0.20	0.10 / 0.17 / 0.20
Casing Color			-	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)
Dimensions	Body	W × H × D	mm	818 × 316 × 189	818 × 316 × 189
		W × H × D	inch	32-7/32 × 12-7/16 × 7-7/16	32-7/32 × 12-7/16 × 7-7/16
	Shipping	W × H × D	mm	892 × 381 × 249	892 × 381 × 249
		W × H × D	inch	35-1/8 × 15 × 9-13/16	35-1/8 × 15 × 9-13/16
Weight	Body		kg (lbs)	8.9 (19.6)	8.9 (19.6)
	Shipping		kg (lbs)	10.2 (22.5)	10.2 (22.5)
Heat Exchanger	(Row × Column × Fins per inch)×No.		-	(2 × 15 × 21) × 1	(2 × 15 × 21) × 1
	Face Area		m² (ft²)	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	ft³/min	325 / 261 / 198	339 / 286 / 198
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 × 1	30 × 1
Sound Pressure Level		H / M / L	dB(A)	36 / 33 / 27	40 / 35 / 27
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices			-	Fuse	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. × mm²	4C × 0.75	4C × 0.75

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

• * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNQ18GSKC0	AMNQ24GSKC0
Power Supply			V, Ø, Hz	220-240,1, 50	220-240,1, 50
Power Input	Min./Nom./Max.		W	24 / 40 / 60	27 / 45 / 60
Running Current	Min./Nom./Max.		A	0.20 / 0.28 / 0.40	0.24 / 0.33 / 0.40
Casing Color			-	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)
Dimensions	Body	W × H × D	mm	975 × 354 × 209	975 × 354 × 209
		W × H × D	inch	38-3/8 × 13-15/16 × 8-7/32	38-3/8 × 13-15/16 × 8-7/32
	Shipping	W × H × D	mm	1,063 × 420 × 274	1,063 × 420 × 274
		W × H × D	inch	41-27/32 × 16-17/32 × 10-25/32	41-27/32 × 16-17/32 × 10-25/32
Weight	Body		kg (lbs)	11.4 (25.2)	12.2 (26.9)
	Shipping		kg (lbs)	13.2 (29.1)	13.9 (30.7)
Heat Exchanger	(Row × Column × Fins per inch)×No.		-	(2 × 16 × 20) × 1	(2 × 16 × 20) × 1
	Face Area		m² (ft²)	0.24 (2.58)	0.24 (2.58)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m^3/min	15.8 / 12.4 / 10.0	16.9 / 12.8 / 10.4
		H / M / L	ft³/min	557 / 437 / 353	596 / 452 / 367
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 × 1	60 × 1
Sound Pressure Level		H / M / L	dB(A)	44 / 38 / 34	46 / 41 / 36
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	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. × mm²	4C × 0.75	4C × 0.75

Note

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2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

• * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

■ Cooling Only (Standard)

Model Name				AMNQ09GSJA0	AMNQ12GSJA0
Power Supply			V, Ø, Hz	220-240,1, 50/60	220-240,1, 50/60
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)	Munsell 7.5BG 10/2 (RAL 9016)
Dimensions	Body	W × H × D	mm	837 × 308 × 189	837 × 308 × 189
		W × H × 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 × H × D	mm	892 × 381 × 249	892 × 381 × 249
		W × H × D	inch	35-1/8 × 15 × 9-13/16	35-1/8 × 15 × 9-13/16
Weight	Body		kg (lbs)	8.8 (19.4)	8.8 (19.4)
	Shipping		kg (lbs)	10.1 (22.3)	10.1 (22.3)
Heat Exchanger	(Row × Column × Fins per inch)×No.		-	(2 x 15 x 21) x 1	(2 x 15 x 21) x 1
	Face Area		m² (ft²)	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	ft³/min	325 / 261 / 198	339 / 286 / 198
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 × 1	30 × 1
Sound Pressure Level		H / M / L	dB(A)	36 / 33 / 27	40 / 35 / 27
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices			-	Fuse	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. × mm²	4C × 0.75	4C × 0.75

Note

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2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

• * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNQ18GSKA0	AMNQ24GSKA0
Power Supply			V, Ø, Hz	220-240,1, 50/60	220-240,1, 50/60
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)	Munsell 7.5BG 10/2 (RAL 9016)
Dimensions	Body	W × H × D	mm	998 × 345 × 210	998 × 345 × 210
		W × H × D	inch	39-9/32 × 13-19/32 × 8-9/32	39-9/32 × 13-19/32 × 8-9/32
	Shipping	W × H × D	mm	1,063 × 420 × 274	1,063 × 420 × 274
		W × H × D	inch	41-27/32 × 16-17/32 × 10-25/32	41-27/32 × 16-17/32 × 10-25/32
Weight	Body		kg (lbs)	11.3 (24.9)	12.0 (26.5)
	Shipping		kg (lbs)	13.1 (28.9)	13.8 (30.4)
Heat Exchanger	(Row × Column × Fins per inch)×No.		-	(2 × 16 × 20)×1	(2 × 16 × 20)×1
	Face Area		m² (ft²)	0.24 (2.58)	0.24 (2.58)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m^3/min	15.8 / 12.4 / 10.0	16.9 / 12.8 / 10.4
		H / M / L	ft³/min	558 / 438 / 353	597 / 452 / 367
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 × 1	60 × 1
Sound Pressure Level		H / M / L	dB(A)	44 / 38 / 34	46 / 41 / 36
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	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. × mm²	4C × 0.75	4C × 0.75

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

• * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

■ Heat Pump (Standard Plus)

Model Name				AMNW09GSJB0	AMNW12GSJB0
Power Supply			V, Ø, Hz	220-240,1, 50/60	220-240,1, 50/60
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)	Munsell 7.5BG 10/2 (RAL 9016)
Dimensions	Body	W × H × D	mm	837 × 308 × 189	837 × 308 × 189
		W × H × 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 × H × D	mm	892 × 381 × 249	892 × 381 × 249
		W × H × D	inch	35-1/8 × 15 × 9-13/16	35-1/8 × 15 × 9-13/16
Weight	Body		kg (lbs)	8.9 (19.6)	8.9 (19.6)
	Shipping		kg (lbs)	10.2 (22.5)	10.2 (22.5)
Heat Exchanger	(Row × Column × Fins per inch)×No.		-	(2 x 15 x 21) x 1	(2 x 15 x 21) x 1
	Face Area		m² (ft²)	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	ft³/min	325 / 261 / 198	339 / 286 / 198
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 × 1	30 × 1
Sound Pressure Level		H / M / L	dB(A)	36 / 33 / 27	40 / 35 / 27
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices			-	Fuse	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. × mm²	4C × 0.75	4C × 0.75

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

• * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNW15GSJB0
Power Supply			V, Ø, Hz	220-240,1, 50/60
Power Input	Min./Nom./Max.		W	12 / 21 / 30
Running Current	Min./Nom./Max.		A	0.12 / 0.18 / 0.20
Casing Color			-	Munsell 7.5BG 10/2 (RAL 9016)
Dimensions	Body	W × H × D	mm	837 × 308 × 189
		W × H × D	inch	32-15/16 x 12-1/8 x 7-7/16
	Shipping	W × H × D	mm	892 × 381 × 249
		W × H × D	inch	35-1/8 × 15 × 9-13/16
Weight	Body		kg (lbs)	8.9 (19.6)
	Shipping		kg (lbs)	10.2 (22.5)
Heat Exchanger	(Row × Column × Fins per inch)×No.		-	(2 x 15 x 21) x 1
	Face Area		m² (ft²)	0.19 (2.05)
Fan	Type		-	Cross Flow Fan
	Air Flow Rate	H / M / L	m^3/min	10.0 / 8.5 / 6.1
		H / M / L	ft³/min	353 / 300 / 215
Fan Motor	Type		-	BLDC
	Output		W x No.	30 × 1
Sound Pressure Level		H / M / L	dB(A)	41 / 36 / 29
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. × mm²	4C × 0.75

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

- * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNW18GSKB0	AMNW24GSKB0
Power Supply			V, Ø, Hz	220-240,1, 50/60	220-240,1, 50/60
Power Input	Min./Nom./Max.		W	24 / 40 / 60	27 / 45 / 60
Running Current	Min./Nom./Max.		A	0.20 / 0.28 / 0.40	0.24 / 0.33 / 0.40
Casing Color			-	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)
Dimensions	Body	W × H × D	mm	998 × 345 × 210	998 × 345 × 210
		W × H × D	inch	39-9/32 × 13-19/32 × 8-9/32	39-9/32 × 13-19/32 × 8-9/32
	Shipping	W × H × D	mm	1,063 × 420 × 274	1,063 × 420 × 274
		W × H × D	inch	41-27/32 × 16-17/32 × 10-25/32	41-27/32 × 16-17/32 × 10-25/32
Weight	Body		kg (lbs)	11.4 (25.1)	12.1 (26.7)
	Shipping		kg (lbs)	13.2 (29.1)	13.9 (30.6)
Heat Exchanger	(Row × Column × Fins per inch)×No.		-	(2 × 16 × 20)×1	(2 × 16 × 20)×1
	Face Area		m² (ft²)	0.24 (2.58)	0.24 (2.58)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m^3/min	15.8 / 12.4 / 10.0	16.9 / 12.8 / 10.4
		H / M / L	ft³/min	558 / 438 / 353	597 / 452 / 367
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 × 1	60 × 1
Sound Pressure Level		H / M / L	dB(A)	44 / 38 / 34	46 / 41 / 36
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	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. × mm²	4C × 0.75	4C × 0.75

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

• * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNW12GSJC0	AMNW18GSKC0
Power Supply			V, Ø, Hz	220-240,1, 50	220-240,1, 50
Power Input	Min./Nom./Max.		W	11 / 19 / 30	26 / 39 / 60
Running Current	Min./Nom./Max.		A	0.10 / 0.17 / 0.20	0.22 / 0.28 / 0.40
Casing Color			-	Munsell 7.5BG 10/2 (RAL 9016)	Munsell 7.5BG 10/2 (RAL 9016)
Dimensions	Body	W × H × D	mm	818 × 316 × 189	975 x 354 x 209
		W × H × D	inch	32-7/32 x 12-7/16 x 7-7/16	38-3/8 x 13-15/16 x 8-7/32
	Shipping	W × H × D	mm	892 × 381 × 249	1,063 x 420 x 274
		W × H × D	inch	35-1/8 × 15 × 9-13/16	41-27/32 x 16-17/32 x 10-25/32
Weight	Body		kg (lbs)	8.2 (18.1)	10.9 (24.0)
	Shipping		kg (lbs)	10.2 (22.5)	13.9 (30.6)
Heat Exchanger	(Row × Column × Fins per inch)×No.		-	(2 x 23 x 22) x 1	(2 x 16 x 20) x 1
	Face Area		m² (ft²)	0.20 (2.15)	0.24 (2.58)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m^3/min	8.0 / 6.6 / 5.5	15.8 / 12.4 / 10.0
		H / M / L	ft³/min	282 / 233 / 177	558 / 438 / 353
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	30 × 1	30 × 1
Sound Pressure Level		H / M / L	dB(A)	38 / 34 / 29	44 / 38 / 34
Sound Power Level		Rated	dB(A)	56	59
Piping Connections	Liquid		mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas		mm(inch)	Ø 9.52 (3/8)	Ø 12.7 (1/2)
	Drain	O.D. / I.D.	mm	Ø 21.5 / 16.0	Ø 21.5 / 16.0
Safety Devices			-	Fuse	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. × mm²	4C × 0.75	4C × 0.75

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

• * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNW24GSKC0
Power Supply			V, Ø, Hz	220-240,1, 50
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 × H × D	mm	975 x 354 x 209
		W × H × D	inch	38-3/8 x 13-15/16 x 8-7/32
	Shipping	W × H × D	mm	1,063 x 420 x 274
		W × H × D	inch	41-27/32 x 16-17/32 x 10-25/32
Weight	Body		kg (lbs)	11.5 (25.4)
	Shipping		kg (lbs)	14.5 (32.0)
Heat Exchanger	(Row × Column × Fins per inch)×No.		-	(2 x 16 x 20) x 1
	Face Area		m² (ft²)	0.24 (2.58)
Fan	Type		-	Cross Flow Fan
	Air Flow Rate	H / M / L	m^3/min	16.9 / 12.8 / 10.4
		H / M / L	ft³/min	597 / 452 / 367
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		Rated	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. × mm²	4C × 0.75

Note

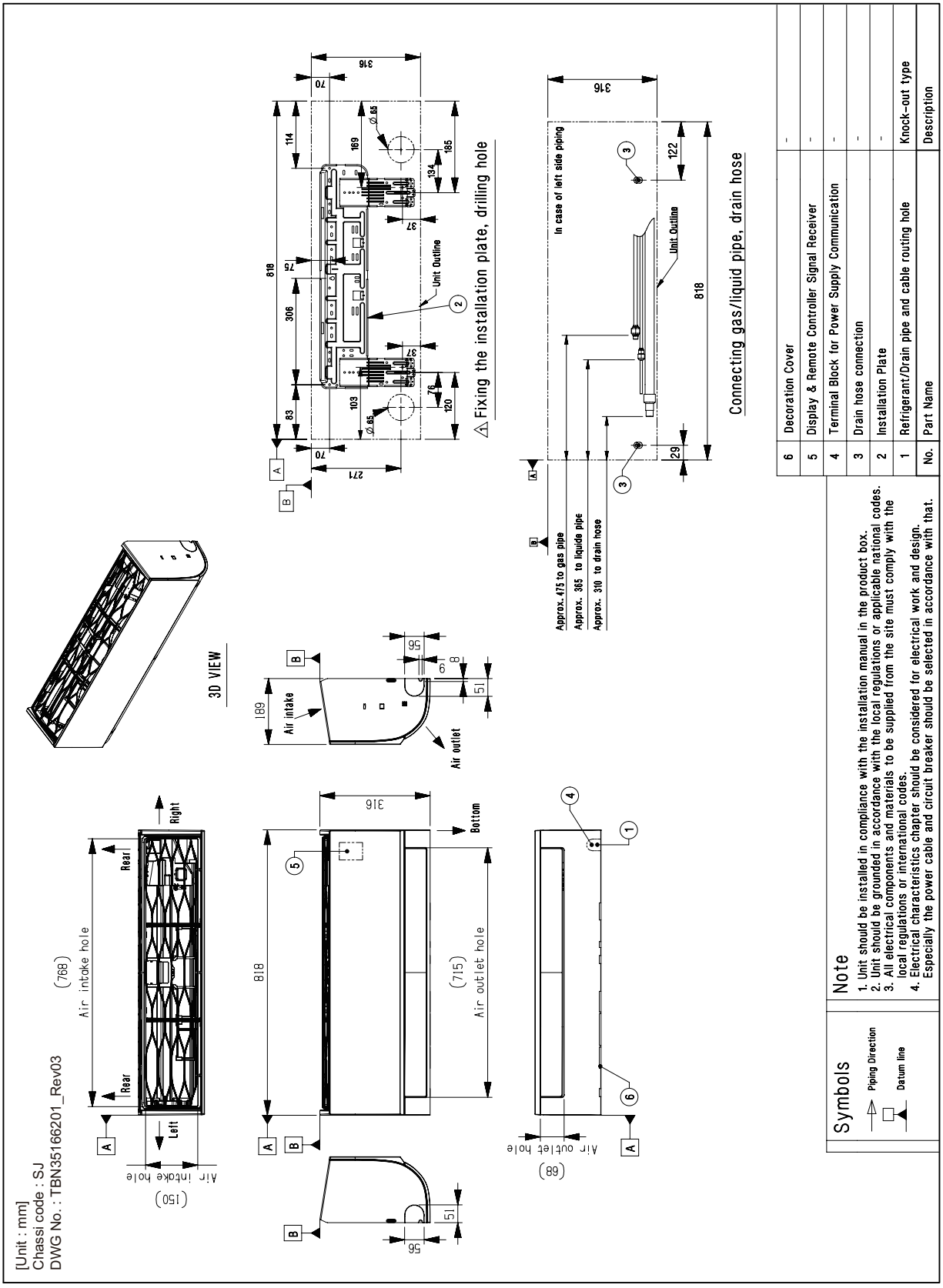
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

- * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

3. Dimensions

◆ SJ Chassis

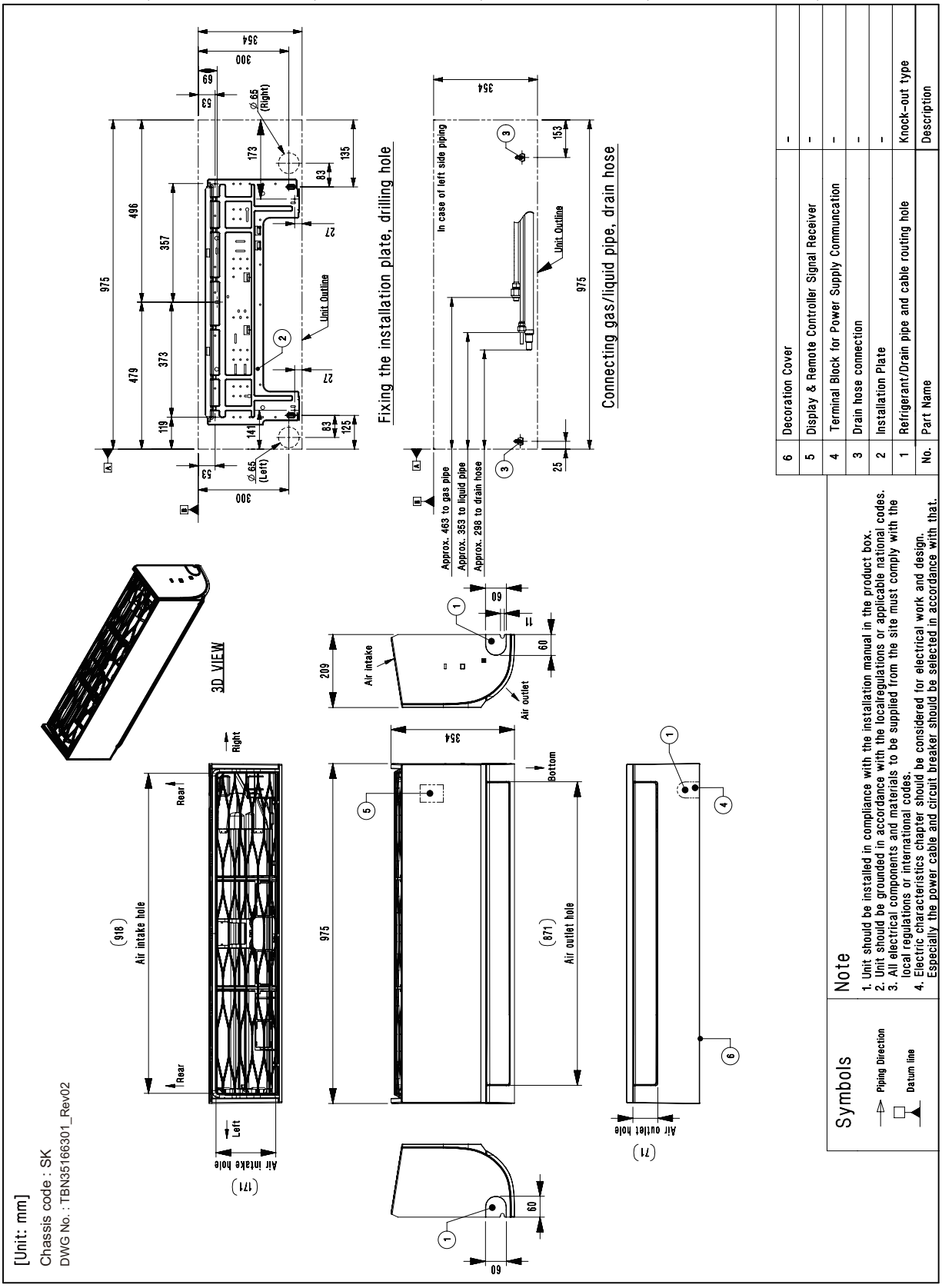
AMNC09GDJA0, AMNC12GDJA0, AMNQ09GSJC0, AMNQ12GSJC0, AMNW12GSJC0



3. Dimensions

◆ SK Chassis

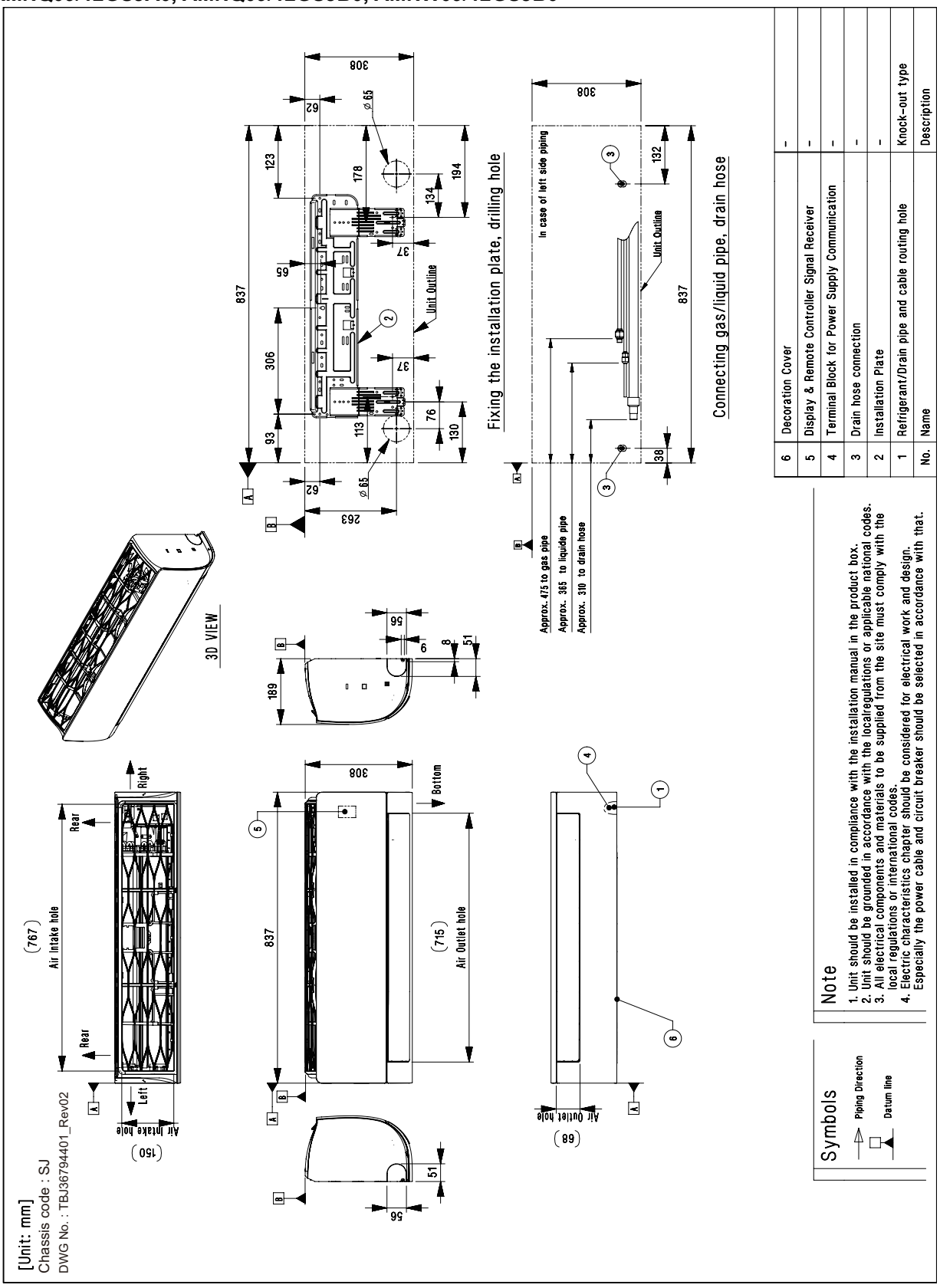
AMNC18GDKA0, AMNC24GDKA0, AMNQ18GSKC0, AMNQ24GSKC0, AMNW18GSKC0, AMNW24GSKC0



3. Dimensions

◆ SJ Chassis

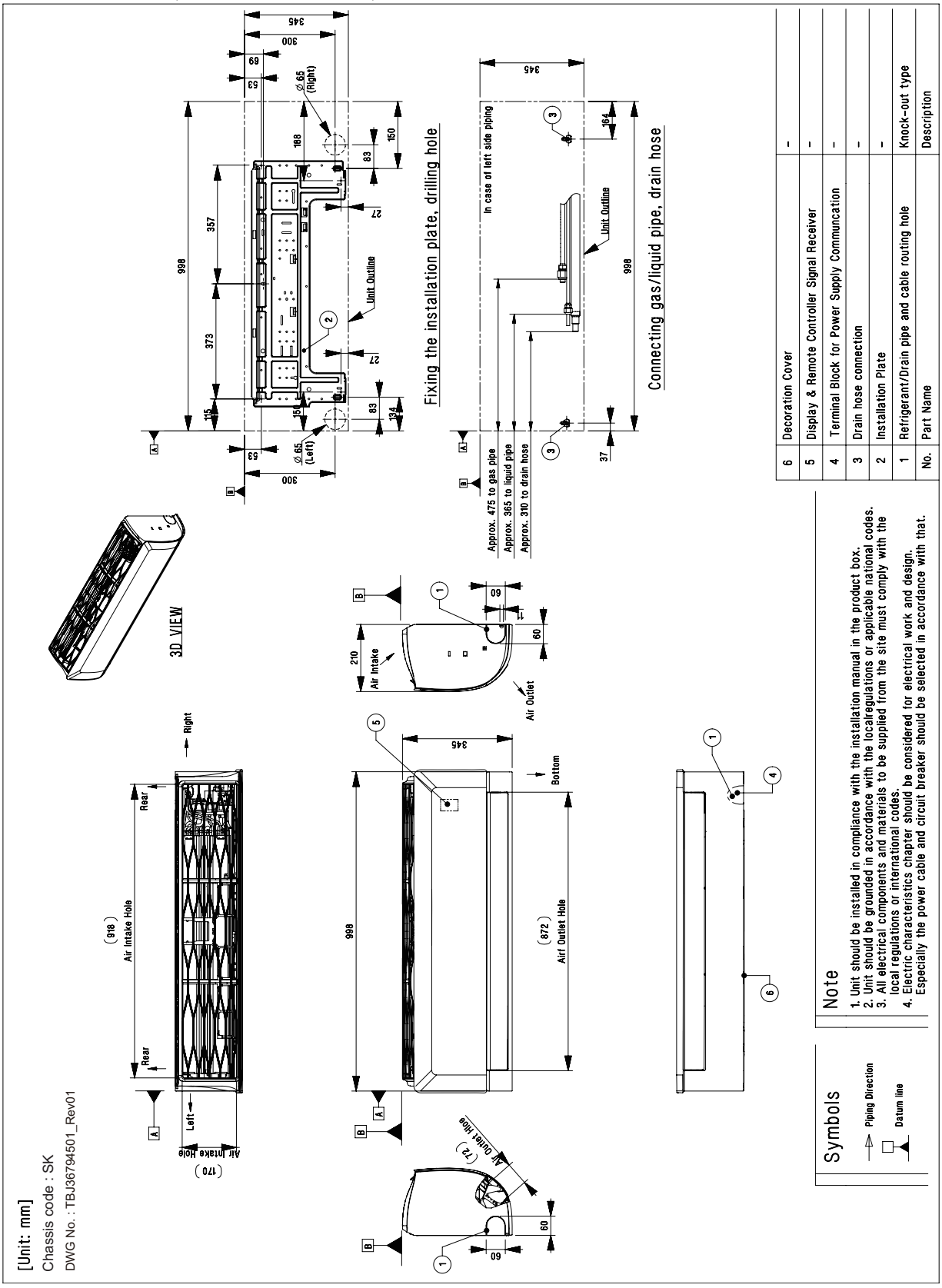
AMNQ09/12GSJA0, AMNQ09/12GSJB0, AMNW09/12GSJB0



3. Dimensions

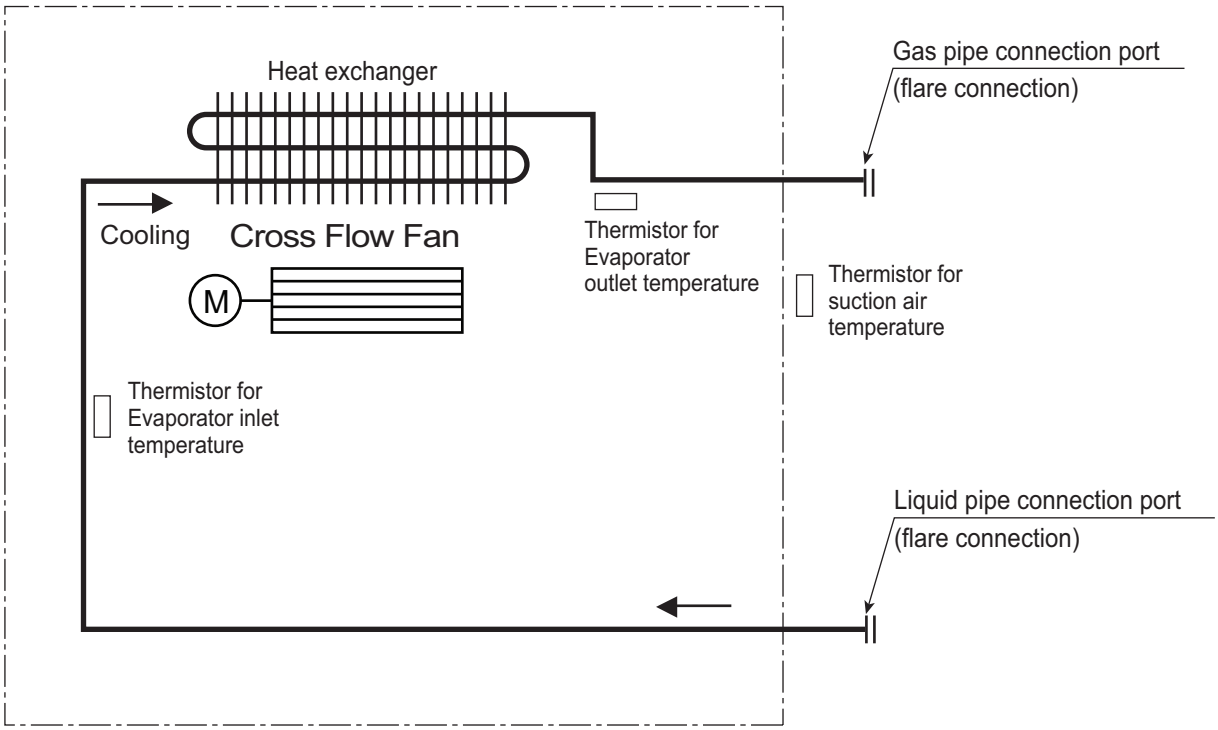
◆ SK Chassis

AMNQ18/24GSKA0, AMNQ18/24GSKB0, AMNW18/24GSKB0



4. Piping diagrams

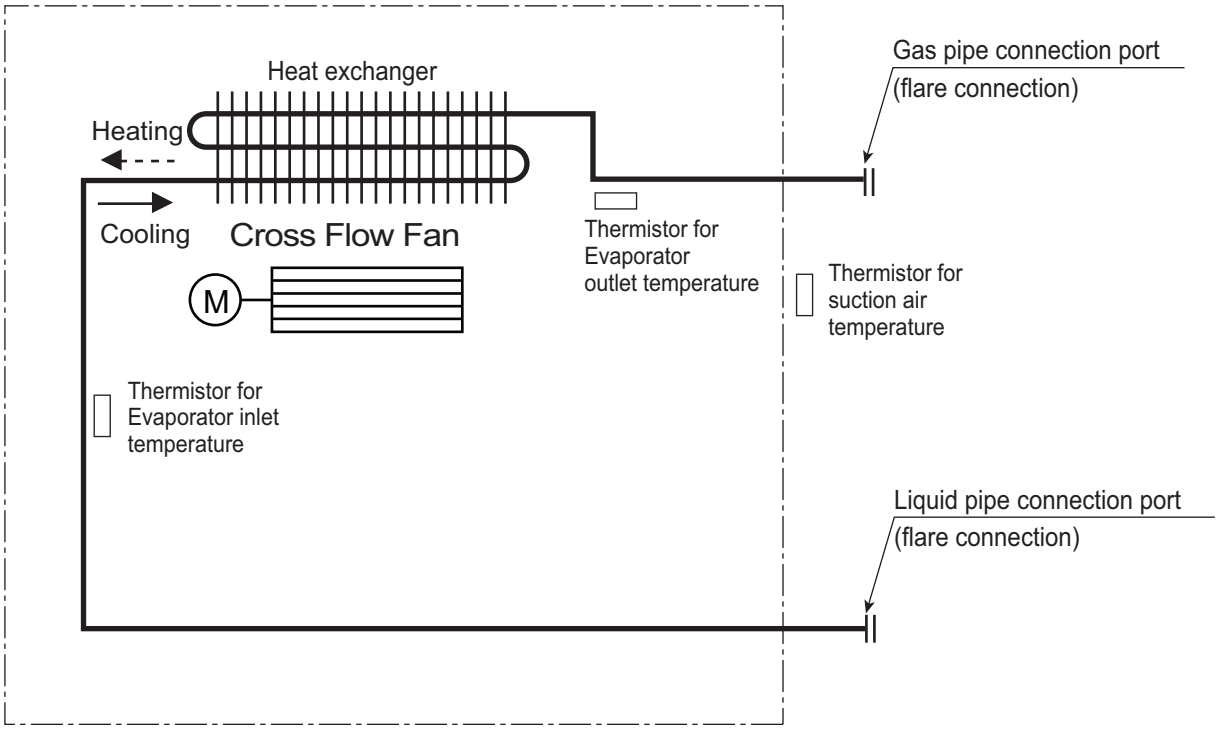
■ Cooling Only



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

4. Piping diagrams

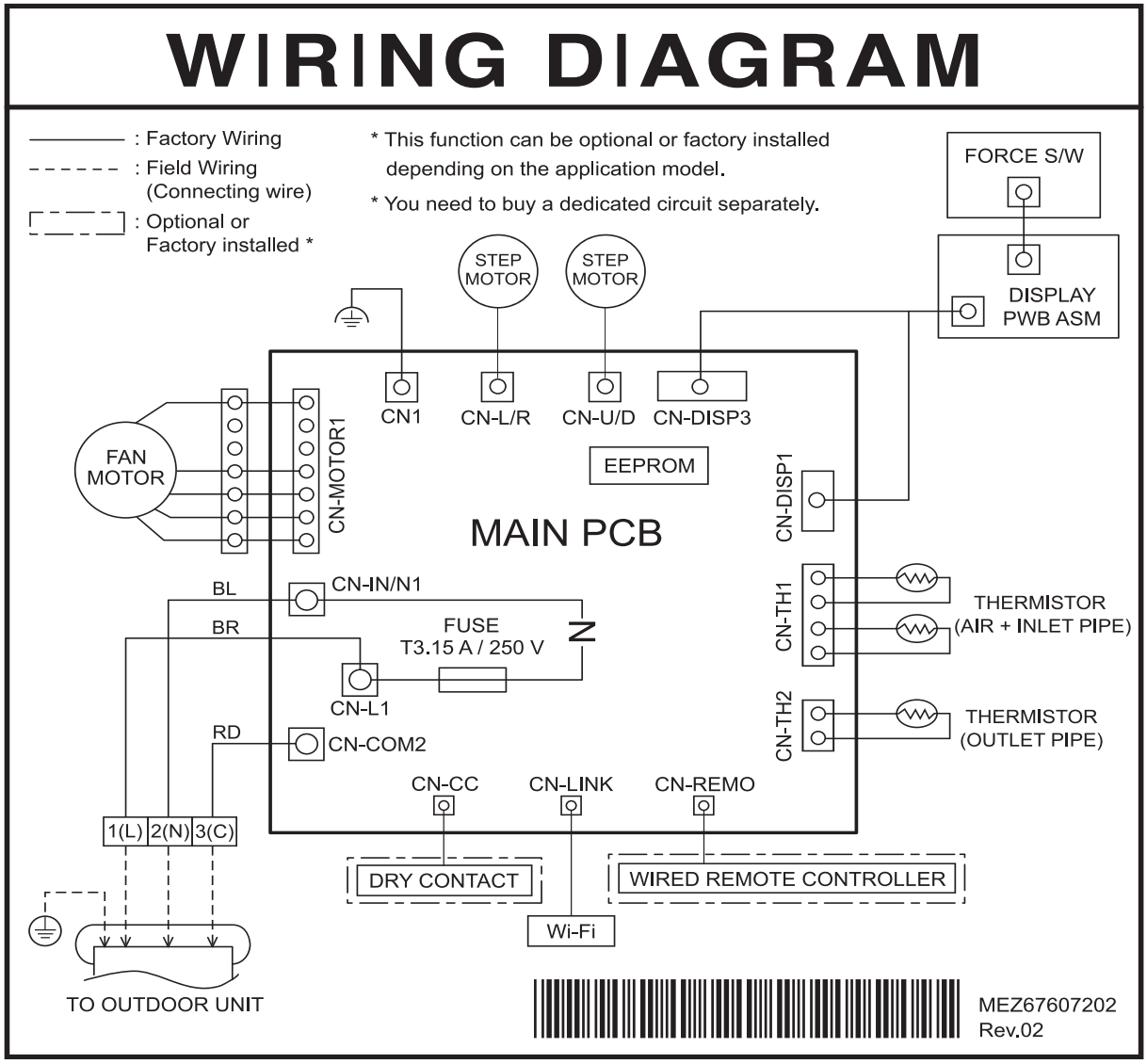
■ Heat Pump



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

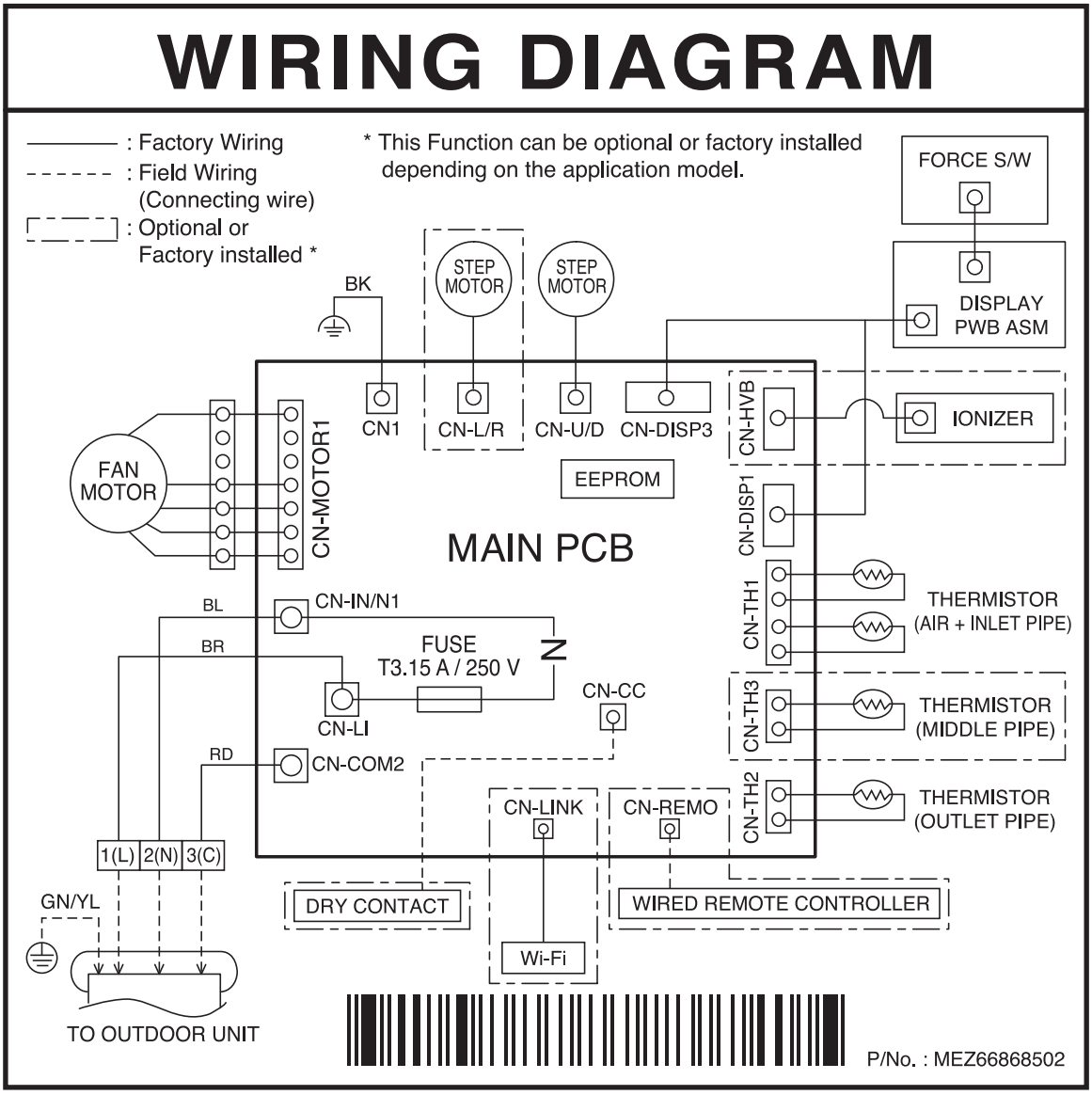
5. Wiring Diagrams

■ Models : Cooling Only (Standard plus), AMNW09/12/15GSJB0, AMNW18/24GSKB0



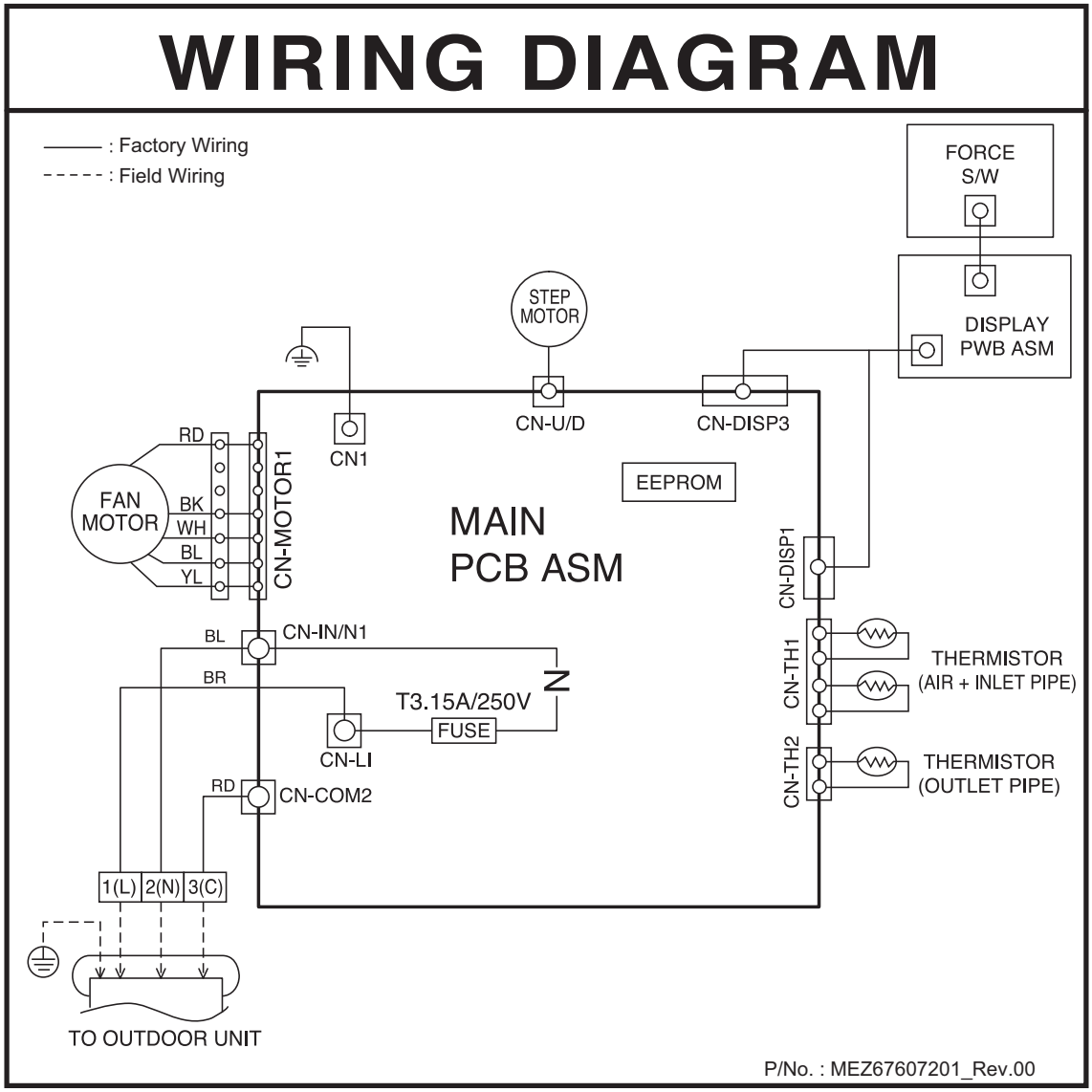
5. Wiring Diagrams

■ Models : AMNW12GSJC0 / AMNW18GSKC0 / AMNW24GSKC0



5. Wiring Diagrams

■ Models : Standard



6. Air flow and temperature distributions (reference data)

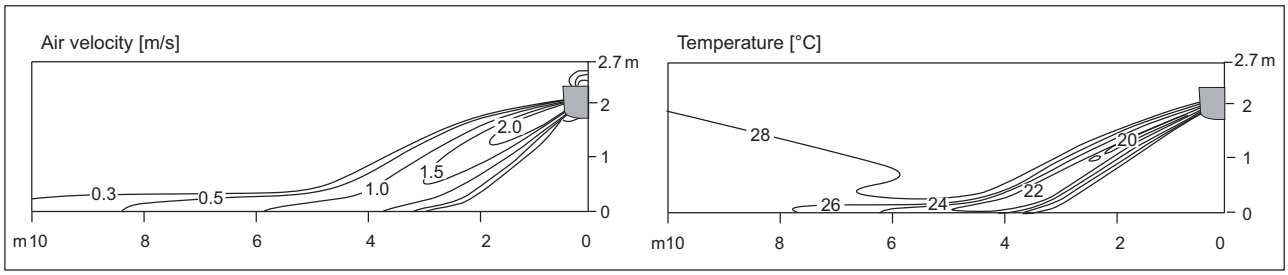
6.1 Cooling Only

■ Models : AMNC09/12GDJA0

◆ Cooling

Side View

Discharge angle: 35°



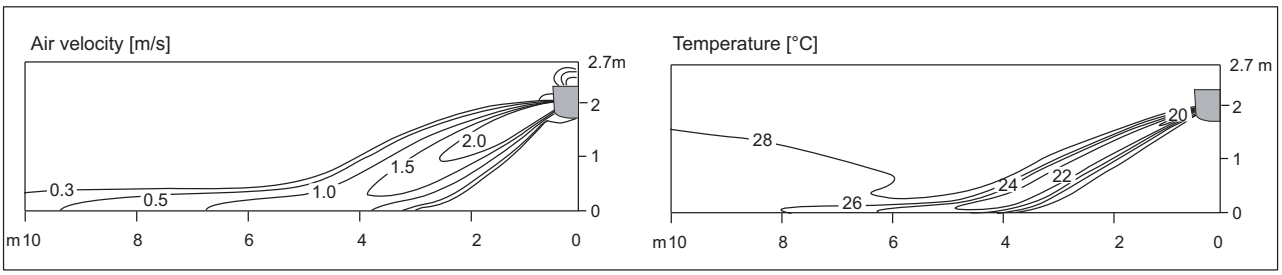
- Vertical Louver : Center
- Fan speed : Power

■ Models : AMNQ09/12GSJA0, AMNQ09/12GSJB0, AMNQ09/12GSJC0

◆ Cooling

Side View

Discharge angle: 35°



- Vertical Louver : Center
- Fan speed : Power

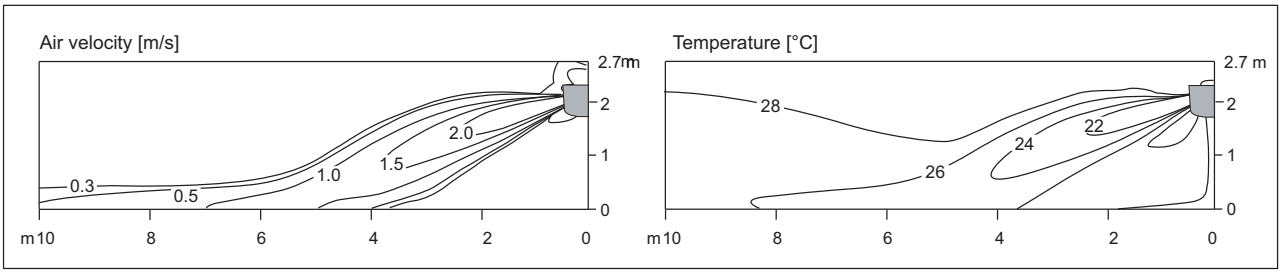
6. Air flow and temperature distributions (reference data)

■ Models : AMNC18GDKA0, AMNQ18GSKA0, AMNQ18GSKB0, AMNQ18GSKC0

◆ Cooling

Side View

Discharge angle: 25°



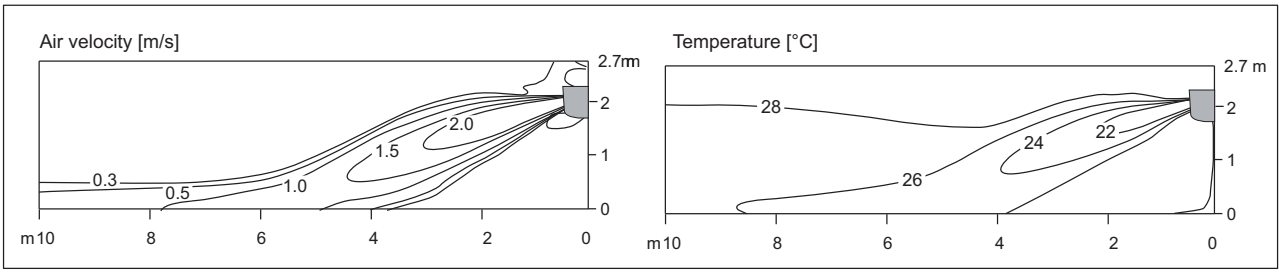
- Vertical Louver : Center
- Fan speed : Power

■ Models : AMNC24GDKA0, AMNQ24GSKA0, AMNQ24GSKB0, AMNQ24GSKC0

◆ Cooling

Side View

Discharge angle: 25°



- Vertical Louver : Center
- Fan speed : Power

6. Air flow and temperature distributions (reference data)

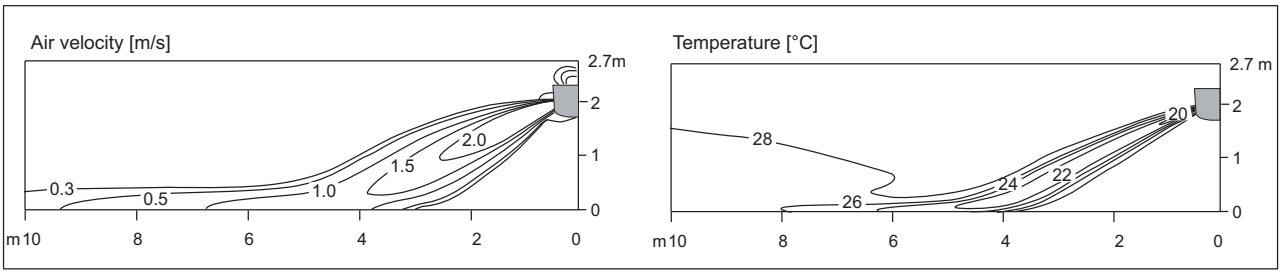
6.2 Heat Pump

■ Models : AMNW09/12/15GSJB0

◆ Cooling

Side View

Discharge angle: 35°

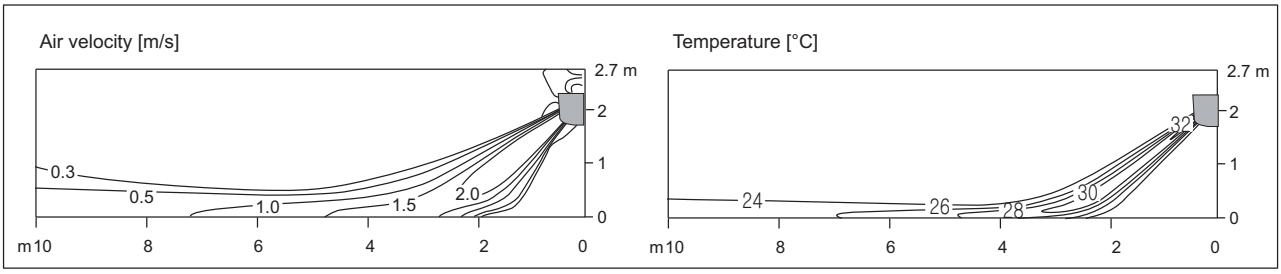


- Vertical Louver : Center
- Fan speed : Power

◆ Heating

Side View

Discharge angle: 55°



- Vertical Louver : Center
- Fan speed : Power

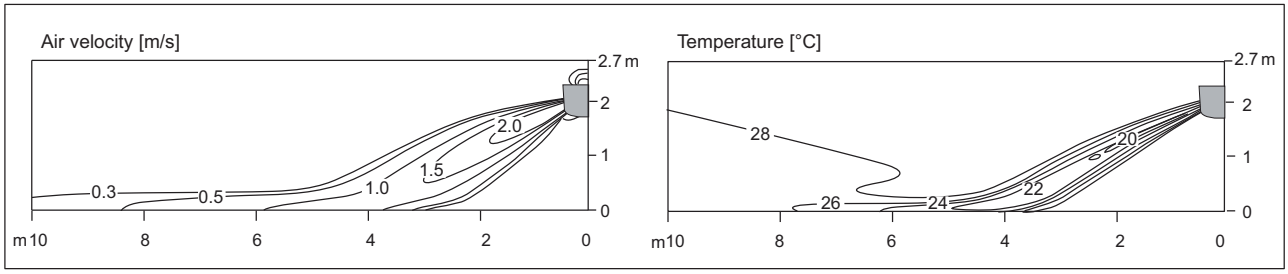
6. Air flow and temperature distributions (reference data)

■ Models : AMNW12GSJC0

◆ Cooling

Side View

Discharge angle: 35°

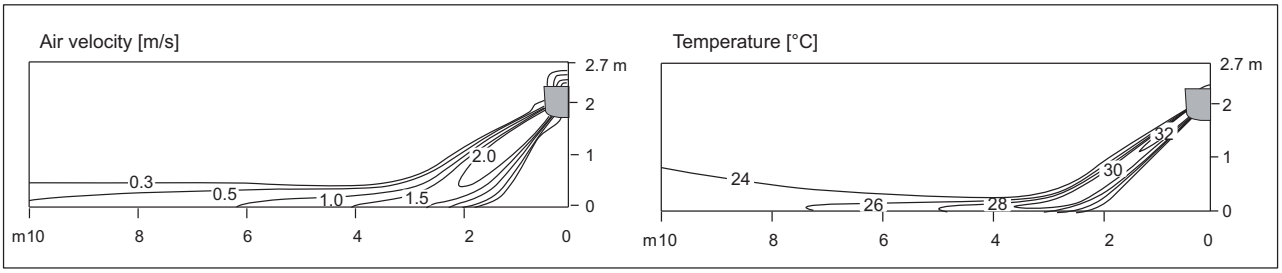


- Vertical Louver : Center
- Fan speed : Power

◆ Heating

Side View

Discharge angle: 55°



- Vertical Louver : Center
- Fan speed : Power

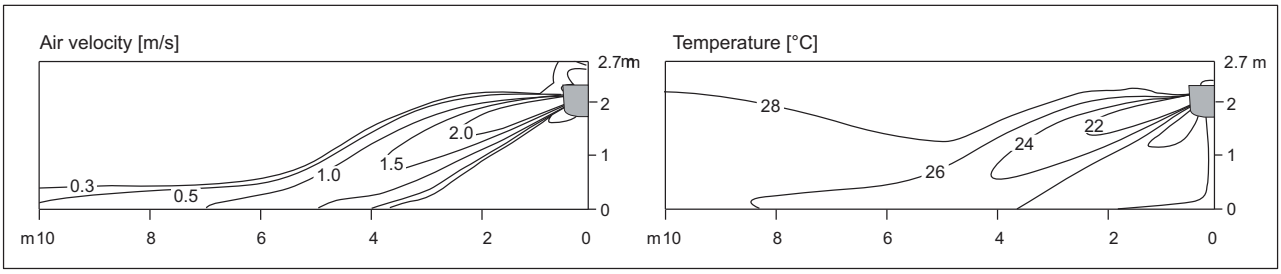
6. Air flow and temperature distributions (reference data)

■ Models : AMNW18GSKB0 / AMNW18GSKC0

◆ Cooling

Side View

Discharge angle: 25°

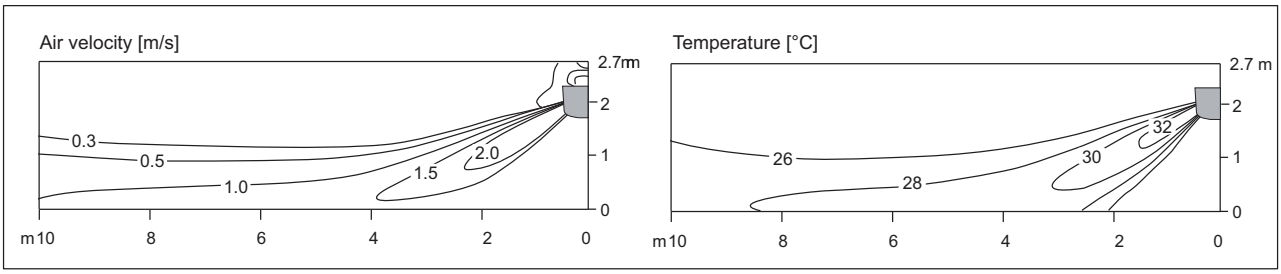


- Vertical Louver : Center
- Fan speed : Power

◆ Heating

Side View

Discharge angle: 45°



- Vertical Louver : Center
- Fan speed : Power

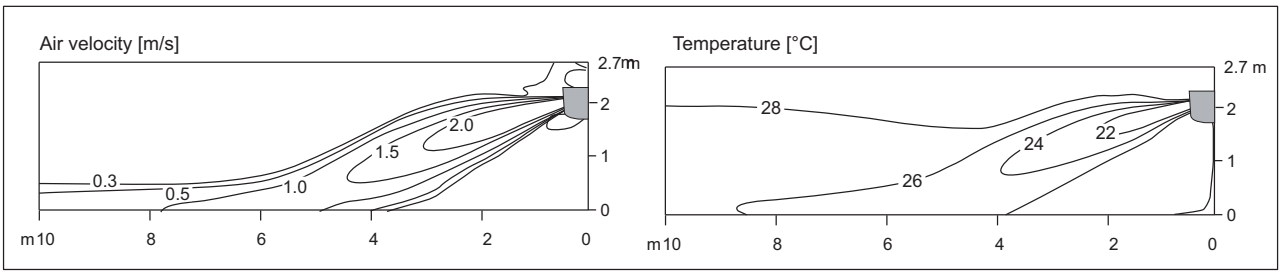
6. Air flow and temperature distributions (reference data)

■ Models : AMNW24GSKB0 / AMNW24GSKC0

◆ Cooling

Side View

Discharge angle: 25°

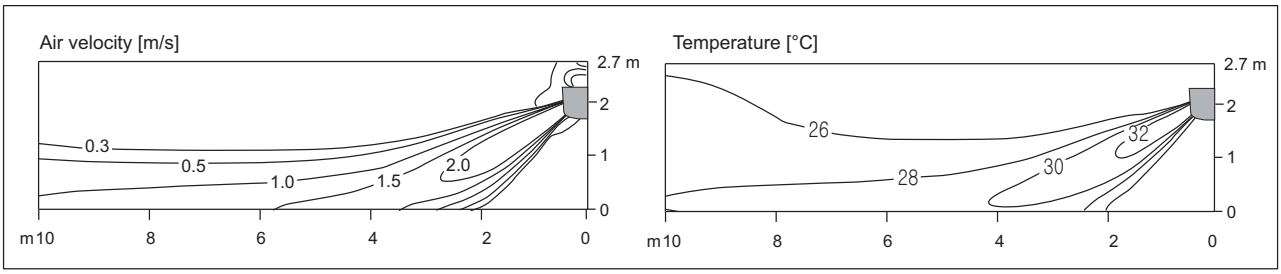


- Vertical Louver : Center
- Fan speed : Power

◆ Heating

Side View

Discharge angle: 45°

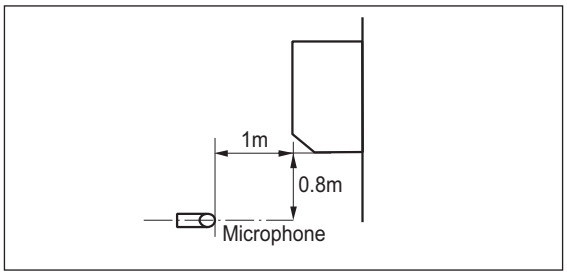


- Vertical Louver : Center
- Fan speed : Power

7. Sound levels

7.1 Sound pressure level

■ Overall



Note

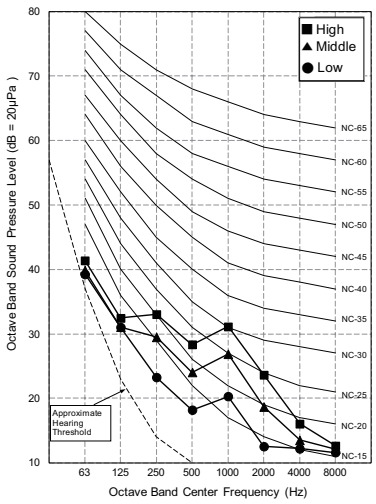
1. Sound measured at some distance away from the center of the unit.
2. Data is valid at free field condition.
3. Reference accoustic pressure 0dB = 20μPa.
4. Data is valid at nominal operation condition.
   Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature,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

Model	Sound pressure Levels [dB(A)]		
	H	M	L
AMNC09GDJA0	36	32	27
AMNC12GDJA0 / AMNW12GSJC0	38	34	29
AMNC18GDKA0 / AMNW18GSKC0	44	38	34
AMNC24GDKA0 / AMNW24GSKC0	46	41	36

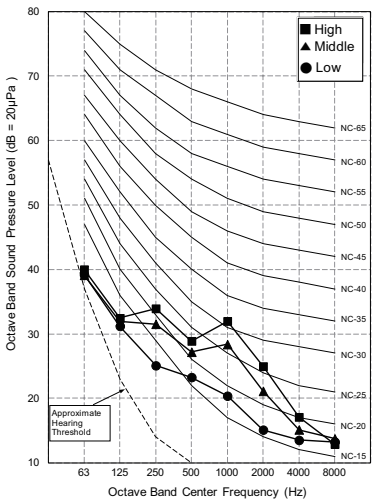
Model	Sound pressure Levels [dB(A)]		
	H	M	L
AMNQ09GSJA0 / AMNQ09GSJB0 / AMNW09GSJB0 / AMNQ09GSJC0	36	33	27
AMNQ12GSJA0 / AMNQ12GSJB0 / AMNW12GSJB0 / AMNQ12GSJC0	40	35	27
AMNW15GSJB0	41	36	29
AMNQ18GSKA0 / AMNQ18GSKB0 / AMNW18GSKB0 / AMNQ18GSKC0	44	38	34
AMNQ24GSKA0 / AMNQ24GSKB0 / AMNW24GSKB0/ AMNQ24GSKC0	46	41	36

7. Sound levels

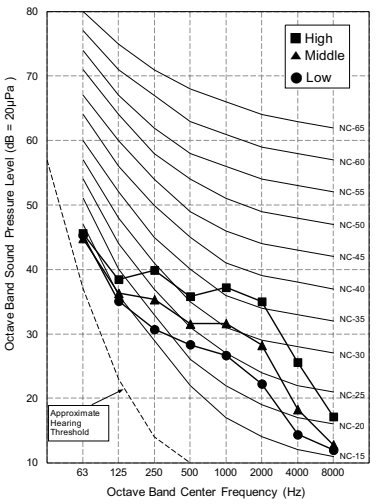
AMNC09GDJA0



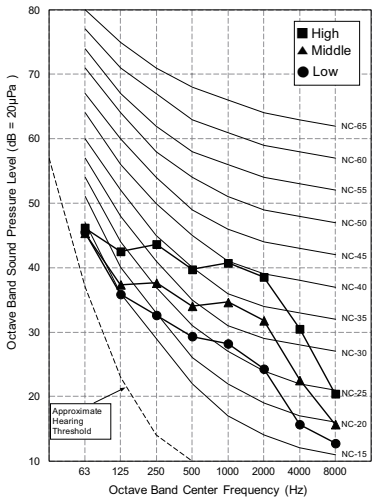
AMNC12GDJA0 / AMNW12GSJC0



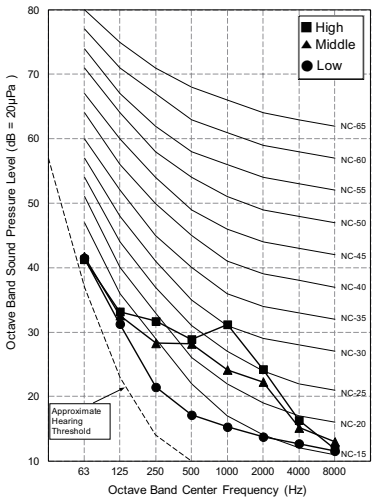
AMNC18GDKA0 / AMMW18GSKC0



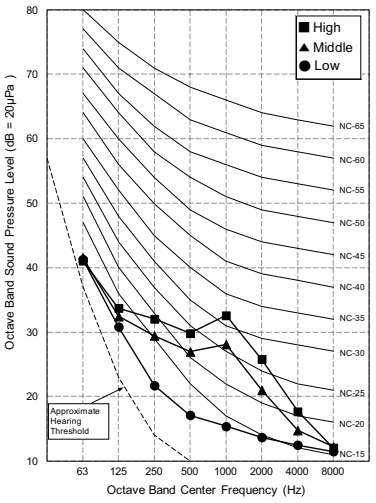
AMNC24GDKA0 / AMNW24GSKC0



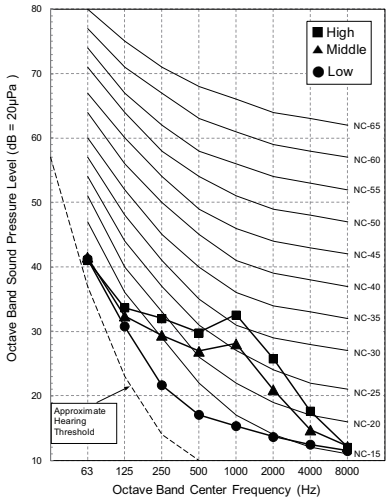
AMNQ09GSJA0 / AMNQ09GSJB0
AMNW09GSJB0 / AMNQ09GSJC0



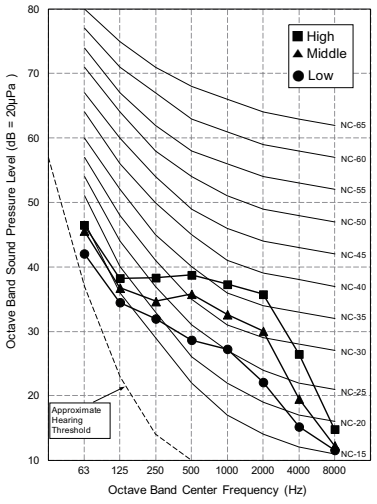
AMNQ12GSJA0 / AMNQ12GSJB0
AMNW12GSJB0 / AMNQ12GSJC0



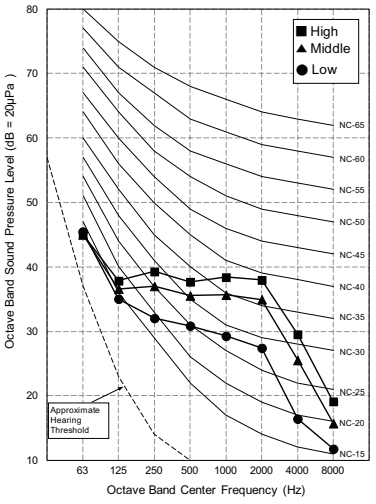
AMNW15GSJB0



AMNQ18GSKA0 / AMNQ18GSKB0
AMNW18GSKB0 / AMNQ18GSKC0



AMNQ24GSKA0 / AMNQ24GSKB0
AMNW24GSKB0 / AMNQ24GSKC0



7. Sound levels

7.2 Sound power level

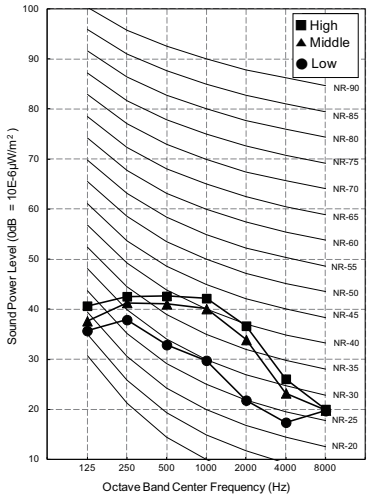
Note

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

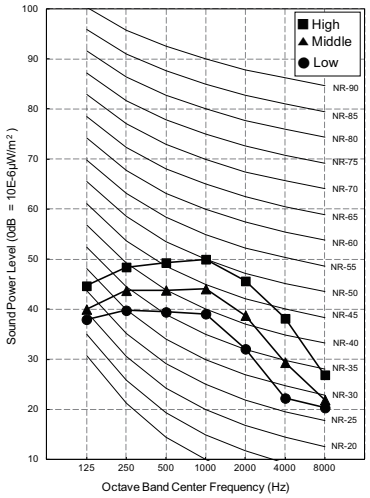
Model	Sound power Levels [dB(A)]
AMNW12GSJC0	56
AMNW18GSKC0	59
AMNW24GSKC0	65

7. Sound levels

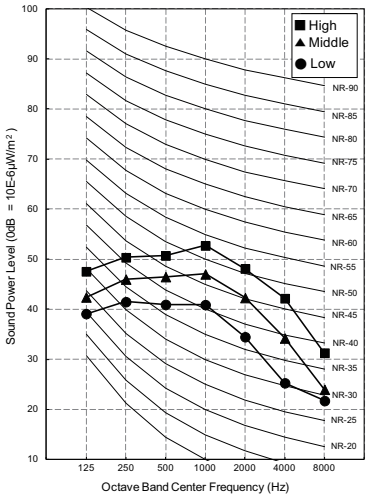
AMNW12GSJC0



AMNW18GSKC0



AMNW24GSKC0



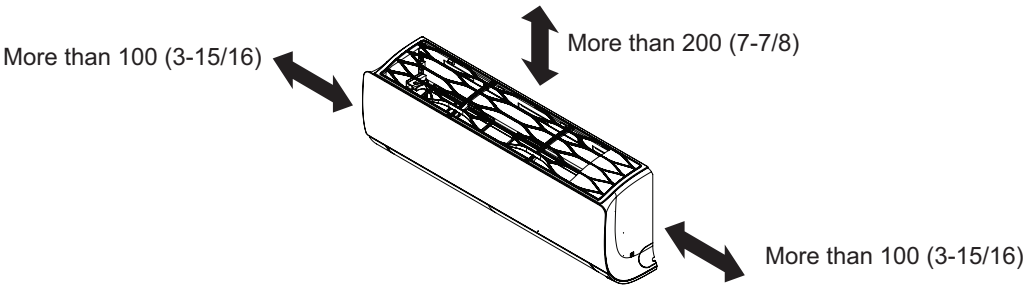
8. Installation

- 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.

[Unit : mm(inch)]



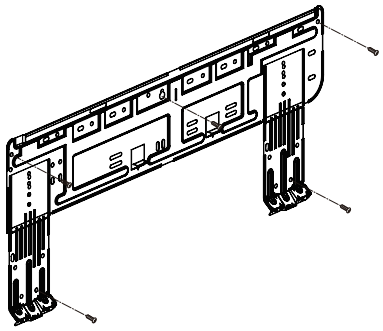
8. Installation

■ Fixing Installation Plate

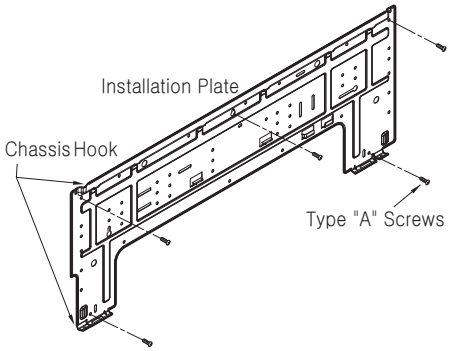
- The wall you select should be strong and solid enough to prevent vibration.

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

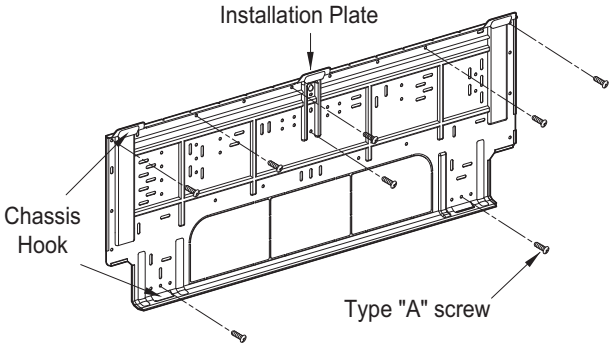


SK Chassis



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

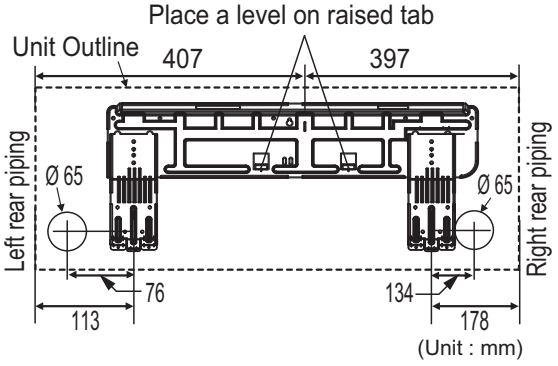
SV Chassis



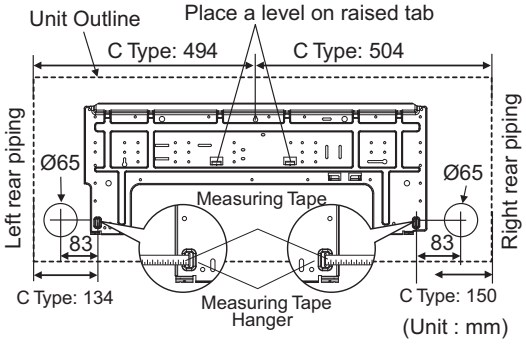
* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

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

SJ chassis



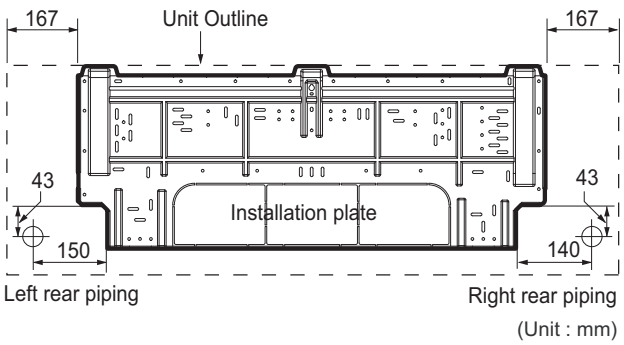
SK chassis



* 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

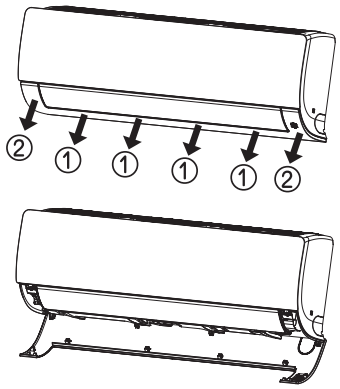
In case that the unit is installed near the sea, the installation parts may be corroded by salt. The installation parts (and the unit) should be taken appropriate anti-corrosion measures.

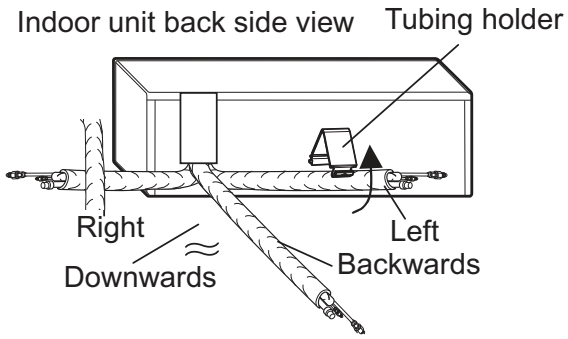
8.2 Connection of pipes and cables

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.





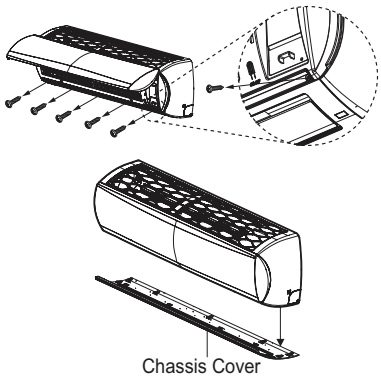
※ The feature can be changed according to type of model.

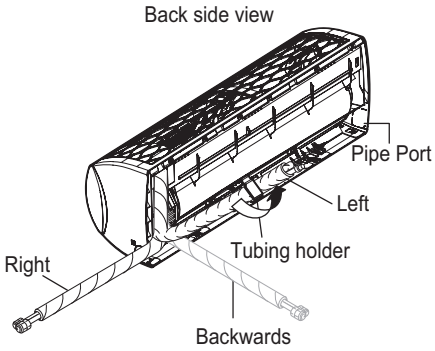
* The feature can be changed according to type of model.
* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

■ SV chassis

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

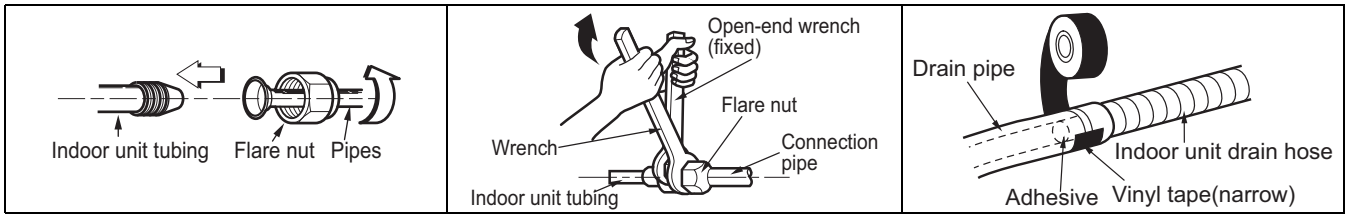
8. Installation





* 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.

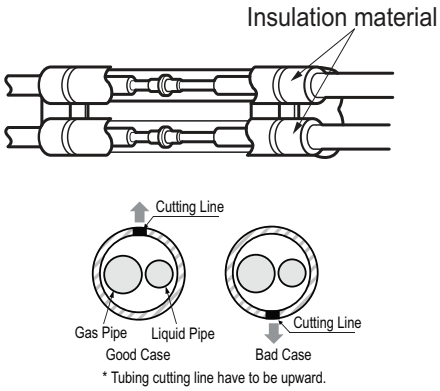
■ Connecting the installation pipe and drain hose

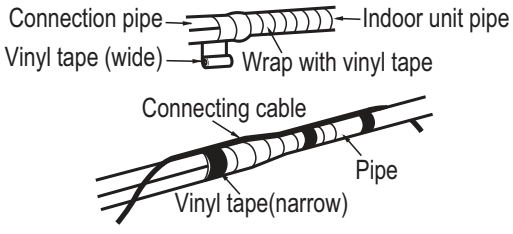


1. Align the center of the pipes and sufficiently tighten the flare nut by hand.
2. Tighten the flare nut with a wrench.
3. When needed to extend the drain hose of indoor unit, assembly the drain pipe as shown on the drawing.

■ 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

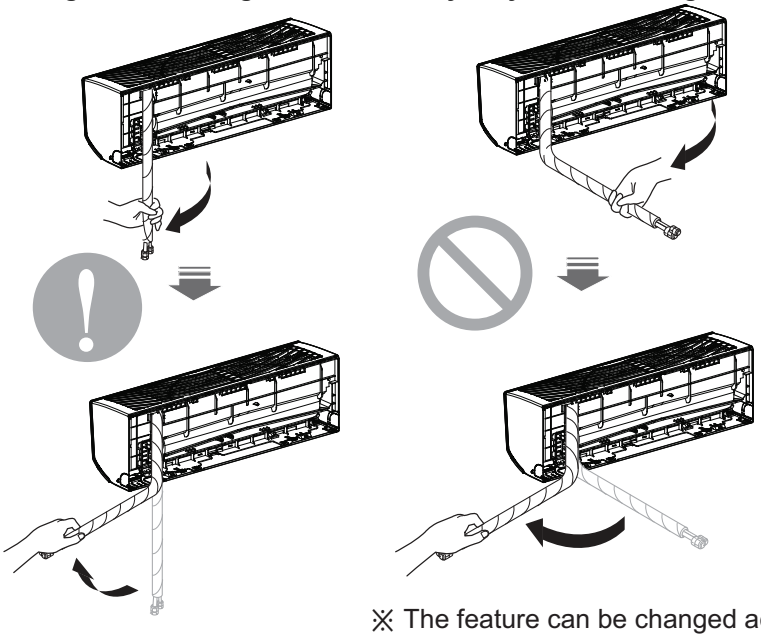
If the drain hose is routed inside the room insulate the hose with an insulation material* so that dripping from sweating condensation) will not damage furniture or floors.

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.**



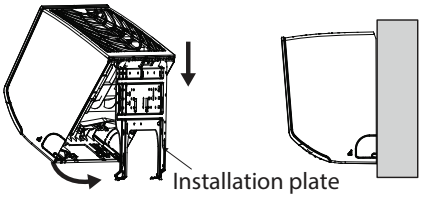
※ The feature can be changed according to type

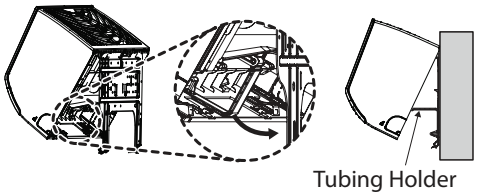
- Installation Information. For right piping. Follow the instruction above.

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 areproperly 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.



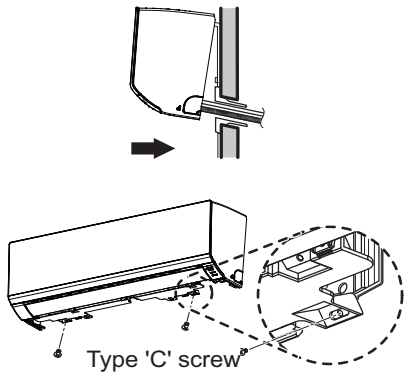


* The feature can be changed according to type of model.

8. Installation

8.2.3 Finishing the indoor unit installation

1. Mount the tubing holder in the original positon.
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) Recovery the chassis cover in Original place. (SV chassis)



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

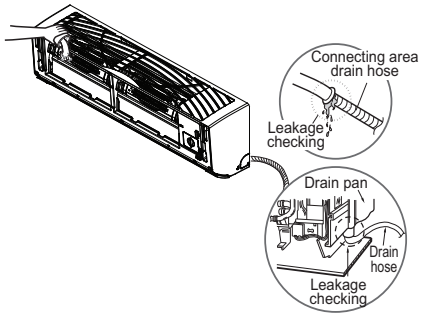
⚠ CAUTION

- **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.

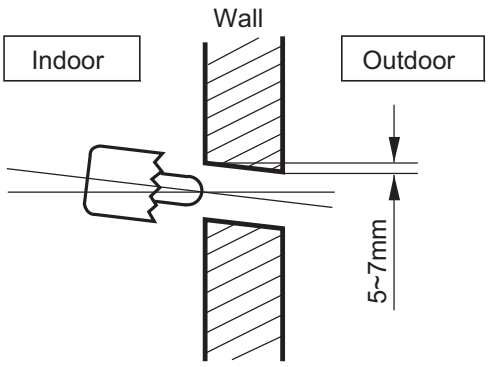


* The feature can be changed according to type of model.

8. Installation

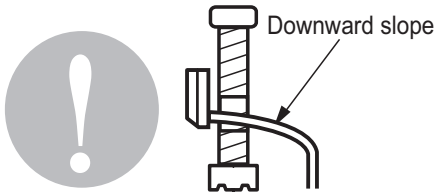
◆ Drill a Hole in the wall

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

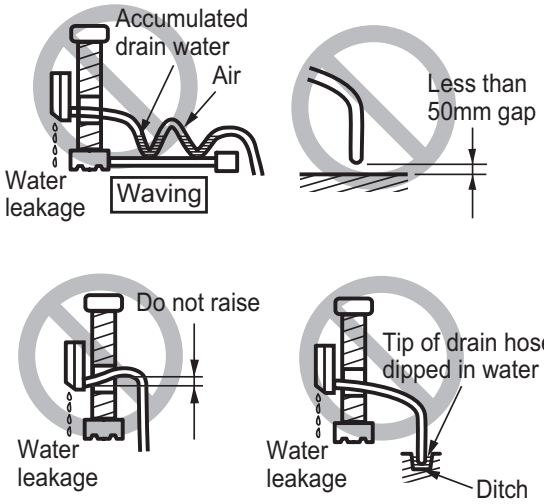


◆ Drain Piping

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:

– 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 ind vidually 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 0.75mm^2 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

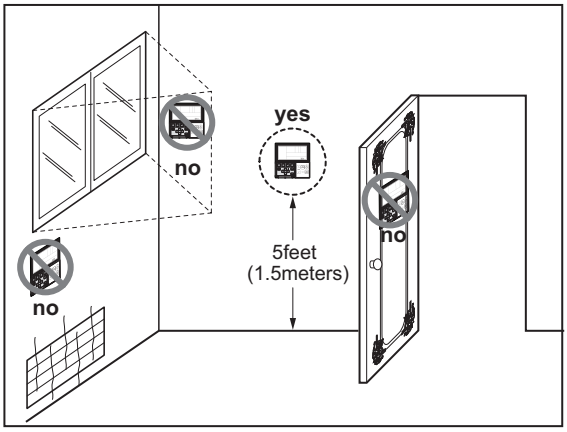
- Make sure that the screws of the terminal are fixed tightly.
- The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened.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

1. List of functions

◆ Basic functions of Indoor Unit

Category	Functions	AMNC09GDJR0, AMNC12GDJR0 AMNC18GDKR0, AMNC24GDKR0
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 / X
	Chaos wind(auto wind)	O
	Jet cool/heat	O / X
	Comfort Air	O
Air purification	Triple filter (Deodorization)	X
	Ionizer	O
	Allergy Safe filter	X
	Pre-Filter	O
Installation	Drain pump	X
	E.S.P. control*	X
	Electric heater	X
	High ceiling operation*	X
Reliability	Hot start	X
	Self diagnosis	O
	Dry Operation	O
Convenience	Auto changeover	X
	Auto cleaning (Coil Dry)	O
	Auto operation(artificial intelligence)	O
	Auto Restart	O
	Child lock*	O
	Forced operation	O
	Group control*	O
	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
Wireless remote controller Supply (included with product)		O (AKB74955615**)
Wired remote controller Supply (included with product)		X
Network Solution(LGAP)		O

Note

1. O : Applied, X : Not applied
   Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
   Accessory line-ups varies by region, so check your local catalogue or local sales material.
2. Some functions can be limited by remote controller.
3. In case of 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

◆ Accessory Compatibility List

Category		Product	Remark	AMNC09GDJR0 AMNC12GDJR0 AMNC18GDKR0 AMNC24GDKR0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	X
		PQWRCQ0FDB	Cooling Only	O
		PWLSSB21H	Heat Pump	X
		PWLSSB21C	Cooling Only	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	X
		PQRCHCA0Q(W)	for Hotel	X
	Standard	PREMTB001	Standard (White)	O
		PREMTBB01	Standard (Black)	O
		PREMTB100**	New Standard (White)	X
	Premium	PREMTA000(A/B)	Premium	X
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	For 3rd Party Thermostat	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O
		PDRYCB500	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	-	O

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				AMNC09GDJR0	AMNC12GDJR0
Power Supply			V, Ø, Hz	220-240,1, 50 /60	220-240,1, 50/60
Power Input	Min./Nom./Max.		W	9 / 18 / 30	9 / 19 / 30
Running Current	Min./Nom./Max.		A	0.12 / 0.16 / 0.20	0.12 / 0.17 / 0.20
Exterior Color code			-	Munsell 7.5PB 0.2/20 (RAL 9005)	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)	9.2 (20.3)	9.2 (20.3)
	Shipping		kg (lbs)	11.2 (24.7)	11.2 (24.7)
Heat Exchanger	(Row×Column×Fins per inch) × No.		-	(2 × 23 × 22) × 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	7.7 / 6.4 / 5.0	8.1 / 6.7 / 5.3
		H / M / L	ft^3/min	272 / 226 / 177	286 / 237 / 187
Fan Motor	Type		-	BLDC	BLDC
	Output		W × No.	30 × 1	30 × 1
Sound Pressure Level		H / M / L	dB(A)	36 / 32 / 27	38 / 34 / 29
Sound Power Level		H / M / L	dB(A)	-	-
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	21.5 / 16.0	21.5 / 16.0
Safety Devices			-	Fuse	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. × mm^2	4C x 0.75	4C x 0.75

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

• * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNC18GDKR0	AMNC24GDKR0
Power Supply			V, Ø, Hz	220-240,1, 50 /60	220-240,1, 50/60
Power Input	Min./Nom./Max.		W	26 / 39 / 60	27 / 45 / 60
Running Current	Min./Nom./Max.		A	0.22 / 0.28 / 0.40	0.24 / 0.33 / 0.40
Exterior Color code			-	Munsell 7.5PB 0.2/20 (RAL 9005)	Munsell 7.5PB 0.2/20 (RAL 9005)
Dimensions	Body	W × H × D	mm	998 x 345 x 212	998 x 345 x 212
		W × H × D	inch	39-9/32 x 13-19/32 x 8-11/32	39-9/32 x 13-19/32 x 8-11/32
	Shipping	W × H × D	mm	1,080 x 422 x 281	1,080 x 422 x 281
		W × H × 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)	12.6 (27.8)	13.2 (29.1)
	Shipping		kg (lbs)	15.9 (35.1)	16.5 (36.4)
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 / 448 / 360
Fan Motor	Type		-	BLDC	BLDC
	Output		W × No.	60×1	60×1
Sound Pressure Level		H / M / L	dB(A)	44 / 38 / 34	46 / 41 / 36
Sound Power Level		H / M / L	dB(A)	-	-
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	21.5 / 16.0	21.5 / 16.0
Safety Devices			-	Fuse	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Connections Method			-	Flared	Flared
Power and Communication Cable (included Earth)			No. × mm^2	4C x 0.75	4C x 0.75

Note

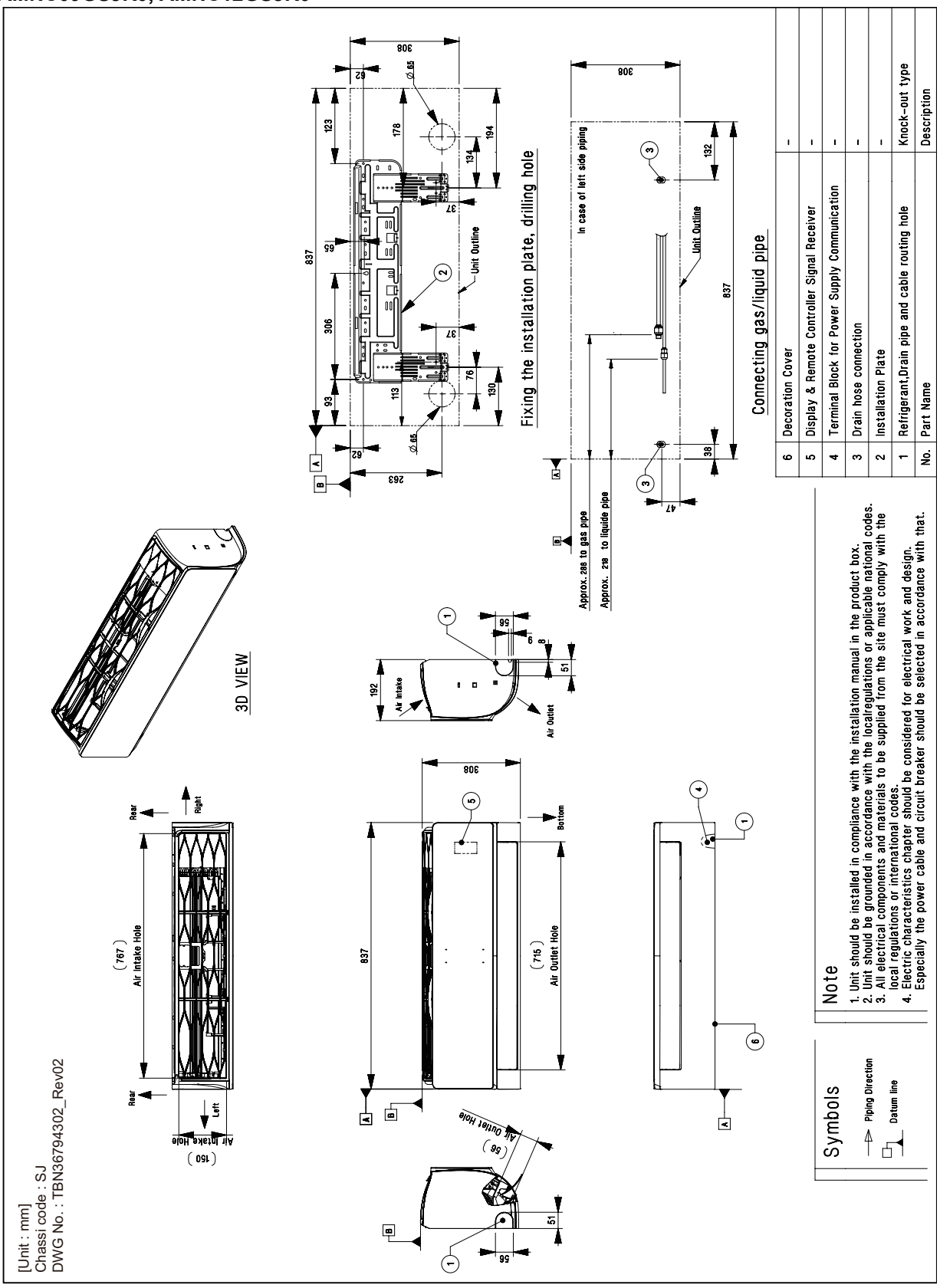
1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

- * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

3. Dimensions

◆ SJ Chassis

AMNC09GSJR0, AMNC12GSJR0

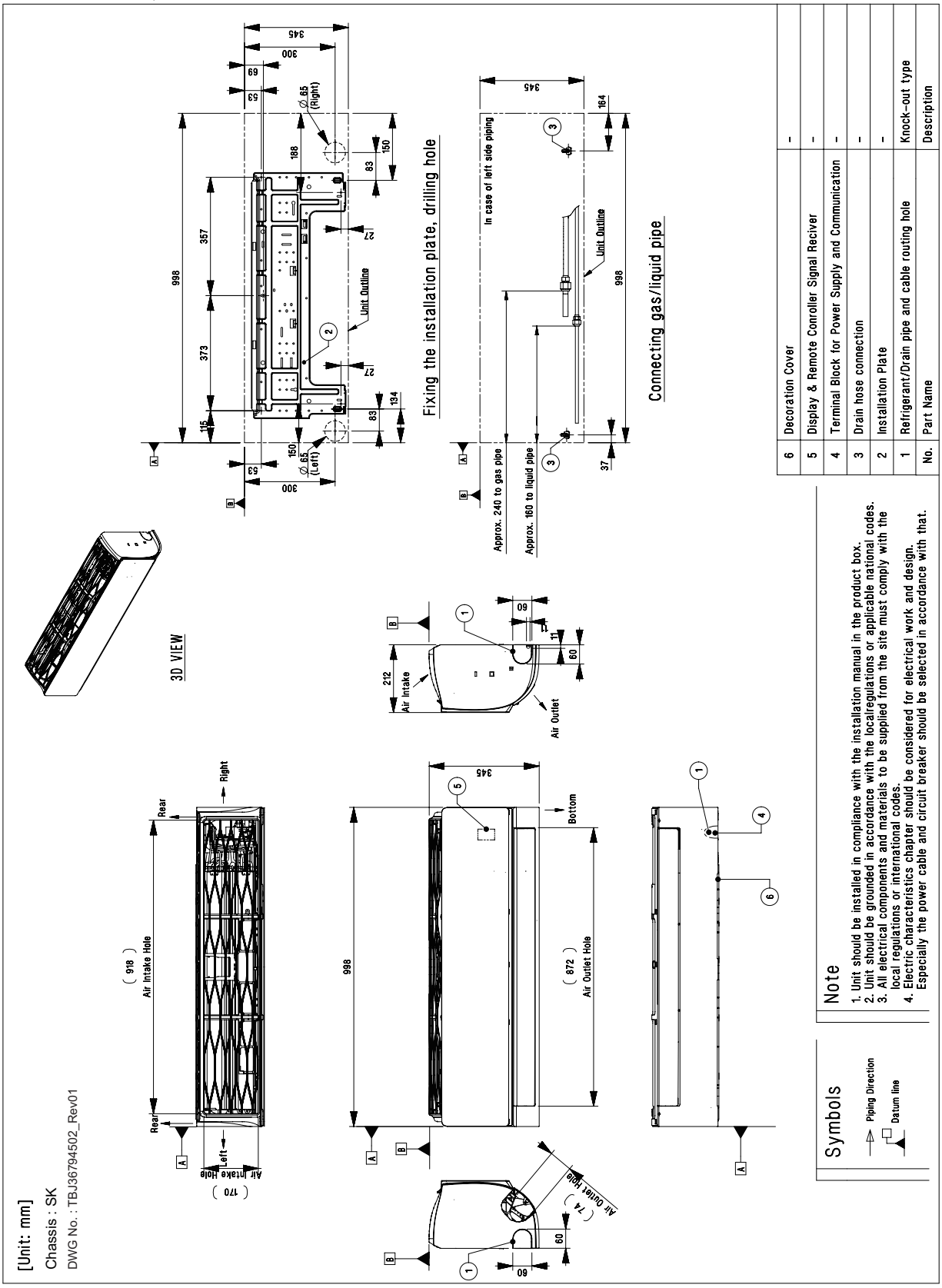


No.	Part Name	Description
6	Decoration Cover	-
5	Display & Remote Controller Signal Receiver	-
4	Terminal Block for Power Supply Communication	-
3	Drain hose connection	-
2	Installation Plate	-
1	Refrigerant,Drain pipe and cable routing hole	Knock-out type

3. Dimensions

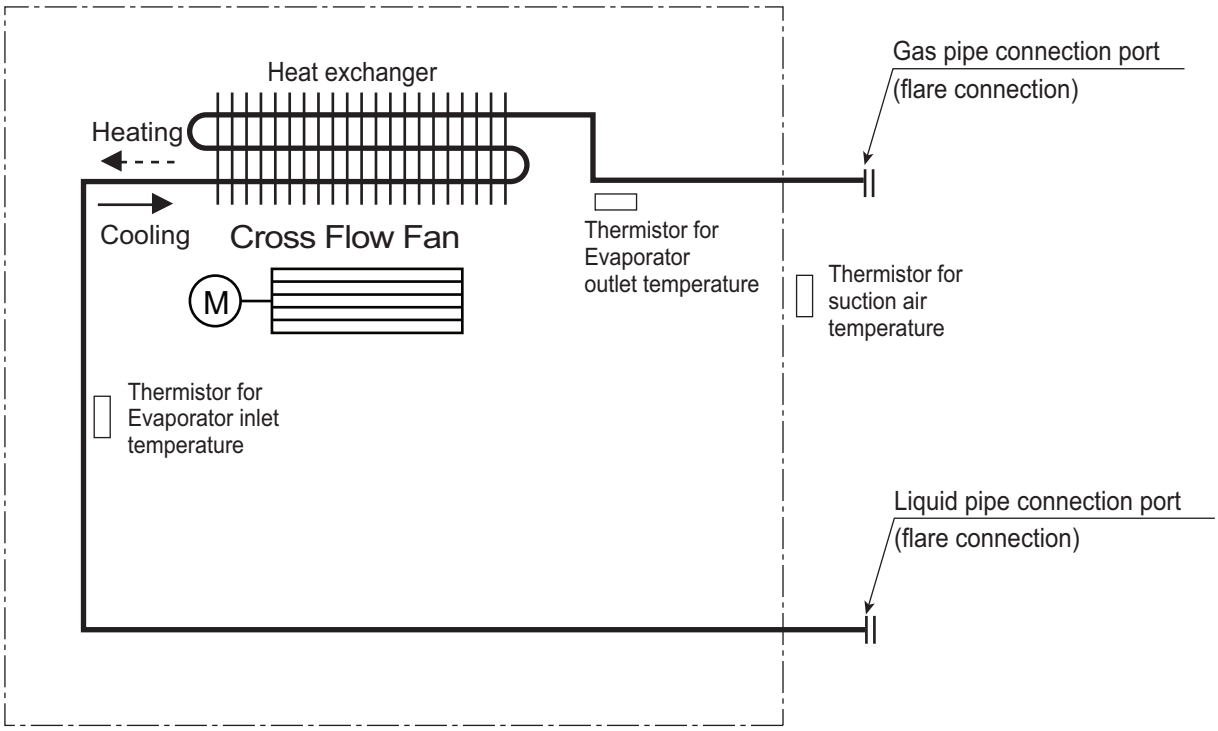
◆ SK Chassis

AMNC18GSKR0, AMNC24GSKR0



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

4. Piping diagrams

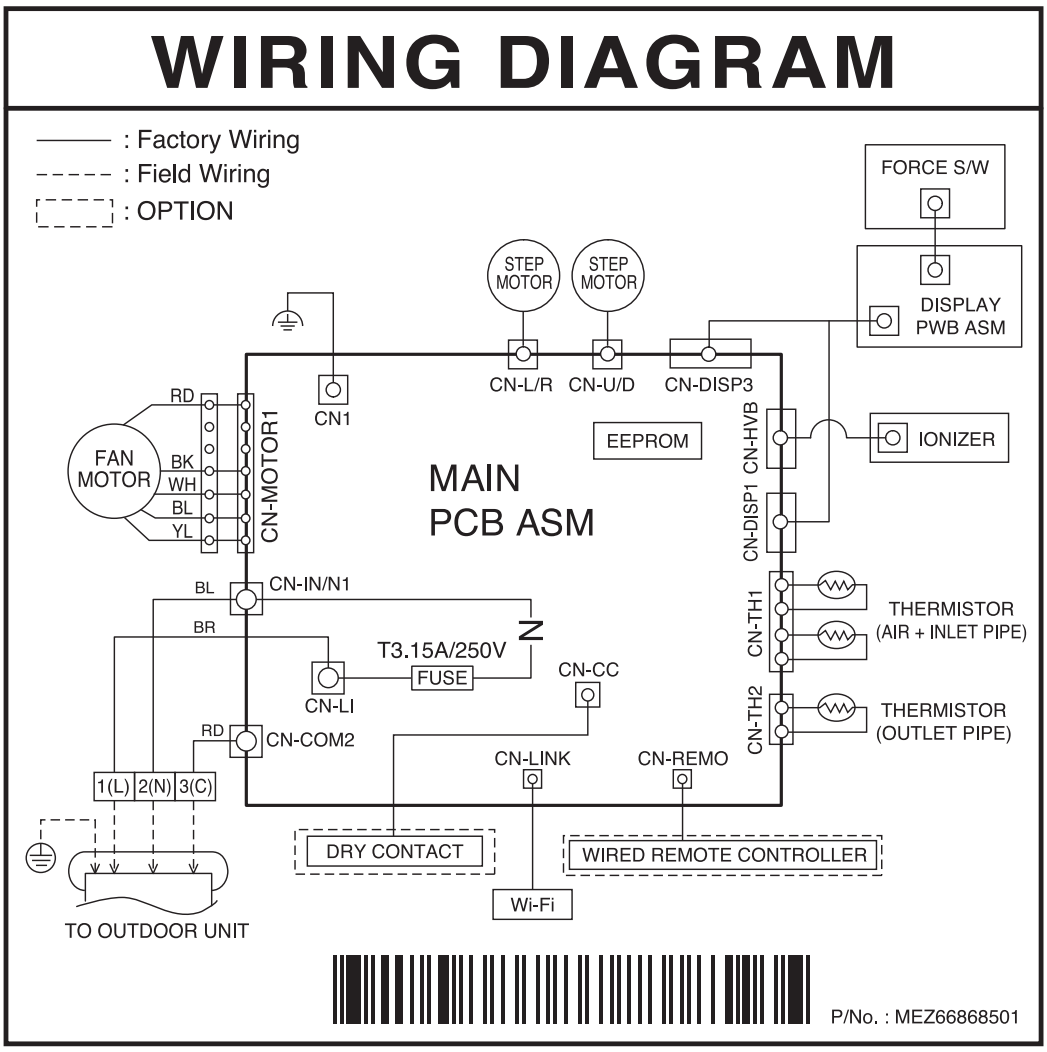


Note

- Heating does not apply to the AMNC model.

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

5. Wiring Diagrams



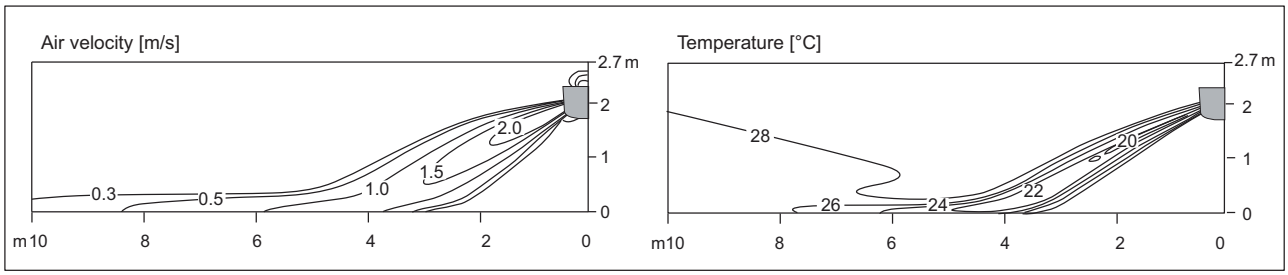
6. Air flow and temperature distributions (reference data)

■ Models : AMNC09GDJR0, AMNC12GDJR0

◆ Cooling

Side View

Discharge angle: 35°



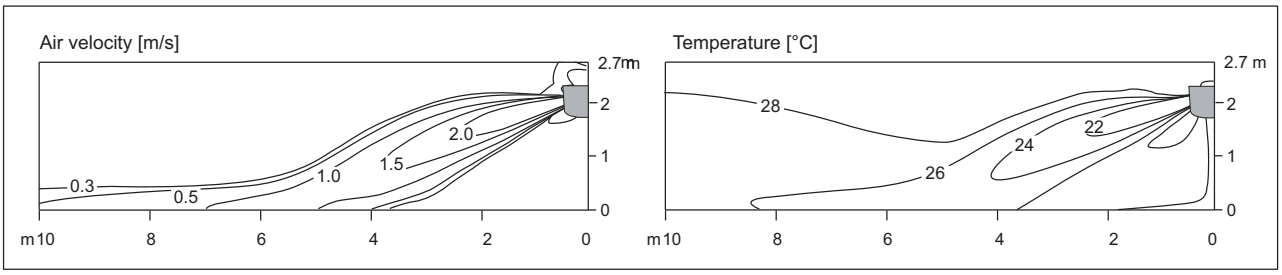
- Vertical Louver : Center
- Fan speed : Power

■ Models : AMNC18GDKR0

◆ Cooling

Side View

Discharge angle: 25°



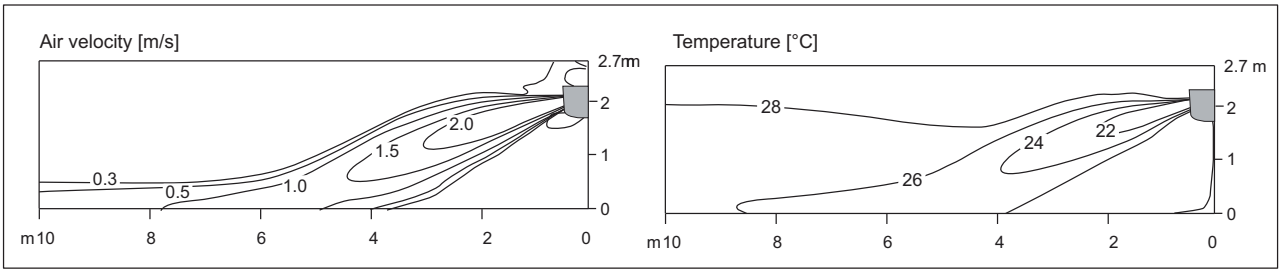
- Vertical Louver : Center
- Fan speed : Power

■ Models : AMNC24GDKR0

◆ Cooling

Side View

Discharge angle: 25°

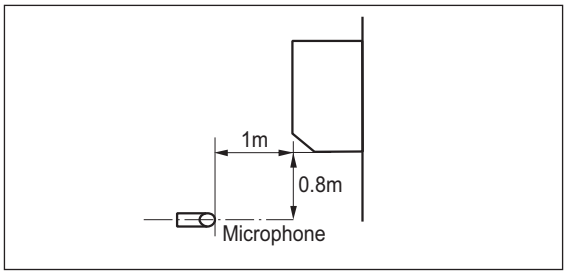


- Vertical Louver : Center
- Fan speed : Power

7. Sound levels

7.1 Sound pressure level

■ Overall



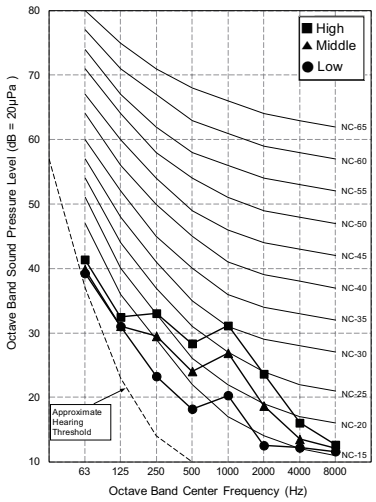
Note

1. Sound measured at some distance away from the center of the unit.
2. Data is valid at free field condition.
3. Reference accoustic 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 in installed.

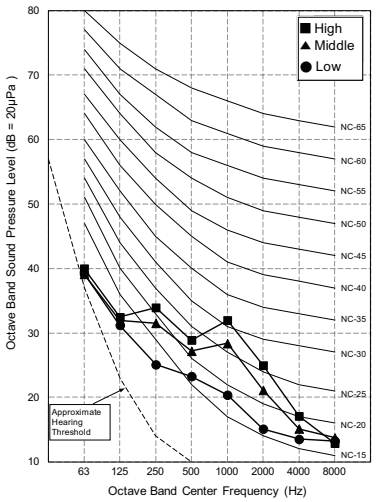
Model	50Hz, 220-240V		
	Sound pressure Levels [dB(A)]		
	H	M	L
AMNC09GDJR0	36	32	27
AMNC12GDJR0	38	34	29
AMNC18GDKR0	44	38	34
AMNC24GDKR0	46	41	36

7. Sound levels

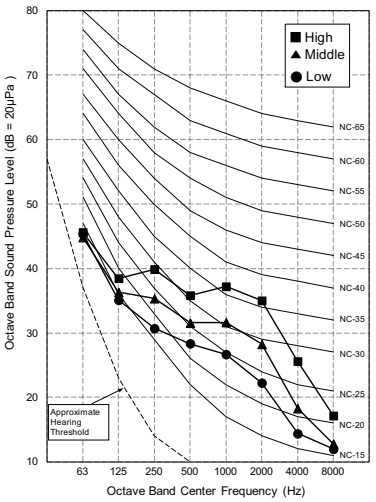
AMNC09GDJR0



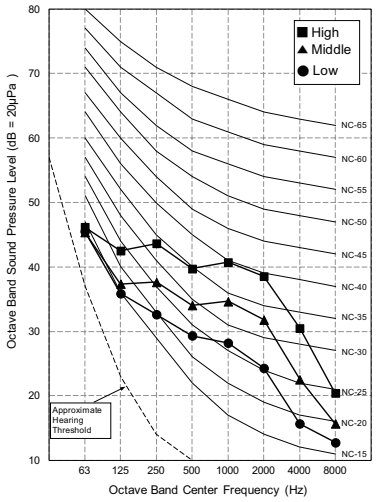
AMNC12GDJR0



AMNC18GDKR0



AMNC24GDKR0



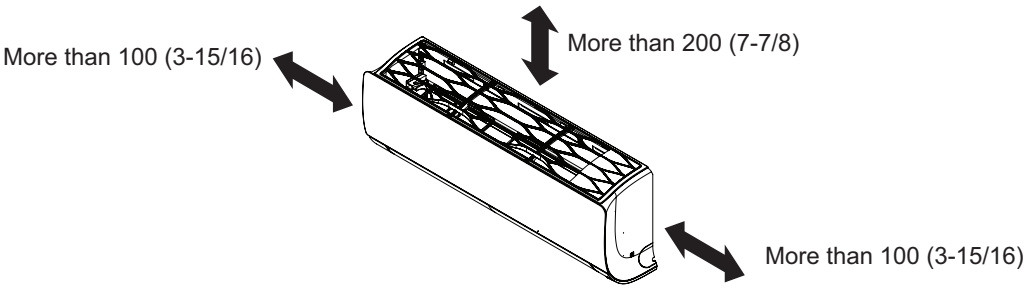
8. Installation

- 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.

[Unit : mm(inch)]

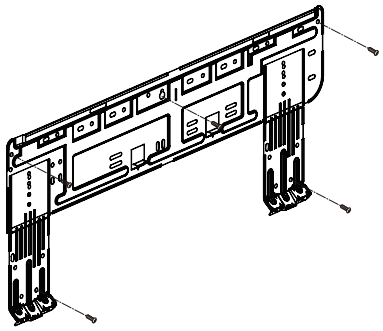


8. Installation

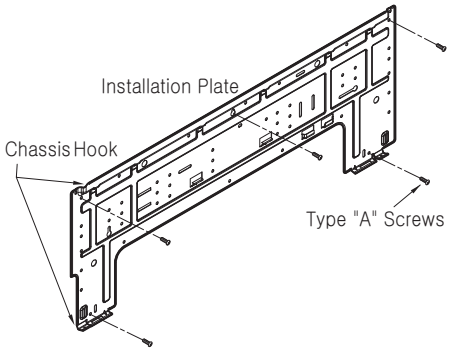
■ Fixing Installation Plate

- 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

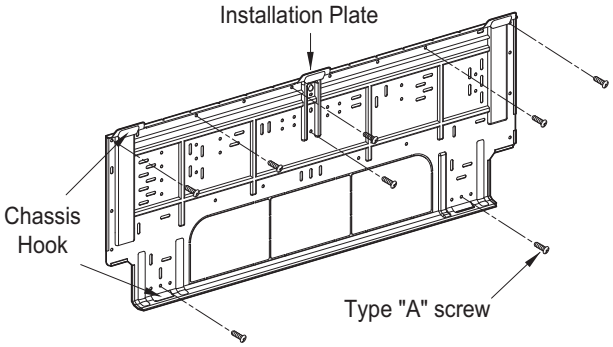


SK Chassis



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

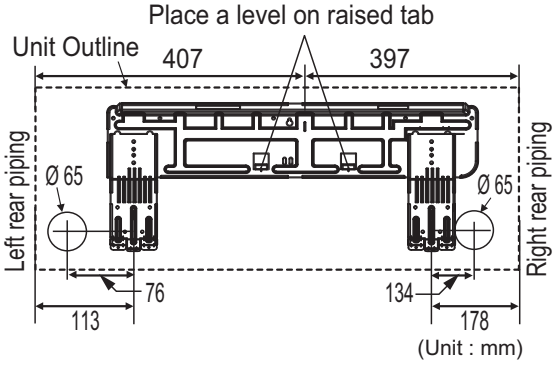
SV Chassis



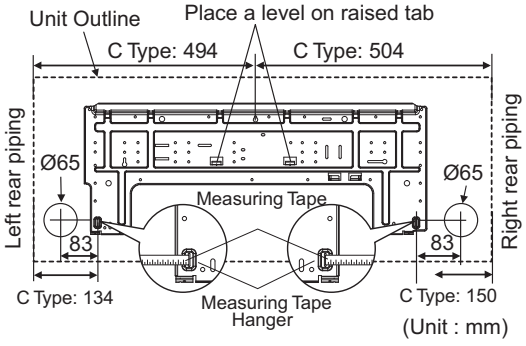
* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

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

SJ chassis



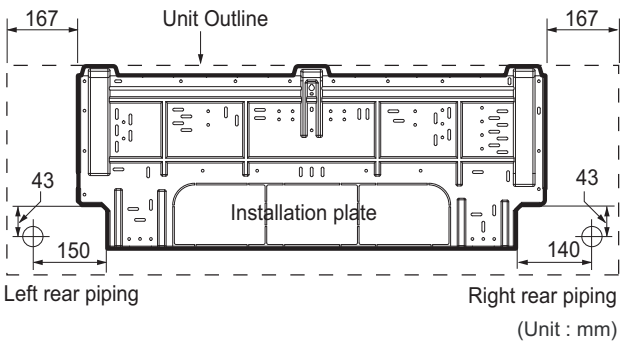
SK chassis



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

8. Installation

SV chassis



(Unit : mm)

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

⚠ CAUTION

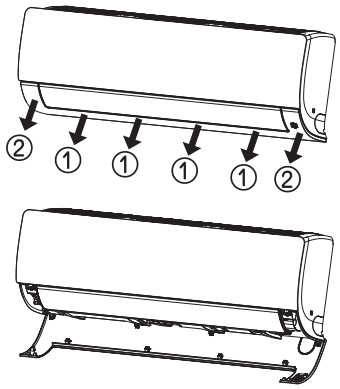
In case that the unit is installed near the sea, the installation parts may be corroded by salt. The installation parts (and the unit) should be taken appropriate anti-corrosion measures.

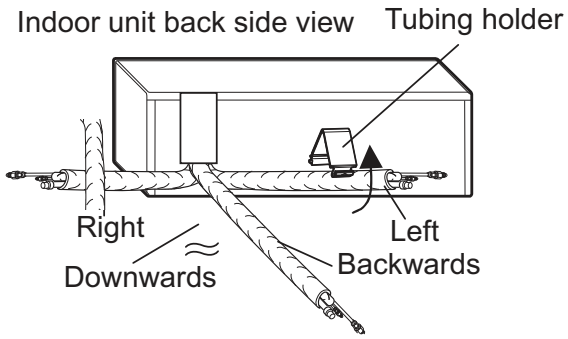
8.2 Connection of pipes and cables

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.





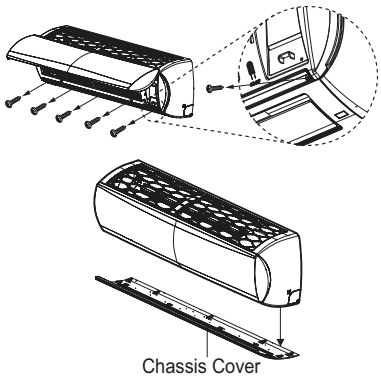
※ The feature can be changed according to type of model.

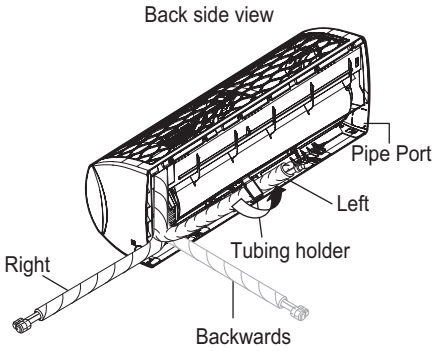
* The feature can be changed according to type of model.
* According to product type, model line up, sales region..etc, applicability of each chassis could be different.

■ SV chassis

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

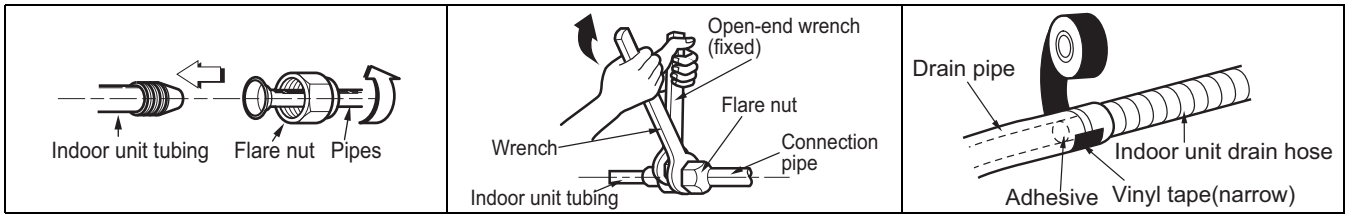
8. Installation





* 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.

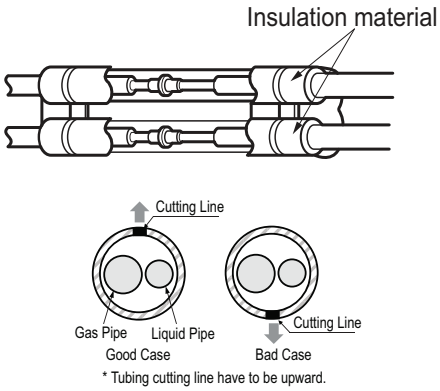
■ Connecting the installation pipe and drain hose

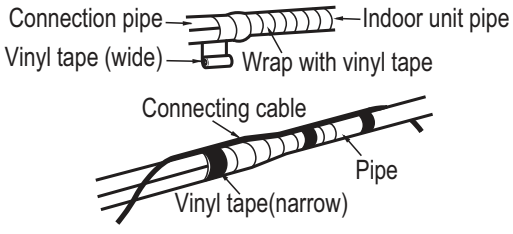


1. Align the center of the pipes and sufficiently tighten the flare nut by hand.
2. Tighten the flare nut with a wrench.
3. When needed to extend the drain hose of indoor unit, assembly the drain pipe as shown on the drawing.

■ 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

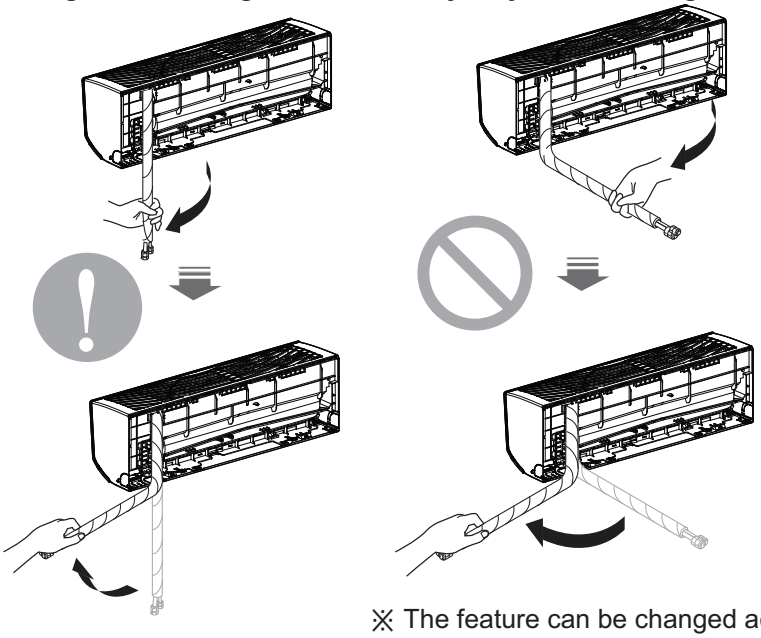
If the drain hose is routed inside the room insulate the hose with an insulation material* so that dripping from sweating condensation) will not damage furniture or floors.

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.**



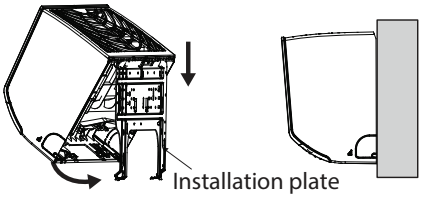
※ The feature can be changed according to type

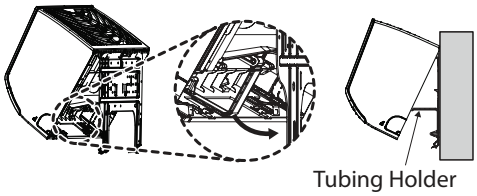
- Installation Information. For right piping. Follow the instruction above.

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 areproperly 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.



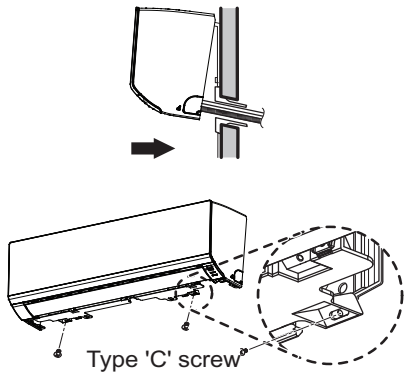


* The feature can be changed according to type of model.

8. Installation

8.2.3 Finishing the indoor unit installation

1. Mount the tubing holder in the original positon.
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) Recovery the chassis cover in Original place. (SV chassis)



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

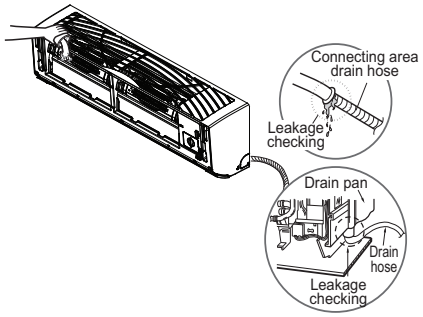
⚠ CAUTION

- **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.

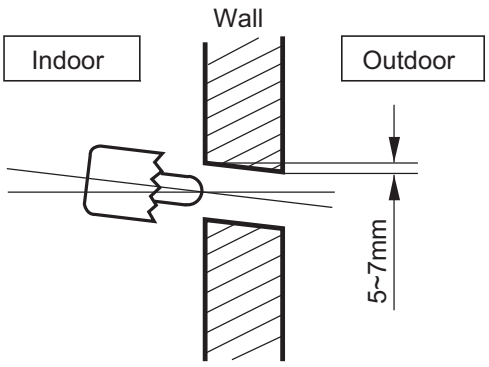


* The feature can be changed according to type of model.

8. Installation

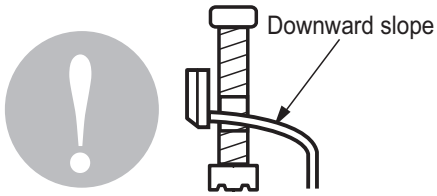
◆ Drill a Hole in the wall

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

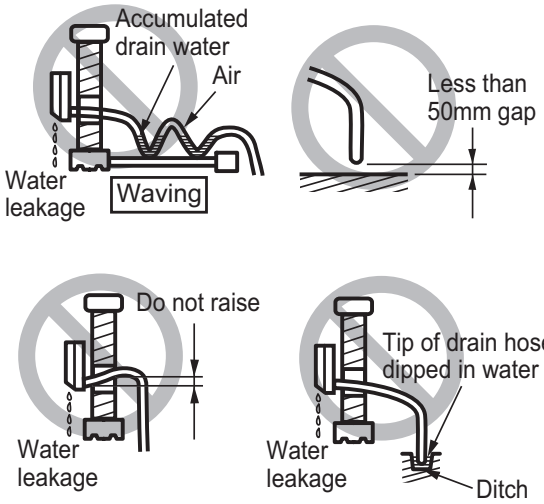


◆ Drain Piping

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:

- 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 ind vidually 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 0.75mm^2 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

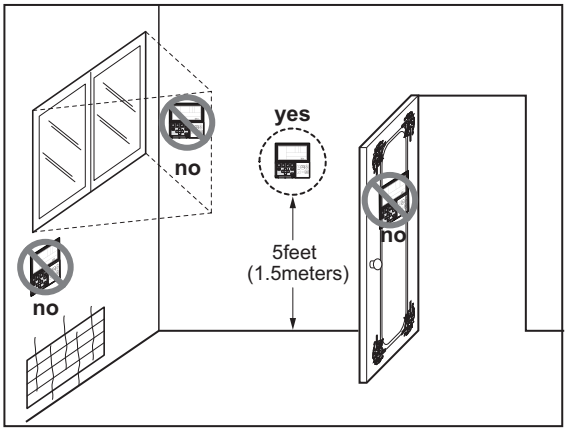
- Make sure that the screws of the terminal are fixed tightly.
- The screw which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened. (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. Specification
3. Dimensions
4. Piping Diagrams
5. Wiring Diagrams
6. Air flow and temperature distributions (reference data)
7. Sound levels
8. Installation

1. List of functions

■ Cooling Only

◆ Basic functions of Indoor Unit

Category	Functions	AMNC09GTUA0, AMNC12GTUA0 AMNC18GTTA0, AMNC24GTTA0
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 / -
	Chaos wind(auto wind)	O
	Jet cool/heat	O / X
	Swirl wind	X
Air purification	Triple filter (Deodorization)	X
	Plasma air purifier (Ionizer)	O
	Allergy Safe filter	X
	Pre-Filter	O
Installation	Drain pump	O
	E.S.P. control*	X
	Electric heater	X
	High ceiling operation*	O
Reliability	Hot start	X
	Self diagnosis	O
	Dry operation	O
Convenience	Auto changeover	X
	Auto cleaning	O
	Auto operation(artificial intelligence)	O
	Auto Restart operation	O
	Child lock*	O
	Forced operation	O
	Group control*	O
	Sleep mode	O (7hr)
	Timer(on/off)	O
	Timer(weekly)*	O
	Two thermistor control*	O
	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)		O

Note

1. O : Applied, X : Not applied
   Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
   Accessory line-ups varies by region, so check your local catalogue or local sales material.
2. Some functions can be limited by remote controller.
3. In case of 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

◆ Accessory Compatibility List

Category		Product	Remark	AMNC09GTUA0 AMNC12GTUA0 AMNC18GTTA0 AMNC24GTTA0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	X
		PQWRCQ0FDB	Cooling Only	O
		PWLSSB21H	Heat Pump	X
		PWLSSB21C	Cooling Only	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	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	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	X
		PDRYCB300	For 3rd Party Thermostat	X
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	X
		PDRYCB500	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	AMNQ09GTUA0, AMNQ12GTUA0 AMNQ18GTTA0, AMNQ24GTTA0
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 / -
	Chaos wind(auto wind)	O
	Jet cool/heat	O / X
	Swirl wind	X
Air purification	Triple filter (Deodorization)	X
	Plasma air purifier (Ionizer)	X
	Allergy Safe filter	X
	Pre-Filter	O
Installation	Drain pump	O
	E.S.P. control*	O
	Electric heater	X
	High ceiling operation*	O
Reliability	Hot start	X
	Self diagnosis	O
	Dry operation	O
Convenience	Auto changeover	X
	Auto cleaning	O
	Auto operation(artificial intelligence)	O
	Auto Restart operation	O
	Child lock*	O
	Forced operation	O
	Group control*	O
	Sleep mode	O
	Timer(on/off)	O
	Timer(weekly)*	O
	Two thermistor control*	O
	Auto Elevation Grille	X
Special Functions	Wi-Fi	O (Accessory)
	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 : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
   Accessory line-ups varies by region, so check your local catalogue or local sales material.
2. Some functions can be limited by remote controller.
3. In case of 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

◆ Accessory Compatibility List

Category		Product	Remark	AMNQ09GTUA0 AMNQ12GTUA0 AMNQ18GTTA0 AMNQ24GTTA0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	X
		PQWRCQ0FDB	Cooling Only	O
		PWLSSB21H	Heat Pump	X
		PWLSSB21C	Cooling Only	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	O
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	For 3rd Party Thermostat	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O
		PDRYCB500	Dry Contact For Modbus	O
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	O
	Extension Wire	PZCWRC1	10m	O
	Wi-Fi Controller*	PWFMDD200	-	O

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

■ Heat Pump

◆ List of function

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 purification	Triple filter (Deodorization)	X
	Plasma air purifier	X
	Allergy Safe filter	X
	Pre-Filter	O
Installation	Drain pump	O
	E.S.P. control*	O
	Electric heater	X
	High ceiling operation*	O
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*	O
	Sleep mode	O
	Timer(on/off)	O
	Timer(weekly)*	O
	Two thermistor control*	O
	Auto Elevation Grille	X
Special Functions	Wi-Fi	O (Accessory)
	Humidity Control	X
Wireless remote controller Supply (included with product)		O**
Wired remote controller Supply (included with product)		X
Network Solution(LGAP)		O

Note

1. O : Applied, X : Not applied
   Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
   Accessory line-ups varies by region, so check your local catalogue or local sales material.
2. Some functions can be limited by remote controller.
3. In case of 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.

1. List of functions

◆ Accessory Compatibility List

Category		Product	Remark	AMNW09GTUA0 AMNW12GTUA0 AMNW18GTTA0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
		PWLSSB21H	Heat Pump	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	Standard	PREMTB001	Standard II (White)	O
		PREMTBB01	Standard II (Black)	O
		PREMTB100**	Standard III (White)	O
	Premium	PREMTA000(A/B)	Premium	O
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	For 3rd Party Thermostat	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O
		PDRYCB500	Dry Contact For Modbus	O
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
	CTI (Communication transfer interface)	PKFC0	-	X
	CO_2 Sensor	PES-C0RV0	For ERV, ERV DX Indoor units	X
	Group control wire	PZCWRCG3	0.25m	O
	2-Remo Control Wire	PZCWRC2	0.25m	O
	Extension Wire	PZCWRC1	10m	O
	Wi-Fi Controller*	PWFMDD200	-	O

Note

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

2. Specifications

■ Cooling Only

Model Name				AMNC09GTUA0	AMNC12GTUA0
Power Supply			V, Ø, Hz	220-240, 1, 50/60	220-240, 1, 50/60
Power Input			W	-	-
Running Current(Max.)			A	0.2	0.2
Casing Color			-	-	-
Dimensions	Body	W × H × D	mm	860 × 132 × 450	860 × 132 × 450
		W × H × D	inch	33-27/32 × 5-3/16 × 17-23/32	33-27/32 × 5-3/16 × 17-23/32
Weight	Body		kg (lbs)	11.7 (25.8)	11.7 (25.8)
	Shipping		kg (lbs)	14.4 (31.7)	14.4 (31.7)
Heat Exchanger	(Row × Column × Fins per inch) × No.		-	(2 × 12 × 18) × 1	(2 × 12 × 18) × 1
	Face Area		m^2 (ft^2)	0.18 (1.90)	0.18 (1.90)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m^3/min	7.5 / 7.3 / 6.8	8.1 / 7.4 / 7.0
		H / M / L	ft^3/min	265 / 258 / 240	286 / 261 / 247
Fan Motor	Type		-	BLDC	BLDC
	Output		W × No.	20 × 1	20 × 1
Sound Pressure Level		H / M / L	dB(A)	36 / 34 / 32	37 / 36 / 33
Sound Power Level		H / M / L	dB(A)	-	-
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 (AWG)	4C × 0.75 (18)	4C x 0.75 (18)
Decoration Panel 1	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)
Decoration Panel 2	Model Name		-	PT-UAHG0	PT-UAHG0
	Casing Color		-	White	White
	Dimensions	W × H × D	mm	1,160 × 34 × 500	1,160 × 34 × 500
		W × H × D	inch	45-21/32 × 1-11/32 × 19-11/16	45-21/32 × 1-11/32 × 19-11/16
	Net weight		kg (lbs)	3.9 (8.6)	3.9 (8.6)
Decoration Panel 3	Model Name		-	PT-UPHG0	PT-UPHG0
	Casing Color		-	White	White
	Dimensions	W × H × D	mm	1,160 × 34 × 500	1,160 × 34 × 500
		W × H × D	inch	45-21/32 × 1-11/32 × 19-11/16	45-21/32 × 1-11/32 × 19-11/16
	Net weight		kg (lbs)	4.1 (9.0)	4.1 (9.0)

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

• * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNC18GTTA0	AMNC24GTTA0
Power Supply			V, Ø, Hz	220-240, 1, 50/60	220-240, 1, 50/60
Power Input			W	-	-
Running Current(Max.)			A	0.31	0.31
Casing Color			-	-	-
Dimensions	Body	W × H × D	mm	1,180 × 132 × 450	1,180 × 132 × 450
		W × H × D	inch	46-15/32 × 5-3/16 × 17-23/32	46-15/32 × 5-3/16 × 17-23/32
Weight	Body		kg (lbs)	14.5 (32.0)	14.5 (32.0)
	Shipping		kg (lbs)	17.9 (39.5)	17.9 (39.5)
Heat Exchanger	(Row × Column × Fins per inch) × No.		-	(2 × 12 × 18) × 1	(2 × 12 × 18) × 1
	Face Area		m^2 (ft^2)	0.24 (2.58)	0.24 (2.58)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m^3/min	13.3 / 11.8 / 10.8	14.0 / 13.3 / 11.8
		H / M / L	ft^3/min	470 / 417 / 381	494 / 470 / 417
Fan Motor	Type		-	BLDC	BLDC
	Output		W × No.	30 × 1	30 × 1
Sound Pressure Level		H / M / L	dB(A)	41 / 39 / 36	44 / 41 / 39
Sound Power Level		H / M / L	dB(A)	-	-
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. × mm^2 (AWG)	4C × 0.75 (18)	4C x 0.75 (18)
Decoration Panel 1	Model Name		-	PT-UTC	PT-UTC
	Casing Color		-	Morning Fog	Morning Fog
	Dimensions	W x H x D	mm	1,420 × 34 × 500	1,420 × 34 × 500
		W x H x D	inch	55-29/32 × 1-11/32 × 19-11/16	55-29/32 × 1-11/32 × 19-11/16
	Net weight		kg (lbs)	5.0 (11.0)	5.0 (11.0)
Decoration Panel 2	Model Name		-	PT-TAHG0	PT-TAHG0
	Casing Color		-	White	White
	Dimensions	W × H × D	mm	1,480 × 34 × 500	1,480 × 34 × 500
		W × H × D	inch	58-9/32 x 1-11/32 x 19-11/16	58-9/32 x 1-11/32 x 19-11/16
	Net weight		kg (lbs)	4.8 (10.6)	4.8 (10.6)
Decoration Panel 3	Model Name		-	PT-TPHG0	PT-TPHG0
	Casing Color		-	White	White
	Dimensions	W × H × D	mm	1,480 × 34 × 500	1,480 × 34 × 500
		W × H × D	inch	58-9/32 x 1-11/32 x 19-11/16	58-9/32 x 1-11/32 x 19-11/16
	Net weight		kg (lbs)	4.9 (10.8)	4.9 (10.8)

Note

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2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

- * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNQ09GTUA0	AMNQ12GTUA0
Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50
Power Input			W	-	-
Running Current(Max.)			A	0.2	0.2
Casing Color			-	-	-
Dimensions	Body	W × H × D	mm	860 × 132 × 450	860 × 132 × 450
		W × H × D	inch	33-27/32 × 5-3/16 × 17-23/32	33-27/32 × 5-3/16 × 17-23/32
Weight	Body		kg (lbs)	11.7 (25.8)	11.7 (25.8)
	Shipping		kg (lbs)	14.4 (31.7)	14.4 (31.7)
Heat Exchanger	(Row × Column × Fins per inch) × No.		-	(2 × 12 × 18) × 1	(2 × 12 × 18) × 1
	Face Area		m^2 (ft^2)	0.18 (1.90)	0.18 (1.90)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m^3/min	7.5 / 7.3 / 6.8	8.1 / 7.4 / 7.0
		H / M / L	ft^3/min	265 / 258 / 240	286 / 261 / 247
Fan Motor	Type		-	BLDC	BLDC
	Output		W × No.	20 × 1	20 × 1
Sound Pressure Level		H / M / L	dB(A)	36 / 34 / 32	37 / 36 / 33
Sound Power Level		H / M / L	dB(A)	-	-
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 (AWG)	4C × 0.75 (18)	4C x 0.75 (18)
Decoration Panel 1	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)
Decoration Panel 2	Model Name		-	PT-UAHG0	PT-UAHG0
	Casing Color		-	White	White
	Dimensions	W × H × D	mm	1,160 × 34 × 500	1,160 × 34 × 500
		W × H × D	inch	45-21/32 × 1-11/32 × 19-11/16	45-21/32 × 1-11/32 × 19-11/16
	Net weight		kg (lbs)	3.9 (8.6)	3.9 (8.6)
Decoration Panel 3	Model Name		-	PT-UPHG0	PT-UPHG0
	Casing Color		-	White	White
	Dimensions	W × H × D	mm	1,160 × 34 × 500	1,160 × 34 × 500
		W × H × D	inch	45-21/32 × 1-11/32 × 19-11/16	45-21/32 × 1-11/32 × 19-11/16
	Net weight		kg (lbs)	4.1 (9.0)	4.1 (9.0)

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

- * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNQ18GTTA0	AMNQ24GTTA0
Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50
Power Input			W	-	-
Running Current(Max.)			A	0.31	0.31
Casing Color			-	-	-
Dimensions	Body	W × H × D	mm	1,180 × 132 × 450	1,180 × 132 × 450
		W × H × D	inch	46-15/32 × 5-3/16 × 17-23/32	46-15/32 × 5-3/16 × 17-23/32
Weight	Body		kg (lbs)	14.5 (32.0)	14.5 (32.0)
	Shipping		kg (lbs)	17.9 (39.5)	17.9 (39.5)
Heat Exchanger	(Row × Column × Fins per inch) × No.		-	(2 × 12 × 18) × 1	(2 × 12 × 18) × 1
	Face Area		m^2 (ft^2)	0.24 (2.58)	0.24(2.58)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m^3/min	13.3 / 11.8 / 10.8	14.0 / 13.3 / 11.8
		H / M / L	ft^3/min	470 / 417 / 381	494 / 470 / 417
Fan Motor	Type		-	BLDC	BLDC
	Output		W × No.	30 × 1	30 × 1
Sound Pressure Level		H / M / L	dB(A)	41 / 39 / 36	44 / 41 / 39
Sound Power Level		H / M / L	dB(A)	-	-
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. × mm^2 (AWG)	4C × 0.75 (18)	4C x 0.75 (18)
Decoration Panel 1	Model Name		-	PT-UTC	PT-UTC
	Casing Color		-	Morning Fog	Morning Fog
	Dimensions	W x H x D	mm	1,420 × 34 × 500	1,420 × 34 × 500
		W x H x D	inch	55-29/32 × 1-11/32 × 19-11/16	55-29/32 × 1-11/32 × 19-11/16
	Net weight		kg (lbs)	5.0 (11.0)	5.0 (11.0)
Decoration Panel 2	Model Name		-	PT-TAHG0	PT-TAHG0
	Casing Color		-	White	White
	Dimensions	W × H × D	mm	1,480 × 34 × 500	1,480 × 34 × 500
		W × H × D	inch	58-9/32 x 1-11/32 x 19-11/16	58-9/32 x 1-11/32 x 19-11/16
	Net weight		kg (lbs)	4.8 (10.6)	4.8 (10.6)
Decoration Panel 3	Model Name		-	PT-TPHG0	PT-TPHG0
	Casing Color		-	White	White
	Dimensions	W × H × D	mm	1,480 × 34 × 500	1,480 × 34 × 500
		W × H × D	inch	58-9/32 x 1-11/32 x 19-11/16	58-9/32 x 1-11/32 x 19-11/16
	Net weight		kg (lbs)	4.9 (10.8)	4.9 (10.8)

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

• * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

■ Heat Pump

Model Name				AMNW09GTUA0	AMNW12GTUA0
Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50
				220, 1, 60	220, 1, 60
Power Input			W	-	-
Running Current(Max.)			A	0.2	0.2
Casing Color			-	-	-
Dimensions	Body	W x H x D	mm	860 × 132 × 450	860 × 132 × 450
Weight	Body		kg (lbs)	11.7 (25.8)	11.7 (25.8)
	Shipping		kg (lbs)	14.4 (31.7)	14.4 (31.7)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 × 12 × 18) × 1	(2 × 12 × 18) × 1
	Face Area		m² (ft²)	0.18 (1.90)	0.18 (1.90)
Fan	Type		-	Cross Flow Fan	Cross Flow Fan
	Air Flow Rate	H / M / L	m³/min	7.5 / 7.3 / 6.8	8.1 / 7.4 / 7.0
		H / M / L	ft³/min	265 / 258 / 240	286 / 261 / 247
Fan Motor	Type		-	BLDC	BLDC
	Output		W × No.	20 × 1	20 × 1
Sound Pressure Level		H / M / L	dB(A)	36 / 34 / 32	37 / 36 / 33
Sound Power Level		Max.	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. × mm²	4C x 0.75	4C x 0.75
Decoration Panel 1	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)
Decoration Panel 2	Model Name		-	PT-UAHG0	PT-UAHG0
	Casing Color		-	White	White
	Dimensions	W × H × D	mm	1,160 × 34 × 500	1,160 × 34 × 500
		W × H × D	inch	45-21/32 × 1-11/32 × 19-11/16	45-21/32 × 1-11/32 × 19-11/16
	Net weight		kg (lbs)	3.9 (8.6)	3.9 (8.6)
Decoration Panel 3	Model Name		-	PT-UPHG0	PT-UPHG0
	Casing Color		-	White	White
	Dimensions	W × H × D	mm	1,160 × 34 × 500	1,160 × 34 × 500
		W × H × D	inch	45-21/32 × 1-11/32 × 19-11/16	45-21/32 × 1-11/32 × 19-11/16
	Net weight		kg (lbs)	4.1 (9.0)	4.1 (9.0)

Note

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2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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				AMNW18GTTA0
Power Supply			V, Ø, Hz	220-240, 1, 50
				220, 1, 60
Power Input			W	-
Running Current(Max.)			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
Weight	Body		kg (lbs)	14.5 (32.0)
	Shipping		kg (lbs)	17.9 (39.5)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 × 12 × 18) × 1
	Face Area		m² (ft²)	0.24 (2.58)
Fan	Type		-	Cross Flow Fan
	Air Flow Rate	H / M / L	m³/min	13.3 / 11.8 / 10.8
		H / M / L	ft³/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. × mm²	4C x 0.75
Decoration Panel 1	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)
Decoration Panel 2	Model Name		-	PT-TAHG0
	Casing Color		-	White
	Dimensions	W × H × D	mm	1,480 × 34 × 500
		W × H × D	inch	58-9/32 x 1-11/32 x 19-11/16
	Net weight		kg (lbs)	4.8 (10.6)
Decoration Panel 3	Model Name		-	PT-TPHG0
	Casing Color		-	White
	Dimensions	W × H × D	mm	1,480 × 34 × 500
		W × H × D	inch	58-9/32 x 1-11/32 x 19-11/16
	Net weight		kg (lbs)	4.9 (10.8)

Note

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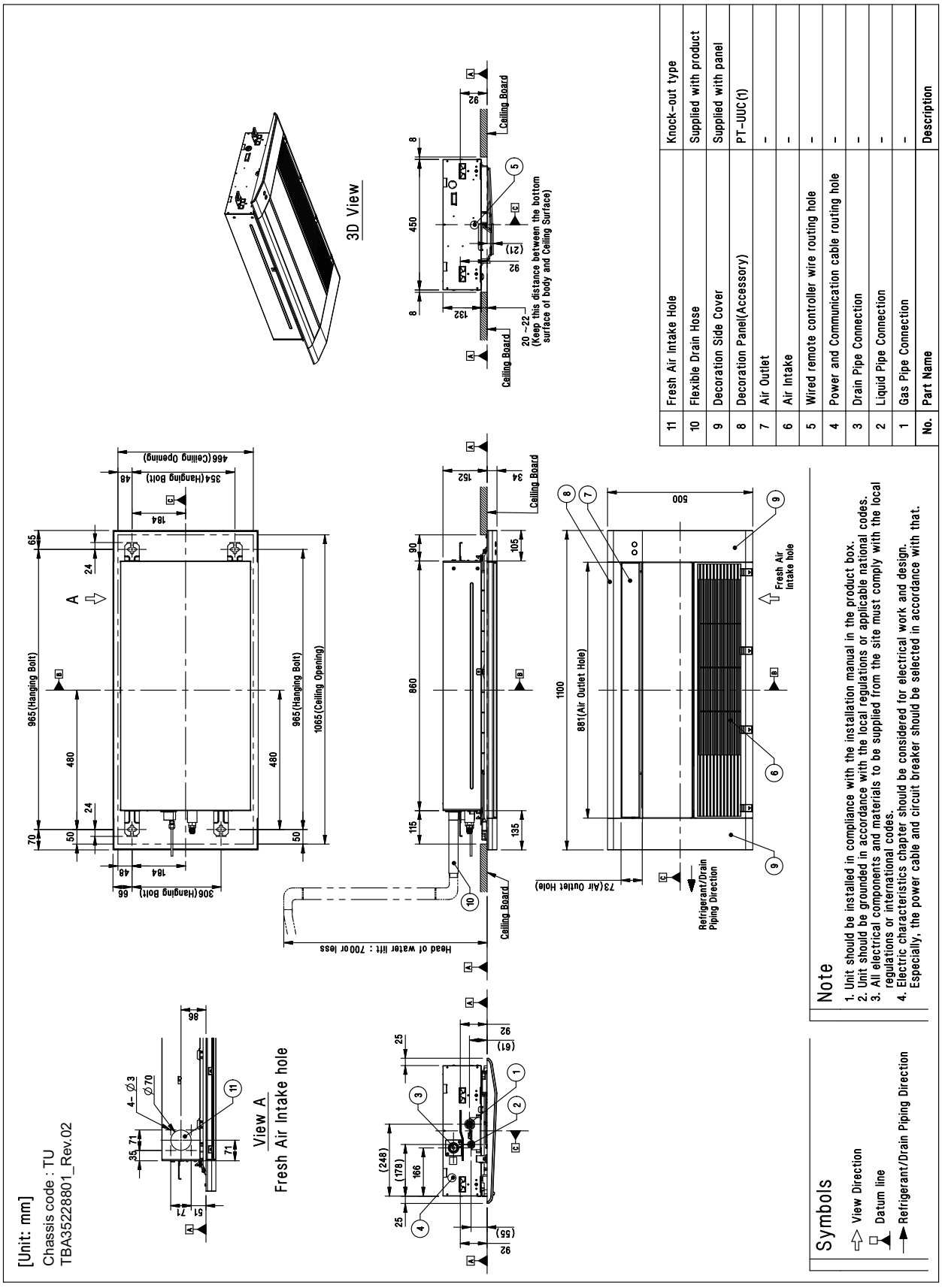
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

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

3. Dimensions

■ TU Chassis Models

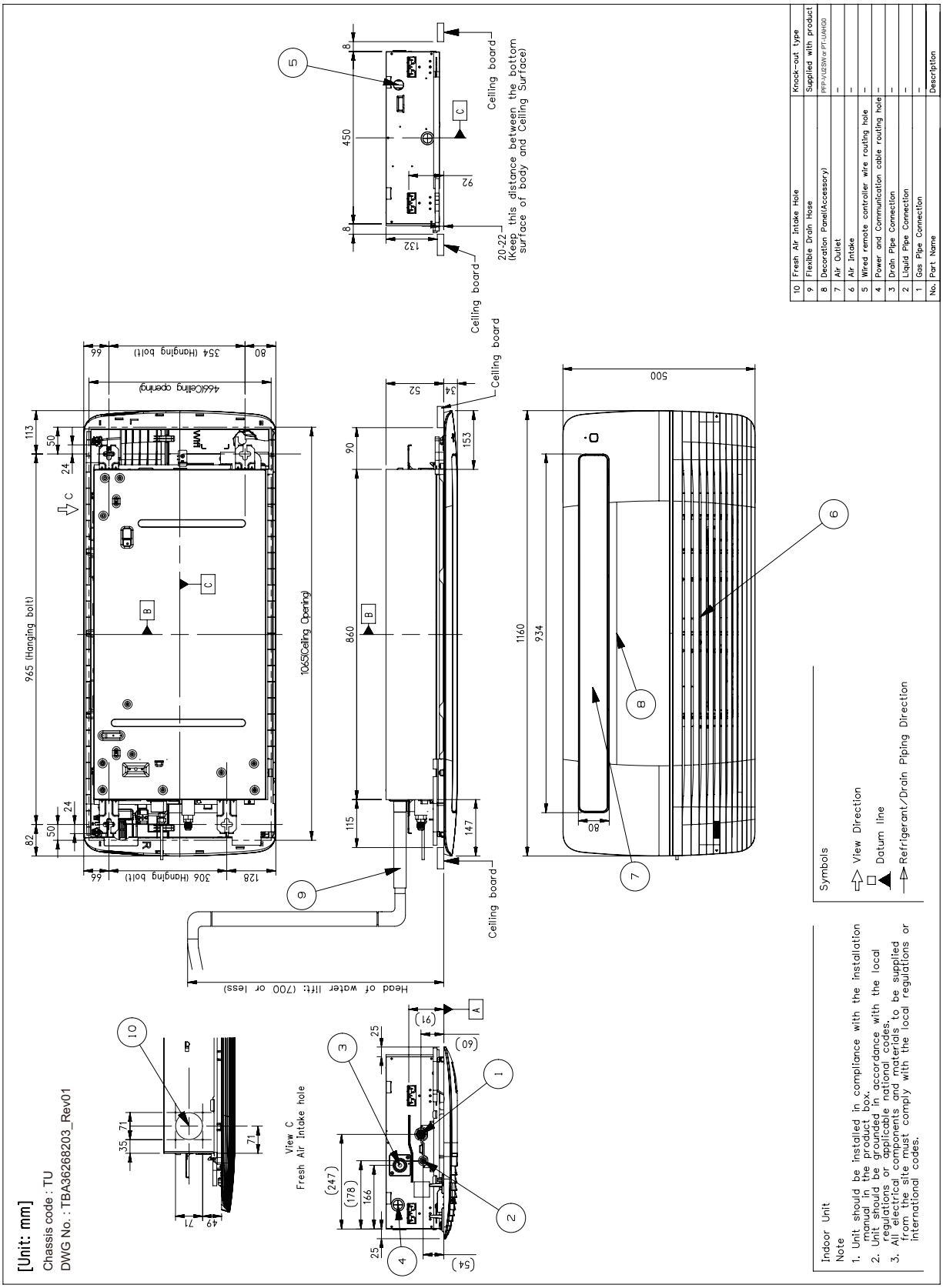
◆ Panel Name : PT-UUC(1)



No.	Part Name	Description
11	Fresh Air Intake Hole	Knock-out type
10	Flexible Drain Hose	Supplied with product
9	Decoration Side Cover	Supplied with panel
8	Decoration Panel(Accessory)	PT-UUC(1)
7	Air Outlet	-
6	Air Intake	-
5	Wired remote controller wire routing hole	-
4	Power and Communication cable routing hole	-
3	Drain Pipe Connection	-
2	Liquid Pipe Connection	-
1	Gas Pipe Connection	-

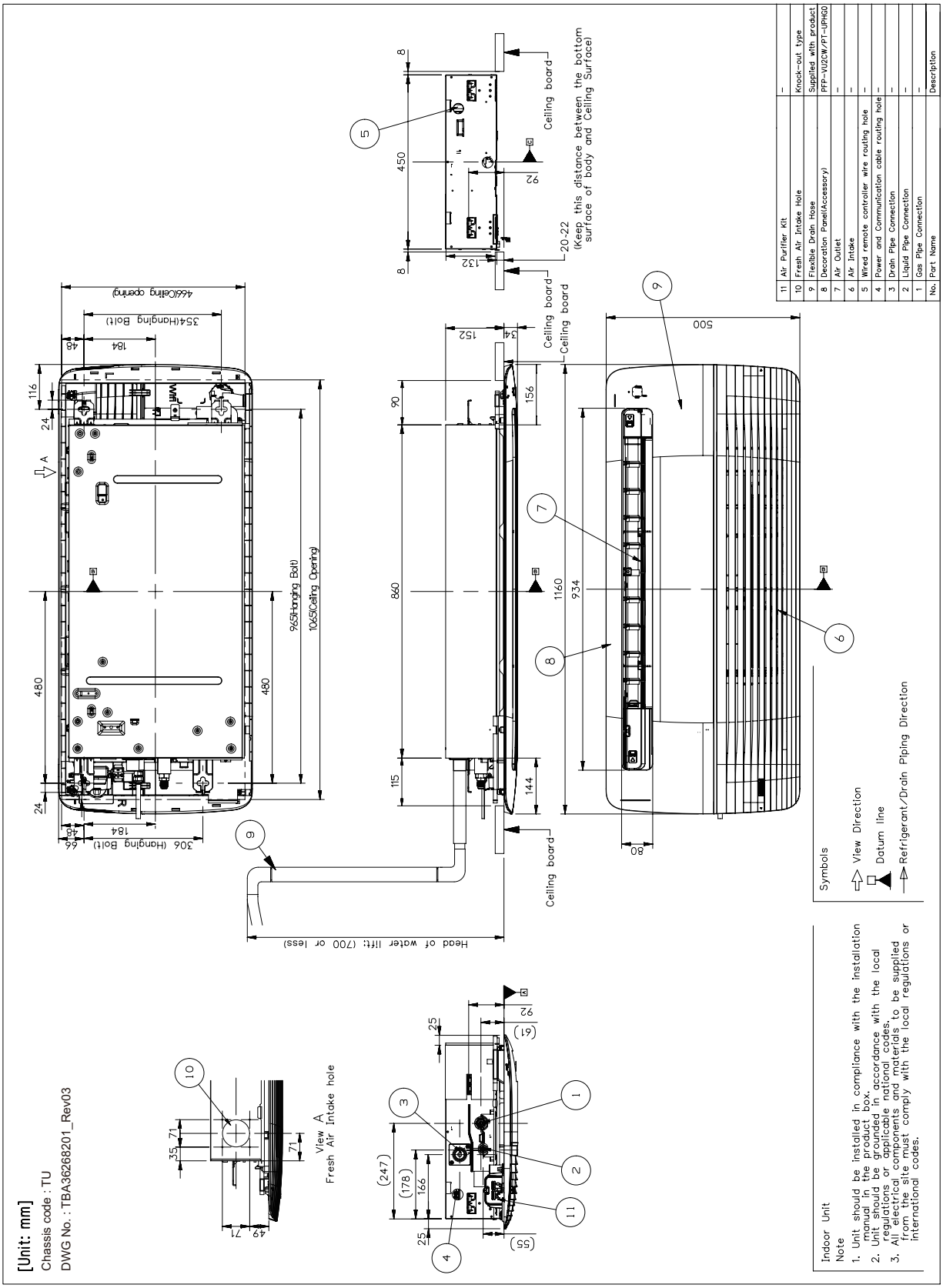
3. Dimensions

◆ Panel Name : PT-UAHG0



3. Dimensions

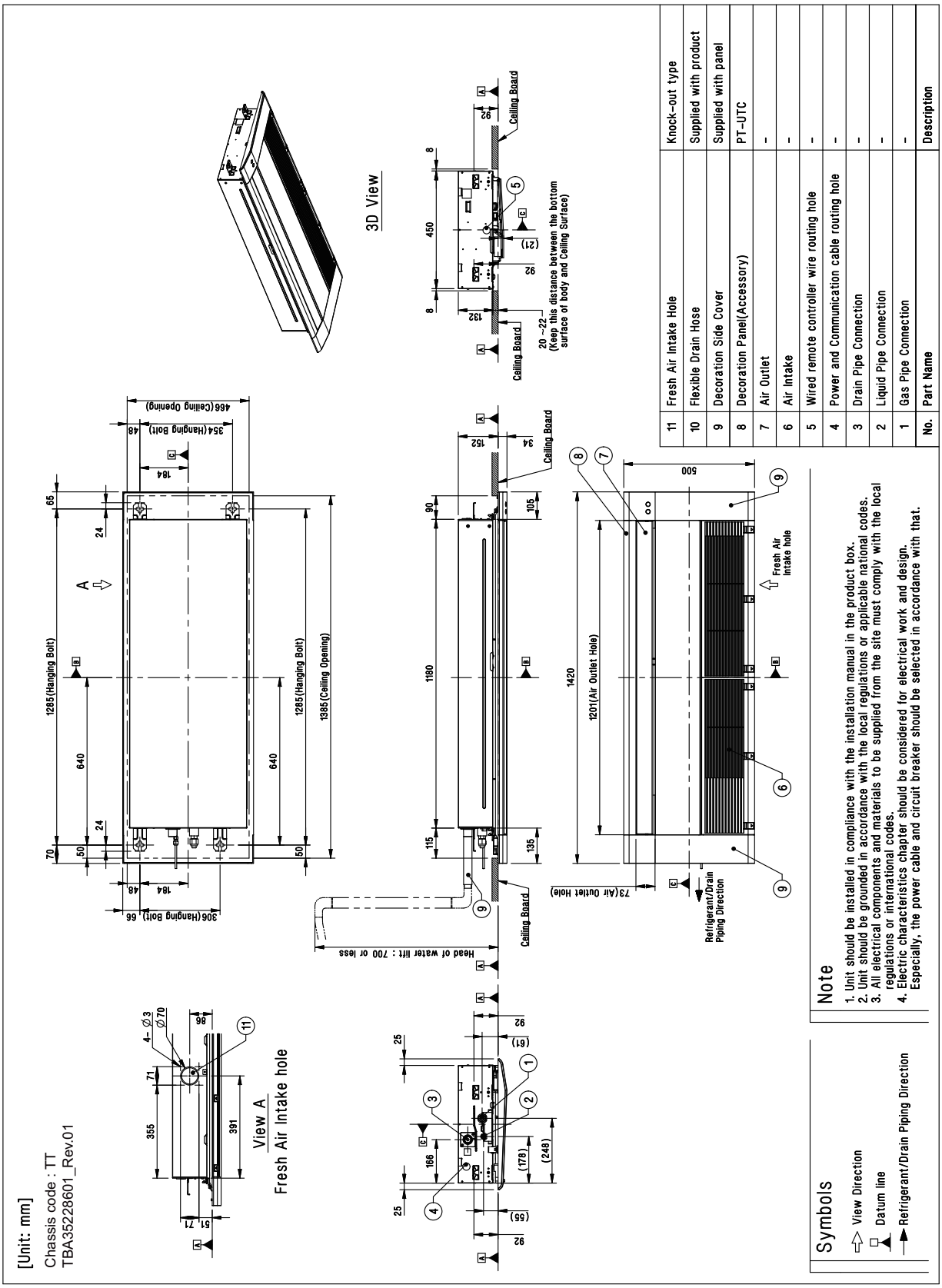
◆ Panel Name : PT-UPHG0



3. Dimensions

■ TT Chassis Models

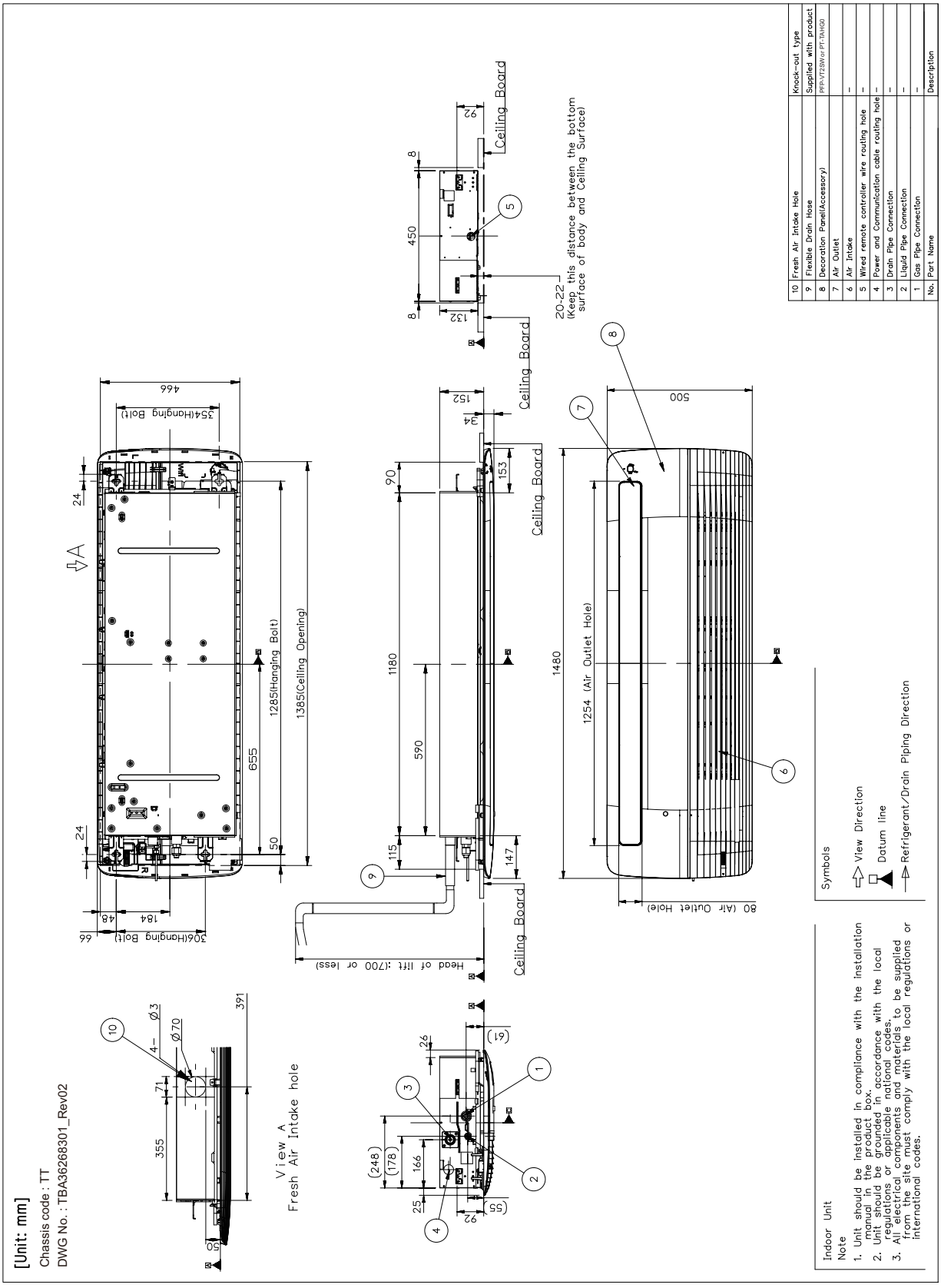
◆ Panel Name : PT-UTC



No.	Part Name	Description
11	Fresh Air Intake Hole	Knock-out type
10	Flexible Drain Hose	Supplied with product
9	Decoration Side Cover	Supplied with panel
8	Decoration Panel(Accessory)	PT-UTC
7	Air Outlet	-
6	Air Intake	-
5	Wired remote controller wire routing hole	-
4	Power and Communication cable routing hole	-
3	Drain Pipe Connection	-
2	Liquid Pipe Connection	-
1	Gas Pipe Connection	-

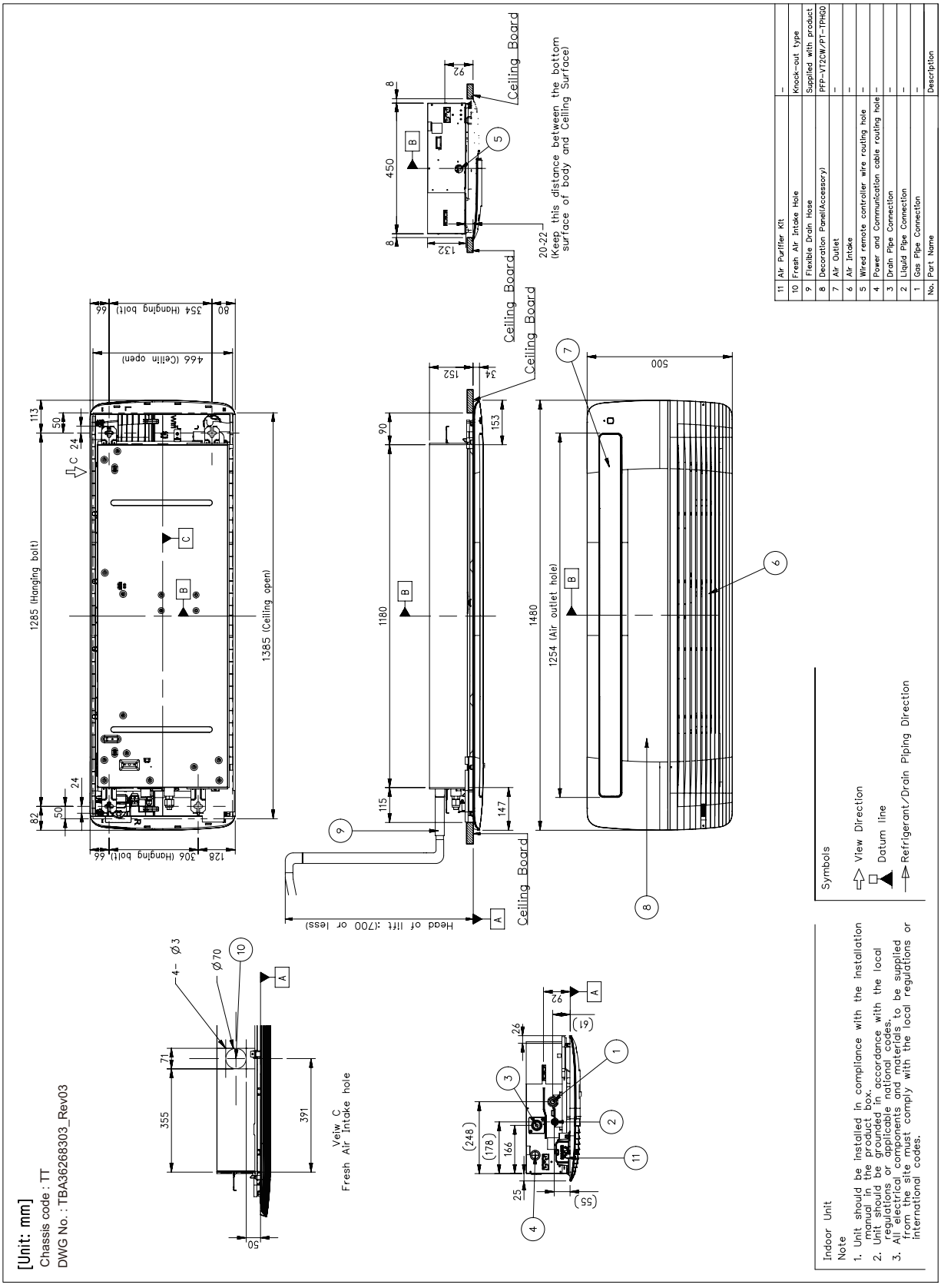
3. Dimensions

◆ Panel Name : PT-TAHG0

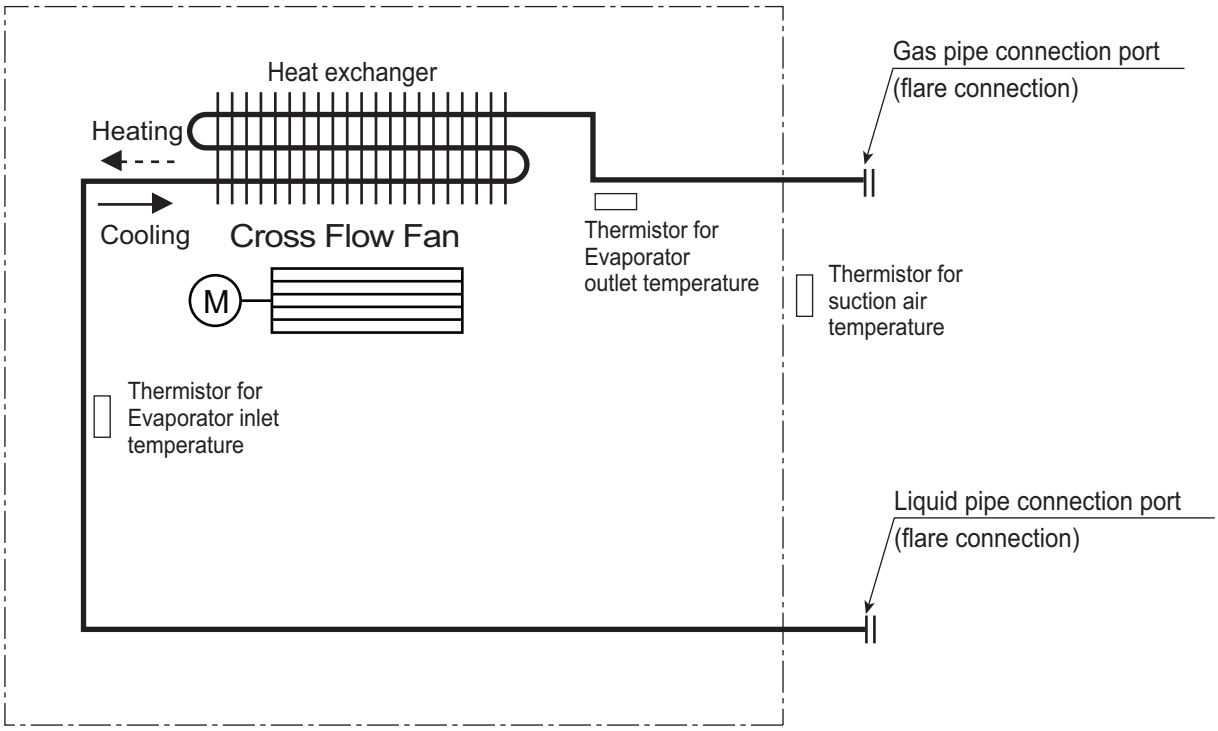


3. Dimensions

◆ Panel Name : PT-TPHG0



4. Piping diagrams



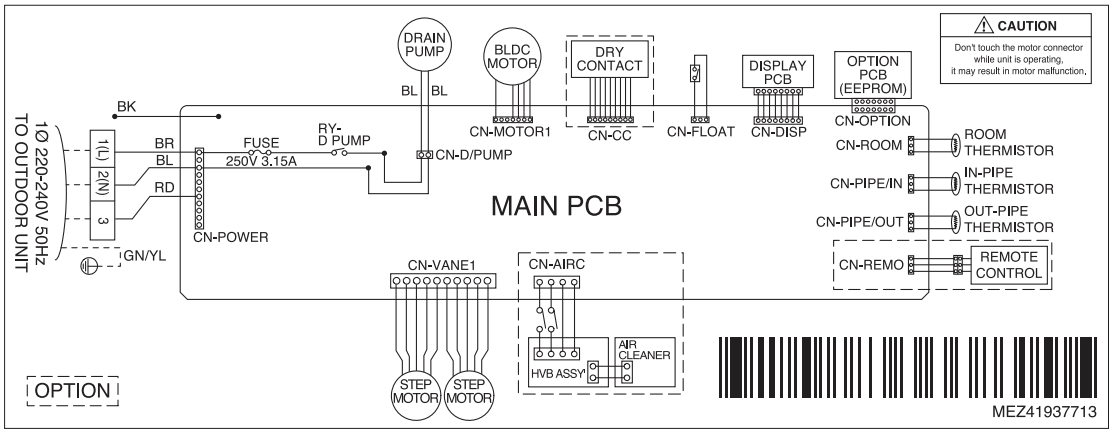
Note

- Heating does not apply to the AMNC/AMNQ model.

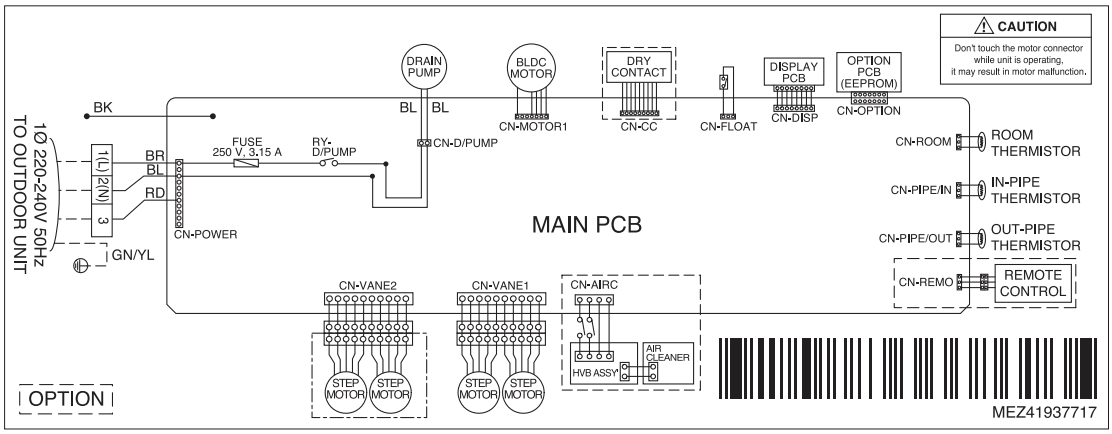
Description	PCB Connector
Thermistor for suction air temperature	CN-ROOM
Thermistor for evaporator inlet temperature	CN-PIPE/IN
Thermistor for evaporator outlet temperature	CN-PIPE/OUT

5. Wiring Diagrams

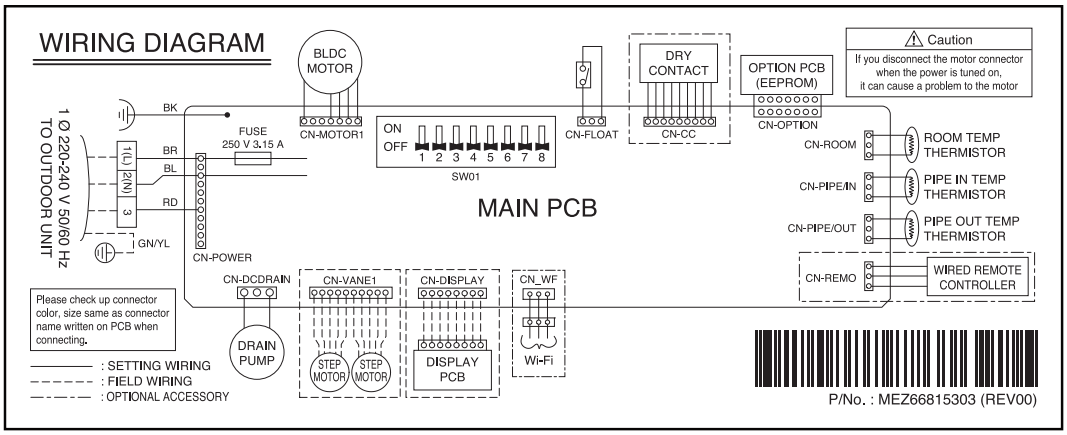
■ Models: AMNC09GTUA0, AMNC12GTUA0



■ Models: AMNC18GTTA0, AMNC24GTTA0



■ Models: AMNQ**GT*A0, AMNW**GT*A0



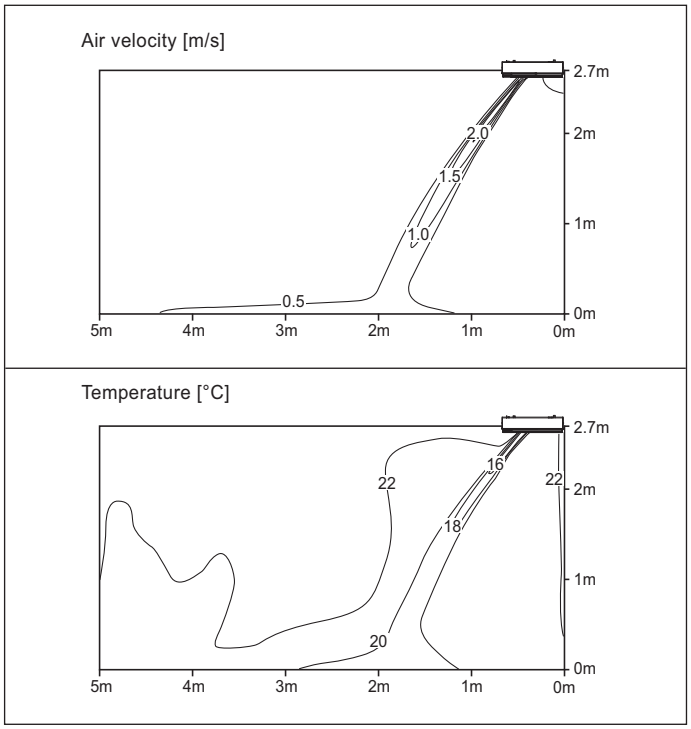
6. Air flow and temperature distributions (reference data)

6.1 Cooling Only

■ Model : AMNC09GTUA0, AMNC12GTUA0, AMNQ09GTUA0, AMNQ12GTUA0

Cooling

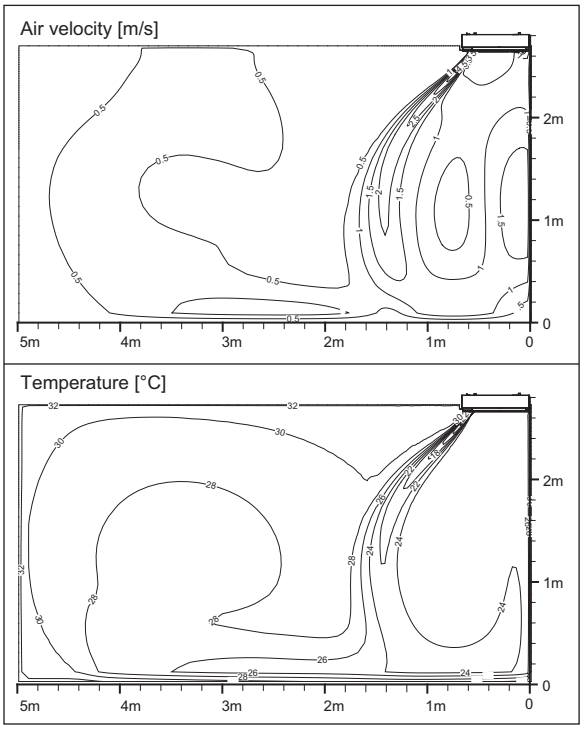
Discharge angle: 50°



■ Model : AMNC18GTTA0, AMNC24GTTA0, AMNQ18GTTA0, AMNQ24GTTA0

Cooling

Discharge angle: 50°



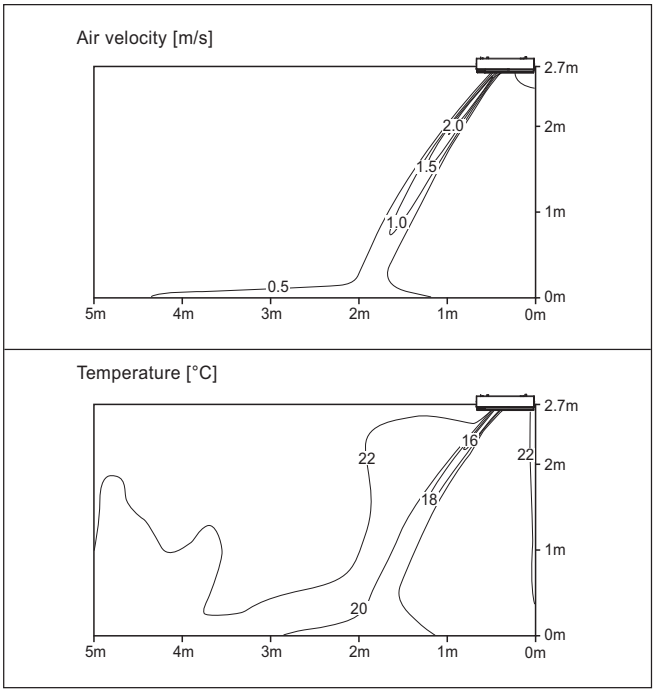
6. Air flow and temperature distributions (reference data)

6.2 Heat Pump

■ Model : AMNW09GTUA0

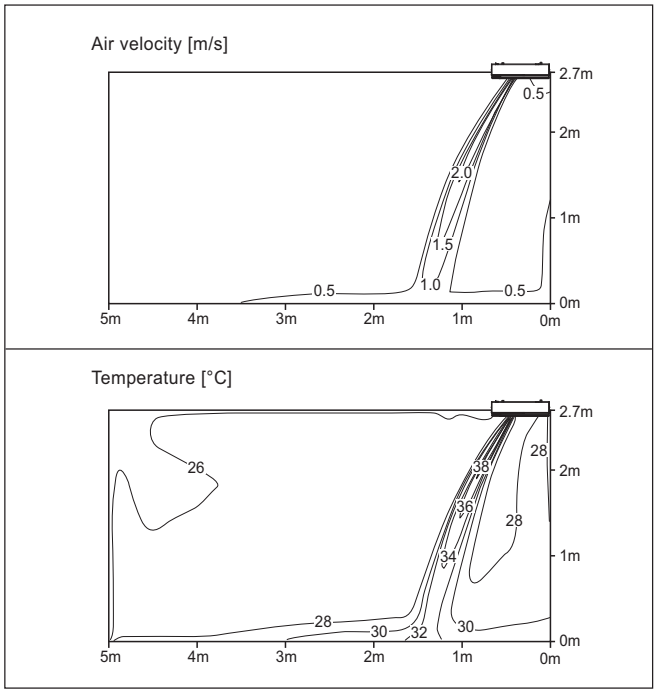
Cooling

Discharge angle: 50°



Heating

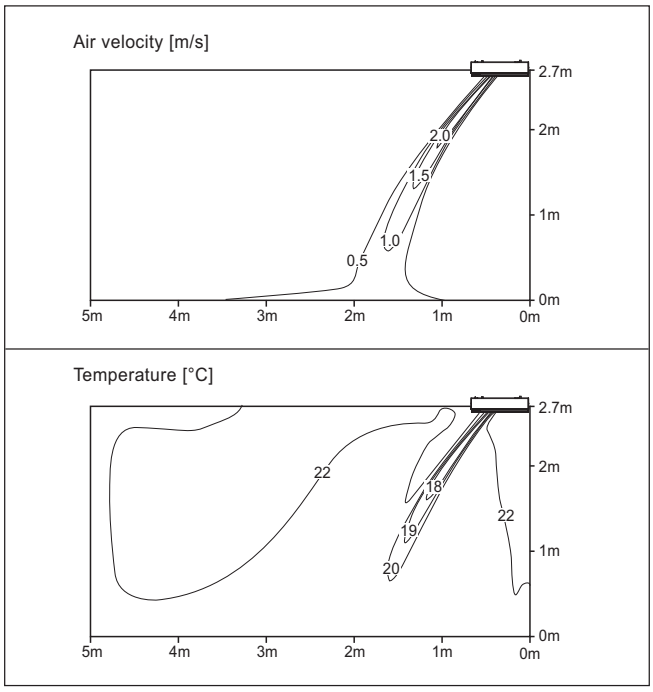
Discharge angle: 60°



■ Model : AMNW12GTUA0

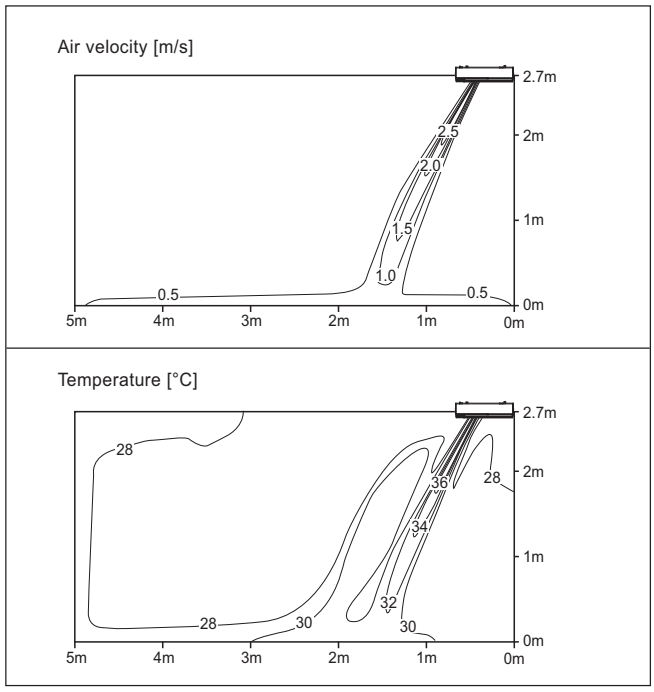
Cooling

Discharge angle: 50°



Heating

Discharge angle: 60°

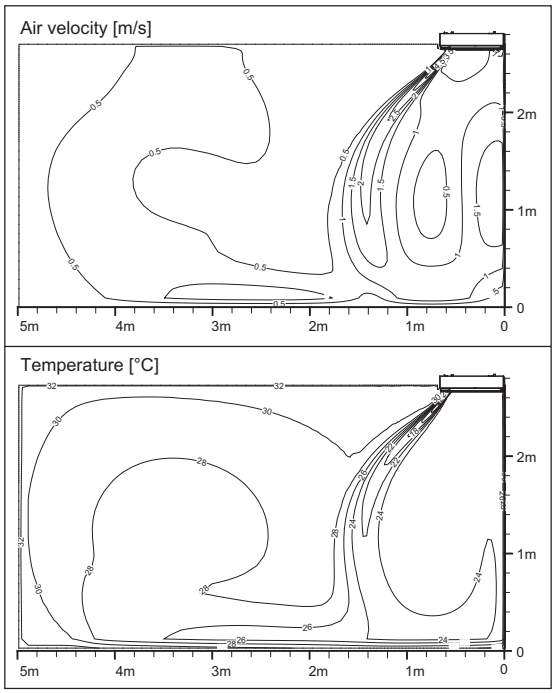


6. Air flow and temperature distributions (reference data)

■ Model : AMNW18GTTA0

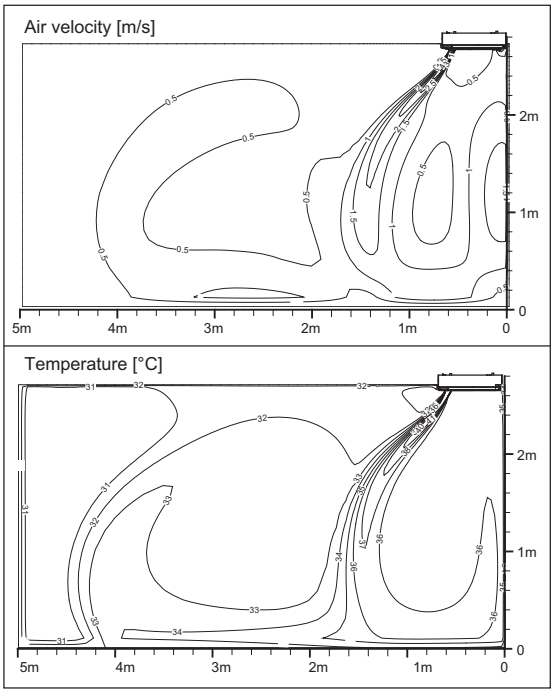
Cooling

Discharge angle: 50°



Heating

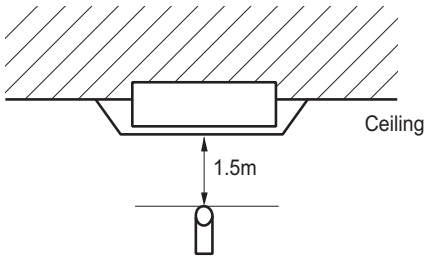
Discharge angle: 60°



7. Sound levels

7.1 Sound pressure level

■ Overall



* Measuring place : Anechoic chamber

Note

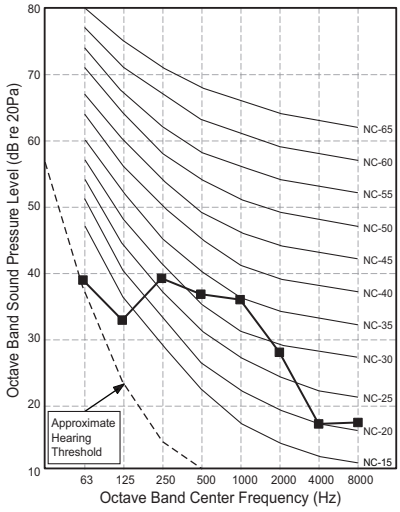
- Sound measured at 1m away from the center of the unit.
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Reference accoustic pressure 0dB=20μPa.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient)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

Model	50Hz, 220-240V		
	Sound pressure Levels [dB(A)]		
	H	M	L
AMNC09GTUA0 / AMNQ09GTUA0	36	34	32
AMNC12GTUA0 / AMNQ12GTUA0	37	36	33
AMNC18GTTA0 / AMNQ18GTTA0	41	39	36
AMNC24GTTA0 / AMNQ24GTTA0	44	41	39

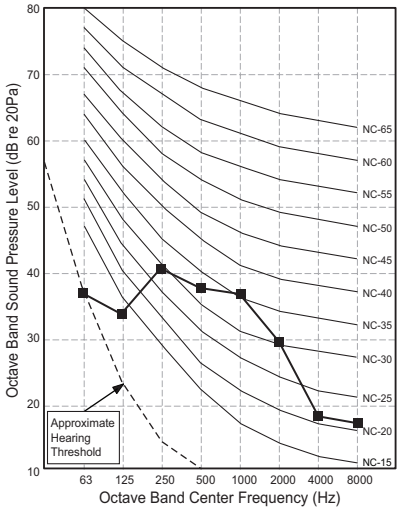
Model	50Hz, 220-240V		
	Sound pressure Levels [dB(A)]		
	H	M	L
AMNW09GTUA0	36	34	32
AMNW12GTUA0	37	36	33
AMNW18GTTA0	45	42	39

7. Sound levels

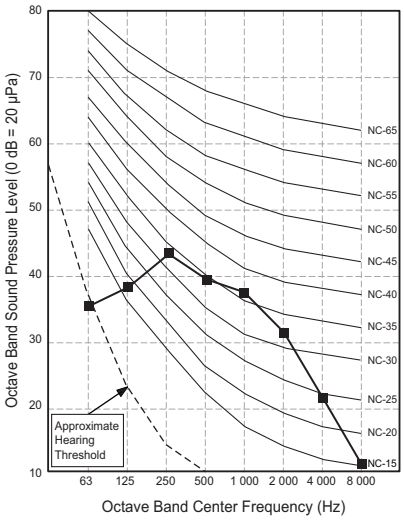
AMNW09GTUA0



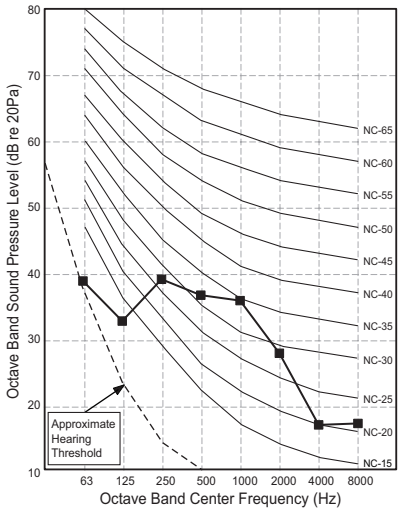
AMNW12GTUA0



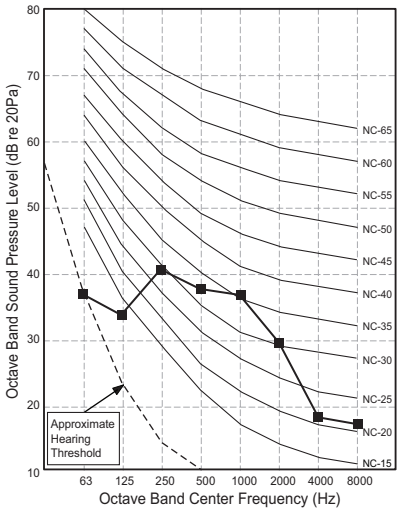
AMNW18GTTA0



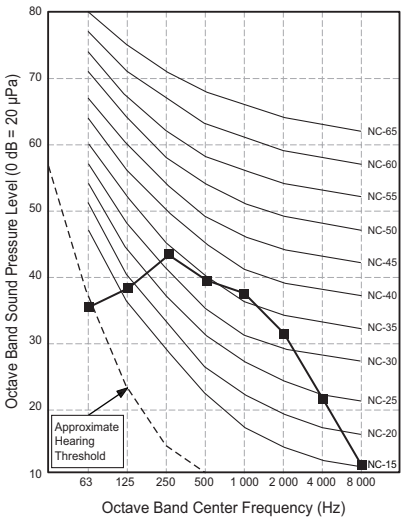
AMNC09GTUA0 / AMNQ09GTUA0



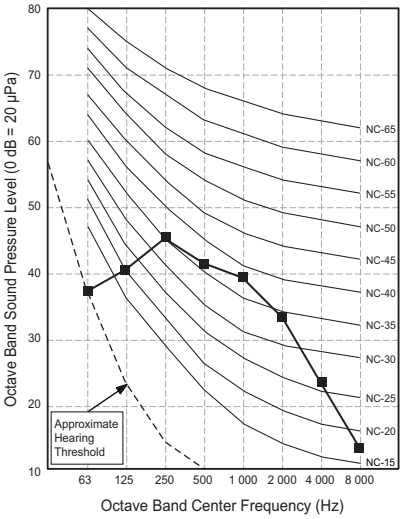
AMNC12GTUA0 / AMNQ12GTUA0



AMNC18GTTA0 / AMNQ18GTTA0

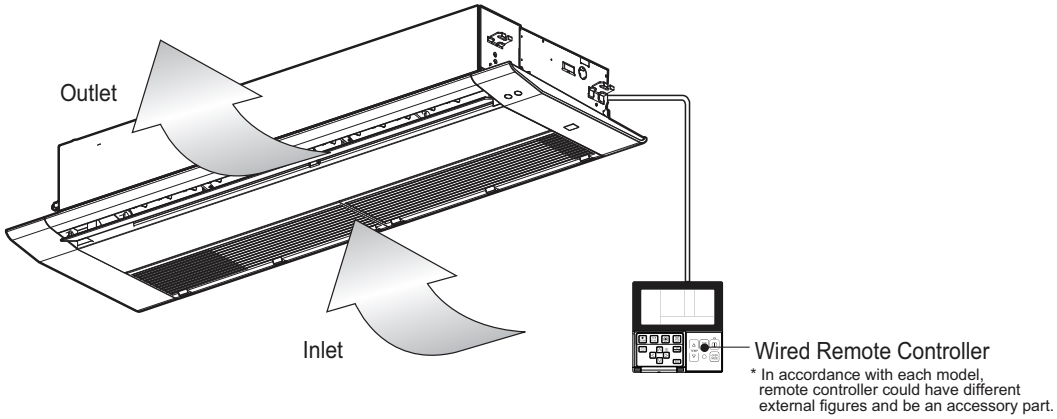


AMNC24GTTA0 / AMNQ24GTTA0



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.)



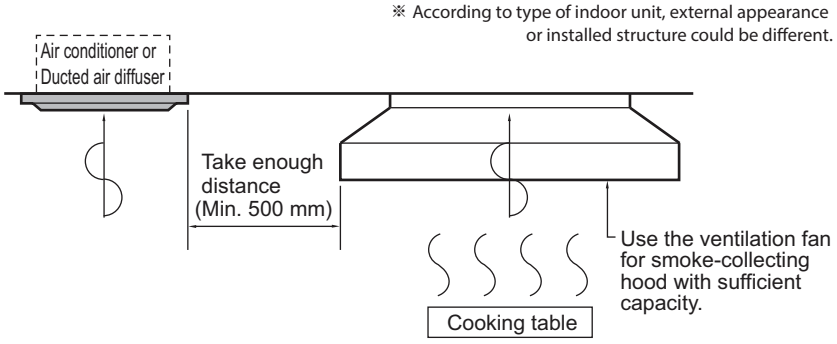
8.1 Selection of the best location

- 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

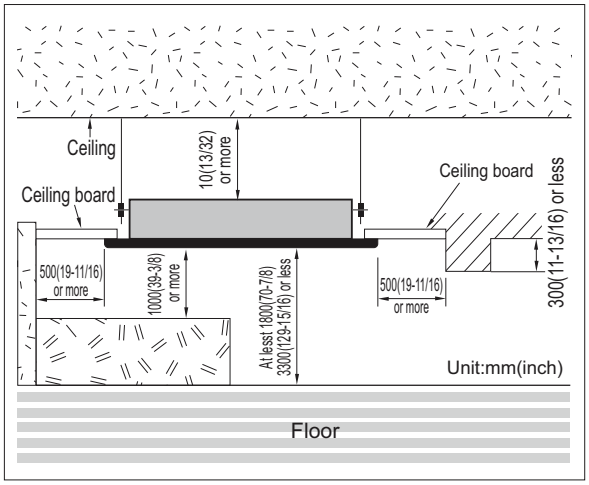
- Make sure that ventilation fan is enough to cover all noxious gases from this place.
- Ensure enough distance from the cooking room to install the air conditioner in such a place where it may not suck oily steam.



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℃ 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.

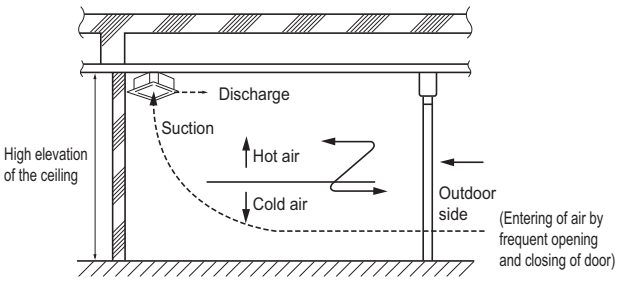


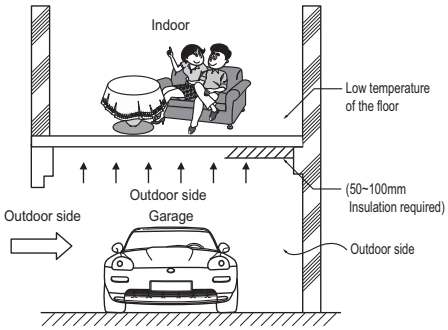
8.2 Precautions regarding cassette indoor unit installation

◆ 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,

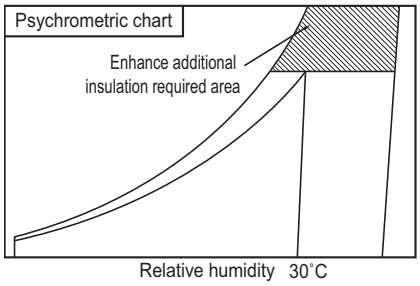
» The duct surface may have some dew drops. So a insulation on the duct is a must.(Insulation material: a glass wool of thickness 25 mm will be appropriate.)

- Countermeasure method

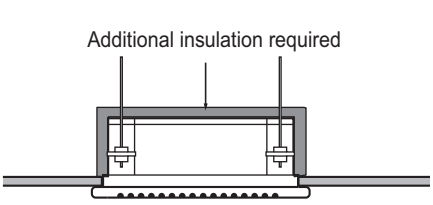
1. Use the carpet on the floor.
   (compared to the tiles the carpet over it will have a 3 degree rise in temperature)
2. Insulating the floor.
3. Floor heating.

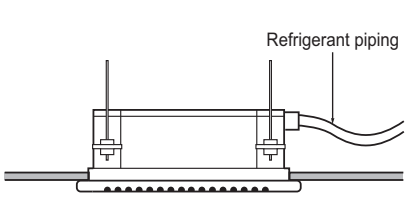
◆ In case of high temperature or humidity between the false ceiling and ceiling slab

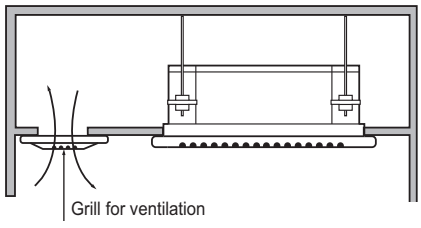
- In case of places having the temperature and humidity of the surrounding water sources(sea, river etc.)
- In case the steam is generated between the false ceiling and the ceiling slab due to some nearby by steam source.
- In case of temperature of 30 degree and humidity above 80%, the units body as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

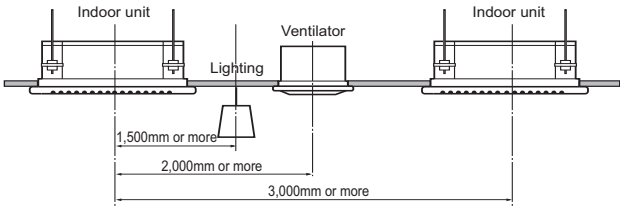






8. Installation

◆ In case of multiple indoor cassette units (recommended)



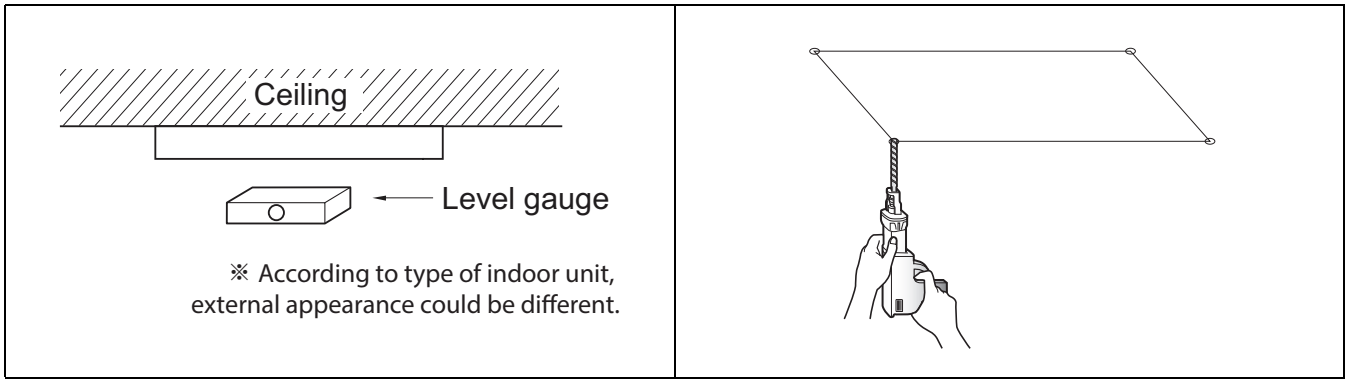
※ According to type of indoor unit, external appearance could be different.

8. Installation

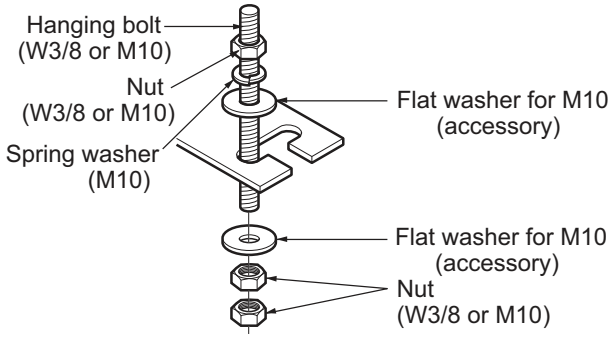
8.3 Ceiling opening dimensions and hanging bolt location

⚠ CAUTION

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



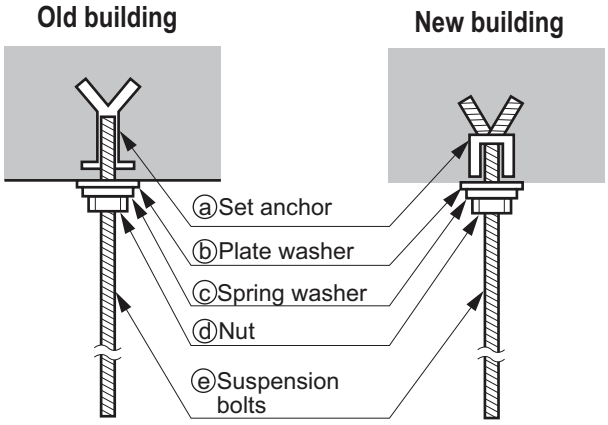
1. The dimensions of the paper model for installation are the same as those of the ceiling opening dimensions.
2. Select and mark the position for fixing bolts and piping hole.
3. Decide the position for fixing bolts slightly tilted to the drain direction after considering the direction of drain hose.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



- 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

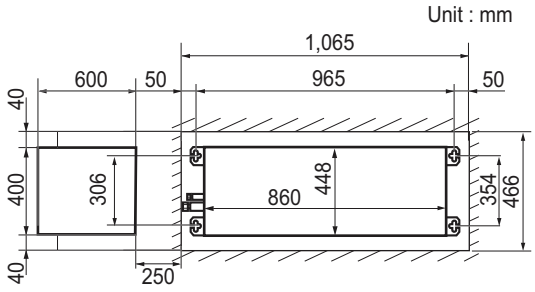
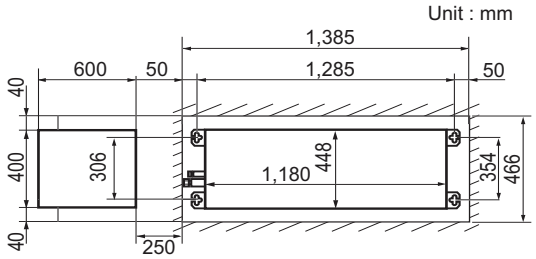
⚠ CAUTION

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

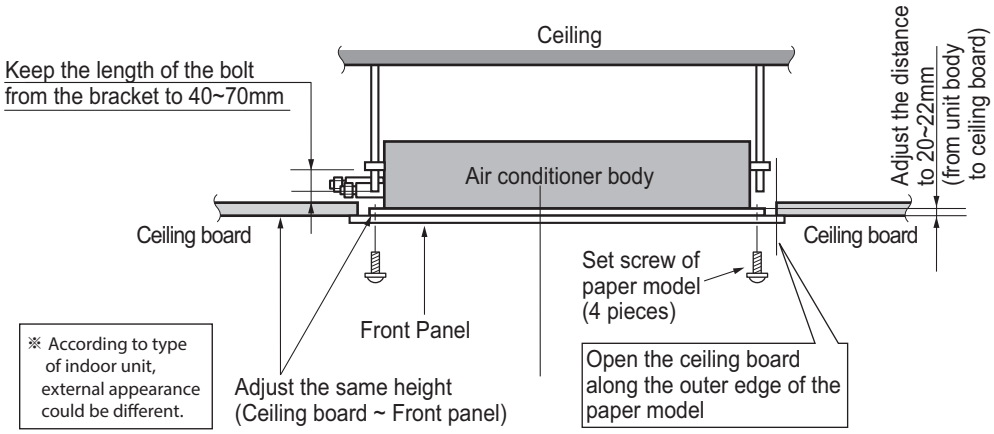


8. Installation

◆ Ceiling opening and Hanging Bolt dimension

TU Chassis	TT Chassis
	

◆ Installation Structure guide



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 ind vidually 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 0.75mm^2 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

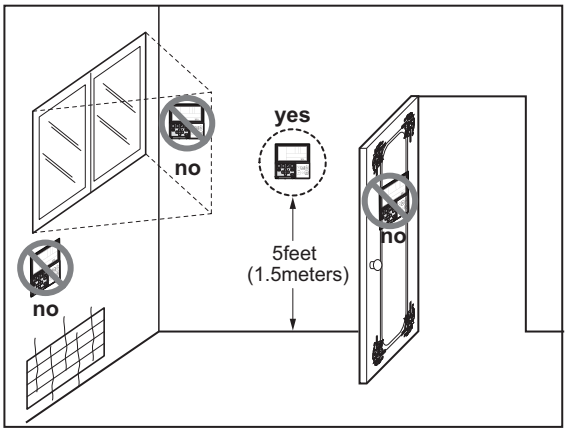
⚠ WARNING

- 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.



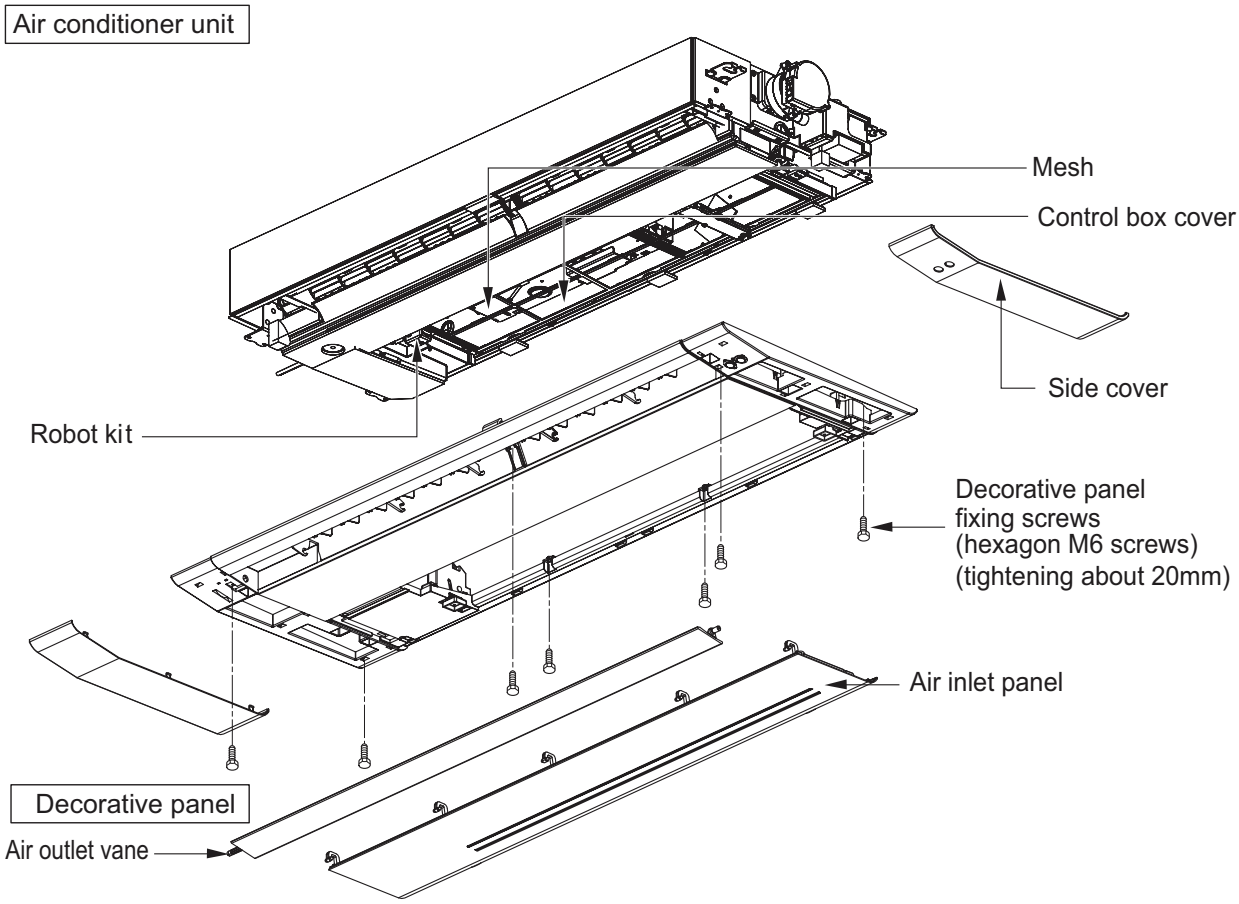
- **Do not install the remote controller where it can be affected by :**
  - Drafts, or dead spots behind doors and in corners.
  - Hot or cold air from ducts.
  - Radiant heat from sun or appliances.
  - Concealed pipes and chimneys.
  - Uncontrolled areas such as an outside wall behind the remote controller.
  - 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.**

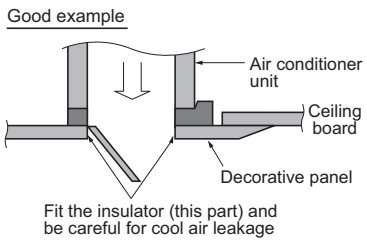
1. Open the air outlet vane, and extract side covers.
2. Remove the air inlet panel from the decoration panel.
3. Hook decoration panel to indoor unit, using hooks attached at the backside of both side of decoration panel.
4. Arrange wires not to get caught between decoration panel and indoor unit.
5. 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.



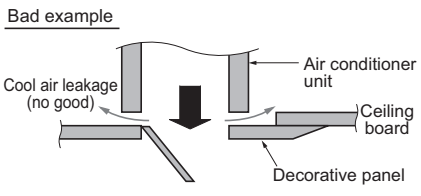
⚠ CAUTION

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

Good case



Bad case

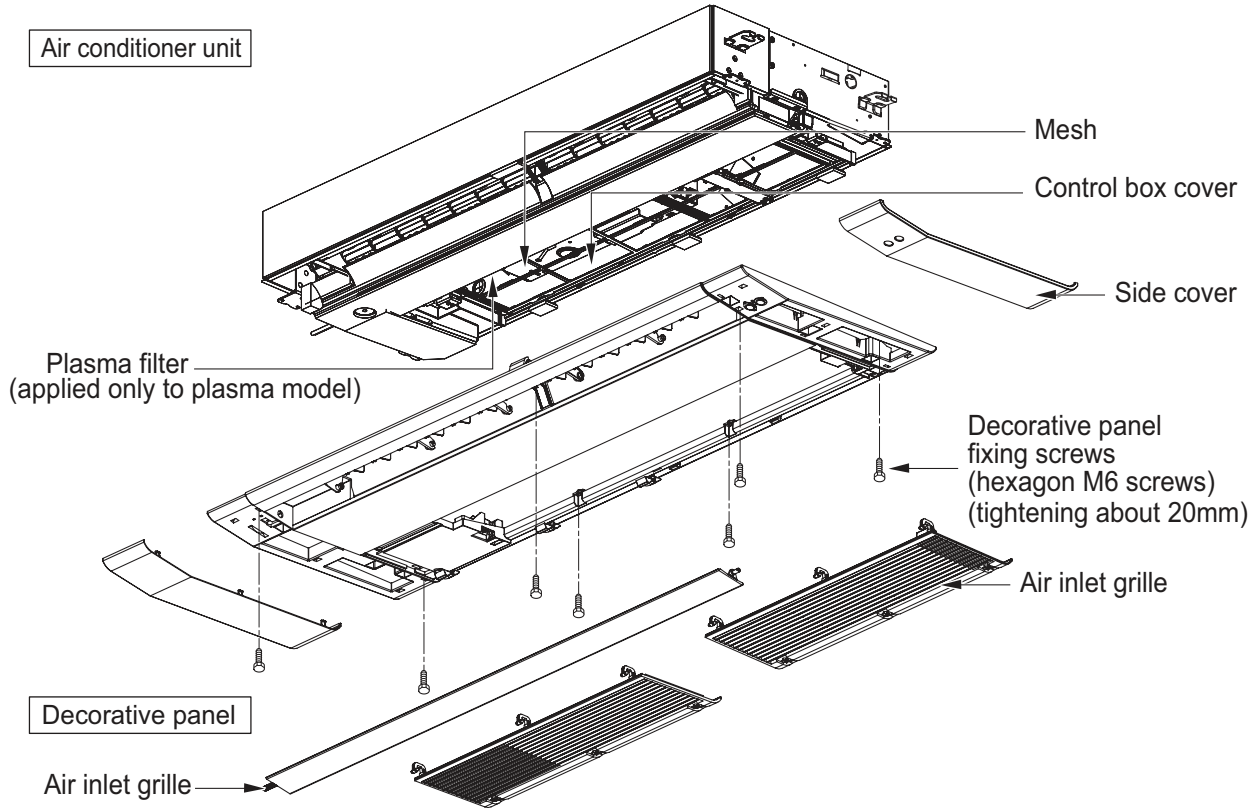


8. Installation

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.**

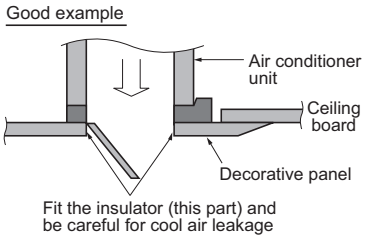
1. Open the air outlet vane, and extract side covers.
2. Remove the air inlet panel from the decoration panel.
3. Hook decoration panel to indoor unit, using hooks attached at the backside of both side of decoration panel.
4. Arrange wires not to get caught between decoration panel and indoor unit.
5. 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.



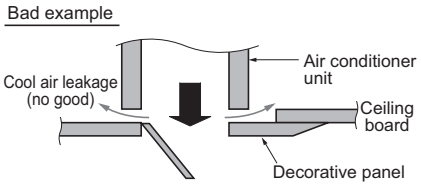
⚠ CAUTION

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

Good case



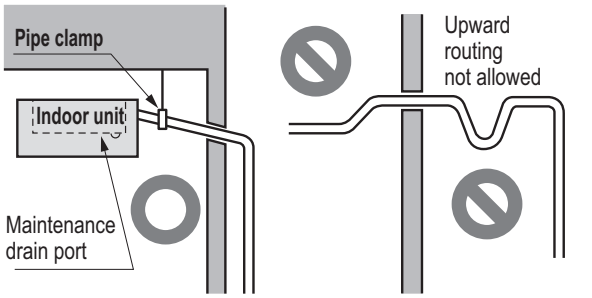
Bad case



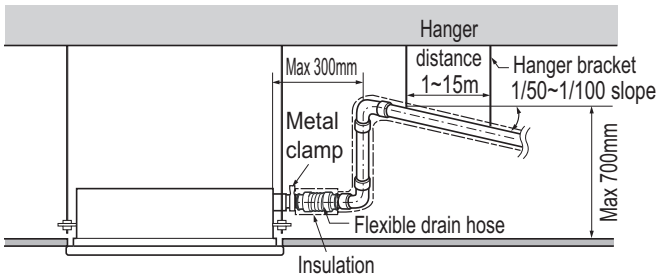
8.7 Indoor Unit Drain Piping

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.

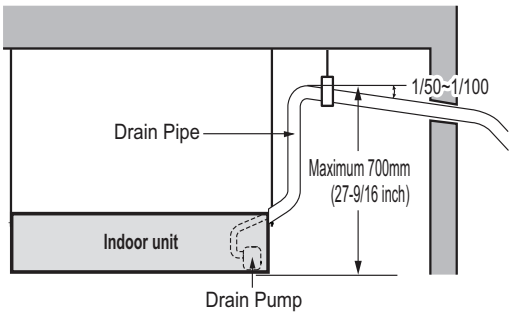


※ According to type of indoor unit, external appearance could be different.

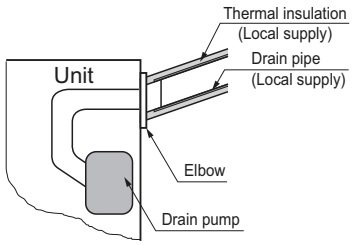


※ According to type of indoor unit, external appearance could be different.

- 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.

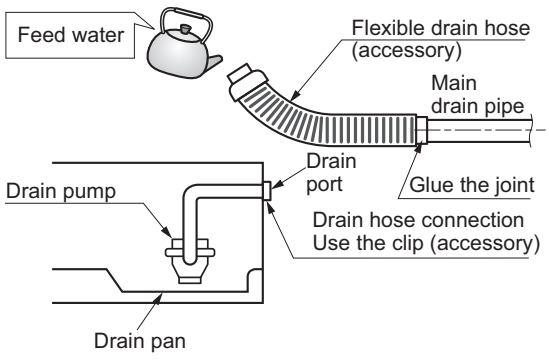


8.7.2 Method of Drainage test

◆ Drainage test of indoor unit with drain pump

Use the following procedure to test the drain pump operation.

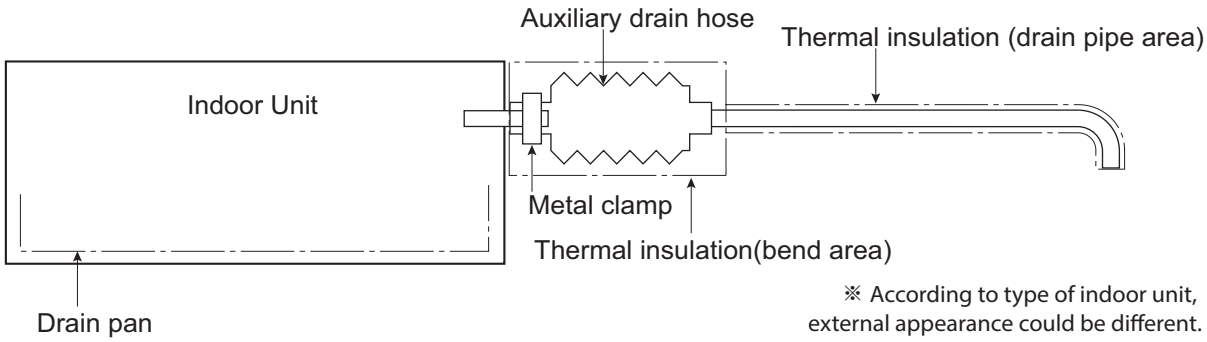
1. Connect the main drain pipe to the exterior and leave it provisionally until the test comes to an end.
2. Feed water to the flexible drain hose and check the piping for leakage.
3. Be sure to check the drain pump for normal operating and noise when electrical wiring is complete.
4. When the test is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

8.7.3 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.



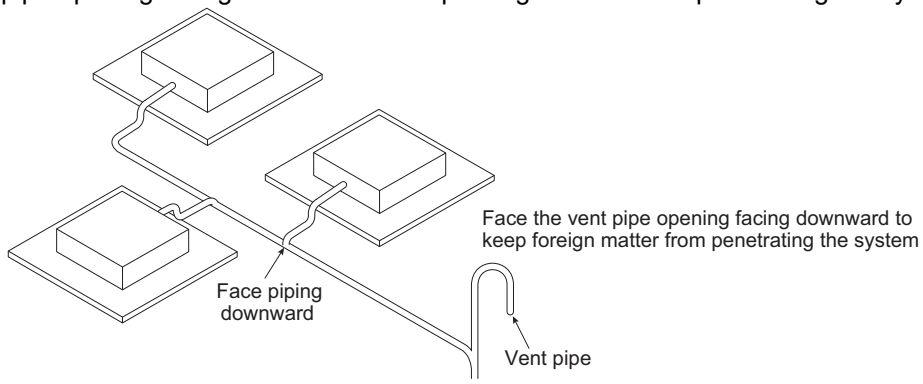
⚠ CAUTION

– 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. Specification
3. Dimensions
4. Piping Diagrams
5. Wiring Diagrams
6. Air flow and temperature distributions (reference data)
7. Sound levels
8. Installation

1. List of functions

◆ Basic functions of Indoor Unit

Category	Functions	AMNC12GTRA2 AMNC18GTQA2	AMNC24GTPA2
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 / 5 / -
	Chaos wind(auto wind)	O	O
	Jet cool/heat	O / X	O / X
	Swirl wind	O	O
Air purification	Triple filter (Deodorization)	X	X
	Plasma air purifier (Ionizer)	PTPKQ0	PTPKM0
	Allergy Safe filter	X	X
	Pre-Filter	O	O
Installation	Drain pump	O	O
	E.S.P. control*	X	X
	Electric heater	X	X
	High ceiling operation*	O	O
Reliability	Hot start	X	X
	Self diagnosis	O	O
	Dry Operation	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 (7hr)	O (7hr)
	Timer(on/off)	O	O
	Timer(weekly)*	O	O
	Two thermistor control*	O	O
	Auto Elevation Grille	X	X
Special Functions	Wi-Fi	X	X
	Humidity Control	X	X
Wireless remote controller Supply (included with product)		O**	O**
Wired remote controller Supply (included with product)		X	X
Network Solution(LGAP)		O	O

Note

1. O : Applied, X : Not applied
   Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
   Accessory line-ups varies by region, so check your local catalogue or local sales material.
2. Some functions can be limited by remote controller.
3. In case of 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

◆ Accessory Compatibility List

Category		Product	Remark	AMNC12GTRA2 AMNC18GTQA2 AMNC24GTPA2
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	X
		PQWRCQ0FDB	Cooling Only	O
		PWLSSB21H	Heat Pump	X
		PWLSSB21C	Cooling Only	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		PQRCHCA0Q(W)	for Hotel	O
	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	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	X
		PDRYCB300	For 3rd Party Thermostat	X
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	X
		PDRYCB500	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				AMNC12GTRA2	AMNC18GTQA2
Power Supply			V, Ø, Hz	220-240, 1, 50/60	220-240, 1, 50/60
Power Input	Min / Nom / Max		W	-	-
Running Current			A	0.35	0.43
Casing Color			-	-	-
Dimensions	Body	W × H × D	mm	570 × 214 × 570	570 × 256 × 570
		W × H × D	inch	22-7/16 × 8-7/16 × 22-7/16	22-7/16 × 10-3/32 × 22-7/16
Net Weight	Body		kg (lbs)	14.0 (30.9)	15.0 (33.1)
Heat Exchanger	(Row × Column × Fins per inch) × No.		-	(2 × 8 × 18) × 1	(2 × 8 × 19) × 1
	Face Area		m^2 (ft^2)	0.34 (3.61)	0.34 (3.61)
Fan	Type		-	Turbo Fan	Turbo Fan
	Air Flow Rate	H / M / L	m^3/min	9.5 / 8.0 / 6.5	13.0 / 12.0 / 10.0
		H / M / L	ft^3/min	336 / 283 / 230	459 / 424 / 353
Fan Motor	Type		-	BLDC	BLDC
	Output		W × No.	43 × 1	43 × 1
Sound Pressure Level		H / M / L	dB(A)	35 / 31 / 27	40 / 37 / 34
Sound Power Level		H / M / L	dB(A)	-	-
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 32.0 / 25.0	Ø 32.0 / 25.0
Safety Devices			-	Fuse	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Power and Communication Cable (included Earth)			No. × mm^2 (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 × H × D	mm	700 × 22 × 700	700 × 22 × 700
		W × H × 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

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

• * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

2. Specifications

Model Name				AMNC24GTPA2
Power Supply			V, Ø, Hz	220-240, 1, 50/60
Power Input	Min / Nom / Max		W	-
Running Current			A	0.60
Casing Color			-	-
Dimensions	Body	W × H × D	mm	840 × 204 × 840
		W × H × D	inch	33-1/16 × 8-1/32 × 33-1/16
Net Weight	Body		kg (lbs)	21.0 (46.3)
Heat Exchanger	(Row × Column × Fins per inch) × No.		-	(3 × 18 × 22) × 1
	Face Area		m^2 (ft^2)	1.134 (12.2)
Fan	Type		-	Turbo Fan
	Air Flow Rate	H / M / L	m^3/min	17.0 / 15.0 / 13.0
		H / M / L	ft^3/min	600 / 530 / 459
Fan Motor	Type		-	BLDC
	Output		W × No.	60 × 1
Sound Pressure Level		H / M / L	dB(A)	39 / 37 / 34
Sound Power Level		H / M / L	dB(A)	-
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 (AWG)	4C × 0.75 (18)
Decoration Panel	Model Name		-	PT-UMC(1)
	Casing Color		-	Morning Fog
	Dimensions	W × H × D	mm	950 × 25 × 950
		W × H × D	inch	37-13/32 x 31/32 x 37-13/32
	Net weight		kg (lbs)	5.0 (11.0)

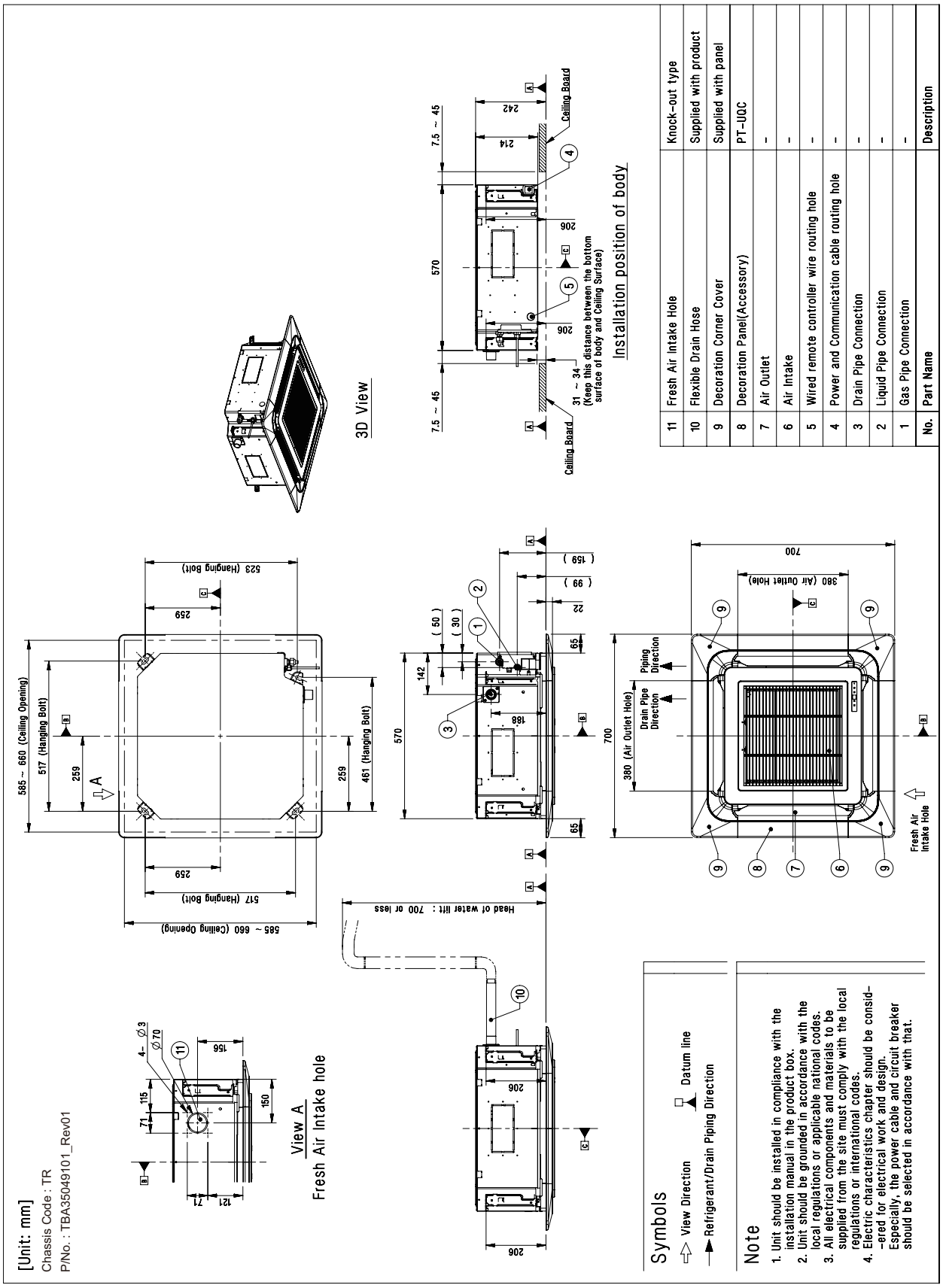
Note

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 Noise Measuring chamber accordance with standard. 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.

- * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

3. Dimensions

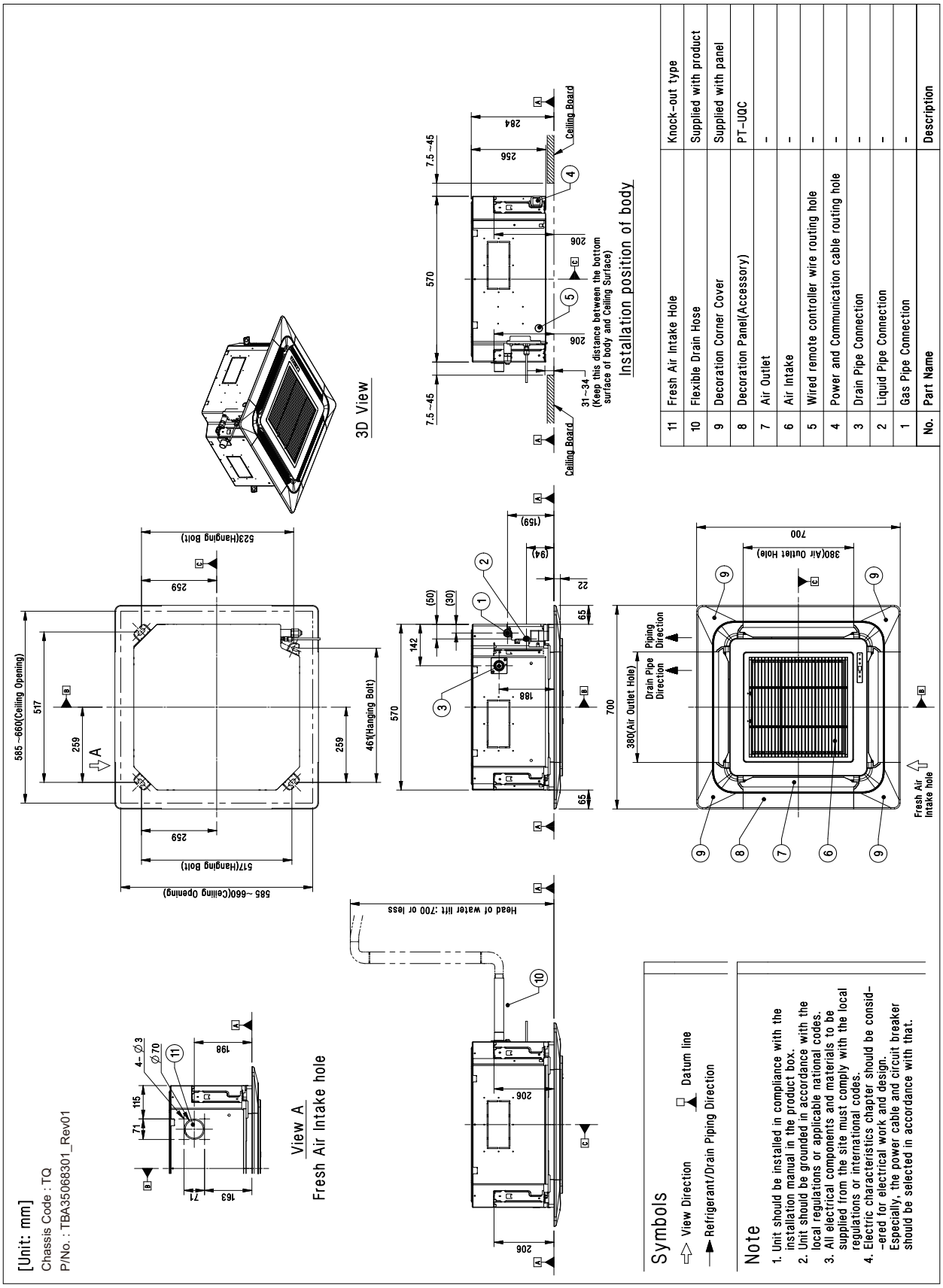
AMNC12GTRA2



No.	Part Name	Description
11	Fresh Air Intake Hole	Knock-out type
10	Flexible Drain Hose	Supplied with product
9	Decoration Corner Cover	Supplied with panel
8	Decoration Panel(Accessory)	PT-UQC
7	Air Outlet	-
6	Air Intake	-
5	Wired remote controller wire routing hole	-
4	Power and Communication cable routing hole	-
3	Drain Pipe Connection	-
2	Liquid Pipe Connection	-
1	Gas Pipe Connection	-

3. Dimensions

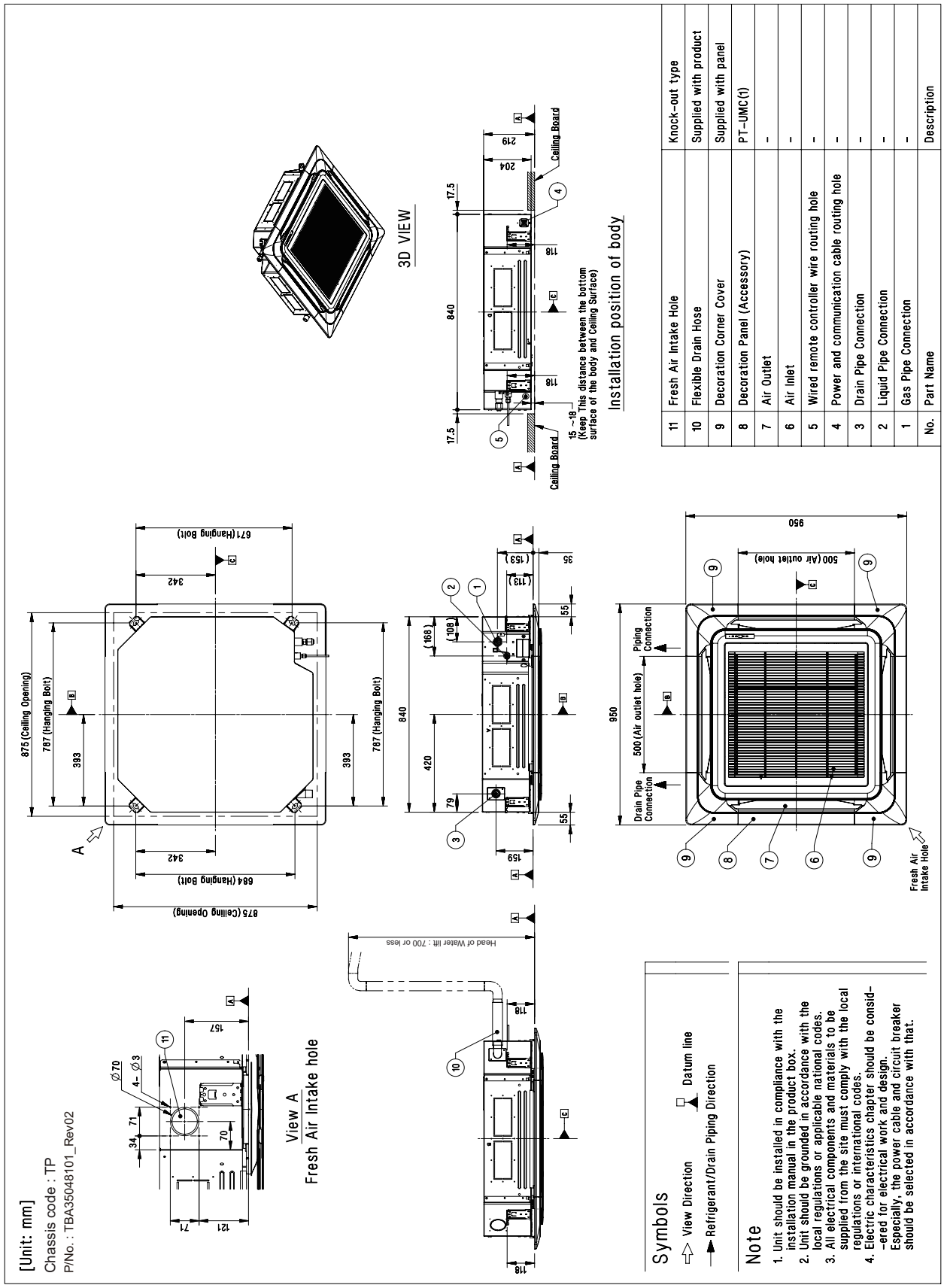
AMNC18GTQA2



No.	Part Name	Description
11	Fresh Air Intake Hole	Knock-out type
10	Flexible Drain Hose	Supplied with product
9	Decoration Corner Cover	Supplied with panel
8	Decoration Panel(Accessory)	PT-UQC
7	Air Outlet	-
6	Air Intake	-
5	Wired remote controller wire routing hole	-
4	Power and Communication cable routing hole	-
3	Drain Pipe Connection	-
2	Liquid Pipe Connection	-
1	Gas Pipe Connection	-

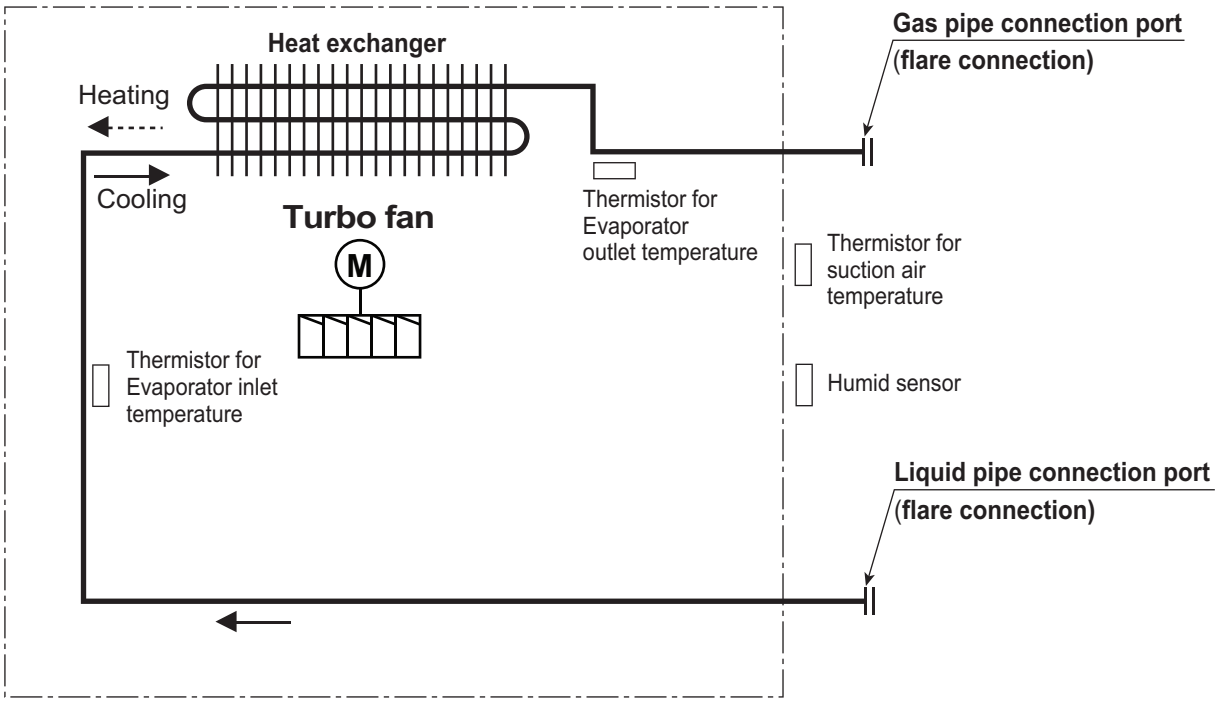
3. Dimensions

AMNC24GTPA2



No.	Part Name	Description
11	Fresh Air Intake Hole	Knock-out type
10	Flexible Drain Hose	Supplied with product
9	Decoration Corner Cover	Supplied with panel
8	Decoration Panel (Accessory)	PT-UMC(1)
7	Air Outlet	-
6	Air Inlet	-
5	Wired remote controller wire routing hole	-
4	Power and communication cable routing hole	-
3	Drain Pipe Connection	-
2	Liquid Pipe Connection	-
1	Gas Pipe Connection	-

4. Piping diagrams



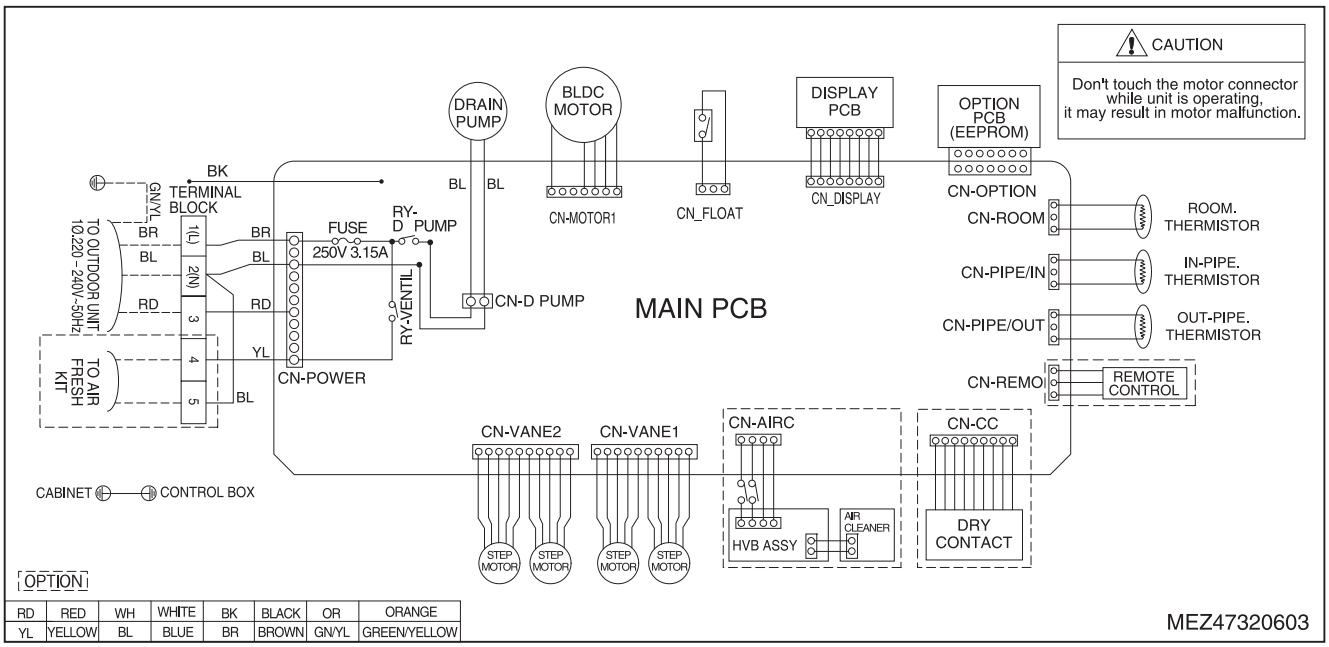
Note

- Heating does not apply to the AMNC model.

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

5. Wiring Diagrams

■ Models: TR/TQ/TP

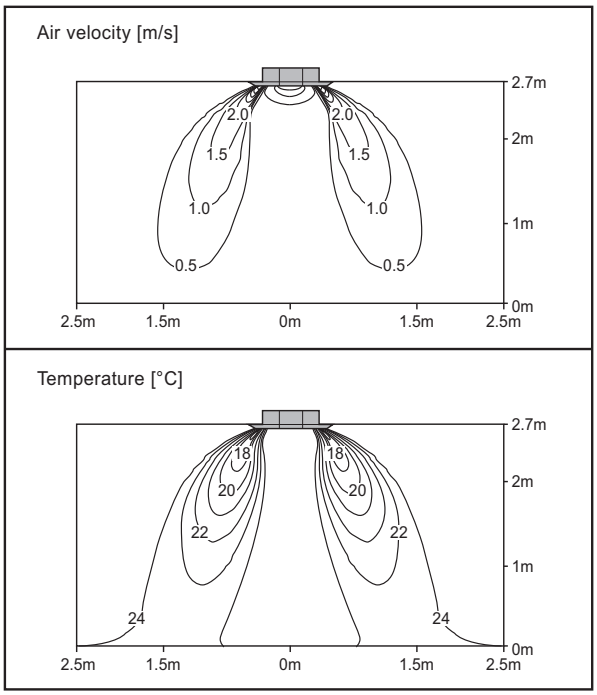


6. Air flow and temperature distributions (reference data)

■ Model : AMNC12GTRA2

Cooling

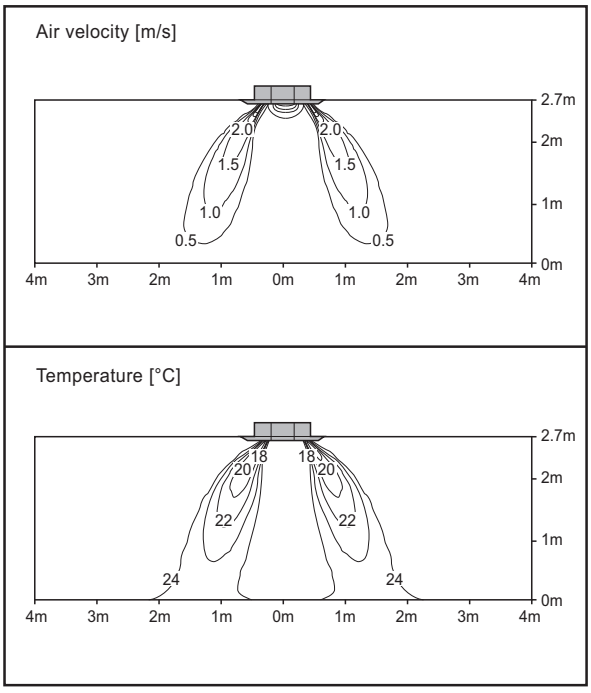
Discharge angle: 40°



■ Model : AMNC18GTQA2

Cooling

Discharge angle: 40°

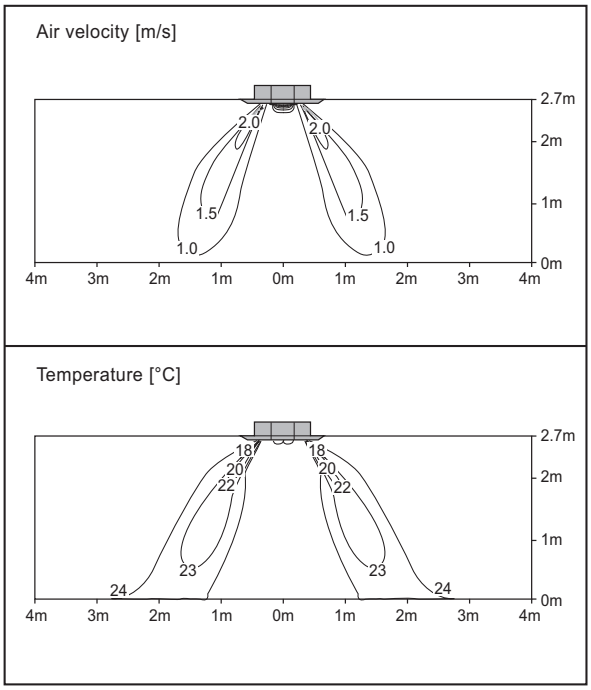


6. Air flow and temperature distributions (reference data)

■ Model : AMNC24GTPA2

Cooling

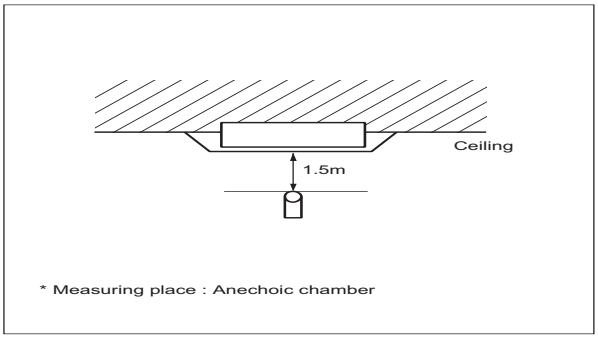
Discharge angle: 40°



7. Sound levels

7.1 Sound pressure level

■ Overall

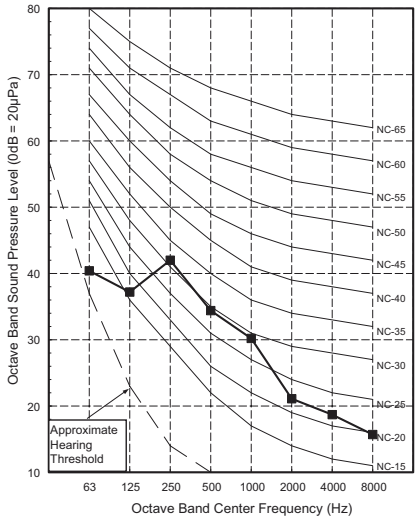


Note

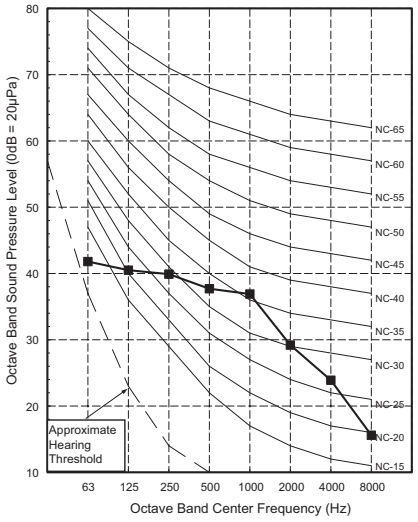
1. Sound measured at some distance away from the center of the unit.
2. Data is valid at free field condition.
3. Reference accoustic pressure 0dB = 20μPa.
4. Data is valid at nominal operation condition.
   Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature,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

Model	50Hz, 220-240V		
	Sound pressure Levels [dB(A)]		
	H	M	L
AMNC12GTRA2	35	31	27
AMNC18GTQA2	40	37	34
AMNC24GTPA2	39	37	34

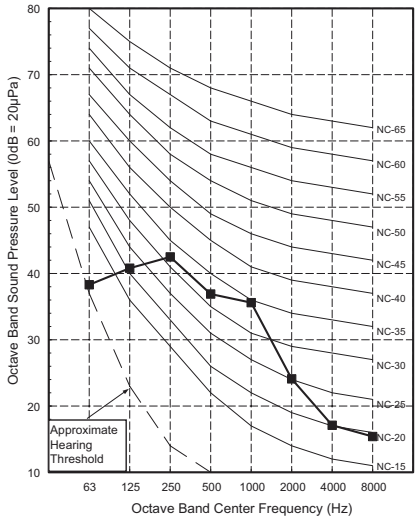
AMNC12GTRA2



AMNC18GTQA2

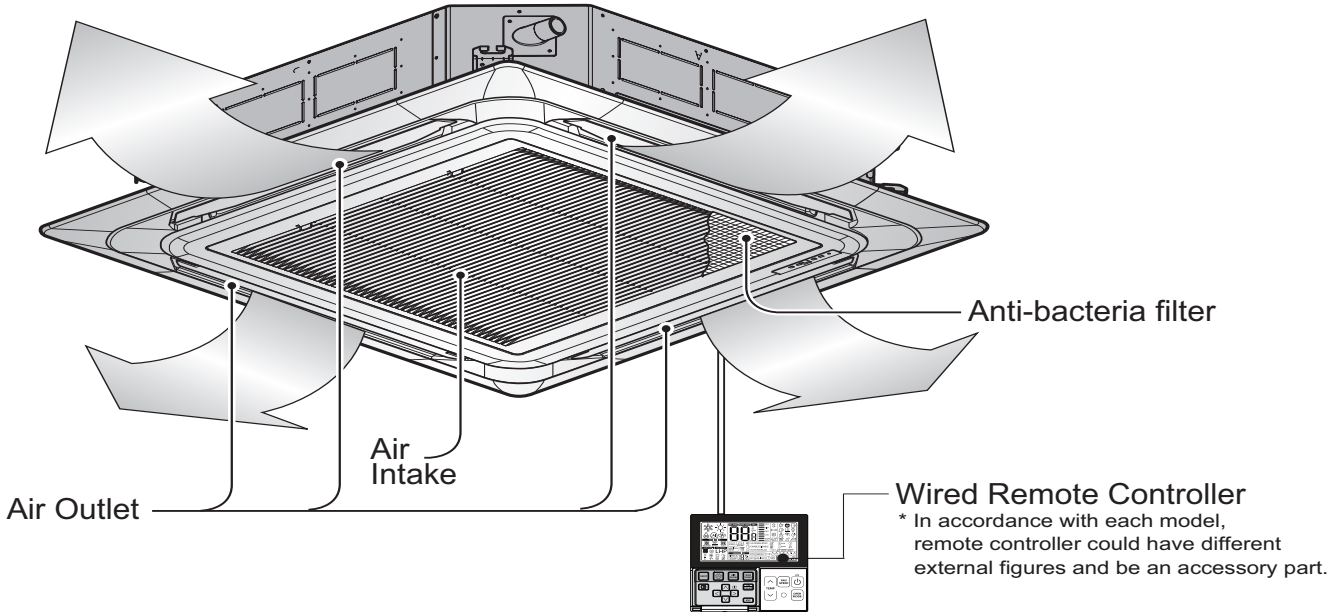


AMNC24GTPA2



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.)



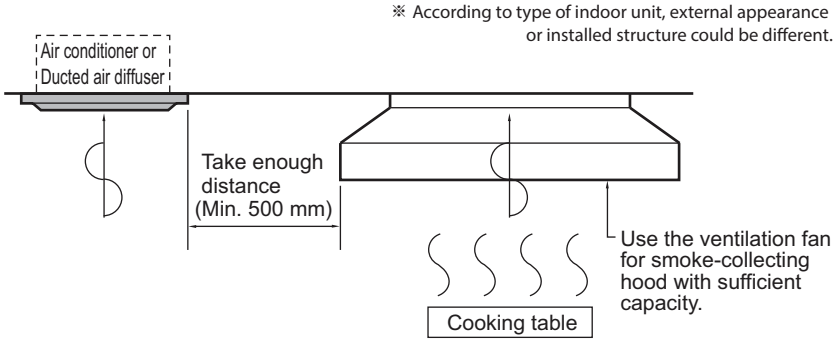
8.1 Selection of the best location

- 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.



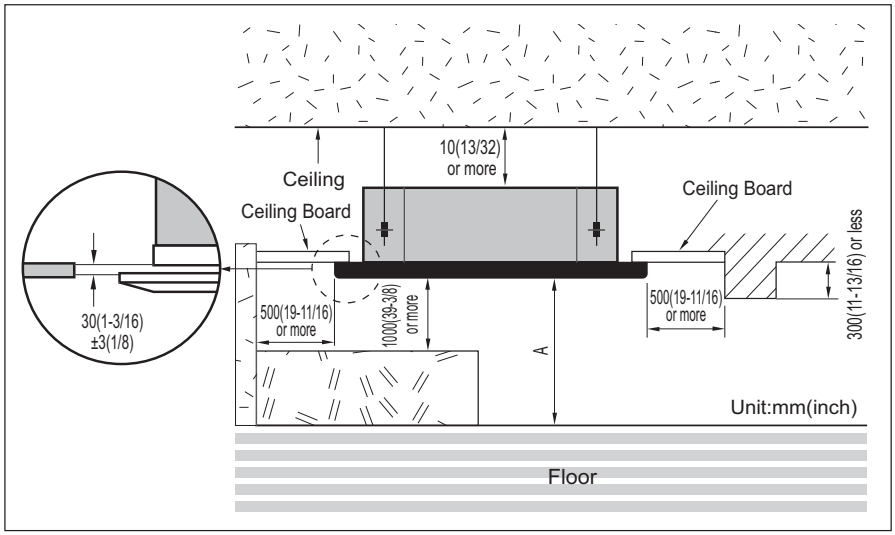
2. Avoid installing air conditioner in such places where cooking oil or iron powder is generated.
3. Avoid places where inflammable gas is generated.
4. Avoid place where noxious gas is generated.
5. Avoid places near high frequency generators.

⚠ CAUTION

- If the temperature rise above 30℃ 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

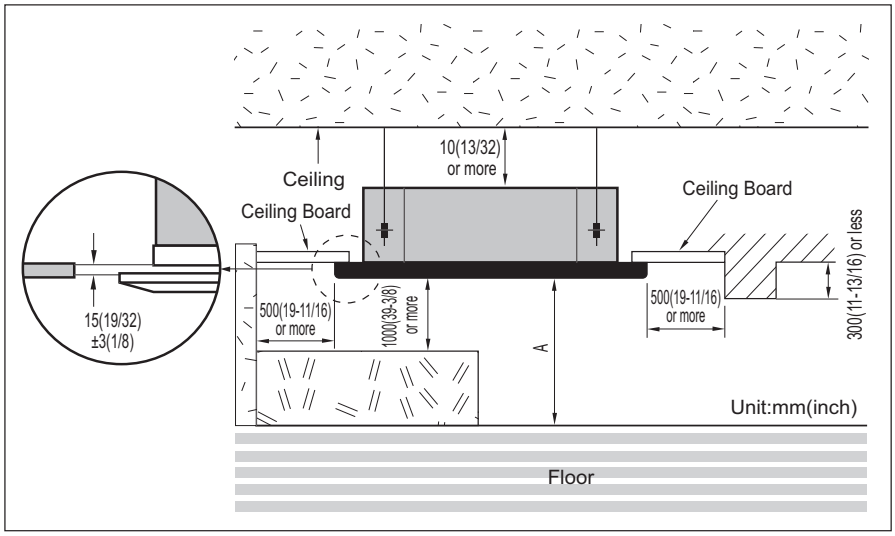
* According to product type, model line up, sales region..etc, applicability of each chassis could be different.



8. Installation

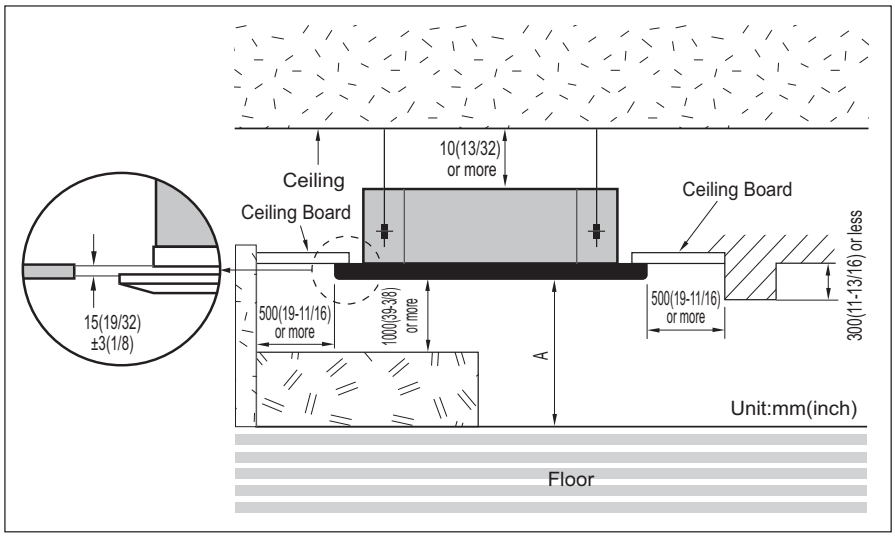
TP Chassis

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



TM/TN Chassis

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

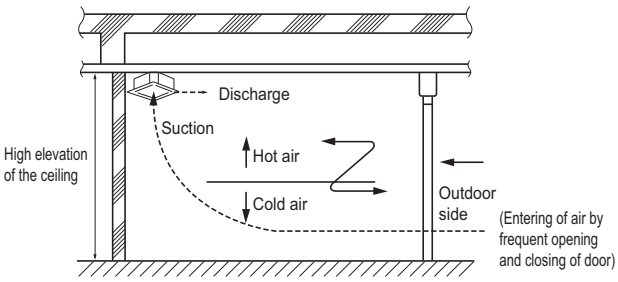


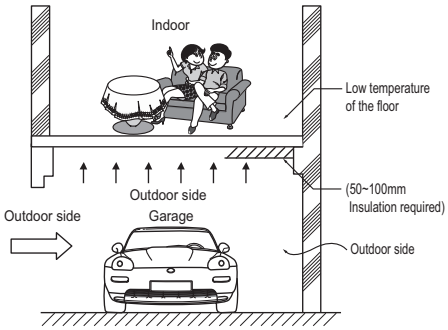
8.2 Precautions regarding cassette indoor unit installation

◆ 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,

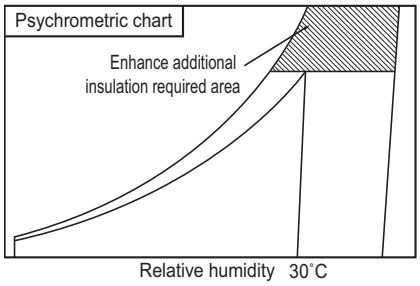
» The duct surface may have some dew drops. So a insulation on the duct is a must.(Insulation material: a glass wool of thickness 25 mm will be appropriate.)

- Countermeasure method

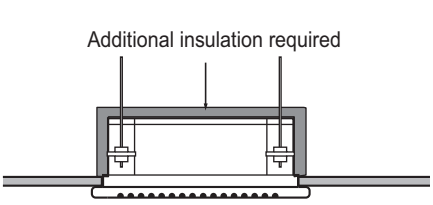
1. Use the carpet on the floor.
   (compared to the tiles the carpet over it will have a 3 degree rise in temperature)
2. Insulating the floor.
3. Floor heating.

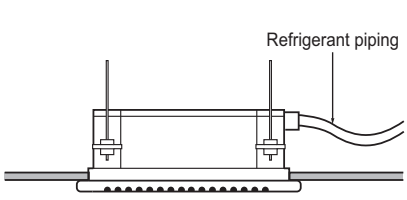
◆ In case of high temperature or humidity between the false ceiling and ceiling slab

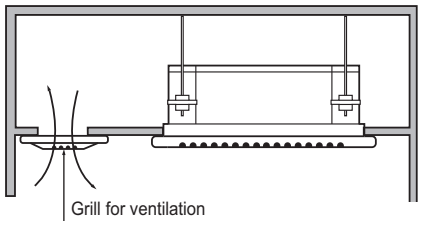
- In case of places having the temperature and humidity of the surrounding water sources(sea, river etc.)
- In case the steam is generated between the false ceiling and the ceiling slab due to some nearby by steam source.
- In case of temperature of 30 degree and humidity above 80%, the units body as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

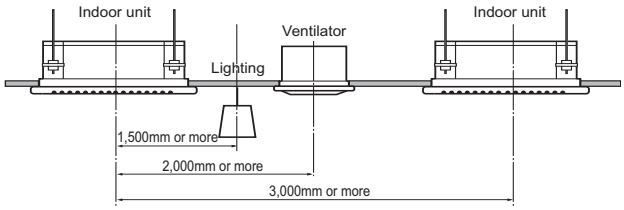






8. Installation

◆ **In case of multiple indoor cassette units (recommended)**

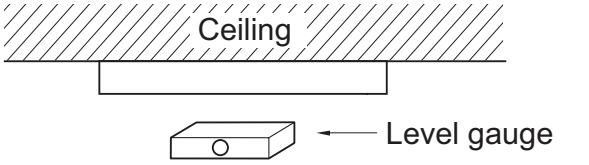


※ According to type of indoor unit, external appearance could be different.

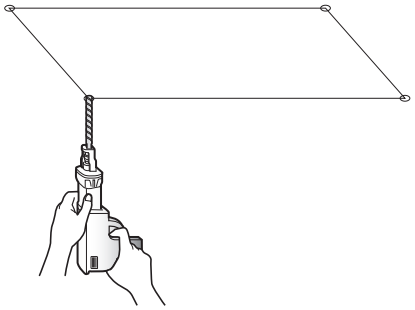
8.3 Ceiling opening dimensions and hanging bolt location

⚠ 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.

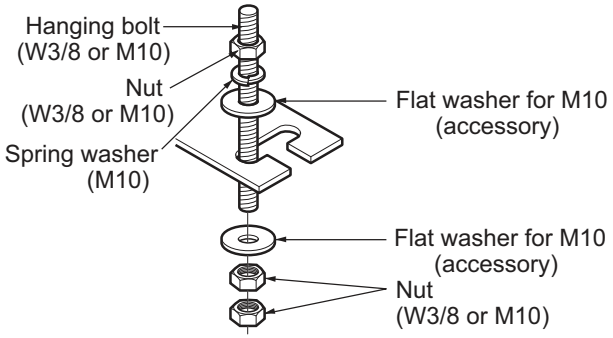


※ According to type of indoor unit, external appearance could be different.



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.

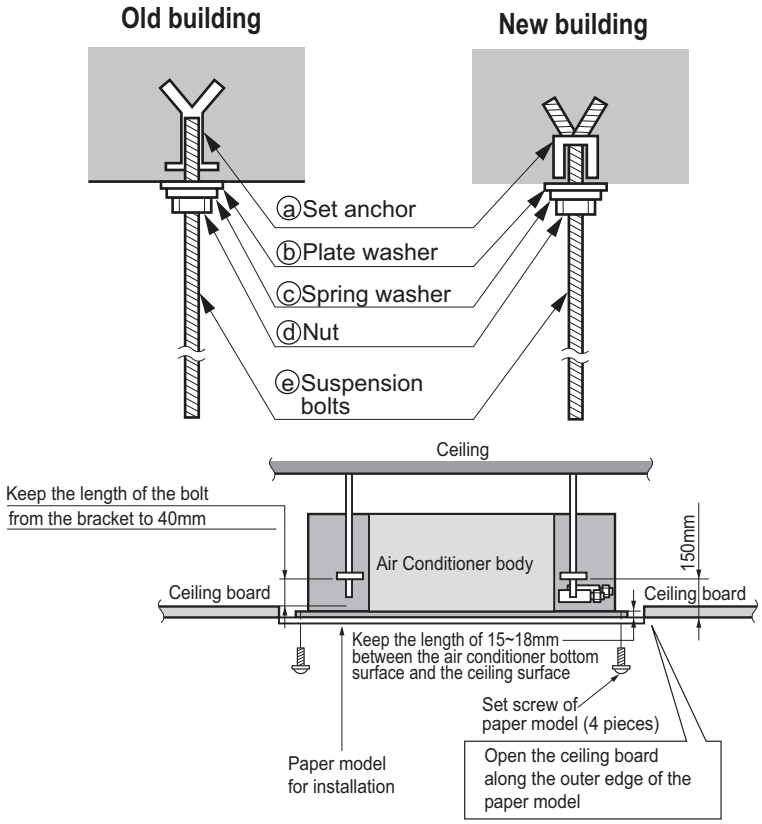
8. Installation

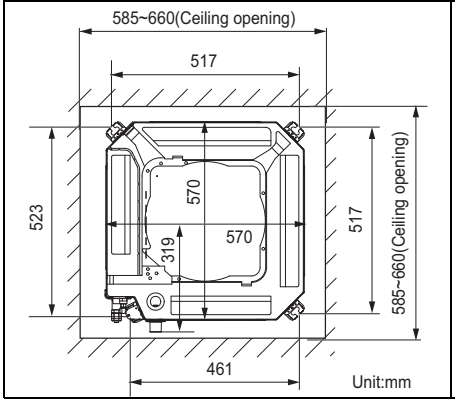
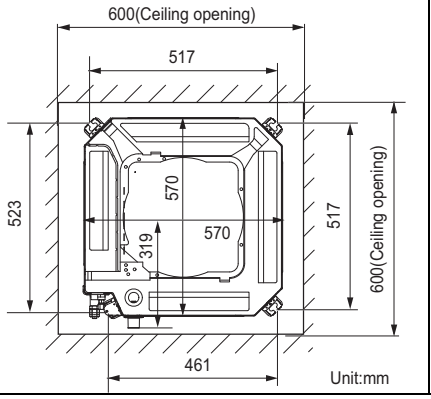
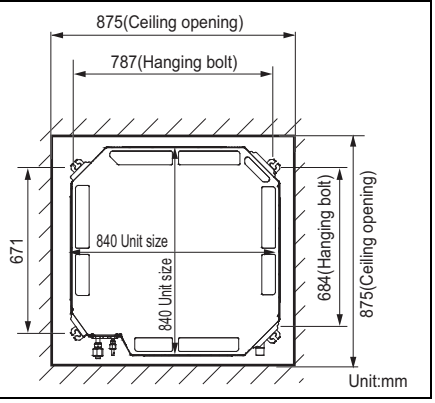


- The following parts are local purchasing.
  1.Hanging bolt - W 3/8 or M10
  2.Nut - W 3/8 or M10
  3.Spring washer - M10
  4.Plate washer - M10

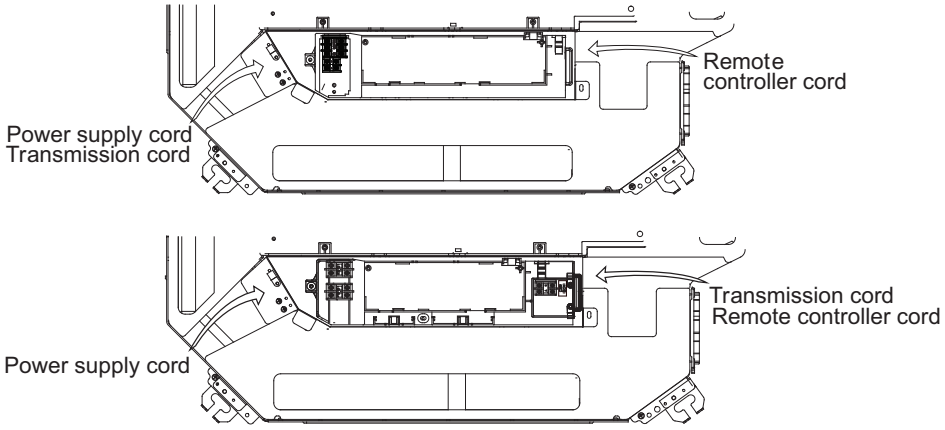
⚠ CAUTION

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



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

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 ind vidually 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 0.75mm^2 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.

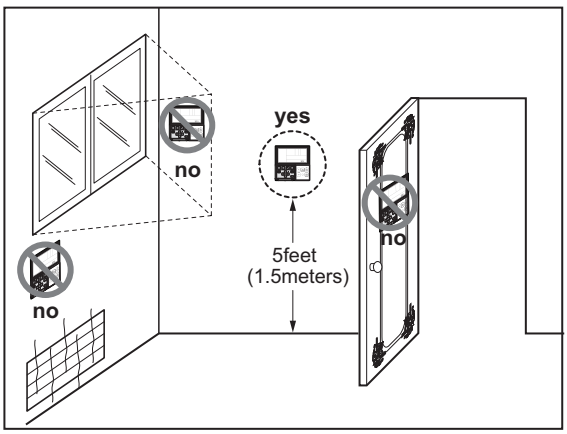
⚠ WARNING

- 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

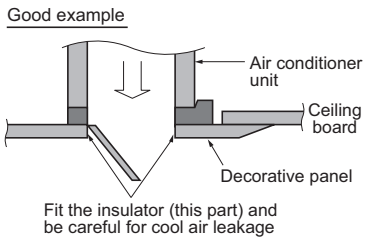
8.5 Installation of Decoration Panel

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

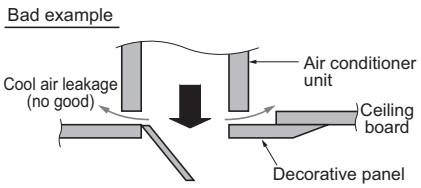
⚠ CAUTION

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

Good case



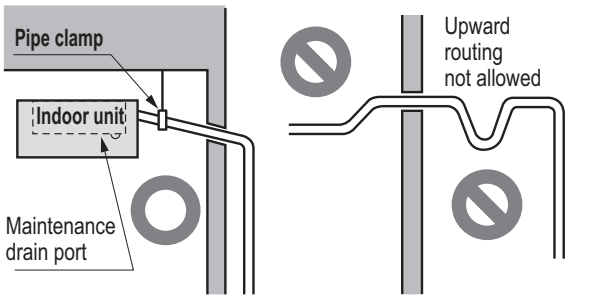
Bad case



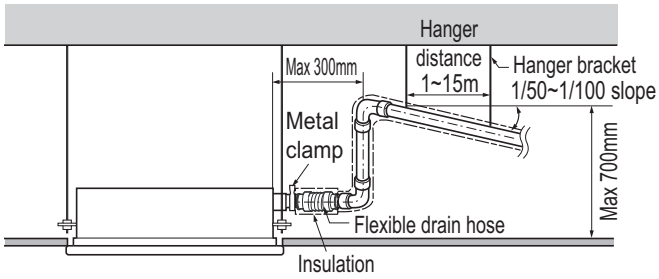
8.6 Indoor Unit Drain Piping

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.



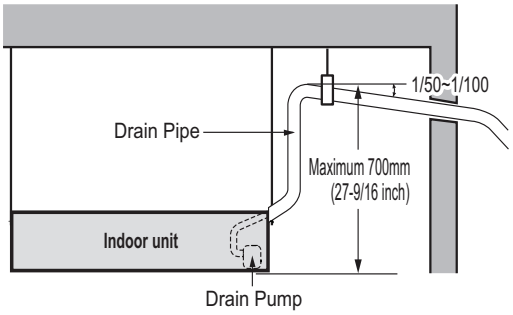
※ According to type of indoor unit, external appearance could be different.

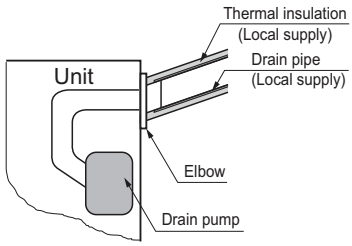


※ According to type of indoor unit, external appearance could be different.

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).





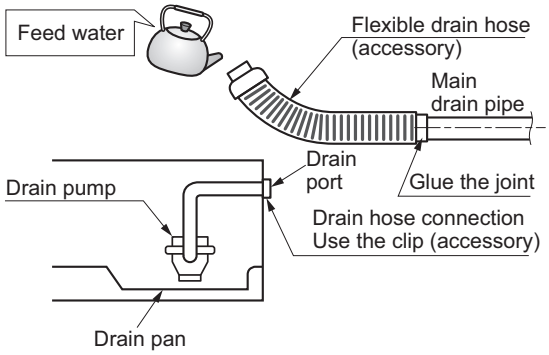
※ According to type of indoor unit, external appearance could be different.

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.

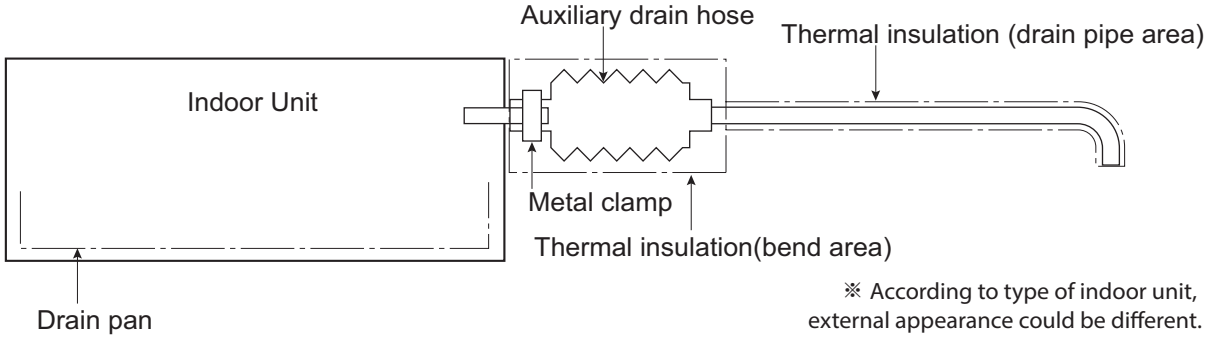
1. Connect the main drain pipe to the exterior and leave it provisionally until the test comes to an end.
2. Feed water to the flexible drain hose and check the piping for leakage.
3. Be sure to check the drain pump for normal operating and noise when electrical wiring is complete.
4. When the test is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



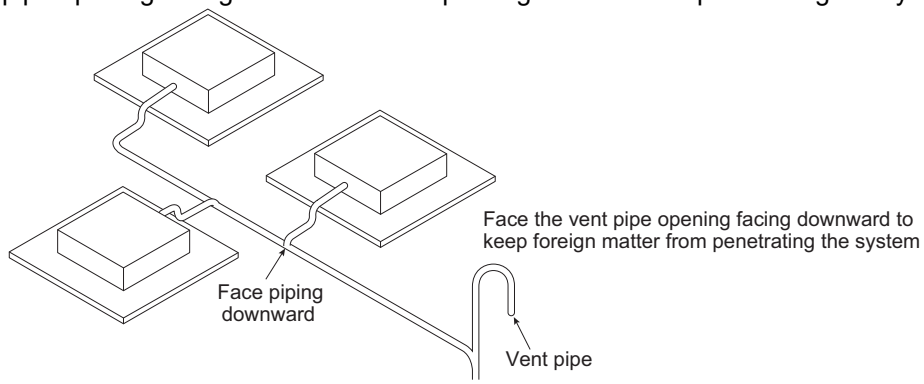
※ According to type of indoor unit,
external appearance could be different.

⚠ 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.

8.6.4 Ground drain piping

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



MULTI
Indoor Unit

Ceiling concealed duct - High static pressure

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

1. List of functions

◆ Basic functions of Indoor Unit

Category	Functions	AMNC18GBHA2 AMNC24GBHA2
Air flow	Air supply outlet	2
	Airflow direction control (left & right)	X
	Airflow direction control (up & down)	X
	Auto swing (left & right)	X
	Auto swing (up & down)	X
	Airflow steps (fan/cool/heat)	3 / 3 / -
	Chaos wind(auto wind)	X
	Jet cool/heat	X / X
	Swirl wind	X
Air purification	Triple filter (Deodorization)	X
	Plasma air purifier (Ionizer)	X
	Allergy Safe filter	X
	Pre-Filter	O
Installation	Drain pump	ABDPG
	E.S.P. control*	O
	Electric heater	X
	High ceiling operation*	X
Reliability	Hot start	X
	Self diagnosis	O
	Dry Operation	O
Convenience	Auto changeover	X
	Auto cleaning	X
	Auto operation(artificial intelligence)	O
	Auto Restart	O
	Child lock*	O
	Forced operation	X
	Group control*	O
	Sleep mode	X
	Timer(on/off)	O
	Timer(weekly)*	O
	Two thermistor control*	O
	Auto Elevation Grille	X
Special Functions	Wi-Fi	X
	Humidity Control	X
Wireless remote controller Supply (included with product)		X
Wired remote controller Supply (included with product)		O**
Network Solution(LGAP)		O

Note

1. O : Applied, X : Not applied
   Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
   Accessory line-ups varies by region, so check your local catalogue or local sales material.
2. Some functions can be limited by remote controller.
3. In case of 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

◆ Accessory Compatibility List

Category		Product	Remark	AMNC18GBHA2 AMNC24GBHA2
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	X
		PQWRCQ0FDB	Cooling Only	O
		PWLSSB21H	Heat Pump	X
		PWLSSB21C	Cooling Only	O
Wired Remote Controller	Simple	PQRCVCL0Q(W)	Simple	O
		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	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	X
		PDRYCB300	For 3rd Party Thermostat	X
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	X
		PDRYCB500	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	-	O
	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)

- 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.

2. Specifications

Model Name					AMNC18GBHA2	AMNC24GBHA2
Power Supply				V, Ø, Hz	220-240, 1, 50/60	220-240, 1, 50/60
Power Input				W	-	-
Running Current				A	1.0	1.1
Dimensions	Body		W × H × D	mm	882 × 260 × 450	882 × 260 × 450
			W × H × D	inch	34-23/32 × 10-1/4× 17-23/32	34-23/32 × 10-1/4× 17-23/32
Net Weight	Body			kg (lbs)	26.0 (57.3)	26.0 (57.3)
Heat Exchanger	(Row × Column × Fins per inch) × No.			-	(3 × 10 × 21) × 1	(3 × 10 × 21) × 1
	Face Area			m^2 (ft^2)	0.15 (1.63)	0.15 (1.63)
Fan	Type			-	Sirocco Fan	Sirocco Fan
	Air Flow Rate	High-static Mode (Factory Set)	H / M / L	m^3/min	16.5 / 14.5 / 13.0	18.0 / 16.5 / 14.0
			H / M / L	ft^3/min	583 / 512 / 459	636 / 583 / 494
			External Static Pressure	Pa (mmAq)	78 (8)	78 (8)
Fan Motor	Type			-	BLDC	BLDC
	Output			W × No.	154 × 1	154 × 1
Sound Pressure Level			H / M / L	dB(A)	36 / 34 / 32	38 / 36 / 34
Sound Power Level			H / M / L	dB(A)	-	-
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. × mm^2 (AWG)	4C x 0.75 (18)	4C x 0.75 (18)

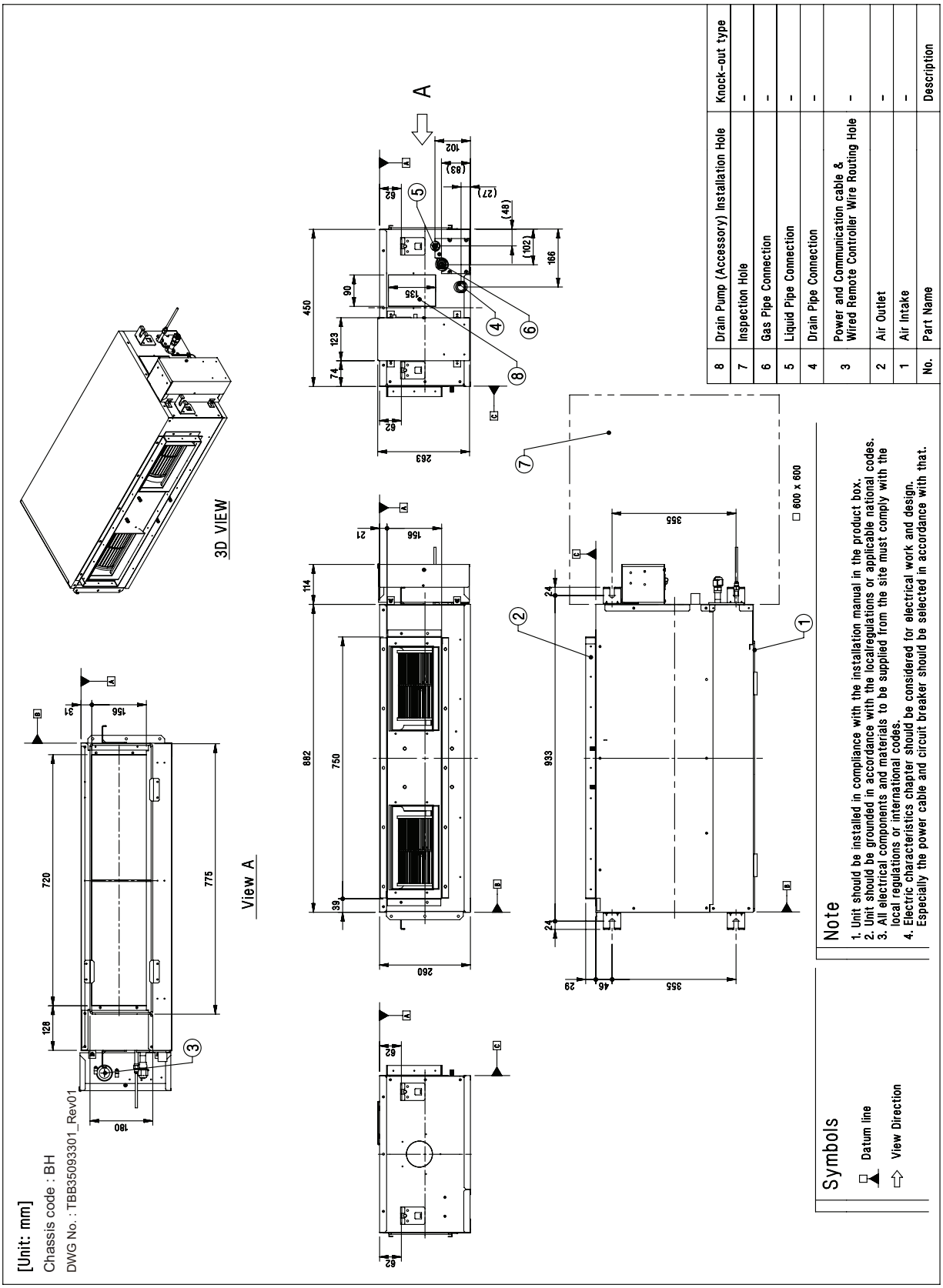
Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

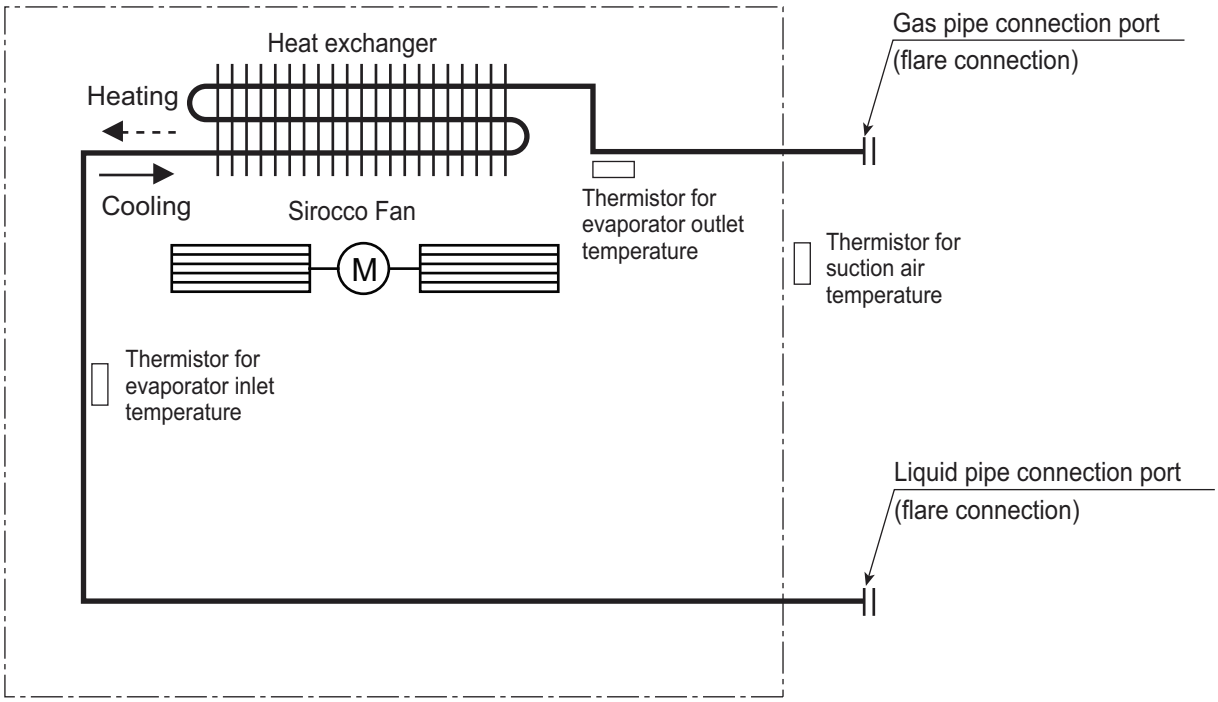
- * : In case of Multi type indoor unit, actual performance data could be different via combination of indoor units and outdoor units.

3. Dimensions

AMNC18GBHA2, AMNC24GBHA2

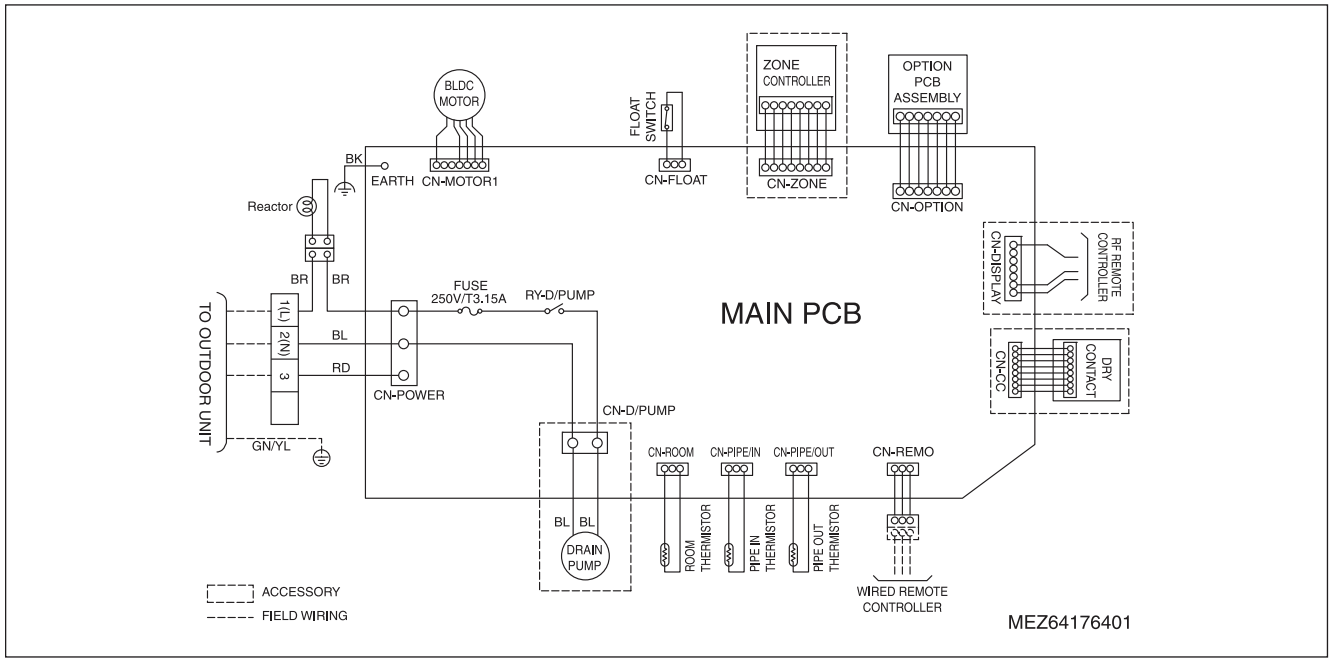


4. Piping diagrams



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

5. Wiring Diagrams

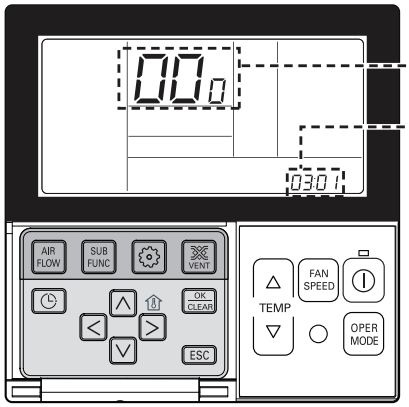


6. External Static Pressure & Air Flow

■ How to Set E.S.P. on the remote controller?

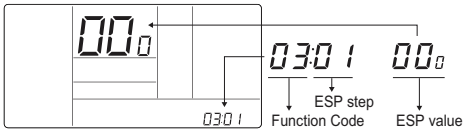
This is the function that decides the strength of the wind for each wind level and because this function is to make the installation easier.

- If you set ESP incorrectly, the air conditioner may malfunction.
- This setting must be carried out by a certificated-technician.

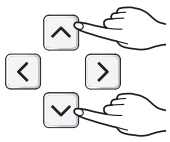


1 If pressing ⚙ button long for 3 seconds, it enters into remote controller setter setup mode.
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.

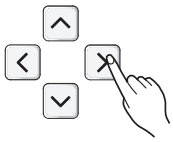
2 If entering into ESP setup mode by using ⚙ button, it indicates as the picture below.



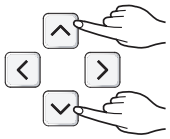
3 Select ESP fan step by pressing ∧ ∨ button.
(01: very low, 02: low, 03: medium, 04: high, 05: very high)



4 Move to ESP value setting by pressing > button.
(It is 000 when delivering from the warehouse.)



5 Press ∧ ∨ button to setup ESP value.
(It is possible to setup ESP value from 1 to 255, and 1 is the smallest and 255 is the biggest.)



6 Select ESP fan step again by using < > button and setup ESP value, as No. 4 and 5, that corresponds each wind flow

7 Press OK CLEAR button to save.

8 Press ESC button to exit.
- ❉ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
- ❉ When exiting without pressing set button, the manipulated value is not reflected.

- When setting ESP value on the product without very weak wind or power wind function, it may not work.
- Please be careful not to change the ESP value for each fan step.
- It does not work to setup ESP value for very low/power step for some products.
- ESP value is available for specific range belongs to the product.

6. External Static Pressure & Air Flow

■ Table 1

◆ AMNC18GBHA2

Setting Value	Static Pressure[mmAq(Pa)]			
	2.5(25)	4(39)	6(59)	8(78)
	Air Flow Rate [CMM]			
100	12.8	-	-	-
105	13.9	-	-	-
110	15.2	12.7	-	-
115	16.5	14.0	-	-
120	17.8	15.3	12.7	-
125	-	16.5	14.0	-
130	-	17.8	15.3	12.6
135	-	-	16.5	13.5
140	-	-	17.5	14.5
145	-	-	-	16.5

◆ AMNC24GBHA2

Setting Value	Static Pressure[mmAq(Pa)]			
	2.5(25)	4(39)	6(59)	8(78)
	Air Flow Rate [CMM]			
105	13.9	-	-	-
110	15.2	12.7	-	-
115	16.5	14.0	-	-
120	17.8	15.3	12.7	-
125	-	16.5	14.0	-
130	-	17.8	15.3	12.6
135	-	-	16.5	13.5
140	-	-	17.5	14.5
145	-	-	-	16.5
150	-	-	-	18.0

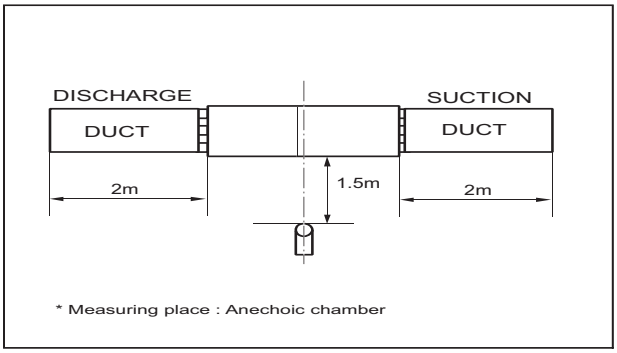
■ Table 2

Model	Mode		Set value	Standard ESP [mmAq(Pa)]	l/s	Lower Limit of External Static Pressure [mmAq(Pa)]	Upper Limit of External Static Pressure [mmAq(Pa)]
AMNC18GBHA2	High (factory set)	H	145	8(78)	16.5	2.5(25)	8(78)
		M	140		14.5		
		L	134		13.0		
AMNC24GBHA2	High (factory set)	H	150	8(78)	18.0	2.5(25)	8(78)
		M	145		16.5		
		L	136		14.0		

7. Sound levels

7.1 Sound pressure level

■ Overall

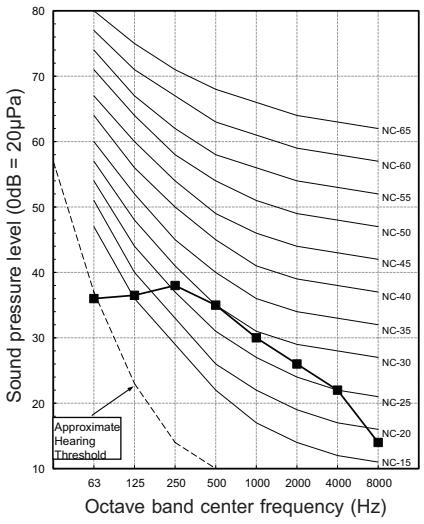


Note

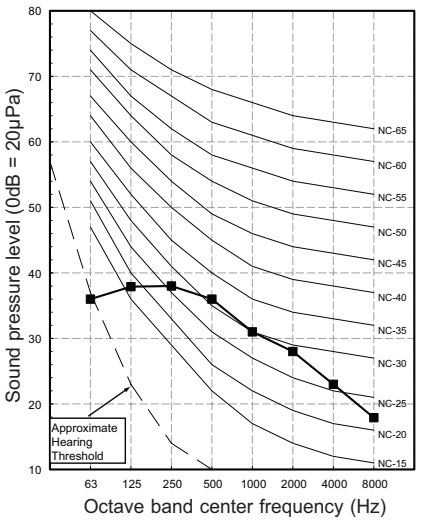
1. Sound measured at some distance away from the center of the unit.
2. Data is valid at free field condition.
3. Reference accoustic pressure 0dB = 20μPa.
4. Data is valid at nominal operation condition.
   Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature,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

Model	50Hz, 220-240V		
	Sound pressure Levels [dB(A)]		
	H	M	L
AMNC18GBHA2	36	34	32
AMNC24GBHA2	38	36	34

AMNC18GBHA2

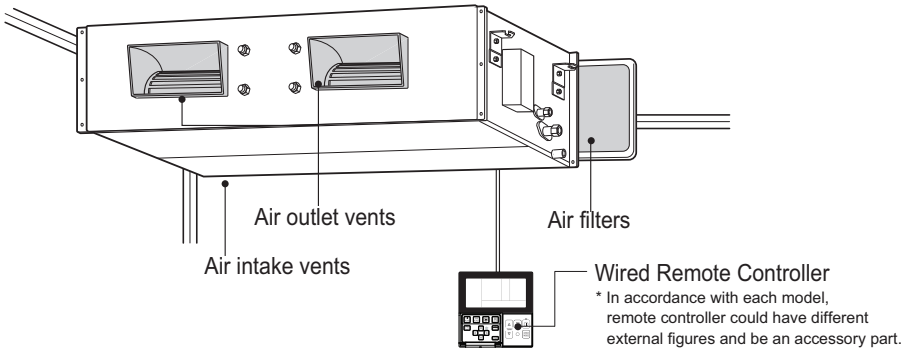


AMNC24GBHA2



8. Installation

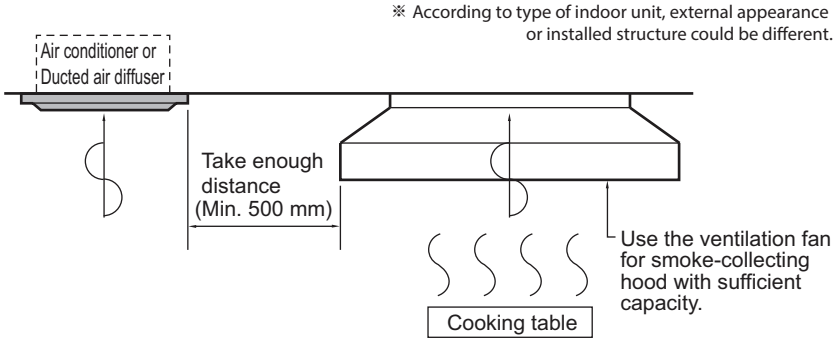
- Please read the instruction sheets completely before installing the product.
- When the power cord is damaged, replacement work shall be performed by authorized personnel only.
- Installation work must be performed in accordance with the national wiring standards.
- Teach the customer the operation 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;
     - Make sure that ventilation fan is enough to cover all noxious gases from this place.
     - Ensure enough distance from the cooking room to install the air conditioner in such a place where it may not suck oily steam.



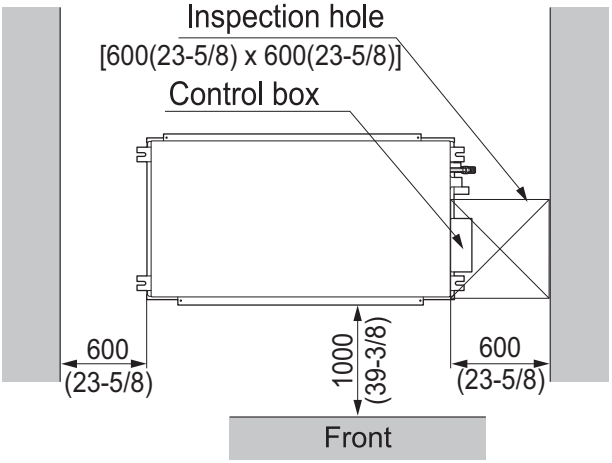
8. Installation

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

CAUTION

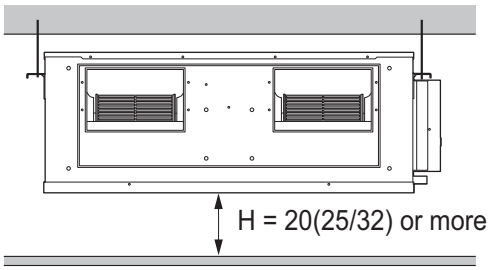
- If the temperature rise above 30℃ or the humidity rise above RH 80%, the dew-protective kit should be equipped or use additional insulation to the indoor unit body.
  - "Dew Protective kit" is sold separately.
  - Use the glass wool material or polyethylene foam and it make sure to be thick of 10mm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

Top view



[Unit: mm(inch)]

Front view



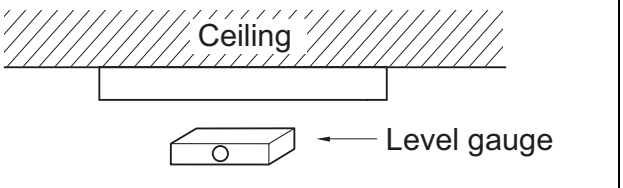
[Unit: mm(inch)]

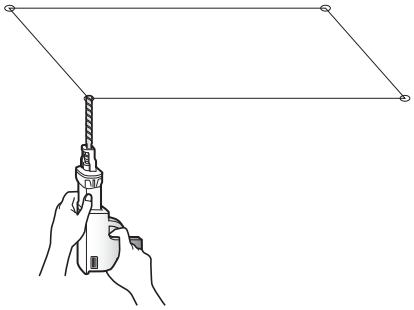
8. Installation

8.2 Ceiling dimension and hanging bolt location

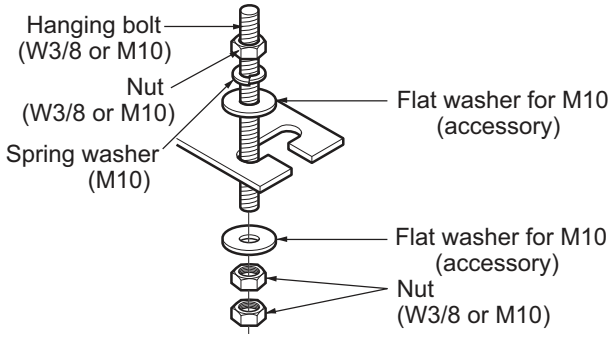
⚠ CAUTION

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





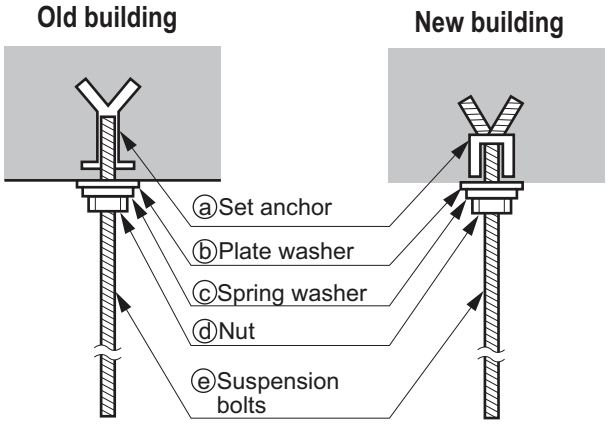
1. The dimensions of the paper model for installation are the same as those of the ceiling opening dimensions.
2. Select and mark the position for fixing bolts and piping hole.
3. Decide the position for fixing bolts slightly tilted to the drain direction after considering the direction of drain hose.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



- 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.

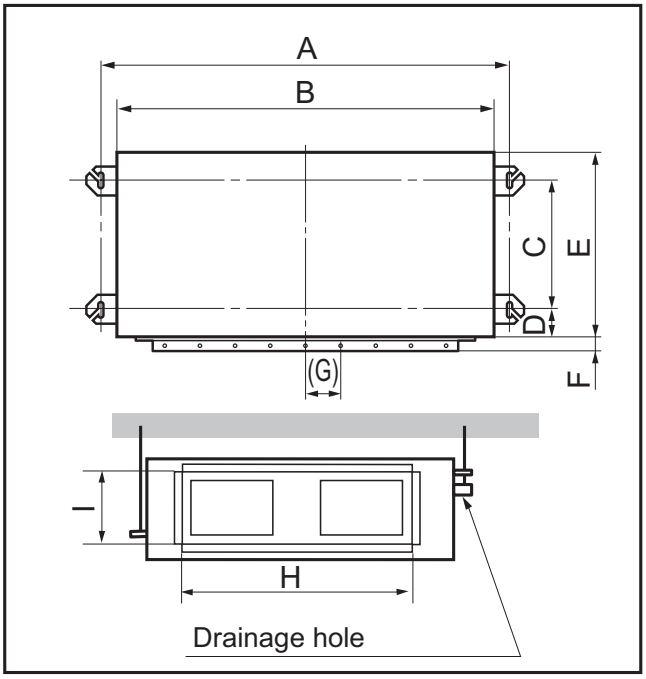


8. Installation

■ Installation dimension of Indoor unit

BH/BG/BR Chassis

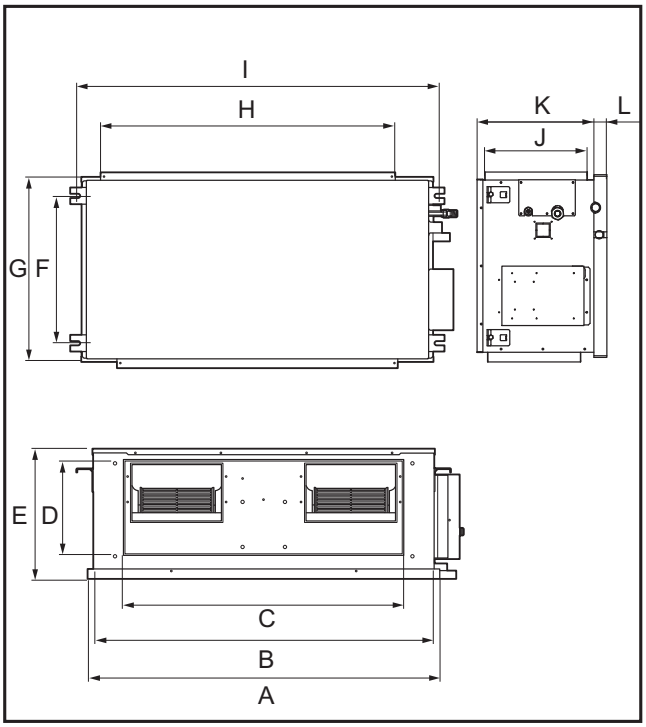
* According to product type, model line up, sales region..etc, applicability of each chassis could be different.



Chassis	Dimension (mm)								
	A	B	C	D	E	F	G	H	I
BH	932	882	355	47	450	30	(87)	750	158
BG	1232	1182	355	47	450	30	(87)	830	186
BR	1282	1230	477	56	590	30	(120)	1006	294

B7/B9 Chassis

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

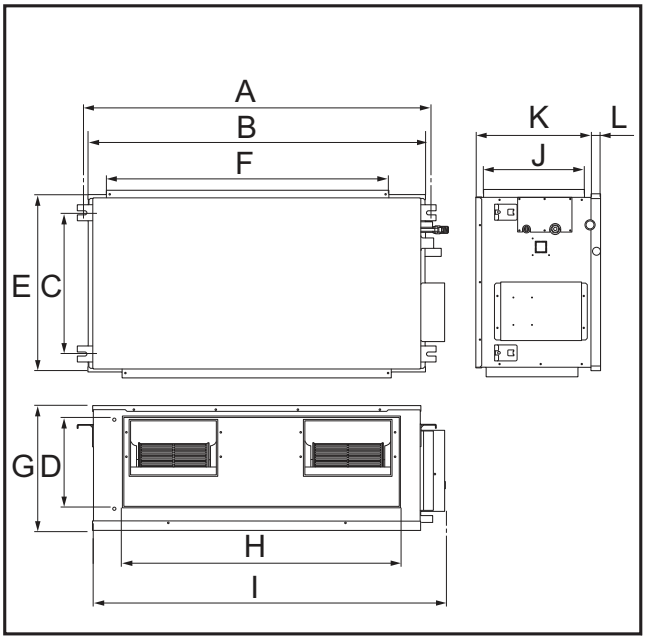


Chassis	Dimension (mm)											
	A	B	C	D	E	F	G	H	I	J	K	L
B7	1,352	1,320	840	287	400	441	563	1,172	1,365	317	360	40
B9	1,594	1,563	984	275	458	657	821	1,368	1,627	391	-	-

8. Installation

B8 Chassis

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



Chassis	Dimension (mm)											
	A	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**I**	**J**	**K**	**L**
B8	1622	1565	580	292	695	1400	460	1122	1680	390	445	15

8.3 Connecting cables between Indoor Unit and Outdoor Unit

8.3.1 General instructions

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

⚠ CAUTION

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

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

8. Installation

8.3.2 Wiring connection

- Connect the wires to the terminals on the control board ind vidually 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 0.75mm^2 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.

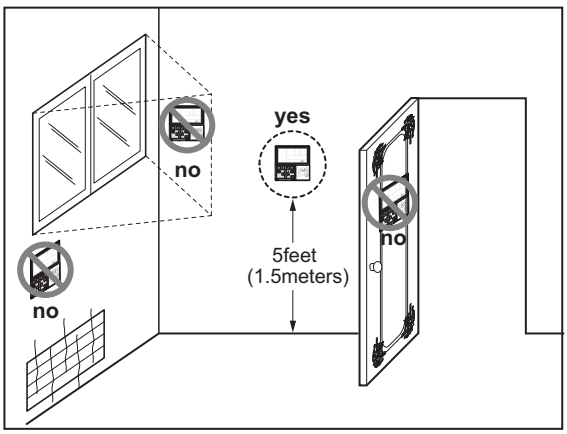
⚠ WARNING

- 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

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.

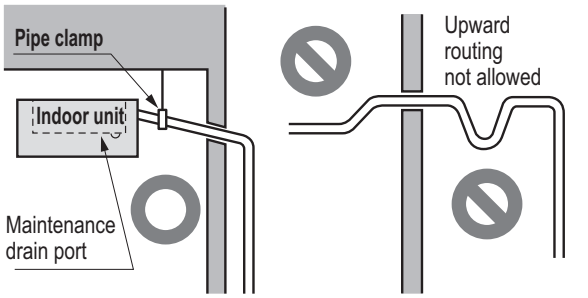


- **Do not install the remote controller where it can be affected by :**
  - – Drafts, or dead spots behind doors and in corners.
  - – Hot or cold air from ducts.
  - – Radiant heat from sun or appliances.
  - – Concealed pipes and chimneys.
  - – Uncontrolled areas such as an outside wall behind the 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.)

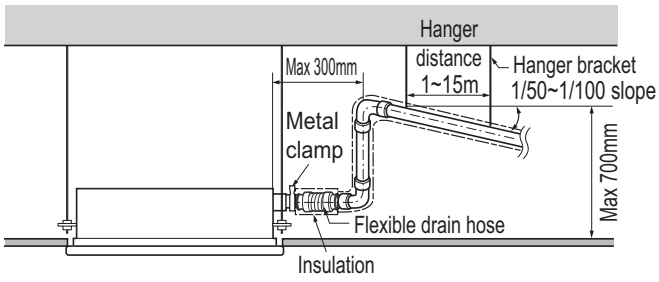
8.4 Indoor Unit Drain Piping

8.4.1 Drain piping of indoor unit with drain pump

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

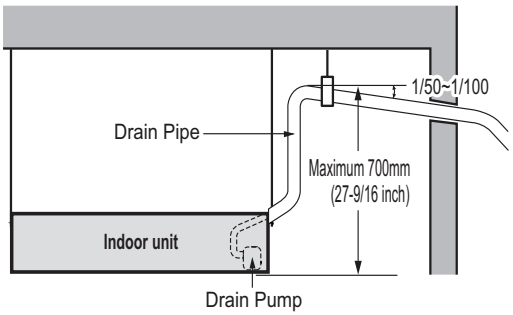


※ According to type of indoor unit, external appearance could be different.

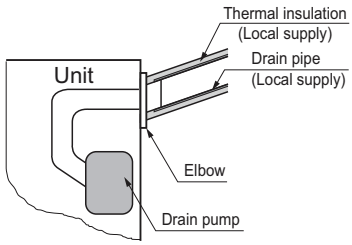


※ According to type of indoor unit, external appearance could be different.

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



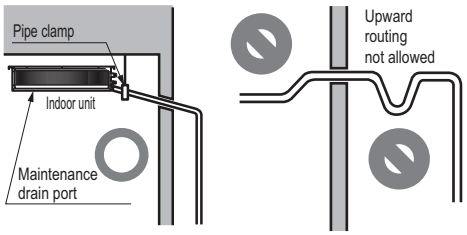
※ According to type of indoor unit, external appearance could be different.



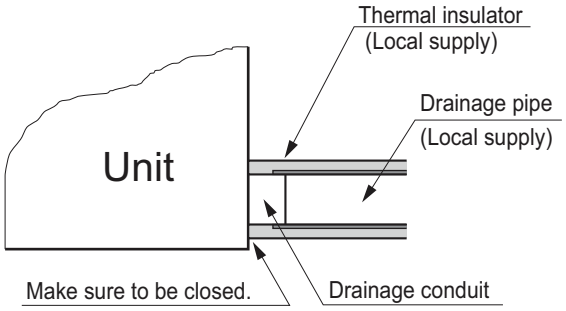
8. Installation

8.4.2 Drain pipe connection without drain pump

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



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



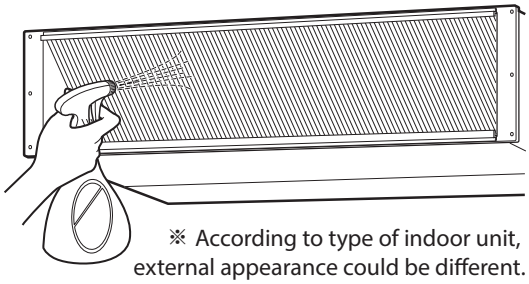
8. Installation

8.4.3 Method of Drainage test

◆ Drainage test of indoor unit

Use the following procedure to test the drainage.

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

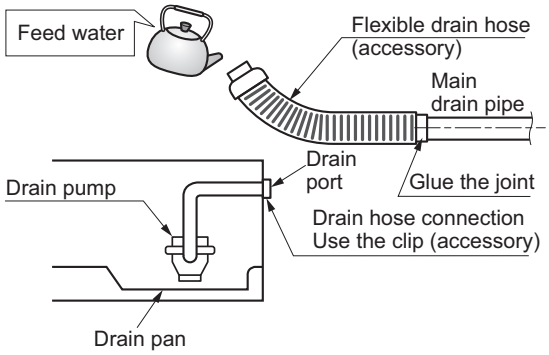


※ According to type of indoor unit, external appearance could be different.

◆ Drainage test of indoor unit with drain pump

Use the following procedure to test the drain pump operation.

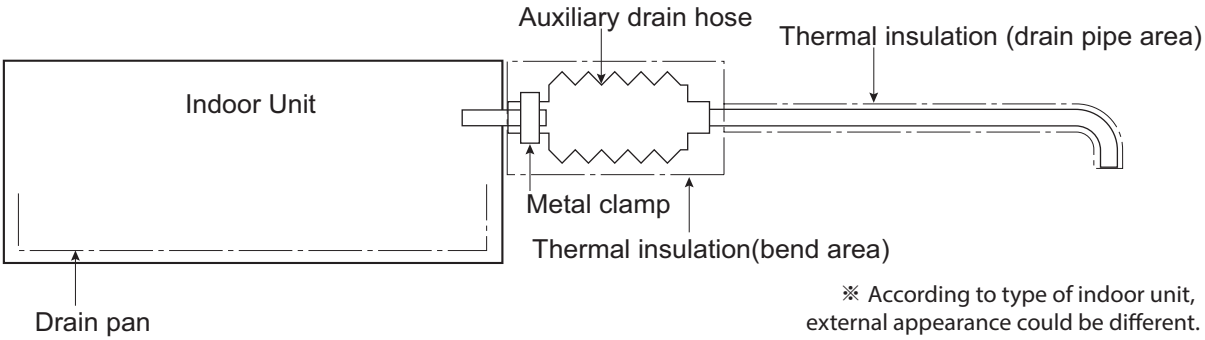
1. Connect the main drain pipe to the exterior and leave it provisionally until the test comes to an end.
2. Feed water to the flexible drain hose and check the piping for leakage.
3. Be sure to check the drain pump for normal operating and noise when electrical wiring is complete.
4. When the test is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

8.4.4 Connection of an auxiliary(flexible) drain hose

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



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

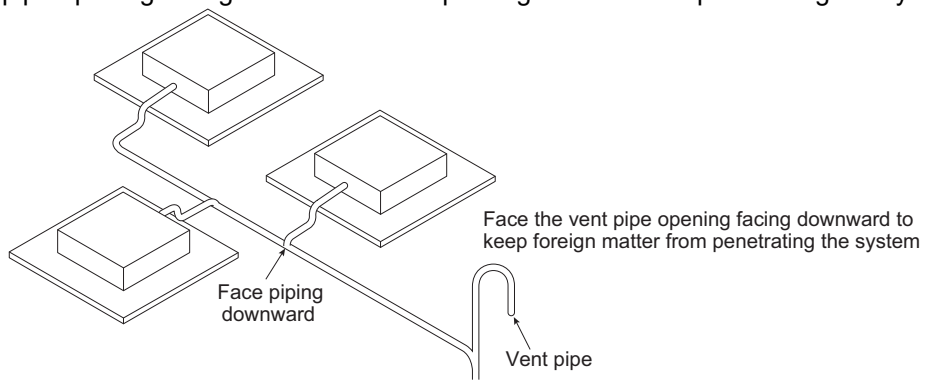
⚠ CAUTION

– 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.

8.4.5 Ground drain piping

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



MULTI
Indoor Unit

Ceiling concealed duct - Low static pressure

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

1. List of functions

■ Cooling Only

◆ Basic functions of Indoor Unit

Category	Functions	AMNQ09GL1A0 AMNQ12GL2A0 AMNQ18GL2A0 AMNQ24GL3A0
Air flow	Air supply outlet	1
	Airflow direction control (left & right)	X
	Airflow direction control (up & down)	X
	Auto swing (left & right)	X
	Auto swing (up & down)	X
	Airflow steps (fan/cool/heat)	3 / 3 / X
	Chaos wind(auto wind)	X
	Jet cool/heat	X / X
	Swirl wind	X
Air purification	Triple filter (Deodorization)	X
	Plasma air purifier	X
	Allergy Safe filter	X
	Pre-Filter	O
Installation	Drain pump	O
	E.S.P. control*	O
	Electric heater	X
	High ceiling operation*	X
Reliability	Hot start	X
	Self diagnosis	O
	Dry Operation	O
Convenience	Auto changeover	X
	Auto cleaning	X
	Auto operation(artificial intelligence)	O
	Auto Restart	O
	Child lock*	O
	Forced operation	X
	Group control*	O
	Sleep mode	O
	Timer(on/off)	O
	Timer(weekly)*	O
	Two thermistor control*	O
	Auto Elevation Grille	X
Special Functions	Wi-Fi	O (Accessory)
	Humidity Control	X
Comes with product	Wireless Remote Controller	X
	Wired Remote Controller	O**
Network Solution(LGAP)		O

Note

1. O : Applied, X : Not applied
   Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
   Accessory line-ups varies by region, so check your local catalogue or local sales material.
2. Some functions can be limited by remote controller.
3. In case of 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	AMNQ09GL1A0 AMNQ12GL2A0 AMNQ18GL2A0 AMNQ24GL3A0
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	X
		PQWRCQ0FDB	Cooling Only	O
		PWLSSB21H	Heat Pump	X
		PWLSSB21C	Cooling Only	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(A/B)	Premium	O
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	For 3rd Party Thermostat	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O
		PDRYCB500	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	-	O
	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	-	O

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)

- 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.

1. List of functions

■ Heat Pump

◆ Basic functions of Indoor Unit

Category	Functions	AMNW09GL1A2 AMNW12GL2A2 AMNW18GL2A2 AMNW24GL3A2
Air flow	Air supply outlet	1
	Airflow direction control (left & right)	X
	Airflow direction control (up & down)	X
	Auto swing (left & right)	X
	Auto swing (up & down)	X
	Airflow steps (fan/cool/heat)	3 / 3 / 3
	Chaos wind(auto wind)	X
	Jet cool/heat	X / X
	Swirl wind	X
Air purification	Triple filter (Deodorization)	X
	Plasma air purifier	X
	Allergy Safe filter	X
	Pre-Filter	O
Installation	Drain pump	O
	E.S.P. control*	O
	Electric heater	X
	High ceiling operation*	X
Reliability	Hot start	O
	Self diagnosis	O
	Dry Operation	O
Convenience	Auto changeover	X
	Auto cleaning	X
	Auto operation(artificial intelligence)	O
	Auto Restart	O
	Child lock*	O
	Forced operation	X
	Group control*	O
	Sleep mode	O
	Timer(on/off)	O
	Timer(weekly)*	O
	Two thermistor control*	O
	Auto Elevation Grille	X
Special Functions	Wi-Fi	O (Accessory)
	Humidity Control	X
Comes with product	Wireless Remote Controller	X
	Wired Remote Controller	O**
Network Solution(LGAP)		O

Note

1. O : Applied, X : Not applied
   Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.
   Accessory line-ups varies by region, so check your local catalogue or local sales material.
2. Some functions can be limited by remote controller.
3. In case of 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	AMNW09GL1A2 AMNW12GL2A2 AMNW18GL2A2 AMNW24GL3A2
Wireless Remote Controller		PQWRHQ0FDB	Heat Pump	O
		PQWRCQ0FDB	Cooling Only	X
		PWLSSB21H	Heat Pump	O
		PWLSSB21C	Cooling Only	X
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(A/B)	Premium	O
Dry contact	Simple Contact	PDRYCB000	Simple Dry Contact	O
	Communication type	PDRYCB400	2 Points Dry Contact (For Setback)	O
		PDRYCB300	For 3rd Party Thermostat	O
		PDRYCB320	For 3rd Party Thermostat (Analog Input)	O
		PDRYCB500	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	-	O
	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	-	O

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)

- 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.

2. Specifications

■ Cooling Only, Heat Pump

Model Name					AMNQ09GL1A0 AMNW09GL1A2	AMNQ12GL2A0 AMNW12GL2A2
Power Supply				V, Ø, Hz	220-240, 1, 50	220-240, 1, 50
					220, 1, 60	220, 1, 60
Power Input				W	50	95
Running Current				A	0.40	0.80
Dimensions	Body		W × H × D	mm	700 × 190 × 700	900 × 190 × 700
			W × H × D	inch	27-9/16 × 7-15/32 × 27-9/16	35-7/16 × 7-15/32 × 27-9/16
Net Weight				kg	15.9	20.6
Shipping Weight				kg	20.5	25.8
Heat Exchanger	(Row × Column × Fins per inch) × No.			-	(2 × 11 × 14) × 1	(2 × 11 × 18) × 1
	Face Area			m² (ft²)	0.12 (1.32)	0.17 (1.81)
Fan	Type			-	Sirocco	Sirocco
	Air Flow Rate	High-static Mode (Factory Set)	H / M / L	m³/min	9.0 / 7.0 / 5.5	10.0 / 8.5 / 7.0
			H / M / L	ft³/min	318 / 247 / 194	353 / 300 / 247
			External Static Pressure	Pa (mmAq)	24.5 (2.5)	24.5 (2.5)
Fan Motor	Type			-	BLDC	BLDC
	Output			W × No.	19 × 1	19 × 1 + 5 × 1
Dehumidification Rate				l / h (pts/h)	1.1 (2.3)	1.2 (2.6)
Sound Pressure Level			H / M / L	dB(A)	30 / 26 / 23	31 / 28 / 27
Sound Power Level			Max.	dB(A)	49	52
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(inch)	Ø 32.0(1-1/4) / 25.0(31/32)	Ø 32.0(1-1/4) / 25.0(31/32)
Safety Devices				-	Fuse	
				-	-	
Power and Communication Cable (included Earth)				No. x mm² (AWG)	4C x 0.75 (18)	4C x 0.75 (18)

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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					AMNQ18GL2A0 AMNW18GL2A2	AMNQ24GL3A0 AMNW24GL3A2
Power Supply				V, Ø, Hz	220-240, 1, 50	220-240, 1, 50
					220, 1, 60	220, 1, 60
Power Input				W	120	150
Running Current				A	0.80	1.00
Dimensions	Body		W x H x D	mm	900 × 190 × 700	1,100 × 190 × 700
			W x H x D	inch	35-7/16 x 7-15/32 x 27-9/16	43-5/16 x 7-15/32 x 27-9/16
Net Weight				kg	20.6	24.2
Shipping Weight				kg	25.8	29.9
Heat Exchanger	(Row x Column x Fins per inch) x No.			-	(2 x 11 x 18) x 1	(3 x 11 x 18) x 1
	Face Area			m^2 (ft^2)	0.17 (1.81)	0.21 (2.31)
Fan	Type			-	Sirocco	Sirocco
	Air Flow Rate	High-static Mode (Factory Set)	H / M / L	m^3/min	15.0 / 12.5 / 10.0	20.0 / 16.0 / 12.0
			H / M / L	ft^3/min	530 / 441 / 353	706 / 565 / 424
			External Static Pressure	Pa (mmAq)	24.5 (2.5)	24.5 (2.5)
Fan Motor	Type			-	BLDC	BLDC
	Output			W × No.	19 x 1 + 5 x 1	19 x 2
Dehumidification Rate				/ / h (pts/h)	1.7 (3.6)	2.2 (4.7)
Sound Pressure Level			H / M / L	dB(A)	36 / 34 / 31	39 / 35 / 32
Sound Power Level			Max.	dB(A)	54	58
Piping Connections	Liquid			mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)*
	Gas			mm(inch)	Ø 12.7 (1/2)	Ø 12.7 (1/2)*
	Drain (O.D. / I.D.)			mm(inch)	Ø 32.0(1-1/4) / 25.0(31/32)	Ø 32.0(1-1/4) / 25.0(31/32)
Safety Devices				-	Fuse	
				-	-	
Power and Communication Cable (included Earth)				No. x mm^2 (AWG)	4C x 0.75 (18)	4C x 0.75 (18)

Note

1. Due to our policy of innovation some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national code. And “Electric characteristics” chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
3. Sound Level Values are measured at Noise Measuring chamber accordance with standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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.

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

3. Dimensions

■ Cooling Only, Heat Pump

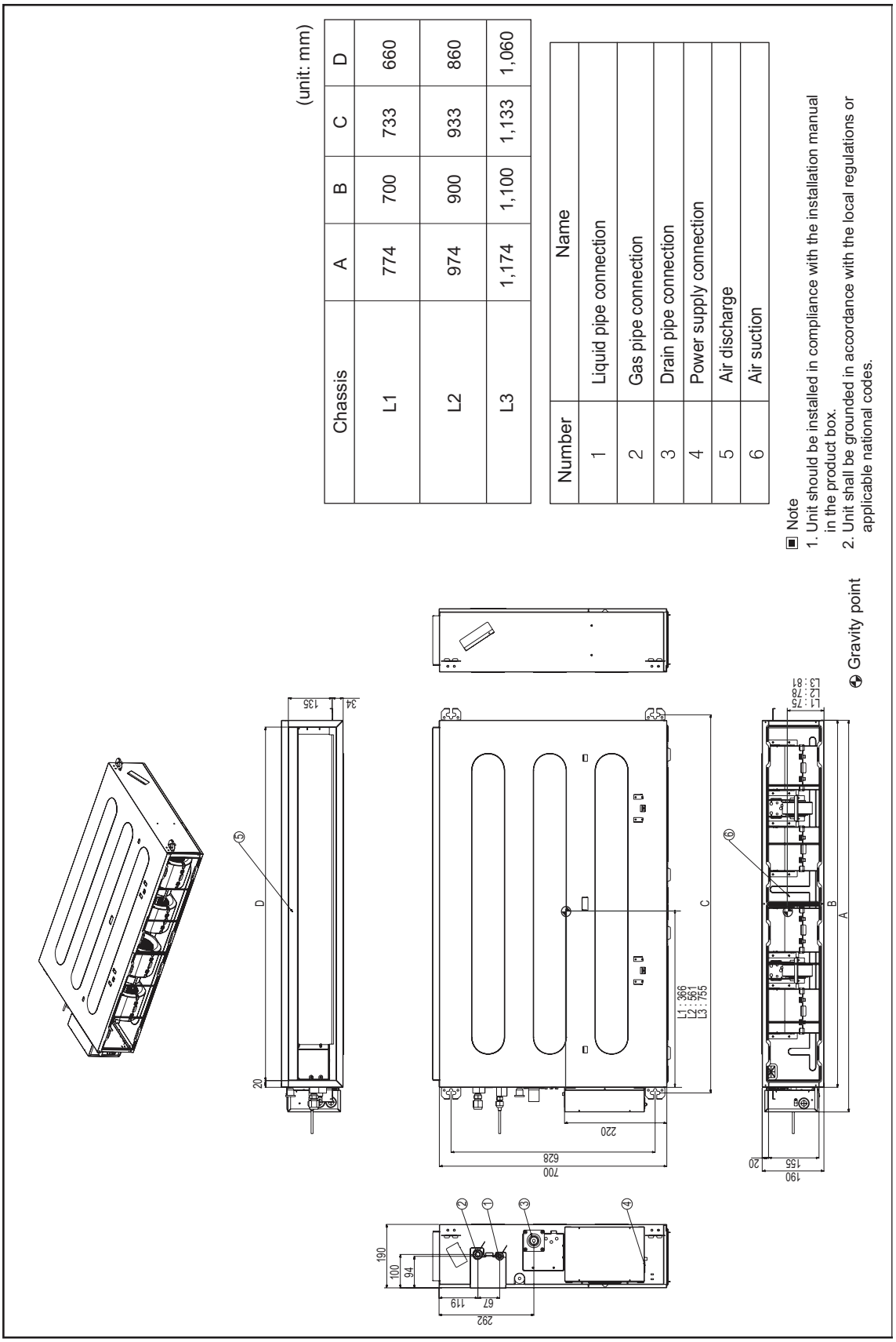
- **AMNQ09GL1A0 / AMNQ12GL2A0 / AMNQ18GL2A0 / AMNQ24GL3A0**
- **AMNW09GL1A2 / AMNW12GL2A2 / AMNW18GL2A2 / AMNW24GL3A2**

(unit: mm)

Chassis	A	B	C	D
L1	774	700	733	660
L2	974	900	933	860
L3	1,174	1,100	1,133	1,060

Number	Name
1	Liquid pipe connection
2	Gas pipe connection
3	Drain pipe connection
4	Power supply connection
5	Air discharge
6	Air suction

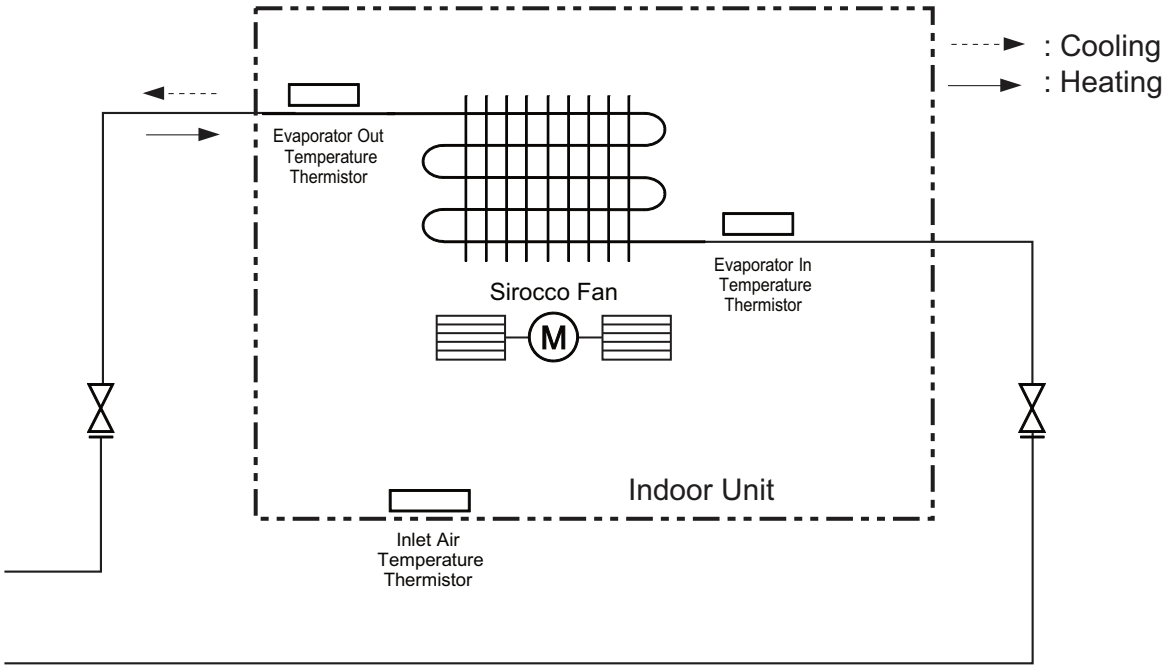
▣ Note
1. Unit should be installed in compliance with the installation manual in the product box.
2. Unit shall be grounded in accordance with the local regulations or applicable national codes.



4. Piping diagrams

■ Cooling Only, Heat Pump

◆ L1 Chassis



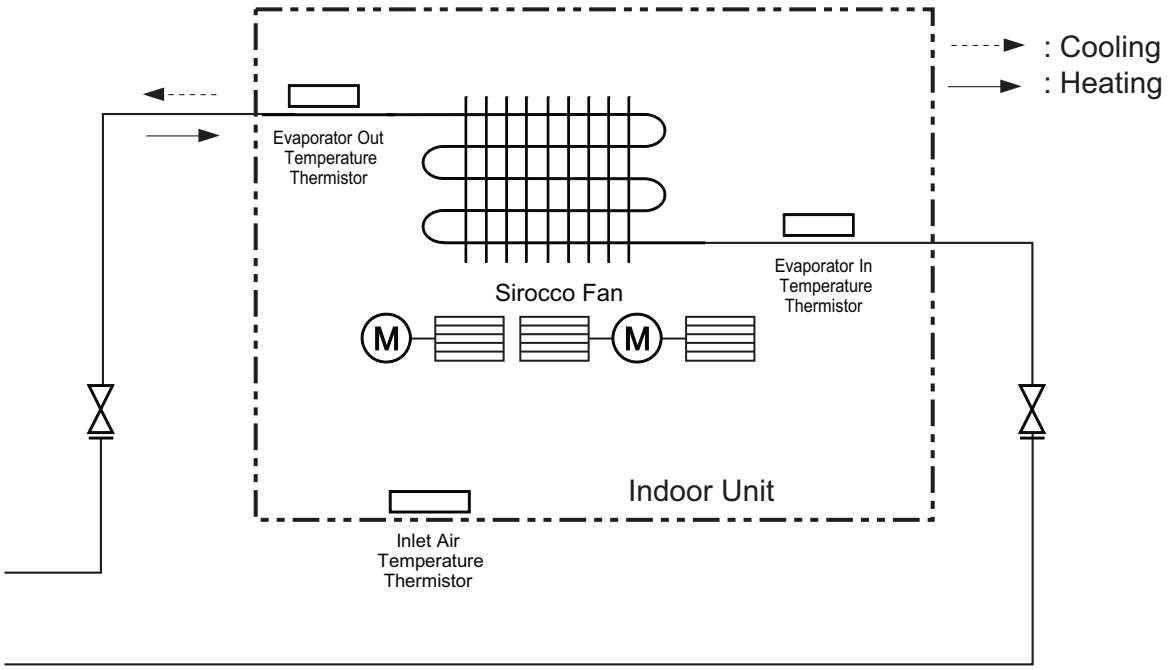
Note

- Heating does not apply to the AMNQ model.

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

4. Piping diagrams

◆ L2 Chassis



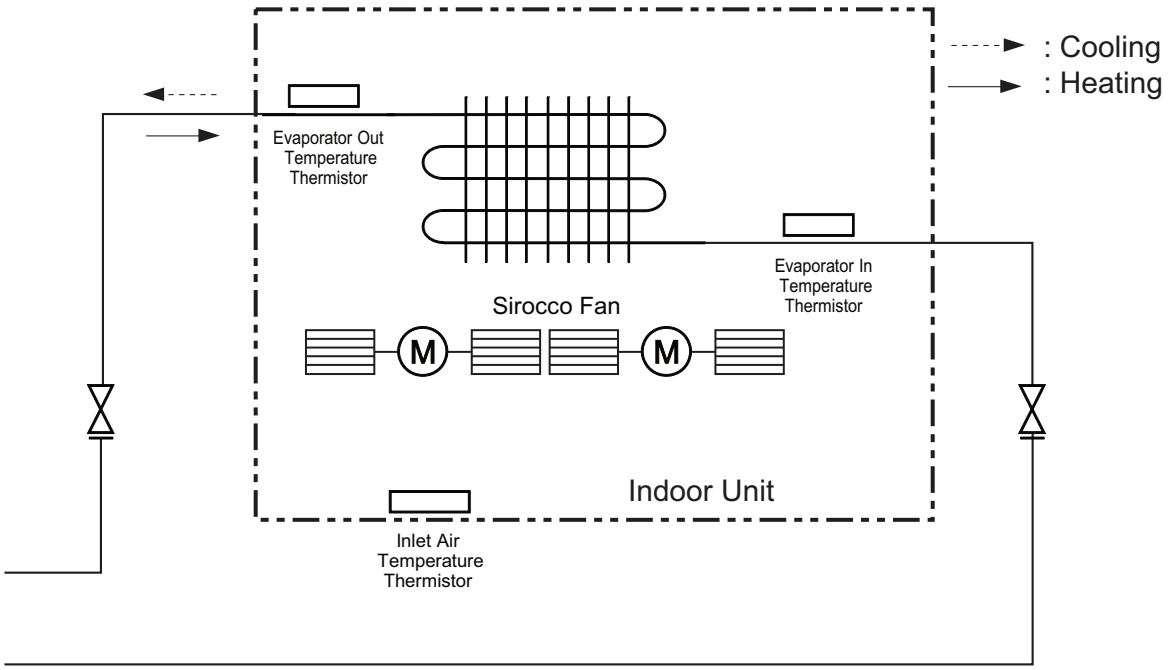
Note

- Heating does not apply to the AMNQ model.

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

4. Piping diagrams

◆ L3 Chassis



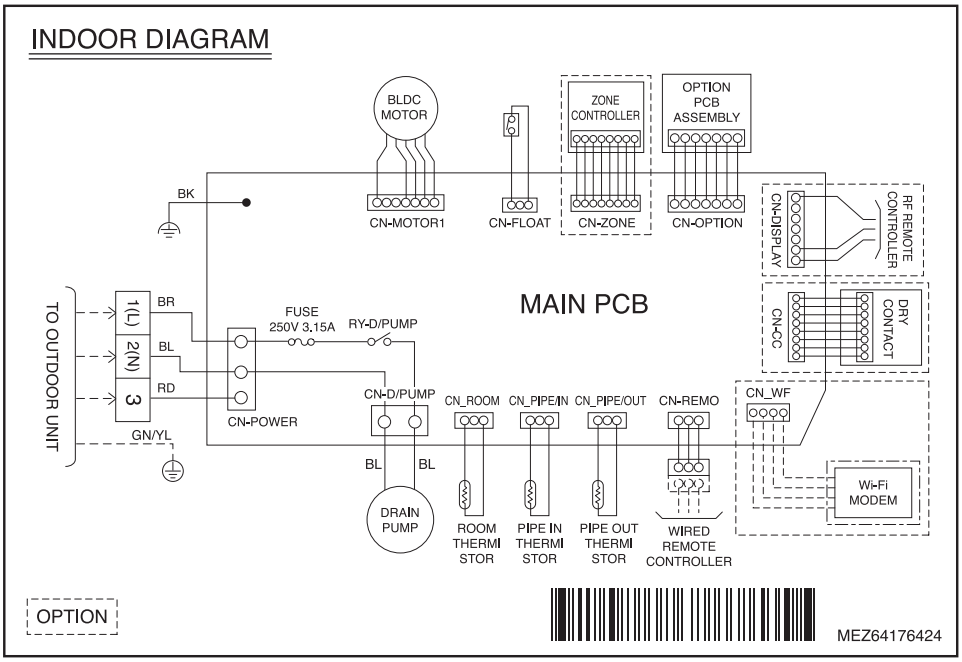
Note

- Heating does not apply to the AMNQ model.

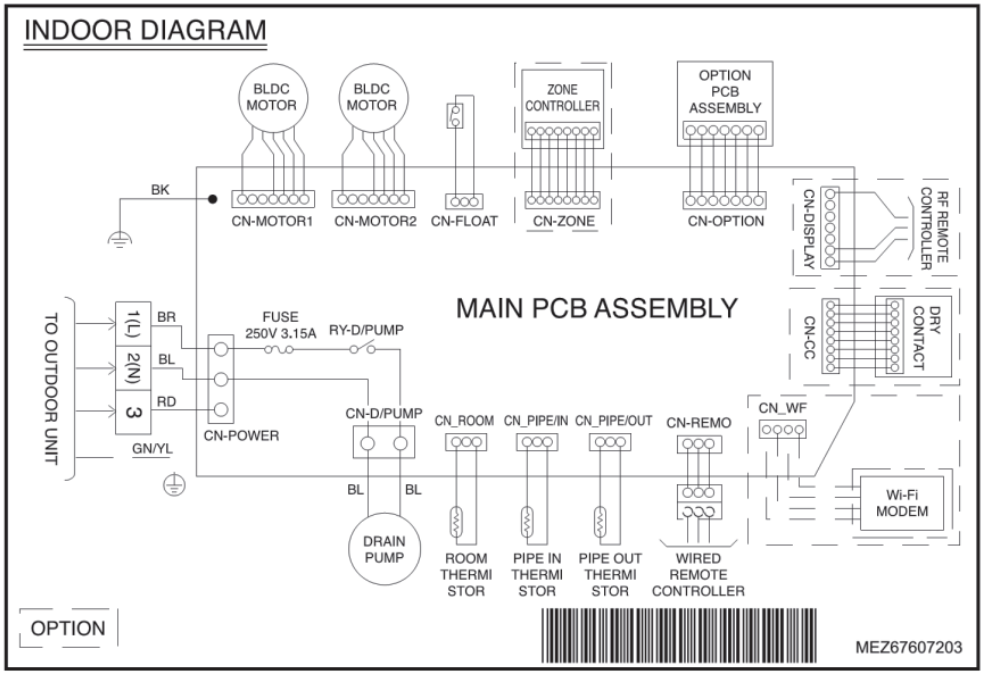
Description	PCB Connector
Inlet Air Temperature Thermistor	CN-ROOM
Evaporator In Temperature Thermistor	CN-PIPE_IN
Evaporator Out Temperature Thermistor	CN-PIPE_OUT

5. Wiring Diagrams

■ Models: AMNQ09GL1A0 / AMNW09GL1A2



■ Models: AMNQ12GL2A0 / AMNW12GL2A2 / AMNQ18GL2A0 / AMNW18GL2A2 / AMNQ24GL3A0 / AMNW24GL3A2

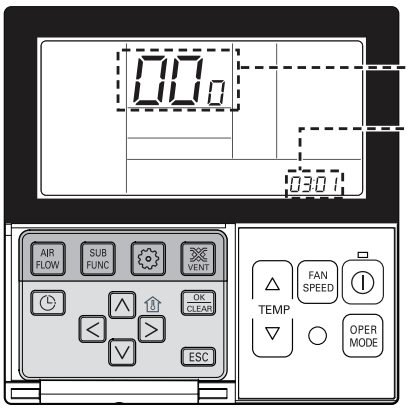


6. External Static Pressure & Air Flow

■ How to Set E.S.P. on the remote controller?

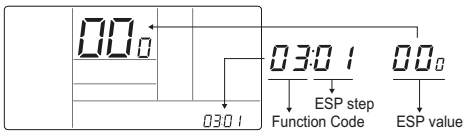
This is the function that decides the strength of the wind for each wind level and because this function is to make the installation easier.

- If you set ESP incorrectly, the air conditioner may malfunction.
- This setting must be carried out by a certificated-technician.

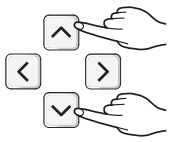


1 If pressing ⚙ button long for 3 seconds, it enters into remote controller setter setup mode.
- If pressing once shortly, it enters into user setup mode. Please press more than 3 seconds for sure.

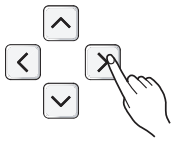
2 If entering into ESP setup mode by using ⚙ button, it indicates as the picture below.



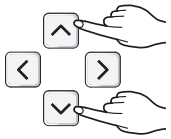
3 Select ESP fan step by pressing ∧ ∨ button.
(01: very low, 02: low, 03: medium, 04: high, 05: very high)



4 Move to ESP value setting by pressing > button.
(It is 000 when delivering from the warehouse.)



5 Press ∧ ∨ button to setup ESP value.
(It is possible to setup ESP value from 1 to 255, and 1 is the smallest and 255 is the biggest.)



6 Select ESP fan step again by using < > button and setup ESP value, as No. 4 and 5, that corresponds each wind flow

7 Press OK CLEAR button to save.

8 Press ESC button to exit.
- ❊ After setup, it automatically gets out of setup mode if there is no button input for 25 seconds.
- ❊ When exiting without pressing set button, the manipulated value is not reflected.

- When setting ESP value on the product without very weak wind or power wind function, it may not work.

6. External Static Pressure & Air Flow

◆ AMNQ09GL1A0 / AMNW09GL1A2

Setting Value	Static Pressure [mmAq(Pa)]					
	0 (0)	1 (10)	2 (20)	3 (30)	4 (40)	5 (50)
	Air Flow Rate [m³/min]					
60	-	-	-	-	-	-
65	5.03	-	-	-	-	-
70	5.60	4.85	-	-	-	-
75	6.19	5.44	4.57	-	-	-
80	6.79	6.05	5.17	-	-	-
85	7.41	6.67	5.80	4.80	-	-
90	8.05	7.31	6.43	5.44	-	-
95	8.71	7.96	7.09	6.09	4.97	-
100	9.38	8.63	7.76	6.76	5.64	-
105	10.07	9.32	8.45	7.45	6.33	5.08
110	-	10.03	9.16	8.16	7.04	5.79
115	-	-	9.88	8.88	7.76	6.51
120	-	-	-	9.62	8.50	7.25
125	-	-	-	10.38	9.26	8.01
130	-	-	-	-	10.03	8.78

Note

1. The above table shows the correlation between the air rates and E.S.P.

◆ AMNQ12GL2A0 / AMNW12GL2A2 / AMNQ18GL2A0 / AMNW18GL2A2

Setting Value	Static Pressure [mmAq(Pa)]					
	0 (0)	1 (10)	2 (20)	3 (30)	4 (40)	5 (50)
	Air Flow Rate [m³/min]					
75	6.50	-	-	-	-	-
80	7.34	6.70	-	-	-	-
85	8.20	7.55	6.69	-	-	-
90	9.07	8.43	7.56	6.47	-	-
95	9.96	9.32	8.45	7.36	-	-
100	10.87	10.22	9.36	8.27	6.96	-
105	11.79	11.15	10.28	9.19	7.89	6.35
110	12.73	12.09	11.22	10.14	8.83	7.30
115	13.69	13.05	12.18	11.09	9.78	8.25
120	14.67	14.02	13.16	12.07	10.76	9.23
125	15.66	15.01	14.15	13.06	11.75	10.22
130	16.67	16.02	15.16	14.07	12.76	11.23
135	-	-	16.18	15.10	13.79	12.26
140	-	-	-	16.14	14.83	13.30
145	-	-	-	-	15.89	14.36

Note

1. The above table shows the correlation between the air rates and E.S.P.

◆ AMNQ24GL3A0 / AMNW24GL3A2

Setting Value	Static Pressure [mmAq(Pa)]					
	0 (0)	1 (10)	2 (20)	3 (30)	4 (40)	5 (50)
	Air Flow Rate [m³/min]					
85	10.19	-	-	-	-	-
90	12.18	10.71	11.09	-	-	-
95	13.81	12.34	12.19	-	-	-
100	15.16	13.69	13.38	10.71	-	-
105	16.30	14.83	14.36	11.85	-	-
110	17.31	15.85	15.23	12.86	10.97	-
115	18.27	16.80	16.07	13.82	11.93	-
120	19.26	17.79	16.93	14.80	12.91	10.49
125	20.34	18.87	17.89	15.88	13.99	11.57
130	21.60	20.13	19.01	17.14	15.25	12.83
135	-	21.64	20.36	18.66	16.76	14.35
140	-	-	22.01	20.50	18.61	16.19
145	-	-	-	22.75	20.86	18.44

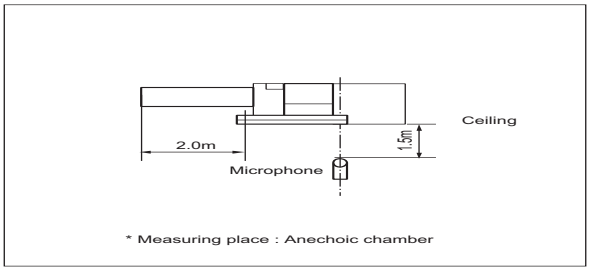
Note

1. The above table shows the correlation between the air rates and E.S.P.

7. Sound levels

7.1 Sound pressure level

■ Overall

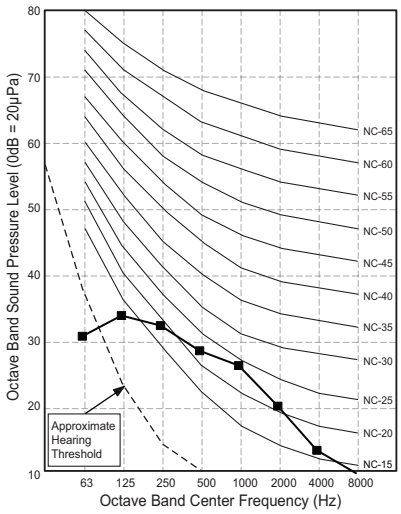


Note

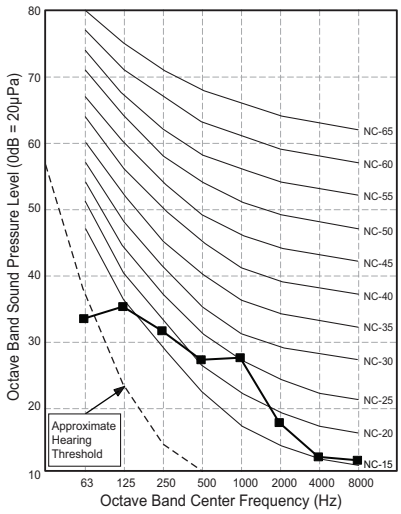
1. Sound measured at some distance away from the center of the unit.
2. Data is valid at free field condition.
3. Reference accoustic pressure 0dB = 20μPa.
4. Data is valid at nominal operation condition.
   Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature,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

Model	50Hz, 220-240V		
	Sound Level [dB(A)]		
	H	M	L
AMNQ09GL1A0 / AMNW09GL1A2	30	26	23
AMNQ12GL2A0 / AMNW12GL2A2	31	28	27
AMNQ18GL2A0 / AMNW18GL2A2	36	34	31
AMNQ24GL3A0 / AMNW24GL3A2	39	35	32

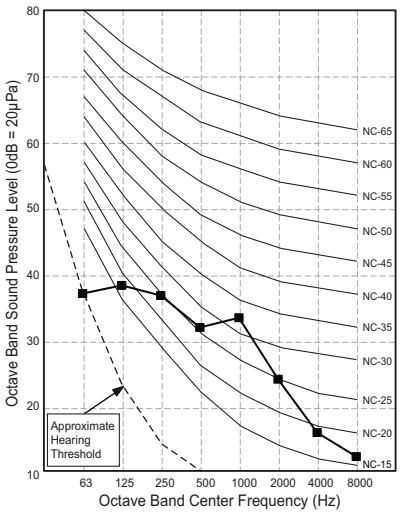
AMNQ09GL1A0
AMNW09GL1A2



AMNQ12GL2A0
AMNW12GL2A2

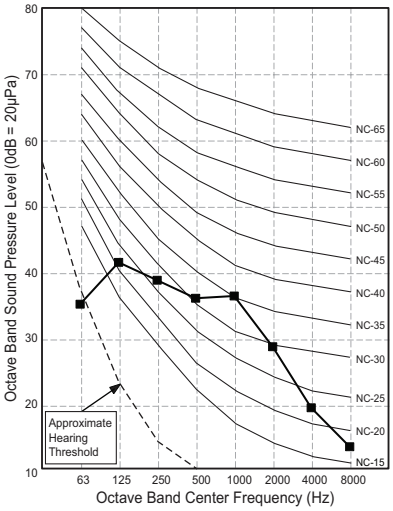


AMNQ18GL2A0
AMNW18GL2A2



7. Sound levels

AMNQ24GL3A0
AMNW24GL3A2



7. Sound levels

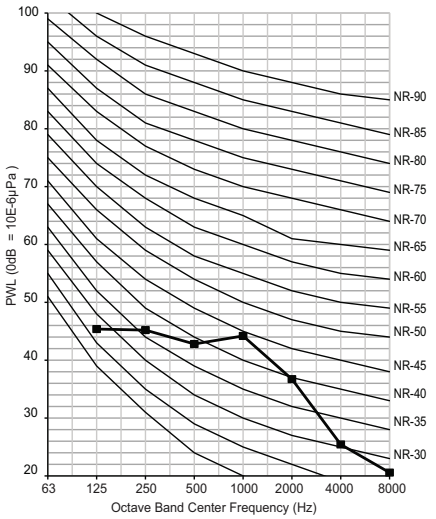
7.2 Sound power level

Note

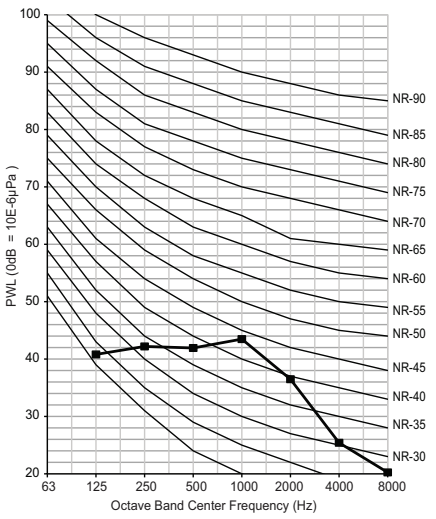
- Data is valid at diffuse field condition
- Data is valid at nominal operating condition
- Sound level can be increased in static pressure mode or used air guide.
- Sound power level is measured on the rated condition in the reverberation rooms.
- Sound level will vary depending on a range of factors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

Model	Sound power level [dB(A)]
	H
AMNQ09GL1A0 / AMNW09GL1A2	49
AMNQ12GL2A0 / AMNW12GL2A2	52
AMNQ18GL2A0 / AMNW18GL2A2	54
AMNQ24GL3A0 / AMNW24GL3A2	58

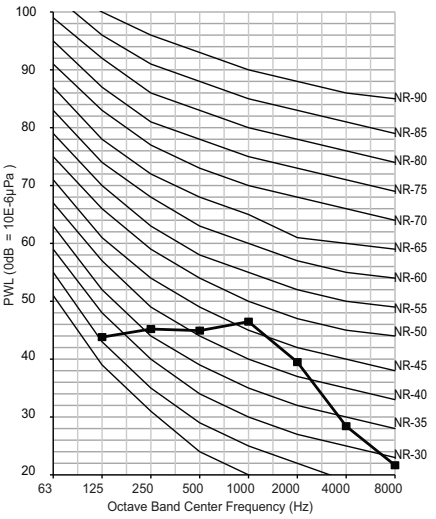
AMNQ09GL1A0
AMNW09GL1A2



AMNQ12GL2A0
AMNW12GL2A2

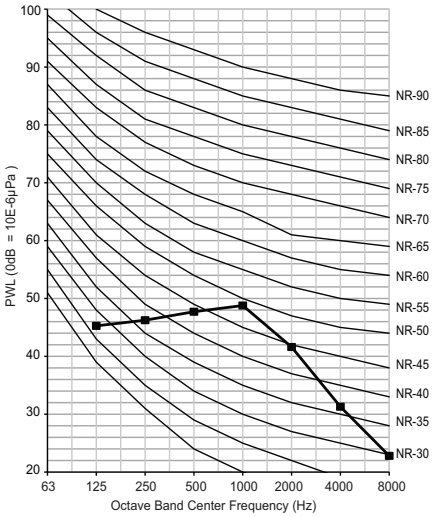


AMNQ18GL2A0
AMNW18GL2A2



7. Sound levels

AMNQ24GL3A0
AMNW24GL3A2

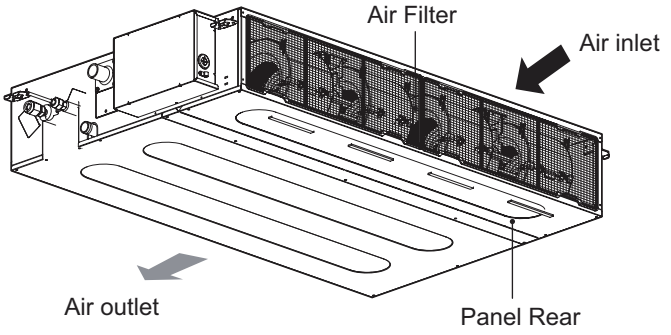


8. Installation

- 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.)

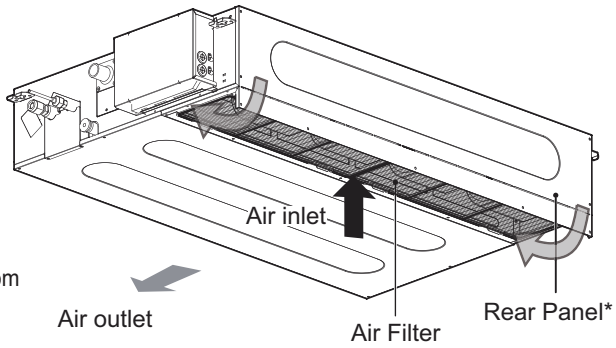
L1/L2/L3 Chassis

In case of air suction from back side



L1/L2/L3 Chassis

In case of air suction from Bottom side



* Rear panel and Air filter should be moved.
The lower part of rear panel should be bent to bottom and fixed with the cabinet case.

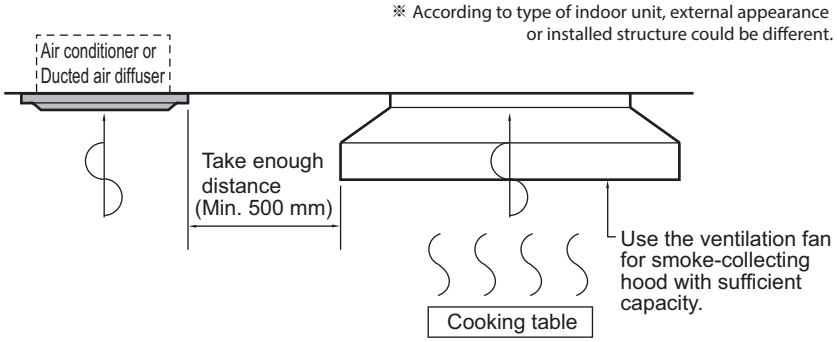
8.1 Selection of the best location

- 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

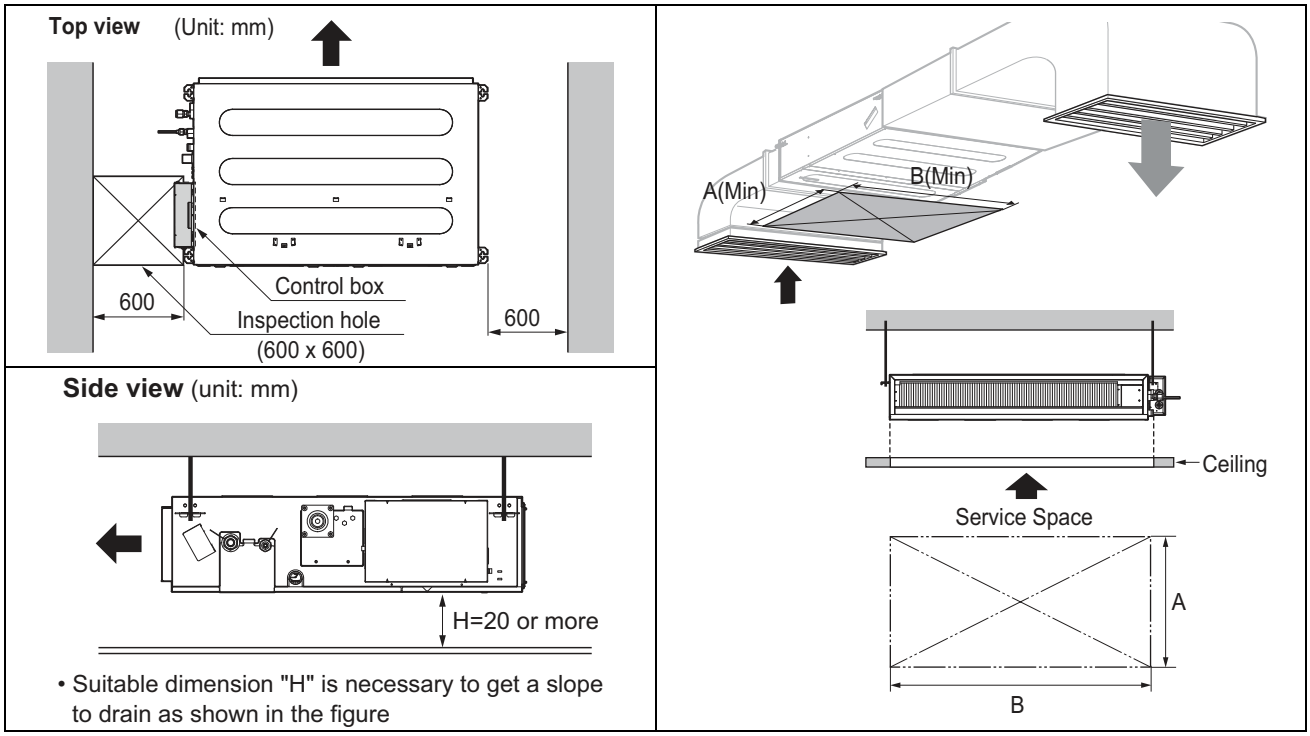
- Make sure that ventilation fan is enough to cover all noxious gases from this place.
- Ensure enough distance from the cooking room to install the air conditioner in such a place where it may not suck oily steam.



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℃ 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.



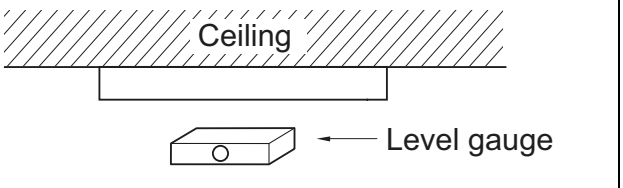
Chassis code	A [mm]	B [mm]
L1	800	800
L2	800	1,000
L3	800	1,200

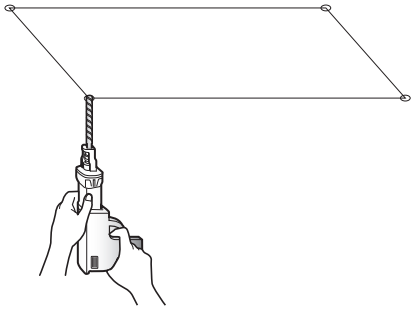
8. Installation

8.2 Ceiling dimension and hanging bolt location

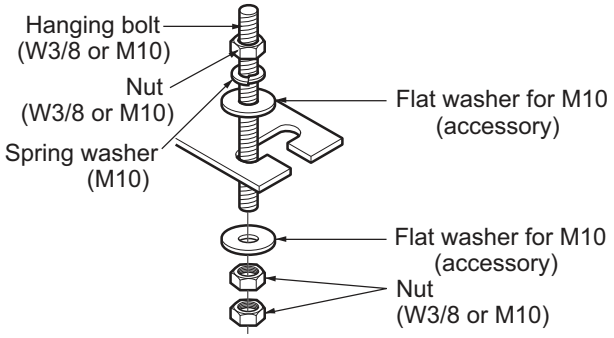
⚠ CAUTION

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





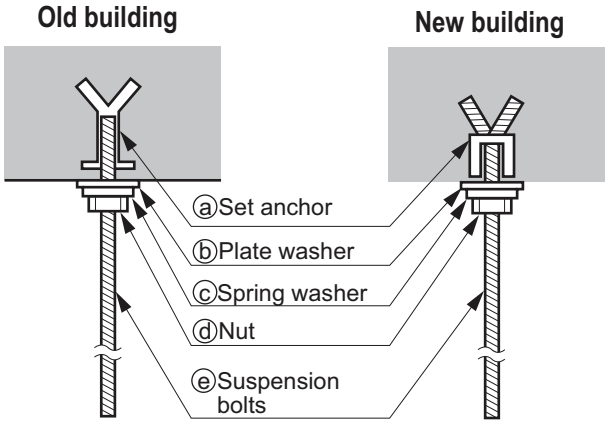
1. The dimensions of the paper model for installation are the same as those of the ceiling opening dimensions.
2. Select and mark the position for fixing bolts and piping hole.
3. Decide the position for fixing bolts slightly tilted to the drain direction after considering the direction of drain hose.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



- 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

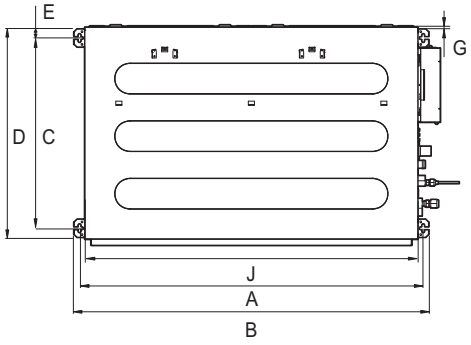
- Tighten the nut and bolt to prevent the unit from falling.

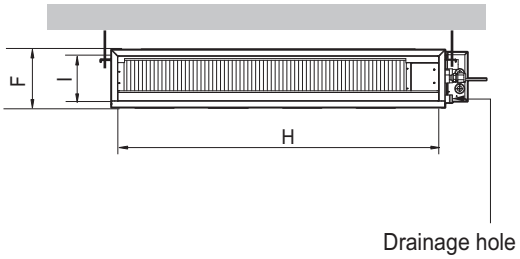


8. Installation

■ Installation of Unit

Install the unit above the ceiling correctly.





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

8.3 Connecting cables between Indoor Unit and Outdoor Unit

8.3.1 General instructions

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

⚠ CAUTION

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

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

8. Installation

8.3.2 Wiring connection

- Connect the wires to the terminals on the control board ind vidually 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 0.75mm^2 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.

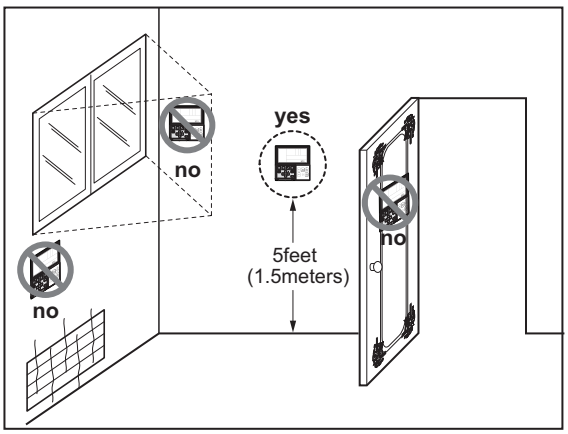
⚠ WARNING

- 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 Wire Remote Controller Installation (Optional)

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

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

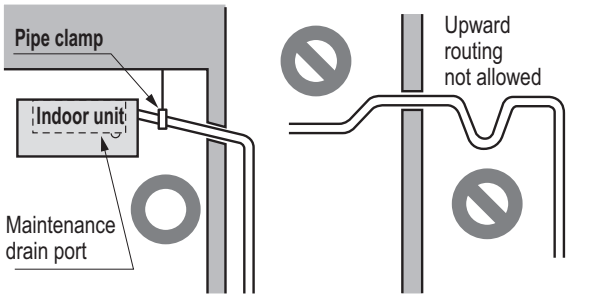


- **Do not install the remote controller where it can be affected by :**
  - – Drafts, or dead spots behind doors and in corners.
  - – Hot or cold air from ducts.
  - – Radiant heat from sun or appliances.
  - – Concealed pipes and chimneys.
  - – Uncontrolled areas such as an outside wall behind the remote controller.
  - – This remote controller is equipped with a seven segment LED. display. For proper display of the remote controller LED's, the remote controller should be installed properly. (The standard height is 1.2~1.5 m from floor level.)

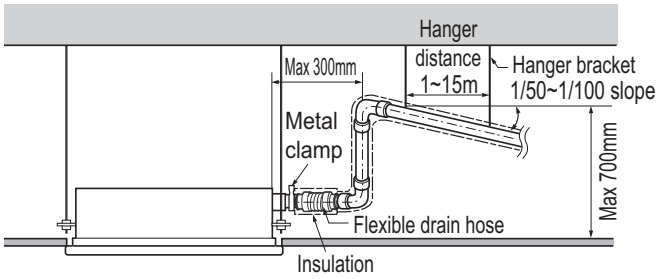
8.4 Indoor Unit Drain Piping

8.4.1 Drain piping of indoor unit with drain pump

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

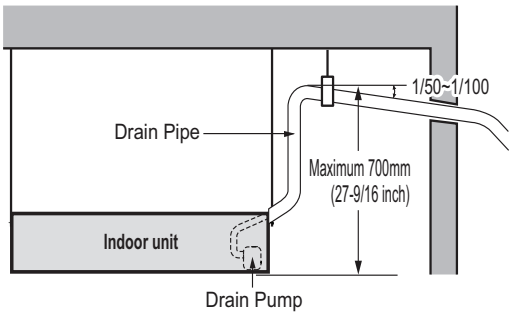


※ According to type of indoor unit, external appearance could be different.

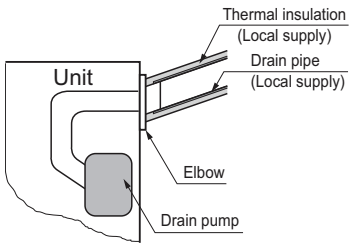


※ According to type of indoor unit, external appearance could be different.

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



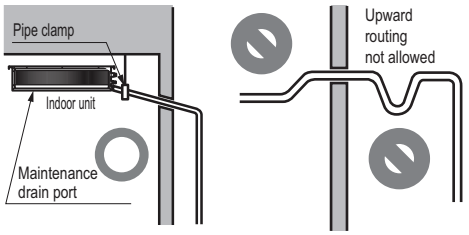
※ According to type of indoor unit, external appearance could be different.



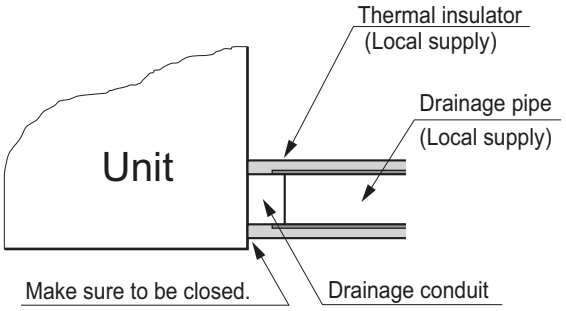
8. Installation

8.4.2 Drain pipe connection without drain pump

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



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



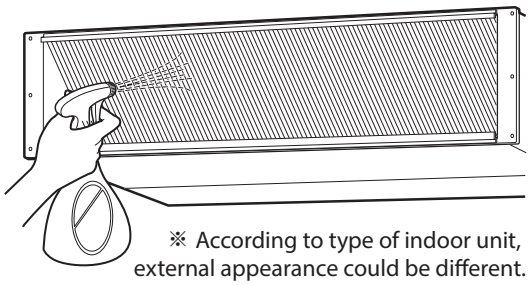
8. Installation

8.4.3 Method of Drainage test

◆ Drainage test of indoor unit

Use the following procedure to test the drainage.

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

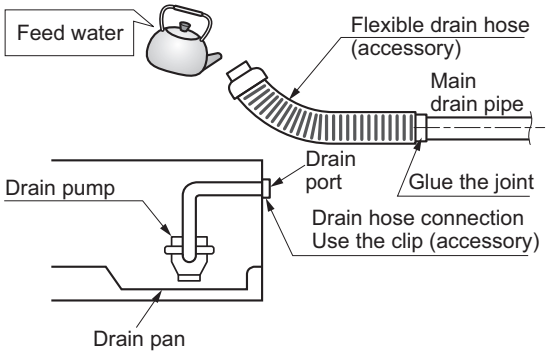


※ According to type of indoor unit, external appearance could be different.

◆ Drainage test of indoor unit with drain pump

Use the following procedure to test the drain pump operation.

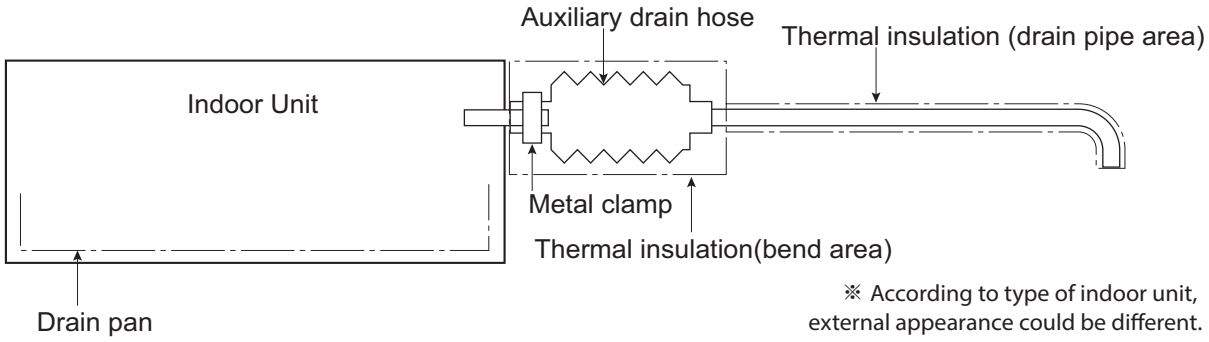
1. Connect the main drain pipe to the exterior and leave it provisionally until the test comes to an end.
2. Feed water to the flexible drain hose and check the piping for leakage.
3. Be sure to check the drain pump for normal operating and noise when electrical wiring is complete.
4. When the test is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

8.4.4 Connection of an auxiliary(flexible) drain hose

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



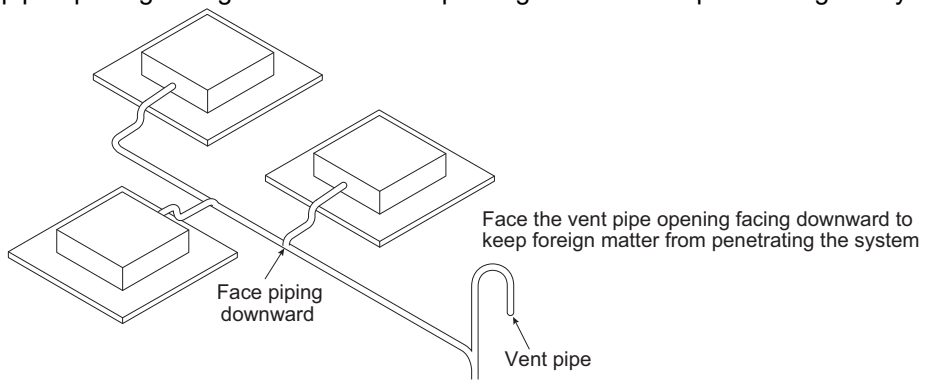
※ According to type of indoor unit, external appearance could be different.

⚠ 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.

8.4.5 Ground drain piping

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



ACCESSORY

Accessory List

1.Air Purification Kit

1. Air Purification Kit

1.1 Specification

Specification		Unit	1way Cassette	
		Chassis	TU	TT
Air Purification Kit Model		-	PTAHTP0	
Air Purification Panel		-	PT-UPHG0	PT-TPHG0
Air Purification capacity (CADR)*		m^3/min	4.92	5.01
PM1.0 Sensor	Size	mm	59 x 45 x 22	
	Supply Voltage	V	5	
	Measure	-	PM1.0 / PM2.5 / PM10	
HVPS	Size	mm	99 X 50 X 30	
	Input	-	DC 12V	
	Output (Electrification / Dust Collection)	-	-7.7kV / -5.2kV	
PM1.0 Filter	Size	mm	524 x 18 x 141	
	Weight	g	430	
Deodorization filter	Material	-	Pulp + Carbon (Corrugate)	
	Size	mm	301 x 11 x 100	
	Weight	g	40	
	Efficiency**	%	54	54
Ionizer	Size	mm	71 x 19 x 30	
	Input	-	DC 12V	
	Output	-	-3.2kV	
	Amount of Ion emission	EA/cc	3,000,000	

Specification		Unit	4way Cassette				
		Chassis	TP	TN	TM	TPB	TMA
Air Purification Kit Model		-	PTAHMP0				
Air Purification Panel		-	PT-MPGW0 (U-style)			PT-AFGW0(Dual Vane)	
Air Purification capacity (CADR)*		m^3/min	9.8	17.3	19.1	14.7	19.6
PM1.0 Sensor	Size	mm	59 x 45 x 22				
	Supply Voltage	V	5				
	Measure	-	PM1.0 / PM2.5 / PM10				
HVPS	Size	mm	99 X 50 X 30				
	Input	-	DC 12V				
	Output (Electrification / Dust Collection)	-	-7.7kV / -5.2kV				
PM1.0 Filter	Size	mm	500 x 38 x 395				
	Weight	g	2,090				
Deodorization filter	Material	-	Pulp + Carbon (Corrugate)				
	Size	mm	478 x 14 x 138				
	Weight	g	180				
	Efficiency**	%	63	62	61	93	86
Ionizer	Size	mm	71 x 19 x 30				
	Input	-	DC 12V				
	Output	-	-3.2kV				
	Amount of Ion emission	EA/cc	3,000,000				

Note

*, ** : Those are certified the representative model of each chassis by Korea Air Cleaning Association

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

Printed in Korea November / 2021

The air conditioners manufactured by LG have received ISO9001 certificate for quality assurance and ISO14001 certificate for environmental management system.
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