

Heat pump, R410A

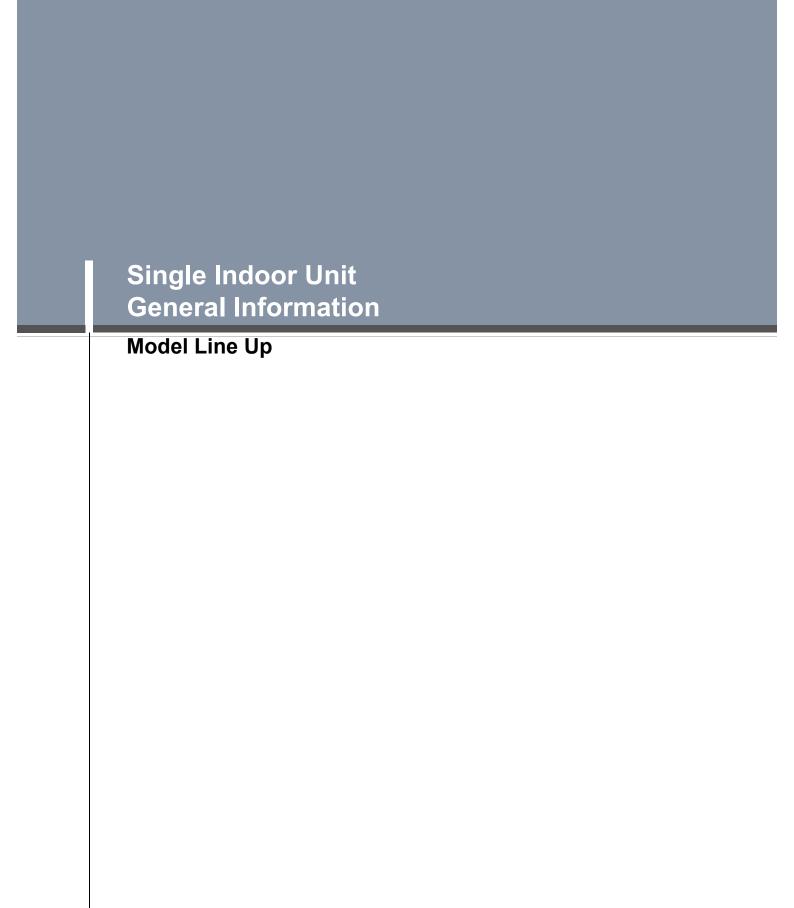
MFL67986347

TOTAL HVAC SOLUTION PROVIDER ENGINEERING PRODUCT DATA BOOK



Region : Brazil

Published on May. 27, 2024



1. Model Line Up

Product	Chassis	Capacity Index	Model Name
		kW	
Ceiling Cassette 1-Way	тт	5.3	ATNW18GTLP1
Cenning Cassette 1-vvay	''	7.0	ATNW24GTLP1
	TP	5.3	ATNW18GPLP1
	I IP	7.0	ATNW24GPLP1
Ceiling Cassette 4-Way	TN	10.6	ATNW36GNLP1
	ТМ	14.1	ATNW48GMLP1
		17.6	ATNW60GMLP1
	VM1	10.6	AVNW36GM1P1
Ceiling Suspended	VM2	14.1	AVNW48GM2P1
	VIVIZ	17.6	AVNW60GM2P1
Coiling Coppetto Round	TY	10.6	ATNW36GYLP1
Ceiling Cassette Round	' ' '	17.6	ATNW60GYLP1

^{*} The capacity index may differ from actual capacity values.

1

Product Data

Ceiling Cassette 1-Way

Ceiling Cassette 4-Way

Ceiling Suspended

Ceiling Cassette Round

Ceiling Cassette 1-Way

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

1.1 Product

ATNW18GTLP1

Category		Unit	Specification
Major	Minor	Onit	Specification
Classification	Chassis	-	ТТ
	Case 1	-	220, 1, 60
	Case 2	-	-
Power Supply	Limit Range of Voltage(Case 1)	V	198 ~ 242
	Limit Range of Voltage(Case 2)	V	-
		kW	4.69
Cooling Capacity	Nominal	Btu/h	16,000
		kW	5.28
Heating Capacity	Nominal	Btu/h	18,000
Power Input(Indoor)	H/M/L	W	-
Running Current	H/M/L	A	-
	Туре	-	CFF
	Quantity	EA	1
ndoor Fan	Air Flow Rate((SH)/H/M/L)	m³/min	- / 13.3 / 11.8 / 10.8
	Air Flow Rate Range(Min~Max)	m³/min	10.8~13.3
	External Static Pressure_Factory Set	Pa	-
	Туре	-	BLDC
	Drive	-	-
ndoor Fan Motor		W	30
	Output	No.	1
Dehumidification Rate	-	ℓ/h	-
	Rows x Columns x FPI	-	2 x 12 x 18
Heat Exchanger	No.	_	1
	Fin Type	-	Slit(Half)
	Face Area	m²	0.24
	Net(W x H x D)	mm	1,180 x 132 x 450
Dimensions	Shipping(W x H x D)	mm	1,445 x 252 x 538
	Net	kg	14.5
Veight	Shipping	kg	17.5
	Color	-	White
Exterior	RAL (Classic)	_	RAL 9003
Air Filter	Type	_	Long Life
ui i iici	Fuse	-	O O
Protection Device	Overload Protector for Fan Motor	-	Thermal Protector for Fan Motor
	Type	-	R410A
Refrigerant	Control Type	-	INTION
Drain Pipe(Natural Drainage)	O.D / I.D	mm(inch)	
Drain Pipe(Ivatural Brainage) Drain Pipe(using Drain Pump)	O.D / I.D	mm(inch)	Φ32(1-1/4)/Φ25(31/32)
Drain Fipe(using Drain Fump)	Liquid	mm(inch)	Φ6.35 (1/4)
	Gas	 	Φ12.7 (1/2)
Pipe Connecting Socket	Connection Type(Liquid)	mm(inch)	Ψ12.7 (1/2) Flare
	Connection Type(Cas)		Flare
	Cooling ((SH)/H/M/L)	- dB(A)	- / 45.0 / 42.0 / 39.0
Sound Pressure Level(Indoor Unit)		dB(A)	- / 45.0 / 42.0 / 39.0
Maggiromont Standard (Decesion Less	Heating ((SH)/H/M/L)	dB(A)	- / 40.0 / 42.0 / 39.0
Measurement Standard (Pressure Leve)	-	-	ISO 3745
	Cooling ((SH)/H/M/L)	dB(A)	-
Sound Power Level(Indoor Unit)	Heating ((SH)/H/M/L)	dB(A)	-
Measurement Standard (Power Level)	1-	-	_

Category Minor		Unit	Specification
		Oille	
Connecting Cable	Power and Communication cable(H07RN-F)	mm² × cores	0.75 x 4
Power Supply Type to Indoor	-	-	-
Electrical Characteristic	Indoor Fan Motor_Full Load Amperes (FLA)	А	0.6

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

Ceiling Cassette 1-Way

1. Specifications

ATNW24GTLP1

Category			Our - iff - sti- u	
Major	Minor	Unit	Specification	
Classification	Chassis	-	ТТ	
	Case 1	-	220, 1, 60	
Davier County	Case 2	-	-	
Power Supply	Limit Range of Voltage(Case 1)	V	198 ~ 242	
	Limit Range of Voltage(Case 2)	V	-	
		kW	6.16	
Cooling Capacity	Nominal	Btu/h	21,000	
2		kW	6.74	
Heating Capacity	Nominal	Btu/h	23,000	
Power Input(Indoor)	H/M/L	W	-	
Running Current	H/M/L	А	-	
	Туре	-	CFF	
	Quantity	EA	1	
Indoor Fan	Air Flow Rate((SH)/H/M/L)	m³/min	- / 16.0 / 14.0 / 12.0	
	Air Flow Rate Range(Min~Max)	m³/min	12.0~16.0	
	External Static Pressure_Factory Set	Pa	-	
	Туре	-	BLDC	
	Drive	-	-	
Indoor Fan Motor		W	30	
	Output	No.	1	
Dehumidification Rate	-	ℓ/h	-	
	Rows x Columns x FPI	-	2 x 12 x 18	
	No.	-	1	
Heat Exchanger	Fin Type	-	Slit(Half)	
	Face Area	m²	0.24	
	Net(W x H x D)	mm	1,180 x 132 x 450	
Dimensions	Shipping(W x H x D)	mm	1,445 x 252 x 538	
	Net	kg	14.5	
Weight	Shipping	kg	17.5	
	Color	-	White	
Exterior	RAL (Classic)	-	RAL 9003	
Air Filter	Туре	_	Long Life	
	Fuse	-	0	
Protection Device	Overload Protector for Fan Motor	-	Thermal Protector for Fan Motor	
	Туре	-	R410A	
Refrigerant	Control Type	_	-	
Drain Pipe(Natural Drainage)	O.D / I.D	mm(inch)	-	
Drain Pipe(using Drain Pump)	O.D / I.D	mm(inch)	Ф32(1-1/4)/Ф25(31/32)	
1, 3	Liquid	mm(inch)	Ф9.52 (3/8)	
	Gas	mm(inch)	Ф15.88 (5/8)	
Pipe Connecting Socket	Connection Type(Liquid)	-	Flare	
	Connection Type(Gas)	_	Flare	
	Cooling ((SH)/H/M/L)	dB(A)	- / 46.0 / 43.0 / 40.0	
Sound Pressure Level(Indoor Unit)	Heating ((SH)/H/M/L)	dB(A)	-/46.0/43.0/40.0	
Measurement Standard (Pressure Leve	-	-	ISO 3745	
1)	Cooling ((SU)/U/M/L)	dD(A)		
Sound Power Level(Indoor Unit)	Cooling ((SH)/H/M/L)	dB(A)	-	
Manager Manager (Device Level)	Heating ((SH)/H/M/L)	dB(A)	-	
Measurement Standard (Power Level)	Power and Communication as LL (107DN 5)	- mm² v coroo	- 0.75 × 4	
Connecting Cable	Power and Communication cable(H07RN-F)	mm² × cores	0.75 x 4	
Power Supply Type to Indoor	-	-	-	

Category		Unit	Specification
Major	Minor		
Electrical Characteristic	Indoor Fan Motor_Full Load Amperes (FLA)	Α	0.6

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

2. List of Functions

ATNW18GTLP1, ATNW24GTLP1

Category	Functions	Availability
	Air Supply Outlet	1
	Airflow Direction Control (left & right)	Auto
	Airflow Direction Control (up & down)	Auto
	Auto Swing (left & right)	0
	Auto Swing (up & down)	0
	Airflow Steps (fan/cool/heat)	4/5/4
A in Elever	Fan Speed Auto*	Advanced
Air Flow	Power Cool/Heat	O/X
	Swirl Wind*	X
	Refresh Mode**	X
	Smart Mode**	X
	Indirect Wind*	0
	Direct Wind*	0
	Dry Operation	0
	Pre-Filter	0
Air Douisi ti	Air Purify	Accessory
Air Purification	Ionizer	X
	UVnano	X
Delie bille	Hot Start	0
Reliability	Self Diagnosis	0
	Auto Mode	0
	Auto Dry Operation**	0
	Auto Restart	0
	Child Lock*	0
	Forced Operation	0
	Group Control*	0
Convenience	Sleep Timer**	0
	Turn On/Off Reservation**	0
	Schedule**	0
	Two Thermistor Control*	0
	Time Limit Control (Energy saving)***	0
	Temperature Setback Timer (Energy saving)***	-
	External On/Off	0
	Drain Pump	0
Installation	High Ceiling Operation*	0
	Duty Rotation / Back up Operation***	-
	Wi-Fi Control	Accessory
	Comfort Cooling (Humidity Control)***	0
Special Functions	Auto Elevation Grille	X
	Human Detection Function***	X
	Floor Detection Function***	X

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

- Auto Intensity Control(Cooling Only Outdoor Unit)

2. List of Functions

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

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

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

3. Accessory Compatibility List

ATNW18GTLP1, ATNW24GTLP1

Category	Accessory Name	Model Name	Description	Compatibility
		PREMTA000	-	0
	Wired - Premium	PREMTA000A	-	0
		PREMTA000B	-	0
		PREMTB100/PREMTB 101	White	0
	Wired - RS3 (Standard III)	CREMTB100	White	0
		PREMTBB10/PREMT BB11	Black	0
		PREMTB001	White	0
Remote Controller	Wired - RS2 (Standard II)	CREMTB001	White	0
Remote Controller		PREMTBB01	Black	0
	Wired Cimple	PQRCVCL0QW	White	0
	Wired - Simple	PQRCVCL0Q	Black	0
	Wined Cincula for botal	PQRCHCA0QW	White	0
	Wired - Simple for hotel	PQRCHCA0Q	Black	0
		PQWRCQ0FDB	For Cooling only	Х
	Window	PQWRHQ0FDB	For Heat pump	0
	Wireless	PWLSSB21C	For Cooling only	Х
		PWLSSB21H	For Heat pump	0
	Oiman I a	PDRYCB000	1 input port, AC 220 - 240V	0
	Simple	PDRYCB100	1 input port, AC 24V	0
D 0 4 4		PDRYCB400	2 input port(For Setback)	0
Dry Contact	0	PDRYCB300	8 input port, For 3rd party Themostat	0
	Communication	PDRYCB320	8 input port, For 3rd Party Thermostat (Analog Input)	0
		PDRYCB500	For 3rd Party Controller(Modbus RTU)	Х
	Remote Temperature sensor	PQRSTA0	Room temperature sensor, NTC 10kΩ, include casing	0
Integration Device	Group Control wire	PZCWRCG3	Cable Assembly for group control (Y-type cable : 0.25m, cable : 9.6m)	0
	Extension wire	PZCWRC1	Extension wire for IDU-wired remote controller (9.6m)	Х
	2-Remo Control wire	PZCWRC2	Y-type cable to connect additional Remote Controller as slave	Х
	Wi-Fi Modem	PWFMDD200	Device to use ThinQ app include connection cable	0
	Wi-Fi Extension cable	PWYREW000	USB Extension cable : 10 m	Х
	Independent Power Module	PRIP0	For Multi V Indoor Unit	Х
	Multi-tenant Power module	PINPMB001	For Multi V Indoor Unit	Х
	Refrigerant Leakage Detector	PRLDNVS0	For Multi V Indoor Unit (R410A)	Х
	Human Detection Sensor	PTVSMA0	For Cassette 4-way	Х
	Truman Detection Sensor	PTVSAA0	For Cassette Dual Vane 4-way	Х
	Floor Detection Sensor	PTFSMA0	For Cassette Dual Vane 4-way	Х
ETC	Auto Elevation Grille	PTEGM0	For Cassette 4-way	Х
		PTAHTP0	For Cassette 1-way	0
	Air Purification Kit	РТАНМР0	For Cassette 4-way	Х
		PTAHYP0	For Cassette Round	Х
	EEV Kit	PRGK024A0	For Multi V Indoor Unit	Х
	Auxiliary Heater Relay Kit	PRARS1	For Wall Mounted / Art Cool Indoor Units	Х
	Maximal y Floator Telay Mit	PRARH1	For Cassette / Duct Indoor Units	Х
	Ventilation Kit	PTVK430	For TR/TQ/TP/TN/TM Chassis	Х
	vonulation fait	PTVK410 / PTVK420	For TP/TN/TM Chassis	Х
		PTDCQ	For TR/TQ Chassis	Х
	Cassette Cover	PTDCM	For TP/TN/TM Chassis	Х
			For TM-A/TP-B Chassis	Х

Note

■ O: Possible, X: Impossible, -: Unconfirmed or irrelevant.

3. Accessory Compatibility List

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

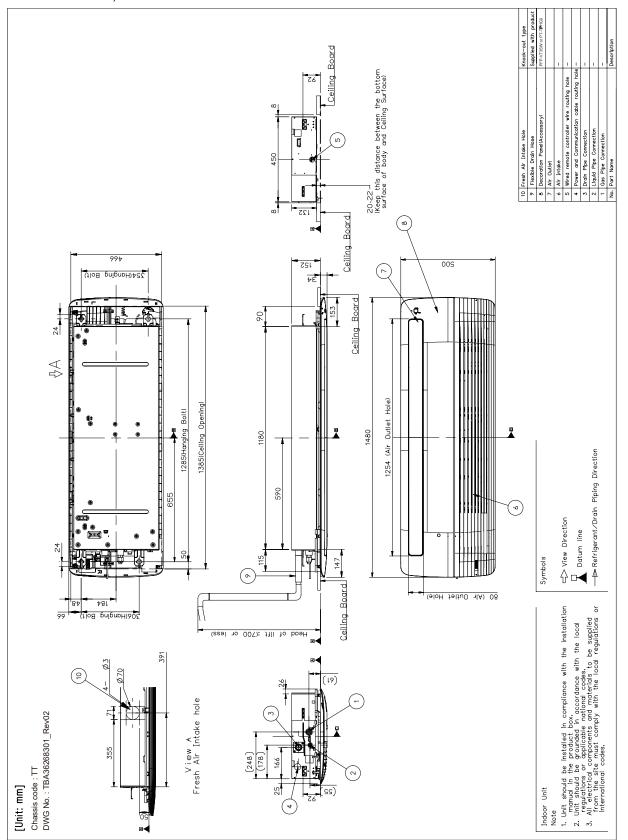
 Air Purification Kit and Auto Elevation Grille are not appliable at the same time.

 If there is a difference in development time between the product and the remote controller, some functions cannot be operated.

 If you need more detail, please refer to the Control(BECON) PDB or the manual of product.

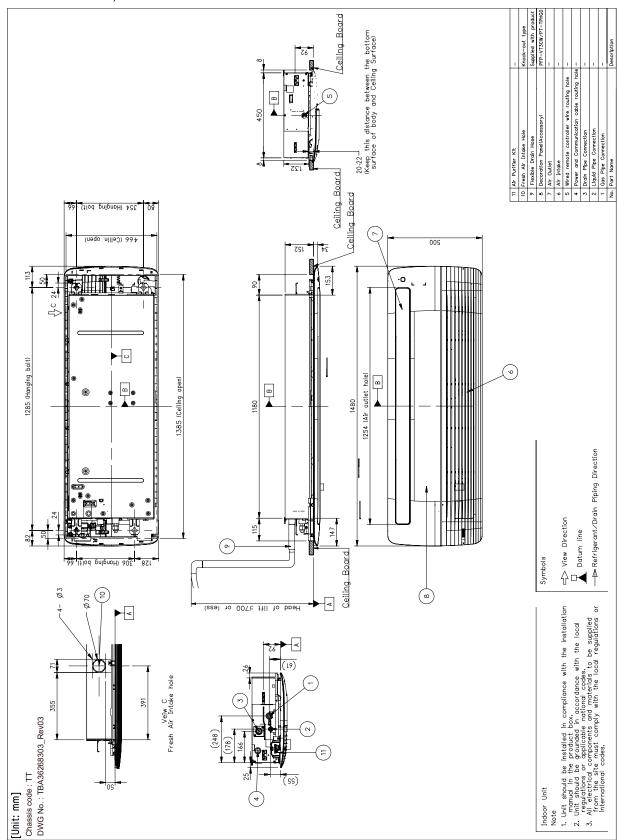
 (http://partner.lge.com > Select Your Region : Home> Doc.Library> Product > Control(BECON)).

4.1 Dimensional Drawing (PT-TAHG0)

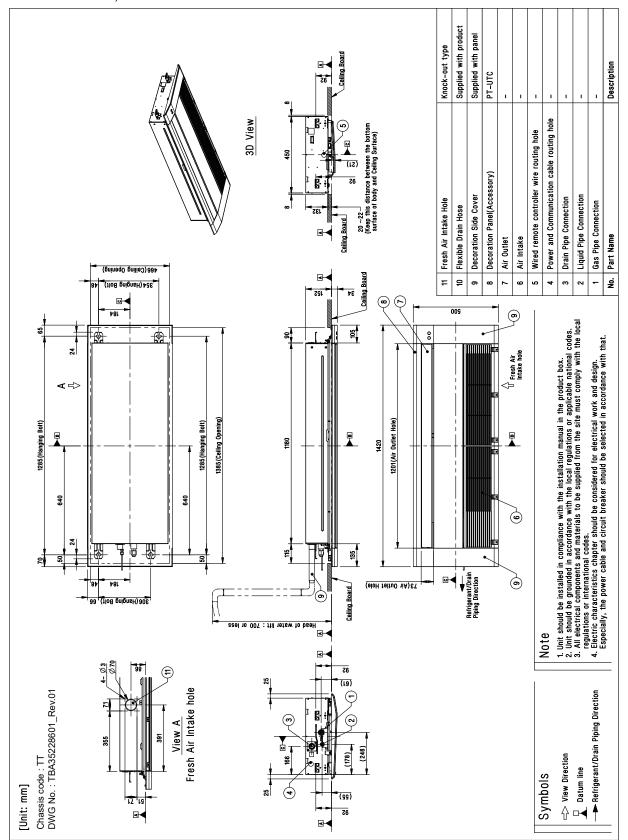


4. Dimensions

4.2 Dimensional Drawing (PT-TPHG0)



4.3 Dimensional Drawing (PT-UTC)

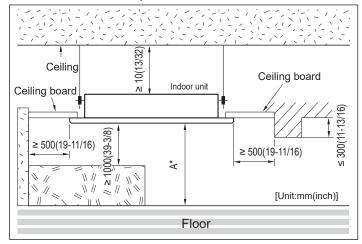


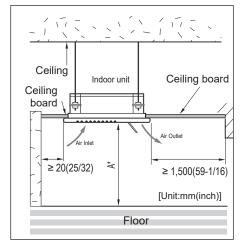
4. Dimensions

4.4 Installation Space

ATNW18GTLP1, ATNW24GTLP1

< Minimum Installation Space >





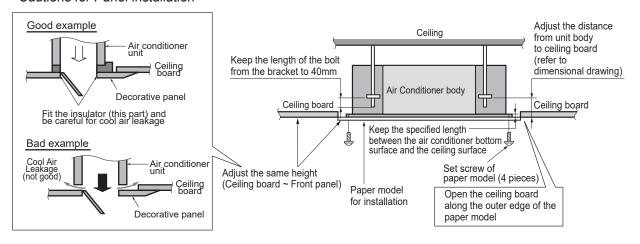
Notes

1. *: A, Installation Height from the floor

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

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

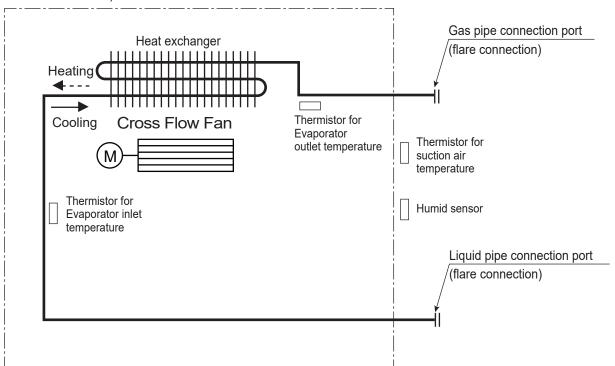
< Cautions for Panel installation >



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

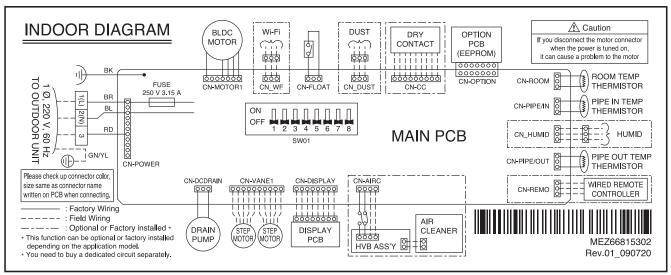
5. Piping Diagrams

5.1 Normal



6. Wiring Diagrams

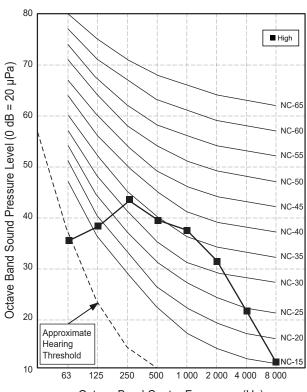
6.1 Product



7. Sound Levels

7.1 Pressure Levels

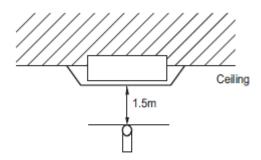
ATNW18GTLP1



Octave Band Center Frequency (Hz)

Sound level [dB(A), @ Standard condition]		
Cooling ((SH)/H/M/L)	- / 45.0 / 42.0 / 39.0	
Heating ((SH)/H/M/L)	- / 45.0 / 42.0 / 39.0	

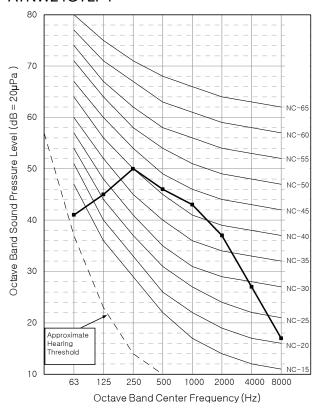
- Sound measured at some distance away from the center of the unit.
- Data is valid at free field condition.
- Reference accoustic pressure 0dB = 20µPa.
- Data is valid at nominal operation condition.
- Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
- Sound levels can be increased in accordance with installation and operating conditions. (Static pressure mode, used air guide, Room target temperature setting, etc)
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.



^{*} Measuring place : Anechoic chamber

7. Sound Levels

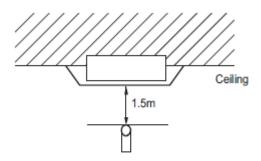
ATNW24GTLP1



Sound level [dB(A), @ Standard condition]			
Cooling ((SH)/H/M/L)	- / 46.0 / 43.0 / 40.0		
Heating ((SH)/H/M/L)	- / 46.0 / 43.0 / 40.0		

Note

- Sound measured at some distance away from the center of the unit.
- Data is valid at free field condition.
- Reference accoustic pressure 0dB = 20μ Pa.
- Data is valid at nominal operation condition.
 - Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
- Sound levels can be increased in accordance with installation and operating conditions. (Static pressure mode, used air guide, Room target temperature setting, etc)
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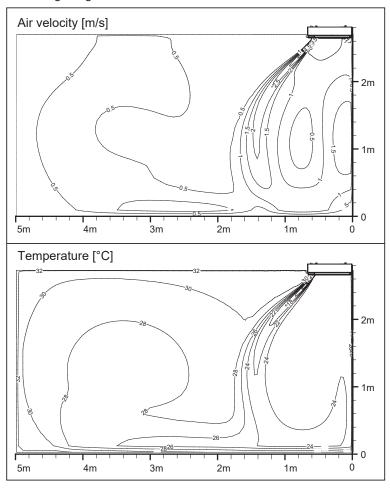


* Measuring place : Anechoic chamber

8.1 Cooling Operation

ATNW18GTLP1

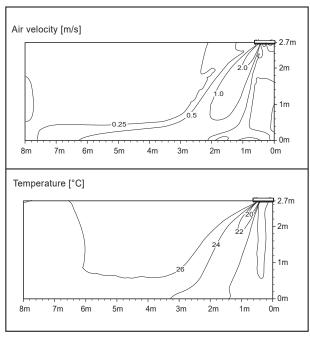
Discharge angle: 50°



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

ATNW24GTLP1

Discharge angle: 50°

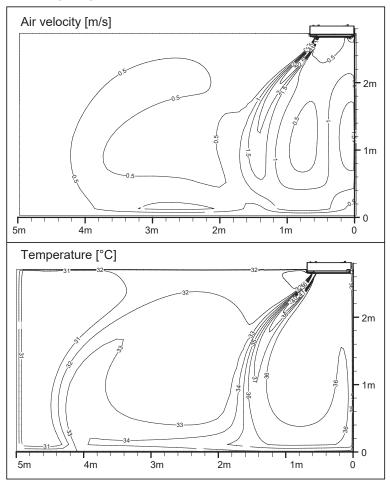


- These figures are accordance with normal certain condition and environment. (Airflow step is 'High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation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

8.2 Heating Operation

ATNW18GTLP1

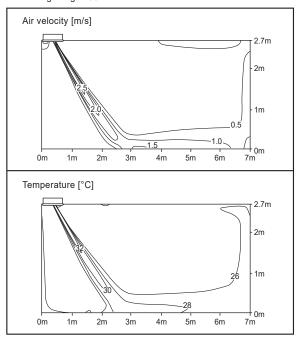
Discharge angle: 60°



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

ATNW24GTLP1

Discharge angle: 60°



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

Ceiling Cassette 4-Way

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

1.1 Product

ATNW18GPLP1

Category		Unit	Charification
Major	Minor	Onit	Specification
Classification	Chassis	-	TP
	Case 1	-	220, 1, 60
	Case 2	-	-
Power Supply	Limit Range of Voltage(Case 1)	V	198~242
	Limit Range of Voltage(Case 2)	V	-
		kW	5.28
Cooling Capacity	Nominal	Btu/h	18,000
		kW	5.28
Heating Capacity	Nominal	Btu/h	18,000
Power Input(Indoor)	H/M/L	W	-
Running Current	H/M/L	A	-
	Туре	-	2D Turbo
	Quantity	EA	1
ndoor Fan	Air Flow Rate((SH)/H/M/L)	m³/min	- / 16.5 / 14.5 / 13.0
	Air Flow Rate Range(Min~Max)	m³/min	13.0~16.5
	External Static Pressure_Factory Set	Pa	-
	Туре	-	BLDC
	Drive	_	
ndoor Fan Motor		W	50.3
	Output	No.	1
 Dehumidification Rate	-	ℓ/h	1.30
onamidinous in Nato	Rows x Columns x FPI	-	2 x 8 x 19
Heat Exchanger	No.	-	1
	Fin Type	-	Louver
	Face Area	m²	0.35
	Net(W x H x D)		840 x 204 x 840
Dimensions		mm	
	Shipping(W x H x D)	mm	922 x 276 x 917
Veight	Net	kg .	21.5
	Shipping	kg	26.0
Exterior	Color	-	Morning Fog
	RAL (Classic)	-	RAL 9001
Air Filter	Туре	-	Long Life
Protection Device	Fuse	-	0
	Overload Protector for Fan Motor	-	Thermal Protector for Fan Motor
Refrigerant	Туре	-	R410A
	Control Type	-	-
Orain Pipe(Natural Drainage)	O.D / I.D	mm(inch)	<u>-</u>
Orain Pipe(using Drain Pump)	O.D / I.D	mm(inch)	32.0 / 25.0
	Liquid	mm(inch)	Ф6.35 (1/4)
Pipe Connecting Socket	Gas	mm(inch)	Ф12.7 (1/2)
The definitioning desires	Connection Type(Liquid)	-	Flare
	Connection Type(Gas)	-	Flare
Sound Pressure Level(Indoor Unit)	Cooling ((SH)/H/M/L)	dB(A)	- / 36.0 / 34.0 / 32.0
	Heating ((SH)/H/M/L)	dB(A)	- / 36.0 / 34.0 / 32.0
Measurement Standard (Pressure Leve)	-	-	ISO 3745
Cound Down Lovel/Index - Unit	Cooling ((SH)/H/M/L)	dB(A)	-
Sound Power Level(Indoor Unit)	Heating ((SH)/H/M/L)	dB(A)	-
Measurement Standard (Power Level)	1-	-	

Category		Unit	Specification
Major	Minor	Onit	Specification
Connecting Cable	Power and Communication cable(H07RN-F)	mm² × cores	0.75 x 4
Power Supply Type to Indoor	-	-	-
	Maximum Fuse Amperes (MFA)	А	15
Electrical Characteristic	Indoor Fan Motor_Full Load Amperes (FLA / Ma x)	А	0.6

- Due to our policy of innovation some specifications may be changed without notification.
 Wiring cable size must comply with the applicable local and national code.
 And "Electric characteristics" should be considered for electrical work and design.

- Especially the power cable and circuit breaker should be selected in accordance with that.
 Sound Level Values are measured at Noise Measuring chamber accordance with standard.
 Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.

ATNW24GPLP1

	Category	Unit	Specification
Major	Minor		Specification
Classification	Chassis	-	TP
	Case 1	-	220, 1, 60
D 0 1	Case 2	-	-
Power Supply	Limit Range of Voltage(Case 1)	V	198~242
	Limit Range of Voltage(Case 2)	V	-
		kW	7.03
Cooling Capacity	Nominal	Btu/h	24,000
		kW	7.62
Heating Capacity	Nominal	Btu/h	26,000
Power Input(Indoor)	H/M/L	w	
Running Current	H/M/L	A	-
	Туре	_	2D Turbo
	Quantity	EA	1
Indoor Fan	Air Flow Rate((SH)/H/M/L)	m³/min	- / 17.0 / 15.0 / 13.0
massi i an	Air Flow Rate Range(Min~Max)	m³/min	13.0~17.0
	External Static Pressure_Factory Set	Pa	-
	Type	-	BLDC
	Drive	-	-
Indoor Fan Motor	Drive		
	Output	W	50.3
		No.	1
Dehumidification Rate	-	ℓ/h	2.40
	Rows x Columns x FPI	-	2 x 8 x 19
Heat Exchanger	No.	-	1
· ·	Fin Type	-	Louver
	Face Area	m²	0.35
Dimensions	Net(W x H x D)	mm	840 x 204 x 840
	Shipping(W x H x D)	mm	922 x 276 x 917
Weight	Net	kg	21.5
	Shipping	kg	26.0
Exterior	Color	-	Mornig Fog
Exterior	RAL (Classic)	-	RAL 9001
Air Filter	Туре	-	Long Life
Protection Device	Fuse	-	0
Protection Device	Overload Protector for Fan Motor	-	Thermal Protector for Fan Motor
Defrimenent	Туре	-	R410A
Refrigerant	Control Type	-	-
Drain Pipe(Natural Drainage)	O.D / I.D	mm(inch)	-
Drain Pipe(using Drain Pump)	O.D / I.D	mm(inch)	32.0 / 25.0
	Liquid	mm(inch)	Ф9.52 (3/8)
	Gas	mm(inch)	Ф15.88 (5/8)
Pipe Connecting Socket	Connection Type(Liquid)	-	Flare
	Connection Type(Gas)	-	Flare
Sound Pressure Level(Indoor Unit)	Cooling ((SH)/H/M/L)	dB(A)	- / 38.0 / 36.0 / 34.0
	Heating ((SH)/H/M/L)	dB(A)	- / 38.0 / 36.0 / 34.0
Measurement Standard (Pressure Leve I)		-	ISO 3745
<i>'</i>	Cooling ((SH)/H/M/L)	dB(A)	
Sound Power Level(Indoor Unit)			<u> </u>
Magaziromant Standard (Device Level)	Heating ((SH)/H/M/L)	dB(A)	
Measurement Standard (Power Level)		-	
Connecting Cable	Power and Communication cable(H07RN-F)	mm² × cores	0.75 x 4
Power Supply Type to Indoor	-	-	-

Category		Unit	Charification
Major	Minor	Offic	Specification
Electrical Characteristic	Maximum Fuse Amperes (MFA)	Α	25
	Indoor Fan Motor_Full Load Amperes (FLA / Ma x)	А	0.6

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

Ceiling Cassette 4-Way

1. Specifications

ATNW36GNLP1

	Category	1114	On a lift and an
Major	Minor	Unit	Specification
Classification	Chassis	-	TN
	Case 1	-	220, 1, 60
	Case 2	-	-
Power Supply	Limit Range of Voltage(Case 1)	V	198~242
	Limit Range of Voltage(Case 2)	V	-
		kW	9.09
Cooling Capacity	Nominal	Btu/h	31,000
		kW	10.55
Heating Capacity	Nominal	Btu/h	36,000
Power Input(Indoor)	H/M/L	W	-
Running Current	H/M/L	А	-
	Туре	-	2D Trubo
	Quantity	EA	1
Indoor Fan	Air Flow Rate((SH)/H/M/L)	m³/min	- / 23.0 / 21.0 / 19.0
	Air Flow Rate Range(Min~Max)	m³/min	19.0~23.0
	External Static Pressure_Factory Set	Pa	-
	Туре	-	BLDC
	Drive	-	-
Indoor Fan Motor	_	W	124
	Output	No.	1
Dehumidification Rate	-	ℓ/h	2.50
	Rows x Columns x FPI	-	2 x 10 x 19
	No.	-	1
Heat Exchanger	Fin Type	-	Louver
	Face Area	m²	0.43
	Net(W x H x D)	mm	840 x 246 x 840
Dimensions	Shipping(W x H x D)	mm	922 x 318 x 917
	Net	kg	25.5
Weight	Shipping	kg	29.7
	Color	-	Morning Fog
Exterior	RAL (Classic)	-	RAL 9001
Air Filter	Туре	-	Long Life
	Fuse	-	0
Protection Device	Overload Protector for Fan Motor	_	Thermal Protector for Fan Motor
	Туре	_	R410A
Refrigerant	Control Type	_	
Drain Pipe(Natural Drainage)	O.D / I.D	mm(inch)	
Drain Pipe(using Drain Pump)	O.D / I.D	mm(inch)	32.0 / 25.0
	Liquid	mm(inch)	Ф9.52 (3/8)
	Gas	mm(inch)	Ф15.88 (5/8)
Pipe Connecting Socket	Connection Type(Liquid)	-	Flare
	Connection Type(Gas)	_	Flare
Sound Pressure Level(Indoor Unit)	Cooling ((SH)/H/M/L)	dB(A)	- / 40.0 / 38.0 / 36.0
	Heating ((SH)/H/M/L)	dB(A)	-/40.0/38.0/36.0
Measurement Standard (Pressure Leve			
l)	-	-	ISO 3745
Cound Down Level/Index 11.20	Cooling ((SH)/H/M/L)	dB(A)	-
Sound Power Level(Indoor Unit)	Heating ((SH)/H/M/L)	dB(A)	-
Measurement Standard (Power Level)	-	-	-
Connecting Cable	Power and Communication cable(H07RN-F)	mm² × cores	0.75 x 4
Power Supply Type to Indoor	-	-	-

Category		Unit	Specification
Major	Minor	Onit	Specification
Electrical Characteristic	Maximum Fuse Amperes (MFA)	А	25
	Indoor Fan Motor_Full Load Amperes (FLA / Ma x)	А	0.8

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

Ceiling Cassette 4-Way

1. Specifications

ATNW48GMLP1

Major Manor Man		Category		
Power Supply Case 2	Major	Minor	Unit	Specification
Power Supply Gaze 2 (Limit Range of Voltage(Case 1)	Classification	Chassis	-	ТМ
Provided Supply Limit Range of Voltager(Case 1)		Case 1	-	220, 1, 60
Limit Range of Voltage/Case 1) V 108-242 Colling Capacity Nominal Aviv 1.3.78 Heating Capacity Nominal Bluth 4.7.000 Power Input(indoor) MML W 1.5.33 Rowning Carenty MML W - Reming Capacity MML A - Remining Carenty MML A - Remining Carenty MML A - Remining Carenty Page - 2.0 to 10 t	l=	Case 2	-	-
Nominal Nomi	Power Supply	Limit Range of Voltage(Case 1)	V	198~242
Cooling Capacity Nominal Bluth 47,000 Heating Capacity Nominal WW 15.53 Power Input(Indoor) HMML W		Limit Range of Voltage(Case 2)	V	-
Heating Capacity Hominal Homin			kW	13.78
Mouting Capacity Montined Moutine Mout	Cooling Capacity	Nominal	Btu/h	47,000
Power inputInfoor)			kW	15.53
Running Current HMML A - An Flow Rate (RSH)+HML) EA 1 An Flow Rate (RSH)+HML) m²/min - / 31.0 / 28.0 / 25.0 Alf Flow Rate Range(Min-Max) m²/min - / 31.0 / 28.0 / 25.0 Burden Station Pressure_Factory Set Pa Burden Station Pressure_Factory Set Pa Prove BLDC Drive Duty 124 Mon. 1 1 Dehumidification Rate 7 1 1 Met Exchanger Rows x Columns x FPI 3 x 12 x 19 Mon. 1 1 Fin Type Louver Face Area m² 0,53 Met W H x D) mm 922 x 300 x 917 Weight Net kg 28.5 Exterior Net kg 33.0 Exterior Type - Monming Fog Exterior Type	Heating Capacity	Nominal	Btu/h	53,000
Type	Power Input(Indoor)	H/M/L	W	F
Indoor Fan	Running Current	H/M/L	А	-
Indoor Fan Air Flow Rate ((SH))H/ML) m²/min -/31.0 / 28.0 / 25.0 Air Flow Rate Range(Min~Max) m²/min 25.0~31.0 External Static Pressure_Factory Set Pa - Indoor Fan Motor Type . BLDC Dehum diffication Rate Meat Exchanger Rows x Columns x FPI Heat Exchanger No. .		Туре	-	2D Turbo
Air Flow Rate Range(Min-Max) m³/min 25.0-31.0 External Static Pressure_Factory Set Pa		Quantity	EA	1
External Static Pressure_Factory Set	Indoor Fan	Air Flow Rate((SH)/H/M/L)	m³/min	- / 31.0 / 28.0 / 25.0
Type		Air Flow Rate Range(Min~Max)	m³/min	25.0~31.0
Indoor Fan Motor Drive - - Dehumidification Rate - th 5.20 Amale Exchanger Rows x Columns x FPI - 3 x 12 x 19 No. - 1 1 Fin Type - Louver Face Area m² 0.53 Dimensions Net(W x H x D) mm 840 x 288 x 840 Weight Net kg 28.5 Shipping(M x H x D) mm 922 x 360 x 917 Weight Net kg 28.5 Shipping kg 33.0 Exterior - Morning Fog Air Filter Type - Long Life Protection Device Fuse - O Protection Device Fuse - O Protection Device Fuse - O Overload Protector for Fan Motor - Thermal Protector for Fan Motor Protection Type - - - Drain Pipe(Natural Drainage)		External Static Pressure_Factory Set	Pa	-
Indoor Fan Motor		Туре	-	BLDC
Debug (Properties) W (Properties) 124 (Properties) Debug (Properties) √ (Properties) 1 (Properties) 1 (Properties) 3 x 12 x 19 1 (Properties) 3 x 12 x 19 1 (Properties) 2 (Properties)		Drive	-	-
No. 1 1 1 1 1 1 1 1 1	Indoor Fan Motor		w	124
Heat Exchanger No.		Output	No.	1
Heat Exchanger No. - 1 Fin Type - Louver Face Area m² 0.53 Dimensions Net(W x H x D) mm 840 x 288 x 840 Weight Net kg 22 x 360 x 917 Weight Net kg 28.5 Shipping W x H x D) kg 28.5 Shipping W x H x D) kg 33.0 Betain Kg 33.0 Color - Morning Fog Reflight Type - RAL 9001 Air Filter Type - Long Life Protection Device Fuse - O Overload Protector for Fan Motor - Thermal Protector for Fan Motor Refrigerant Type - R410A Control Type - R410A Drain Pipe(Natural Drainage) O.D/LD mm(inch) 3.0 / 25.0 Pipe Connecting Socket Gas mm(inch) 4.0 / 25.0 Gas mmm(inch) 4.0 /	Dehumidification Rate	-	ℓ/h	5.20
Heat Exchanger Fin Type		Rows x Columns x FPI	-	3 x 12 x 19
Fin Type		No.	-	1
Dimensions Net(W x H x D) mm 840 x 288 x 840 Weight Shipping(W x H x D) mm 922 x 360 x 917 Weight Net kg 28.5 Shipping kg 33.0 Exterior Color - Morning Fog RAL (Classic) - RAL 9001 Air Fitter Type - Long Life Protection Device Fuse - O Overload Protector for Fan Motor - Thermal Protector for Fan Motor Refrigerant Type - R410A Control Type - R410A Control Type - R410A Drain Pipe(using Drain Pump) O.D / I.D mm(inch) 32.0 / 25.0 Pipe Connecting Socket Gas mm(inch) Ф.9.52 (3/8) Gas mm(in	Heat Exchanger	Fin Type	-	Louver
Dimensions Shipping(W x H x D) mm 922 x 360 x 917 Weight Net kg 28.5 Shipping kg 33.0 Exterior Color - Morning Fog RAL (Classic) - RAL 9001 Air Filter Type - Long Life Protection Device Fuse - O Protection Device Type - Long Life Refrigerant Type - R410A Refrigerant Type - R410A Control Type - R410A Drain Pipe(Natural Drainage) O.D / I.D mm(inch) - - Drain Pipe(using Drain Pump) O.D / I.D mm(inch) 49.52 (3/8) - Pipe Connecting Socket Gas mm(inch) 49.52 (3/8) - Gas mm(inch) 49.52 (3/8) - Connection Type(Gas) - Flare Sound Pressure Level(Indoor Unit) Heating ((SH)Hi/ML) dB(A) -/47.0 / 45.0 /		Face Area	m²	0.53
Weight Net kg 28.5 Shipping kg 33.0 Exterior Color - Morning Fog RAL (Classic) - RAL 9001 Air Filter Type - Long Life Protection Device Fuse - O Overload Protector for Fan Motor - Thermal Protector for Fan Motor Refrigerant Type - R410A Control Type - R410A Drain Pipe(Natural Drainage) O.D./I.D mm(inch) 32.0 / 25.0 Drain Pipe(using Drain Pump) O.D./I.D mm(inch) 32.0 / 25.0 Pipe Connecting Socket Liquid mm(inch) 49.52 (3/8) Gas mm(inch) 49.52 (3/8) Gas mm(inch) 49.52 (3/8) Connection Type(Liquid) - Flare Connection Type(Gas) - Flare Sound Pressure Level(Indoor Unit) Heating ((SH)/H/ML) dB(A) - / 47.0 / 45.0 / 42.0 Measurement Standard (Pressure Level) - </td <td></td> <td>Net(W x H x D)</td> <td>mm</td> <td>840 x 288 x 840</td>		Net(W x H x D)	mm	840 x 288 x 840
Shipping Kg 33.0	Dimensions	Shipping(W x H x D)	mm	922 x 360 x 917
Exterior Shipping kg 33.0 Exterior Color - Morning Fog RAL (Classic) - RAL 9001 Air Filter Type - Long Life Protection Device Type - O Overload Protector for Fan Motor - Thermal Protector for Fan Motor Refrigerant Type - R410A Control Type - - Drain Pipe(Natural Drainage) O.D / I.D mm(inch) - Drain Pipe(using Drain Pump) O.D / I.D mm(inch) 49.52 (3/8) Gas mm(inch) 49.52 (3/8) Gas mm(inch) 49.52 (3/8) Gas mm(inch) 49.52 (3/8) Connection Type(Liquid) - Flare Sound Pressure Level(Indoor Unit) dB(A) -/47.0 / 45.0 / 42.0 Measurement Standard (Pressure Level) - ISO 3745 Sound Power Level(Indoor Unit) Heating (ISH)/H/M/L) dB(A) -/47.0 / 45.0 / 45.0 Heating (ISH)/H/M/L) dB(A) <td></td> <td>Net</td> <td>kg</td> <td>28.5</td>		Net	kg	28.5
Exterior RAL (Classic) - RAL 9001 Air Filter Type - Long Life Protection Device Fuse - O Overload Protector for Fan Motor - Thermal Protector for Fan Motor Refrigerant Type - R410A Control Type - R410A Drain Pipe(Natural Drainage) O.D / I.D mm(inch) - Drain Pipe(using Drain Pump) O.D / I.D mm(inch) 49.52 (3/8) Gas mm(inch) 49.52 (3/8) Gas mm(inch) 49.52 (3/8) Connection Type(Liquid) - Flare Connection Type(Gas) - Flare Sound Pressure Level(Indoor Unit) dB(A) -/47.0 / 45.0 / 42.0 Measurement Standard (Pressure Level) - ISO 3745 Sound Power Level(Indoor Unit) dB(A) - Heating ((SH)/H/M/L) dB(A) - Heating ((SH)/H/M/L) dB(A) - Heating ((SH)/H/M/L) dB(A) - He	Weight	Shipping	kg	33.0
RAL (Classic) - RAL 9001		Color	-	Morning Fog
Protection Device Fuse - O Refrigerant Type - R410A Drain Pipe(Natural Drainage) O.D / I.D mm(inch) - Drain Pipe(using Drain Pump) O.D / I.D mm(inch) 32.0 / 25.0 Drain Pipe(using Drain Pump) O.D / I.D mm(inch) 49.52 (3/8) Pipe Connecting Socket Gas mm(inch) 49.52 (3/8) Gas mm(inch) 49.9.52 (3/8) Connection Type(Liquid) - Flare Connection Type(Gas) - Flare Sound Pressure Level(Indoor Unit) Heating ((SH)/H/M/L) dB(A) -/47.0 / 45.0 / 42.0 Measurement Standard (Pressure Level) - - ISO 3745 Sound Power Level(Indoor Unit) Heating ((SH)/H/M/L) dB(A) -/47.0 / 45.0 / 42.0 Measurement Standard (Pressure Level) - - ISO 3745 Sound Power Level(Indoor Unit) Heating ((SH)/H/M/L) dB(A) -/47.0 / 45.0 / 45.0 / 45.0 / 45.0 Measurement Standard (Power Level) - - ISO 3745 Measur	Exterior	RAL (Classic)	-	RAL 9001
Protection Device Fuse - O Refrigerant Type - R410A Drain Pipe(Natural Drainage) O.D / I.D mm(inch) - Drain Pipe(using Drain Pump) O.D / I.D mm(inch) 32.0 / 25.0 Drain Pipe(using Drain Pump) O.D / I.D mm(inch) 49.52 (3/8) Pipe Connecting Socket Gas mm(inch) 49.52 (3/8) Gas mm(inch) 49.9.52 (3/8) Connection Type(Liquid) - Flare Connection Type(Gas) - Flare Sound Pressure Level(Indoor Unit) Heating ((SH)/H/M/L) dB(A) -/47.0 / 45.0 / 42.0 Measurement Standard (Pressure Level) - - ISO 3745 Sound Power Level(Indoor Unit) Heating ((SH)/H/M/L) dB(A) -/47.0 / 45.0 / 42.0 Measurement Standard (Pressure Level) - - ISO 3745 Sound Power Level(Indoor Unit) Heating ((SH)/H/M/L) dB(A) -/47.0 / 45.0 / 45.0 / 45.0 / 45.0 Measurement Standard (Power Level) - - ISO 3745 Measur	Air Filter	Туре	-	Long Life
Coverload Protector for Fan Motor - Thermal Protector for Fan Motor Refrigerant Type - R410A Drain Pipe(Natural Drainage) O.D / I.D mm(inch) - Drain Pipe(using Drain Pump) O.D / I.D mm(inch) 32.0 / 25.0 Pipe Connecting Socket Liquid mm(inch) 49.52 (3/8) Gas mm(inch) 49.05 (3/4) Connection Type(Liquid) - Flare Connection Type(Gas) - Flare Sound Pressure Level(Indoor Unit) Heating ((SH)/H/M/L) dB(A) -/ 47.0 / 45.0 / 42.0 Measurement Standard (Pressure Level - ISO 3745 ISO 3745 Sound Power Level(Indoor Unit) Heating ((SH)/H/M/L) dB(A) - - Measurement Standard (Power Level) - - ISO 3745 - Measurement Standard (Power Level) - - - - Measurement Standard (Power Level) - - - - Measurement Standard (Power Level) - - - -		Fuse	-	0
Refrigerant Control Type - - Drain Pipe(Natural Drainage) O.D / I.D mm(inch) - Drain Pipe(using Drain Pump) O.D / I.D mm(inch) 32.0 / 25.0 Pipe Connecting Socket Liquid mm(inch) Φ9.52 (3/8) Gas mm(inch) Φ19.05 (3/4) Connection Type(Liquid) - Flare Connection Type(Gas) - Flare Sound Pressure Level(Indoor Unit) Cooling ((SH)/H/M/L) dB(A) - / 47.0 / 45.0 / 42.0 Measurement Standard (Pressure Level) - - ISO 3745 Sound Power Level(Indoor Unit) Cooling ((SH)/H/M/L) dB(A) - Measurement Standard (Power Level) - - ISO 3745 Measurement Standard (Power Level) - - - Connecting Cable Power and Communication cable(H07RN-F) mm² × cores 0.75 x 4	Protection Device	Overload Protector for Fan Motor	-	Thermal Protector for Fan Motor
Drain Pipe(Natural Drainage) O.D / I.D mm(inch) - Drain Pipe(using Drain Pump) O.D / I.D mm(inch) 32.0 / 25.0 Pipe Connecting Socket Liquid mm(inch) Φ9.52 (3/8) Gas mm(inch) Ф19.05 (3/4) Connection Type(Liquid) - Flare Connection Type(Gas) - Flare Sound Pressure Level(Indoor Unit) dB(A) - / 47.0 / 45.0 / 42.0 Measurement Standard (Pressure Level) - - ISO 3745 Sound Power Level(Indoor Unit) dB(A) - - Heating ((SH)/H/M/L) dB(A) - - Heating ((SH)/H/M/L) dB(A) - - Measurement Standard (Power Level) - - - - Measurement Standard (Power Level) - - - - Measurement Standard (Power Level) - - - - Connecting Cable Power and Communication cable(H07RN-F) mm² × cores 0.75 x 4		Туре	-	R410A
Drain Pipe(Natural Drainage) O.D / I.D mm(inch) - Drain Pipe(using Drain Pump) O.D / I.D mm(inch) 32.0 / 25.0 Pipe Connecting Socket Liquid mm(inch) Φ9.52 (3/8) Gas mm(inch) Φ19.05 (3/4) Connection Type(Liquid) - Flare Connection Type(Gas) - Flare Sound Pressure Level(Indoor Unit) dB(A) - / 47.0 / 45.0 / 42.0 Measurement Standard (Pressure Level) - - ISO 3745 Sound Power Level(Indoor Unit) dB(A) - - Heating ((SH)/H/M/L) dB(A) - - Heating ((SH)/H/M/L) dB(A) - - Measurement Standard (Power Level) - - - - Measurement Standard (Power Level) - - - - Measurement Standard (Power Level) - - - - Connecting Cable Power and Communication cable(H07RN-F) mm² × cores 0.75 x 4	Refrigerant	Control Type	-	-
Pipe Connecting Socket Liquid mm(inch) Φ9.52 (3/8) Gas mm(inch) Φ19.05 (3/4) Connection Type(Liquid) - Flare Connection Type(Gas) - Flare Sound Pressure Level(Indoor Unit) Cooling ((SH)/H/M/L) dB(A) - / 47.0 / 45.0 / 42.0 Measurement Standard (Pressure Level (Indoor Unit) - ISO 3745 Sound Power Level(Indoor Unit) Cooling ((SH)/H/M/L) dB(A) - Heating ((SH)/H/M/L) dB(A) - Measurement Standard (Power Level) - - - Connecting Cable Power and Communication cable(H07RN-F) mm² × cores 0.75 x 4	Drain Pipe(Natural Drainage)	O.D / I.D	mm(inch)	-
Gas mm(inch) Φ19.05 (3/4) Connection Type(Liquid) - Flare Connection Type(Gas) - Flare Sound Pressure Level(Indoor Unit) Cooling ((SH)/H/M/L) dB(A) -/ 47.0 / 45.0 / 42.0 Measurement Standard (Pressure Level) - - ISO 3745 Sound Power Level(Indoor Unit) Cooling ((SH)/H/M/L) dB(A) - Heating ((SH)/H/M/L) dB(A) - Measurement Standard (Power Level) - - - Connecting Cable Power and Communication cable(H07RN-F) mm² × cores 0.75 x 4	Drain Pipe(using Drain Pump)	O.D / I.D	mm(inch)	32.0 / 25.0
Connection Type(Liquid) - Flare	Pipe Connecting Socket	Liquid	mm(inch)	Ф9.52 (3/8)
Connection Type(Liquid)		Gas	mm(inch)	Ф19.05 (3/4)
Cooling ((SH)/H/M/L) dB(A) -/ 47.0 / 45.0 / 42.0 Measurement Standard (Pressure Leve I) - - ISO 3745 Sound Power Level(Indoor Unit) Cooling ((SH)/H/M/L) dB(A) - Heating ((SH)/H/M/L) dB(A) - Measurement Standard (Power Level) - - Connecting Cable Power and Communication cable(H07RN-F) mm² × cores 0.75 x 4		Connection Type(Liquid)	-	Flare
Sound Pressure Level(Indoor Unit) Heating ((SH)/H/M/L) dB(A) -/ 47.0 / 45.0 / 42.0		Connection Type(Gas)	-	Flare
Heating ((SH)/H/M/L) dB(A) -/47.0 / 45.0 / 42.0 Measurement Standard (Pressure Leve	Sound Pressure Level(Indoor Unit)	Cooling ((SH)/H/M/L)	dB(A)	- / 47.0 / 45.0 / 42.0
Measurement Standard (Pressure Leve I) - - ISO 3745 Sound Power Level(Indoor Unit) Cooling ((SH)/H/M/L) dB(A) - Heating ((SH)/H/M/L) dB(A) - Measurement Standard (Power Level) - - - Connecting Cable Power and Communication cable(H07RN-F) mm² × cores 0.75 x 4				- / 47.0 / 45.0 / 42.0
Sound Power Level(Indoor Unit) Cooling ((SH)/H/M/L) dB(A) - Heating ((SH)/H/M/L) dB(A) - Measurement Standard (Power Level) - - - Connecting Cable Power and Communication cable(H07RN-F) mm² × cores 0.75 x 4		-	-	ISO 3745
Sound Power Level(Indoor Unit) Heating ((SH)/H/M/L) dB(A) - Measurement Standard (Power Level) - - - Connecting Cable Power and Communication cable(H07RN-F) mm² × cores 0.75 x 4	•	Cooling ((SH)/H/M/L)	dB(A)	-
Measurement Standard (Power Level) Connecting Cable Power and Communication cable(H07RN-F) mm² × cores 0.75 x 4			+	-
Connecting Cable Power and Communication cable(H07RN-F) mm² × cores 0.75 x 4	Measurement Standard (Power Level)			-
	·	Power and Communication cable(H07RN-F)	mm² × cores	0.75 x 4
· · · · · · · · · · · · · · · · · · ·	Power Supply Type to Indoor		-	-

Category		Unit	Specification
Major	Minor	Onit	Specification
Flactuical Observation	Maximum Fuse Amperes (MFA)	Α	40
	Indoor Fan Motor_Full Load Amperes (FLA / Ma x)	А	0.8

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

ATNW60GMLP1

	Category	Unit	Specification
Major	Minor		
Classification	Chassis	-	TM
Davier Curely	Case 1	-	220, 1, 60
	Case 2	-	-
Power Supply	Limit Range of Voltage(Case 1)	V	198~242
	Limit Range of Voltage(Case 2)	V	-
O a library O and a site.	Managinal	kW	14.65
Cooling Capacity	Nominal	Btu/h	50,000
Heating Consitu	Nominal	kW	17.00
Heating Capacity	Nominal	Btu/h	58,000
Power Input(Indoor)	H/M/L	W	-
Running Current	H/M/L	A	-
	Туре	-	2D Turbo
	Quantity	EA	1
Indoor Fan	Air Flow Rate((SH)/H/M/L)	m³/min	- / 31.0 / 28.0 / 25.0
	Air Flow Rate Range(Min~Max)	m³/min	25.0~31.0
	External Static Pressure_Factory Set	Pa	-
	Туре	-	BLDC
l	Drive	-	-
Indoor Fan Motor		W	124
	Output	No.	1
Dehumidification Rate	-	ℓ/h	6.30
	Rows x Columns x FPI	-	3 x 12 x 19
l	No.	-	1
Heat Exchanger	Fin Type	-	Louver
	Face Area	m²	0.53
	Net(W x H x D)	mm	840 x 288 x 840
Dimensions	Shipping(W x H x D)	mm	922 x 360 x 917
	Net	kg	28.5
Weight	Shipping	kg	33.0
	Color	-	Morning Fog
Exterior	RAL (Classic)	-	RAL 9001
Air Filter	Туре	-	Long Life
	Fuse	-	0
Protection Device	Overload Protector for Fan Motor	-	Thermal Protector for Fan Motor
-	Туре	-	R410A
Refrigerant	Control Type	-	-
Drain Pipe(Natural Drainage)	O.D / I.D	mm(inch)	-
Drain Pipe(using Drain Pump)	O.D / I.D	mm(inch)	32.0 / 25.0
	Liquid	mm(inch)	Ф9.52 (3/8)
	Gas	mm(inch)	Ф19.05 (3/4)
Pipe Connecting Socket	Connection Type(Liquid)	-	Flare
	Connection Type(Gas)	-	Flare
Sound Pressure Level(Indoor Unit)	Cooling ((SH)/H/M/L)	dB(A)	- / 47.0 / 45.0 / 42.0
	Heating ((SH)/H/M/L)	dB(A)	- / 47.0 / 45.0 / 42.0
Measurement Standard (Pressure Leve I)	-	-	ISO 3745
')	Cooling ((SH)/H/M/L)	dB(A)	_
Sound Power Level(Indoor Unit)	Heating ((SH)/H/M/L)	dB(A)	<u> </u>
Measurement Standard (Power Level)		dB(A)	-
· ·	Power and Communication apple/U07PN F		
Connecting Cable	Power and Communication cable(H07RN-F)	mm² × cores	0.75 x 4
Power Supply Type to Indoor	-	-	-

Category		Unit	Specification
Major	Minor	Offic	Specification
Electrical Characteristic	Maximum Fuse Amperes (MFA)	Α	40
	Indoor Fan Motor_Full Load Amperes (FLA / Ma x)	А	0.8

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

2. List of Functions

ATNW18GPLP1, ATNW24GPLP1, ATNW36GNLP1, ATNW48GMLP1, ATNW60GMLP1

Category	Functions	Availability
	Air Supply Outlet	4
	Airflow Direction Control (left & right)	X
	Airflow Direction Control (up & down)	Auto
	Auto Swing (left & right)	X
	Auto Swing (up & down)	0
	Airflow Steps (fan/cool/heat)	4/5/4
Air Flanc	Fan Speed Auto*	X
Air Flow	Power Cool/Heat	O/X
	Swirl Wind*	0
	Refresh Mode**	X
	Smart Mode**	X
	Indirect Wind*	0
	Direct Wind*	0
	Dry Operation	0
	Pre-Filter	0
A: D 'C '	Air Purify	Accessory
Air Purification	Ionizer	X
	UVnano	X
Deliability	Hot Start	0
Reliability	Self Diagnosis	0
	Auto Mode	0
	Auto Dry Operation**	X
	Auto Restart	0
	Child Lock*	0
	Forced Operation	0
	Group Control*	0
Convenience	Sleep Timer**	0
	Turn On/Off Reservation**	0
	Schedule**	0
	Two Thermistor Control*	0
	Time Limit Control (Energy saving)***	0
	Temperature Setback Timer (Energy saving)***	-
	External On/Off	0
	Drain Pump	0
Installation	High Ceiling Operation*	0
	Duty Rotation / Back up Operation***	-
	Wi-Fi Control	Accessory
	Comfort Cooling (Humidity Control)***	0
Special Functions	Auto Elevation Grille	Accessory(PTEGM0)
	Human Detection Function***	Accessory
	Floor Detection Function***	X

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

- Auto Intensity Control(Cooling Only Outdoor Unit)

2. List of Functions

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

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

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

ATNW18GPLP1, ATNW24GPLP1

Category	Accessory Name	Model Name	Description	Compatibility
		PREMTA000	-	0
	Wired - Premium	PREMTA000A	-	0
		PREMTA000B	-	0
	Wired BC2 (Standard III)	PREMTB100/PREMTB 101	White	0
	Wired - RS3 (Standard III)	PREMTBB10/PREMT BB11	Black	0
	Wired BC2 (Standard II)	PREMTB001	White	0
Remote Controller	Wired - RS2 (Standard II)	PREMTBB01	Black	0
rtomoto controllor	Wired - Simple	PQRCVCL0QW	White	0
	Wileu - Simple	PQRCVCL0Q	Black	0
	Wired - Simple for hotel	PQRCHCA0QW	White	0
	Wiled - Simple for floter	PQRCHCA0Q	Black	0
		PQWRCQ0FDB	For Cooling only	Х
	Wireless	PQWRHQ0FDB	For Heat pump	0
	Wileless	PWLSSB21C	For Cooling only	Х
		PWLSSB21H	For Heat pump	0
	Simple	PDRYCB000	1 input port, AC 220 - 240V	0
	Simple	PDRYCB100	1 input port, AC 24V	0
Dry Contact		PDRYCB400	2 input port(For Setback)	0
Dry Contact	Communication	PDRYCB300	8 input port, For 3rd party Themostat	0
	Communication	PDRYCB320	8 input port, For 3rd Party Thermostat (Analog Input)	0
		PDRYCB500	For 3rd Party Controller(Modbus RTU)	0
	Remote Temperature sensor	PQRSTA0	Room temperature sensor, NTC 10kΩ, include casing	0
Integration Device	Group Control wire	PZCWRCG3	Cable Assembly for group control (Y-type cable : 0.25m, cable : 9.6m)	0
	Extension wire	PZCWRC1	Extension wire for IDU-wired remote controller (9.6m)	0
	2-Remo Control wire	PZCWRC2	Y-type cable to connect additional Remote Controller as slave	Х
	Wi-Fi Modem	PWFMDD200	Device to use ThinQ app include connection cable	0
	Wi-Fi Extension cable	PWYREW000	USB Extension cable : 10 m	0
	Independent Power Module	PRIP0	For Multi V Indoor Unit	Х
	Multi-tenant Power module	PINPMB001	For Multi V Indoor Unit	X
	Refrigerant Leakage Detector	PRLDNVS0	For Multi V Indoor Unit (R410A)	X
	Human Detection Sensor	PTVSMA0	For Cassette 4-way	0
	Tiuman Detection Sensor	PTVSAA0	For Cassette Dual Vane 4-way	X
	Floor Detection Sensor	PTFSMA0	For Cassette Dual Vane 4-way	Х
ETC	Auto Elevation Grille	PTEGM0	For Cassette 4-way	X
		PTAHTP0	For Cassette 1-way	Х
	Air Purification Kit	РТАНМР0	For Cassette 4-way	0
		PTAHYP0	For Cassette Round	X
	EEV Kit	PRGK024A0	For Multi V Indoor Unit	Х
	Auxiliary Heater Relay Kit	PRARS1	For Wall Mounted / Art Cool Indoor Units	Х
	Administrates (Nelay INI	PRARH1	For Cassette / Duct Indoor Units	Х
	Ventilation Kit	PTVK430	For TR/TQ/TP/TN/TM Chassis	Х
	ventulation filt	PTVK410 / PTVK420	For TP/TN/TM Chassis	Х
		PTDCQ	For TR/TQ Chassis	Х
	Cassette Cover	PTDCM	For TP/TN/TM Chassis	Х
		PTDCA	For TM-A/TP-B Chassis	Х

- Note
 O: Possible, X: Impossible, -: Unconfirmed or irrelevant.
 *: Some advanced functions controlled by individual controller cannot be operated.
 Air Purification Kit and Auto Elevation Grille are not appliable at the same time.
 If there is a difference in development time between the product and the remote controller, some functions cannot be operated.

■ If you need more detail, please refer to the Control(BECON) PDB or the manual of product.

(http://partner.lge.com > Select Your Region : Home> Doc.Library> Product > Control(BECON)).

ATNW36GNLP1, ATNW48GMLP1, ATNW60GMLP1

Category	Accessory Name	Model Name	Description	Compatibility
		PREMTA000	-	0
	Wired - Premium	PREMTA000A	-	0
		PREMTA000B	-	0
	Wired - RS3 (Standard III)	PREMTB100/PREMTB 101	White	0
	wired - Neo (Standard III)	PREMTBB10/PREMT BB11	Black	0
	Wired - RS2 (Standard II)	PREMTB001	White	0
Remote Controller	Wild - 1102 (Glandard II)	PREMTBB01	Black	0
	Wired - Simple	PQRCVCL0QW	White	0
	TVII OU OIII PIO	PQRCVCL0Q	Black	0
	Wired - Simple for hotel	PQRCHCA0QW	White	0
	Wired - Simple for notes	PQRCHCA0Q	Black	0
		PQWRCQ0FDB	For Cooling only	0
	Wireless	PQWRHQ0FDB	For Heat pump	0
	VVII CICSS	PWLSSB21C	For Cooling only	0
		PWLSSB21H	For Heat pump	0
	Cimple	PDRYCB000	1 input port, AC 220 - 240V	0
	Simple	PDRYCB100	1 input port, AC 24V	0
Dw. Contoot		PDRYCB400	2 input port(For Setback)	0
Dry Contact	0	PDRYCB300	8 input port, For 3rd party Themostat	0
	Communication	PDRYCB320	8 input port, For 3rd Party Thermostat (Analog Input)	0
		PDRYCB500	For 3rd Party Controller(Modbus RTU)	0
	Remote Temperature sensor	PQRSTA0	Room temperature sensor, NTC 10k Ω , include casing	0
Integration Device	Group Control wire	PZCWRCG3	Cable Assembly for group control (Y-type cable : 0.25m, cable : 9.6m)	0
	Extension wire	PZCWRC1	Extension wire for IDU-wired remote controller (9.6m)	0
	2-Remo Control wire	PZCWRC2	Y-type cable to connect additional Remote Controller as slave	Х
	Wi-Fi Modem	PWFMDD200	Device to use ThinQ app include connection cable	0
	Wi-Fi Extension cable	PWYREW000	USB Extension cable : 10 m	0
	Independent Power Module	PRIP0	For Multi V Indoor Unit	X
	Multi-tenant Power module	PINPMB001	For Multi V Indoor Unit	X
	Refrigerant Leakage Detector	PRLDNVS0	For Multi V Indoor Unit (R410A)	X
	Human Detection Sensor	PTVSMA0	For Cassette 4-way	0
		PTVSAA0	For Cassette Dual Vane 4-way	Х
	Floor Detection Sensor	PTFSMA0	For Cassette Dual Vane 4-way	Х
ETC	Auto Elevation Grille	PTEGM0	For Cassette 4-way	Х
		PTAHTP0	For Cassette 1-way	Х
	Air Purification Kit	РТАНМР0	For Cassette 4-way	0
		PTAHYP0	For Cassette Round	Х
	EEV Kit	PRGK024A0	For Multi V Indoor Unit	Х
	Auxiliary Heater Relay Kit	PRARS1	For Wall Mounted / Art Cool Indoor Units	Х
		PRARH1	For Cassette / Duct Indoor Units	X
	Ventilation Kit	PTVK430	For TR/TQ/TP/TN/TM Chassis	Х
	. Silanda Sili Tita	PTVK410 / PTVK420	For TP/TN/TM Chassis	Х
		PTDCQ	For TR/TQ Chassis	Х
	Cassette Cover	PTDCM	For TP/TN/TM Chassis	X
		PTDCA	For TM-A/TP-B Chassis	X

- O: Possible, X: Impossible, -: Unconfirmed or irrelevant.

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

 Air Purification Kit and Auto Elevation Grille are not appliable at the same time.

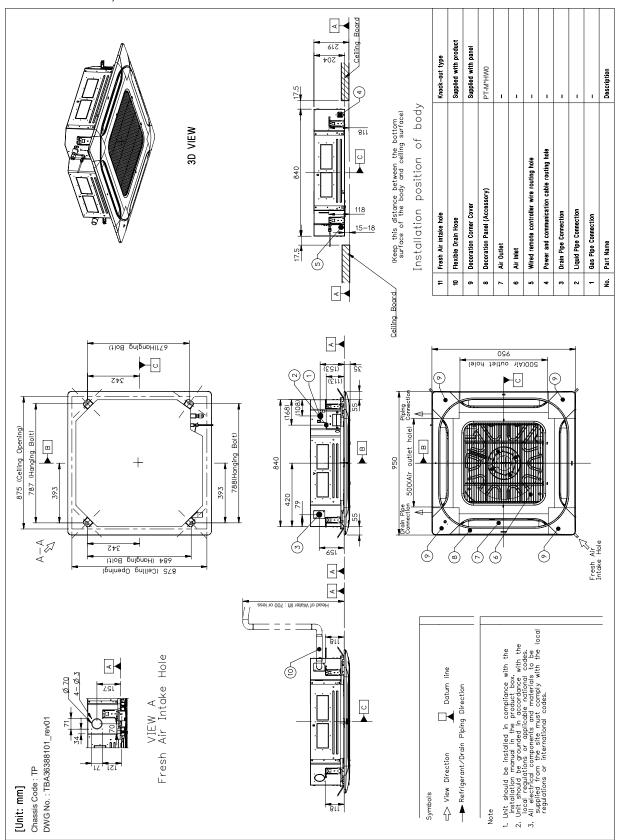
 If there is a difference in development time between the product and the remote controller, some functions cannot be operated.

■ If you need more detail, please refer to the Control(BECON) PDB or the manual of product.

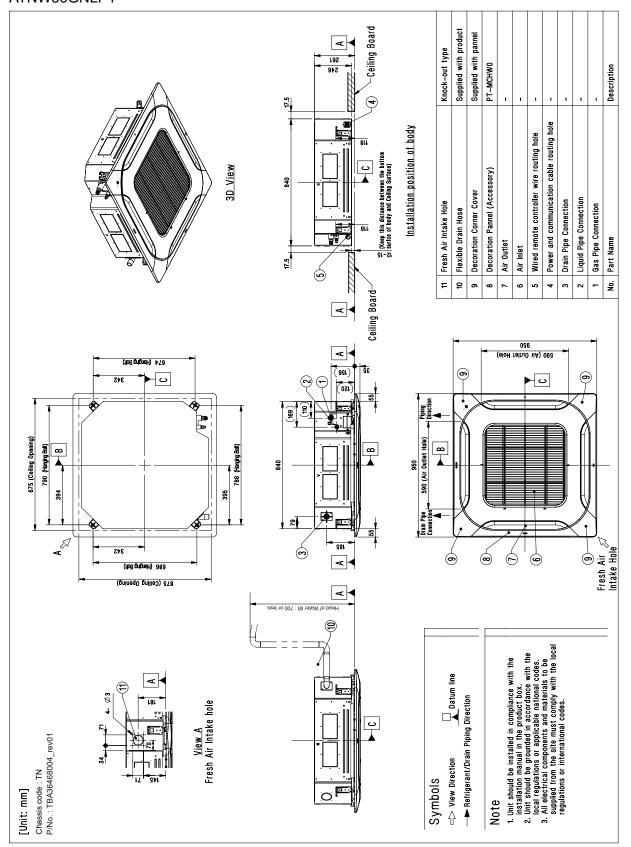
(http://partner.lge.com > Select Your Region : Home> Doc.Library> Product > Control(BECON)).

4.1 Dimensional Drawing

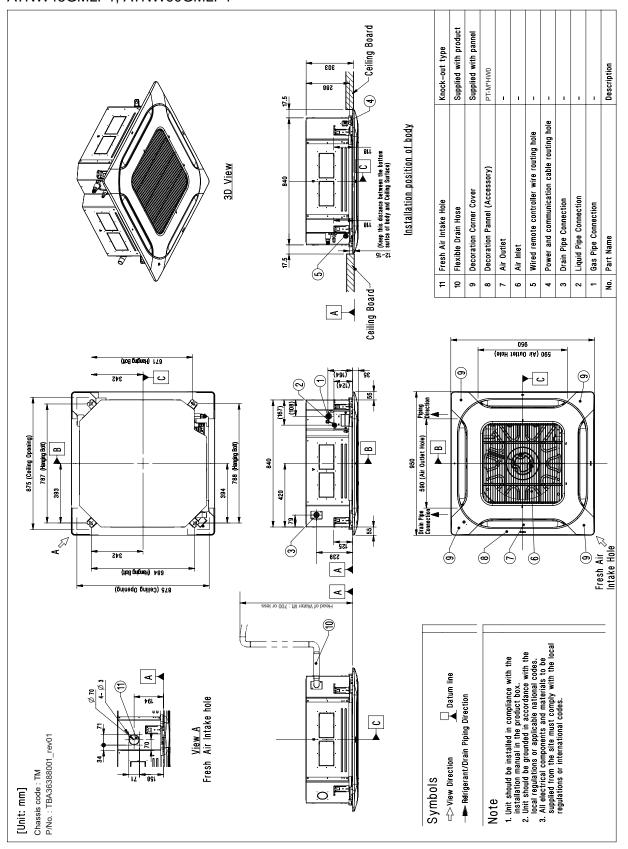
ATNW18GPLP1, ATNW24GPLP1



ATNW36GNLP1



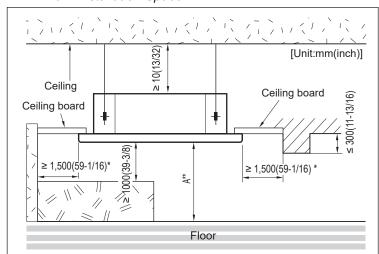
ATNW48GMLP1, ATNW60GMLP1



4.2 Installation Space

ATNW18GPLP1, ATNW24GPLP1, ATNW36GNLP1, ATNW48GMLP1, ATNW60GMLP1

< Minimum Installation Space >



Notes

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

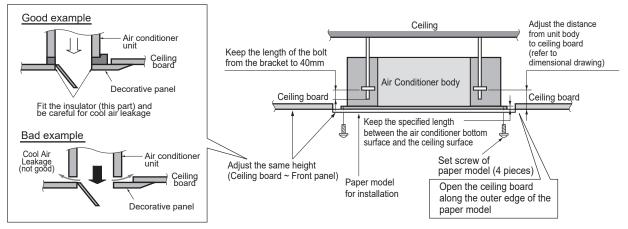
2. **: A, Installation Height from the floor

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

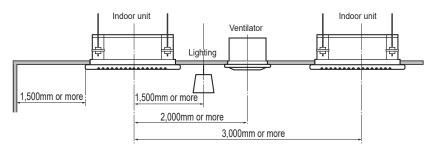
*** : Standard Height (Recommended)

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

< Cautions for Panel installation >



< Series installation >



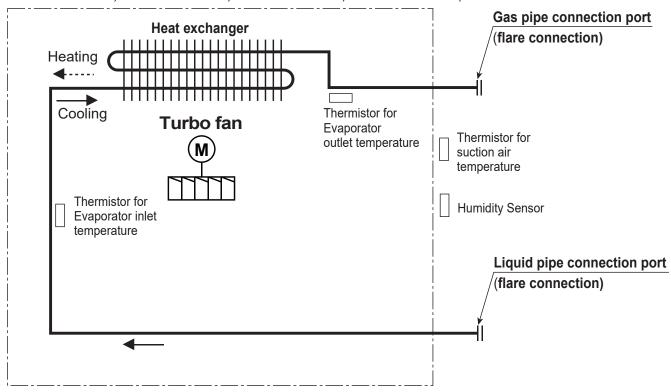
* According to type of indoor unit, external appearance could be different.

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

5. Piping Diagrams

5.1 Normal

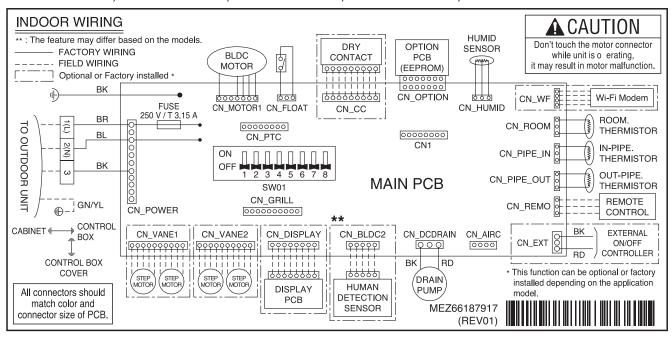
ATNW18GPLP1, ATNW24GPLP1, ATNW36GNLP1, ATNW48GMLP1, ATNW60GMLP1



6. Wiring Diagrams

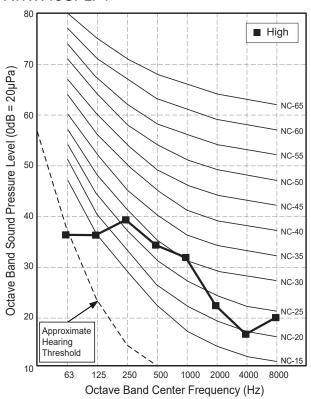
6.1 Product

ATNW18GPLP1, ATNW24GPLP1, ATNW36GNLP1, ATNW48GMLP1, ATNW60GMLP1



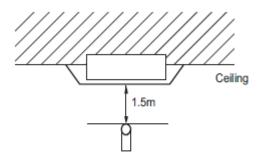
7.1 Pressure Levels

ATNW18GPLP1



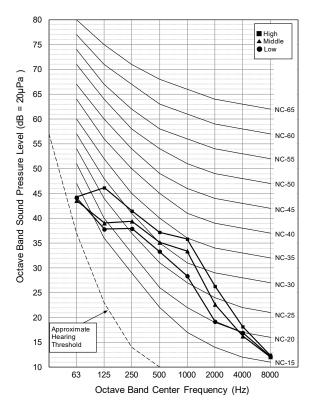
Sound level [dB(A), @ Standard condition]			
Cooling ((SH)/H/M/L) - / 36.0 / 34.0 / 32.0			
Heating ((SH)/H/M/L)	- / 36.0 / 34.0 / 32.0		

- Sound measured at some distance away from the center of the unit.
- Data is valid at free field condition.
- Reference accoustic pressure 0dB = 20µPa.
- Data is valid at nominal operation condition.
 - Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
- Sound levels can be increased in accordance with installation and operating conditions. (Static pressure mode, used air guide, Room target temperature setting, etc)
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.



^{*} Measuring place : Anechoic chamber

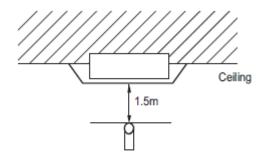
ATNW24GPLP1



Sound level [dB(A), @ Standard condition]			
Cooling ((SH)/H/M/L)	- / 38.0 / 36.0 / 34.0		
Heating ((SH)/H/M/L)	- / 38.0 / 36.0 / 34.0		

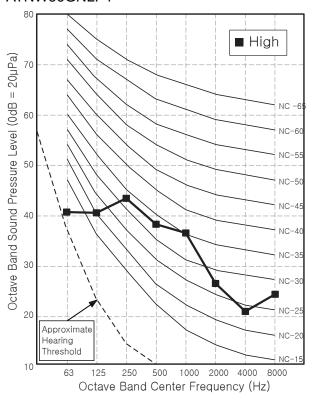
Note

- Sound measured at some distance away from the center of the unit.
- Data is valid at free field condition.
- Reference accoustic pressure 0dB = 20µPa.
- Data is valid at nominal operation condition.
- Data is valid at nonlinial operation condition.
 Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
 Sound levels can be increased in accordance with installation and operating conditions.
 (Static pressure mode, used air guide, Room target temperature setting, etc)
 Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
 Therefore, these values can be increased owing to ambient conditions during operation.



* Measuring place : Anechoic chamber

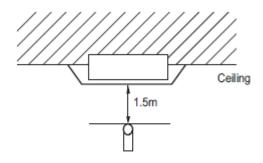
ATNW36GNLP1



Sound level [dB(A), @ Standard condition]			
Cooling ((SH)/H/M/L) - / 40.0 / 38.0 / 36.0			
Heating ((SH)/H/M/L)	- / 40.0 / 38.0 / 36.0		

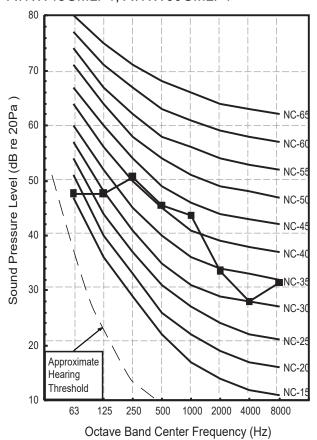
Note

- Sound measured at some distance away from the center of the unit.
- Data is valid at free field condition.
- Reference accoustic pressure 0dB = $20\mu Pa$.
- \blacksquare Data is valid at nominal operation condition.
 - Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
- Sound levels can be increased in accordance with installation and operating conditions. (Static pressure mode, used air guide, Room target temperature setting, etc)
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.



* Measuring place : Anechoic chamber

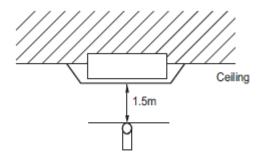
ATNW48GMLP1, ATNW60GMLP1



Sound level [dB(A), @ Standard condition]			
Cooling ((SH)/H/M/L) - / 47.0 / 45.0 / 42.0			
Heating ((SH)/H/M/L)	- / 47.0 / 45.0 / 42.0		

Note

- Sound measured at some distance away from the center of the unit.
- Data is valid at free field condition.
- Reference accoustic pressure 0dB = 20µPa.
- \blacksquare Data is valid at nominal operation condition.
- Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
- Sound levels can be increased in accordance with installation and operating conditions. (Static pressure mode, used air guide, Room target temperature setting, etc)
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
- Therefore, these values can be increased owing to ambient conditions during operation.

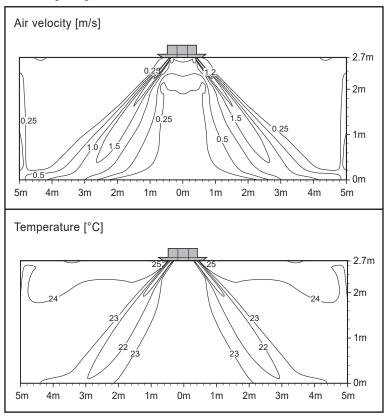


* Measuring place : Anechoic chamber

8.1 Cooling Operation

ATNW18GPLP1

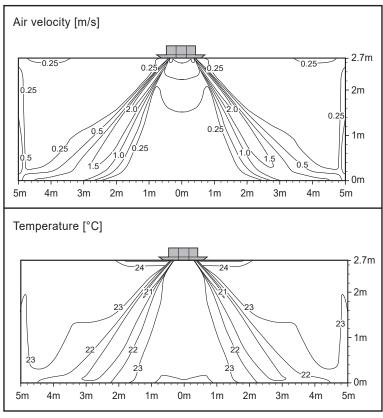
Discharge angle: 40°



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

ATNW24GPLP1

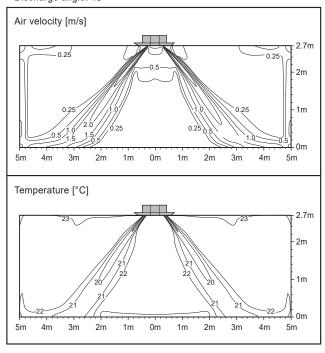
Discharge angle: 40°



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

ATNW36GNLP1

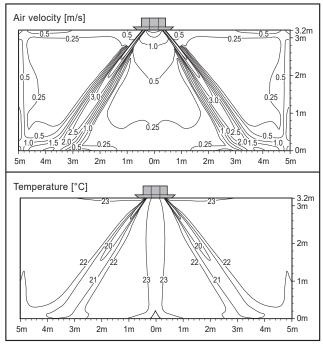
Discharge angle: 40°



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

ATNW48GMLP1, ATNW60GMLP1 Cooling

Discharge angle: 40°

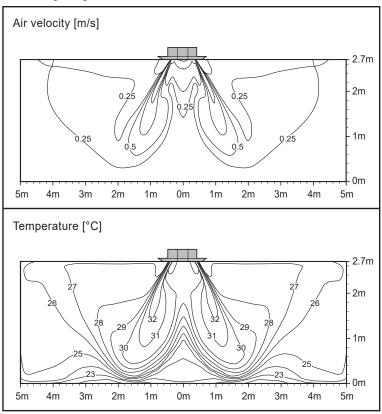


- These figures are accordance with normal certain condition and environment.
- (Airflow step is 'High', Air discharge angle is fixed as indicated angle.)
 Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation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

8.2 Heating Operation

ATNW18GPLP1

Discharge angle: 50°

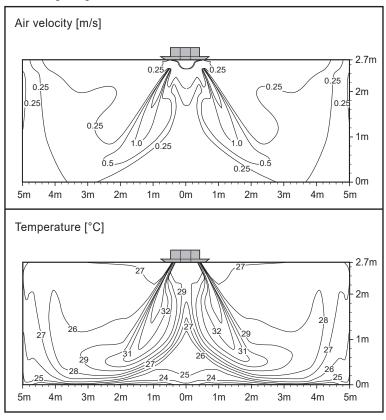


- These figures are accordance with normal certain condition and environment.
 (Airflow step is 'High', Air discharge angle is fixed as indicated angle.)

 Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

ATNW24GPLP1

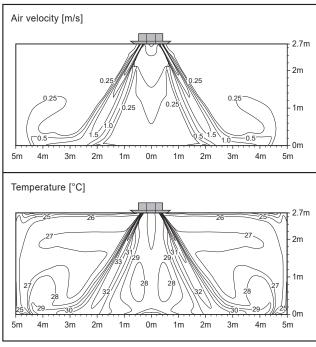
Discharge angle: 50°



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

ATNW36GNLP1

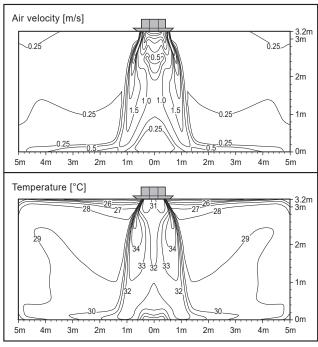
Discharge angle: 50°



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

ATNW48GMLP1, ATNW60GMLP1

Discharge angle: 50°



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

Ceiling Suspended

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

1.1 Product

AVNW36GM1P1

Category		Unit	Specification
Major	Minor	Unit	Specification
Classification	Chassis	-	VM1
	Case 1	-	220, 1, 60
Power Supply	Case 2	-	-
Fower Supply	Limit Range of Voltage(Case 1)	V	198~242
	Limit Range of Voltage(Case 2)	V	-
Cooling Capacity	Nominal	kW	8.79
Cooling Capacity	Nonnia	Btu/h	30,000
Heating Capacity	Nominal	kW	9.97
Treating Capacity	Norminal	Btu/h	34,000
Power Input(Indoor)	H/M/L	W	-
Running Current	H/M/L	A	
	Туре	-	CFF
	Quantity	EA	1
Indoor Fan	Air Flow Rate((SH)/H/M/L)	m³/min	- / 20.0 / 18.0 / 16.0
	Air Flow Rate Range(Min~Max)	m³/min	16.0~20.0
	External Static Pressure_Factory Set	Pa	-
	Туре	-	BLDC
Indees Can Mater	Drive	-	-
Indoor Fan Motor	Outruit	W	85.9
	Output	No.	1
Dehumidification Rate	-	ℓ/h	3.80
	Rows x Columns x FPI	-	3 x 18 x 18
	No.	-	1
Heat Exchanger	Fin Type	-	Louver
	Face Area	m²	0.31
Dimensions	Net(W x H x D)	mm	1,200 x 235 x 690
Dimensions	Shipping(W x H x D)	mm	1,315 x 317 x 768
Mainh	Net	kg	28.4
Weight	Shipping	kg	34.3
Fiderica	Color	-	Morning Fog
Exterior	RAL (Classic)	-	RAL 9001
Air Filter	Туре	-	Long Life
Protection Device	Fuse	-	0
Protection Device	Overload Protector for Fan Motor	-	Thermal Protector for Fan Motor
Pofrigorant	Туре	-	R410A
Refrigerant	Control Type	-	-
Drain Pipe(Natural Drainage)	O.D / I.D	mm(inch)	21.5 / 16.0
Drain Pipe(using Drain Pump)	O.D / I.D	mm(inch)	-
	Liquid	mm(inch)	Ф9.52 (3/8)
Pipe Connecting Socket	Gas	mm(inch)	Ф15.88 (5/8)
	Connection Type(Liquid)	-	Flare
	Connection Type(Gas)	-	Flare
Sound Pressure Level(Indoor Unit)	Cooling ((SH)/H/M/L)	dB(A)	- / 47.0 / 45.0 / 42.0
Oounu Fressure Lever(III0001 UTIII)	Heating ((SH)/H/M/L)	dB(A)	- / 47.0 / 45.0 / 42.0
Measurement Standard (Pressure Leve I)	-	-	ISO 3745
O	Cooling ((SH)/H/M/L)	dB(A)	-
Sound Power Level(Indoor Unit)	Heating ((SH)/H/M/L)	dB(A)	-
Measurement Standard (Power Level)		-	_

Category		Unit	Specification
Major Minor			
Connecting Cable	Power and Communication cable(H07RN-F)	mm² × cores	0.75 x 4
Power Supply Type to Indoor	-	-	-
	Maximum Fuse Amperes (MFA)	А	25
Electrical Characteristic	Indoor Fan Motor_Full Load Amperes (FLA / Ma x)	А	0.5

- Due to our policy of innovation some specifications may be changed without notification.
 Wiring cable size must comply with the applicable local and national code.
 And "Electric characteristics" should be considered for electrical work and design.

- Especially the power cable and circuit breaker should be selected in accordance with that.
 Sound Level Values are measured at Noise Measuring chamber accordance with standard.
 Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.

AVNW48GM2P1

	Category	Unit	Specification
Major	Minor	Unit	Specification
Classification	Chassis	-	VM2
	Case 1	-	220-230-240, 1, 50
D 0 1	Case 2	-	-
Power Supply	Limit Range of Voltage(Case 1)	V	198~242
	Limit Range of Voltage(Case 2)	V	-
0 1 0 1		kW	13.78
Cooling Capacity	Nominal	Btu/h	47,000
		kW	15.53
Heating Capacity	Nominal	Btu/h	53,000
Power Input(Indoor)	H/M/L	W	-
Running Current	H/M/L	А	-
	Туре	-	CFF
	Quantity	EA	2
Indoor Fan	Air Flow Rate((SH)/H/M/L)	m³/min	- / 30.0 / 25.0 / 20.0
	Air Flow Rate Range(Min~Max)	m³/min	20.0~30.0
	External Static Pressure_Factory Set	Pa	-
	Туре	-	BLDC
	Drive	-	-
Indoor Fan Motor		w	125
	Output	No.	1
Dehumidification Rate	_	ℓ/h	6.50
	Rows x Columns x FPI	-	3 x 18 x 18
	No.	-	1
Heat Exchanger	Fin Type	-	Louver
	Face Area	m²	0.46
	Net(W x H x D)	mm	1,600 x 235 x 690
Dimensions	Shipping(W x H x D)	+	1,715 x 317 x 768
	Net	mm	36.9
Weight		kg	45.5
	Shipping Color	kg	
Exterior		-	Morning Fog
A. Eu	RAL (Classic)	-	RAL 9001
Air Filter	Туре	-	Long Life
Protection Device	Fuse	-	0
	Overload Protector for Fan Motor	-	Thermal Protector for Fan Motor
Refrigerant	Туре	-	R410A
	Control Type	-	-
Drain Pipe(Natural Drainage)	O.D / I.D	mm(inch)	21.5 / 16.0
Drain Pipe(using Drain Pump)	O.D / I.D	mm(inch)	<u>-</u>
	Liquid	mm(inch)	Ф9.52 (3/8)
Pipe Connecting Socket	Gas	mm(inch)	Ф19.05 (3/4)
	Connection Type(Liquid)	-	Flare
	Connection Type(Gas)	-	Flare
Sound Pressure Level(Indoor Unit)	Cooling ((SH)/H/M/L)	dB(A)	- / 50.0 / 46.0 / 42.0
<u> </u>	Heating ((SH)/H/M/L)	dB(A)	- / 50.0 / 46.0 / 42.0
Measurement Standard (Pressure Leve I)	-	-	ISO 3745
Cound Dower Level/Index - Livia	Cooling ((SH)/H/M/L)	dB(A)	-
Sound Power Level(Indoor Unit)	Heating ((SH)/H/M/L)	dB(A)	-
Measurement Standard (Power Level)	-	-	-
Connecting Cable	Power and Communication cable(H07RN-F)	mm² × cores	0.75 x 4
Power Supply Type to Indoor		_	-

	Category	Unit	Specification	
Major Minor		Oille	Specification	
Electrical Characteristic	Indoor Fan Motor_Full Load Amperes (FLA)	A	0.6	

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

AVNW60GM2P1

	Category			
Major	Minor	- Unit	Specification	
Classification	Chassis	-	VM2	
	Case 1	-	220, 1, 60	
	Case 2	-	-	
Power Supply	Limit Range of Voltage(Case 1)	V	198~242	
	Limit Range of Voltage(Case 2)	V	-	
		kW	15.24	
Cooling Capacity	Nominal	Btu/h	52,000	
2	Nominal	kW	17.00	
Heating Capacity		Btu/h	58,000	
Power Input(Indoor)	H/M/L	W	-	
Running Current	H/M/L	A	-	
	Туре	-	CFF	
	Quantity	EA	2	
Indoor Fan	Air Flow Rate((SH)/H/M/L)	m³/min	- / 30.0 / 25.0 / 20.0	
	Air Flow Rate Range(Min~Max)	m³/min	20.0~30.0	
	External Static Pressure_Factory Set	Pa	-	
	Туре	-	BLDC	
	Drive	-	-	
Indoor Fan Motor		W	125	
	Output	No.	1	
Dehumidification Rate	-	ℓ/h	6.50	
	Rows x Columns x FPI	-	3 x 18 x 18	
	No.	-	1	
Heat Exchanger	Fin Type	-	Louver	
	Face Area	m²	0.46	
	Net(W x H x D)	mm	1,600 x 235 x 690	
Dimensions	Shipping(W x H x D)	mm	1,715 x 317 x 768	
	Net	kg	36.9	
Weight	Shipping	kg	45.5	
	Color	-	Morning Fog	
Exterior	RAL (Classic)	-	RAL 9001	
Air Filter	Туре	-	Long Life	
	Fuse	-	0	
Protection Device	Overload Protector for Fan Motor	-	Thermal Protector for Fan Motor	
	Туре	-	R410A	
Refrigerant	Control Type	-	-	
Drain Pipe(Natural Drainage)	O.D / I.D	mm(inch)	21.5 / 16.0	
Drain Pipe(using Drain Pump)	O.D / I.D	mm(inch)	-	
1 (Liquid	mm(inch)	Ф9.52 (3/8)	
	Gas	mm(inch)	Ф19.05 (3/4)	
Pipe Connecting Socket	Connection Type(Liquid)	-	Flare	
	Connection Type(Gas)	-	Flare	
	Cooling ((SH)/H/M/L)	dB(A)	- / 50.0 / 46.0 / 42.0	
Sound Pressure Level(Indoor Unit)	Heating ((SH)/H/M/L)	dB(A)	- / 50.0 / 46.0 / 42.0	
Measurement Standard (Pressure Leve I)	•	-	ISO 3745	
	Cooling ((SH)/H/M/L)	dB(A)	-	
Sound Power Level(Indoor Unit)	Heating ((SH)/H/M/L)	dB(A)	-	
Measurement Standard (Power Level)	-	4B(A)	<u> </u>	
Connecting Cable	Power and Communication cable(H07RN-F)	mm² × cores	0.75 x 4	
Power Supply Type to Indoor			-	
1 Street Guppiy Type to Induot			-	

Category		Unit	Specification	
Major	Minor	Onit	opecinication .	
Electrical Characteristic Indoor Fan Motor_Full Load Amperes (FLA)		A	0.6	

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

2. List of Functions

AVNW36GM1P1, AVNW48GM2P1, AVNW60GM2P1

Functions	Availability
Air Supply Outlet	1
Airflow Direction Control (left & right)	X
Airflow Direction Control (up & down)	Auto
Auto Swing (left & right)	X
Auto Swing (up & down)	0
Airflow Steps (fan/cool/heat)	4/5/5
Fan Speed Auto*	0
Power Cool/Heat	0/0
Swirl Wind*	X
Refresh Mode**	X
Smart Mode**	X
Indirect Wind*	0
Direct Wind*	0
Dry Operation	0
Pre-Filter	0
Air Purify	X
lonizer	X
UVnano	X
Hot Start	0
Self Diagnosis	0
Auto Mode	0
Auto Dry Operation**	0
Auto Restart	0
Child Lock*	0
Forced Operation	X
Group Control*	0
Sleep Timer**	0
Turn On/Off Reservation**	0
Schedule**	0
Two Thermistor Control*	0
Time Limit Control (Energy saving)***	0
Temperature Setback Timer (Energy saving)***	-
External On/Off	0
Drain Pump	X
High Ceiling Operation*	X
Duty Rotation / Back up Operation***	-
Wi-Fi Control	Accessory
Comfort Cooling (Humidity Control)***	0
Auto Elevation Grille	X
Human Detection Function***	X
Floor Detection Function***	X
	Air Supply Outlet Airflow Direction Control (left & right) Airflow Direction Control (up & down) Auto Swing (left & right) Auto Swing (up & down) Airflow Steps (fan/cool/heat) Fan Speed Auto* Power Cool/Heat Swirl Wind* Refresh Mode** Smart Mode** Indirect Wind* Direct Wind* Dry Operation Pre-Filter Air Purify Ionizer UVnano Hot Start Self Diagnosis Auto Mode Auto Dry Operation** Auto Restart Child Lock* Forced Operation Group Control* Sleep Timer** Turn On/Off Reservation** Schedule** Two Thermistor Control* Time Limit Control (Energy saving)*** External On/Off Drain Pump High Ceiling Operation* Duty Rotation / Back up Operation*** Wi-Fi Control Comfort Cooling (Humidity Control)*** Auto Relevation Grille Human Detection Function***

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

- Auto Intensity Control(Cooling Only Outdoor Unit)

2. List of Functions

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

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

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

AVNW36GM1P1, AVNW48GM2P1, AVNW60GM2P1

Category	Accessory Name	Model Name	Description	Compatibility
Remote Controller		PREMTA000	-	0
	Wired - Premium	PREMTA000A	-	0
		PREMTA000B	-	0
		PREMTB100/PREMTB 101	White	Х
	Wired - RS3 (Standard III)	PREMTBB10/PREMT BB11	Black	Х
	M" B00 (0)	PREMTB001	White	Х
	Wired - RS2 (Standard II)	PREMTBB01	Black	Х
	Wired - Simple	PQRCVCL0QW	White	Х
		PQRCVCL0Q	Black	Х
	Wired - Simple for hotel	PQRCHCA0QW	White	Х
		PQRCHCA0Q	Black	Х
		PQWRCQ0FDB	For Cooling only	0
	Minutes -	PQWRHQ0FDB	For Heat pump	0
	Wireless	PWLSSB21C	For Cooling only	0
		PWLSSB21H	For Heat pump	0
	a	PDRYCB000	1 input port, AC 220 - 240V	0
	Simple	PDRYCB100	1 input port, AC 24V	0
		PDRYCB400	2 input port(For Setback)	0
Dry Contact		PDRYCB300	8 input port, For 3rd party Themostat	0
	Communication	PDRYCB320	8 input port, For 3rd Party Thermostat (Analog Input)	0
		PDRYCB500	For 3rd Party Controller(Modbus RTU)	0
	Remote Temperature sensor	PQRSTA0	Room temperature sensor, NTC 10kΩ, include casing	0
Integration Device	Group Control wire	PZCWRCG3	Cable Assembly for group control (Y-type cable : 0.25m, cable : 9.6m)	0
	Extension wire	PZCWRC1	Extension wire for IDU-wired remote controller (9.6m)	0
	2-Remo Control wire	PZCWRC2	Y-type cable to connect additional Remote Controller as slave	Х
	Wi-Fi Modem	PWFMDD200	Device to use ThinQ app include connection cable	0
	Wi-Fi Extension cable	PWYREW000	PWYREW000 USB Extension cable : 10 m	
	Independent Power Module	PRIP0	For Multi V Indoor Unit	Х
	Multi-tenant Power module	PINPMB001	For Multi V Indoor Unit	Х
	Refrigerant Leakage Detector	PRLDNVS0	For Multi V Indoor Unit (R410A)	Х
ETC		PTVSMA0	For Cassette 4-way	Х
	Human Detection Sensor	PTVSAA0	For Cassette Dual Vane 4-way	Х
	Floor Detection Sensor	PTFSMA0	For Cassette Dual Vane 4-way	Х
	Auto Elevation Grille	PTEGM0	For Cassette 4-way	Х
		PTAHTP0	For Cassette 1-way	Х
	Air Purification Kit	PTAHMP0	For Cassette 4-way	Х
		PTAHYP0	For Cassette Round	Х
	EEV Kit	PRGK024A0	For Multi V Indoor Unit	Х
	Audiliand Laster Delevi Wit	PRARS1	For Wall Mounted / Art Cool Indoor Units	0
	Auxiliary Heater Relay Kit	PRARH1	For Cassette / Duct Indoor Units	0
	Ventilation Vit	PTVK430	For TR/TQ/TP/TN/TM Chassis	Х
	Ventilation Kit	PTVK410 / PTVK420	For TP/TN/TM Chassis	Х
		PTDCQ	For TR/TQ Chassis	Х
	Cassette Cover	PTDCM	For TP/TN/TM Chassis	Х
		PTDCA	For TM-A/TP-B Chassis	Х

- O: Possible, X: Impossible, -: Unconfirmed or irrelevant.

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

 Air Purification Kit and Auto Elevation Grille are not appliable at the same time.

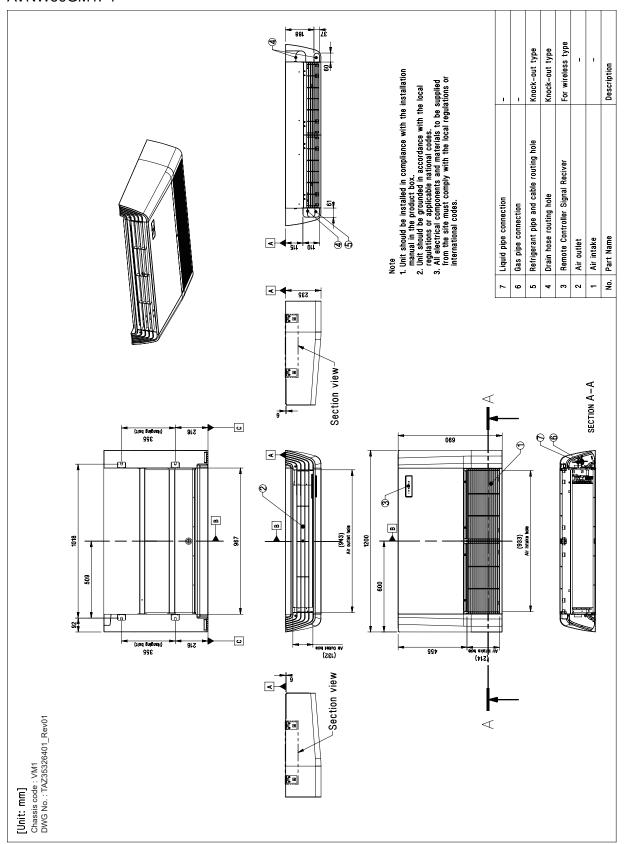
 If there is a difference in development time between the product and the remote controller, some functions cannot be operated.

■ If you need more detail, please refer to the Control(BECON) PDB or the manual of product.

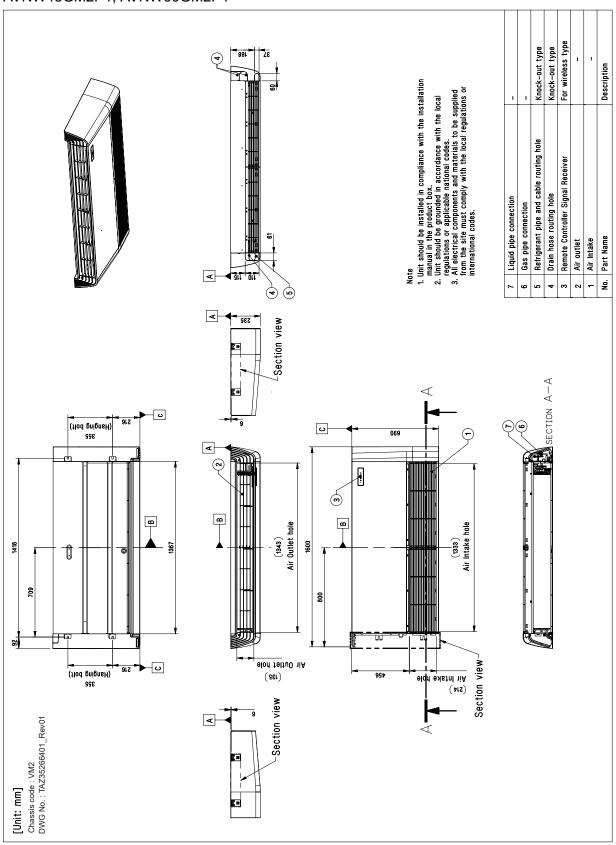
(http://partner.lge.com > Select Your Region : Home> Doc.Library> Product > Control(BECON)).

4.1 Dimensional Drawing

AVNW36GM1P1



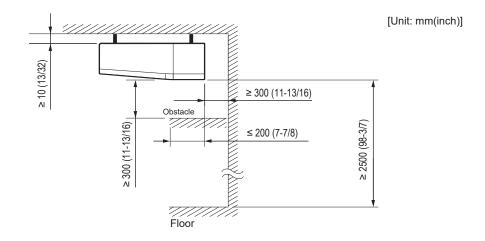
AVNW48GM2P1, AVNW60GM2P1



4. Dimensions

4.2 Installation Space

AVNW36GM1P1, AVNW48GM2P1, AVNW60GM2P1





- Places where products are installed should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.

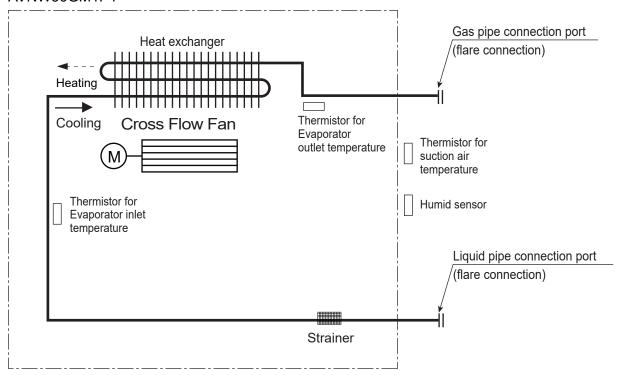
 ■ According to type of indoor unit, external appearance or installed structure could be different.

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

5. Piping Diagrams

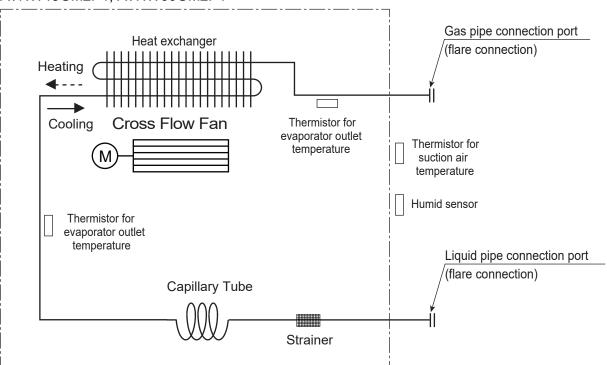
5.1 Normal

AVNW36GM1P1



5. Piping Diagrams

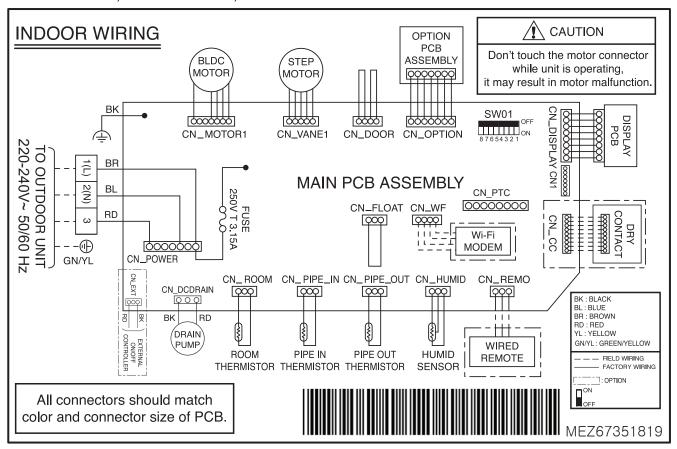
AVNW48GM2P1, AVNW60GM2P1



6. Wiring Diagrams

6.1 Product

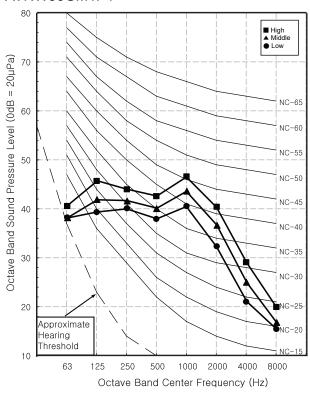
AVNW36GM1P1, AVNW48GM2P1, AVNW60GM2P1



7. Sound Levels

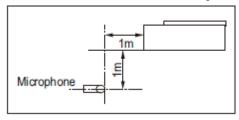
7.1 Pressure Levels

AVNW36GM1P1



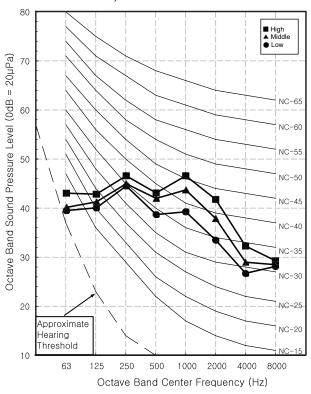
Sound level [dB(A), @ Standard condition]			
Cooling ((SH)/H/M/L)	- / 47.0 / 45.0 / 42.0		
Heating ((SH)/H/M/L)	- / 47.0 / 45.0 / 42.0		

- Sound measured at some distance away from the center of the unit.
- Data is valid at free field condition.
- Reference accoustic pressure 0dB = 20µPa.
- Data is valid at nominal operation condition.
- Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
- Sound levels can be increased in accordance with installation and operating conditions.
- (Static pressure mode, used air guide, Room target temperature setting, etc)
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.



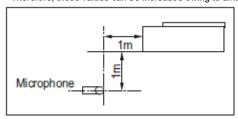
7. Sound Levels

AVNW48GM2P1, AVNW60GM2P1



Sound level [dB(A), @ Standard condition]		
Cooling ((SH)/H/M/L)	- / 50.0 / 46.0 / 42.0	
Heating ((SH)/H/M/L)	- / 50.0 / 46.0 / 42.0	

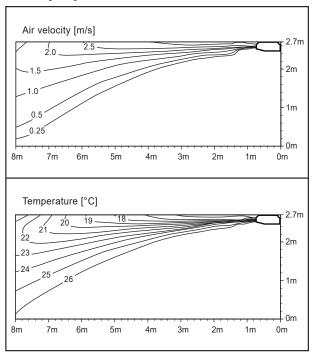
- Sound measured at some distance away from the center of the unit.
- Data is valid at free field condition.
- Reference accoustic pressure 0dB = 20µPa.
- Data is valid at nominal operation condition.
- Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
- Sound levels can be increased in accordance with installation and operating conditions. (Static pressure mode, used air guide, Room target temperature setting, etc)
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.



8.1 Cooling Operation

AVNW36GM1P1

Discharge angle: 0°



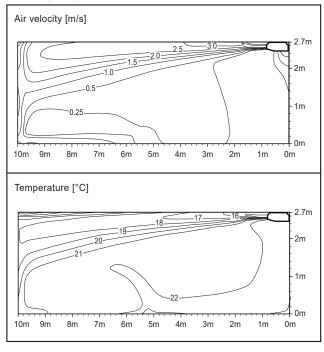
- These figures are accordance with normal certain condition and environment.
- (Airflow step is 'High', Air discharge angle is fixed as indicated angle.)

 Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

AVNW48GM2P1

Cooling

Discharge angle: 0°



- These figures are accordance with normal certain condition and environment.

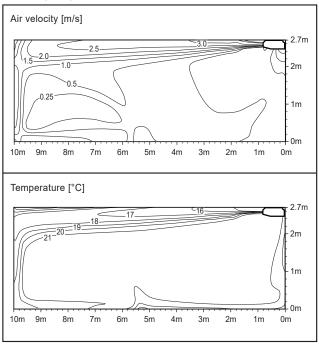
 (Airflow step is 'High', Air discharge angle is fixed as indicated angle.)

 Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

AVNW60GM2P1

Cooling

Discharge angle: 0°



- These figures are accordance with normal certain condition and environment.

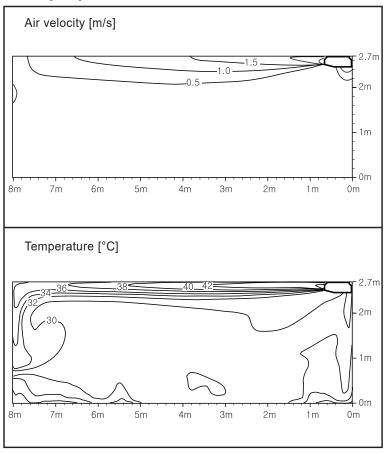
 (Airflow step is 'High', Air discharge angle is fixed as indicated angle.)

 Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

8.2 Heating Operation

AVNW36GM1P1

Discharge angle: 0°

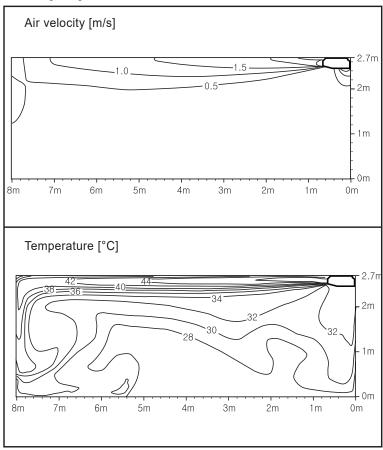


- These figures are accordance with normal certain condition and environment.
- (Airflow step is 'High', Air discharge angle is fixed as indicated angle.)

 Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation direction / location, indoor / Heating load, and other obstacles, etc.

AVNW48GM2P1, AVNW60GM2P1

Discharge angle: 0°



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

Ceiling Cassette Round

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

1. Specifications

1.1 Product

ATNW36GYLP1

Category			
Major	Minor	Unit	Specification
Classification	Chassis	-	TY
	Case 1	V, Phase, Hz	220, 1, 60
-	Case 2	V, Phase, Hz	-
Power Supply	Limit Range of Voltage(Case 1)	V	198 ~ 242
	Limit Range of Voltage(Case 2)	V	-
		kW	9.97
Cooling Capacity	Nominal	Btu/h	34,000
		kW	10.84
Heating Capacity	Nominal	Btu/h	37,000
Power Input(Indoor)	H/M/L	W	40 / 37 / 34
Running Current	H/M/L	A	-/0.67/-
	Туре		3D Turbo Fan
	Quantity	EA	-
	Air Flow Rate((SH)/H/M/L)	m³/min	-/25.0/23.0/21.0
Indoor Fan	Air Flow Rate ((SH)/H/N/L) Air Flow Rate Range(Min~Max)	m³/min	- 1 23.0 1 23.0 1 21.0
	External Static Pressure(Factory Set)	Pa	<u>-</u>
			<u>-</u>
	External Static Pressure(Min~Max)	Pa	- DI DO
	Туре	-	BLDC
Indoor Fan Motor	Drive	-	•
	Output	W	136
		No.	1
Dehumidification Rate	-	ℓ/h	4.90
	Rows x Columns x FPI	-	2 x 12 x 21 1EA, 1 x 12 x 21 1EA
Heat Exchanger	No.	-	2
j 	Fin Type	-	Slit(Half)
	Face Area	m²	0.47
Dimensions	Net(W x H x D)	mm	1,050 x 330 x 1,050
Difficusions	Shipping(W x H x D)	mm	1,120 x 388 x 1,120
Weight	Net	kg	31.0
vveignt	Shipping	kg	39.0
Exterior	Color	-	White
Exterior	RAL (Classic)	-	RAL 9003
Air Filter	Туре	-	Longlife (Pleated Type)
	Fuse	-	Fuse
Protection Device	Overload Protector for Fan Motor	-	-
	Туре	-	R410A
Refrigerant	Control Type	-	Electronic Expansion Valve
Drain Pipe(Natural Drainage)	O.D / I.D	mm(inch)	-
Drain Pipe(using Drain Pump)	O.D / I.D	mm(inch)	32.0(1-1/4) / 25.0(31/32)
	Liquid	mm(inch)	Ф9.52 (3/8)
	Gas	mm(inch)	Ф15.88 (5/8)
Pipe Connecting Socket	Connection Type(Liquid)	-	- · · · · · · · · · · · · · · · · · · ·
	Connection Type(Gas)	-	-
	Cooling ((SH)/H/M/L)	dB(A)	- / 39.0 / 37.0 / 34.0
Sound Pressure Level(Indoor Unit)	Heating ((SH)/H/M/L)	dB(A)	-/ 39.0 / 37.0 / 34.0
Measurement Standard (Pressure Leve	-5 (())		
I)		-	ISO 3745
Sound Power Level/Indeer Unit	Cooling ((SH)/H/M/L)	dB(A)	-
Sound Power Level(Indoor Unit)	Heating ((SH)/H/M/L)	dB(A)	-

1. Specifications

Category		Unit	Specification
Major	Minor	Offic	Specification
Measurement Standard (Power Level)	-	-	-
Connecting Cable	Power and Communication cable(H07RN-F, included earth)	mm² × cores	1.0 x 4C
Power Supply Type to Indoor	-	-	Supplied from ODU
Electrical Characteristic	Indoor Fan Motor_Full Load Amperes (FLA)	А	1.47

- Due to our policy of innovation some specifications may be changed without notification.
 Wiring cable size must comply with the applicable local and national code.
 And "Electric characteristics" should be considered for electrical work and design.

- Especially the power cable and circuit breaker should be selected in accordance with that.
 Sound Level Values are measured at Noise Measuring chamber accordance with standard.
 Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.

Ceiling Cassette Round

1. Specifications

ATNW60GYLP1

Category			
Major	Minor	Unit	Specification
Classification	Chassis	-	TY
	Case 1	V, Phase, Hz	220, 1, 60
	Case 2	V, Phase, Hz	-
Power Supply	Limit Range of Voltage(Case 1)	V	198 ~ 242
	Limit Range of Voltage(Case 2)	V	-
		kW	14.07
Cooling Capacity	Nominal	Btu/h	48,000
		kW	16.70
Heating Capacity	Nominal	Btu/h	57,000
Power Input(Indoor)	H/M/L	W	90 / 63 / 40
Running Current	H/M/L	А	- / 0.67 / -
	Туре	-	3D Turbo Fan
	Quantity	EA	-
	Air Flow Rate((SH)/H/M/L)	m³/min	-/32.0/28.0/23.0
Indoor Fan	Air Flow Rate Range(Min~Max)	m³/min	-
	External Static Pressure(Factory Set)	Pa	-
	External Static Pressure(Min~Max)	Pa	-
	Туре	-	BLDC
	Drive	-	-
Indoor Fan Motor		W	136
	Output	No.	1
Dehumidification Rate	-	ℓ/h	4.90
	Rows x Columns x FPI	-	2 x 12 x 21 1EA / 1 x 12 x 21 1EA
	No.	_	2
Heat Exchanger	Fin Type	_	 Slit(Half)
	Face Area	m²	0.47
	Net(W x H x D)	mm	1,050 x 330 x 1,050
Dimensions	Shipping(W x H x D)	mm	1,120 x 388 x 1,120
	Net	kg	31.0
Weight	Shipping	kg	39.0
	Color	- Kg	White
Exterior	RAL (Classic)	-	RAL 9003
Air Filter	Type	_	Longlife (Pleated Type)
All Filter	Fuse	_	Fuse
Protection Device	Overload Protector for Fan Motor	-	-
	Type	-	- R410A
Refrigerant	Control Type	<u>-</u>	Electronic Expansion Valve
Dunin Dine/National Dunings	O.D / I.D		Electronic Expansion valve
Drain Pipe(Natural Drainage)		mm(inch)	-
Drain Pipe(using Drain Pump)	O.D / I.D	mm(inch)	32.0(1-1/4) / 25.0(31/32)
	Liquid	mm(inch)	Ф9.52 (3/8)
Pipe Connecting Socket	Gas	mm(inch)	Ф19.05 (3/4)
	Connection Type(Liquid)	-	-
	Connection Type(Gas)	-	-
Sound Pressure Level(Indoor Unit)	Cooling ((SH)/H/M/L)	dB(A)	-/47.0/44.0/39.0
	Heating ((SH)/H/M/L)	dB(A)	- / 47.0 / 44.0 / 39.0
Measurement Standard (Pressure Leve I)	-	-	ISO 3745
Sound Power Level(Indoor Unit)	Cooling ((SH)/H/M/L)	dB(A)	-
Coron Loventing of Office	Heating ((SH)/H/M/L)	dB(A)	-
Measurement Standard (Power Level)	-	-	-
Connecting Cable	Power and Communication cable(H07RN-F, included earth)	mm² × cores	1.0X4C

1. Specifications

Category		Unit	Specification
Major	Minor	Oille	Specification
Power Supply Type to Indoor -		-	Supplied from ODU
Electrical Characteristic Indoor Fan Motor_Full Load Amperes (FLA)		A	1.47

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

2. List of Functions

ATNW36GYLP1, ATNW60GYLP1

Category	Functions	Availability
	Air Supply Outlet	Round
	Airflow Direction Control (left & right)	X
	Airflow Direction Control (up & down)	0
	Auto Swing (left & right)	X
	Auto Swing (up & down)	0
	Airflow Steps (fan/cool/heat)	4/5/4
A: 51	Fan Speed Auto*	Advanced
Air Flow	Power Cool/Heat	O/X
	Swirl Wind*	0
	Refresh Mode**	X
	Smart Mode**	X
	Indirect Wind*	0
	Direct Wind*	0
	Dry Operation	0
	Pre-Filter	0
A: D 'C '	Air Purify	Accessory
Air Purification	Ionizer	X
	UVnano	X
D-10-1-004	Hot Start	0
Reliability	Self Diagnosis	0
	Auto Mode	X
	Auto Dry Operation**	0
	Auto Restart	0
	Child Lock*	0
	Forced Operation	0
	Group Control*	0
Convenience	Sleep Timer**	0
	Turn On/Off Reservation**	0
	Schedule**	0
	Two Thermistor Control*	0
	Time Limit Control (Energy saving)***	0
	Temperature Setback Timer (Energy saving)***	-
	External On/Off	0
	Drain Pump	0
Installation	High Ceiling Operation*	0
	Duty Rotation / Back up Operation***	-
	Wi-Fi Control	O (Embedded)
	Comfort Cooling (Humidity Control)***	0
Special Functions	Auto Elevation Grille	X
	Human Detection Function***	X
	Floor Detection Function***	X

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

- Auto Intensity Control(Cooling Only Outdoor Unit)

2. List of Functions

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

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

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

3. Accessory Compatibility List

ATNW36GYLP1, ATNW60GYLP1

Category	Accessory Name	Model Name	Description	Compatibility
		PREMTA000	-	0
	Wired - Premium	PREMTA000A	-	0
		PREMTA000B	-	0
	Mine d. DOO (Oten deed III)	PREMTB100/PREMTB 101	White	0
	Wired - RS3 (Standard III)	PREMTBB10/PREMT BB11	Black	0
	Wine d. DOO (Oten dend II)	PREMTB001	White	0
Remote Controller	Wired - RS2 (Standard II)	PREMTBB01	Black	0
Remote Controller	Minad Cinanla	PQRCVCL0QW	White	0
	Wired - Simple	PQRCVCL0Q	Black	0
	Mine d. Oincele fee bedel	PQRCHCA0QW	White	0
	Wired - Simple for hotel	PQRCHCA0Q	Black	0
		PQWRCQ0FDB	For Cooling only	Х
	MC1	PQWRHQ0FDB	For Heat pump	0
	Wireless	PWLSSB21C	For Cooling only	Х
		PWLSSB21H	For Heat pump	0
		PDRYCB000	1 input port, AC 220 - 240V	0
	Simple	PDRYCB100	1 input port, AC 24V	0
		PDRYCB400	2 input port(For Setback)	0
Dry Contact		PDRYCB300	8 input port, For 3rd party Themostat	0
	Communication	PDRYCB320	8 input port, For 3rd Party Thermostat (Analog Input)	0
		PDRYCB500	For 3rd Party Controller(Modbus RTU)	0
	Remote Temperature sensor	PQRSTA0	Room temperature sensor, NTC 10kΩ, include casing	0
Integration Device Group Control wire		PZCWRCG3	Cable Assembly for group control (Y-type cable : 0.25m, cable : 9.6m)	0
	Extension wire	PZCWRC1	Extension wire for IDU-wired remote controller (9.6m)	Х
	2-Remo Control wire	PZCWRC2	Y-type cable to connect additional Remote Controller as slave	Х
	Wi-Fi Modem	PWFMDD200	Device to use ThinQ app include connection cable	0
	Wi-Fi Extension cable	PWYREW000	USB Extension cable : 10 m	Х
	Independent Power Module	PRIP0	For Multi V Indoor Unit	Х
	Multi-tenant Power module	PINPMB001	For Multi V Indoor Unit	Х
	Refrigerant Leakage Detector	PRLDNVS0	For Multi V Indoor Unit (R410A)	Х
	II. D. I. II. O.	PTVSMA0	For Cassette 4-way	Х
	Human Detection Sensor	PTVSAA0	For Cassette Dual Vane 4-way	Х
	Floor Detection Sensor	PTFSMA0	For Cassette Dual Vane 4-way	-
ETC	Auto Elevation Grille	PTEGM0	For Cassette 4-way	Х
		PTAHTP0	For Cassette 1-way	Х
	Air Purification Kit	PTAHMP0	For Cassette 4-way	Х
		PTAHYP0	For Cassette Round	0
	EEV Kit	PRGK024A0	For Multi V Indoor Unit	Х
	Augilian Harts 5 1 100	PRARS1	For Wall Mounted / Art Cool Indoor Units	Х
	Auxiliary Heater Relay Kit	PRARH1	For Cassette / Duct Indoor Units	Х
	V	PTVK430	For TR/TQ/TP/TN/TM Chassis	Х
	Ventilation Kit	PTVK410 / PTVK420	For TP/TN/TM Chassis	Х
		PTDCQ	For TR/TQ Chassis	Х
		1500	l I	
	Cassette Cover	PTDCM	For TP/TN/TM Chassis	Х

- Note
 O: Possible, X: Impossible, -: Unconfirmed or irrelevant.
 *: Some advanced functions controlled by individual controller cannot be operated.
 Air Purification Kit and Auto Elevation Grille are not appliable at the same time.
 If there is a difference in development time between the product and the remote controller, some functions cannot be operated.

3. Accessory Compatibility List

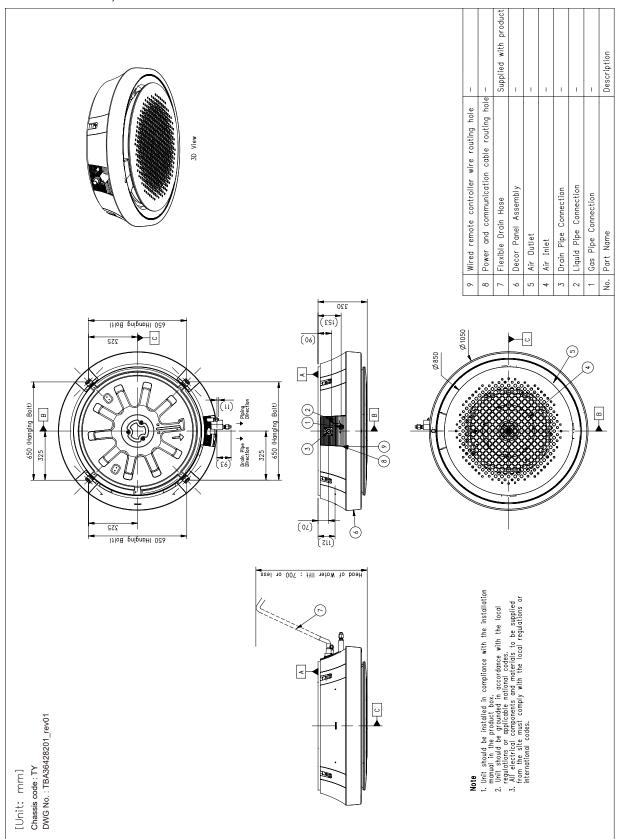
■ If you need more detail, please refer to the Control(BECON) PDB or the manual of product.

(http://partner.lge.com > Select Your Region : Home> Doc.Library> Product > Control(BECON)).

4. Dimensions

4.1 Dimensional Drawing

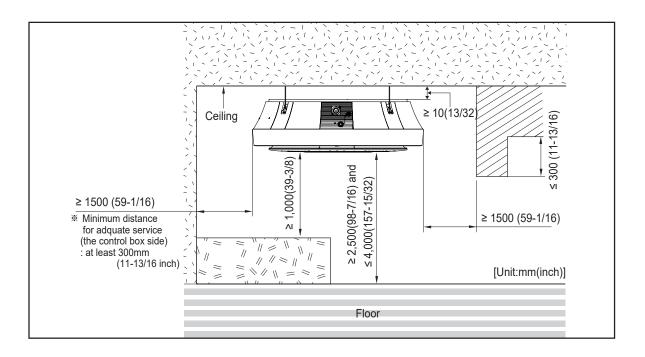
ATNW36GYLP1, ATNW60GYLP1



4. Dimensions

4.2 Installation Space

ATNW36GYLP1, ATNW60GYLP1

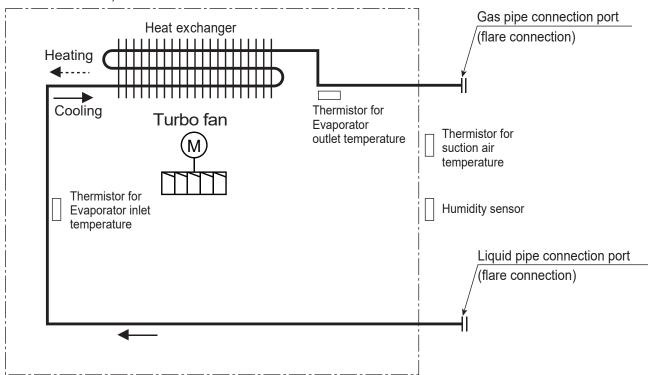


- Places where products are installed should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- According to type of indoor unit, external appearance or installed structure could be different.
 According to product type, model line up, sales region..etc, applicability of each chassis could be different.
 This product is based on exposure installation. Do not install it in a landfill site such as ceiling tax.

5. Piping Diagrams

5.1 Normal

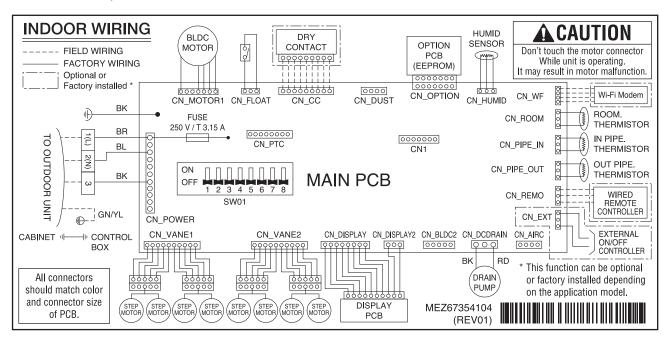
ATNW36GYLP1, ATNW60GYLP1



6. Wiring Diagrams

6.1 Product

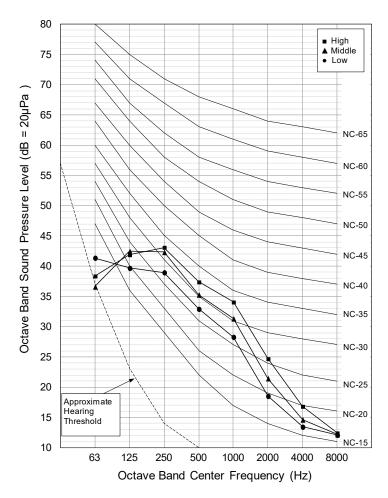
ATNW36GYLP1, ATNW60GYLP1



7. Sound Levels

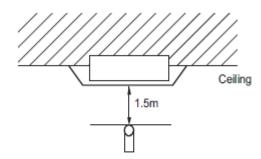
7.1 Pressure Levels

ATNW36GYLP1



Sound level [dB(A), @ Standard condition]		
Cooling ((SH)/H/M/L)	- / 39.0 / 37.0 / 34.0	
Heating ((SH)/H/M/L)	- / 39.0 / 37.0 / 34.0	

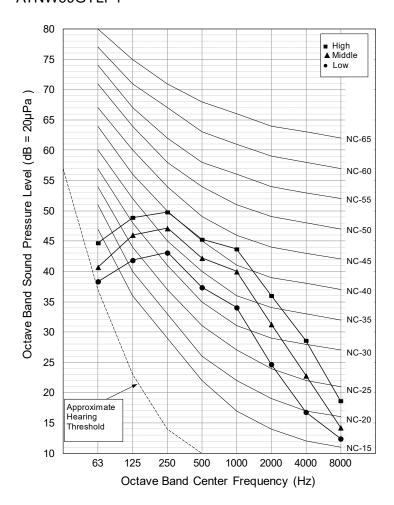
- Sound measured at some distance away from the center of the unit.
- Data is valid at free field condition.
- Reference accoustic pressure 0dB = 20µPa.
- Data is valid at nominal operation condition.
- Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
- Sound levels can be increased in accordance with installation and operating conditions. (Static pressure mode, used air guide, Room target temperature setting, etc)
- Sound pressure level is measured on the rated condition in the anectoric rooms by ISO 3745 standard.
 Therefore, these values can be increased owing to ambient conditions during operation.



^{*} Measuring place : Anechoic chamber

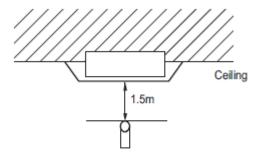
7. Sound Levels

ATNW60GYLP1



Sound level [dB(A), @ Standard condition]		
Cooling ((SH)/H/M/L) - / 47.0 / 44.0 / 39.0		
Heating ((SH)/H/M/L)	- / 47.0 / 44.0 / 39.0	

- Sound measured at some distance away from the center of the unit.
- Data is valid at free field condition.
- Reference accoustic pressure 0dB = $20\mu Pa$.
- \blacksquare Data is valid at nominal operation condition.
- Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
- Sound levels can be increased in accordance with installation and operating conditions.
 (Static pressure mode, used air guide, Room target temperature setting, etc)
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Therefore, these values can be increased owing to ambient conditions during operation.

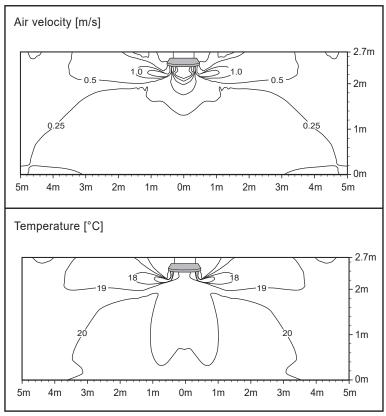


^{*} Measuring place : Anechoic chamber

8.1 Cooling Operation

ATNW36GYLP1

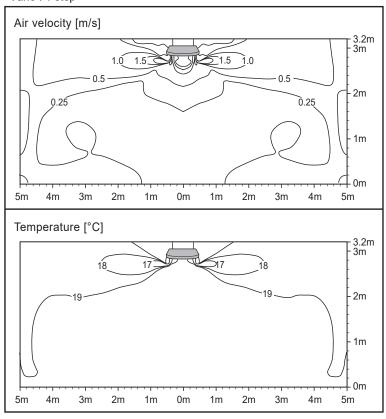
Vane: 1 step



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

ATNW60GYLP1

Vane: 1 step

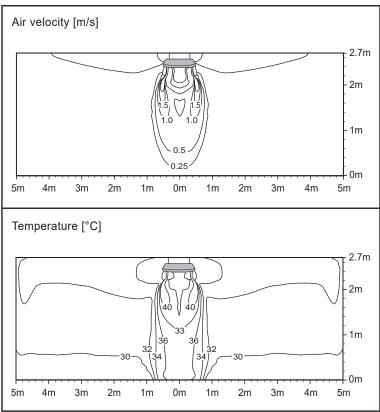


- \blacksquare These figures are accordance with normal certain condition and environment.
- (Airflow step is 'High', Air discharge angle is fixed as indicated angle.)
 Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product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

8.2 Heating Operation

ATNW36GYLP1

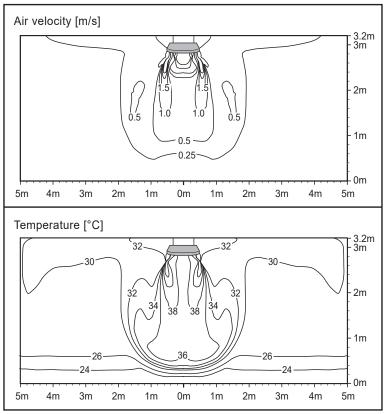
Vane: 6 step



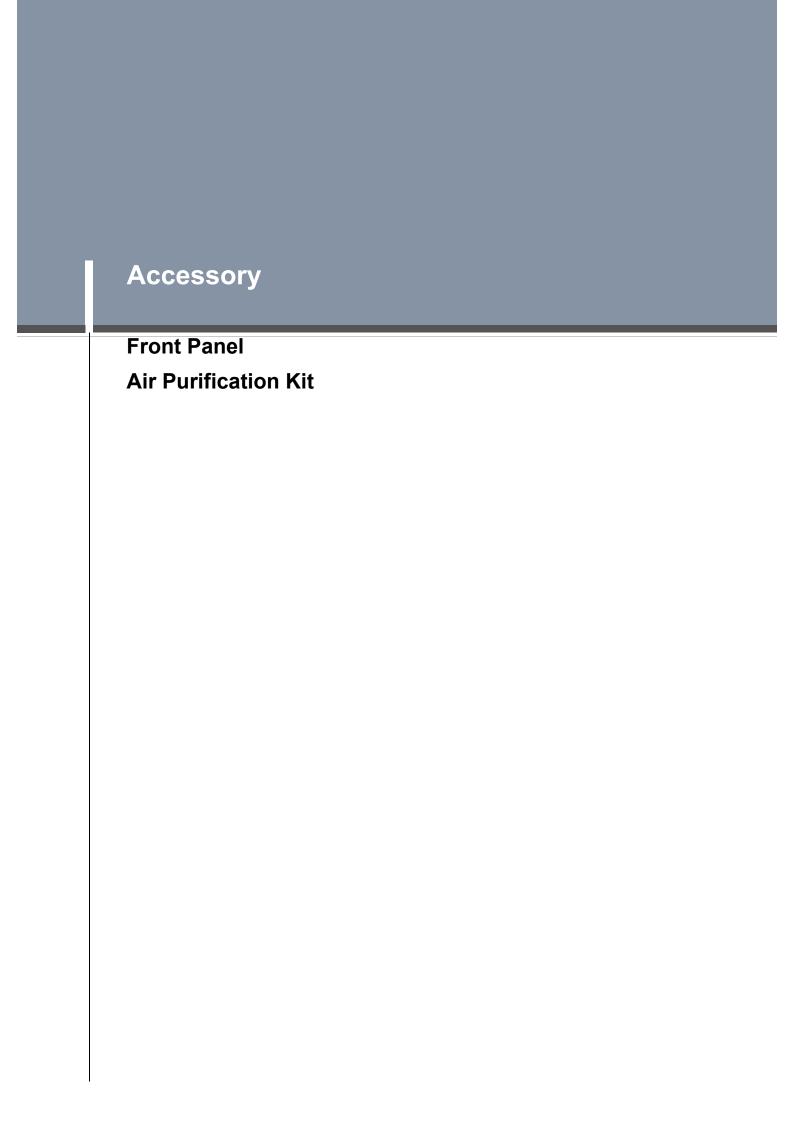
- These figures are accordance with normal certain condition and environment. (Airflow step is 'High', Air discharge angle is fixed as indicated angle.)
- Indoor airflow distribution under actual installation or operating conditions depends on ambient temperature, ceiling height, product installation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

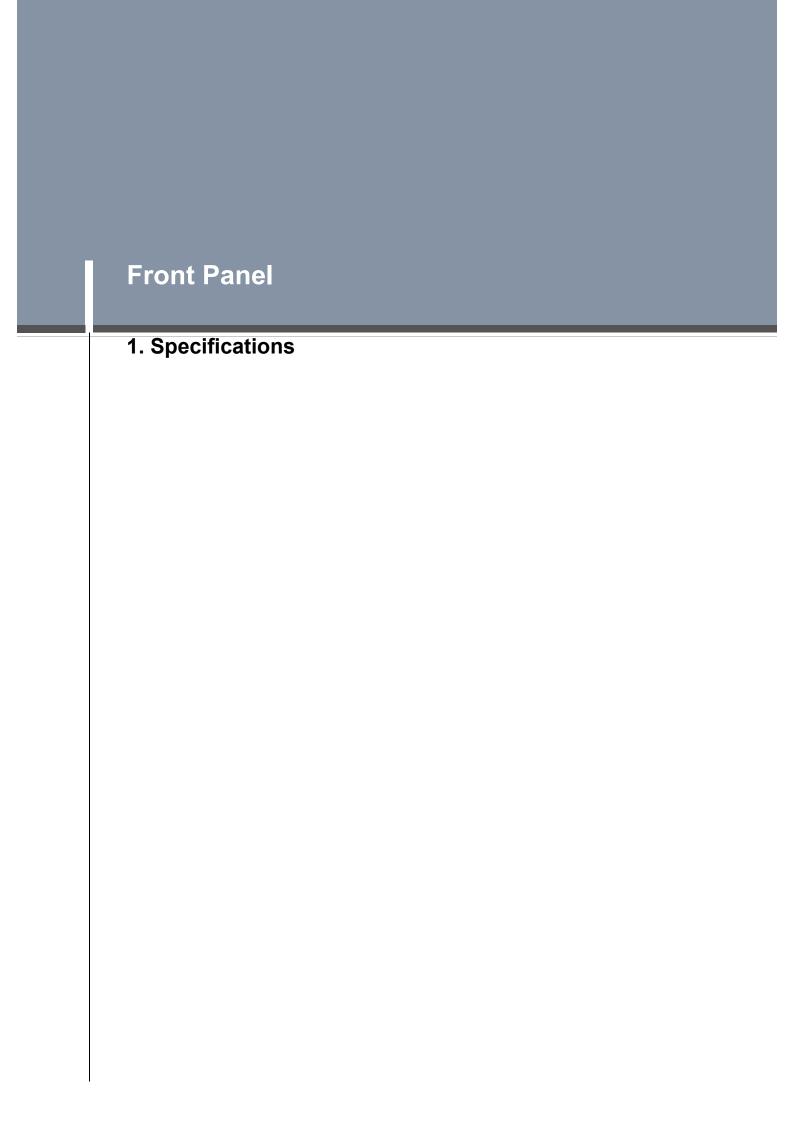
ATNW60GYLP1

Vane: 6 step



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





1. Specifications

1.1 Product

PT-AAGW0

Category		Unit	On a different on	
Major	Minor	Unit	Specification	
Model Name	Factory model	-	PT-AAGW0	
iviouei Name	Buyer model	-	PT-AAGW0	
Panel Type	-	-	Standard	
	Glossy / Matt	-	-	
Panel Exterior	Color	-	White	
Pariel Exterior	RAL (Classic)	-	RAL 9003	
	Grille Type (Grille / Grid)	-	Grid	
Panel Dimension	Net (W x H x D)	mm	950 x 35 x 950	
Panel Dimension	Shipping (W x H x D)	mm	1,006 x 102 x 1,006	
Danal Wainh	Net	kg	7.1	
Panel Weight	Shipping	kg	9.3	
Panel Function	PM1.0 Sensor	-	Х	
	Air Purification Kit	-	Х	
Panel Accessory	Floor Detection Sensor	-	PTFSMA0	
	Human Detection Sensor	-	PTVSAA0	

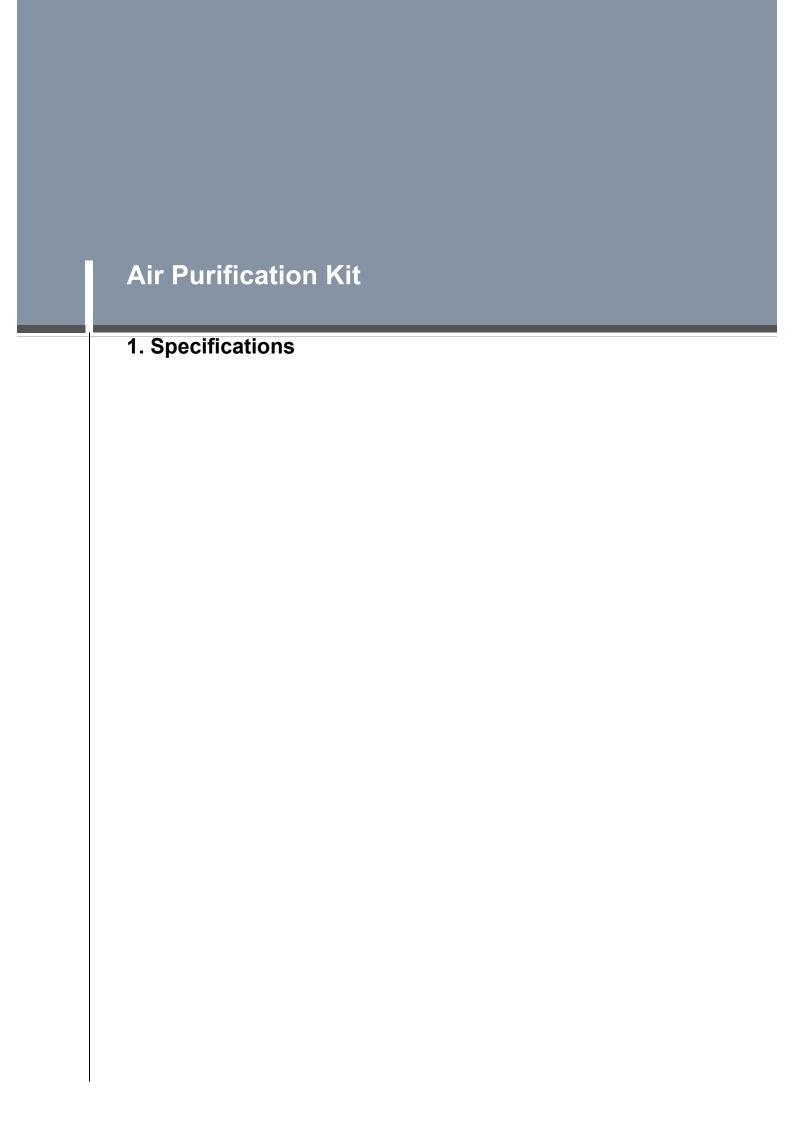
- Some functions need to connect to the Standard III wired remote controller.
 Accessory: Ordered and purchased separately the accessory package referring to the model name provided and install at field

1. Specifications

PT-AFGW0

Category		Unit	Consideration
Major	Minor	Unit	Specification
Model Name	Factory model	-	PT-AFGW0
Woder Name	Buyer model	-	PT-AFGW0
Panel Type	-	-	Premium
	Glossy / Matt	-	-
Panel Exterior	Color	-	White
Faller Exterior	RAL (Classic)	-	RAL 9003
	Grille Type (Grille / Grid)	-	Grid
Panel Dimension	Net (W x H x D)	mm	950x35x950
Pariel Dimension	Shipping (W x H x D)	mm	1,006x117x1,006
Panel Weight	Net	kg	7.50
Panel Weight	Shipping	kg	9.40
Panel Function	PM1.0 Sensor	-	0
	Air Purification Kit	-	PTAHMP0
Panel Accessory	Floor Detection Sensor	-	PTFSMA0
	Human Detection Sensor	-	PTVSAA0

- Some functions need to connect to the Standard III wired remote controller.
 Accessory: Ordered and purchased separately the accessory package referring to the model name provided and install at field



1. Specifications

1.1 Product

PTAHMP0

Category		Unit	Outselfischisco	
Major	Minor	Unit	Specification	
Air Purification Kit	Applied Chassis	-	TP/TN/TM/TP-B/TM-A	
	Applied Panel	-	PT-MPGW0 (U-style) / PT-AFGW0 (Dual Vane)	
	Size(W x H x D)	mm	59 x 45 x 22	
PM 1.0 Sensor	Supply Voltage	V	5	
	Measure	-	PM1.0 / PM2.5 / PM10	
	Size(W x H x D)	mm	99 X 50 X 30	
HVPS	Input	-	DC 12V	
	Output(Electrification / Dust Collection)	-	-7.7kV / -5.2kV	
PM 1.0 Filter	Size(W x H x D)	mm	500 x 38 x 395	
	Weight	g	2,090	
Deodorization Filter	Material	-	Pulp + Carbon (Corrugate)	
	Size(W x H x D)	mm	478 x 14 x 138	
	Weight	g	180	
lonizer	Size(W x H x D)	mm	71 x 19 x 30	
	Input	-	DC 12V	
	Output	-	-3.2kV	
	Amount of Ion Emission	EA / cc	3,000,000	

Air Purification Kit Accessory

1. Specifications

PTAHTP0

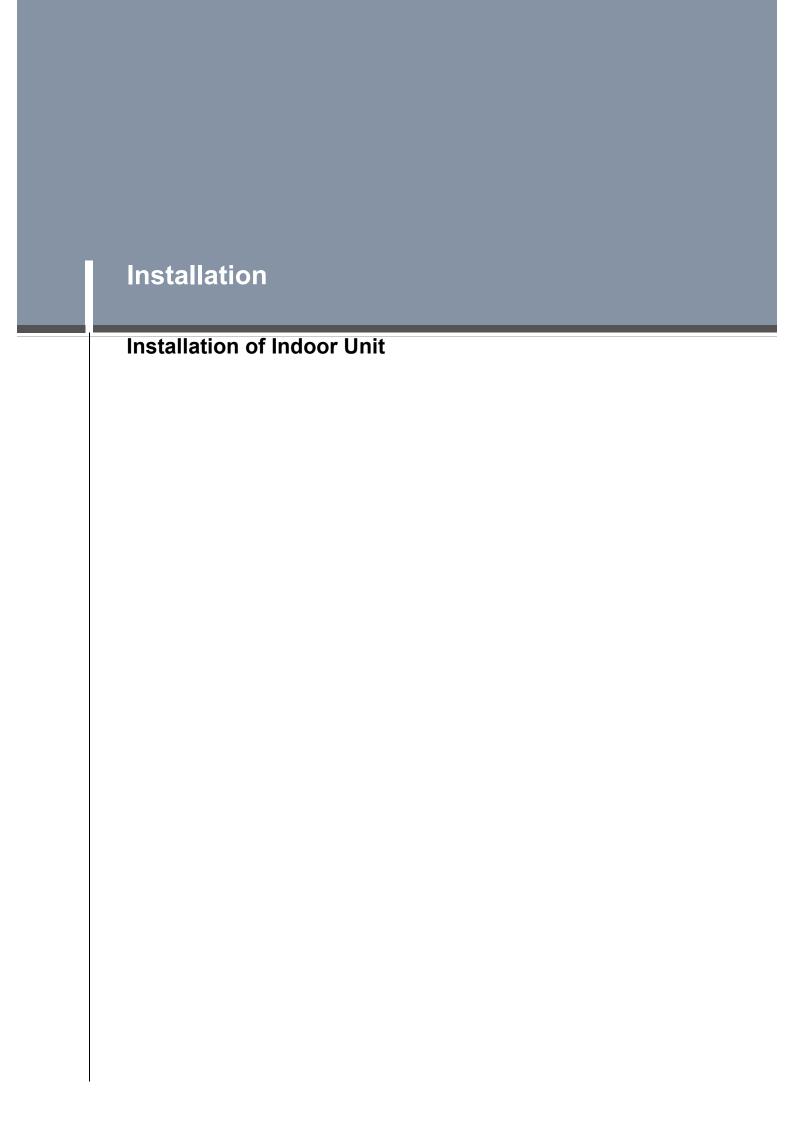
Category		Unit	Cunnification	
Major	Minor	Unit	Specification	
Air Purification Kit	Applied Chassis	-	TU / TT	
	Applied Panel	-	PT-UPHG0 / PT-TPHG0	
	Size(W x H x D)	mm	59 x 45 x 22	
PM 1.0 Sensor	Supply Voltage	V	5	
	Measure	-	PM1.0 / PM2.5 / PM10	
	Size(W x H x D)	mm	99 X 50 X 30	
HVPS	Input	-	DC 12V	
	Output(Electrification / Dust Collection)	-	-7.7kV / -5.2kV	
PM 1.0 Filter	Size(W x H x D)	mm	524 x 18 x 141	
FIM 1.0 Filter	Weight	g	430	
	Material	-	Pulp + Carbon (Corrugate)	
Deodorization Filter	Size(W x H x D)	mm	301 x 11 x 100	
	Weight	g	40	
	Size(W x H x D)	mm	71 x 19 x 30	
lonizer	Input	-	DC 12V	
Torrizer	Output	-	-3.2kV	
	Amount of Ion Emission	EA / cc	3,000,000	

Air Purification Kit Accessory

1. Specifications

PTAHYP0

Category		Unit	Cunnification	
Major	Minor	Unit	Specification	
Air Purification Kit	Applied Chassis	-	TY	
	Applied Panel	-	-	
	Size(W x H x D)	mm	59 x 45 x 16.6	
PM 1.0 Sensor	Supply Voltage	V	5	
	Measure	-	PM1.0 / PM2.5 / PM10	
	Size(W x H x D)	mm	99 x 50 x 30	
HVPS	Input	-	DC 12V	
	Output(Electrification / Dust Collection)	-	-7.7kV / -5.7kV	
PM 1.0 Filter	Size(W x H x D)	mm	500 x 38 x 395	
FW 1.0 Filter	Weight	g	2,090	
	Material	-	Pulp + Carbon(corrugate)	
Deodorization Filter	Size(W x H x D)	mm	478 x 14 x 138	
	Weight	g	180	
	Size(W x H x D)	mm	-	
lonizer	Input	-	-	
IOUIZEI	Output	-	-	
	Amount of Ion Emission	EA / cc	-	



1.1 R410A as an Alternative Refrigerant

The type of refrigerant applied depends on the outdoor unit cycle configuration. Ensure the refrigerant type in the specification of the indoor unit and outdoor unit to be installed.

■ Alternative Refrigerant _ R410A

- The refrigerant R410A has the property of higher operating pressure in comparison with R22.

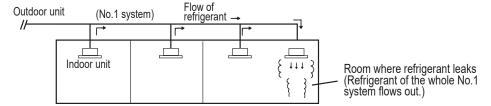
 Therefore, all materials have the characteristics of higher resisting pressure than ones of R22 and this characteristic should also be considered during the installation.
- The wall thickness of the piping should comply with the relevant local and national regulations for the designed pressure. (R410A 3.8MPa)
- For high-pressure refrigerant, any unapproved pipe must not be used.
- Do not heat pipes more than necessary to prevent them from softening.
- · Do not place the refrigerant container under the direct rays of the sun to prevent it from exploding.
- R410A is an azeotrope of R32 and R125 mixed at 50:50, so the ozone depletion potential(ODP) of R410A is 0.
- Since R410A is a mixed refrigerant, the required additional refrigerant must be charged in its liquid state.

 If the refrigerant is charged in its gaseous state, its composition changes and the system will not work properly.
- Be careful not to install wrongly to minimize economic loss because it is expensive in comparison with R22.

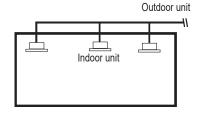
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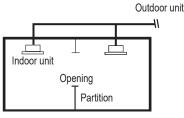
1.2 Cautions for Refrigerant Leaks of R410A

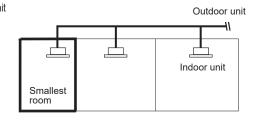
< Needs to Calculation of Refrigeran concentration >



< Calculation of Room Space >



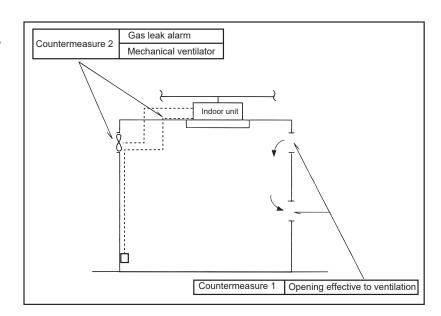




: Range ov Room space

In the case of opening without door, or openings both above and below door which is more than 0.15 % to floor space)

< Countermeasure when concentration is exceed >



The installer and system specialist shall secure safety against leakage according to local regulations or standards. The following standards may be applicable if local regulations are not available.

■ Concentration limit: 0.44 kg/m³ (for R410A)

Concentration limit (Freon gas weight per unit air volume, kg/m³) is the limit of Freon gas concentration where immediate measures can be taken without hurting human body when refrigerant leaks in the air.

■ Calculate refrigerant concentration

Check concentration limit along following steps and take appropriate measure depending on the situation.

(1) Calculate total amount of refrigerant per each system (A, kg)

Total amount of refrigerant in the system (A, kg)

- = Amount of pre-charged refrigerant per single system(B, kg) + Amount of additional replenished refrigerant(C, kg)
- (B: Amount of replenished refrigerant at factory shipment)
- (C : Amount of additionally replenished refrigerant depending on piping length or piping diameter by customer)

- ※ In case one refrigerant facility is divided into 2 or more refrigerant systems and each system is independent, amount of replenished refrigerant of each system shall be adopted.
- (2) Calculate the volume of the room where indoor unit is installed as single room or the smallest room. (D, m³) In case of room with partition and without opening which serve as passage of air to adjoining room, calculate the room space only.
- In case of room with partition but opened which serve passage of air to adjoining room, calculate the room space include space of adjoining room. (In the case of opening without door, or openings both above and below door which is more than space 0.15 % to floor space)
- (3) Calculate refrigerant concentration.

Refrigerant concentration

= Total amount of refrigerant system (A, kg) \div Volume of smallest room where indoor unit is installed (D, m³) [Refrigerant concentration \le Maximum concentration (kg/m³, R410A is 0.44)]

In case the result of calculation exceeds the concentration limit, perform the same calculations by shifting to the second smallest, and the third smallest rooms until at last the result is below the concentration limit.

In case the concentration exceeds the limit

When the concentration exceeds the limit, change original plan or take one of the counter measure shown below:

- Counter measure 1
- Provide opening 0.15% or more size of opening to floor space both above and below door for ventilation, or provide opening without door.
- Counter measure 2
- Provide gas leak alarm linked with mechanical ventilator.
- Counter measure 3

Reducing the system's refrigerant quantity by deviding into smaller separate system.

<! > CAUTIONS

Pay a special attention to the place, such as a basement, etc. where refrigerant can stay, since refrigerant is heavier than air.

1.3 R32 as an Alternative Refrigerant

The type of refrigerant applied depends on the outdoor unit cycle configuration. Ensure the refrigerant type in the specification of the indoor unit and outdoor unit to be installed.

■ Alternative Refrigerant _ R32

- The refrigerant R32 has a lower GWP (Global Warming Potential) value, and higher efficiency than R410A. The Ozone Depletion Potential (ODP) of R32 is 0, and Global Warming Potential(GWP) is 675.
- Refrigerant piping consists of copper/steel pipes, joints, and other fittings.All components must be selected and installed in conformity with the standards pertaining to the Refrigeration Safety Regulation.
- Same piping as for R410A can be used.

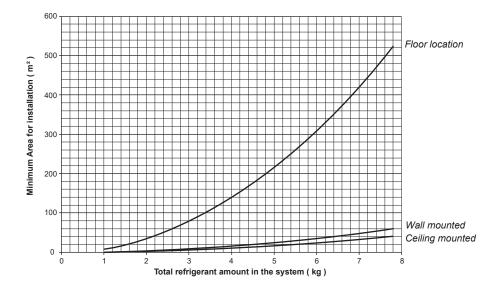
<! > WARNING

- This product contains fluorinated greenhouse gases (Refrigerant type : R32). DO NOT LEAK refrigerant gases into the atmosphere.
- The refrigerant R32 is a Slightly Flammable gas. It does not leak normally. If the refrigerant leaks in the installed place and is in contact with a flaming source, it may cause fire, or a harmful gas.
- If there is some leak, turn off any combustion devices, ventilate the installation location, and contact the dealer from which you purchased the unit. Do not use the unit until the refrigerant leaked is repaired.
- Only use R32 as refrigerant. Other substances may cause explosions and accidents.

<! > CAUTIONS

- The wall thickness of the piping should comply with the relevant local and national regulations for the designed pressure.
- For high-pressure refrigerant, any unapproved pipe must not be used.
- Do not heat pipes more than necessary to prevent them from softening.

1.4 Minimum Floor Area for Installation fo R32 model: accordance with IEC05

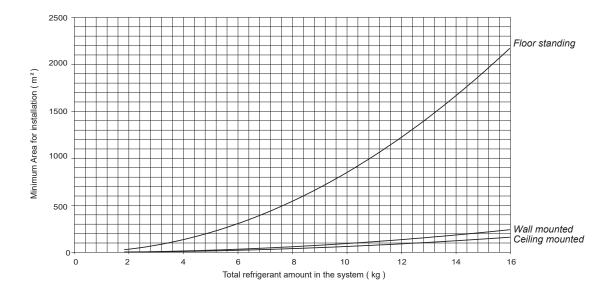


<!> CAUTIONS

- "Minimum Area for installation" might be different by revision of IEC regulation. "Minimum Area for installation" should be selected in accordance with that revision based on the local and national environment.
- The following information is according to 'IEC 60335-2-40:2013+A1:2016 Edition 5.1'.
- Pipe-work shall be protected from physical damage and shall not be installed in an unventilated space, if that space is smaller than minimum area for installation.
- The unit should be installed, operated and stored in a room with a floor area larger than the minimum area. Use the upper graph or the below table to determine the minimum area.
 - m_c : Total refrigerant amount in the system = factory refrigerant charge + additional refrigerant amount (kg)
 - A_{min}: Minimum Area for installation of unit

m _c (kg)	A _{min}			
	Floor Location	Wall Mounted	Ceiling Mounted	
1.0	8.58	0.95	0.64	
1.224	12.90	1.43	0.958	
1.4	16.82	1.87	1.25	
1.6	21.97	2.44	1.63	
1.8	27.80	3.09	2.07	
2.0	34.32	3.81	2.55	
2.2	41.53	4.61	3.09	
2.4	49.42	5.49	3.68	
2.6	58.00	6.44	4.31	
2.8	67.27	7.47	5.00	
3.0	77.22	8.58	5.74	
3.2	87.86	9.76	6.54	
3.4	99.19	11.02	7.38	
3.6	111.20	12.36	8.27	
3.8	123.90	13.77	9.22	
4.0	137.29	15.25	10.21	
4.2	151.36	16.82	11.26	
4.4	166.12	18.46	12.36	
4.6	181.56	20.17	13.50	
4.8	197.70	21.97	14.70	
5.0	214.51	23.83	15.96	
5.2	232.02	25.78	17.26	
5.4	250.21	27.80	18.61	
5.6	269.09	29.90	20.01	
5.8	288.65	32.07	21.47	
6.0	308.90	34.32	22.98	
6.2	329.84	36.65	24.53	
6.4	351.46	39.05	26.14	
6.6	373.77	41.53	27.80	
6.8	396.76	44.08	29.51	
7.0	420.45	46.72	31.27	
7.2	444.81	49.42	33.09	
7.4	469.87	52.21	34.95	
7.6	495.61	55.07	36.86	
7.8	522.04	58.00	38.83	

1.5 Minimum Floor Area for Installation fo R32 model: accordance with IEC06



<!> CAUTIONS

- "Minimum Area for installation" might be different by revision of IEC regulation. "Minimum Area for installation" should be selected in accordance with that revision based on the local and national environment.
- The following information is according to 'IEC 60335-2-40:2018 Edition 6.0'.
- Pipe-work shall be protected from physical damage and shall not be installed in an unventilated space, if that space is smaller than minimum area for installation.
- The unit should be installed, operated and stored in a room with a floor area larger than the minimum area. Use the below calcuation formula to determine the minimum area.
 - m_C: Total refrigerant amount in the system = factory refrigerant charge + additional refrigerant amount (kg)
 - A_{min} : Minimum Area for installation of unit
 - LFL : Lower flammability limit (kg/m³). In case of R32, LFL is 0.307 kg/m³
 - h₀: Height of unit installation

Choose the higher of the two values.

 $A_{min} = [m_c / (2.5 \times LFL^{5/4} \times h_0)]^2$ or $A_{min} = m_c / (0.75 \times LFL \times h_0)$

* The table below is a reference value, and the exact value is calculated and applied.

m _c (kg)	A _{min}	m _c (kg)	A _{min}	m _c (kg)	A _{min}
< 1.842	No Limit	6.6	27.6	11.6	85.2
1.842	3.6	6.8	29.3	11.8	88.1
2.0	3.9	7.0	31.0	12.0	91.2
2.2	4.3	7.2	32.8	12.2	94.2
2.4	4.7	7.41	34.7	12.4	97.3
2.6	5.1	7.6	36.6	12.6	100.5
2.8	5.5	7.8	38.5	12.8	103.7
3.0	5.9	8.0	40.5	13.0	107.0
3.2	6.5	8.2	42.6	13.2	110.3
3.4	7.3	8.4	44.7	13.4	113.7
3.6	8.2	8.6	46.8	13.6	117.1
3.8	9.1	8.8	49.0	13.8	120.6
4.0	10.1	9.0	51.3	14.0	124.1
4.2	11.2	9.2	53.6	14.2	127.6
4.4	12.3	9.4	55.9	14.4	131.3
4.6	13.4	9.6	58.3	14.6	134.9
4.8	14.6	9.8	60.8	14.8	138.7
5.0	15.8	10.0	63.3	15.0	142.4
5.2	17.1	10.2	65.9	15.2	146.3
5.4	18.5	10.4	68.5	15.4	150.1
5.6	19.9	10.6	71.1	15.6	154.1
5.8	21.3	10.8	73.8	15.8	158.0
6.0	22.8	11.0	76.6	15.964	161.3
6.2	24.3	11.2	79.4		
6.4	25.9	11.4	82.3		

2. Selection of the best Location

When selecting a location the product is installed, it is recommended to consider the following:

- The unit must be installed indoor area.
- Do not install the unit near the door.
- There should not be any obstacles to the air circulation or installation. Ensure the spaces from the wall, ceiling, or other obstacles.
- The place where the unit is leveled.
- The place shall allow easy water drainage.
- The place where bear a load exceeding four times of weight of the unit.
- 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, and that location 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.

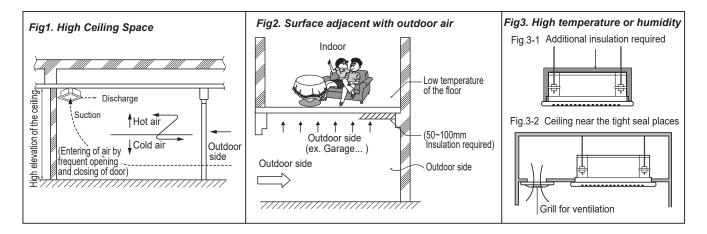
In these cases, take the following actions;

- 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 unit in such a place where it may not suck oily steam.
- 2) Avoid installing the unit in such places where cooking oil or iron powder is generated.
- 3) Avoid places where inflammable gas is generated.
- 4) Avoid places where noxious gas is generated.
- 5) Avoid places near high frequency generators.

<! > CAUTIONS

- If the temperature rise above 30°C or the humidity rise above RH 80%, additional insulation working is needed to the unit body for protection of dew formation.
 - Use the glass wool material or polyethylene foam and it make sure to be thick of 10mm at least.

3. Precautions regarding cassette indoor unit installation



■ In case of High Ceiling space installation [Fig.1]

In general commercial places and offices though the height of the ceiling is 2.7m, and 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

- Air conditioner should be able to operate in high ceiling operation mode.
- Plan to install the circulator.
- The air discharge port should be made to give more airflow to the down floor directions.
- The gate or exit of the building is protected by dual door system to minimize inflow of outdoor air.

■ In case the floor or surfaces is contact with the outdoor air directly [Fig.2]

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.

Countermeasure method

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

<!> CAUTIONS

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.)

■ In case of installation where high temperature or humidity [Fig.3]

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

4. Connecting pipes

■ Refrigerant piping work

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

<! > CAUTIONS

- When mechanical connectors are reused, indoors' sealing parts shall be renewed.
- When flared joints are reused, indoors' the flare part shall be re-fabricated.

■ Piping insulation work

- Perform heat insulation work completely on both gas and the liquid pipe. Because improper insulation will result condensate formation over pipe.
- Use the heat insulation material for the refrigerant piping which has an excellent heat resistance (over 120°C (248°F)).
- Precautions in high humidity circumstance
- This air conditioner has been tested according to the "KS Conditions" and confirmed.
- If it is operated for a long time in high humid atmosphere (dew point temperature: more than 23°C(73°F)), water drops are liable to fall. In this case, add heat insulation material according to the following procedure.
 - : Heat insulation material : Adiabatic glass wool with thickness of 10~20mm(13/32 ~13/16 inch).
 - : Stick glass wool on all air conditioners that are located in ceiling atmosphere.

<! > CAUTIONS

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

5. Electrical Wiring

5.1 General Instruction

For wiring work, it is recommended to consider the following:

- · 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.

<! > CAUTIONS

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

- · Never fail to have separate power specially for this unit.
- 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.
- All of the indoor units and outdoor units shoul be grounded. If grounding is not properly done, there is a risk of electric shock. Grounding must be done by a qualified technician.

■ Wiring Connections

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

If wiring and piping between the outdoor unit and indoor unit are mismatched, the system may cause a malfunction.

<! > CAUTIONS

- 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.

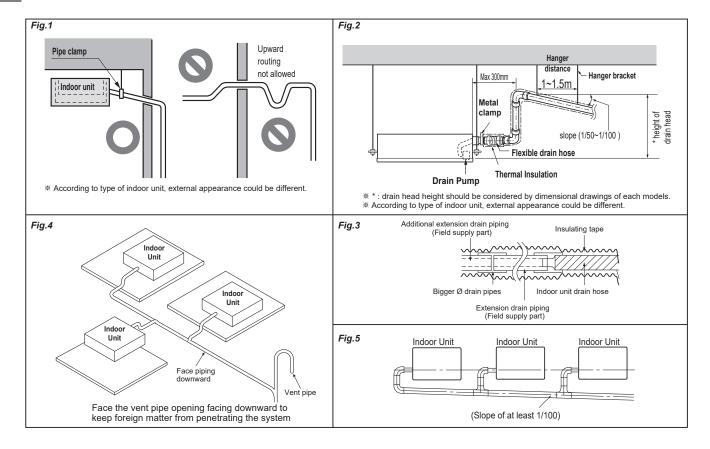
5. Electrical Wiring

5.2 Installation of Wired remote controller(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 1.5m (5ft) 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 (4~5ft) from floor level.)

6. Drain pipe connection



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

■ Dimension of drain pipe connection [Fig.1, Fig.2]

- 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. VP 20 or VP 25 pipe fittings.
- · Be sure to install heat insulation on the drain piping.
- Heat insulation material: Polyethylene foam with thickness more than 8 mm (5/16 inch).
- Possible drain head height is specified to range of 700 ~ 800 mm(27-6/19 ~ 31-1/2 inch). So the drain head should be installed below that (Refer to Dimensional Drawings of each).

■ Connection of an auxiliary(flexible) drain hose [Fig.3]

• 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.

<! > CAUTIONS

- 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.
- When extending the drain hose, use a commercially available drain extension hose, and be sure to insulate the extended section of the drain hose which is indoors.
- Make sure the diameter of the extension drain piping is the same as the indoor unit drain hose size or bigger.

■ Ground drain piping [Fig.4, Fig.5]

- Select diameter of drain piping which adapts to the capacity of the unit connected. 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.



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

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