

# LG

**SINGLE CAC**

Heat Pump 50Hz/410A  
5CSL0-02E(Replaces:5CSL0-02D)

# TOTAL HVAC

# SOLUTION

# PROVIDER

## ENGINEERING PRODUCT DATA BOOK

# **SINGLE CAC**

## **Outdoor Unit**

### **General Information**

### **Product Data**

#### **Standard Inverter**

#### **Standard Inverter - Synchro**

#### **Compact Inverter**

### **Installation of Outdoor Units**

# **SINGLE CAC**

## **Outdoor Unit**



### **General Information**



- 1. Model Line Up**
- 2. Nomenclature**


# 1. Model Line Up

## 1.1 Standard Inverter

### ■ 1 Phase Inverter

Model Names	AUW09GA0 [UU09W UL0]	AUW12GA0 [UU12W UL0]	AUW18GAE [UU18W UE4]
No. of connectable indoor units	1		
Total capacity index of connectable indoor units(kW)	2.5	3.5	5.0
Power supply	1Ø, 220 - 240V, 50Hz		
External Appearance			


Model Names	AUW24GAE [UU24W U44]	AUW30GAE [UU30W U44]	AUW366D2 [UU36W UO2]
No. of connectable indoor units	1		
Total capacity index of connectable indoor units(kW)	7.1	8.0	10.0
Power supply	1Ø, 220 - 240V, 50Hz		
External Appearance			


Model Names	AUW426D2 [UU42W U32]	AUW486D2 [UU48W U32]	AUW606D2 [UU60W U32]
No. of connectable indoor units	1 ~ 4		
Total capacity index of connectable indoor units(kW)	12.5	14.0	15.0
Power supply	1Ø, 220 - 240V, 50Hz		
External Appearance			





# 1. Model Line Up

## ■ 3 Phase Inverter



<b>Model Names</b>	<b>AU UW368D2 [UU37W UO2]</b>
No. of connectable indoor units	1
Total capacity index of connectable indoor units(kW)	10.0
Power supply	3Ø, 380 - 415V, 50Hz
External Appearance	



<b>Model Names</b>	<b>AU UW428D2 [UU43W U32]</b>	<b>AU UW488D2 [UU49W U32]</b>	<b>AU UW608D2 [UU61W U32]</b>
No. of connectable indoor units	1 ~ 4		
Total capacity index of connectable indoor units(kW)	12.5	14.0	15.0
Power supply	3Ø, 380 - 415V, 50Hz		
External Appearance			

<b>Model Names</b>	<b>AU UW70LAE [UU70W U34]</b>	<b>AU UW85LAE [UU85W U74]</b>
No. of connectable indoor units	1 ~ 4	
Total capacity index of connectable indoor units(kW)	19.0	23.0
Power supply	3Ø, 380 - 415V, 50Hz	
External Appearance		

# 1. Model Line Up

## 1.2 Compact Inverter

Model Names	AUW18GC0 [UU18WC UL0]	AUW24GC0 [UU24WC UE0]
No. of connectable indoor units	1	
Nominal Capacity (kW)	4.7	6.8
Power supply	1Ø, 220 - 240V, 50Hz	
External Appearance		

Model Names	AUW30GC0 [UU30WC UE0]	AUW36GC0 [UU36WC U40]
No. of connectable indoor units	1	
Nominal Capacity (kW)	7.5	9.5
Power supply	1Ø, 220 - 240V, 50Hz	
External Appearance		

## 2. Nomenclature

### 2.1 Outdoor units(Global)

Model Name	AUU	W	24	6	D	2
No.	1	2	3	4	5	6

No.	Signification
1	Indicates that this is a <b>R410A SINGLE A outdoor unit</b>
2	<b>Model type</b> C : Cooling Only, H : Heat Pump, W: Inverter Heat Pump
3	<b>Capacity Code based on 'kBtu/h' units</b>
4	<b>Electrical rating</b> 6:1Ø,220V-240V,50 Hz 8:3Ø,380V-415V,50 Hz G: 1Ø, 220-240V, 50Hz / 1Ø, 220V, 60Hz L : 3Ø, 380-415V,50Hz / 3Ø, 380V, 50Hz
5	<b>Model Type</b> D, A : Standard C : Compact
6	<b>Serial No.</b>

### 2.2 Outdoor units(Europe)

Model Name	U	U	24	W		U4	2
No.	1	2	3	4	5	6	7

No.	Signification
1	<b>Model type</b> U : Universal model
2	<b>Type</b> U : Outdoor units
3	<b>Cooling / heating capacity (kBtu/h)</b>
4	<b>Model type</b> W : Inverter
5	<b>C : Compact</b>
6	<b>Outdoor unit chassis name</b>
7	<b>Serial number</b>

# **SINGLE CAC**

Outdoor Unit

## **Product Data**

**Standard Inverter**

**Standard Inverter - Synchro**

**Compact Inverter**

# **SINGLE CAC**

Outdoor Unit

## **Standard Inverter**

- 1. List of Functions**
- 2. Specifications**
- 3. Dimensions**
- 4. Piping Diagrams**
- 5. Wiring Diagrams**
- 6. Capacity Tables**
- 7. Capacity Coefficient Factor**
- 8. Operation Range**
- 9. Electric Characteristics**
- 10. Sound Levels**

# 1. List of Functions

## ■ 1 Phase Inverter

### ◆ List of function

Category	Functions	AUUW09GA0 [UU09W UL0], AUUW12GA0 [UU12W UL0]
Reliability	Defrost / Deicing	O
	High pressure switch	X
	Low pressure switch	X
	Phase protection	X
	Restart delay (3-minutes)	O
	Self diagnosis	O
	Soft start	O
Convenience	Test function	O
	Night Silent Operation	O
	Peak Control	X
	Mode Lock	X
	Forced Cooling Operation (Outdoor Unit)	O
Network function	Network solution(LGAP)	X
ODU Dry Contact		X

#### Note

1. O : Applied, X : Not applied

Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.

Accessory line-ups varies by region, so check your local catalogue or local sales material.

### ◆ Accessory Compatibility List

Category	Product	Etc	AUUW09GA0 [UU09W UL0] AUUW12GA0 [UU12W UL0]	
Central Controller	Simple	PQCSZ250S0	AC EZ	X
	AC Ez Touch	PACEZA000	AC Ez Touch	X
	AC Smart	PACS5A000	AC Smart 5	X
	ACP	PACP5A000	ACP 5	X
	AC Manager <sup>2)</sup>	PACM5A000	AC Manager 5	X
Gateway	ODU PI485	PMNFP14A1	PI 485 Gateway	X
	Low Ambient Kit	PRVC2	From MULTI V 4 series	O(Logical operation)
	AHU Comm. Kit	PAHCMR000	Return / Room Air Control	X
		PAHCMS000	Supply Air Control by DDC	X
	BACnet	PQNFB17C0	ACP BACnet	X
Lonworks	PLNWKB000	ACP Lonworks	X	

#### Note

1. O: Possible, X: Impossible, - : Not applicable

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

3. 2) : ACP or AC Smart is needed.

4. Compatibility of individual controller(wireless/wired remote controller) could be found with function list on Indoor Unit's PDB.

5. If you need more detail, please refer to the **BECON** PDB or the manual of product.

(<http://partner.lge.com/global> : Home> Doc.Library> Product > Control(BECON))

# 1. List of Functions

## ◆ List of function

Category	Functions	AUUW18GAE [UU18W UE4], AUUW24GAE [UU24W U44] AUUW30GAE [UU30W U44]
Reliability	Defrost / Deicing	O
	High pressure switch	X
	Low pressure switch	X
	Phase protection	X
	Restart delay (3-minutes)	O
	Self diagnosis	O
	Soft start	O
Convenience	Test function	O
	Night Silent Operation	O
	Peak Control	O
	Mode Lock	O
	Forced Cooling Operation (Outdoor Unit)	O
Network function	Network solution(LGAP)	O
ODU Dry Contact		X

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## ◆ Accessory Compatibility List

Category	Product	Etc	AUUW18GAE [UU18W UE4] AUUW24GAE [UU24W U44] AUUW30GAE [UU30W U44]	
Central Controller	Simple	PQCSZ250S0	AC EZ	O
	AC Ez Touch	PACEZA000	AC Ez Touch	O
	AC Smart	PACS5A000	AC Smart 5	O
	ACP	PACP5A000	ACP 5	O
	AC Manager <sup>2)</sup>	PACM5A000	AC Manager 5	O
Gateway	ODU PI485	PMNFP14A1	PI 485 Gateway	O
	Low Ambient Kit	PRVC2	From MULTI V 4 series	O(Logical operation)
	AHU Comm. Kit	PAHCMR000	Return / Room Air Control	O
		PAHCMS000	Supply Air Control by DDC	O
	BACnet	PQNFB17C0	ACP BACnet	O
Lonworks	PLNWKB000	ACP Lonworks	O	

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# 1. List of Functions

## ◆ List of function

Category	Functions	AUUW366D2 [UU36W UO2], AUUW426D2 [UU42W U32] AUUW486D2 [UU48W U32], AUUW606D2 [UU60W U32]
Reliability	Defrost / Deicing	O
	High pressure switch	X
	Low pressure switch	X
	Phase protection	X
	Restart delay (3-minutes)	O
	Self diagnosis	O
	Soft start	O
Convenience	Test function	O
	Night Silent Operation	O
	Peak Control	X
	Mode Lock	X
	Forced Cooling Operation (Outdoor Unit)	O
Network function	Network solution(LGAP)	O
ODU Dry Contact		O (On/off control)

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## ◆ Accessory Compatibility List

Category	Product	Etc	AUUW366D2 [UU36W UO2] AUUW426D2 [UU42W U32] AUUW486D2 [UU48W U32] AUUW606D2 [UU60W U32]	
Central Controller	Simple	PQCSZ250S0	AC EZ	O
	AC Ez Touch	PACEZA000	AC Ez Touch	O
	AC Smart	PACS5A000	AC Smart 5	O
	ACP	PACP5A000	ACP 5	O
	AC Manager <sup>2)</sup>	PACM5A000	AC Manager 5	O
Gateway	ODU PI485	PMNFP14A1	PI 485 Gateway	O
	Low Ambient Kit	PRVC2	From MULTI V 4 series	O(Logical operation)
	AHU Comm. Kit	PAHCMR000	Return / Room Air Control	O
		PAHCMS000	Supply Air Control by DDC	X
	BACnet	PQNFB17C0	ACP BACnet	O
Lonworks	PLNWKB000	ACP Lonworks	O	

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# 1. List of Functions

## ■ 3 Phase Inverter

### ◆ List of function

Category	Functions	AUUW368D2 [UU37W UO2], AUUW428D2 [UU43W U32] AUUW488D2 [UU49W U32], AUUW608D2 [UU61W U32]
Reliability	Defrost / Deicing	O
	High pressure switch	X
	Low pressure switch	X
	Phase protection	O
	Restart delay (3-minutes)	O
	Self diagnosis	O
	Soft start	O
Convenience	Test function	O
	Night Silent Operation	O
	Peak Control	X
	Mode Lock	X
	Forced Cooling Operation (Outdoor Unit)	O
Network function	Network solution(LGAP)	O
ODU Dry Contact		O (On/off control)

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### ◆ Accessory Compatibility List

Category	Product	Etc	AUUW368D2 [UU37W UO2] AUUW428D2 [UU43W U32] AUUW488D2 [UU49W U32] AUUW608D2 [UU61W U32]	
Central Controller	Simple	PQCSZ250S0	AC EZ	O
	AC Ez Touch	PACEZA000	AC Ez Touch	O
	AC Smart	PACS5A000	AC Smart 5	O
	ACP	PACP5A000	ACP 5	O
	AC Manager <sup>2)</sup>	PACM5A000	AC Manager 5	O
Gateway	ODU PI485	PMNFP14A1	PI 485 Gateway	O
	Low Ambient Kit	PRVC2	From MULTI V 4 series	O(Logical operation)
	AHU Comm. Kit	PAHCMR000	Return / Room Air Control	O
		PAHCMS000	Supply Air Control by DDC	X
	BACnet	PQNFB17C0	ACP BACnet	O
Lonworks	PLNWKB000	ACP Lonworks	O	

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# 1. List of Functions

## ◆ List of function

Category	Functions	AUUW70LAE [UU70W U34], AUUW85LAE [UU85W U74]
Reliability	Defrost / Deicing	O
	High pressure switch	X
	Low pressure switch	X
	Phase protection	O
	Restart delay (3-minutes)	O
	Self diagnosis	O
	Soft start	O
Convenience	Test function	O
	Night Silent Operation	O
	Peak Control	O
	Mode Lock	O
	Forced Cooling Operation (Outdoor Unit)	O
Network function	Network solution(LGAP)	O
ODU Dry Contact		O (On/off control)

### Note

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## ◆ Accessory Compatibility List

Category	Product	Etc	AUUW70LAE [UU70W U34] AUUW85LAE [UU85W U74]	
Central Controller	Simple	PQCSZ250S0	AC EZ	O
	AC Ez Touch	PACEZA000	AC Ez Touch	O
	AC Smart	PACS5A000	AC Smart 5	O
	ACP	PACP5A000	ACP 5	O
	AC Manager <sup>2)</sup>	PACM5A000	AC Manager 5	O
Gateway	ODU PI485	PMNFP14A1	PI 485 Gateway	O
	Low Ambient Kit	PRVC2	From MULTI V 4 series	O(Logical operation)
	AHU Comm. Kit	PAHCMR000	Return / Room Air Control	O
		PAHCMS000	Supply Air Control by DDC	O
	BACnet	PQNFB17C0	ACP BACnet	O
Lonworks	PLNWKB000	ACP Lonworks	O	

### Note

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## 2. Specifications

### ■ Combinational Specifications

#### ◆ 1 Phase Inverter

Combination	Outdoor unit			AUUW09GA0 [UU09W UL0]	AUUW09GA0 [UU09W UL0]
	Indoor unit			ATNH09GRLE2 [CT09 NR2]	ABNW09GL2A2 [CB09L N22]
Capacity	Cooling	Min.~Rated~Max.	kW	1.00 ~ 2.50 ~ 2.75	1.10 ~ 2.50 ~ 2.90
		Min.~Rated~Max.	Btu/h	3,400 ~ 8,500 ~ 9,400	3,800 ~ 8,500 ~ 9,900
	Heating	Min.~Rated~Max.	kW	1.20 ~ 3.00 ~ 3.30	1.20 ~ 3.20 ~ 3.60
		Min.~Rated~Max.	Btu/h	4,100 ~ 10,200 ~ 11,300	4,100 ~ 10,900 ~ 12,300
Power Input	Cooling	Rated	kW	0.625	0.660
	Heating	Rated	kW	0.800	0.800
Running Current	Cooling	Rated	A	2.70	2.90
	Heating	Rated	A	3.50	3.50
SEER / SCOP			Wh / Wh	6.44 / 4.00	6.28 / 4.00
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A++ / A+	A++ / A+
Annual Energy Consumption		Cooling / Heating	kWh	136 / 980	139 / 1,050

Combination	Outdoor unit			AUUW09GA0 [UU09W UL0]	AUUW09GA0 [UU09W UL0]
	Indoor unit			AVNH09GELA2 [CV09 NE2]	AQNHO9GALA0 [CQ09 NA0]
Capacity	Cooling	Min.~Rated~Max.	kW	1.00 ~ 2.50 ~ 2.75	1.30 ~ 2.55 ~ 2.80
		Min.~Rated~Max.	Btu/h	3,400 ~ 8,500 ~ 9,400	4,400 ~ 8,700 ~ 9,600
	Heating	Min.~Rated~Max.	kW	1.20 ~ 3.00 ~ 3.30	1.36 ~ 3.10 ~ 3.40
		Min.~Rated~Max.	Btu/h	4,100 ~ 10,200 ~ 11,300	4,600 ~ 10,600 ~ 11,600
Power Input	Cooling	Rated	kW	0.700	0.700
	Heating	Rated	kW	0.830	0.840
Running Current	Cooling	Rated	A	3.10	3.10
	Heating	Rated	A	3.60	3.70
SEER / SCOP			Wh / Wh	5.87 / 3.81	5.60 / 3.81
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A+ / A	A+ / A
Annual Energy Consumption		Cooling / Heating	kWh	149 / 1,029	159 / 1,029

#### 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 codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than  $\pm 1\%$  according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Combination	Outdoor unit			AUUW12GA0 [UU12W UL0]	AUUW12GA0 [UU12W UL0]
	Indoor unit			ATNH12GRLE2 [CT12 NR2]	ABNH12GL2A2 [CB12L N22]
Capacity	Cooling	Min.~Rated~Max.	kW	1.36 ~ 3.40 ~ 3.74	1.40 ~ 3.40 ~ 3.70
		Min.~Rated~Max.	Btu/h	4,600 ~ 11,600 ~ 12,800	4,800 ~ 11,600 ~ 12,600
	Heating	Min.~Rated~Max.	kW	1.60 ~ 4.00 ~ 4.40	1.60 ~ 4.00 ~ 4.50
		Min.~Rated~Max.	Btu/h	5,500 ~ 13,600 ~ 15,000	5,500 ~ 13,600 ~ 15,400
Power Input	Cooling	Rated	kW	0.970	0.950
	Heating	Rated	kW	1.150	1.050
Running Current	Cooling	Rated	A	4.30	4.20
	Heating	Rated	A	5.00	4.60
SEER / SCOP			Wh / Wh	6.46 / 4.10	6.28 / 4.00
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A++ / A+	A++ / A+
Annual Energy Consumption		Cooling / Heating	kWh	184 / 1,024	189 / 1,050

Combination	Outdoor unit			AUUW12GA0 [UU12W UL0]	AUUW12GA0 [UU12W UL0]
	Indoor unit			AVNH12GELA2 [CV12 NE2]	AQNH12GALA0 [CQ12 NA0]
Capacity	Cooling	Min.~Rated~Max.	kW	1.32 ~ 3.30 ~ 3.63	1.36 ~ 3.50 ~ 3.74
		Min.~Rated~Max.	Btu/h	4,500 ~ 11,300 ~ 12,400	4,600 ~ 11,900 ~ 12,800
	Heating	Min.~Rated~Max.	kW	1.52 ~ 3.80 ~ 4.30	1.60 ~ 4.00 ~ 4.40
		Min.~Rated~Max.	Btu/h	5,200 ~ 13,000 ~ 14,700	5,500 ~ 13,600 ~ 15,000
Power Input	Cooling	Rated	kW	1.030	1.090
	Heating	Rated	kW	1.180	1.210
Running Current	Cooling	Rated	A	4.50	4.80
	Heating	Rated	A	5.10	5.30
SEER / SCOP			Wh / Wh	6.28 / 3.81	5.60 / 3.81
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A++ / A	A+ / A
Annual Energy Consumption		Cooling / Heating	kWh	184 / 1,029	219 / 1,102

### 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 codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than  $\pm 1\%$  according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Combination	Outdoor unit			AUUW18GAE [UU18W UE4]	AUUW18GAE [UU18W UE4]
	Indoor unit			ATNW18GQLA0 [CT18 NQ4]	ABNW18GM1A0 [CM18 N14]
Capacity	Cooling	Min.~Rated~Max.	kW	2.00 ~ 5.00 ~ 5.50	1.80 ~ 5.00 ~ 6.00
		Min.~Rated~Max.	Btu/h	6,800 ~ 17,100 ~ 18,700	6,100 ~ 17,100 ~ 20,500
	Heating	Min.~Rated~Max.	kW	2.20 ~ 5.80 ~ 6.80	2.20 ~ 6.00 ~ 7.20
		Min.~Rated~Max.	Btu/h	7,500 ~ 19,800 ~ 23,200	7,500 ~ 20,500 ~ 24,600
Power Input	Cooling	Rated	kW	1.56	1.46
	Heating	Rated	kW	1.66	1.66
Running Current	Cooling	Rated	A	7.10	6.50
	Heating	Rated	A	7.50	7.60
SEER / SCOP			Wh / Wh	6.10 / 4.25	6.10 / 4.15
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A++ / A+	A++ / A+
Annual Energy Consumption		Cooling / Heating	kWh	287 / 1,351	287 / 1,383

Combination	Outdoor unit			AUUW18GAE [UU18W UE4]
	Indoor unit			ABNH18GL2A2 [CB18 N22]
Capacity	Cooling	Min.~Rated~Max.	kW	2.00 ~ 5.00 ~ 6.00
		Min.~Rated~Max.	Btu/h	6,800 ~ 17,100 ~ 20,500
	Heating	Min.~Rated~Max.	kW	2.20 ~ 6.00 ~ 7.20
		Min.~Rated~Max.	Btu/h	7,500 ~ 20,500 ~ 24,600
Power Input	Cooling	Rated	kW	1.55
	Heating	Rated	kW	1.50
Running Current	Cooling	Rated	A	6.80
	Heating	Rated	A	8.40
SEER / SCOP			Wh / Wh	6.10 / 3.95
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A++ / A
Annual Energy Consumption		Cooling / Heating	kWh	287 / 1,418

Combination	Outdoor unit			AUUW18GAE [UU18W UE4]	AUUW18GAE [UU18W UE4]
	Indoor unit			UVNH18GJLA2 [CV18 NJ2]	AQNH18GALA0 [CQ18 NA0]
Capacity	Cooling	Min.~Rated~Max.	kW	1.92 ~ 5.00 ~ 5.80	2.20 ~ 5.00 ~ 5.60
		Min.~Rated~Max.	Btu/h	6,500 ~ 17,100 ~ 19,800	7,500 ~ 17,100 ~ 19,100
	Heating	Min.~Rated~Max.	kW	2.00 ~ 5.20 ~ 6.00	2.20 ~ 4.80 ~ 5.80
		Min.~Rated~Max.	Btu/h	6,800 ~ 17,700 ~ 20,500	7,500 ~ 16,400 ~ 19,800
Power Input	Cooling	Rated	kW	1.46	1.55
	Heating	Rated	kW	1.53	1.50
Running Current	Cooling	Rated	A	6.70	7.00
	Heating	Rated	A	6.90	6.90
SEER / SCOP			Wh / Wh	6.10 / 4.15	6.20 / 3.81
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A++ / A+	A++ / A
Annual Energy Consumption		Cooling / Heating	kWh	287 / 1,349	282 / 1,396

### Note

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- Power factor could vary less than  $\pm 1\%$  according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Combination	Outdoor unit			AUUW24GAE [UU24W U44]	AUUW24GAE [UU24W U44]
	Indoor unit			ATNW24GPLA0 [CT24 NP4]	ABNW24GM1A0 [CM24 N14]
Capacity	Cooling	Min.~Rated~Max.	kW	2.84 ~ 6.80 ~ 7.80	2.80 ~ 6.80 ~ 7.48
		Min.~Rated~Max.	Btu/h	9,700 ~ 23,200 ~ 26,600	9,500 ~ 23,200 ~ 25,500
	Heating	Min.~Rated~Max.	kW	3.20 ~ 8.00 ~ 8.80	3.20 ~ 7.50 ~ 8.25
		Min.~Rated~Max.	Btu/h	10,900 ~ 27,300 ~ 30,000	10,900 ~ 25,600 ~ 28,100
Power Input	Cooling	Rated	kW	2.00	2.07
	Heating	Rated	kW	2.22	2.34
Running Current	Cooling	Rated	A	8.90	9.10
	Heating	Rated	A	9.70	10.30
SEER / SCOP			Wh / Wh	6.80 / 4.20	6.10 / 3.90
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A++ / A+	A++ / A
Annual Energy Consumption		Cooling / Heating	kWh	350 / 2,110	390 / 2,154

Combination	Outdoor unit			AUUW24GAE [UU24W U44]	AUUW24GAE [UU24W U44]
	Indoor unit			ABNH24GL3A2 [CB24L N32]	UVNH24GJLA2 [CV24 NJ2]
Capacity	Cooling	Min.~Rated~Max.	kW	4.00 ~ 7.10 ~ 7.70	2.80 ~ 6.80 ~ 7.48
		Min.~Rated~Max.	Btu/h	13,600 ~ 24,200 ~ 26,300	9,500 ~ 23,200 ~ 25,500
	Heating	Min.~Rated~Max.	kW	2.00 ~ 7.50 ~ 8.25	3.08 ~ 7.50 ~ 8.25
		Min.~Rated~Max.	Btu/h	6,800 ~ 25,600 ~ 28,100	10,500 ~ 25,600 ~ 28,100
Power Input	Cooling	Rated	kW	2.36	2.25
	Heating	Rated	kW	2.05	2.45
Running Current	Cooling	Rated	A	10.4	9.90
	Heating	Rated	A	9.00	10.8
SEER / SCOP			Wh / Wh	5.60 / 3.90	5.80 / 3.90
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A+ / A	A+ / A
Annual Energy Consumption		Cooling / Heating	kWh	444 / 2,082	410 / 2,154

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- Power factor could vary less than  $\pm 1\%$  according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Combination	Outdoor unit			AUUW30GAE [UU30W U44]	AUUW30GAE [UU30W U44]
	Indoor unit			ATNW30GPLA0 [UT30 NP4]	ABNW30GM1A0 [UM30 N14]
Capacity	Cooling	Min.~Rated~Max.	kW	3.20 ~ 8.00 ~ 8.80	3.20 ~ 7.80 ~ 8.80
		Min.~Rated~Max.	Btu/h	10,900 ~ 27,300 ~ 30,000	10,900 ~ 26,600 ~ 30,000
	Heating	Min.~Rated~Max.	kW	3.60 ~ 9.00 ~ 9.90	3.60 ~ 9.00 ~ 9.90
		Min.~Rated~Max.	Btu/h	12,300 ~ 30,700 ~ 33,800	12,300 ~ 30,700 ~ 33,800
Power Input	Cooling	Rated	kW	2.49	2.41
	Heating	Rated	kW	2.72	2.62
Running Current	Cooling	Rated	A	10.80	10.10
	Heating	Rated	A	11.80	10.70
SEER / SCOP			Wh / Wh	6.30 / 4.00	6.10 / 4.00
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A++ / A+	A++ / A+
Annual Energy Consumption		Cooling / Heating	kWh	444 / 2,380	448 / 2,275

Combination	Outdoor unit			AUUW30GAE [UU30W U44]	AUUW30GAE [UU30W U44]
	Indoor unit			UVNH30GJLA2 [UV30 NJ2]	AJNW30GVLA0 [UJ30 NV2]
Capacity	Cooling	Min.~Rated~Max.	kW	3.04 ~ 7.60 ~ 8.40	3.50 ~ 7.80 ~ 8.50
		Min.~Rated~Max.	Btu/h	10,400 ~ 25,900 ~ 28,600	11,900 ~ 26,600 ~ 29,000
	Heating	Min.~Rated~Max.	kW	3.36 ~ 8.20 ~ 9.24	4.00 ~ 8.40 ~ 9.20
		Min.~Rated~Max.	Btu/h	11,500 ~ 28,000 ~ 31,500	13,600 ~ 28,700 ~ 31,400
Power Input	Cooling	Rated	kW	2.52	2.29
	Heating	Rated	kW	2.72	2.46
Running Current	Cooling	Rated	A	11.00	10.00
	Heating	Rated	A	11.80	10.70
SEER / SCOP			Wh / Wh	5.61 / 3.90	6.11 / 3.91
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A+ / A	A++ / A
Annual Energy Consumption		Cooling / Heating	kWh	474 / 2,262	448 / 2,262

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- Power factor could vary less than  $\pm 1\%$  according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Combination	Outdoor unit			AUW366D2 [UU36W UO2]	AUW366D2 [UU36W UO2]
	Indoor unit			ATNH36GNLE2 [UT36 NN2]	ABNW36GM2A0 [UM36 N24]
Capacity	Cooling	Min.~Rated~Max.	kW	4.00 ~ 10.0 ~ 11.0	4.00 ~ 10.0 ~ 11.0
		Min.~Rated~Max.	Btu/h	13,600 ~ 34,100 ~ 37,500	13,600 ~ 34,100 ~ 37,500
	Heating	Min.~Rated~Max.	kW	4.40 ~ 11.0 ~ 12.1	4.50 ~ 11.2 ~ 12.3
		Min.~Rated~Max.	Btu/h	15,000 ~ 37,500 ~ 41,300	15,400 ~ 38,200 ~ 42,000
Power Input	Cooling	Rated	kW	2.82	3.12
	Heating	Rated	kW	3.09	3.19
Running Current	Cooling	Rated	A	12.30	13.60
	Heating	Rated	A	13.40	13.90
SEER / SCOP			Wh / Wh	5.41 / 3.81	5.11 / 3.81
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A / A	A / A
Annual Energy Consumption		Cooling / Heating	kWh	648 / 2,800	685 / 2,866

Combination	Outdoor unit			AUW366D2 [UU36W UO2]	AUW366D2 [UU36W UO2]
	Indoor unit			UVNH36GKLA2 [UV36 NK2]	AJNW36GVLA1 [UJ36 NV3]
Capacity	Cooling	Min.~Rated~Max.	kW	3.80 ~ 9.50 ~ 10.5	4.00 ~ 9.50 ~ 10.50
		Min.~Rated~Max.	Btu/h	13,000 ~ 32,400 ~ 35,800	13,600 ~ 32,400 ~ 35,800
	Heating	Min.~Rated~Max.	kW	4.20 ~ 10.5 ~ 11.6	4.40 ~ 10.50 ~ 11.50
		Min.~Rated~Max.	Btu/h	14,300 ~ 35,800 ~ 39,600	15,000 ~ 35,800 ~ 39,200
Power Input	Cooling	Rated	kW	2.78	2.79
	Heating	Rated	kW	3.08	3.27
Running Current	Cooling	Rated	A	12.10	12.10
	Heating	Rated	A	13.40	13.40
SEER / SCOP			Wh / Wh	5.11 / 3.81	5.41 / 3.81
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A / A	A / A
Annual Energy Consumption		Cooling / Heating	kWh	652 / 2,800	615 / 2,505

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- Power factor could vary less than  $\pm 1\%$  according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.



## 2. Specifications

Combination	Outdoor unit			AUW426D2 [UU42W U32]	AUW426D2 [UU42W U32]
	Indoor unit			ATNH42GMLE2 [UT42 NM2]	ABNW42GM2A0 [UM42 N24]
Capacity	Cooling	Min.~Rated~Max.	kW	5.00 ~ 12.5 ~ 13.8	5.00 ~ 12.1 ~ 13.2
		Min.~Rated~Max.	Btu/h	17,100 ~ 42,700 ~ 47,100	17,100 ~ 41,300 ~ 45,000
	Heating	Min.~Rated~Max.	kW	5.00 ~ 14.0 ~ 15.4	5.60 ~ 14.0 ~ 15.0
		Min.~Rated~Max.	Btu/h	17,100 ~ 47,800 ~ 52,600	19,100 ~ 47,800 ~ 51,200
Power Input	Cooling	Rated	kW	3.89	3.76
	Heating	Rated	kW	3.88	3.86
Running Current	Cooling	Rated	A	16.90	16.60
	Heating	Rated	A	16.90	17.20
SEER / SCOP			Wh / Wh	-	-
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	-	-
Annual Energy Consumption		Cooling / Heating	kWh	-	-

Combination	Outdoor unit			AUW426D2 [UU42W U32]
	Indoor unit			UVNH42GLLA2 [UV42 NL2]
Capacity	Cooling	Min.~Rated~Max.	kW	5.00 ~ 12.5 ~ 13.8
		Min.~Rated~Max.	Btu/h	17,100 ~ 42,700 ~ 47,100
	Heating	Min.~Rated~Max.	kW	5.60 ~ 13.6 ~ 15.4
		Min.~Rated~Max.	Btu/h	19,100 ~ 46,400 ~ 52,600
Power Input	Cooling	Rated	kW	3.89
	Heating	Rated	kW	3.68
Running Current	Cooling	Rated	A	16.90
	Heating	Rated	A	16.00
SEER / SCOP			Wh / Wh	-
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	-
Annual Energy Consumption		Cooling / Heating	kWh	-

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- Power factor could vary less than  $\pm 1\%$  according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Combination	Outdoor unit			AUUW486D2 [UU48W U32]	AUUW486D2 [UU48W U32]
	Indoor unit			ATNH48GMLE2 [UT48 NM2]	ABNW48GM3A0 [UM48 N34]
Capacity	Cooling	Min.~Rated~Max.	kW	5.48 ~ 13.9 ~ 15.7	5.60 ~ 14.0 ~ 15.4
		Min.~Rated~Max.	Btu/h	18,700 ~ 47,400 ~ 53,600	19,100 ~ 47,800 ~ 52,600
	Heating	Min.~Rated~Max.	kW	6.40 ~ 15.4 ~ 17.6	6.60 ~ 15.8 ~ 18.2
		Min.~Rated~Max.	Btu/h	21,800 ~ 52,600 ~ 60,100	22,500 ~ 53,900 ~ 62,100
Power Input	Cooling	Rated	kW	4.62	4.10
	Heating	Rated	kW	4.51	4.39
Running Current	Cooling	Rated	A	20.10	17.3
	Heating	Rated	A	19.60	18.5
SEER / SCOP			Wh / Wh	-	- / -
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	-	- / -
Annual Energy Consumption		Cooling / Heating	kWh	-	- / -

Combination	Outdoor unit			AUUW486D2 [UU48W U32]	AUUW486D2 [UU48W U32]
	Indoor unit			UVNH48GLLA2 [UV48 NL2]	APNH48GTLA0 [UP48 NT2]
Capacity	Cooling	Min.~Rated~Max.	kW	5.32 ~ 13.3 ~ 14.6	6.00 ~ 13.4 ~ 15.2
		Min.~Rated~Max.	Btu/h	18,200 ~ 45,400 ~ 49,800	20,500 ~ 45,700 ~ 51,900
	Heating	Min.~Rated~Max.	kW	6.40 ~ 15.3 ~ 17.6	6.00 ~ 15.5 ~ 17.1
		Min.~Rated~Max.	Btu/h	21,800 ~ 52,200 ~ 60,100	20,500 ~ 52,900 ~ 58,300
Power Input	Cooling	Rated	kW	4.28	4.20
	Heating	Rated	kW	4.49	4.50
Running Current	Cooling	Rated	A	18.60	18.10
	Heating	Rated	A	19.50	19.50
SEER / SCOP			Wh / Wh	-	-
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	-	-
Annual Energy Consumption		Cooling / Heating	kWh	-	-

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- Power factor could vary less than  $\pm 1\%$  according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Combination	Outdoor unit			AUW606D2 [UU60W U32]	AUW606D2 [UU60W U32]
	Indoor unit			ATNH60GMLE2 [UT60 NM2]	ABNW60GM3A0 [UM60 N34]
Capacity	Cooling	Min.~Rated~Max.	kW	5.92 ~ 14.6 ~ 16.3	5.90 ~ 15.0 ~ 16.3
		Min.~Rated~Max.	Btu/h	20,200 ~ 49,800 ~ 55,600	20,100 ~ 51,200 ~ 55,600
	Heating	Min.~Rated~Max.	kW	6.80 ~ 16.9 ~ 18.7	6.80 ~ 16.8 ~ 18.7
		Min.~Rated~Max.	Btu/h	23,200 ~ 57,700 ~ 63,800	23,200 ~ 57,300 ~ 63,800
Power Input	Cooling	Rated	kW	5.40	4.53
	Heating	Rated	kW	5.50	4.79
Running Current	Cooling	Rated	A	23.50	19.1
	Heating	Rated	A	23.90	20.2
SEER / SCOP			Wh / Wh	-	- / -
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	-	- / -
Annual Energy Consumption		Cooling / Heating	kWh	-	- / -

Combination	Outdoor unit			AUW606D2 [UU60W U32]
	Indoor unit			UVNH60GLLA2 [UV60 NL2]
Capacity	Cooling	Min.~Rated~Max.	kW	5.72 ~ 14.4 ~ 15.7
		Min.~Rated~Max.	Btu/h	19,500 ~ 49,100 ~ 53,600
	Heating	Min.~Rated~Max.	kW	6.80 ~ 16.8 ~ 18.7
		Min.~Rated~Max.	Btu/h	23,200 ~ 57,300 ~ 63,800
Power Input	Cooling	Rated	kW	5.24
	Heating	Rated	kW	5.42
Running Current	Cooling	Rated	A	22.80
	Heating	Rated	A	23.60
SEER / SCOP			Wh / Wh	-
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	-
Annual Energy Consumption		Cooling / Heating	kWh	-

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- Power factor could vary less than  $\pm 1\%$  according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

### ◆ 3 Phase Inverter

Combination	Outdoor unit			AUUW368D2 [UU37W UO2]	AUUW368D2 [UU37W UO2]
	Indoor unit			ATNH36GNLE2 [UT36 NN2]	ABNW36GM2A0 [UM36 N24]
Capacity	Cooling	Min.~Rated~Max.	kW	4.00 ~ 10.0 ~ 11.0	4.00 ~ 10.0 ~ 11.0
		Min.~Rated~Max.	Btu/h	13,600 ~ 34,100 ~ 37,500	13,600 ~ 34,100 ~ 37,500
	Heating	Min.~Rated~Max.	kW	4.40 ~ 11.0 ~ 12.1	4.50 ~ 11.2 ~ 12.3
		Min.~Rated~Max.	Btu/h	15,000 ~ 37,500 ~ 41,300	15,400 ~ 38,200 ~ 42,000
Power Input	Cooling	Rated	kW	2.82	3.12
	Heating	Rated	kW	3.09	3.19
Running Current	Cooling	Rated	A	4.10	4.70
	Heating	Rated	A	4.40	4.90
SEER / SCOP			Wh / Wh	5.41 / 3.81	5.11 / 3.81
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A / A	A / A
Annual Energy Consumption		Cooling / Heating	kWh	648 / 2,800	685 / 2,866

Combination	Outdoor unit			AUUW368D2 [UU37W UO2]	AUUW368D2 [UU37W UO2]
	Indoor unit			UVNH36GKLA2 [UV36 NK2]	AJNW36GVLA1 [UJ36 NV3]
Capacity	Cooling	Min.~Rated~Max.	kW	3.80 ~ 9.50 ~ 10.5	4.00 ~ 9.50 ~ 10.50
		Min.~Rated~Max.	Btu/h	13,000 ~ 32,400 ~ 35,800	13,600 ~ 32,400 ~ 35,800
	Heating	Min.~Rated~Max.	kW	4.20 ~ 10.5 ~ 11.6	4.40 ~ 10.50 ~ 11.50
		Min.~Rated~Max.	Btu/h	14,300 ~ 35,800 ~ 39,600	15,000 ~ 35,800 ~ 39,200
Power Input	Cooling	Rated	kW	2.78	2.79
	Heating	Rated	kW	3.08	3.27
Running Current	Cooling	Rated	A	4.00	7.00
	Heating	Rated	A	4.40	7.70
SEER / SCOP			Wh / Wh	5.11 / 3.81	5.41 / 3.81
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A / A	A / A
Annual Energy Consumption		Cooling / Heating	kWh	652 / 2,800	615 / 2,505

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- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Combination	Outdoor unit			AUW428D2 [UU43W U32]	AUW428D2 [UU43W U32]
	Indoor unit			ATNH42GMLE2 [UT42 NM2]	ABNW42GM2A0 [UM42 N24]
Capacity	Cooling	Min.~Rated~Max.	kW	5.00 ~ 12.5 ~ 13.8	5.00 ~ 12.1 ~ 13.2
		Min.~Rated~Max.	Btu/h	17,100 ~ 42,700 ~ 47,100	17,100 ~ 41,300 ~ 45,000
	Heating	Min.~Rated~Max.	kW	5.00 ~ 14.0 ~ 15.4	5.60 ~ 14.0 ~ 15.0
		Min.~Rated~Max.	Btu/h	17,100 ~ 47,800 ~ 52,600	19,100 ~ 47,800 ~ 51,200
Power Input	Cooling	Rated	kW	3.89	3.76
	Heating	Rated	kW	3.88	3.86
Running Current	Cooling	Rated	A	5.60	5.40
	Heating	Rated	A	5.60	5.60
SEER / SCOP			Wh / Wh	-	-
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	-	-
Annual Energy Consumption		Cooling / Heating	kWh	-	-

Combination	Outdoor unit			AUW428D2 [UU43W U32]
	Indoor unit			UVNH42GLLA2 [UV42 NL2]
Capacity	Cooling	Min.~Rated~Max.	kW	5.00 ~ 12.5 ~ 13.8
		Min.~Rated~Max.	Btu/h	17,100 ~ 42,700 ~ 47,100
	Heating	Min.~Rated~Max.	kW	5.60 ~ 13.6 ~ 15.4
		Min.~Rated~Max.	Btu/h	19,100 ~ 46,400 ~ 52,600
Power Input	Cooling	Rated	kW	3.89
	Heating	Rated	kW	3.68
Running Current	Cooling	Rated	A	5.60
	Heating	Rated	A	5.30
SEER / SCOP			Wh / Wh	-
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	-
Annual Energy Consumption		Cooling / Heating	kWh	-

### Note

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- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than  $\pm 1\%$  according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Combination	Outdoor unit			AUUW488D2 [UU49W U32]	AUUW488D2 [UU49W U32]
	Indoor unit			ATNH48GMLE2 [UT48 NM2]	ABNW48GM3A0 [UM48 N34]
Capacity	Cooling	Min.~Rated~Max.	kW	5.48 ~ 13.9 ~ 15.7	5.60 ~ 14.0 ~ 15.4
		Min.~Rated~Max.	Btu/h	18,700 ~ 47,400 ~ 53,600	19,100 ~ 47,800 ~ 52,600
	Heating	Min.~Rated~Max.	kW	6.40 ~ 15.3 ~ 17.6	6.60 ~ 15.8 ~ 18.2
		Min.~Rated~Max.	Btu/h	21,800 ~ 52,200 ~ 60,100	22,500 ~ 53,900 ~ 62,100
Power Input	Cooling	Rated	kW	4.62	4.10
	Heating	Rated	kW	4.49	4.39
Running Current	Cooling	Rated	A	6.70	6.00
	Heating	Rated	A	6.50	6.50
SEER / SCOP			Wh / Wh	-	- / -
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	-	- / -
Annual Energy Consumption		Cooling / Heating	kWh	-	- / -

Combination	Outdoor unit			AUUW488D2 [UU49W U32]	AUUW488D2 [UU49W U32]
	Indoor unit			UVNH48GLLA2 [UV48 NL2]	APNH48GTLA0 [UP48 NT2]
Capacity	Cooling	Min.~Rated~Max.	kW	5.32 ~ 13.3 ~ 14.6	6.00 ~ 13.4 ~ 15.2
		Min.~Rated~Max.	Btu/h	18,200 ~ 45,400 ~ 49,800	20,500 ~ 45,700 ~ 51,900
	Heating	Min.~Rated~Max.	kW	6.40 ~ 15.3 ~ 17.6	6.00 ~ 15.5 ~ 17.1
		Min.~Rated~Max.	Btu/h	21,800 ~ 52,200 ~ 60,100	20,500 ~ 52,900 ~ 58,300
Power Input	Cooling	Rated	kW	4.28	4.20
	Heating	Rated	kW	4.49	4.50
Running Current	Cooling	Rated	A	6.20	5.76
	Heating	Rated	A	6.50	6.20
SEER / SCOP			Wh / Wh	-	-
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	-	-
Annual Energy Consumption		Cooling / Heating	kWh	-	-

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- Power factor could vary less than  $\pm 1\%$  according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Combination	Outdoor unit			AUUW608D2 [UU61W U32]	AUUW608D2 [UU61W U32]
	Indoor unit			ATNH60GMLE2 [UT60 NM2]	ABNW60GM3A0 [UM60 N34]
Capacity	Cooling	Min.~Rated~Max.	kW	5.92 ~ 14.6 ~ 16.3	5.90 ~ 15.0 ~ 16.3
		Min.~Rated~Max.	Btu/h	20,200 ~ 49,800 ~ 55,600	20,100 ~ 51,200 ~ 55,600
	Heating	Min.~Rated~Max.	kW	6.80 ~ 16.9 ~ 18.7	6.80 ~ 16.8 ~ 18.7
		Min.~Rated~Max.	Btu/h	23,200 ~ 57,700 ~ 63,800	23,200 ~ 57,300 ~ 63,800
Power Input	Cooling	Rated	kW	5.40	4.53
	Heating	Rated	kW	5.50	4.79
Running Current	Cooling	Rated	A	7.8	6.60
	Heating	Rated	A	8.0	7.10
SEER / SCOP			Wh / Wh	-	- / -
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	-	- / -
Annual Energy Consumption		Cooling / Heating	kWh	-	- / -

Combination	Outdoor unit			AUUW608D2 [UU61W U32]
	Indoor unit			UVNH60GLLA2 [UV60 NL2]
Capacity	Cooling	Min.~Rated~Max.	kW	5.72 ~ 14.4 ~ 15.7
		Min.~Rated~Max.	Btu/h	19,500 ~ 49,100 ~ 53,600
	Heating	Min.~Rated~Max.	kW	6.80 ~ 16.8 ~ 18.7
		Min.~Rated~Max.	Btu/h	23,200 ~ 57,300 ~ 63,800
Power Input	Cooling	Rated	kW	5.24
	Heating	Rated	kW	5.42
Running Current	Cooling	Rated	A	7.6
	Heating	Rated	A	7.9
SEER / SCOP			Wh / Wh	-
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	-
Annual Energy Consumption		Cooling / Heating	kWh	-

Combination	Outdoor unit			AUUW70LAE [UU70W U34]	AUUW85LAE [UU85W U74]
	Indoor unit			ABNW70GB9A0 [UB70 N94]	ABNW85GB9A0 [UB85 N94]
Capacity	Cooling	Min.~Rated~Max.	kW	7.6 ~ 19.0 ~ 20.9	9.2 ~ 23.0 ~ 25.3
		Min.~Rated~Max.	Btu/h	25,930~64,830 ~71,310	31,400 ~ 78,480 ~ 86,330
	Heating	Min.~Rated~Max.	kW	9.0 ~ 22.4 ~ 24.6	10.8 ~ 27.0 ~ 29.7
		Min.~Rated~Max.	Btu/h	30,700 ~ 76,430 ~83,930	36,850 ~ 92,130 ~ 101,350
Power Input	Cooling	Rated	kW	6.69	8.19
	Heating	Rated	kW	6.4	8.31
Running Current	Cooling	Rated	A	11.5	13.5
	Heating	Rated	A	10.7	13.6
SEER / SCOP			Wh / Wh	- / -	- / -
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	- / -	- / -
Annual Energy Consumption		Cooling / Heating	kWh	-	-

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- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

### Outdoor Unit Specifications

#### 1 Phase Inverter

Outdoor unit				AUUW09GA0 [UU09W UL0]	AUUW12GA0 [UU12W UL0]
Power Supply		V, Ø, Hz		220-240, 1, 50	220-240, 1, 50
Wiring Connections	Power Supply Cable (included Earth)		No. × mm <sup>2</sup> (AWG)	3C × 2.5 (12)	3C × 2.5 (12)
Casing Color		-		Warm Gray	Warm Gray
Dimensions		W × H × D	mm	770 × 545 × 288	770 × 545 × 288
Net Weight		kg (lbs)		33.8 (74.5)	33.8 (74.5)
Compressor	Type		-	Twin Rotary	Twin Rotary
	Model		Model × No.	GAT156MAD × 1	GAT156MAD × 1
	Motor type		-	BLDC	BLDC
	Motor Output		W × No.	1,500 × 1	1,500 × 1
Refrigerant	Type		-	R410A	R410A
	Precharged Amount		g (oz)	1,100 (38.8)	1,100 (38.8)
	t-CO <sub>2</sub> eq.			2.296	2.296
	GWP			2,087.5	2,087.5
	Chargeless-Pipe Length		m (ft)	7.5 (24.6)	7.5 (24.6)
	Additional Charging Volume		g/m (oz/ft)	20 (0.22)	20 (0.22)
Control		Electronic Expansion Valve			
Refrigerant Oil	Type		-	RB68A	RB68A
	Charged volume		cc × No.	400 × 1	400 × 1
Heat Exchanger		(Row × Column × Fins per inch) × No.		(2 × 24 × 14) × 1	(2 × 24 × 14) × 1
Fan	Type		-	Axial	Axial
	Air Flow Rate		m <sup>3</sup> /min × No.	28 × 1	28 × 1
Fan Motor	Type			BLDC	BLDC
	Output		W × No.	43.0 × 1	43.0 × 1
Sound Pressure Level	Cooling	Rated	dB(A)	47	49
	Heating	Rated	dB(A)	50	52
Sound Power Level	Cooling	Max.	dB(A)	65	65
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 6.35 (1/4)	Ø 6.35 (1/4)
	Gas	Outer Dia.	mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
Piping Length		Max.	m (ft)	20 (65.6)	20 (65.6)
Maximum Height Difference	Outdoor Unit ~ Indoor Unit	Max.	m (ft)	15 (49.2)	15 (49.2)
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-15 (5.0) ~ 48 (118.4)	-15 (5.0) ~ 48 (118.4)
	Heating	Min. ~ Max.	°C WB (°F WB)	-18 (-0.4) ~ 18 (64.4)	-18 (-0.4) ~ 18 (64.4)

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- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.



## 2. Specifications

Outdoor unit				AUUW18GAE [UU18W UE4]	AUUW24GAE [UU24W U44]
Power Supply		V, Ø, Hz		220-240 / 1 / 50	220-240 / 1 / 50
Wiring Connections	Power Supply Cable (included Earth)	No. × mm <sup>2</sup> (AWG)		3C × 2.5 (12)	3C × 2.5 (12)
Casing Color		-		Warm Gray	Warm Gray
Dimensions		W × H × D	mm	870 × 655 × 320	950 × 834 × 330
Net Weight		kg (lbs)		46.0 (98.3)	56.1 (123.6)
Compressor	Type	-		Twin Rotary	Twin Rotary
	Model	Model × No.		GKT176MAC × 1	GKT208MAB × 1
	Motor type	-		BLDC	BLDC
	Motor Output	W × No.		1,500 × 1	1,500 × 1
Refrigerant	Type	-		R410A	R410A
	Precharged Amount	g (oz)		1,300 (49.4)	2,000 (70.5)
	t-CO <sub>2</sub> eq.			2.714	4.175
	GWP			2,087.5	2,087.5
	Chargeless-Pipe Length	m (ft)		7.5 (24.6)	7.5 (24.6)
	Additional Charging Volume	g/m (oz/ft)		20 (0.22)	40 (0.43)
	Control	-		Electronic Expansion Valve	
Refrigerant Oil	Type	-		FVC68D	FVC68D
	Charged volume	cc × No.		670 × 1	670 × 1
Heat Exchanger	(Row × Column × Fins per inch) × No.			(2 × 28 × 14) × 1	(2 × 38 × 14) × 1
Fan	Type	-		Axial	Axial
	Air Flow Rate	m <sup>3</sup> /min × No.		50 × 1	58 × 1
Fan Motor	Type			BLDC	BLDC
	Output	W × No.		85.4 × 1	124 × 1
Sound Pressure Level	Cooling	Rated	dB(A)	47	48
	Heating	Rated	dB(A)	52	52
Sound Power Level	Cooling	Max.	dB(A)	63	67
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 6.35 (1/4)	Ø 9.52(3/8)
	Gas	Outer Dia.	mm(inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
Piping Length	Max.		m (ft)	30 (98.4)	50 (164.0)
Maximum Height Difference	Outdoor Unit ~ Indoor Unit	Max.	m (ft)	30 (98.4)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-15 (5.0) ~ 48 (118.4)	-15 (5.0) ~ 48 (118.4)
	Heating	Min. ~ Max.	°C WB (°F WB)	-18 (-0.4) ~ 18 (64.4)	-18 (-0.4) ~ 18 (64.4)

### Note

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- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Outdoor unit				AUW30GAE [U30W U44]	AUW366D2 [U36W UO2]
Power Supply		V, Ø, Hz		220-240, 1, 50	220-240, 1, 50
Wiring Connections	Power Supply Cable (included Earth)	No. × mm <sup>2</sup> (AWG)		3C × 2.5 (12)	3C × 5.0 (8)
Casing Color		-		Warm Gray	Warm Gray
Dimensions		W × H × D	mm	950 × 834 × 330	950 × 1,170 × 330
Net Weight		kg (lbs)		58.0 (127.8)	81.0 (178.6)
Compressor	Type	-		Twin Rotary	Twin Rotary
	Model	Model × No.		GJT240MAA × 1	GPT442MBA × 1
	Motor type	-		BLDC	BLDC
	Motor Output	W × No.		2,137 × 1	4,000 × 1
Refrigerant	Type	-		R410A	R410A
	Precharged Amount	g (oz)		2,000 (70.5)	2,800 (98.8)
	t-CO <sub>2</sub> eq.			4.175	5.845
	GWP			2,087.5	2,087.5
	Chargeless-Pipe Length	m (ft)		7.5 (24.6)	7.5 (24.6)
	Additional Charging Volume	g/m (oz/ft)		40 (0.43)	40 (0.43)
Refrigerant Oil	Control	-		Electronic Expansion Valve	
	Type	-		FVC68D	FVC68D
Heat Exchanger	Charged volume	cc × No.		900 × 1	1,300 × 1
	(Row × Column × Fins per inch) × No.			(2 × 38 × 14) × 1	(2 × 32 × 14) × 1 + (2 × 22 × 14) × 1
Fan	Type	-		Axial	Propeller
	Air Flow Rate	m <sup>3</sup> /min × No.		58 × 1	45 × 2
Fan Motor	Type			BLDC	BLDC
	Output	W × No.		124 × 1	85.4 × 2
Sound Pressure Level	Cooling	Rated	dB(A)	48	53
	Heating	Rated	dB(A)	52	54
Sound Power Level	Cooling	Max.	dB(A)	68	66
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 9.52(3/8)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm(inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
Piping Length	Max.		m (ft)	50 (164.0)	50 (164.0)
Maximum Height Difference	Outdoor Unit ~ Indoor Unit	Max.	m (ft)	30 (98.4)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-15 (5.0) ~ 48 (118.4)	-15 (5.0) ~ 48 (118.4)
	Heating	Min. ~ Max.	°C WB (°F WB)	-18 (-0.4) ~ 18 (64.4)	-18 (-0.4) ~ 18 (64.4)

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- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Outdoor unit				AUUW426D2 [UU42W U32]	AUUW486D2 [UU48W U32]
Power Supply		V, Ø, Hz		220-240, 1, 50	220-240, 1, 50
Wiring Connections	Power Supply Cable (included Earth)	No. × mm <sup>2</sup> (AWG)		3C × 5.0 (8)	3C × 5.0 (8)
Casing Color		-		Warm Gray	Warm Gray
Dimensions		W × H × D	mm	950 × 1,380 × 330	950 × 1,380 × 330
Net Weight		kg (lbs)		92.0 (202.8)	92.0 (202.8)
Compressor	Type	-		Twin Rotary	Twin Rotary
	Model	Model × No.		GPT442MBA × 1	GPT442MBA × 1
	Motor type	-		BLDC	BLDC
	Motor Output	W × No.		4,000 × 1	4,000 × 1
Refrigerant	Type	-		R410A	R410A
	Precharged Amount	g (oz)		3,400 (119.9)	3,400 (119.9)
	t-CO <sub>2</sub> eq.			7.098	7.098
	GWP			2,087.5	2,087.5
	Chargeless-Pipe Length	m (ft)		7.5 (24.6)	7.5 (24.6)
	Additional Charging Volume	g/m (oz/ft)		40 (0.43)	40 (0.43)
	Control	-		Electronic Expansion Valve	
Refrigerant Oil	Type	-		FVC68D	FVC68D
	Charged volume	cc × No.		1,300 × 1	1,300 × 1
Heat Exchanger	(Row × Column × Fins per inch) × No.			(2 × 32 × 14) × 2	(2 × 32 × 14) × 2
Fan	Type	-		Propeller	Propeller
	Air Flow Rate	m <sup>3</sup> /min × No.		55 × 2	55 × 2
Fan Motor	Type			BLDC	BLDC
	Output	W × No.		124 × 2	124 × 2
Sound Pressure Level	Cooling	Rated	dB(A)	52	52
	Heating	Rated	dB(A)	54	54
Sound Power Level	Cooling	Max.	dB(A)	67	68
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm(inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
Piping Length	Max.		m (ft)	75 (246.1)	75 (246.1)
Maximum Height Difference	Outdoor Unit ~ Indoor Unit	Max.	m (ft)	30 (98.4)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-15 (5.0) ~ 48 (118.4)	-15 (5.0) ~ 48 (118.4)
	Heating	Min. ~ Max.	°C WB (°F WB)	-18 (-0.4) ~ 18 (64.4)	-18 (-0.4) ~ 18 (64.4)

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- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Outdoor unit				AUUW606D2 [UU60W U32]
Power Supply		V, Ø, Hz		220-240, 1, 50
Wiring Connections	Power Supply Cable (included Earth)		No. × mm <sup>2</sup> (AWG)	3C × 5.0 (8)
Casing Color		-		Warm Gray
Dimensions		W × H × D	mm	950 × 1,380 × 330
Net Weight		kg (lbs)		92.0 (202.8)
Compressor	Type		-	Twin Rotary
	Model		Model × No.	GPT442MBA × 1
	Motor type		-	BLDC
	Motor Output		W × No.	4,000 × 1
Refrigerant	Type		-	R410A
	Precharged Amount		g (oz)	3,400 (119.9)
	t-CO <sub>2</sub> eq.			7.098
	GWP			2,087.5
	Chargeless-Pipe Length		m (ft)	7.5 (24.6)
	Additional Charging Volume		g/m (oz/ft)	40 (0.43)
Refrigerant Oil	Control		-	Electronic Expansion Valve
	Type		-	FVC68D
Heat Exchanger	Charged volume		cc × No.	1,300 × 1
	(Row × Column × Fins per inch) × No.			(2 × 32 × 14) × 2
Fan	Type		-	Propeller
	Air Flow Rate		m <sup>3</sup> /min × No.	55 × 2
Fan Motor	Type			BLDC
	Output		W × No.	124 × 2
Sound Pressure Level	Cooling	Rated	dB(A)	52
	Heating	Rated	dB(A)	54
Sound Power Level	Cooling	Max.	dB(A)	71
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm(inch)	Ø 15.88 (5/8)
Piping Length		Max.	m (ft)	75 (246.1)
Maximum Height Difference	Outdoor Unit ~ Indoor Unit	Max.	m (ft)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-15 (5.0) ~ 48 (118.4)
	Heating	Min. ~ Max.	°C WB (°F WB)	-18 (-0.4) ~ 18 (64.4)

### 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 codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

### ◆ 3 Phase Inverter

Outdoor unit				AUUW368D2 [UU37W UO2]	AUUW428D2 [UU43W U32]
Power Supply		V , Ø , Hz		380-415, 3, 50	380-415, 3, 50
Wiring Connections	Power Supply Cable (included Earth)	No. × mm <sup>2</sup> (AWG)		5C × 2.5 (12)	5C × 2.5 (12)
Casing Color		-		Warm Gray	Warm Gray
Dimensions		W × H × D	mm	950 × 1,170 × 330	950 × 1,380 × 330
Net Weight		kg (lbs)		85.0 (187.4)	96.0 (211.6)
Compressor	Type	-		Twin Rotary	Twin Rotary
	Model	Model × No.		GPT442MAA × 1	GPT442MAA × 1
	Motor type	-		BLDC	BLDC
	Motor Output	W × No.		4,000 × 1	4,000 × 1
Refrigerant	Type	-		R410A	R410A
	Precharged Amount	g (oz)		2,800 (98.8)	3,400 (119.9)
	t-CO <sub>2</sub> eq.			5.845	7.098
	GWP			2,087.5	2,087.5
	Chargeless-Pipe Length	m (ft)		7.5 (24.6)	7.5 (24.6)
	Additional Charging Volume	g/m (oz/ft)		40 (0.43)	40 (0.43)
Control		-		Electronic Expansion Valve	
Refrigerant Oil	Type	-		FVC68D	FVC68D
	Charged volume	cc × No.		1,300 × 1	1,300 × 1
Heat Exchanger	(Row × Column × Fins per inch) × No.			(2 × 32 × 14) × 1 + (2 × 22 × 14) × 1	(2 × 32 × 14) × 2
Fan	Type	-		Propeller	Propeller
	Air Flow Rate	m <sup>3</sup> /min × No.		45 × 2	55 × 2
Fan Motor	Type			BLDC	BLDC
	Output	W × No.		85.4 × 2	124 × 2
Sound Pressure Level	Cooling	Rated	dB(A)	53	52
	Heating	Rated	dB(A)	54	54
Sound Power Level	Cooling	Max.	dB(A)	66	67
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm(inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
Piping Length	Max.		m (ft)	50 (164.0)	75 (246.1)
Maximum Height Difference	Outdoor Unit ~ Indoor Unit	Max.	m (ft)	30 (98.4)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-15 (5.0) ~ 48 (118.4)	-15 (5.0) ~ 48 (118.4)
	Heating	Min. ~ Max.	°C WB (°F WB)	-18 (-0.4) ~ 18 (64.4)	-18 (-0.4) ~ 18 (64.4)

#### 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 codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Outdoor unit				AUUW488D2 [UU49W U32]	AUUW608D2 [UU61W U32]
Power Supply		V, Ø, Hz		380-415, 3, 50	380-415, 3, 50
Wiring Connections	Power Supply Cable (included Earth)	No. × mm <sup>2</sup> (AWG)		5C × 2.5 (12)	5C × 2.5 (12)
Casing Color		-		Warm Gray	Warm Gray
Dimensions		W × H × D	mm	950 × 1,380 × 330	950 × 1,380 × 330
Net Weight		kg (lbs)		96.0 (211.6)	96.0 (211.6)
Compressor	Type	-		Twin Rotary	Twin Rotary
	Model	Model × No.		GPT442MAA × 1	GPT442MAA × 1
	Motor type	-		BLDC	BLDC
	Motor Output	W × No.		4,000 × 1	4,000 × 1
Refrigerant	Type	-		R410A	R410A
	Precharged Amount	g (oz)		3,400 (119.9)	3,400 (119.9)
	t-CO <sub>2</sub> eq.			7.098	7.098
	GWP			2,087.5	2,087.5
	Chargeless-Pipe Length	m (ft)		7.5 (24.6)	7.5 (24.6)
	Additional Charging Volume	g/m (oz/ft)		40 (0.43)	40 (0.43)
	Control	-		Electronic Expansion Valve	
Refrigerant Oil	Type	-		FVC68D	FVC68D
	Charged volume	cc × No.		1,300 × 1	1,300 × 1
Heat Exchanger	(Row × Column × Fins per inch) × No.			(2 × 32 × 14) × 2	(2 × 32 × 14) × 2
Fan	Type	-		Propeller	Propeller
	Air Flow Rate	m <sup>3</sup> /min × No.		55 × 2	55 × 2
Fan Motor	Type			BLDC	BLDC
	Output	W × No.		124 × 2	124 × 2
Sound Pressure Level	Cooling	Rated	dB(A)	52	52
	Heating	Rated	dB(A)	54	54
Sound Power Level	Cooling	Max.	dB(A)	68	71
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm(inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
Piping Length	Max.		m (ft)	75 (246.1)	75 (246.1)
Maximum Height Difference	Outdoor Unit ~ Indoor Unit	Max.	m (ft)	30 (98.4)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-15 (5.0) ~ 48 (118.4)	-15 (5.0) ~ 48 (118.4)
	Heating	Min. ~ Max.	°C WB (°F WB)	-18 (-0.4) ~ 18 (64.4)	-18 (-0.4) ~ 18 (64.4)

### 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 codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

Outdoor unit				AUUW70LAE [UU70W U34]	AUUW85LAE [UU85W U74]
Power Supply		V, Ø, Hz		380-415, 3, 50	380-415, 3, 50
Wiring Connections	Power Supply Cable (included Earth)	No. × mm <sup>2</sup> (AWG)		5C × 2.5 (12)	5C × 2.5 (12)
Casing Color		-		Warm Gray	Warm Gray
Dimensions		W × H × D	mm	950 × 1,380 × 330	1,090 × 1,625 × 380
Net Weight		kg (lbs)		110.0 (242.0)	139.0 (306.0)
Compressor	Type	-		Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Model	Model × No.		JBA048MAF × 1	JBA068MAF × 1
	Motor type	-		BLDC	BLDC
	Motor Output	W × No.		4,200 × 1	6,800 × 1
Refrigerant	Type	-		R410A	R410A
	Precharged Amount	g (oz)		5,200 (183.4)	5,500 (194.0)
	t-CO <sub>2</sub> eq.			10.855	11.481
	GWP			2,087.5	2,087.5
	Chargeless-Pipe Length	m (ft)		25 (82.0)	15 (49.2)
	Additional Charging Volume	g/m (oz/ft)		70 (0.75)	70 (0.75)
Refrigerant Oil	Control	-		Electronic Expansion Valve	
	Type	-		FVC68D	FVC68D
Heat Exchanger	Charged volume	cc × No.		1,200 × 1	1,400 × 1
	(Row × Column × Fins per inch) × No.			(2 × 38 × 14) × 2 + (1 × 38 × 14) × 1	(2 × 38 × 14) × 2
Fan	Type	-		Axial Flow Fan	Axial Flow Fan
	Air Flow Rate	m <sup>3</sup> /min × No.		55 × 2	58 × 2
Fan Motor	Type			BLDC	BLDC
	Output	W × No.		124.0 × 2	250.0 × 2
Sound Pressure Level	Cooling	Rated	dB(A)	55	59
	Heating	Rated	dB(A)	58	60
Sound Power Level	Cooling	Max.	dB(A)	73	74
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 9.52 (3/8)	Ø 12.7 (1/2)
	Gas	Outer Dia.	mm(inch)	Ø 25.4 (1/1)	Ø 22.2 (7/8)
Piping Length	Max.		m (ft)	75 (246.0)	75 (246.0)
Maximum Height Difference	Outdoor Unit ~ Indoor Unit	Max.	m (ft)	30 (98.4)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-20 (-4) ~ 48 (118.4)	-20 (-4) ~ 48 (118.4)
	Heating	Min. ~ Max.	°C WB (°F WB)	-18 (-0.4) ~ 18 (64.4)	-18 (-0.4) ~ 18 (64.4)

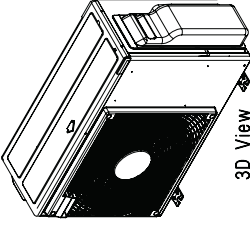
### Note

- Due to our policy of innovation some specifications may be changed without notification.
- Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

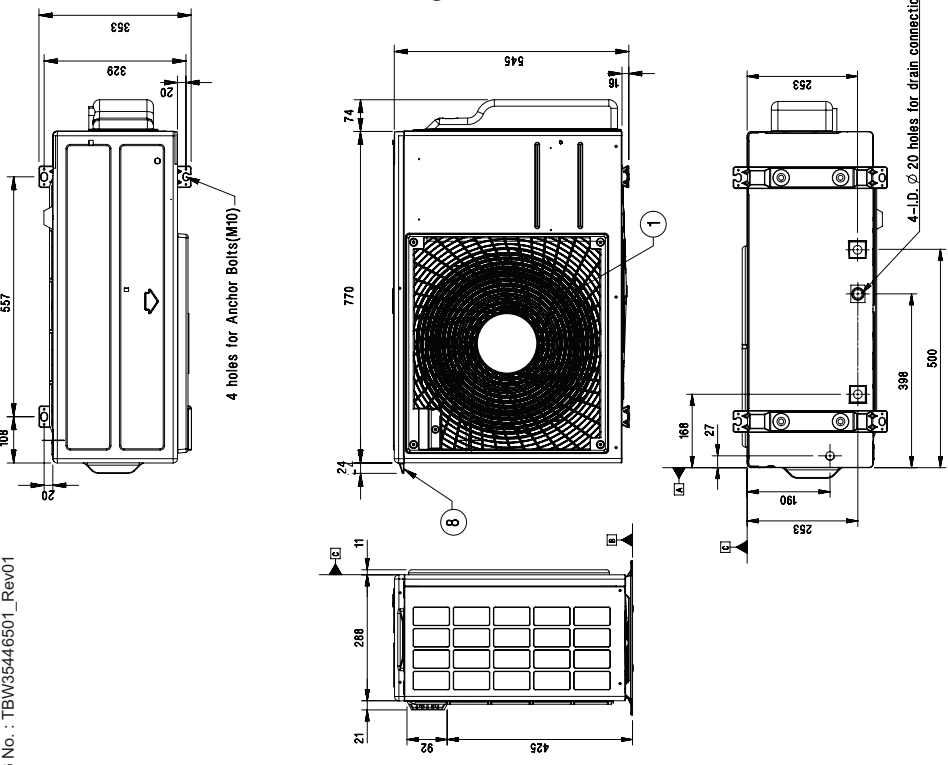
# 3. Dimensions

## AUW09GA0 [UU09W UL0] / AUW12GA0 [UU12W UL0]

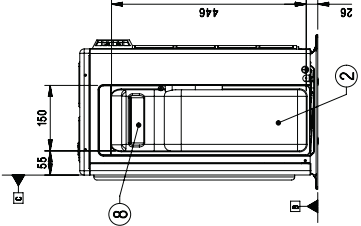
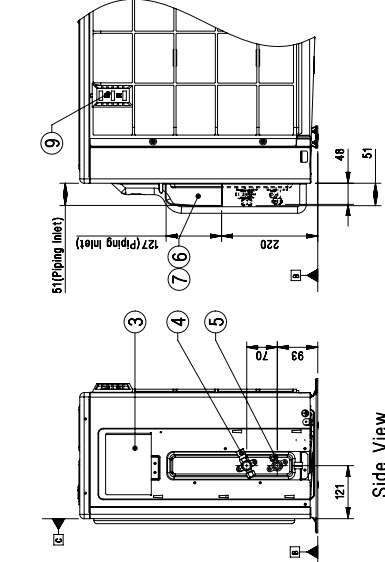
**[Unit: mm]**  
 Chassis code : UL2  
 DWG No. : TBW35446501\_Rev01



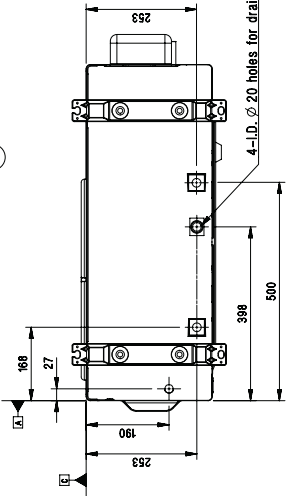
3D View



4 holes for Anchor Bolts(M10)

Side View  
(removed valve cover)



4 -I.D. ∅20 holes for drain connection

**Symbols**

- Datum line
- Refrigerant/Drain Piping Direction

**Note**

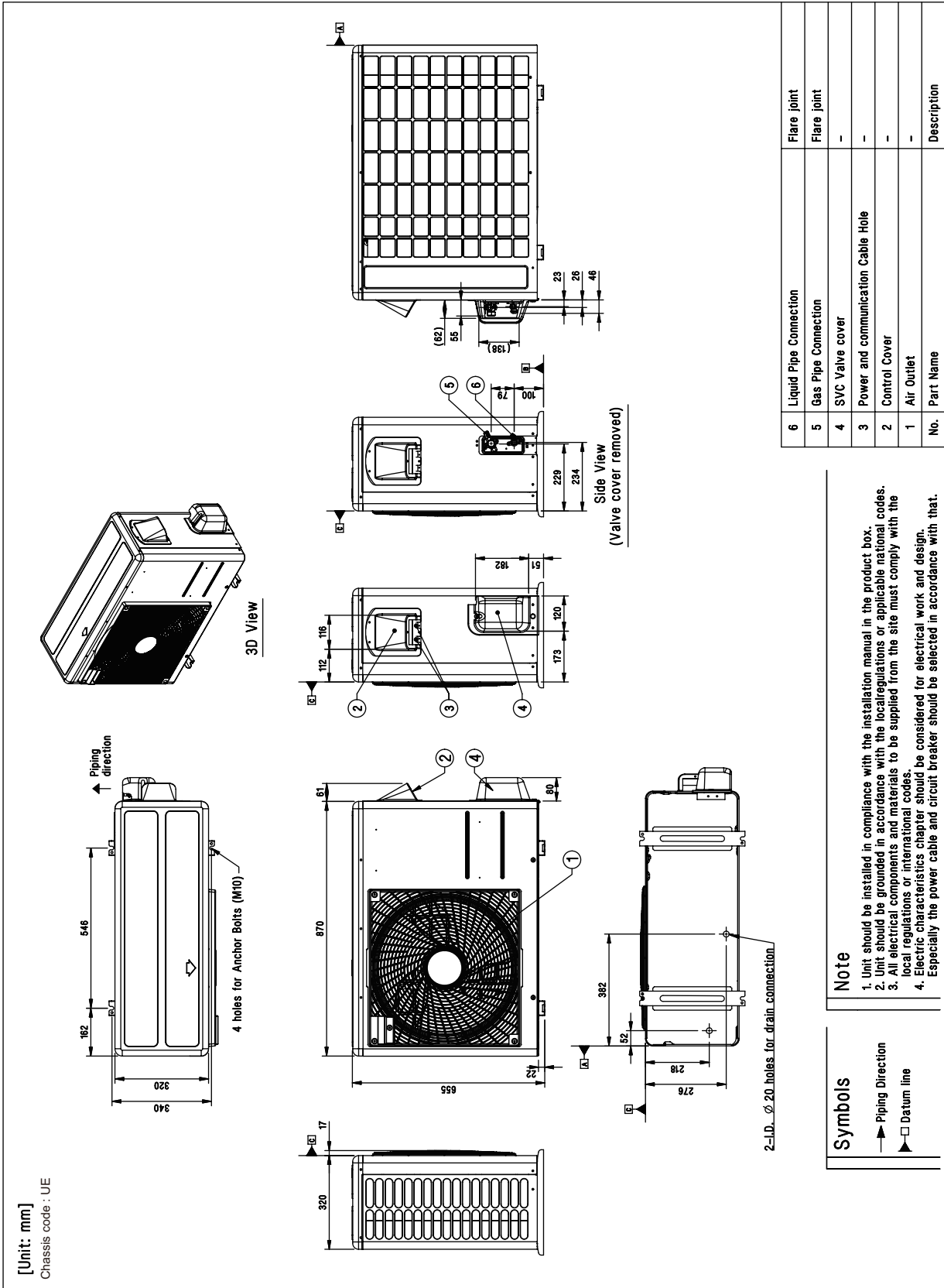
1. Unit should be installed in compliance with the installation manual in the product box.
2. Unit should be grounded in accordance with the local regulations or applicable national codes.
3. All electrical components and materials to be supplied from the site must comply with the local regulations or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

No.	Part Name	Description
9	Intake air temperature sensor cover	-
8	Handle	-
7	Refrigerant pipe routing hole	-
6	Power and Communication cable routing hole	-
5	Liquid Pipe connection	-
4	Gas Pipe connection	-
3	Power and communication cable connection	-
2	Control cover & SVC valve cover	-
1	Air Outlet	-



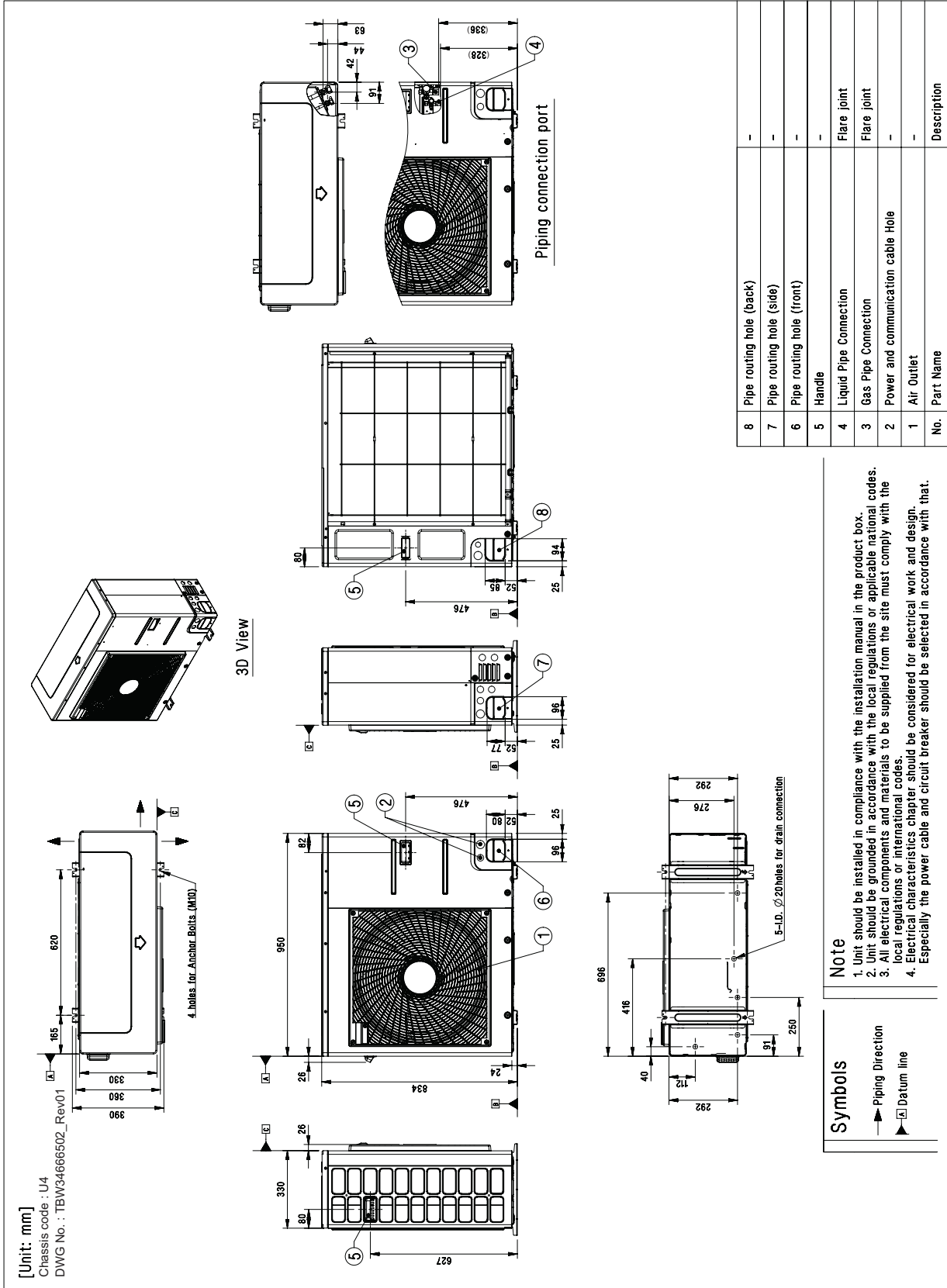
# 3. Dimensions

## AUW18GAE [UU18W UE4]



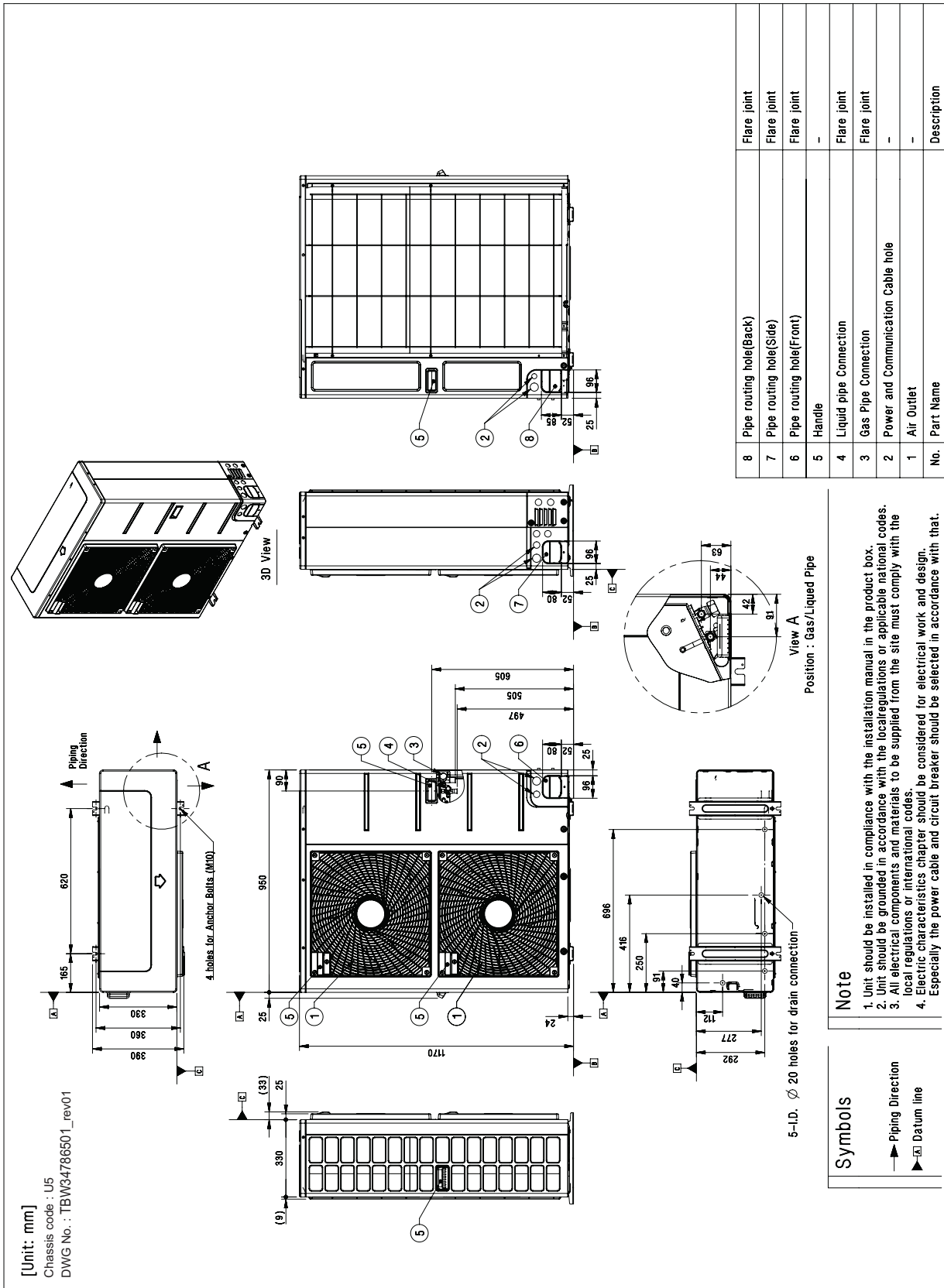
# 3. Dimensions

## AUW24GAE [UU24W U44] / AUW30GAE [UU30W U44]



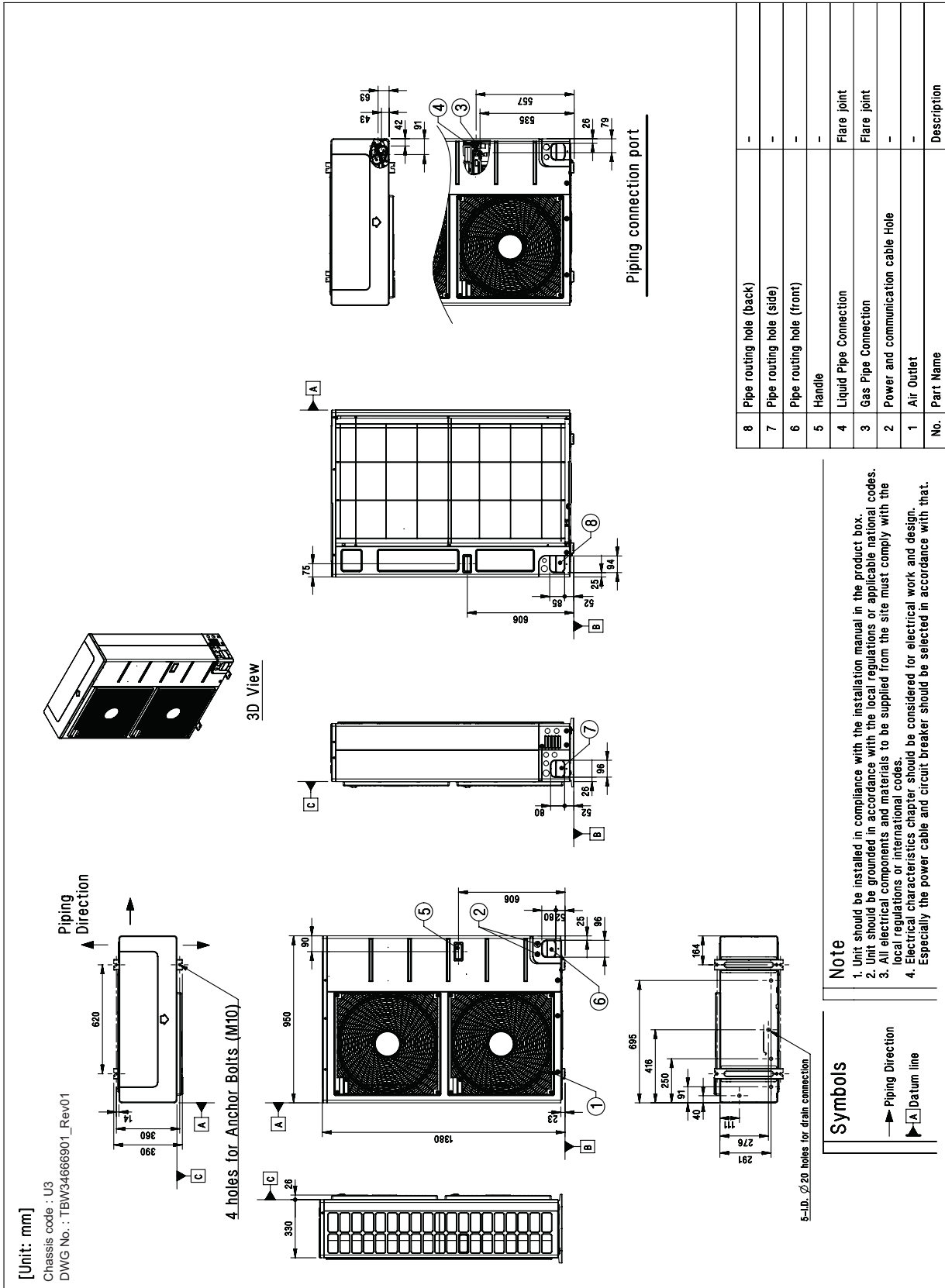
### 3. Dimensions

#### AUW366D2 [UU36W UO2] / AUW368D2 [UU37W UO2]



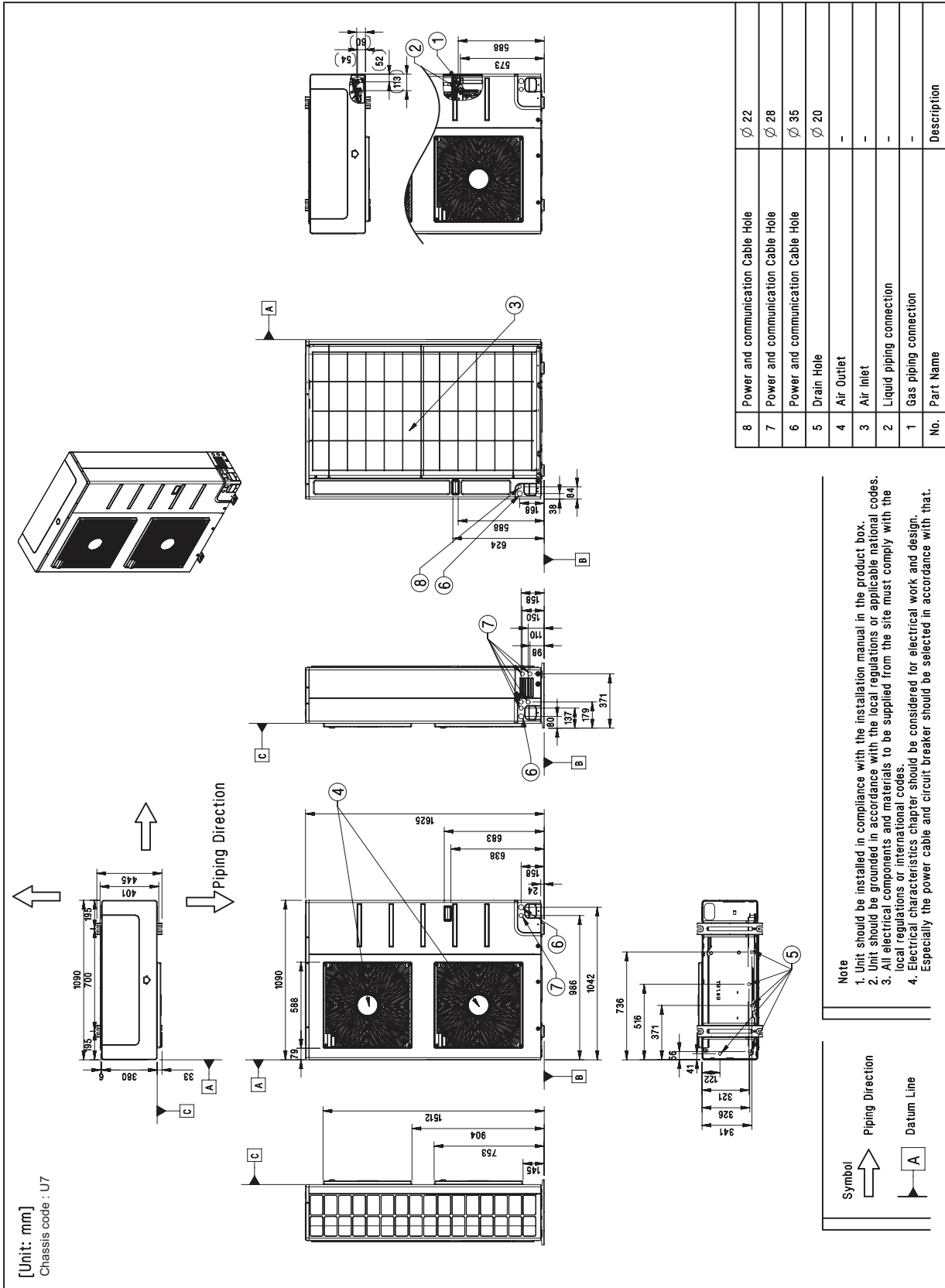
### 3. Dimensions

AUW426D2 [UU42W U32] / AUW486D2 [UU48W U32] / AUW606D2 [UU60W U32]  
 AUW428D2 [UU43W U32] / AUW488D2 [UU49W U32] / AUW608D2 [UU61W U32]  
 AUW70LAE [UU70W U34]



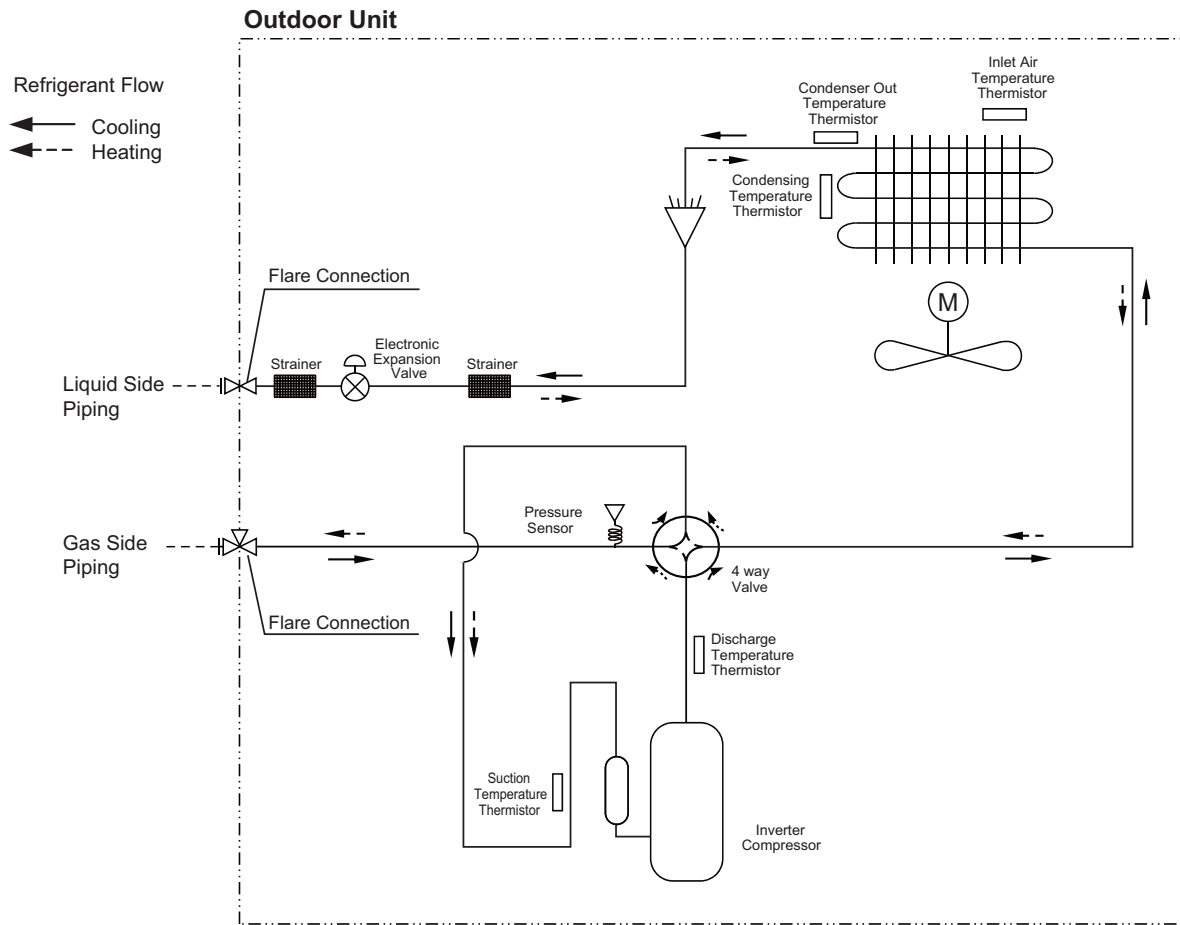
# 3. Dimensions

## AUUW85LAE [UU85W U74]



# 4. Piping Diagrams

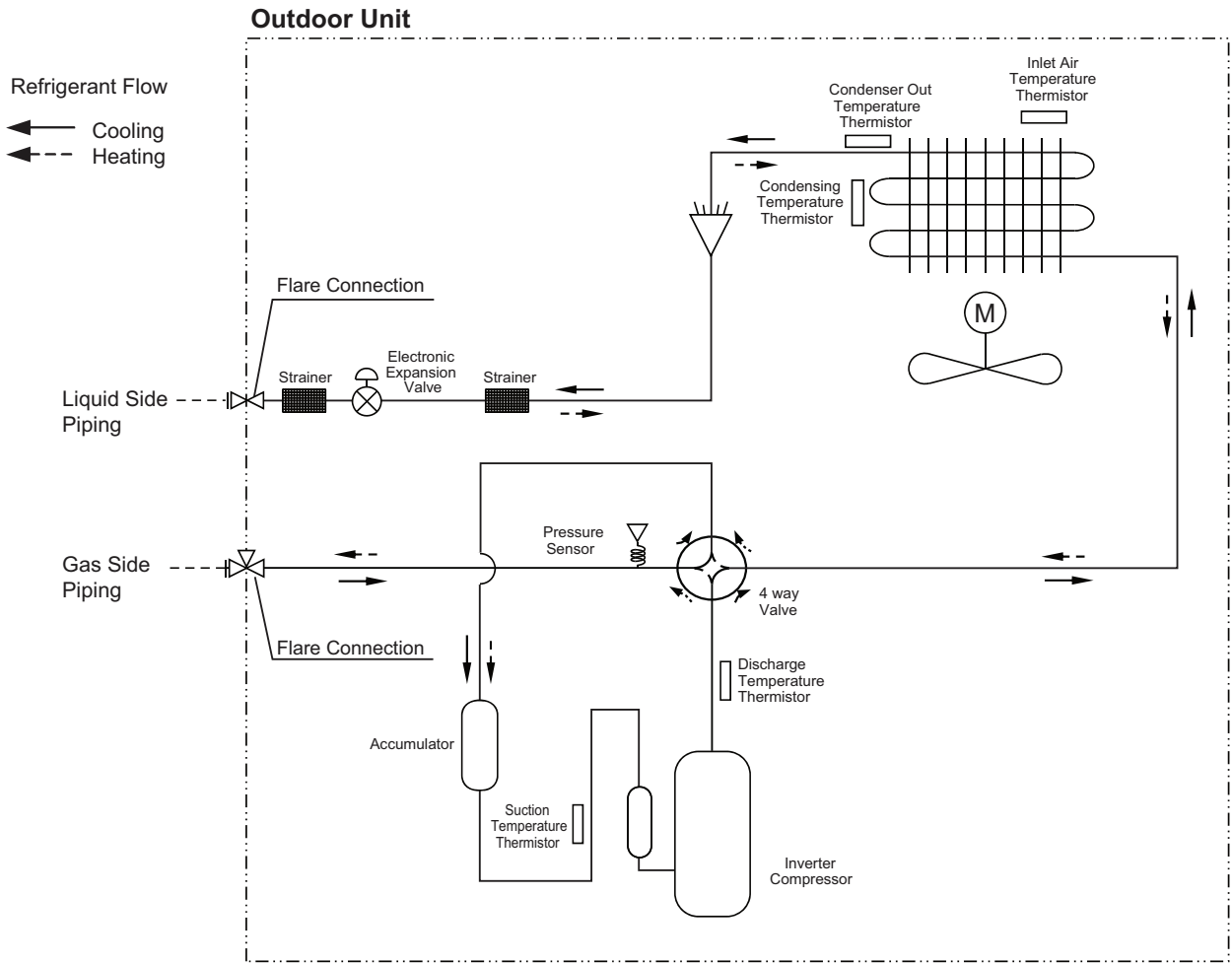
## ■ AUUW09GA0 [UU09W UL0], AUUW12GA0 [UU12W UL0]



Description	PCB Connector
Suction Temperature Thermistor	CN_SUCTION
Discharge Temperature Thermistor	CN_DISCHARGE
Condenser Out Temperature Thermistor	CN_C-PIPE
Inlet Air Temperature Thermistor	CN_AIR
Condensing Temperature Thermistor	CN_MID
Pressure Sensor	CN_H-PRESSURE

# 4. Piping Diagrams

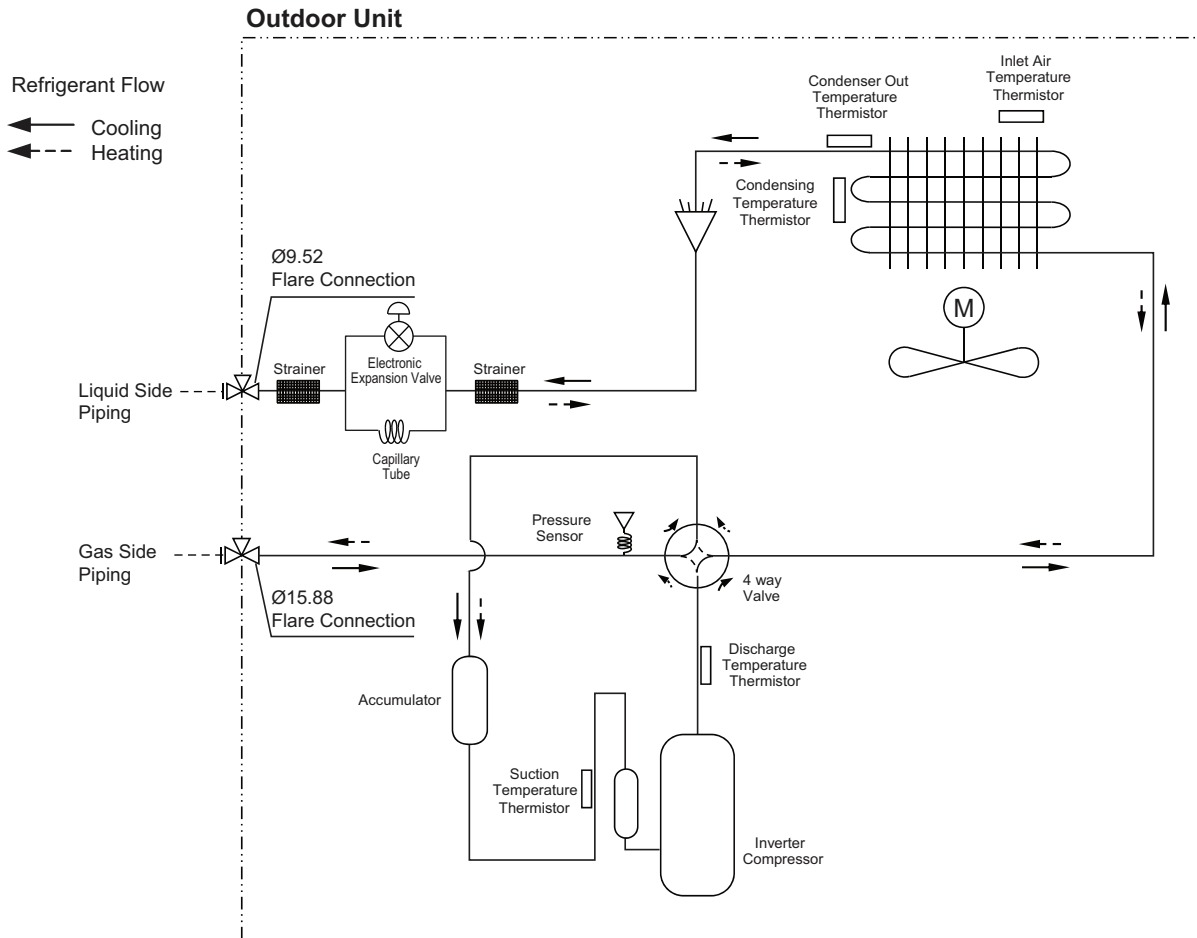
## ■ AUUW18GAE [UU18W UE4], AUUW24GAE [UU24W U44], AUUW30GAE [UU30W U44]



Description	PCB Connector
Electronic Expansion Valve	CN-EEV1(WH)
Thermistor for suction pipe temperature	CN-SUCTION(GR)
Thermistor for discharge pipe temperature	CN-DISCHARGE(BK)
Thermistor for condenser pipe temperature	CN-C_PIPE(VI)
Thermistor for outdoor air temperature	CN-AIR(YL)
Thermistor for condenser middle pipe temperature	CN-MID(BR)
Pressure sensor	CN-H_PRESS(RD)

# 4. Piping Diagrams

## ■ AUUW366D2 [UU36W UO2]

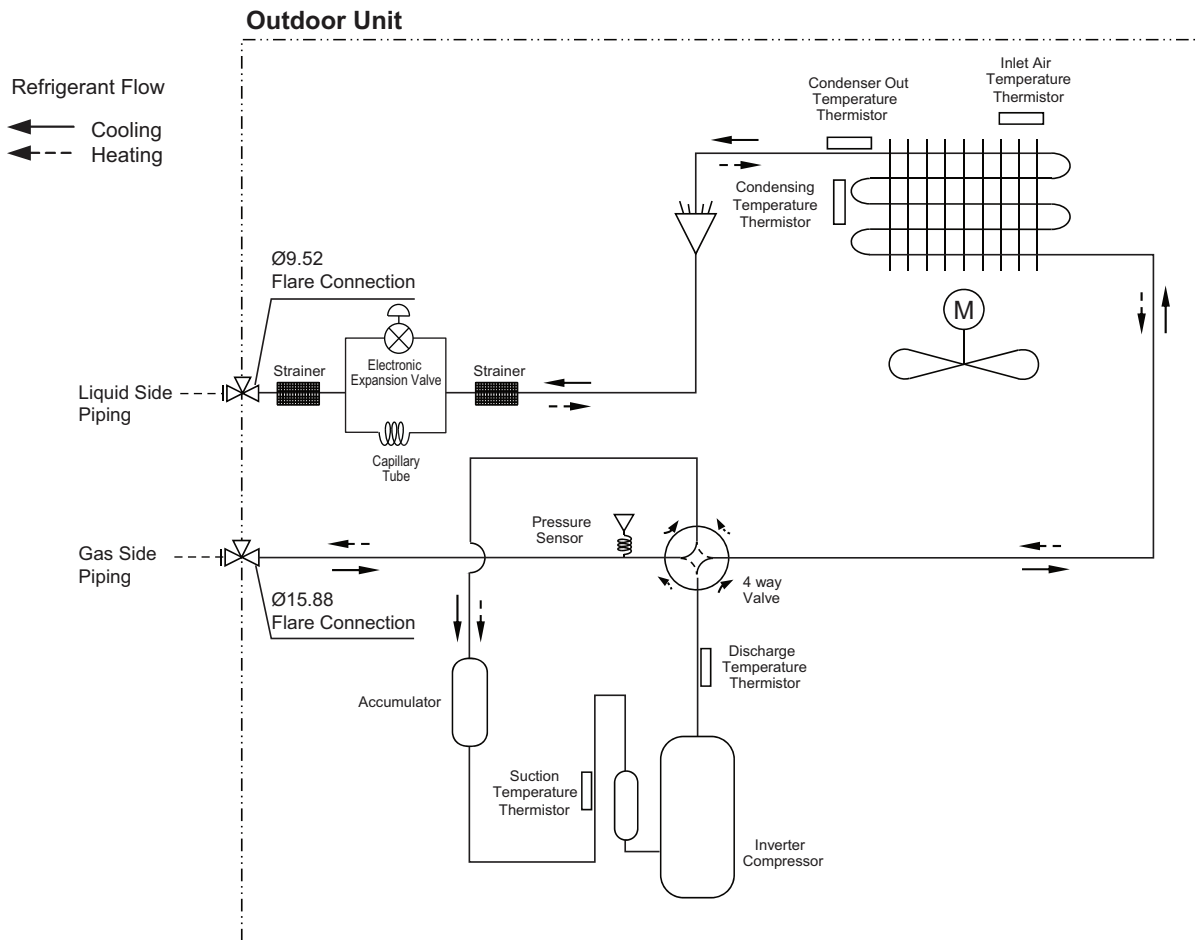


Description	PCB Connector
Suction Temperature Thermistor	CN_TH3
Discharge Temperature Thermistor	
Condenser Out Temperature Thermistor	CN_TH2
Inlet Air Temperature Thermistor	
Condensing Temperature Thermistor	CN_TH4
Pressure Sensor	P-SENSOR(H)



# 4. Piping Diagrams

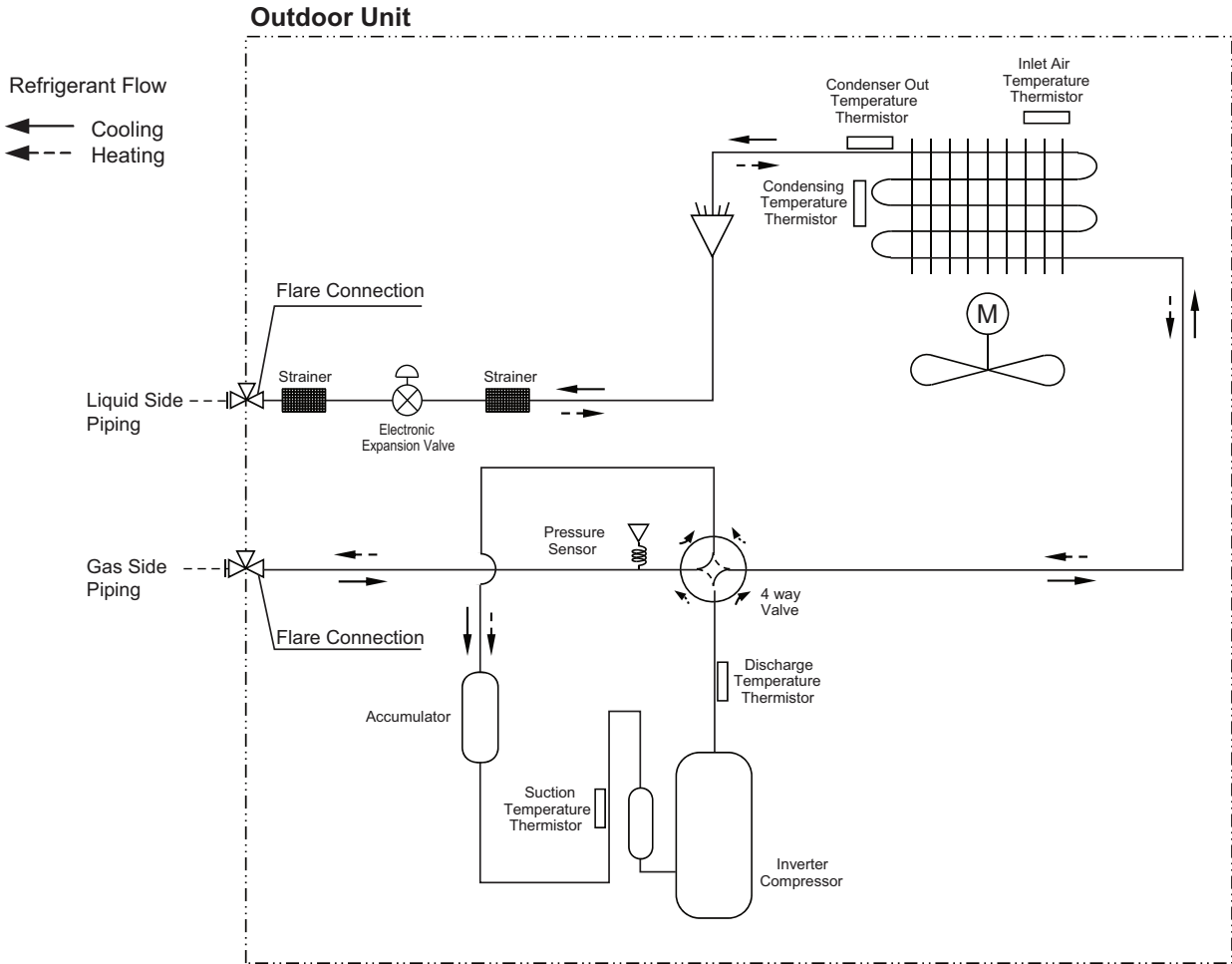
## ■ AUUW368D2 [UU37W UO2]



Description	PCB Connector
Suction Temperature Thermistor	CN_TH2
Discharge Temperature Thermistor	
Condenser Out Temperature Thermistor	CN_TH1
Inlet Air Temperature Thermistor	
Condensing Temperature Thermistor	CN_TH3
Pressure Sensor	P-SENSOR(H)

# 4. Piping Diagrams

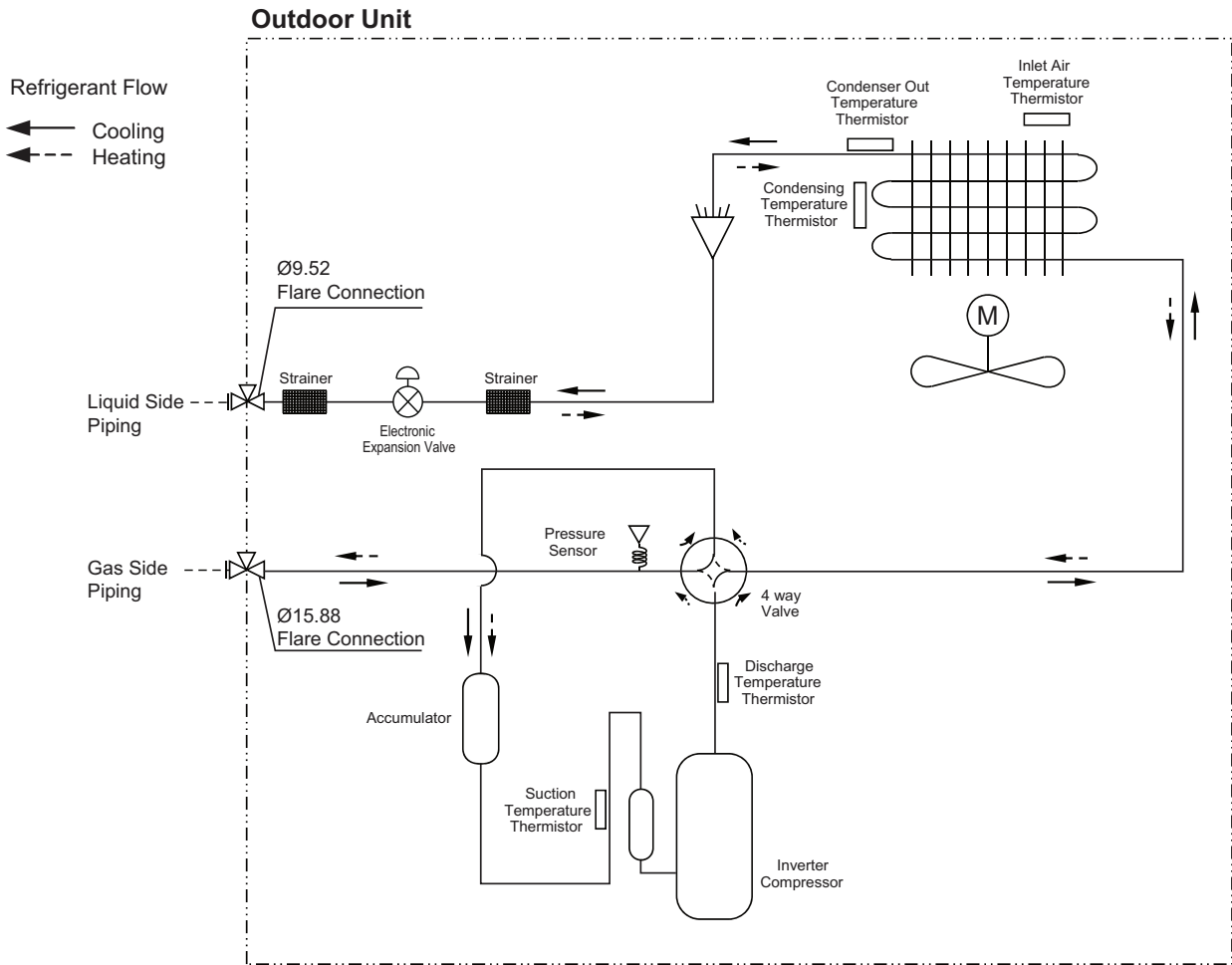
## ■ AUUW426D2 [UU42W U32], AUUW486D2 [UU48W U32], AUUW606D2 [UU60W U32]



Description	PCB Connector
Suction Temperature Thermistor	CN_TH3
Discharge Temperature Thermistor	
Condenser Out Temperature Thermistor	CN_TH2
Inlet Air Temperature Thermistor	
Condensing Temperature Thermistor	CN_TH4
Pressure Sensor	P-SENSOR(H)

# 4. Piping Diagrams

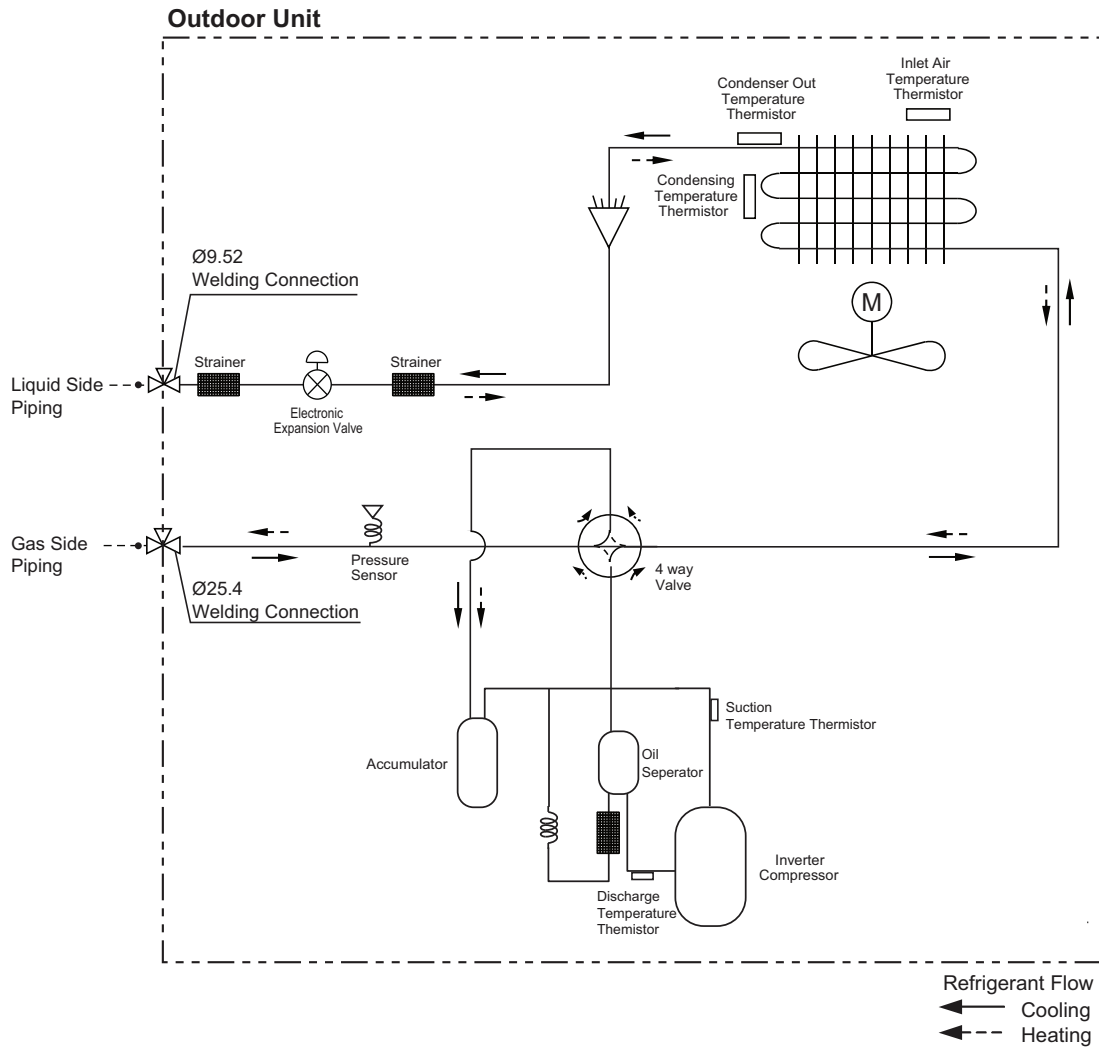
## ■ AUUW428D2 [UU43W U32], AUUW488D2 [UU49W U32], AUUW608D2 [UU61W U32]



Description	PCB Connector
Suction Temperature Thermistor	CN_TH2
Discharge Temperature Thermistor	
Condenser Out Temperature Thermistor	CN_TH1
Inlet Air Temperature Thermistor	
Condensing Temperature Thermistor	CN_TH3
Pressure Sensor	P-SENSOR(H)

# 4. Piping Diagrams

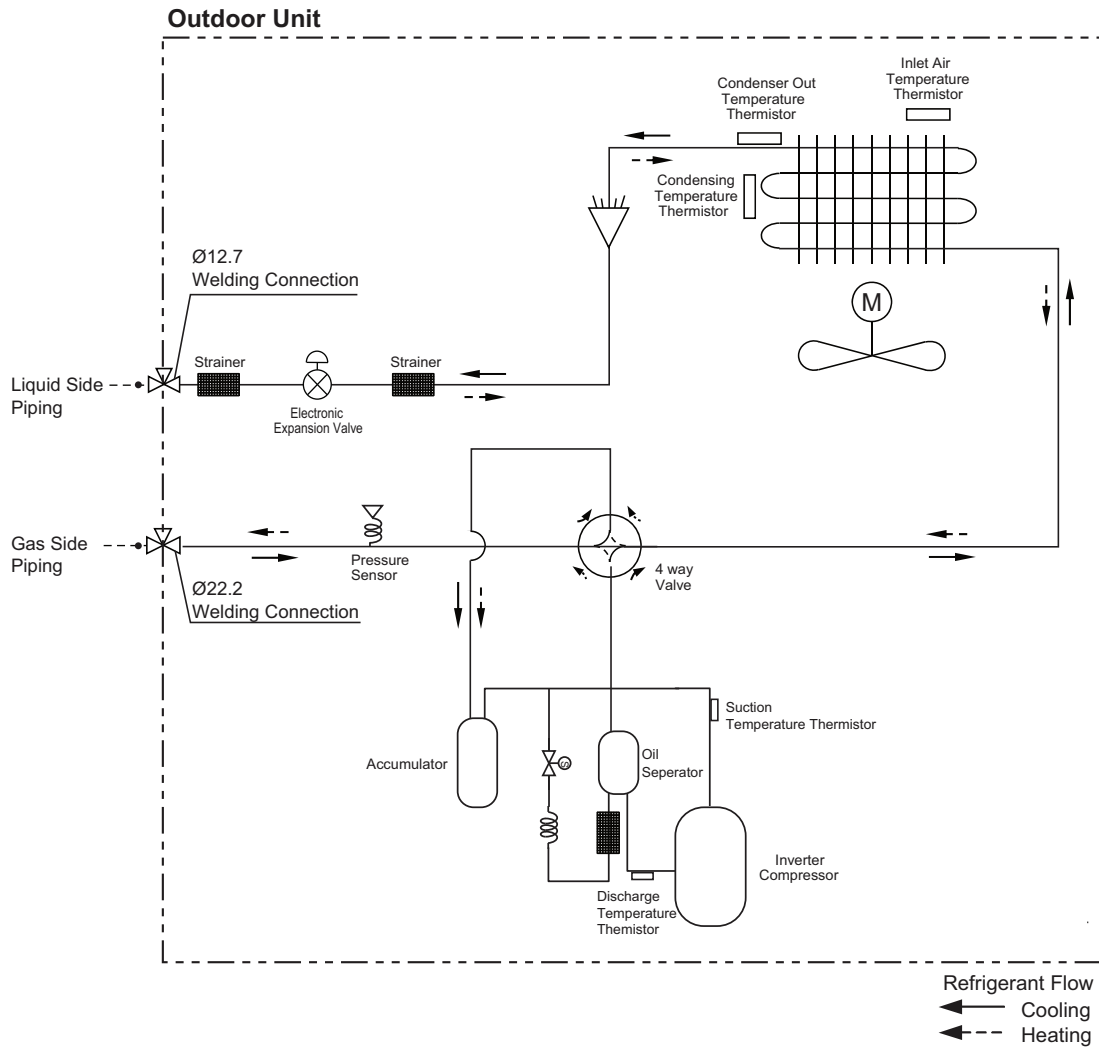
## ■ AUUW70LAE [UU70W U34]



Description	PCB Connector
Suction Temperature Thermistor	CN_SUCTION
Discharge Temperature Themistor	CN_DISCHA
Condenser Out Temperature Themistor	CN_C_PIPE
Inlet Air Temperature Thermistor	CN_AIR
Condensing Temperature Thermistor	CN_MID
Pressure Sensor	CN_H_PRESS

# 4. Piping Diagrams

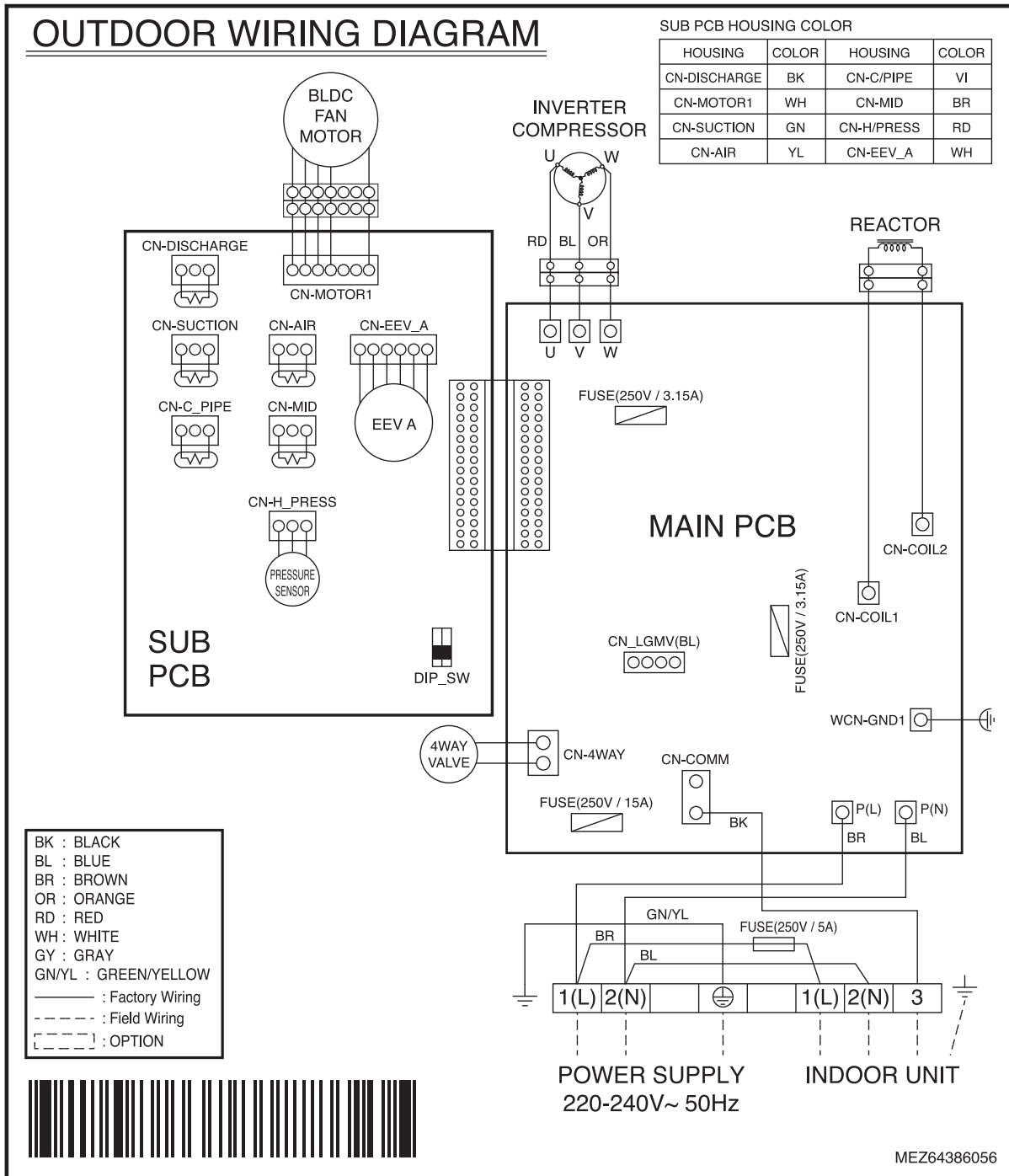
## ■ AUUW85LAE [UU85W U74]



Description	PCB Connector
Suction Temperature Thermistor	CN_SUCTION
Discharge Temperature Themistor	CN_DISCHA
Condenser Out Temperature Themistor	CN_C_PIPE
Inlet Air Temperature Thermistor	CN_AIR
Condensing Temperature Thermistor	CN_MID
Pressure Sensor	CN_H_PRESS

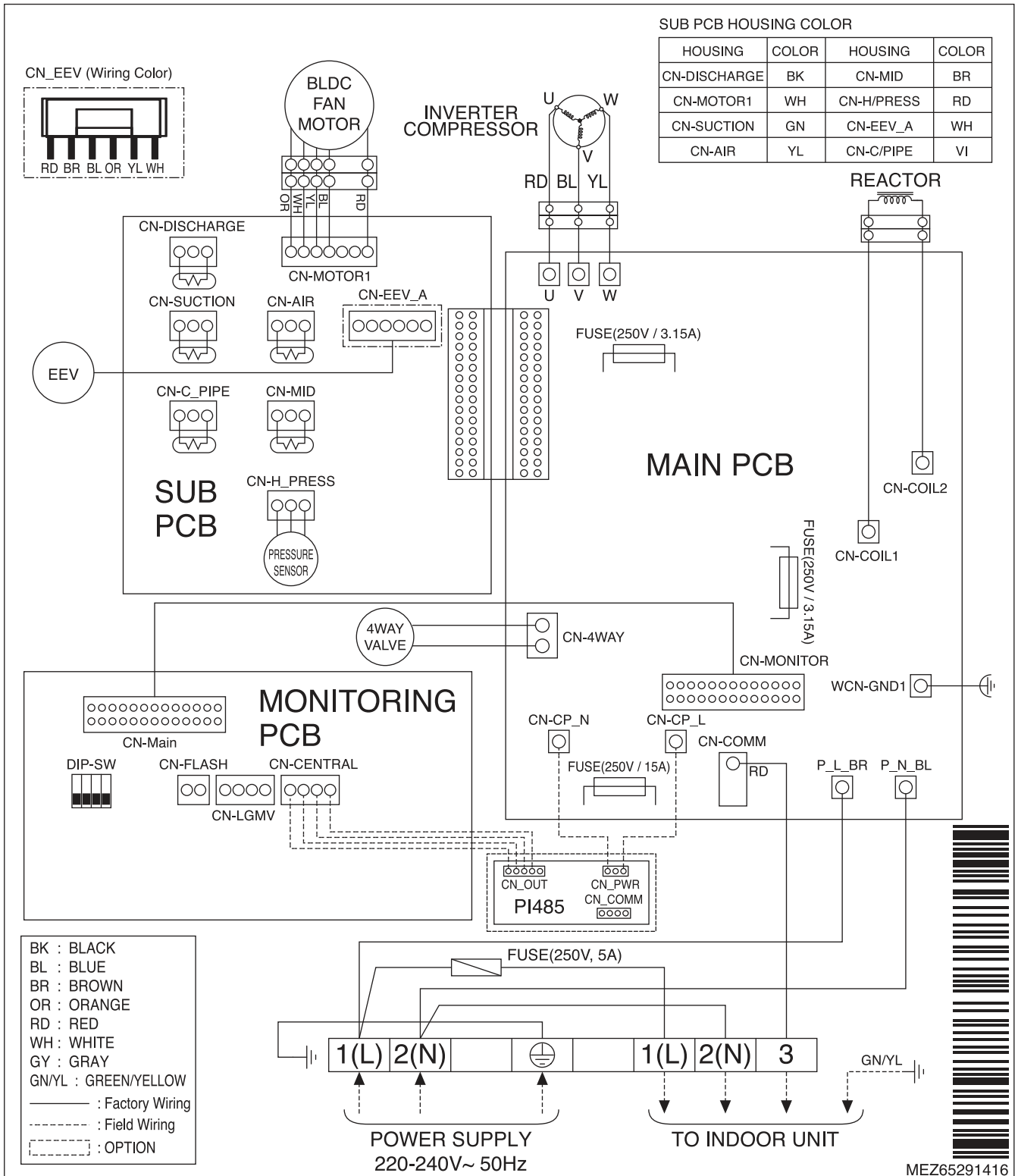
# 5. Wiring Diagrams

## ■ AUUW09GA0 [UU09W UL0], AUUW12GA0 [UU12W UL0]



# 5. Wiring Diagrams

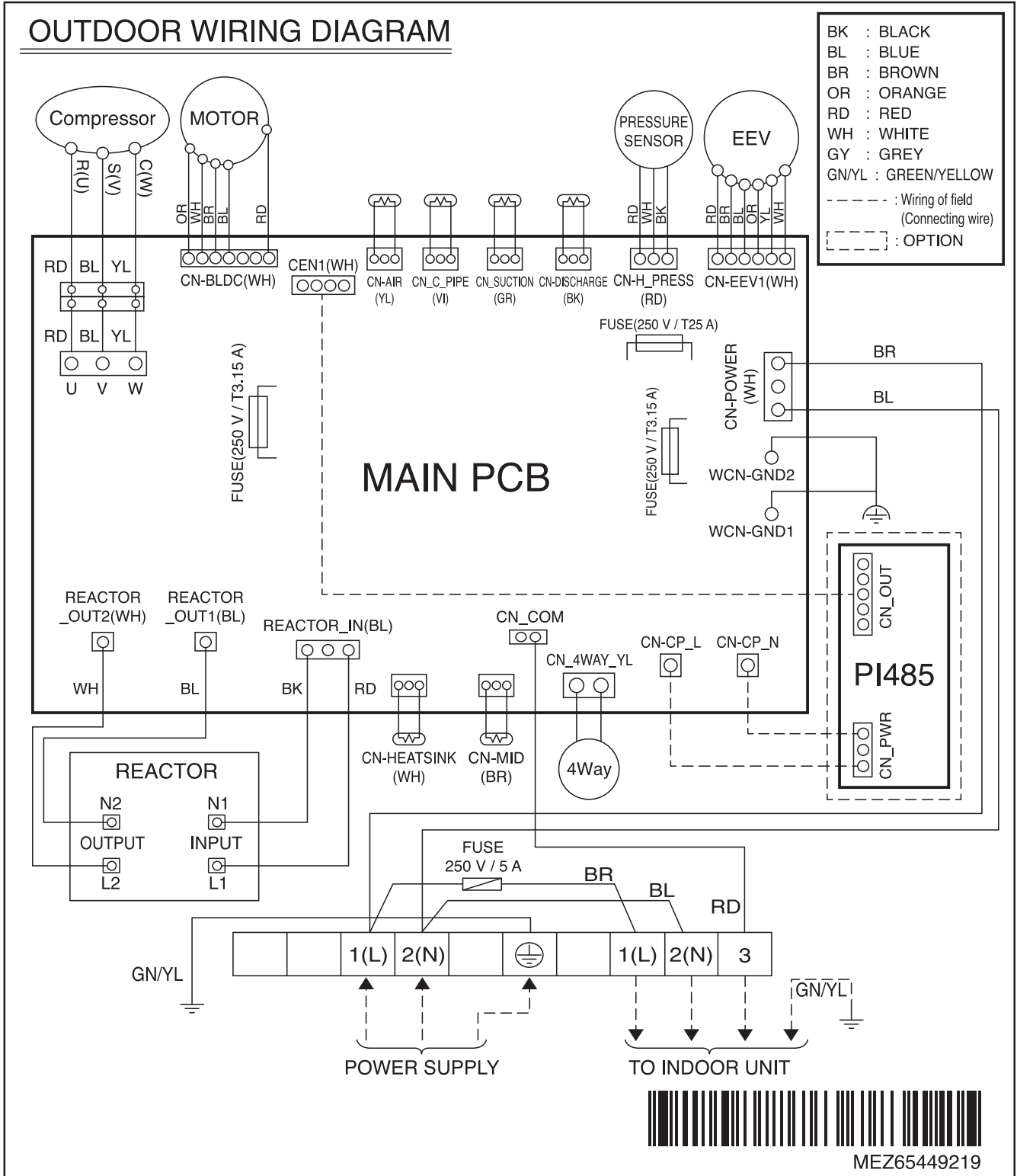
## ■ AUUW18GAE [UU18W UE4]



MEZ65291416

# 5. Wiring Diagrams

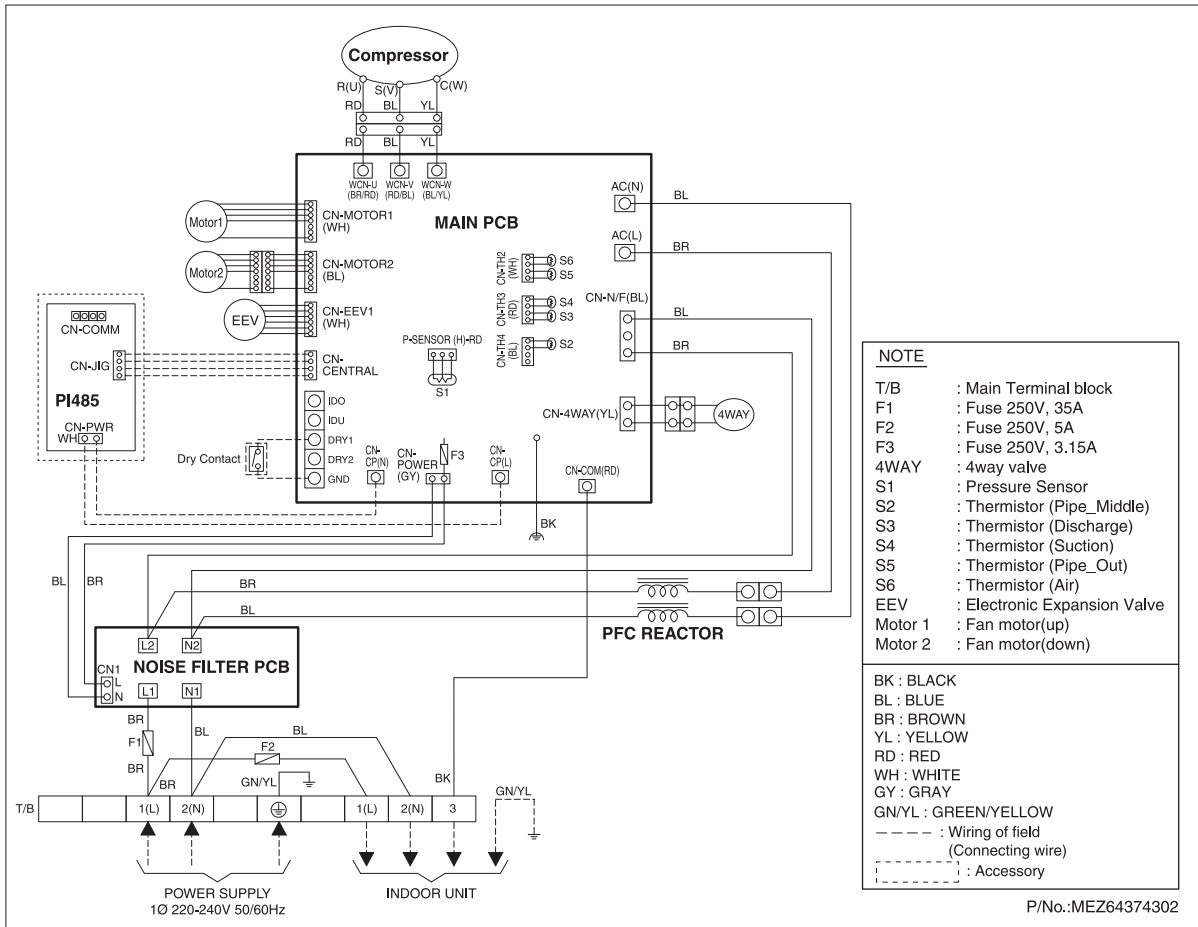
## ■ AUUW24GAE [UU24W U44] , AUUW30GAE [UU30W U44]





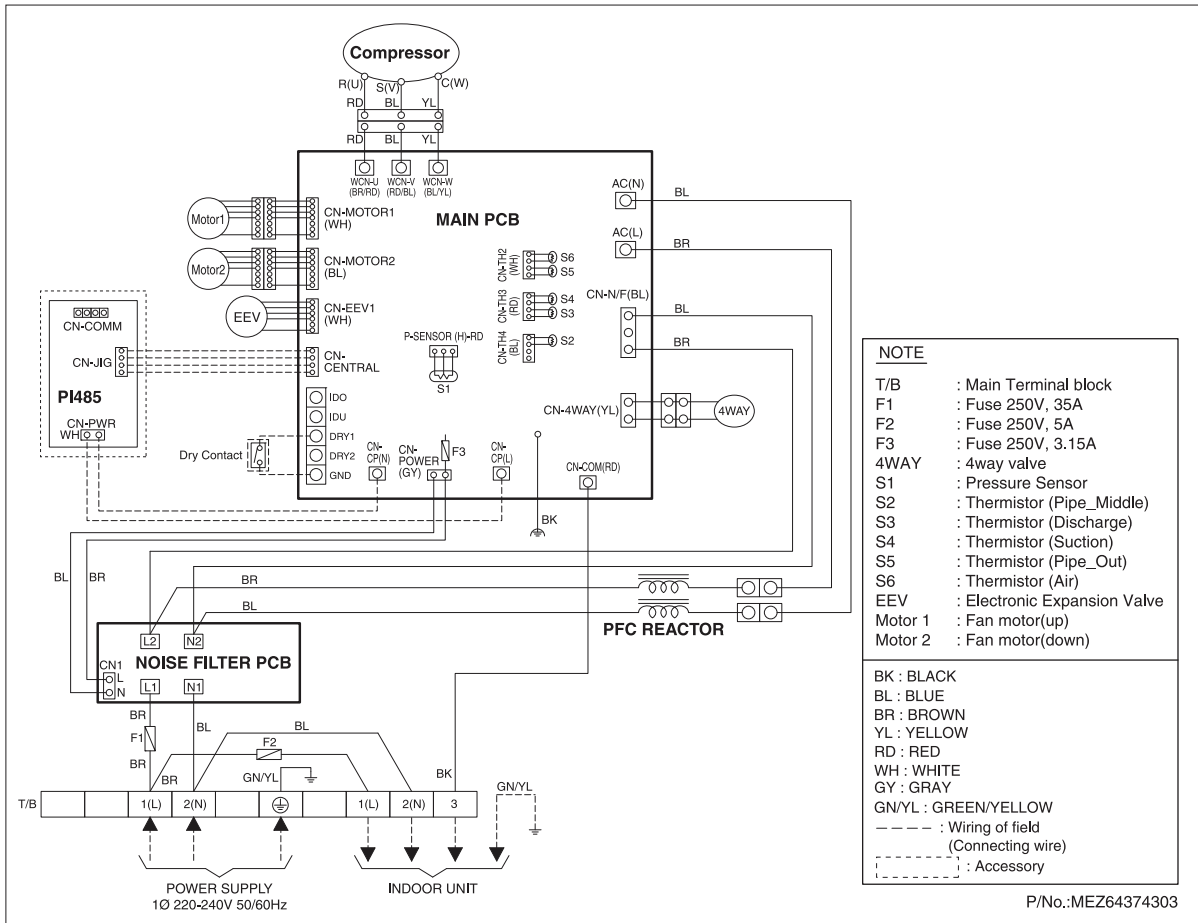
# 5. Wiring Diagrams

## ■ AUUW366D2 [UU36W UO2]



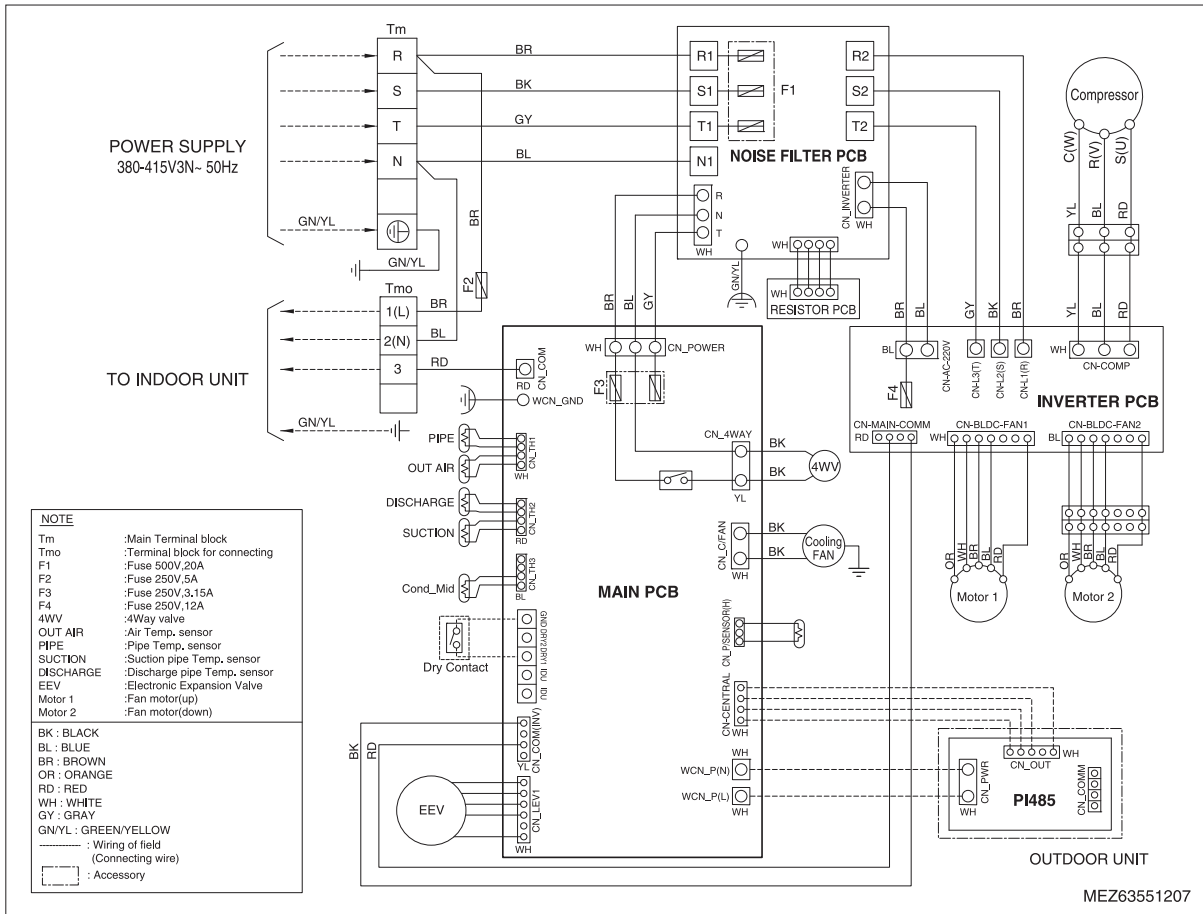
# 5. Wiring Diagrams

## ■ AUUW426D2 [UU42W U32], AUUW486D2 [UU48W U32], AUUW606D2 [UU60W U32]



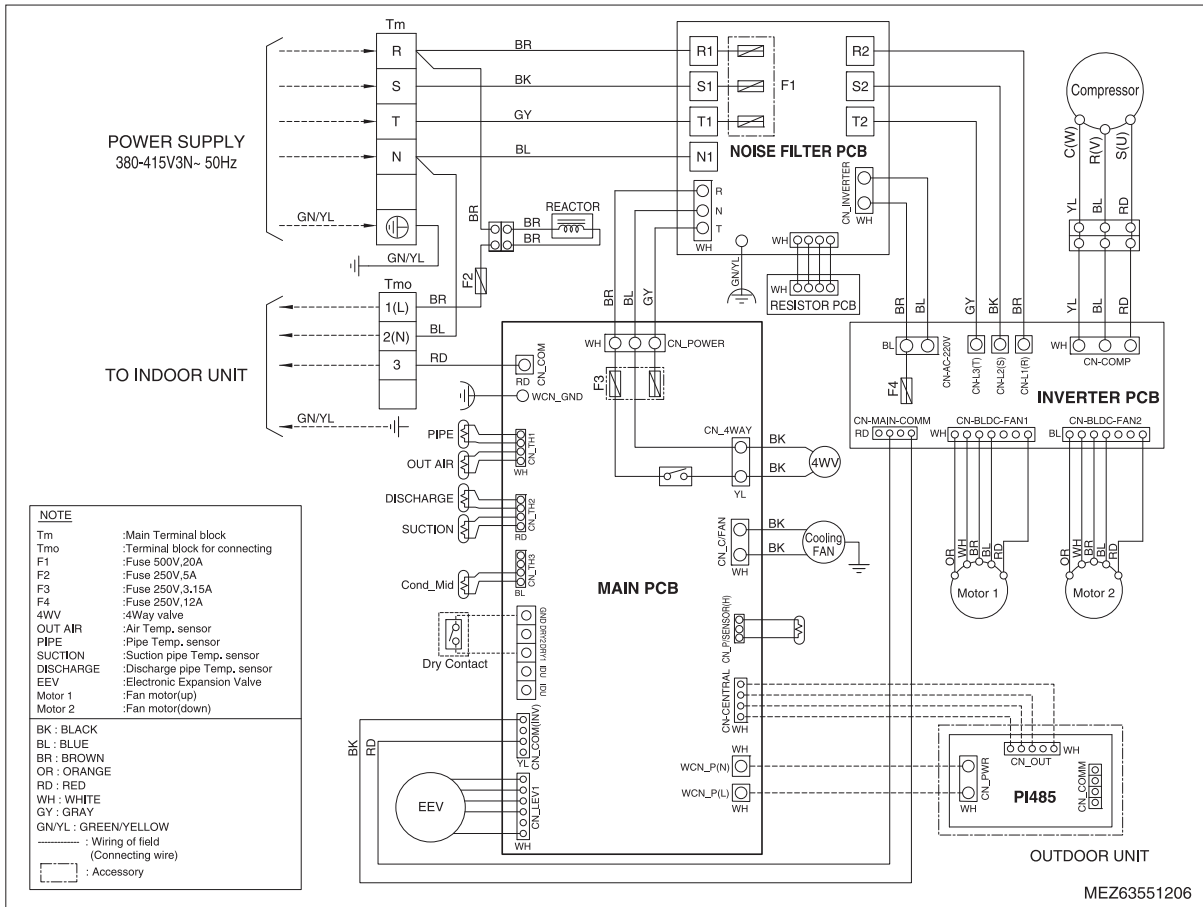
# 5. Wiring Diagrams

## ■ AUUW368D2 [UU37W UO2]



# 5. Wiring Diagrams

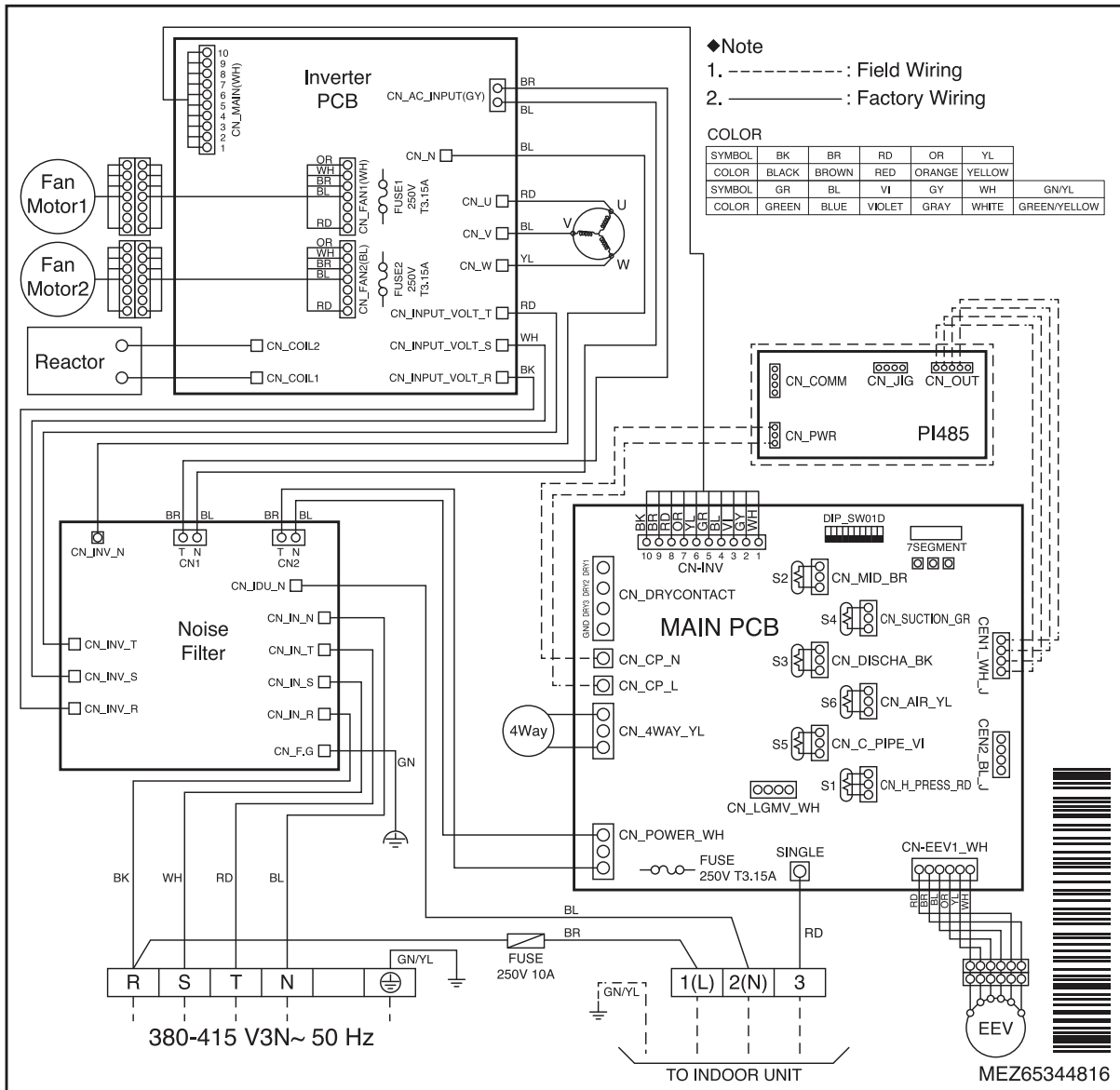
## ■ AUUW428D2 [UU43W U32], AUUW488D2 [UU49W U32], AUUW608D2 [UU61W U32]



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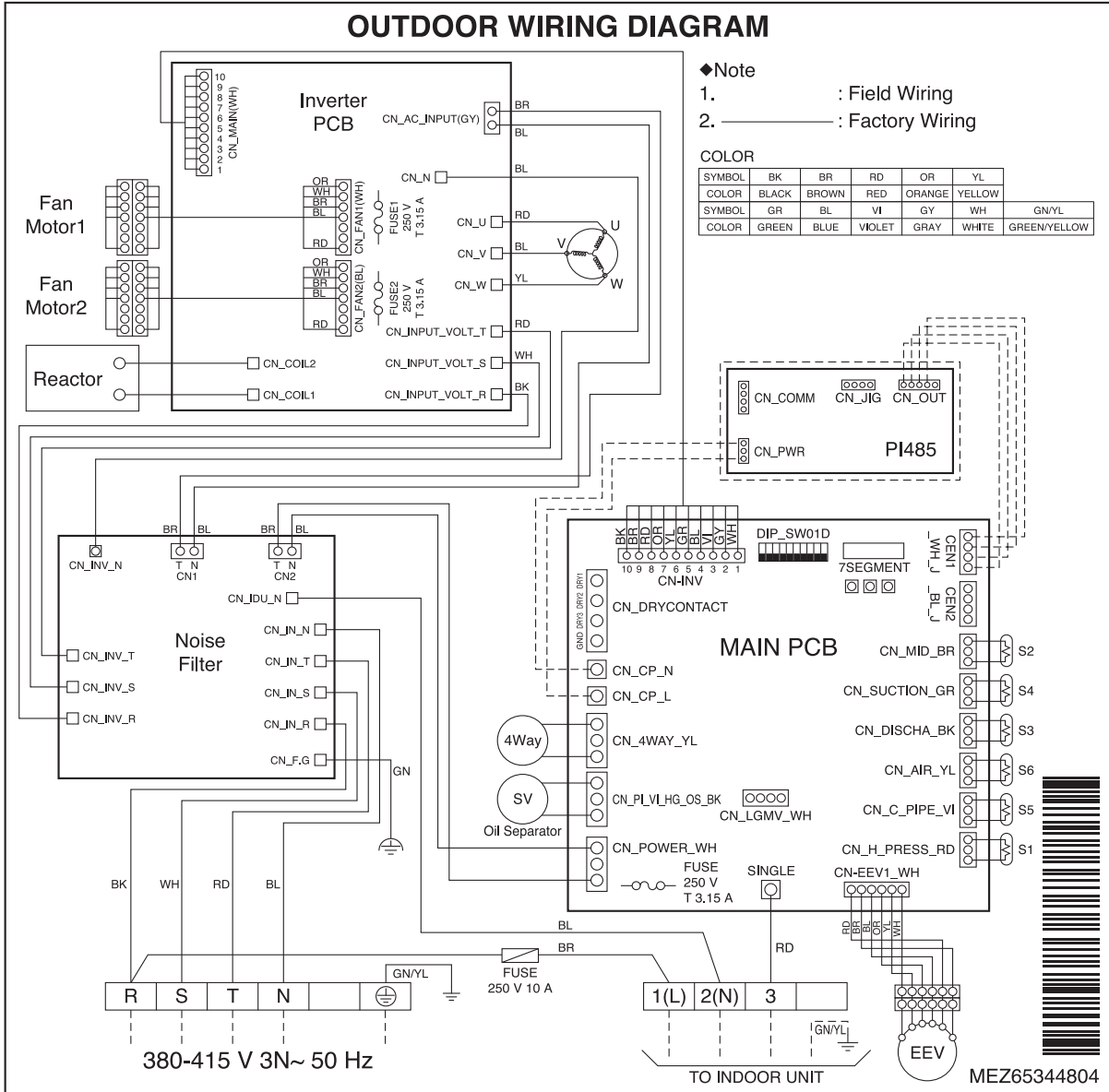
# 5. Wiring Diagrams

## ■ AUUW70LAE [UU70W U34]



# 5. Wiring Diagrams

## ■ AUUW85LAE [UU85W U74]



## 6. Capacity Tables

### 6.1 AUUW09GA0 [UU09W UL0]

#### ■ Cooling Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	1.75	1.48	0.30	2.19	1.74	0.40	2.53	2.00	0.49	2.79	2.13	0.51	3.04	2.09	0.53	3.24	2.07	0.53
25.0	1.66	1.44	0.33	2.10	1.70	0.43	2.44	1.96	0.53	2.69	2.09	0.55	2.95	2.05	0.57	3.14	2.03	0.57
32.0	1.52	1.37	0.38	1.97	1.64	0.48	2.30	1.90	0.59	2.56	2.03	0.61	2.81	1.99	0.63	3.01	1.96	0.63
35.0	1.47	1.35	0.39	1.91	1.61	0.50	2.24	1.87	0.61	2.50	2.00	0.63	2.76	1.96	0.65	2.95	1.94	0.65
40.0	1.37	1.30	0.43	1.81	1.56	0.53	2.15	1.83	0.65	2.40	1.96	0.67	2.66	1.92	0.69	2.85	1.89	0.69
43.0	1.32	1.28	0.45	1.76	1.54	0.55	2.09	1.80	0.67	2.35	1.93	0.69	2.60	1.89	0.71	2.80	1.87	0.72
46.0	1.26	1.25	0.47	1.70	1.51	0.57	2.04	1.77	0.70	2.29	1.90	0.72	2.55	1.87	0.74	2.74	1.84	0.74
48.0	1.22	1.21	0.48	1.66	1.49	0.58	2.00	1.76	0.74	2.10	1.76	0.76	2.34	1.72	0.77	2.52	1.70	0.78

#### ■ Heating Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB									
	16.0		18.0		20.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	2.00	0.72	1.98	0.76	1.97	0.80	1.95	0.84	1.94	0.89
-15.0	2.34	0.80	2.33	0.84	2.31	0.88	2.30	0.93	2.28	0.97
-10.0	2.69	0.88	2.67	0.93	2.66	0.97	2.64	0.98	2.63	0.99
-5.0	3.03	0.97	3.02	0.98	3.00	0.99	2.88	0.95	2.76	0.90
0.0	3.32	0.99	3.16	0.94	3.00	0.90	2.88	0.86	2.76	0.82
6.0	3.32	0.88	3.16	0.84	3.00	0.80	2.88	0.76	2.76	0.72
10.0	3.32	0.82	3.16	0.77	3.00	0.73	2.88	0.69	2.76	0.65
15.0	3.32	0.73	3.16	0.69	3.00	0.65	2.88	0.61	2.76	0.57
18.0	3.32	0.68	3.16	0.64	3.00	0.60	2.88	0.56	2.76	0.52

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

#### ■ Correction factor due to the indoor unit combination

##### ◆ Cooling

Indoor Unit	ATNH09GRLE2[CT09 NR2]		ABNW09GL2A2[CB09L N22]		AVNH09GELA2[CV09 NE2]		AQNH09GALA0[CQ09 NA0]	
	TC	PI	TC	PI	TC	PI	TC	PI
Max.	1.10	1.20	1.16	1.26	1.10	1.27	1.12	1.29
Rated	1.00	1.00	1.00	1.06	1.00	1.12	1.02	1.12

##### ◆ Heating

Indoor Unit	ATNH09GRLE2[CT09 NR2]		ABNW09GL2A2[CB09L N22]		AVNH09GELA2[CV09 NE2]		AQNH09GALA0[CQ09 NA0]	
	TC	PI	TC	PI	TC	PI	TC	PI
Max.	1.10	1.20	1.20	1.24	1.10	1.18	1.13	1.23
Rated	1.00	1.00	1.07	1.00	1.00	1.04	1.03	1.05

#### Note

Except for standard temperature condition, the capacity is not guaranteed.

## 6. Capacity Tables

### 6.2 AUUW12GA0 [UU12W UL0]

#### ■ Cooling Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	2.38	1.96	0.46	2.99	2.31	0.61	3.44	2.65	0.76	3.79	2.82	0.79	4.14	2.77	0.82	4.40	2.74	0.82
25.0	2.26	1.90	0.51	2.86	2.25	0.66	3.31	2.59	0.82	3.66	2.77	0.85	4.01	2.72	0.88	4.27	2.68	0.88
32.0	2.07	1.82	0.58	2.67	2.17	0.73	3.13	2.51	0.90	3.48	2.68	0.93	3.82	2.64	0.96	4.09	2.60	0.97
35.0	2.00	1.79	0.61	2.60	2.13	0.76	3.05	2.48	0.94	3.40	2.65	0.97	3.75	2.60	1.00	4.01	2.57	1.00
40.0	1.87	1.73	0.66	2.47	2.07	0.81	2.92	2.42	1.00	3.27	2.59	1.03	3.62	2.54	1.06	3.88	2.51	1.07
43.0	1.79	1.69	0.69	2.39	2.04	0.84	2.85	2.38	1.04	3.19	2.56	1.07	3.54	2.51	1.10	3.80	2.47	1.10
46.0	1.71	1.66	0.72	2.31	2.00	0.88	2.77	2.35	1.07	3.11	2.52	1.10	3.46	2.47	1.13	3.73	2.44	1.14
48.0	1.66	1.64	0.74	2.26	1.98	0.90	2.72	2.33	1.13	2.79	2.27	1.16	3.10	2.23	1.19	3.34	2.20	1.20

#### ■ Heating Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB									
	16.0		18.0		20.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	2.66	1.03	2.64	1.09	2.62	1.15	2.60	1.21	2.58	1.28
-15.0	3.12	1.15	3.10	1.21	3.08	1.27	3.06	1.33	3.04	1.39
-10.0	3.58	1.27	3.56	1.33	3.54	1.39	3.52	1.41	3.50	1.42
-5.0	4.04	1.39	4.02	1.41	4.00	1.42	3.84	1.36	3.68	1.30
0.0	4.43	1.42	4.21	1.36	4.00	1.30	3.84	1.24	3.68	1.18
6.0	4.43	1.27	4.21	1.21	4.00	1.15	3.84	1.09	3.68	1.04
10.0	4.43	1.17	4.21	1.11	4.00	1.05	3.84	1.00	3.68	0.94
15.0	4.43	1.05	4.21	0.99	4.00	0.93	3.84	0.87	3.68	0.82
18.0	4.43	0.98	4.21	0.92	4.00	0.86	3.84	0.80	3.68	0.75

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

#### ■ Correction factor due to the indoor unit combination

##### ◆ Cooling

Indoor Unit	ATNH12GRLE2[CT12 NR2]		ABNH12GL2A2[CB12L N22]		AVNH12GELA2[CV12 NE2]		AQNH12GALA0[CQ12 NA0]	
	TC	PI	TC	PI	TC	PI	TC	PI
Max.	1.10	1.20	1.09	1.13	1.07	1.20	1.10	1.27
Rated	1.00	1.00	1.00	0.98	0.97	1.06	1.03	1.12

##### ◆ Heating

Indoor Unit	ATNH12GRLE2[CT12 NR2]		ABNH12GL2A2[CB12L N22]		AVNH12GELA2[CV12 NE2]		AQNH12GALA0[CQ12 NA0]	
	TC	PI	TC	PI	TC	PI	TC	PI
Max.	1.10	1.20	1.13	1.09	1.08	1.17	1.10	1.19
Rated	1.00	1.00	1.00	0.91	0.95	1.03	1.00	1.05

#### Note

Except for standard temperature condition, the capacity is not guaranteed.



## 6. Capacity Tables

### 6.3 AUUW18GAE [UU18W UE4]

#### ■ Cooling Capacity

Outdoor Air Temp. °CDB	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	3.51	2.70	0.74	4.39	3.18	0.98	5.06	3.65	1.22	5.57	3.89	1.27	6.08	3.82	1.32	6.47	3.78	1.32
25.0	3.32	2.62	0.81	4.20	3.10	1.06	4.87	3.57	1.32	5.38	3.81	1.37	5.89	3.74	1.41	6.28	3.70	1.42
32.0	3.05	2.51	0.93	3.93	2.98	1.18	4.60	3.46	1.45	5.11	3.70	1.50	5.62	3.63	1.55	6.01	3.58	1.56
35.0	2.94	2.46	0.98	3.82	2.94	1.23	4.49	3.41	1.51	5.00	3.65	1.56	5.51	3.58	1.61	5.90	3.54	1.62
40.0	2.74	2.38	1.06	3.63	2.86	1.31	4.30	3.33	1.61	4.81	3.57	1.66	5.32	3.50	1.70	5.71	3.46	1.71
43.0	2.63	2.33	1.11	3.51	2.81	1.36	4.18	3.28	1.67	4.69	3.52	1.72	5.21	3.45	1.76	5.59	3.41	1.77
46.0	2.52	2.28	1.16	3.40	2.76	1.41	4.07	3.24	1.73	4.58	3.47	1.77	5.09	3.41	1.82	5.48	3.36	1.83
48.0	2.44	2.25	1.19	3.32	2.73	1.44	3.64	2.92	1.78	4.10	3.13	1.82	4.56	3.07	1.87	4.92	3.03	1.88

#### ■ Heating Capacity

Outdoor Air Temp. °CWB	Indoor Air Temperature : °CDB									
	16.0		18.0		20.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	3.45	1.14	3.42	1.21	3.39	1.27	3.37	1.33	3.34	1.37
-15.0	4.05	1.27	4.03	1.34	4.00	1.41	3.97	1.47	3.95	1.52
-10.0	4.66	1.41	4.62	1.48	4.60	1.55	4.57	1.61	4.55	1.68
-5.0	5.25	1.55	5.23	1.62	5.20	1.68	5.18	1.76	5.15	1.83
0.0	5.86	1.68	5.83	1.76	5.80	1.83	5.57	1.75	5.34	1.68
6.0	6.42	1.83	6.11	1.74	5.80	1.66	5.57	1.58	5.34	1.49
10.0	6.42	1.68	6.11	1.62	5.80	1.55	5.57	1.46	5.34	1.37
15.0	6.42	1.55	6.11	1.48	5.80	1.41	5.57	1.32	5.34	1.22
18.0	6.42	1.47	6.11	1.40	5.80	1.33	5.57	1.23	5.34	1.14

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

#### ■ Correction factor due to the indoor unit combination

##### ◆ Cooling

Indoor Unit	ATNW18GQLA0 [CT18 NQ4]		ABNW18GM1A0 [CM18 N14]		ABNH18GL2A2 [CB18 N22]		UVNH18GJLA2 [CV18 NJ2]		AQNH18GALA0 [CQ18 NA0]	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Max.	1.10	1.17	1.20	1.21	1.20	1.26	1.16	1.15	1.12	1.19
Rated	1.00	1.00	1.00	0.94	1.00	0.99	1.00	0.94	1.00	0.99

##### ◆ Heating

Indoor Unit	ATNW18GQLA0 [CT18 NQ4]		ABNW18GM1A0 [CM18 N14]		ABNH18GL2A2 [CB18 N22]		UVNH18GJLA2 [CV18 NJ2]		AQNH18GALA [CQ18 NA0]	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
Max.	1.17	1.26	1.24	1.29	1.24	1.43	1.09	1.16	1.00	1.19
Rated	1.00	1.00	1.03	1.00	1.03	1.11	0.90	0.92	0.83	0.90

#### Note

Except for standard temperature condition, the capacity is not guaranteed.

## 6. Capacity Tables

### 6.4 AUU24GAE [UU24W U44]

#### ■ Cooling Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	4.77	3.97	0.95	5.97	4.67	1.26	6.88	5.37	1.57	7.58	5.73	1.63	8.27	5.62	1.69	8.80	5.56	1.70
25.0	4.51	3.86	1.04	5.71	4.56	1.36	6.62	5.26	1.69	7.32	5.61	1.75	8.01	5.51	1.81	8.54	5.44	1.82
32.0	4.15	3.69	1.19	5.35	4.39	1.51	6.26	5.09	1.86	6.96	5.44	1.93	7.65	5.34	1.99	8.18	5.27	2.00
35.0	3.99	3.62	1.25	5.19	4.32	1.57	6.11	5.02	1.94	6.80	5.37	2.00	7.49	5.27	2.06	8.02	5.20	2.07
40.0	3.73	3.50	1.36	4.93	4.20	1.68	5.85	4.90	2.06	6.54	5.25	2.12	7.24	5.15	2.18	7.76	5.09	2.20
43.0	3.58	3.43	1.42	4.78	4.13	1.74	5.69	4.83	2.14	6.39	5.18	2.20	7.08	5.08	2.26	7.61	5.02	2.27
46.0	3.42	3.36	1.48	4.62	4.06	1.80	5.60	4.82	2.21	6.31	5.18	2.27	7.01	5.07	2.33	7.55	5.01	2.35
48.0	3.32	3.31	1.53	4.52	4.01	1.85	5.55	4.81	2.51	6.26	5.17	2.57	6.97	5.07	2.65	7.50	5.00	2.66

#### ■ Heating Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB									
	16.0		18.0		20.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	4.77	1.59	4.73	1.72	4.69	1.86	4.65	2.02	4.61	2.18
-15.0	5.88	1.86	5.83	2.00	5.79	2.13	5.75	2.28	5.72	2.43
-10.0	6.98	2.13	6.94	2.27	6.90	2.41	6.86	2.55	6.82	2.68
-5.0	8.08	2.41	8.04	2.55	8.00	2.68	7.68	2.56	7.36	2.43
0.0	8.86	2.68	8.43	2.55	8.00	2.41	7.68	2.29	7.36	2.18
6.0	8.86	2.29	8.43	2.18	8.00	2.08	7.68	1.98	7.36	1.87
10.0	8.86	2.13	8.43	2.00	8.00	1.86	7.68	1.77	7.36	1.67
15.0	8.86	1.86	8.43	1.72	8.00	1.59	7.68	1.50	7.36	1.42
18.0	8.86	1.70	8.43	1.56	8.00	1.42	7.68	1.34	7.36	1.26

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

#### ■ Correction factor due to the indoor unit combination

##### ◆ Cooling

Indoor Unit	ATNW24GPLA0 [CT24 NP4]		ABNW24GM1A0 [CM24 N14]		ABNH24GL3A2 [CB24L N32]		UVNH24GJLA2 [CV24 NJ2]	
	TC	PI	TC	PI	TC	PI	TC	PI
Max.	1.15	1.29	1.10	1.34	1.13	1.52	1.10	1.45
Rated	1.00	1.00	1.00	1.04	1.04	1.18	1.00	1.13

##### ◆ Heating

Indoor Unit	ATNW24GPLA0 [CT24 NP4]		ABNW24GM1A0 [CM24 N14]		ABNH24GL3A2 [CB24L N32]		UVNH24GJLA2 [CV24 NJ2]	
	TC	PI	TC	PI	TC	PI	TC	PI
Max.	1.10	1.229	1.04	1.37	1.03	1.20	1.04	1.44
Rated	1.00	1.00	0.94	1.06	0.94	0.93	0.94	1.11

#### Note

Except for standard temperature condition, the capacity is not guaranteed.

## 6. Capacity Tables

### 6.5 AUUW30GAE [UU30W U44]

#### ■ Cooling Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	5.61	4.32	1.19	7.02	5.08	1.57	8.10	5.84	1.95	8.92	6.22	2.02	9.73	6.11	2.10	10.35	6.04	2.11
25.0	5.31	4.19	1.30	6.72	4.95	1.70	7.79	5.72	2.10	8.61	6.10	2.18	9.43	5.99	2.25	10.05	5.91	2.27
32.0	4.88	4.01	1.48	6.29	4.77	1.88	7.37	5.54	2.32	8.18	5.92	2.40	9.00	5.81	2.47	9.62	5.73	2.49
35.0	4.70	3.94	1.56	6.11	4.70	1.96	7.18	5.46	2.41	8.00	5.84	2.49	8.82	5.73	2.57	9.44	5.66	2.58
40.0	4.39	3.81	1.69	5.80	4.57	2.09	6.88	5.33	2.57	7.69	5.71	2.65	8.51	5.60	2.72	9.13	5.53	2.73
43.0	4.21	3.73	1.77	5.62	4.49	2.17	6.53	5.13	2.75	7.33	5.50	2.83	8.13	5.39	2.91	8.73	5.32	2.92
46.0	4.03	3.65	1.85	5.44	4.42	2.25	6.19	4.92	2.93	6.96	5.28	3.01	7.74	5.18	3.09	8.33	5.11	3.11
48.0	3.90	3.60	1.90	5.32	4.36	2.30	5.96	4.78	3.06	6.72	5.14	3.14	7.48	5.03	3.22	8.06	4.96	3.23

#### ■ Heating Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB									
	16.0		18.0		20.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	4.97	2.16	4.93	2.32	4.88	2.47	4.84	2.64	4.80	2.81
-15.0	6.35	2.47	6.30	2.63	6.26	2.78	6.21	2.94	6.17	3.10
-10.0	7.72	2.78	7.67	2.94	7.63	3.09	7.59	3.25	7.55	3.40
-5.0	9.09	3.09	9.05	3.25	9.00	3.40	8.64	3.25	8.28	3.10
0.0	9.96	3.40	9.48	3.25	9.00	3.09	8.64	2.95	8.28	2.81
6.0	9.96	2.99	9.48	2.86	9.00	2.72	8.64	2.58	8.28	2.45
10.0	9.96	2.78	9.48	2.63	9.00	2.47	8.64	2.34	8.28	2.21
15.0	9.96	2.47	9.48	2.32	9.00	2.16	8.64	2.04	8.28	1.91
18.0	9.96	2.29	9.48	2.13	9.00	1.98	8.64	1.86	8.28	1.73

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

#### ■ Correction factor due to the indoor unit combination

##### ◆ Cooling

Indoor Unit	ATNW30GPLA0 [UT30 NP4]		ABNW30GM1A0 [UM30 N14]		UVNH30GJLA2 [UV30 NJ2]		AJNW30GVLA0 [UJ30 NV2]	
	TC	PI	TC	PI	TC	PI	TC	PI
Max.	1.10	1.26	1.10	1.22	1.05	1.28	1.06	1.16
Rated	1.00	1.00	0.98	0.97	0.95	1.01	0.98	0.92

##### ◆ Heating

Indoor Unit	ATNW30GPLA0 [UT30 NP4]		ABNW30GM1A0 [UM30 N14]		UVNH30GJLA2 [UV30 NJ2]		AJNW30GVLA0 [UJ30 NV2]	
	TC	PI	TC	PI	TC	PI	TC	PI
Max.	1.10	1.25	1.00	1.20	0.93	1.25	0.93	1.13
Rated	1.00	1.00	0.91	0.96	0.83	1.00	0.85	0.90

#### Note

Except for standard temperature condition, the capacity is not guaranteed.

## 6. Capacity Tables

### 6.6 AUUW366D2 [UU36W UO2]

#### ■ Cooling Capacity

##### ◆ ATNH36GNLE2 [UT36 NN2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	10.79	9.49	2.27	11.45	9.61	3.08	12.11	9.70	3.33	12.45	9.78	3.37	13.44	9.98	3.37	14.11	10.16	3.35
25.0	10.32	9.18	2.38	10.98	9.33	3.11	11.64	9.43	3.35	11.97	9.52	3.40	12.96	9.73	3.46	13.62	9.93	3.49
32.0	9.69	8.81	3.19	10.34	8.98	3.76	11.00	9.11	3.95	11.33	9.21	3.99	12.32	9.45	4.09	12.97	9.67	4.16
35.0	9.39	8.52	3.56	10.05	8.69	4.04	10.70	8.83	4.12	11.00	8.91	4.12	12.01	9.19	4.32	12.66	9.40	4.40
40.0	8.98	8.26	3.91	9.63	8.45	4.21	10.29	8.61	4.27	10.62	8.72	4.28	11.60	8.99	4.35	12.25	9.22	4.44
43.0	8.73	7.97	3.83	9.39	8.17	4.01	10.04	8.33	4.00	10.37	8.45	3.99	11.35	8.73	4.03	12.00	8.97	4.12
46.0	8.49	7.72	3.44	9.14	7.93	3.48	9.79	8.11	3.40	10.12	8.22	3.37	11.10	8.52	3.37	11.76	8.76	3.45

##### ◆ UVNH36GKLA2 [UV36 NK2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	10.30	8.50	2.42	10.93	8.61	3.28	11.56	8.69	3.55	11.88	8.76	3.59	12.83	8.94	3.59	13.46	9.10	3.57
25.0	9.85	8.22	2.53	10.48	8.35	3.31	11.11	8.44	3.57	11.42	8.52	3.62	12.37	8.72	3.68	13.00	8.89	3.72
32.0	9.25	7.89	3.40	9.87	8.04	4.00	10.50	8.16	4.20	10.82	8.25	4.25	11.76	8.47	4.35	12.38	8.66	4.43
35.0	8.96	7.63	3.79	9.59	7.79	4.30	10.21	7.91	4.38	10.50	7.98	4.38	11.46	8.23	4.59	12.09	8.42	4.69
40.0	8.57	7.39	4.16	9.20	7.57	4.48	9.82	7.71	4.55	10.13	7.81	4.56	11.07	8.06	4.63	11.69	8.26	4.73
43.0	8.34	7.13	4.08	8.96	7.32	4.27	9.58	7.46	4.26	9.90	7.57	4.25	10.83	7.82	4.29	11.46	8.03	4.39
46.0	8.10	6.91	3.66	8.72	7.11	3.70	9.35	7.26	3.62	9.66	7.37	3.58	10.60	7.63	3.58	11.22	7.84	3.67

##### ◆ ABNW36GM2A0 [UM36 N24]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	10.79	9.14	2.18	11.45	9.26	2.95	12.11	9.33	3.19	12.45	9.41	3.23	13.44	9.60	3.23	14.10	9.78	3.21
25.0	10.31	8.84	2.27	10.98	8.97	2.98	11.64	9.07	3.21	11.98	9.16	3.26	12.96	9.36	3.31	13.63	9.55	3.34
32.0	9.69	8.48	3.05	10.35	8.64	3.60	11.00	8.77	3.78	11.33	8.87	3.82	12.31	9.10	3.91	12.98	9.30	3.98
35.0	9.39	8.20	3.41	10.05	8.37	3.87	10.70	8.50	4.01	11.00	8.58	3.94	12.01	8.84	4.13	12.66	9.04	4.21
40.0	8.98	7.95	3.74	9.64	8.14	4.03	10.29	8.28	4.09	10.61	8.39	4.10	11.60	8.65	4.16	12.25	8.88	4.25
43.0	8.74	7.66	3.66	9.39	7.87	3.84	10.04	8.02	3.83	10.36	8.13	3.82	11.35	8.40	3.86	12.00	8.63	3.94
46.0	8.49	7.43	3.29	9.14	7.64	3.33	9.80	7.80	3.25	10.13	7.91	3.22	11.10	8.20	3.22	11.76	8.43	3.30

##### ◆ AJNW36GVLA1 [UJ36 NV3]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	10.30	7.83	2.21	10.93	7.93	3.00	11.56	8.00	3.24	11.88	8.07	3.28	12.83	8.23	3.28	13.46	8.38	3.26
25.0	9.85	7.58	2.31	10.48	7.69	3.02	11.11	7.78	3.26	11.42	7.85	3.30	12.37	8.03	3.36	13.00	8.19	3.39
32.0	9.25	7.27	3.10	9.87	7.41	3.66	10.50	7.51	3.84	10.82	7.60	3.88	11.76	7.80	3.97	12.38	7.97	4.05
35.0	8.96	7.02	3.46	9.59	7.17	3.93	10.21	7.28	4.00	10.50	7.35	4.00	11.46	7.58	4.19	12.09	7.76	4.28
40.0	8.57	6.81	3.80	9.20	6.97	4.09	9.82	7.10	4.15	10.13	7.19	4.16	11.07	7.42	4.23	11.69	7.61	4.32
43.0	8.34	6.57	3.72	8.96	6.74	3.89	9.58	6.87	3.89	9.90	6.97	3.88	10.83	7.20	3.92	11.46	7.40	4.00
46.0	8.10	6.37	3.34	8.72	6.54	3.38	9.35	6.69	3.30	9.66	6.78	3.27	10.60	7.03	3.27	11.22	7.22	3.35

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ■ Heating Capacity

#### ◆ ATNH36GNLE2 [UT36 NN2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	8.61	5.19	8.53	5.26	8.47	5.36	8.45	5.40	8.43	5.47	8.35	5.56
-10.0	9.19	5.28	9.18	5.41	9.18	5.54	9.18	5.62	9.18	5.71	9.09	5.78
-5.0	10.27	5.02	10.29	5.16	10.29	5.31	10.29	5.39	10.29	5.46	10.16	5.53
0.0	11.29	4.68	11.28	4.81	11.25	4.94	11.23	5.01	11.20	5.07	11.13	5.12
6.0	12.30	4.41	12.22	4.53	12.10	4.62	12.02	4.66	11.94	4.70	11.92	4.73
10.0	13.10	4.31	12.94	4.39	12.85	4.46	12.85	4.49	12.84	4.51	12.62	4.52
15.0	13.45	4.09	13.41	4.14	13.43	4.16	13.35	4.17	13.24	4.17	13.16	4.19

#### ◆ UVNH36GKLA2 [UV36 NK2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	8.25	5.25	8.18	5.33	8.12	5.42	8.10	5.47	8.08	5.53	8.01	5.63
-10.0	8.81	5.35	8.80	5.48	8.80	5.61	8.80	5.69	8.80	5.78	8.71	5.86
-5.0	9.85	5.08	9.86	5.23	9.86	5.38	9.86	5.45	9.86	5.53	9.74	5.60
0.0	10.83	4.74	10.82	4.87	10.79	5.00	10.77	5.07	10.73	5.13	10.67	5.18
6.0	11.79	4.47	11.71	4.58	11.60	4.68	11.53	4.72	11.44	4.76	11.43	4.79
10.0	12.56	4.36	12.40	4.45	12.32	4.51	12.32	4.54	12.31	4.57	12.10	4.58
15.0	12.90	4.14	12.85	4.19	12.88	4.21	12.80	4.22	12.69	4.22	12.62	4.24

#### ◆ ABNW36GM2A0 [UM36 N24]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	8.75	4.69	8.67	4.76	8.61	4.84	8.59	4.88	8.57	4.93	8.49	5.03
-10.0	9.34	4.77	9.33	4.88	9.33	5.00	9.33	5.08	9.33	5.15	9.23	5.22
-5.0	10.44	4.53	10.46	4.66	10.46	4.79	10.46	4.86	10.46	4.93	10.32	4.99
0.0	11.48	4.23	11.47	4.35	11.44	4.46	11.42	4.52	11.38	4.58	11.32	4.63
6.0	12.51	3.98	12.42	4.09	12.30	4.17	12.23	4.22	12.14	4.24	12.11	4.28
10.0	13.32	3.89	13.16	3.97	13.06	4.03	13.06	4.05	13.05	4.08	12.83	4.08
15.0	13.68	3.69	13.63	3.74	13.65	3.75	13.57	3.76	13.46	3.76	13.38	3.78

#### ◆ AJNW36GVLA1 [UJ36 NV3]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	8.65	3.71	8.56	3.76	8.50	3.83	8.48	3.87	8.47	3.91	8.36	4.01
-10.0	9.10	3.62	9.08	3.71	9.08	3.81	9.08	3.86	9.08	3.91	8.99	4.02
-5.0	9.86	3.79	9.87	3.90	9.88	4.01	9.88	4.06	9.87	4.12	9.75	4.24
0.0	10.53	4.07	10.53	4.18	10.50	4.30	10.48	4.35	10.45	4.40	10.36	4.51
6.0	11.69	4.35	11.61	4.46	11.50	4.55	11.43	4.59	11.34	4.63	11.25	4.71
10.0	12.35	4.53	12.20	4.62	12.12	4.69	12.12	4.72	12.10	4.75	11.90	4.79
15.0	13.40	4.83	13.36	4.88	13.39	4.91	13.30	4.92	13.19	4.92	13.04	4.95

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### 6.7 AUUW426D2 [UU41W U32]

#### ■ Cooling Capacity

##### ◆ ATNH42GMLE2 [UT42 NM2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	13.53	11.76	2.84	14.36	11.91	3.85	15.20	12.02	4.16	15.61	12.12	4.21	16.86	12.36	4.20	17.70	12.59	4.18
25.0	12.94	11.38	2.96	13.77	11.55	3.88	14.60	11.68	4.18	15.02	11.79	4.24	16.26	12.06	4.32	17.09	12.30	4.35
32.0	12.15	10.92	3.98	12.98	11.13	4.69	13.80	11.28	4.93	14.21	11.41	4.98	15.45	11.71	5.10	16.28	11.98	5.19
35.0	11.78	10.55	4.44	12.60	10.77	5.04	13.42	10.94	5.13	13.80	11.04	5.13	15.07	11.38	5.38	15.89	11.65	5.49
40.0	11.27	10.23	4.87	12.09	10.47	5.25	12.91	10.66	5.33	13.32	10.80	5.34	14.55	11.14	5.42	15.37	11.43	5.54
43.0	10.96	9.87	4.78	11.78	10.13	5.00	12.60	10.33	4.99	13.01	10.47	4.98	14.24	10.82	5.03	15.06	11.11	5.14
46.0	10.65	9.56	4.29	11.47	9.83	4.34	12.29	10.04	4.24	12.70	10.19	4.20	13.93	10.56	4.20	14.75	10.85	4.30

##### ◆ UVNH42GLLA2 [UV42 NL2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	13.53	11.03	2.92	14.36	11.17	3.95	15.20	11.27	4.28	15.61	11.37	4.32	16.86	11.60	4.32	17.70	11.81	4.30
25.0	12.94	10.67	3.05	13.77	10.84	3.99	14.60	10.95	4.30	15.02	11.06	4.36	16.26	11.31	4.44	17.09	11.54	4.48
32.0	12.15	10.24	4.09	12.98	10.44	4.82	13.80	10.58	5.07	14.21	10.70	5.12	15.45	10.99	5.24	16.28	11.23	5.34
35.0	11.78	9.90	4.56	12.60	10.10	5.18	13.42	10.26	5.28	13.80	10.36	5.28	15.07	10.68	5.53	15.89	10.93	5.65
40.0	11.27	9.60	5.01	12.09	9.82	5.40	12.91	10.00	5.48	13.32	10.13	5.49	14.55	10.45	5.58	15.37	10.72	5.70
43.0	10.96	9.26	4.91	11.78	9.50	5.14	12.60	9.69	5.13	13.01	9.82	5.12	14.24	10.15	5.17	15.06	10.42	5.29
46.0	10.65	8.97	4.41	11.47	9.22	4.46	12.29	9.42	4.36	12.70	9.56	4.31	13.93	9.90	4.32	14.75	10.18	4.42

##### ◆ ABNW42GM2A0 [UM42 N24]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	12.95	11.25	2.46	13.74	11.39	3.34	14.54	11.48	3.61	14.94	11.58	3.65	16.13	11.82	3.65	16.92	12.04	3.63
25.0	12.38	10.88	2.57	13.17	11.04	3.37	13.97	11.16	3.63	14.37	11.28	3.68	15.56	11.53	3.75	16.35	11.76	3.78
32.0	11.63	10.44	3.46	12.42	10.63	4.08	13.20	10.79	4.28	13.59	10.91	4.33	14.78	11.20	4.43	15.57	11.45	4.51
35.0	11.27	10.09	3.86	12.06	10.30	4.38	12.84	10.46	4.54	13.20	10.56	4.46	14.42	10.88	4.68	15.20	11.13	4.77
40.0	10.77	9.78	4.23	11.57	10.02	4.56	12.35	10.19	4.63	12.74	10.33	4.64	13.92	10.65	4.71	14.70	10.93	4.81
43.0	10.49	9.43	4.15	11.27	9.68	4.34	12.05	9.87	4.33	12.44	10.00	4.33	13.62	10.34	4.37	14.40	10.62	4.47
46.0	10.19	9.14	3.72	10.97	9.40	3.77	11.76	9.59	3.68	12.15	9.74	3.64	13.32	10.09	3.65	14.12	10.37	3.73

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ◆ 1Ø Synchro Equivalent capacity table

Max Power input of each model is tabulated below

(Duo)

Model	CT24 NP2(4) * 2	CM24 N14 * 2	CV24 NJ2 * 2	CB24L N32 * 2
PI	4.60	4.60	4.60	4.60

(Trio)

Model	CT18 NQ2(4) * 3	CM18 N14 * 3	CV18 NJ2 * 3	CB18L N22 * 3
PI	5.20	5.20	5.20	5.20

(Quartet)

Model	CT12 NR2 * 4	CB12L N22 * 4
PI	4.82	4.82

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ■ Heating Capacity

#### ◆ ATNH42GMLE2 [UT42 NM2]

Outdoor Air Temp. °CWB	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	10.96	6.21	10.86	6.31	10.78	6.42	10.75	6.48	10.73	6.55	10.63	6.66
-10.0	11.70	6.33	11.68	6.48	11.68	6.64	11.68	6.74	11.68	6.84	11.56	6.93
-5.0	13.07	6.01	13.09	6.19	13.09	6.36	13.09	6.45	13.09	6.54	12.93	6.63
0.0	14.37	5.61	14.36	5.77	14.32	5.92	14.29	6.00	14.25	6.08	14.17	6.13
6.0	15.66	5.29	15.55	5.43	15.40	5.53	15.30	5.59	15.19	5.63	15.17	5.67
10.0	16.68	5.16	16.47	5.26	16.36	5.34	16.36	5.38	16.34	5.40	16.07	5.42
15.0	17.12	4.90	17.07	4.96	17.09	4.98	16.99	4.99	16.85	4.99	16.75	5.01

#### ◆ UVNH42GLLA2 [UV42 NL2]

Outdoor Air Temp. °CWB	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	10.96	6.39	10.86	6.49	10.78	6.60	10.75	6.66	10.73	6.74	10.63	6.85
-10.0	11.70	6.51	11.68	6.67	11.68	6.83	11.68	6.93	11.68	7.03	11.56	7.13
-5.0	13.07	6.18	13.09	6.36	13.09	6.55	13.09	6.64	13.09	6.73	12.93	6.81
0.0	14.37	5.77	14.36	5.93	14.32	6.09	14.29	6.17	14.25	6.25	14.17	6.31
6.0	15.66	5.44	15.55	5.58	15.40	5.69	15.30	5.75	15.19	5.79	15.17	5.83
10.0	16.68	5.31	16.47	5.41	16.36	5.49	16.36	5.53	16.34	5.56	16.07	5.57
15.0	17.12	5.04	17.07	5.10	17.09	5.12	16.99	5.13	16.85	5.13	16.75	5.16

#### ◆ ABNW42GM2A0 [UM42 N24]

Outdoor Air Temp. °CWB	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	10.67	5.34	10.58	5.42	10.50	5.51	10.47	5.56	10.45	5.62	10.35	5.72
-10.0	11.39	5.43	11.38	5.56	11.38	5.70	11.38	5.79	11.38	5.87	11.26	5.95
-5.0	12.73	5.16	12.76	5.31	12.76	5.46	12.76	5.54	12.76	5.62	12.59	5.68
0.0	14.00	4.82	13.98	4.95	13.95	5.08	13.92	5.15	13.88	5.22	13.80	5.27
6.0	15.26	4.54	15.15	4.66	15.00	4.75	14.91	4.80	14.80	4.83	14.77	4.87
10.0	16.24	4.43	16.05	4.52	15.92	4.59	15.92	4.62	15.91	4.64	15.65	4.64
15.0	16.68	4.20	16.62	4.26	16.65	4.27	16.55	4.28	16.41	4.28	16.32	4.31

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.



## 6. Capacity Tables

### ◆ 1Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	CT24 NP2(4) * 2	CM24 N14 * 2	CV24 NJ2 * 2	CB24L N32 * 2
PI	4.60	4.60	4.60	4.60

(Trio)

Model	CT18 NQ2(4) * 3	CM18 N14 * 3	CV18 NJ2 * 3	CB18L N22 * 3
PI	5.20	5.20	5.20	5.20

(Quartet)

Model	CT12 NR2 * 4	CB12L N22 * 4
PI	4.82	4.82

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### 6.8 AUUW486D2 [UU48W U32]

#### ■ Cooling Capacity

##### ◆ ATNH48GMLE2 [UT48 NM2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	15.39	12.87	3.36	16.34	13.04	4.56	17.29	13.15	4.93	17.76	13.27	4.98	19.19	13.53	4.98	20.13	13.79	4.95
25.0	14.72	12.46	3.51	15.67	12.65	4.60	16.61	12.78	4.96	17.08	12.91	5.03	18.50	13.20	5.11	19.44	13.47	5.16
32.0	13.83	11.95	4.71	14.76	12.18	5.56	15.70	12.35	5.84	16.17	12.49	5.90	17.58	12.82	6.04	18.52	13.11	6.15
35.0	13.40	11.55	5.26	14.34	11.79	5.97	15.27	11.97	6.09	15.70	12.09	6.09	17.14	12.46	6.38	18.07	12.75	6.51
40.0	12.82	11.20	5.78	13.75	11.47	6.22	14.68	11.67	6.31	15.15	11.83	6.33	16.55	12.20	6.43	17.49	12.51	6.57
43.0	12.46	10.80	5.66	13.40	11.08	5.92	14.33	11.30	5.91	14.80	11.46	5.90	16.20	11.85	5.96	17.13	12.16	6.09
46.0	12.11	10.47	5.08	13.05	10.76	5.14	13.98	10.99	5.02	14.45	11.16	4.97	15.85	11.56	4.97	16.78	11.88	5.09

##### ◆ UVNH48GLLA2 [UV48 NL2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	14.32	11.51	3.21	15.20	11.66	4.36	16.08	11.76	4.71	16.52	11.86	4.77	17.84	12.10	4.77	18.72	12.32	4.74
25.0	13.69	11.13	3.36	14.57	11.31	4.40	15.45	11.43	4.74	15.89	11.54	4.81	17.20	11.80	4.89	18.08	12.04	4.94
32.0	12.86	10.68	4.51	13.73	10.89	5.32	14.60	11.04	5.58	15.04	11.16	5.65	16.35	11.46	5.78	17.22	11.72	5.89
35.0	12.46	10.32	5.03	13.33	10.54	5.71	14.20	10.70	5.82	14.60	10.80	5.82	15.94	11.14	6.10	16.81	11.40	6.23
40.0	11.92	10.01	5.53	12.79	10.25	5.95	13.66	10.43	6.04	14.09	10.57	6.05	15.39	10.90	6.15	16.26	11.18	6.28
43.0	11.59	9.66	5.41	12.46	9.91	5.67	13.33	10.10	5.66	13.76	10.24	5.65	15.06	10.59	5.70	15.93	10.87	5.83
46.0	11.26	9.36	4.86	12.13	9.62	4.92	13.00	9.83	4.80	13.43	9.97	4.76	14.74	10.33	4.76	15.60	10.62	4.87

##### ◆ ABNW48GM3A0 [UM48 N34]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	15.10	13.45	3.31	16.03	13.63	4.34	16.96	13.74	4.70	17.42	13.87	4.75	18.82	14.14	4.75	19.75	14.40	4.84
25.0	14.44	13.02	4.03	15.37	13.22	4.60	16.29	13.36	4.72	16.76	13.49	4.79	18.14	13.79	4.87	19.07	14.07	4.92
32.0	13.56	12.49	4.61	14.48	12.73	5.30	15.40	12.91	5.56	15.86	13.05	5.63	17.24	13.40	5.76	18.16	13.70	5.87
35.0	13.15	12.07	5.01	14.06	12.32	5.69	14.98	12.51	5.90	15.40	12.63	5.95	16.81	13.02	6.08	17.73	13.32	6.20
40.0	12.57	11.70	5.51	13.49	11.98	5.93	14.40	12.20	6.02	14.86	12.36	6.03	16.24	12.75	6.13	17.15	13.07	6.26
43.0	12.23	11.29	5.53	13.14	11.58	5.79	14.06	11.81	5.78	14.52	11.97	5.77	15.89	12.38	5.83	16.81	12.71	5.96
46.0	11.88	10.94	4.84	12.80	11.24	4.90	13.71	11.49	4.91	14.17	11.66	4.86	15.54	12.07	4.86	16.46	12.41	4.98

##### ◆ APNH48GTLA0 [UP48 NT2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	14.94	11.63	2.61	15.86	11.79	3.54	16.77	11.88	3.83	17.24	11.99	3.86	18.61	12.24	3.86	19.54	12.45	3.84
25.0	14.28	11.26	2.73	15.19	11.44	3.56	16.11	11.55	3.84	16.58	11.67	3.89	17.94	11.94	3.98	18.86	12.17	4.01
32.0	13.42	10.80	3.66	14.32	11.01	4.31	15.23	11.16	4.52	15.68	11.30	4.57	17.05	11.58	4.69	17.96	11.85	4.77
35.0	13.01	10.44	4.07	13.91	10.66	4.64	14.82	10.82	4.72	15.20	10.90	4.70	16.64	11.26	4.96	17.53	11.53	5.04
40.0	12.44	10.12	4.47	13.34	10.36	4.82	14.24	10.55	4.89	14.71	10.69	4.91	16.05	11.03	4.99	16.97	11.32	5.09
43.0	12.09	9.77	4.39	12.99	10.02	4.59	13.91	10.21	4.59	14.35	10.36	4.57	15.72	10.71	4.62	16.62	11.00	4.72
46.0	11.74	9.47	3.94	12.66	9.73	3.99	13.55	9.93	3.89	14.02	10.09	3.86	15.37	10.44	3.86	16.29	10.73	3.96

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ◆ 1Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	CT24 NP2(4) * 2	CM24 N14 * 2	CV24 NJ2 * 2	CB24L N32 * 2
PI	5.06	5.06	5.06	5.06

(Trio)

Model	CT18 NQ2(4) * 3	CM18 N14 * 3	CV18 NJ2 * 3	CB18L N22 * 3
PI	5.72	5.72	5.72	5.72

(Quartet)

Model	CT12 NR2 * 4	CB12L N22 * 4
PI	4.82	4.82

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ■ Heating Capacity

#### ◆ ATNH48GMLE2 [UT48 NM2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	12.52	7.29	12.41	7.40	12.32	7.53	12.29	7.60	12.27	7.68	12.15	7.81
-10.0	13.37	7.42	13.35	7.61	13.35	7.79	13.35	7.91	13.35	8.02	13.22	8.13
-5.0	14.94	7.05	14.96	7.26	14.96	7.47	14.96	7.57	14.96	7.67	14.78	7.77
0.0	16.43	6.58	16.41	6.77	16.37	6.95	16.33	7.04	16.29	7.13	16.19	7.20
6.0	17.90	6.21	17.77	6.36	17.60	6.49	17.49	6.56	17.36	6.60	17.34	6.65
10.0	19.06	6.06	18.82	6.18	18.69	6.26	18.69	6.31	18.67	6.34	18.36	6.35
15.0	19.57	5.75	19.50	5.82	19.54	5.84	19.42	5.86	19.25	5.86	19.14	5.88

#### ◆ UVNH48GLLA2 [UV48 NL2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	12.52	6.39	12.41	6.49	12.32	6.60	12.29	6.66	12.27	6.74	12.15	6.85
-10.0	13.37	6.51	13.35	6.67	13.35	6.83	13.35	6.93	13.35	7.03	13.22	7.13
-5.0	14.94	6.18	14.96	6.36	14.96	6.55	14.96	6.64	14.96	6.73	14.78	6.81
0.0	16.43	5.77	16.41	5.93	16.37	6.09	16.33	6.17	16.29	6.25	16.19	6.31
6.0	17.90	5.44	17.77	5.58	17.60	5.69	17.49	5.75	17.36	5.79	17.34	5.83
10.0	19.06	5.31	18.82	5.41	18.69	5.49	18.69	5.53	18.67	5.56	18.36	5.57
15.0	19.57	5.04	19.50	5.10	19.54	5.12	19.42	5.13	19.25	5.13	19.14	5.16

#### ◆ ABNW48GM3A0 [UM48 N34]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	13.68	5.33	13.55	5.41	13.45	5.51	13.42	5.56	13.40	5.63	13.24	5.76
-10.0	14.40	5.20	14.38	5.33	14.37	5.47	14.37	5.54	14.37	5.62	14.24	5.78
-5.0	15.61	5.44	15.62	5.60	15.63	5.76	15.63	5.84	15.63	5.92	15.44	6.09
0.0	16.67	5.85	16.66	6.02	16.62	6.18	16.58	6.25	16.53	6.33	16.40	6.48
6.0	18.50	6.26	18.38	6.41	18.20	6.54	18.09	6.60	17.95	6.66	17.81	6.77
10.0	19.55	6.51	19.31	6.64	19.18	6.74	19.18	6.78	19.15	6.82	18.83	6.88
15.0	21.21	6.94	21.15	7.01	21.19	7.06	21.05	7.07	20.87	7.07	20.63	7.12

#### ◆ APNH48GTLA0 [UP48 NT2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	12.14	5.81	12.04	5.91	11.95	6.01	11.92	6.06	11.90	6.13	11.79	6.23
-10.0	12.97	5.92	12.95	6.07	12.95	6.22	12.95	6.31	12.95	6.40	12.82	6.49
-5.0	14.49	5.62	14.51	5.79	14.51	5.96	14.51	6.04	14.51	6.12	14.34	6.20
0.0	15.94	5.25	15.92	5.40	15.88	5.54	15.84	5.61	15.80	5.69	15.70	5.74
6.0	17.36	4.95	17.24	5.08	17.10	5.20	16.97	5.23	16.84	5.27	16.82	5.31
10.0	18.49	4.83	18.26	4.92	18.13	5.00	18.13	5.03	18.11	5.06	17.81	5.07
15.0	18.98	4.59	18.92	4.64	18.95	4.66	18.84	4.67	18.67	4.67	18.57	4.70

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ◆ 1Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	CT24 NP2(4) * 2	CM24 N14 * 2	CV24 NJ2 * 2	CB24L N32 * 2
PI	5.06	5.06	5.06	5.06

(Trio)

Model	CT18 NQ2(4) * 3	CM18 N14 * 3	CV18 NJ2 * 3	CB18L N22 * 3
PI	5.50	5.50	5.50	5.50

(Quartet)

Model	CT12 NR2 * 4	CB12L N22 * 4
PI	4.89	4.89

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### 6.9 AUUW606D2 [UU60W U32]

#### ■ Cooling Capacity

##### ◆ ATNH60GMLE2 [UT60 NM2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	15.98	12.76	4.10	16.97	12.92	5.57	17.95	13.03	6.02	18.44	13.15	6.09	19.92	13.41	6.09	20.90	13.66	6.05
25.0	15.29	12.34	4.29	16.27	12.53	5.61	17.25	12.67	6.05	17.74	12.79	6.14	19.20	13.08	6.25	20.18	13.34	6.30
32.0	14.35	11.84	5.76	15.33	12.07	6.79	16.30	12.24	7.13	16.79	12.38	7.21	18.25	12.71	7.38	19.23	12.99	7.52
35.0	13.92	11.44	6.42	14.89	11.68	7.29	15.86	11.86	7.43	16.30	11.98	7.43	17.79	12.35	7.79	18.76	12.64	7.95
40.0	13.31	11.10	7.06	14.28	11.36	7.60	15.25	11.57	7.71	15.73	11.72	7.73	17.18	12.09	7.85	18.15	12.40	8.02
43.0	12.94	10.71	6.91	13.91	10.98	7.23	14.88	11.20	7.22	15.36	11.36	7.21	16.82	11.74	7.28	17.79	12.05	7.44
46.0	12.57	10.37	6.20	13.54	10.66	6.28	14.51	10.89	6.13	15.00	11.05	6.07	16.45	11.45	6.08	17.42	11.77	6.22

##### ◆ UVNH60GLLA2 [UV60 NL2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	15.39	11.96	3.86	16.34	12.12	5.24	17.29	12.22	5.66	17.76	12.33	5.73	19.19	12.58	5.73	20.13	12.81	5.70
25.0	14.72	11.57	4.04	15.67	11.75	5.29	16.61	11.88	5.70	17.08	12.00	5.78	18.50	12.27	5.88	19.44	12.51	5.93
32.0	13.83	11.11	5.42	14.76	11.32	6.39	15.70	11.48	6.71	16.17	11.61	6.79	17.58	11.91	6.95	18.52	12.18	7.07
35.0	13.40	10.73	6.05	14.34	10.96	6.87	15.27	11.13	7.00	15.70	11.23	7.00	17.14	11.58	7.33	18.07	11.85	7.48
40.0	12.82	10.41	6.64	13.75	10.65	7.16	14.68	10.85	7.26	15.15	10.99	7.28	16.55	11.34	7.39	17.49	11.62	7.55
43.0	12.46	10.04	6.51	13.40	10.30	6.81	14.33	10.50	6.80	14.80	10.65	6.79	16.20	11.01	6.85	17.13	11.30	7.00
46.0	12.11	9.73	5.84	13.05	10.00	5.91	13.98	10.22	5.77	14.45	10.37	5.72	15.85	10.74	5.72	16.78	11.04	5.86

##### ◆ ABNW60GM3A0 [UM60 N34]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	15.98	14.41	3.63	16.97	14.60	4.75	17.95	14.73	5.14	18.44	14.85	5.20	19.92	15.15	5.20	20.90	15.43	5.30
25.0	15.29	13.94	4.41	16.27	14.16	5.03	17.25	14.31	5.17	17.74	14.45	5.24	19.20	14.78	5.33	20.18	15.07	5.38
32.0	14.35	13.38	5.04	15.33	13.64	5.80	16.30	13.83	6.09	16.79	13.98	6.16	18.25	14.35	6.30	19.23	14.68	6.42
35.0	13.92	12.93	5.49	14.89	13.20	6.23	15.86	13.40	6.46	16.30	13.53	6.51	17.79	13.95	6.65	18.76	14.28	6.79
40.0	13.31	12.54	6.02	14.28	12.84	6.49	15.25	13.07	6.58	15.73	13.24	6.60	17.18	13.66	6.70	18.15	14.00	6.85
43.0	12.94	12.10	6.05	13.91	12.41	6.34	14.88	12.65	6.33	15.36	12.83	6.31	16.82	13.26	6.38	17.79	13.61	6.52
46.0	12.57	11.72	5.30	13.54	12.05	5.36	14.51	12.31	5.37	15.00	12.49	5.32	16.45	12.94	5.32	17.42	13.30	5.45

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ◆ 1Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	UT30 NP2(4) * 2	UM30 N14 * 2	UV30 NJ2 * 2
PI	5.80	5.80	5.80

(Trio)

Model	CT18 NQ2(4) * 3	CM18 N14 * 3	CV18 NJ2 * 3	CB18L N22 * 3
PI	5.20	5.20	5.20	5.20

(Quartet)

Model	CT12 NR2 * 4	CB12L N22 * 4
PI	4.82	4.82

**Note**

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ■ Heating Capacity

#### ◆ ATNH60GMLE2 [UT60 NM2]

Outdoor Air Temp. °CWB	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	13.31	8.83	13.18	8.96	13.09	9.12	13.06	9.20	13.03	9.31	12.91	9.47
-10.0	14.20	8.99	14.18	9.22	14.18	9.44	14.18	9.58	14.18	9.72	14.04	9.85
-5.0	15.87	8.54	15.90	8.79	15.90	9.04	15.90	9.17	15.90	9.30	15.70	9.42
0.0	17.45	7.98	17.44	8.20	17.39	8.42	17.35	8.53	17.30	8.63	17.21	8.72
6.0	19.01	7.52	18.88	7.71	18.70	7.87	18.58	7.94	18.45	8.00	18.42	8.06
10.0	20.25	7.34	20.00	7.48	19.86	7.59	19.86	7.64	19.84	7.68	19.51	7.70
15.0	20.79	6.97	20.72	7.05	20.76	7.08	20.63	7.09	20.46	7.09	20.34	7.13

#### ◆ UVNH60GLLA2 [UV60 NL2]

Outdoor Air Temp. °CWB	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	13.31	8.83	13.18	8.96	13.09	9.12	13.06	9.20	13.03	9.31	12.91	9.47
-10.0	14.20	8.99	14.18	9.22	14.18	9.44	14.18	9.58	14.18	9.72	14.04	9.85
-5.0	15.87	8.54	15.90	8.79	15.90	9.04	15.90	9.17	15.90	9.30	15.70	9.42
0.0	17.45	7.98	17.44	8.20	17.39	8.42	17.35	8.53	17.30	8.63	17.21	8.72
6.0	19.01	7.52	18.88	7.71	18.70	7.87	18.58	7.94	18.45	8.00	18.42	8.06
10.0	20.25	7.34	20.00	7.48	19.86	7.59	19.86	7.64	19.84	7.68	19.51	7.70
15.0	20.79	6.97	20.72	7.05	20.76	7.08	20.63	7.09	20.46	7.09	20.34	7.13

#### ◆ ABNW60GM3A0 [UM60 N34]

Outdoor Air Temp. °CWB	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	14.06	5.45	13.92	5.54	13.82	5.64	13.79	5.69	13.77	5.75	13.60	5.89
-10.0	14.79	5.32	14.77	5.45	14.76	5.60	14.77	5.67	14.77	5.75	14.63	5.92
-5.0	16.03	5.57	16.05	5.73	16.06	5.89	16.06	5.98	16.05	6.06	15.86	6.23
0.0	17.13	5.98	17.12	6.15	17.07	6.32	17.04	6.40	16.99	6.48	16.85	6.63
6.0	19.01	6.40	18.88	6.55	18.70	6.69	18.58	6.75	18.45	6.81	18.30	6.92
10.0	20.09	6.66	19.84	6.79	19.70	6.89	19.70	6.94	19.68	6.98	19.35	7.04
15.0	21.80	7.10	21.73	7.18	21.77	7.22	21.63	7.23	21.45	7.23	21.20	7.28

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.



## 6. Capacity Tables

### ◆ 1Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	UT30 NP2(4) * 2	UM30 N14 * 2	UV30 NJ2 * 2
PI	5.70	5.70	5.70

(Trio)

Model	CT18 NQ2(4) * 3	CM18 N14 * 3	CV18 NJ2 * 3	CB18L N22 * 3
PI	5.00	5.00	5.00	5.00

(Quartet)

Model	CT12 NR2 * 4	CB12L N22 * 4
PI	4.82	4.82

**Note**

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### 6.10 AUUW368D2 [UU37W UO2]

#### ■ Cooling Capacity

##### ◆ ATNH36GNLE2 [UT36 NN2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	10.79	9.49	2.27	11.45	9.61	3.08	12.11	9.70	3.33	12.45	9.78	3.37	13.44	9.98	3.37	14.11	10.16	3.35
25.0	10.32	9.18	2.38	10.98	9.33	3.11	11.64	9.43	3.35	11.97	9.52	3.40	12.96	9.73	3.46	13.62	9.93	3.49
32.0	9.69	8.81	3.19	10.34	8.98	3.76	11.00	9.11	3.95	11.33	9.21	3.99	12.32	9.45	4.09	12.97	9.67	4.16
35.0	9.39	8.52	3.56	10.05	8.69	4.04	10.70	8.83	4.12	11.00	8.91	4.12	12.01	9.19	4.32	12.66	9.40	4.40
40.0	8.98	8.26	3.91	9.63	8.45	4.21	10.29	8.61	4.27	10.62	8.72	4.28	11.60	8.99	4.35	12.25	9.22	4.44
43.0	8.73	7.97	3.83	9.39	8.17	4.01	10.04	8.33	4.00	10.37	8.45	3.99	11.35	8.73	4.03	12.00	8.97	4.12
46.0	8.49	7.72	3.44	9.14	7.93	3.48	9.79	8.11	3.40	10.12	8.22	3.37	11.10	8.52	3.37	11.76	8.76	3.45

##### ◆ UVNH36GKLA2 [UV36 NK2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	10.30	8.50	2.42	10.93	8.61	3.28	11.56	8.69	3.55	11.88	8.76	3.59	12.83	8.94	3.59	13.46	9.10	3.57
25.0	9.85	8.22	2.53	10.48	8.35	3.31	11.11	8.44	3.57	11.42	8.52	3.62	12.37	8.72	3.68	13.00	8.89	3.72
32.0	9.25	7.89	3.40	9.87	8.04	4.00	10.50	8.16	4.20	10.82	8.25	4.25	11.76	8.47	4.35	12.38	8.66	4.43
35.0	8.96	7.63	3.79	9.59	7.79	4.30	10.21	7.91	4.38	10.50	7.98	4.38	11.46	8.23	4.59	12.09	8.42	4.69
40.0	8.57	7.39	4.16	9.20	7.57	4.48	9.82	7.71	4.55	10.13	7.81	4.56	11.07	8.06	4.63	11.69	8.26	4.73
43.0	8.34	7.13	4.08	8.96	7.32	4.27	9.58	7.46	4.26	9.90	7.57	4.25	10.83	7.82	4.29	11.46	8.03	4.39
46.0	8.10	6.91	3.66	8.72	7.11	3.70	9.35	7.26	3.62	9.66	7.37	3.58	10.60	7.63	3.58	11.22	7.84	3.67

##### ◆ ABNW36GM2A0 [UM36 N24]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	10.79	9.14	2.18	11.45	9.26	2.95	12.11	9.33	3.19	12.45	9.41	3.23	13.44	9.60	3.23	14.10	9.78	3.21
25.0	10.31	8.84	2.27	10.98	8.97	2.98	11.64	9.07	3.21	11.98	9.16	3.26	12.96	9.36	3.31	13.63	9.55	3.34
32.0	9.69	8.48	3.05	10.35	8.64	3.60	11.00	8.77	3.78	11.33	8.87	3.82	12.31	9.10	3.91	12.98	9.30	3.98
35.0	9.39	8.20	3.41	10.05	8.37	3.87	10.70	8.50	4.01	11.00	8.58	3.94	12.01	8.84	4.13	12.66	9.04	4.21
40.0	8.98	7.95	3.74	9.64	8.14	4.03	10.29	8.28	4.09	10.61	8.39	4.10	11.60	8.65	4.16	12.25	8.88	4.25
43.0	8.74	7.66	3.66	9.39	7.87	3.84	10.04	8.02	3.83	10.36	8.13	3.82	11.35	8.40	3.86	12.00	8.63	3.94
46.0	8.49	7.43	3.29	9.14	7.64	3.33	9.80	7.80	3.25	10.13	7.91	3.22	11.10	8.20	3.22	11.76	8.43	3.30

##### ◆ AJNW36GVLA1 [UJ36 NV3]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	10.30	7.83	2.21	10.93	7.93	3.00	11.56	8.00	3.24	11.88	8.07	3.28	12.83	8.23	3.28	13.46	8.38	3.26
25.0	9.85	7.58	2.31	10.48	7.69	3.02	11.11	7.78	3.26	11.42	7.85	3.30	12.37	8.03	3.36	13.00	8.19	3.39
32.0	9.25	7.27	3.10	9.87	7.41	3.66	10.50	7.51	3.84	10.82	7.60	3.88	11.76	7.80	3.97	12.38	7.97	4.05
35.0	8.96	7.02	3.46	9.59	7.17	3.93	10.21	7.28	4.00	10.50	7.35	4.00	11.46	7.58	4.19	12.09	7.76	4.28
40.0	8.57	6.81	3.80	9.20	6.97	4.09	9.82	7.10	4.15	10.13	7.19	4.16	11.07	7.42	4.23	11.69	7.61	4.32
43.0	8.34	6.57	3.72	8.96	6.74	3.89	9.58	6.87	3.89	9.90	6.97	3.88	10.83	7.20	3.92	11.46	7.40	4.00
46.0	8.10	6.37	3.34	8.72	6.54	3.38	9.35	6.69	3.30	9.66	6.78	3.27	10.60	7.03	3.27	11.22	7.22	3.35

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ■ Heating Capacity

#### ◆ ATNH36GNLE2 [UT36 NN2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	8.61	5.19	8.53	5.26	8.47	5.36	8.45	5.40	8.43	5.47	8.35	5.56
-10.0	9.19	5.28	9.18	5.41	9.18	5.54	9.18	5.62	9.18	5.71	9.09	5.78
-5.0	10.27	5.02	10.29	5.16	10.29	5.31	10.29	5.39	10.29	5.46	10.16	5.53
0.0	11.29	4.68	11.28	4.81	11.25	4.94	11.23	5.01	11.20	5.07	11.13	5.12
6.0	12.30	4.41	12.22	4.53	12.10	4.62	12.02	4.66	11.94	4.70	11.92	4.73
10.0	13.10	4.31	12.94	4.39	12.85	4.46	12.85	4.49	12.84	4.51	12.62	4.52
15.0	13.45	4.09	13.41	4.14	13.43	4.16	13.35	4.17	13.24	4.17	13.16	4.19

#### ◆ UVNH36GKLA2 [UV36 NK2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	8.25	5.25	8.18	5.33	8.12	5.42	8.10	5.47	8.08	5.53	8.01	5.63
-10.0	8.81	5.35	8.80	5.48	8.80	5.61	8.80	5.69	8.80	5.78	8.71	5.86
-5.0	9.85	5.08	9.86	5.23	9.86	5.38	9.86	5.45	9.86	5.53	9.74	5.60
0.0	10.83	4.74	10.82	4.87	10.79	5.00	10.77	5.07	10.73	5.13	10.67	5.18
6.0	11.79	4.47	11.71	4.58	11.60	4.68	11.53	4.72	11.44	4.76	11.43	4.79
10.0	12.56	4.36	12.40	4.45	12.32	4.51	12.32	4.54	12.31	4.57	12.10	4.58
15.0	12.90	4.14	12.85	4.19	12.88	4.21	12.80	4.22	12.69	4.22	12.62	4.24

#### ◆ ABNW36GM2A0 [UM36 N24]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	8.75	4.69	8.67	4.76	8.61	4.84	8.59	4.88	8.57	4.93	8.49	5.03
-10.0	9.34	4.77	9.33	4.88	9.33	5.00	9.33	5.08	9.33	5.15	9.23	5.22
-5.0	10.44	4.53	10.46	4.66	10.46	4.79	10.46	4.86	10.46	4.93	10.32	4.99
0.0	11.48	4.23	11.47	4.35	11.44	4.46	11.42	4.52	11.38	4.58	11.32	4.63
6.0	12.51	3.98	12.42	4.09	12.30	4.17	12.23	4.22	12.14	4.24	12.11	4.28
10.0	13.32	3.89	13.16	3.97	13.06	4.03	13.06	4.05	13.05	4.08	12.83	4.08
15.0	13.68	3.69	13.63	3.74	13.65	3.75	13.57	3.76	13.46	3.76	13.38	3.78

#### ◆ AJNW36GVLA1 [UJ36 NV3]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	8.65	3.71	8.56	3.76	8.50	3.83	8.48	3.87	8.47	3.91	8.36	4.01
-10.0	9.10	3.62	9.08	3.71	9.08	3.81	9.08	3.86	9.08	3.91	8.99	4.02
-5.0	9.86	3.79	9.87	3.90	9.88	4.01	9.88	4.06	9.87	4.12	9.75	4.24
0.0	10.53	4.07	10.53	4.18	10.50	4.30	10.48	4.35	10.45	4.40	10.36	4.51
6.0	11.69	4.35	11.61	4.46	11.50	4.55	11.43	4.59	11.34	4.63	11.25	4.71
10.0	12.35	4.53	12.20	4.62	12.12	4.69	12.12	4.72	12.10	4.75	11.90	4.79
15.0	13.40	4.83	13.36	4.88	13.39	4.91	13.30	4.92	13.19	4.92	13.04	4.95

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### 6.11 AUUW428D2 [UU43W U32]

#### ■ Cooling Capacity

##### ◆ ATNH42GMLE2 [UT42 NM2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	13.53	11.70	2.84	14.36	11.85	3.85	15.20	11.96	4.16	15.61	12.06	4.21	16.86	12.30	4.20	17.70	12.53	4.18
25.0	12.94	11.32	2.96	13.77	11.50	3.88	14.60	11.62	4.18	15.02	11.73	4.24	16.26	12.00	4.32	17.09	12.24	4.35
32.0	12.15	10.86	3.98	12.98	11.07	4.69	13.80	11.23	4.93	14.21	11.35	4.98	15.45	11.65	5.10	16.28	11.92	5.19
35.0	11.78	10.50	4.44	12.60	10.72	5.04	13.42	10.88	5.13	13.80	10.98	5.13	15.07	11.32	5.38	15.89	11.59	5.49
40.0	11.27	10.18	4.87	12.09	10.42	5.25	12.91	10.61	5.33	13.32	10.75	5.34	14.55	11.09	5.42	15.37	11.37	5.54
43.0	10.96	9.82	4.78	11.78	10.07	5.00	12.60	10.27	4.99	13.01	10.42	4.98	14.24	10.77	5.03	15.06	11.05	5.14
46.0	10.65	9.52	4.29	11.47	9.78	4.34	12.29	9.99	4.24	12.70	10.14	4.20	13.93	10.50	4.20	14.75	10.80	4.30

##### ◆ UVNH42GLLA2 [UV42 NL2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	13.53	11.03	2.92	14.36	11.17	3.95	15.20	11.27	4.28	15.61	11.37	4.32	16.86	11.60	4.32	17.70	11.81	4.30
25.0	12.94	10.67	3.05	13.77	10.84	3.99	14.60	10.95	4.30	15.02	11.06	4.36	16.26	11.31	4.44	17.09	11.54	4.48
32.0	12.15	10.24	4.09	12.98	10.44	4.82	13.80	10.58	5.07	14.21	10.70	5.12	15.45	10.99	5.24	16.28	11.23	5.34
35.0	11.78	9.90	4.56	12.60	10.10	5.18	13.42	10.26	5.28	13.80	10.36	5.28	15.07	10.68	5.53	15.89	10.93	5.65
40.0	11.27	9.60	5.01	12.09	9.82	5.40	12.91	10.00	5.48	13.32	10.13	5.49	14.55	10.45	5.58	15.37	10.72	5.70
43.0	10.96	9.26	4.91	11.78	9.50	5.14	12.60	9.69	5.13	13.01	9.82	5.12	14.24	10.15	5.17	15.06	10.42	5.29
46.0	10.65	8.97	4.41	11.47	9.22	4.46	12.29	9.42	4.36	12.70	9.56	4.31	13.93	9.90	4.32	14.75	10.18	4.42

##### ◆ ABNW42GM2A0 [UM42 N24]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	12.95	11.25	2.46	13.74	11.39	3.34	14.54	11.48	3.61	14.94	11.58	3.65	16.13	11.82	3.65	16.92	12.04	3.63
25.0	12.38	10.88	2.57	13.17	11.04	3.37	13.97	11.16	3.63	14.37	11.28	3.68	15.56	11.53	3.75	16.35	11.76	3.78
32.0	11.63	10.44	3.46	12.42	10.63	4.08	13.20	10.79	4.28	13.59	10.91	4.33	14.78	11.20	4.43	15.57	11.45	4.51
35.0	11.27	10.09	3.86	12.06	10.30	4.38	12.84	10.46	4.54	13.20	10.56	4.46	14.42	10.88	4.68	15.20	11.13	4.77
40.0	10.77	9.78	4.23	11.57	10.02	4.56	12.35	10.19	4.63	12.74	10.33	4.64	13.92	10.65	4.71	14.70	10.93	4.81
43.0	10.49	9.43	4.15	11.27	9.68	4.34	12.05	9.87	4.33	12.44	10.00	4.33	13.62	10.34	4.37	14.40	10.62	4.47
46.0	10.19	9.14	3.72	10.97	9.40	3.77	11.76	9.59	3.68	12.15	9.74	3.64	13.32	10.09	3.65	14.12	10.37	3.73

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ◆ 3Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	CT24 NP2(4) * 2	CM24 N14 * 2	CV24 NJ2 * 2	CB24L N32 * 2
PI	4.60	4.60	4.60	4.60

(Trio)

Model	CT18 NQ2(4) * 3	CM18 N14 * 3	CV18 NJ2 * 3	CB18L N22 * 3
PI	5.20	5.20	5.20	5.20

(Quartet)

Model	CT12 NR2 * 4	CB12L N22 * 4
PI	4.82	4.82

**Note**

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ■ Heating Capacity

#### ◆ ATNH42GMLE2 [UT42 NM2]

Outdoor Air Temp. °CWB	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	10.96	6.21	10.86	6.31	10.78	6.42	10.75	6.48	10.73	6.55	10.63	6.66
-10.0	11.70	6.33	11.68	6.48	11.68	6.64	11.68	6.74	11.68	6.84	11.56	6.93
-5.0	13.07	6.01	13.09	6.19	13.09	6.36	13.09	6.45	13.09	6.54	12.93	6.63
0.0	14.37	5.61	14.36	5.77	14.32	5.92	14.29	6.00	14.25	6.08	14.17	6.13
6.0	15.66	5.29	15.55	5.43	15.40	5.53	15.30	5.59	15.19	5.63	15.17	5.67
10.0	16.68	5.16	16.47	5.26	16.36	5.34	16.36	5.38	16.34	5.40	16.07	5.42
15.0	17.12	4.90	17.07	4.96	17.09	4.98	16.99	4.99	16.85	4.99	16.75	5.01

#### ◆ UVNH42GLLA2 [UV42 NL2]

Outdoor Air Temp. °CWB	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	10.96	6.39	10.86	6.49	10.78	6.60	10.75	6.66	10.73	6.74	10.63	6.85
-10.0	11.70	6.51	11.68	6.67	11.68	6.83	11.68	6.93	11.68	7.03	11.56	7.13
-5.0	13.07	6.18	13.09	6.36	13.09	6.55	13.09	6.64	13.09	6.73	12.93	6.81
0.0	14.37	5.77	14.36	5.93	14.32	6.09	14.29	6.17	14.25	6.25	14.17	6.31
6.0	15.66	5.44	15.55	5.58	15.40	5.69	15.30	5.75	15.19	5.79	15.17	5.83
10.0	16.68	5.31	16.47	5.41	16.36	5.49	16.36	5.53	16.34	5.56	16.07	5.57
15.0	17.12	5.04	17.07	5.10	17.09	5.12	16.99	5.13	16.85	5.13	16.75	5.16

#### ◆ ABNW42GM20 [UM42 N24]

Outdoor Air Temp. °CWB	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	10.67	5.34	10.58	5.42	10.50	5.51	10.47	5.56	10.45	5.62	10.35	5.72
-10.0	11.39	5.43	11.38	5.56	11.38	5.70	11.38	5.79	11.38	5.87	11.26	5.95
-5.0	12.73	5.16	12.76	5.31	12.76	5.46	12.76	5.54	12.76	5.62	12.59	5.68
0.0	14.00	4.82	13.98	4.95	13.95	5.08	13.92	5.15	13.88	5.22	13.80	5.27
6.0	15.26	4.54	15.15	4.66	15.00	4.75	14.91	4.80	14.80	4.83	14.77	4.87
10.0	16.24	4.43	16.05	4.52	15.92	4.59	15.92	4.62	15.91	4.64	15.65	4.64
15.0	16.68	4.20	16.62	4.26	16.65	4.27	16.55	4.28	16.41	4.28	16.32	4.31

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ◆ 3Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	CT24 NP2(4) * 2	CM24 N14 * 2	CV24 NJ2 * 2	CB24L N32 * 2
PI	4.60	4.60	4.60	4.60

(Trio)

Model	CT18 NQ2(4) * 3	CM18 N14 * 3	CV18 NJ2 * 3	CB18L N22 * 3
PI	5.00	5.00	5.00	5.00

(Quartet)

Model	CT12 NR2 * 4	CB12L N22 * 4
PI	4.82	4.82

**Note**

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### 6.12 AUUW488D2 [UU49W U32]

#### ■ Cooling Capacity

##### ◆ ATNH48GMLE2 [UT48 NM2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	15.39	12.85	3.34	16.34	13.01	4.53	17.29	13.13	4.90	17.76	13.24	4.95	19.19	13.51	4.95	20.13	13.76	4.92
25.0	14.72	12.43	3.49	15.67	12.62	4.57	16.61	12.76	4.92	17.08	12.88	5.00	18.50	13.17	5.08	19.44	13.44	5.13
32.0	13.83	11.93	4.68	14.76	12.16	5.52	15.70	12.33	5.80	16.17	12.46	5.86	17.58	12.79	6.00	18.52	13.08	6.11
35.0	13.40	11.53	5.23	14.34	11.77	5.93	15.27	11.95	6.05	15.70	12.06	6.05	17.14	12.43	6.34	18.07	12.72	6.46
40.0	12.82	11.17	5.74	13.75	11.44	6.18	14.68	11.65	6.27	15.15	11.80	6.29	16.55	12.17	6.39	17.49	12.48	6.52
43.0	12.46	10.78	5.62	13.40	11.06	5.89	14.33	11.28	5.88	14.80	11.44	5.86	16.20	11.82	5.92	17.13	12.14	6.05
46.0	12.11	10.45	5.05	13.05	10.74	5.11	13.98	10.97	4.99	14.45	11.13	4.94	15.85	11.53	4.94	16.78	11.85	5.06

##### ◆ UVNH48GLLA2 [UV48 NL2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	14.32	11.44	3.21	15.20	11.59	4.36	16.08	11.69	4.71	16.52	11.79	4.77	17.84	12.02	4.77	18.72	12.25	4.74
25.0	13.69	11.07	3.36	14.57	11.24	4.40	15.45	11.36	4.74	15.89	11.47	4.81	17.20	11.73	4.89	18.08	11.96	4.94
32.0	12.86	10.62	4.51	13.73	10.82	5.32	14.60	10.97	5.58	15.04	11.10	5.65	16.35	11.39	5.78	17.22	11.65	5.89
35.0	12.46	10.26	5.03	13.33	10.47	5.71	14.20	10.64	5.82	14.60	10.74	5.82	15.94	11.07	6.10	16.81	11.33	6.23
40.0	11.92	9.95	5.53	12.79	10.19	5.95	13.66	10.37	6.04	14.09	10.51	6.05	15.39	10.84	6.15	16.26	11.11	6.28
43.0	11.59	9.60	5.41	12.46	9.85	5.67	13.33	10.04	5.66	13.76	10.18	5.65	15.06	10.52	5.70	15.93	10.80	5.83
46.0	11.26	9.30	4.86	12.13	9.56	4.92	13.00	9.77	4.80	13.43	9.91	4.76	14.74	10.27	4.76	15.60	10.55	4.87

##### ◆ ABNW48GM30 [UM48 N34]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	15.10	13.45	3.31	16.03	13.63	4.34	16.96	13.74	4.70	17.42	13.87	4.75	18.82	14.14	4.75	19.75	14.40	4.84
25.0	14.44	13.02	4.03	15.37	13.22	4.60	16.29	13.36	4.72	16.76	13.49	4.79	18.14	13.79	4.87	19.07	14.07	4.92
32.0	13.56	12.49	4.61	14.48	12.73	5.30	15.40	12.91	5.56	15.86	13.05	5.63	17.24	13.40	5.76	18.16	13.70	5.87
35.0	13.15	12.07	5.01	14.06	12.32	5.69	14.98	12.51	5.90	15.40	12.63	5.95	16.81	13.02	6.08	17.73	13.32	6.20
40.0	12.57	11.70	5.51	13.49	11.98	5.93	14.40	12.20	6.02	14.86	12.36	6.03	16.24	12.75	6.13	17.15	13.07	6.26
43.0	12.23	11.29	5.53	13.14	11.58	5.79	14.06	11.81	5.78	14.52	11.97	5.77	15.89	12.38	5.83	16.81	12.71	5.96
46.0	11.88	10.94	4.84	12.80	11.24	4.90	13.71	11.49	4.91	14.17	11.66	4.86	15.54	12.07	4.86	16.46	12.41	4.98

##### ◆ APNH48GTLA0 [UP48 NT2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	14.94	11.63	2.61	15.86	11.79	3.54	16.77	11.88	3.83	17.24	11.99	3.86	18.61	12.24	3.86	19.54	12.45	3.84
25.0	14.28	11.26	2.73	15.19	11.44	3.56	16.11	11.55	3.84	16.58	11.67	3.89	17.94	11.94	3.98	18.86	12.17	4.01
32.0	13.42	10.80	3.66	14.32	11.01	4.31	15.23	11.16	4.52	15.68	11.30	4.57	17.05	11.58	4.69	17.96	11.85	4.77
35.0	13.01	10.44	4.07	13.91	10.66	4.64	14.82	10.82	4.72	15.20	10.90	4.70	16.64	11.26	4.96	17.53	11.53	5.04
40.0	12.44	10.12	4.47	13.34	10.36	4.82	14.24	10.55	4.89	14.71	10.69	4.91	16.05	11.03	4.99	16.97	11.32	5.09
43.0	12.09	9.77	4.39	12.99	10.02	4.59	13.91	10.21	4.59	14.35	10.36	4.57	15.72	10.71	4.62	16.62	11.00	4.72
46.0	11.74	9.47	3.94	12.66	9.73	3.99	13.55	9.93	3.89	14.02	10.09	3.86	15.37	10.44	3.86	16.29	10.73	3.96

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.



## 6. Capacity Tables

### ◆ 3Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	CT24 NP2(4) * 2	CM24 N14 * 2	CV24 NJ2 * 2	CB24L N32 * 2
PI	5.06	5.06	5.06	5.06

(Trio)

Model	CT18 NQ2(4) * 3	CM18 N14 * 3	CV18 NJ2 * 3	CB18L N22 * 3
PI	5.72	5.72	5.72	5.72

(Quartet)

Model	CT12 NR2 * 4	CB12L N22 * 4
PI	5.12	5.12

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ■ Heating Capacity

#### ◆ ATNH48GMLE2 [UT48 NM2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	12.52	7.48	12.41	7.59	12.32	7.73	12.29	7.80	12.27	7.89	12.15	8.02
-10.0	13.37	7.62	13.35	7.81	13.35	8.00	13.35	8.11	13.35	8.23	13.22	8.34
-5.0	14.94	7.24	14.96	7.45	14.96	7.66	14.96	7.77	14.96	7.88	14.78	7.98
0.0	16.43	6.76	16.41	6.94	16.37	7.13	16.33	7.22	16.29	7.32	16.19	7.39
6.0	17.90	6.37	17.77	6.53	17.60	6.66	17.49	6.73	17.36	6.78	17.34	6.83
10.0	19.06	6.22	18.82	6.34	18.69	6.43	18.69	6.48	18.67	6.51	18.36	6.52
15.0	19.57	5.90	19.50	5.97	19.54	6.00	19.42	6.01	19.25	6.01	19.14	6.04

#### ◆ UVNH48GLLA2 [UV48 NL2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	12.52	7.64	12.41	7.76	12.32	7.90	12.29	7.96	12.27	8.06	12.15	8.19
-10.0	13.37	7.78	13.35	7.98	13.35	8.17	13.35	8.29	13.35	8.41	13.22	8.52
-5.0	14.94	7.39	14.96	7.61	14.96	7.83	14.96	7.94	14.96	8.05	14.78	8.15
0.0	16.43	6.90	16.41	7.09	16.37	7.28	16.33	7.38	16.29	7.47	16.19	7.55
6.0	17.90	6.51	17.77	6.67	17.60	6.81	17.49	6.87	17.36	6.92	17.34	6.97
10.0	19.06	6.35	18.82	6.47	18.69	6.57	18.69	6.62	18.67	6.65	18.36	6.66
15.0	19.57	6.03	19.50	6.10	19.54	6.13	19.42	6.14	19.25	6.14	19.14	6.17

#### ◆ ABNW48GM3A0 [UM48 N34]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	13.68	5.33	13.55	5.41	13.45	5.51	13.42	5.56	13.40	5.63	13.24	5.76
-10.0	14.40	5.20	14.38	5.33	14.37	5.47	14.37	5.54	14.37	5.62	14.24	5.78
-5.0	15.61	5.44	15.62	5.60	15.63	5.76	15.63	5.84	15.63	5.92	15.44	6.09
0.0	16.67	5.85	16.66	6.02	16.62	6.18	16.58	6.25	16.53	6.33	16.40	6.48
6.0	18.50	6.26	18.38	6.41	18.20	6.54	18.09	6.60	17.95	6.66	17.81	6.77
10.0	19.55	6.51	19.31	6.64	19.18	6.74	19.18	6.78	19.15	6.82	18.83	6.88
15.0	21.21	6.94	21.15	7.01	21.19	7.06	21.05	7.07	20.87	7.07	20.63	7.12

#### ◆ APNH48GTLA0 [UP48 NT2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	12.14	5.81	12.04	5.91	11.95	6.01	11.92	6.06	11.90	6.13	11.79	6.23
-10.0	12.97	5.92	12.95	6.07	12.95	6.22	12.95	6.31	12.95	6.40	12.82	6.49
-5.0	14.49	5.62	14.51	5.79	14.51	5.96	14.51	6.04	14.51	6.12	14.34	6.20
0.0	15.94	5.25	15.92	5.40	15.88	5.54	15.84	5.61	15.80	5.69	15.70	5.74
6.0	17.36	4.95	17.24	5.08	17.10	5.20	16.97	5.23	16.84	5.27	16.82	5.31
10.0	18.49	4.83	18.26	4.92	18.13	5.00	18.13	5.03	18.11	5.06	17.81	5.07
15.0	18.98	4.59	18.92	4.64	18.95	4.66	18.84	4.67	18.67	4.67	18.57	4.70

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ◆ 3Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	CT24 NP2(4) * 2	CM24 N14 * 2	CV24 NJ2 * 2	CB24L N32 * 2
PI	5.06	5.06	5.06	5.06

(Trio)

Model	CT18 NQ2(4) * 3	CM18 N14 * 3	CV18 NJ2 * 3	CB18L N22 * 3
PI	5.50	5.50	5.50	5.50

(Quartet)

Model	CT12 NR2 * 4	CB12L N22 * 4
PI	5.22	5.22

**Note**

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### 6.13 AUUW608WD2 [UU61W U32]

#### ■ Cooling Capacity

##### ◆ ATNH60GMLE2 [UT60 NM2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	15.98	12.76	4.10	16.97	12.92	5.57	17.95	13.03	6.02	18.44	13.15	6.09	19.92	13.41	6.09	20.90	13.66	6.05
25.0	15.29	12.34	4.29	16.27	12.53	5.61	17.25	12.67	6.05	17.74	12.79	6.14	19.20	13.08	6.25	20.18	13.34	6.30
32.0	14.35	11.84	5.76	15.33	12.07	6.79	16.30	12.24	7.13	16.79	12.38	7.21	18.25	12.71	7.38	19.23	12.99	7.52
35.0	13.92	11.44	6.42	14.89	11.68	7.29	15.86	11.86	7.43	16.30	11.98	7.43	17.79	12.35	7.79	18.76	12.64	7.95
40.0	13.31	11.10	7.06	14.28	11.36	7.60	15.25	11.57	7.71	15.73	11.72	7.73	17.18	12.09	7.85	18.15	12.40	8.02
43.0	12.94	10.71	6.91	13.91	10.98	7.23	14.88	11.20	7.22	15.36	11.36	7.21	16.82	11.74	7.28	17.79	12.05	7.44
46.0	12.57	10.37	6.20	13.54	10.66	6.28	14.51	10.89	6.13	15.00	11.05	6.07	16.45	11.45	6.08	17.42	11.77	6.22

##### ◆ UVNH60GLLA2 [UV60 NL2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	15.39	11.96	3.86	16.34	12.12	5.24	17.29	12.22	5.66	17.76	12.33	5.73	19.19	12.58	5.73	20.13	12.81	5.70
25.0	14.72	11.57	4.04	15.67	11.75	5.29	16.61	11.88	5.70	17.08	12.00	5.78	18.50	12.27	5.88	19.44	12.51	5.93
32.0	13.83	11.11	5.42	14.76	11.32	6.39	15.70	11.48	6.71	16.17	11.61	6.79	17.58	11.91	6.95	18.52	12.18	7.07
35.0	13.40	10.73	6.05	14.34	10.96	6.87	15.27	11.13	7.00	15.70	11.23	7.00	17.14	11.58	7.33	18.07	11.85	7.48
40.0	12.82	10.41	6.64	13.75	10.65	7.16	14.68	10.85	7.26	15.15	10.99	7.28	16.55	11.34	7.39	17.49	11.62	7.55
43.0	12.46	10.04	6.51	13.40	10.30	6.81	14.33	10.50	6.80	14.80	10.65	6.79	16.20	11.01	6.85	17.13	11.30	7.00
46.0	12.11	9.73	5.84	13.05	10.00	5.91	13.98	10.22	5.77	14.45	10.37	5.72	15.85	10.74	5.72	16.78	11.04	5.86

##### ◆ ABNW60GM3A0 [UM60 N34]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	15.98	14.41	3.63	16.97	14.60	4.75	17.95	14.73	5.14	18.44	14.85	5.20	19.92	15.15	5.20	20.90	15.43	5.30
25.0	15.29	13.94	4.41	16.27	14.16	5.03	17.25	14.31	5.17	17.74	14.45	5.24	19.20	14.78	5.33	20.18	15.07	5.38
32.0	14.35	13.38	5.04	15.33	13.64	5.80	16.30	13.83	6.09	16.79	13.98	6.16	18.25	14.35	6.30	19.23	14.68	6.42
35.0	13.92	12.93	5.49	14.89	13.20	6.23	15.86	13.40	6.46	16.30	13.53	6.51	17.79	13.95	6.65	18.76	14.28	6.79
40.0	13.31	12.54	6.02	14.28	12.84	6.49	15.25	13.07	6.58	15.73	13.24	6.60	17.18	13.66	6.70	18.15	14.00	6.85
43.0	12.94	12.10	6.05	13.91	12.41	6.34	14.88	12.65	6.33	15.36	12.83	6.31	16.82	13.26	6.38	17.79	13.61	6.52
46.0	12.57	11.72	5.30	13.54	12.05	5.36	14.51	12.31	5.37	15.00	12.49	5.32	16.45	12.94	5.32	17.42	13.30	5.45

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ◆ 3Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	UT30 NP2(4) * 2	UM30 N14 * 2	UV30 NJ2 * 2
PI	5.80	5.80	5.80

(Trio)

Model	CT18 NQ2(4) * 3	CM18 N14 * 3	CV18 NJ2 * 3	CB18L N22 * 3
PI	5.20	5.20	5.20	5.20

(Quartet)

Model	CT12 NR2 * 4	CB12L N22 * 4
PI	4.82	4.82

**Note**

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ■ Heating Capacity

#### ◆ ATNH60GMLE2 [UT60 NM2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	13.31	9.06	13.18	9.19	13.09	9.36	13.06	9.44	13.03	9.55	12.91	9.71
-10.0	14.20	9.22	14.18	9.45	14.18	9.68	14.18	9.82	14.18	9.96	14.04	10.10
-5.0	15.87	8.76	15.90	9.02	15.90	9.27	15.90	9.40	15.90	9.53	15.70	9.66
0.0	17.45	8.18	17.44	8.41	17.39	8.63	17.35	8.74	17.30	8.85	17.21	8.94
6.0	19.01	7.71	18.88	7.91	18.70	8.07	18.58	8.14	18.45	8.20	18.42	8.26
10.0	20.25	7.52	20.00	7.67	19.86	7.78	19.86	7.84	19.84	7.88	19.51	7.89
15.0	20.79	7.14	20.72	7.23	20.76	7.26	20.63	7.28	20.46	7.28	20.34	7.31

#### ◆ UVNH60GLLA2 [UV60 NL2]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	13.31	8.83	13.18	8.96	13.09	9.12	13.06	9.20	13.03	9.31	12.91	9.47
-10.0	14.20	8.99	14.18	9.22	14.18	9.44	14.18	9.58	14.18	9.72	14.04	9.85
-5.0	15.87	8.54	15.90	8.79	15.90	9.04	15.90	9.17	15.90	9.30	15.70	9.42
0.0	17.45	7.98	17.44	8.20	17.39	8.42	17.35	8.53	17.30	8.63	17.21	8.72
6.0	19.01	7.52	18.88	7.71	18.70	7.87	18.58	7.94	18.45	8.00	18.42	8.06
10.0	20.25	7.34	20.00	7.48	19.86	7.59	19.86	7.64	19.84	7.68	19.51	7.70
15.0	20.79	6.97	20.72	7.05	20.76	7.08	20.63	7.09	20.46	7.09	20.34	7.13

#### ◆ ABNW60GM3A0 [UM60 N34]

Outdoor Air Temp.	Indoor Air Temperature : °CDB											
	16.0		18.0		20.0		21.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-15.0	14.06	5.45	13.92	5.54	13.82	5.64	13.79	5.69	13.77	5.75	13.60	5.89
-10.0	14.79	5.32	14.77	5.45	14.76	5.60	14.77	5.67	14.77	5.75	14.63	5.92
-5.0	16.03	5.57	16.05	5.73	16.06	5.89	16.06	5.98	16.05	6.06	15.86	6.23
0.0	17.13	5.98	17.12	6.15	17.07	6.32	17.04	6.40	16.99	6.48	16.85	6.63
6.0	19.01	6.40	18.88	6.55	18.70	6.69	18.58	6.75	18.45	6.81	18.30	6.92
10.0	20.09	6.66	19.84	6.79	19.70	6.89	19.70	6.94	19.68	6.98	19.35	7.04
15.0	21.80	7.10	21.73	7.18	21.77	7.22	21.63	7.23	21.45	7.23	21.20	7.28

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ◆ 3Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	UT30 NP2(4) * 2	UM30 N14 * 2	UV30 NJ2 * 2
PI	5.70	5.70	5.70

(Trio)

Model	CT18 NQ2(4) * 3	CM18 N14 * 3	CV18 NJ2 * 3	CB18L N22 * 3
PI	5.00	5.00	5.00	5.00

(Quartet)

Model	CT12 NR2 * 4	CB12L N22 * 4
PI	4.82	4.82

**Note**

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### 6.14 AUUW70LAE [UU70W U34]

#### ■ Cooling Capacity

##### ◆ ABNW70GB9A0 [UB70 N94]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	13.33	13.15	3.33	16.68	15.47	4.41	19.23	17.79	5.48	21.17	18.95	5.69	23.11	18.62	5.90	24.59	18.40	5.94
25.0	12.60	12.60	3.65	15.96	15.08	4.77	18.51	17.40	5.92	20.45	18.56	6.13	22.39	18.23	6.34	23.86	18.01	6.38
32.0	11.59	11.59	4.17	14.94	14.54	5.29	17.49	16.86	6.53	19.43	18.02	6.74	21.37	17.68	6.95	22.85	17.46	6.99
35.0	11.15	11.15	4.39	14.51	14.31	5.51	17.06	16.62	6.79	19.00	17.78	7.00	20.94	17.45	7.21	22.42	17.23	7.25
40.0	10.43	10.43	4.75	13.78	13.78	5.87	14.71	14.62	5.69	16.44	15.65	5.86	18.17	15.34	6.03	19.49	15.13	6.07
43.0	9.99	9.99	4.97	13.35	13.35	6.09	13.30	13.30	5.03	14.91	14.34	5.18	16.52	14.05	5.33	17.74	13.86	5.36
46.0	9.56	9.56	5.19	12.92	12.92	6.31	11.89	11.89	4.38	13.37	13.00	4.50	14.86	12.74	4.62	15.98	12.57	4.64
48.0	9.27	9.27	5.34	12.63	12.63	6.46	10.95	10.95	3.94	12.35	12.10	4.04	13.75	11.86	4.15	14.81	11.70	4.17

- Rate of change in TC and PI due to the indoor unit at standard temperature condition.

Model	Correction factor	
	TC	PI
ABNW70GB9A0 [UB70 N94]	Max.	1.10
	Rated	1.00

#### ◆ 3Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	UT36 NN2 * 2	UM36 N24 * 2	UV36 NK2 * 2
PI	8.71	8.71	8.71

(Trio)

Model	CT24 NP2(4) * 3	CM24 N14 * 3	CB24L N32 * 3	CV24 NJ2 * 3
PI	8.26	8.26	8.26	8.26

(Quartet)

Model	CT18 NQ2(4) * 4	CM18 N14 * 4	CB18L N22 * 4	CV18 NJ2 * 4
PI	7.84	7.84	7.84	7.84

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.



## 6. Capacity Tables

### ■ Heating Capacity

#### ◆ ABNW70GB9A0 [UB70 N94]

Outdoor Air Temp. °CWB	Indoor Air Temperature : °CDB									
	16.0		18.0		20.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	10.25	2.35	10.16	2.88	10.07	3.41	9.98	4.24	9.90	5.06
-15.0	13.34	3.41	13.24	3.95	13.15	4.48	13.06	5.21	12.98	5.94
-10.0	16.42	4.48	16.33	5.01	16.23	5.55	16.15	6.18	16.06	6.81
-5.0	19.51	5.55	19.41	6.08	19.32	6.61	19.23	7.15	19.15	7.68
0.0	22.59	6.61	22.49	7.15	22.40	7.68	21.50	7.24	20.61	6.81
6.0	24.80	7.04	23.60	6.72	22.40	6.40	21.50	6.08	20.61	5.76
10.0	24.80	6.61	23.60	6.08	22.40	5.55	21.50	5.30	20.61	5.06
15.0	24.80	5.55	23.60	5.01	22.40	4.48	21.50	4.34	20.61	4.19
18.0	24.80	4.91	23.60	4.37	22.40	3.84	21.50	3.75	20.61	3.67

- Rate of change in TC and PI due to the indoor unit at standard temperature condition.

Model	Correction factor	
	TC	PI
ABNW70GB9A0 [UB70 N94]	Max.	1.10
	Rated	1.00

#### ◆ 3Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	UT36 NN2 * 2	UM36 N24 * 2	UV36 NK2 * 2
PI	7.86	7.86	7.86

(Trio)

Model	CT24 NP2(4) * 3	CM24 N14 * 3	CB24L N32 * 3	CV24 NJ2 * 3
PI	7.46	7.46	7.46	7.46

(Quartet)

Model	CT18 NQ2(4) * 4	CM18 N14 * 4	CB18L N22 * 4	CV18 NJ2 * 4
PI	7.07	7.07	7.07	7.07

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### 6.15 AUUW85LAE [UU85W U74]

#### ■ Cooling Capacity

#### ◆ ABMW85GB9A0 [UU85 N94]

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20.0 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	16.13	14.46	3.90	20.19	17.01	5.16	23.28	19.56	6.41	25.63	20.83	6.66	27.98	20.47	6.91	29.76	20.22	6.95
25.0	15.26	14.03	4.27	19.32	16.58	5.59	22.41	19.13	6.92	24.75	20.41	7.17	27.10	20.04	7.42	28.89	19.79	7.46
32.0	14.03	13.43	4.88	18.09	15.98	6.19	21.18	18.53	7.64	23.53	19.81	7.88	25.87	19.44	8.13	27.66	19.20	8.18
35.0	13.50	13.18	5.13	17.56	15.73	6.44	20.65	18.28	7.94	23.00	19.55	8.19	25.35	19.18	8.44	27.13	18.94	8.49
40.0	12.62	12.62	5.56	16.69	15.30	6.87	19.77	17.85	8.45	22.12	19.12	8.70	24.47	18.75	8.95	26.26	18.51	9.00
43.0	12.10	12.10	5.82	16.16	15.04	7.13	19.25	17.59	8.76	21.60	18.86	9.01	23.95	18.50	9.25	25.73	18.25	9.30
46.0	11.57	11.57	6.08	15.63	14.78	7.39	16.88	15.62	8.23	18.99	16.77	8.45	21.10	16.44	8.68	22.71	16.21	8.72
48.0	11.22	11.22	6.25	15.28	14.61	7.56	15.29	14.29	7.87	17.25	15.35	8.08	19.21	15.04	8.29	20.69	14.84	8.33

- Rate of change in TC and PI due to the indoor unit at standard temperature condition.

Model	Correction factor	
	TC	PI
ABMW85GB9A0 [UU85 N94]	Max.	1.10
	Rated	1.00

#### ◆ 3Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	UT42 NM2 * 2	UM42 N24 * 2	UV42 NL2 * 2
PI	8.61	8.61	8.61

(Trio)

Model	CT24 NP2(4) * 3	CM24 N14 * 3	CB24L N32 * 3	CV24 NJ2 * 3
PI	8.18	8.18	8.18	8.18

(Quartet)

Model	CT18 NQ2(4) * 4	CM18 N14 * 4	CB18L N22 * 4	CV18 NJ2 * 4
PI	7.75	7.75	7.75	7.75

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### ■ Heating Capacity

#### ◆ ABMW85GB9A0 [UU85 N94]

Outdoor Air Temp. °CWB	Indoor Air Temperature : °CDB									
	16.0		18.0		20.0		22.0		24.0	
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	13.42	4.36	13.30	4.88	13.18	5.40	13.07	6.06	12.96	6.73
-15.0	16.87	5.40	16.75	5.92	16.63	6.44	16.53	7.05	16.42	7.67
-10.0	20.33	6.44	20.21	6.96	20.09	7.48	19.98	8.05	19.87	8.61
-5.0	23.78	7.48	23.66	8.00	23.54	8.52	23.44	9.04	23.33	9.56
0.0	27.24	8.52	27.12	9.04	27.00	9.56	25.92	9.08	24.84	8.61
6.0	29.89	9.14	28.45	8.73	27.00	8.31	25.92	7.90	24.84	7.48
10.0	29.89	8.52	28.45	8.00	27.00	7.48	25.92	7.10	24.84	6.73
15.0	29.89	7.48	28.45	6.96	27.00	6.44	25.92	6.11	24.84	5.78
18.0	29.89	6.86	28.45	6.34	27.00	5.82	25.92	5.52	24.84	5.22

- Rate of change in TC and PI due to the indoor unit at standard temperature condition.

Model	Correction factor	
	TC	PI
ABMW85GB9A0 [UU85 N94]	Max.	1.10
	Rated	1.00

#### ◆ 3Ø Synchro Equivalent capacity table

Max Power Input of each model is tabulated below

(Duo)

Model	UT42 NM2 * 2	UM42 N24 * 2	UV42 NL2 * 2
PI	8.73	8.73	8.73

(Trio)

Model	CT24 NP2(4) * 3	CM24 N14 * 3	CB24L N32 * 3	CV24 NJ2 * 3
PI	8.29	8.29	8.29	8.29

(Quartet)

Model	CT18 NQ2(4) * 4	CM18 N14 * 4	CB18L N22 * 4	CV18 NJ2 * 4
PI	7.86	7.86	7.86	7.86

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. For Synchro model operating simultaneously with combinations, The individual capacities of indoor unit are not given because they are same with the Single model capacities.
6. Direct interpolation is permissible. Do not extrapolate.
7. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
8. In accordance with the test standard(or nations), the rating will vary slightly.

## 7. Capacity Coefficient Factor

### 7.1 Rate of change in capacity due to the main piping length

#### ■ 1 Phase Inverter

##### ◆ Rate of change in cooling capacity

Piping length(m)		5	10	15	20	30	40	50	60	70	75
Rate of change in capacity(%)	2.5/3.5 kW	100	99.8	99.3	98.8	-	-	-	-	-	-
	5.0 kW	100	99.8	99.3	98.8	97.8	-	-	-	-	-
	7.1/8.0/10.0 kW	100	99.3	97.9	96.6	93.8	91.1	88.4	-	-	-
	12.5/14.0/15.0 kW	100	99.3	97.9	96.6	93.8	91.1	88.4	85.6	82.9	81.5

##### ◆ Rate of change in heating capacity

Piping length(m)		5	10	15	20	30	40	50	60	70	75
Rate of change in capacity(%)	2.5/3.5 kW	100	99.8	99.4	99.0	-	-	-	-	-	-
	5.0 kW	100	99.8	99.4	99.0	98.3	-	-	-	-	-
	7.1/8.0/10.0 kW	100	99.7	99.2	98.7	97.7	96.6	95.6	-	-	-
	12.5/14.0/15.0 kW	100	99.7	99.2	98.7	97.7	96.6	95.6	94.6	93.5	93

#### ■ 3 Phase Inverter

##### ◆ Rate of change in cooling capacity

Piping length(m)		5	10	15	20	30	40	50	60	70	75
Rate of change in capacity(%)	10.0 kW	100	99.3	97.9	96.6	93.8	91.1	88.4	-	-	-
	12.5/14.0/15.0 kW 19.0/23.0 kW	100	99.3	97.9	96.6	93.8	91.1	88.4	85.6	82.9	81.5

##### ◆ Rate of change in heating capacity

Piping length(m)		5	10	15	20	30	40	50	60	70	75
Rate of change in capacity(%)	10.0 kW	100	99.7	99.2	98.7	97.7	96.6	95.6	-	-	-
	12.5/14.0/15.0 kW 19.0/23.0 kW	100	99.7	99.2	98.7	97.7	96.6	95.6	94.6	93.5	93.0

### 7.2 Calculation of actual system capacity

#### 1. Outdoor unit standard maximum capacity

$Q_{max}$ . [from specification table]

#### 2. Outdoor unit capacity at $T_i$ , $T_o$ temperature.

$Q_{(T_i, T_o)}$  [from capacity table]

#### 3. Outdoor unit capacity coefficient factor

$F_{(T_i, T_o)} = Q_{(T_i, T_o)} / Q_{(max.)}$

#### 4. Piping correction factor

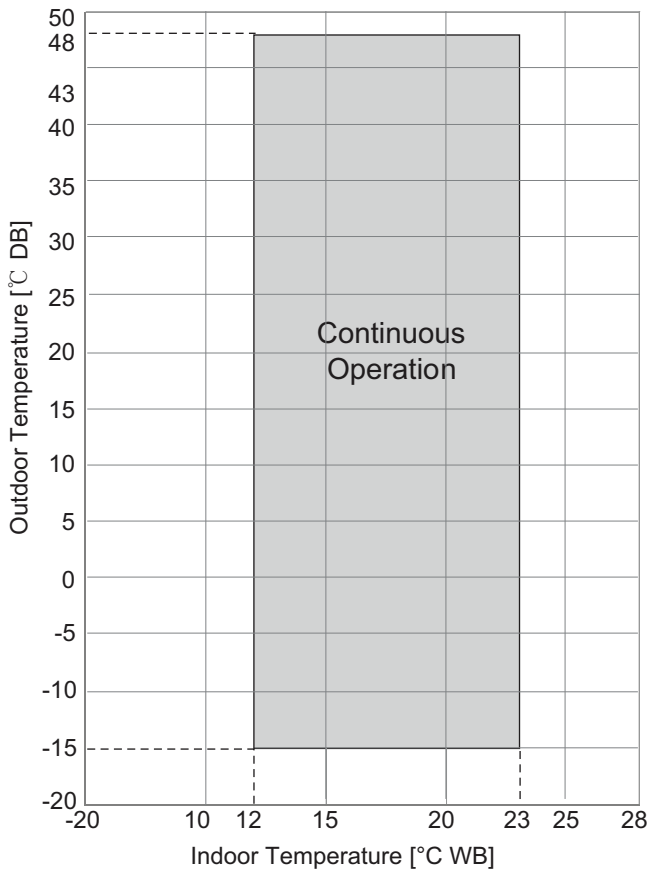
$F_{piping}$  for piping length [from capacity coefficient factor table]

#### 5. Indoor Unit actual capacity

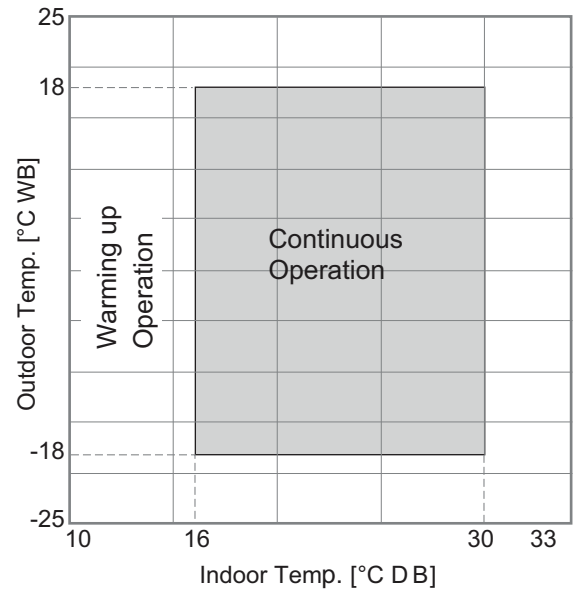
$Q_{actual} = Q_{max} \times F_{(T_i, T_o)} \times F_{piping}$

# 8. Operation Range

### Cooling



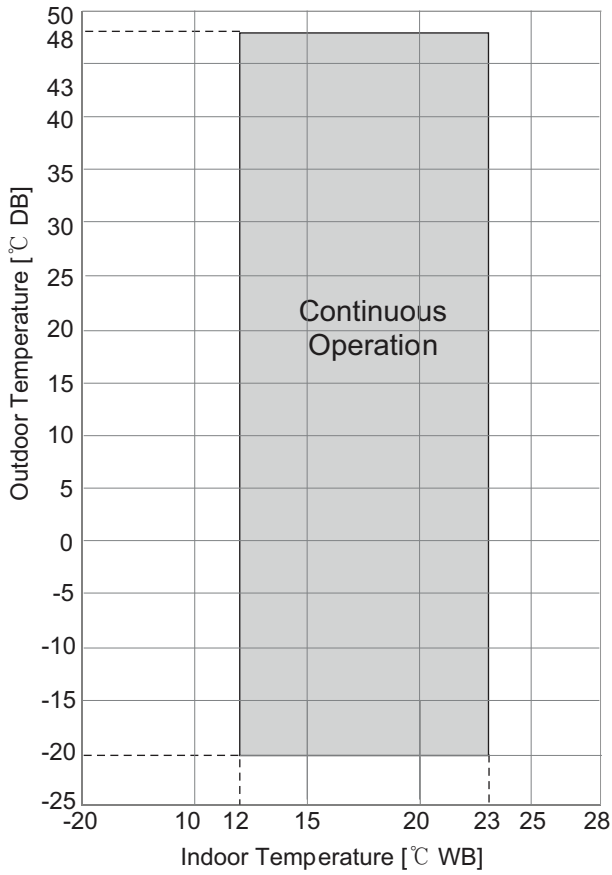
### Heating



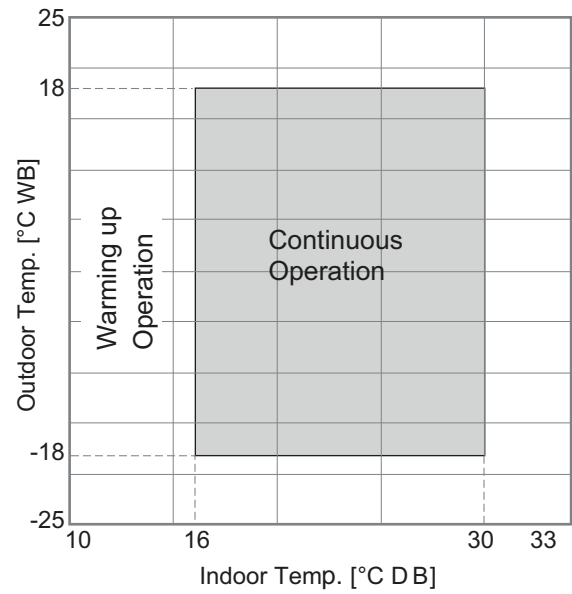
## 8. Operation Range

■ Only for AUUW70LAE [UU70W U34], AUUW85LAE [UU85W U74]

**Cooling**



**Heating**



## 9. Electric Characteristics

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### ■ Wiring of Main Power Supply and Equipment Capacity

1. The power supply work is needed only to the outdoor unit. The power supply to the indoor unit is conducted through the transmission wiring. Therefore, the power supply work can be carried out at just one place of the outdoor unit. It will contribute to simplify the work procedure and to save cost.
  2. Bear in mind ambient conditions (ambient temperature, direct sunlight, rain liquid, etc.) when proceeding with the wiring and connections
  3. The wire size is the minimum value for metal conduit wiring. The power cord size should be 1 rank thicker taking into account the line voltage drops. Make sure the power-supply voltage does not drop more than 10%.
  4. Specific wiring requirements should adhere to the wiring regulations of the region.
  5. Power supply cords of parts of appliances for outdoor use should not be lighter than polychloroprene sheathed flexible cord.
  6. Don't install an individual switch or electrical outlet to disconnect each of indoor unit separately from the power supply.
- 

### WARNING

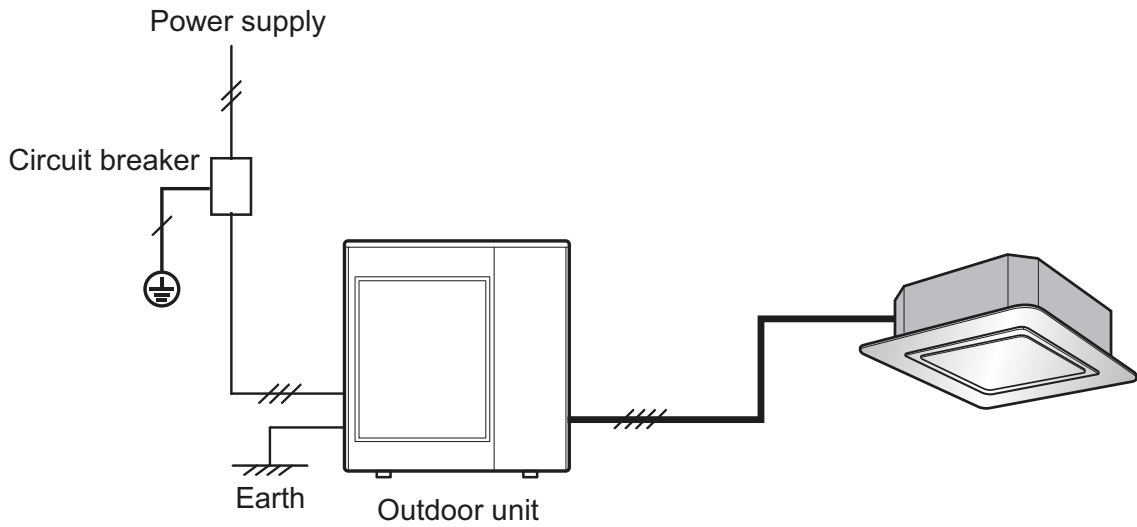
- Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations and guidance of each electric power company.
  - Make sure to use specified wires for connections so that no external force is imparted to terminal connections. If connections are not fixed firmly, it may cause heating or fire.
  - Make sure to use the appropriate type of overcurrent protection switch. Note that generated overcurrent may include some amount of direct current.
- 

### CAUTION

- Some installation site may require attachment of an earth leakage breaker. If no earth leakage breaker is installed, it may cause an electric shock.
  - Do not use anything other than breaker and fuse with correct capacity. Using fuse and wire or copper wire with too large capacity may cause a malfunction of unit or fire.
-

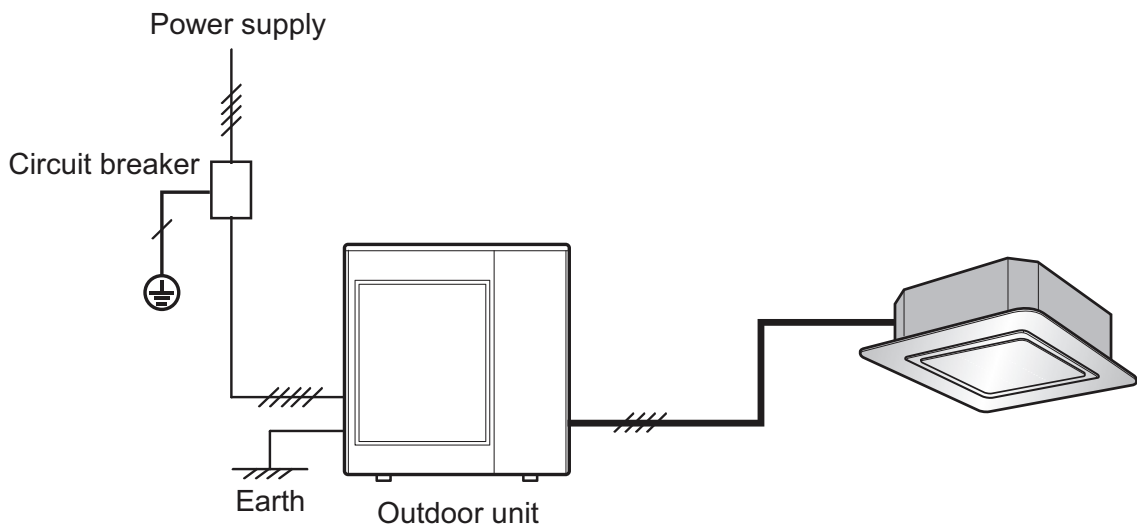
## 9. Electric Characteristics

### [ Field Wiring (Single Phase, 2 Wiring Type) ]



※ This figure is representative example for field wiring. Actual appearance of outdoor and indoor units could be different with installed product.

### [ Field Wiring (3 Phase, 4 Wiring Type) ]



※ This figure is representative example for field wiring. Actual appearance of outdoor and indoor units could be different with installed product.



# 9. Electric Characteristics

Outdoor Unit		Combined Indoor Unit		Unit	Voltage range	Power		Comp		OFM		IFM	
Model names	Model Name	No. of Unit	Phase Hz Volts	MCA		MFA	MSC	RLA	kW	FLA	kW	FLA	
AUUW09GA0 [UU09W UL0]	ATNH09GRLE2 [CT09 NR2]	1	1 50 220-240	Min. : 198 Max. : 264	6.9	15	-	5.00	0.043	0.25	0.020	0.40	
	ABNW09GL2A2 [CB09L N22]				7.3	15	-	5.00	0.043	0.25	0.095	0.80	
	AVNH09GELA2 [CV09 NE2]				6.9	15	-	5.00	0.043	0.25	0.030	0.40	
	AQNH09GALA0 [CQ09 NA0]				7.1	15	-	5.00	0.043	0.25	0.020	0.60	
AUUW12GA0 [UU12W UL0]	ATNH12GRLE2 [CT12 NR2]				7.9	15	-	5.80	0.043	0.25	0.020	0.40	
	ABNH12GL2A2 [CB12L N22]				8.3	15	-	5.80	0.043	0.25	0.095	0.80	
	AVNH12GELA2 [CV12 NE2]				7.9	15	-	5.80	0.043	0.25	0.040	0.40	
	AQNH12GALA0 [CQ12 NA0]				8.1	15	-	5.80	0.043	0.25	0.030	0.60	
AUUW18GAE [UU18W UE4]	ATNW18GQLA0 [CT18 NQ4]				16.2	20	-	12.40	0.085	0.33	0.040	0.40	
	ABNW18GM1A0 [CM18 N14]				16.2	20	-	12.40	0.085	0.33	0.080	0.40	
	ABNH18GL2A2 [CB18 N22]				16.6	20	-	12.40	0.085	0.33	0.120	0.80	
	UVNH18GJLA2 [CV18 NJ2]				16.2	20	-	12.40	0.085	0.33	0.050	0.40	
	AQNH18GALA0 [CQ18 NA0]				16.5	20	-	12.40	0.085	0.33	0.040	0.70	
AUUW24GAE [UU24W U44]	ATNW24GPLA0 [CT24 NP4]				22.3	30	-	17.00	0.124	0.48	0.060	0.60	
	ABNW24GM1A0 [CM24 N14]				22.2	30	-	17.00	0.124	0.48	0.090	0.50	
	ABNH24GL3A2 [CB24L N32]				22.7	30	-	17.00	0.124	0.48	0.150	1.00	
	UVNH24GJLA2 [CV24 NJ2]	22.3	30	-	17.00	0.124	0.48	0.060	0.60				
AUUW30GAE [UU30W U44]	ATNW30GPLA0 [UT30 NP4]	22.3	30	-	17.00	0.124	0.48	0.080	0.60				
	ABNW30GM1A0 [UM30 N14]	22.5	30	-	17.00	0.124	0.48	0.150	0.80				
	UVNH30GJLA2 [UV30 NJ2]	22.3	30	-	17.00	0.124	0.48	0.060	0.60				
	AJNW30GVLA0 [UJ30 NV2]	22.3	30	-	17.00	0.124	0.48	0.160	0.60				
AUUW366D2 [UU36W UO2]	ATNH36GNLE2 [UT36 NN2]	22.4	40	-	16.93	0.171	0.65	0.140	0.60				
	ABNW36GM2A0 [UM36 N24]	23.1	40	-	16.93	0.171	0.65	0.210	1.30				
	UVNH36GKLA2 [UV36 NK2]	22.5	40	-	16.93	0.171	0.65	0.090	0.70				
	AJNW36GVLA1 [UJ36 NV3]	22.4	40	-	16.93	0.171	0.65	0.160	0.60				

**Note**

1. Voltage supplied to the unit terminals should be within the minimum and maximum range.
2. Maximum allowable voltage unbalance between phase is 2%.
3. MSC means the Max. current during the starting of compressor.
4. MSC and RLA are measured as the compressor only test condition.
5. OFM and IFM are measured as the outdoor unit test condition.
6. Select the wire size based on the MCA.
7. MFA is used to select the circuit breaker and ground fault circuit interrupter, and recommended circuit breaker type is ELCB(Earth Leakage Circuit Breaker).

**MCA** : Minimum Circuit Amperes (A)  
**MFA** : Maximum Fuse Amperes (A)  
**MSC** : Maximum Starting Current  
**RLA** : Rated Load Amperes (A)  
**OFM** : Outdoor Fan Motor  
**IFM** : Indoor Fan Motor  
**kW** : Fan Motor rated output (kW)  
**FLA** : Full Load Amperes (A)

# 9. Electric Characteristics

Outdoor Unit	Combined Indoor Unit		Unit		Power				Comp		OFM		IFM			
	Model names	Model Name	No. of Unit	Phase Hz Volts	Voltage range	MCA	MFA	MSC	RLA	kW	FLA	kW	FLA			
AUUW426D2 [UU42W U32]	ATNH42GMLE2 [UT42 NM2]	1	1	50	220-240	Min. : 198 Max. : 264	24.6	40	-	18.08	0.248	0.95	0.210	1.00		
	ABNW42GM2A0 [UM42 N24]						25.1	40	-	18.08	0.248	0.95	0.260	1.50		
	UVNH42GLLA2 [UV42 NL2]						24.6	40	-	18.08	0.248	0.95	0.130	1.00		
ATNH48GMLE2 [UT48 NM2]	28.8						40	-	21.51	0.248	0.95	0.210	1.00			
ABNW48GM3A0 [UM48 N34]	28.9						40	-	21.51	0.248	0.95	0.180	1.10			
UVNH48GLLA2 [UV48 NL2]	28.9						40	-	21.51	0.248	0.95	0.140	1.10			
AUUW486D2 [UUW48 U32]	APNH48GTLA0 [UP48 NT2]				28.7	40	-	21.51	0.248	0.95	0.150	0.90				
	ATNH60GMLE2 [UT60 NM2]				33.9	40	-	25.57	0.248	0.95	0.210	1.00				
	ABNW60GM3A0 [UM60 N34]				34.6	40	-	25.57	0.248	0.95	0.290	1.65				
AUUW606D2 [UU60W U32]	UVNH60GLLA2 [UV60 NL2]				34.1	40	-	25.57	0.248	0.95	0.150	1.20				
	ATNH36GNLE2 [UT36 NN2]				3	50	318-415	Min. : 342 Max. : 456	10.9	20	-	7.71	0.171	0.65	0.140	0.60
	ABNW36GM2A0 [UM36 N24]								11.6	20	-	7.71	0.171	0.65	0.210	1.30
UVNH36GKLA2 [UV36 NK2]	11.0	20	-	7.71					0.171	0.65	0.090	0.70				
AJNW36GVLA1 [UJ36 NV3]	10.9	20	-	7.71					0.171	0.65	0.160	0.60				
ATNH42GMLE2 [UT42 NM2]	12.5	20	-	8.47					0.248	0.95	0.210	1.00				
ABNW42GM2A0 [UM42 N24]	13.0	20	-	8.47					0.248	0.95	0.260	1.50				
AUUW428D2 [UU43W U32]	UVNH42GLLA2 [UV42 NL2]	12.5	20	-				8.47	0.248	0.95	0.130	1.00				
	ATNH48GMLE2 [UT48 NM2]	13.4	20	-				9.12	0.248	0.95	0.210	1.00				
	ABNW48GM3A0 [UM48 N34]	13.5	20	-				9.12	0.248	0.95	0.180	1.10				
AUUW488D2 [UU49W U32]	UVNH48GLLA2 [UV48 NL2]	13.5	20	-				9.12	0.248	0.95	0.140	1.10				
	APNH48GTLA0 [UP48 NT2]	13.3	20	-				9.12	0.248	0.95	0.150	0.90				
	ATNH60GMLE2 [UT60 NM2]	14.4	20	-				9.97	0.248	0.95	0.210	1.00				
AUUW608D2 [UU61W U32]	ABNW60GM3A0 [UM60 N34]	15.1	20	-	9.97	0.248	0.95	0.290	1.65							
	UVNH60GLLA2 [UV60 NL2]	14.6	20	-	9.97	0.248	0.95	0.150	1.20							
	AUW70LAE [UU70W U34]	18.3	30	-	11.5	0.248	0.95	-	3.00							
AUW80LAE [UU85W U74]	22.8	30	-	13.6	0.850	2.80	-	3.00								

**Note**

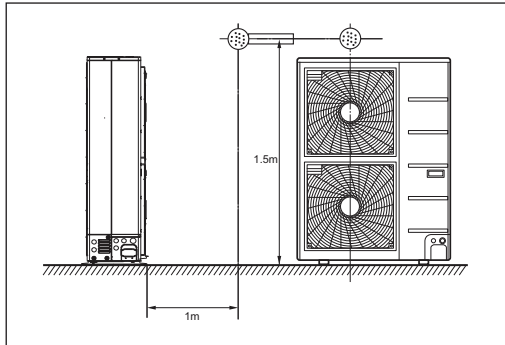
1. Voltage supplied to the unit terminals should be within the minimum and maximum range.
2. Maximum allowable voltage unbalance between phase is 2%.
3. MSC means the Max. current during the starting of compressor.
4. MSC and RLA are measured as the compressor only test condition.
5. OFM and IFM are measured as the outdoor unit test condition.
6. Select the wire size based on the MCA.
7. MFA is used to select the circuit breaker and ground fault circuit interrupter, and recommended circuit breaker type is ELCB(Earth Leakage Circuit Breaker).

- MCA** : Minimum Circuit Amperes (A)
- MFA** : Maximum Fuse Amperes (A)
- MSC** : Maximum Starting Current
- RLA** : Rated Load Amperes (A)
- OFM** : Outdoor Fan Motor
- IFM** : Indoor Fan Motor
- kW** : Fan Motor rated output (kW)
- FLA** : Full Load Amperes (A)

## 10. Sound Levels

### 10.1 Sound Pressure Levels

#### ■ Overall



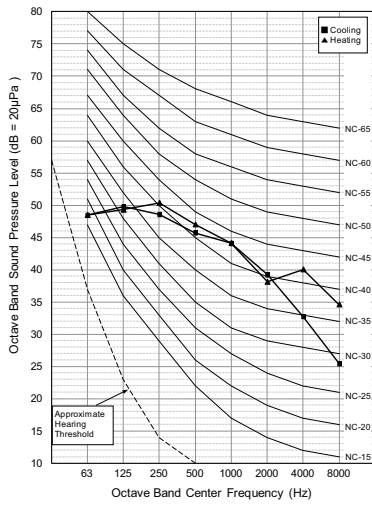
#### Note

1. Data is valid at free field condition.
2. Reference acoustic pressure  $0\text{dB} = 20\mu\text{Pa}$ .
3. Data is valid at nominal operation condition.  
Refer to the Model Specifications for nominal conditions (Power source and Ambient temperature, etc)
4. Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
5. Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed.

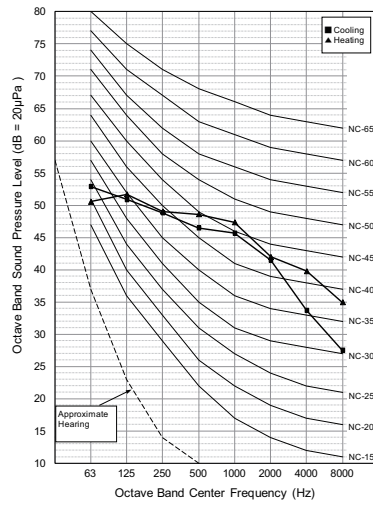
Model	Sound Pressure Levels [dB(A)]	
	Cooling	Heating
AUUW09GA0 [UU09W UL0]	47	50
AUUW12GA0 [UU12W UL0]	49	52
AUUW18GAE [UU18W UE4]	47	52
AUUW24GAE [UU24W U44]	48	52
AUUW30GAE [UU30W U44]	48	52
AUUW366D2 [UU36W UO2]	53	54
AUUW426D2 [UU42W U32]	52	54
AUUW486D2 [UU48W U32]	52	54
AUUW606D2 [UU60W U32]	52	54
AUUW368D2 [UU37W UO2]	53	54
AUUW428D2 [UU43W U32]	52	54
AUUW488D2 [UU49W U32]	52	54
AUUW608D2 [UU61W U32]	52	54
AUUW70LAE [UU70W U34]	55	58
AUUW85LAE [UU85W U74]	59	60

# 10. Sound Levels

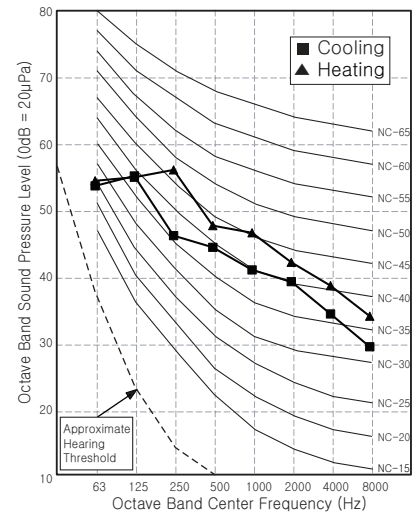
**AUUW09GA0 [UU09W UL0]**



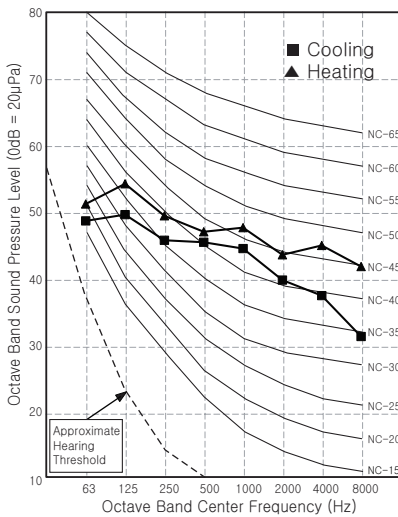
**AUUW12GA0 [UU12W UL0]**



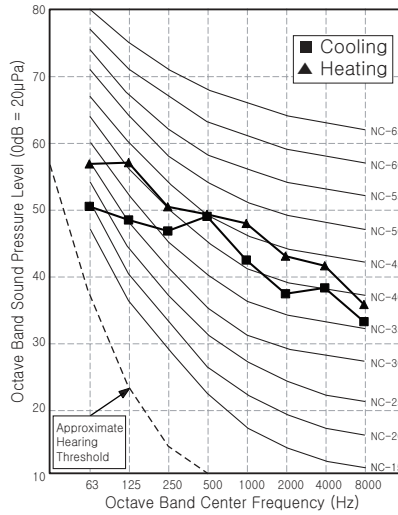
**AUUW18GAE [UU18W UE4]**



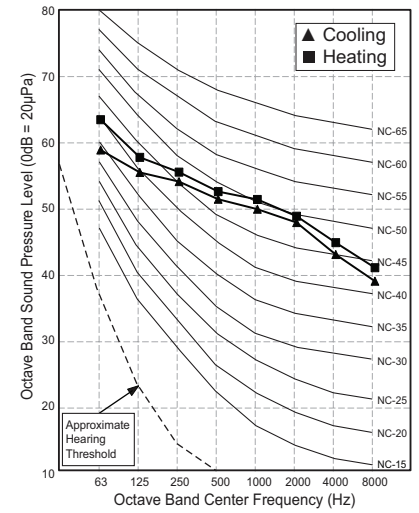
**AUUW24GAE [UU24W U44]**



**AUUW30GAE [UU30W U44]**



**AUUW366D2 [UU36W UO2]  
AUUW368D2 [UU37W UO2]**

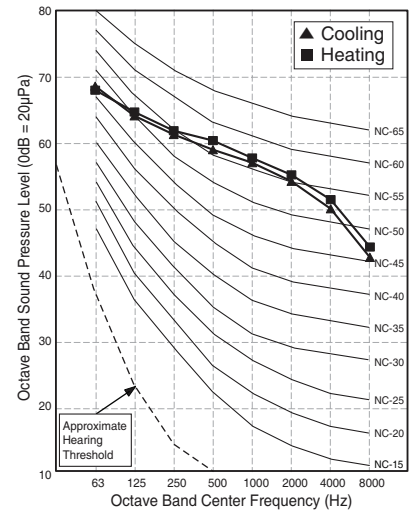
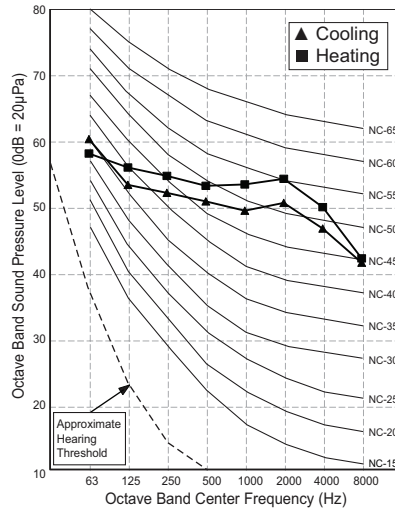
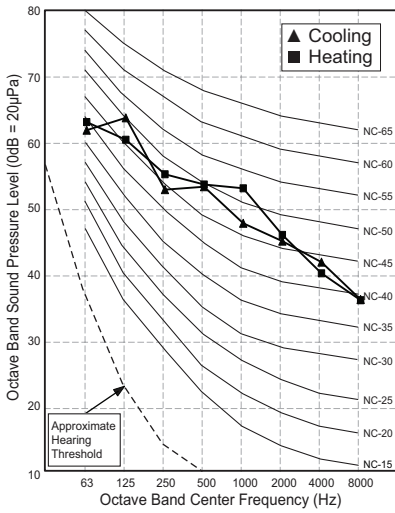


# 10. Sound Levels

- AUW426D2 [UU42W U32]
- AUW486D2 [UU48W U32]
- AUW606D2 [UU60W U32]
- AUW428D2 [UU43W U32]
- AUW488D2 [UU49W U32]
- AUW608D2 [UU61W U32]

AUW70LAE [UU70W U34]

AUW85LAE [UU85W U74]



# 10. Sound Levels

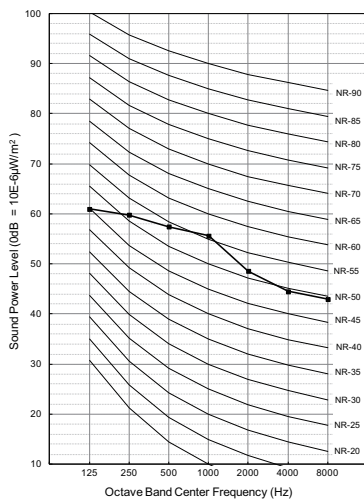
## 10.2 Sound Power Levels

### Note

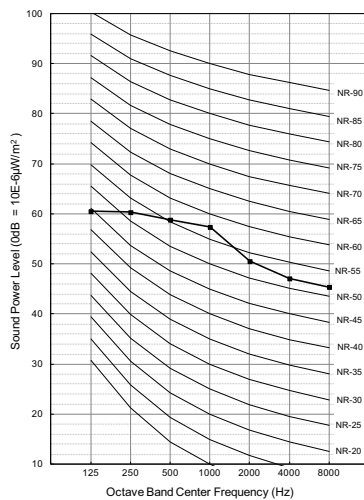
1. Data is valid at diffuse field condition.
2. Reference acoustic intensity 0dB =  $10E-6\mu W/m^2$
3. Sound power level is measured on the rated condition in the reverberation rooms. Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
4. Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
5. Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment in installed.

Model	Sound Power Level [dB(A)]
	Cooling
AUUW09GA0 [UU09W UL0]	65
AUUW12GA0 [UU12W UL0]	65
AUUW18GAE [UU18W UE4]	63
AUUW24GAE [UU24W U44]	67
AUUW30GAE [UU30W U44]	68
AUUW366D2 [UU36W UO2]	66
AUUW426D2 [UU42W U32]	67
AUUW486D2 [UU48W U32]	68
AUUW606D2 [UU60W U32]	71
AUUW368D2 [UU37W UO2]	66
AUUW428D2 [UU43W U32]	67
AUUW488D2 [UU49W U32]	68
AUUW608D2 [UU61W U32]	71
AUUW70LAE [UU70W U34]	73
AUUW85LAE [UU85W U74]	74

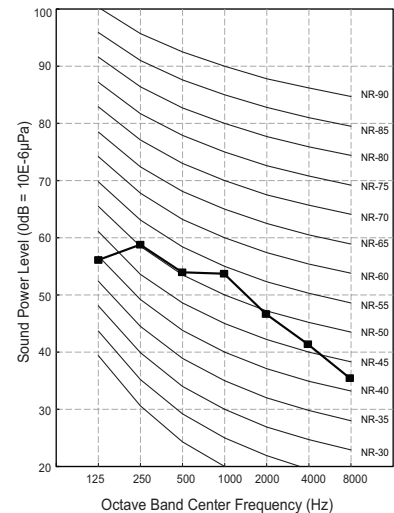
**AUUW09GA0 [UU09W UL0]**



**AUUW12GA0 [UU12W UL0]**



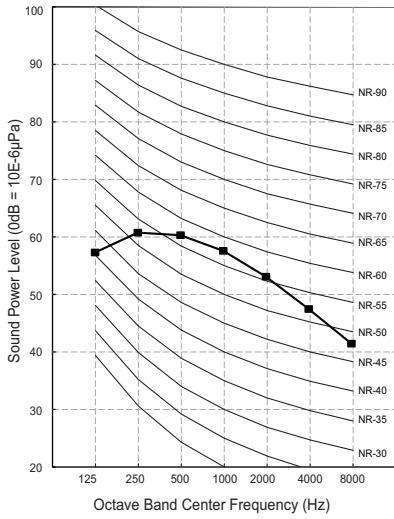
**AUUW18GAE [UU18W UE4]**



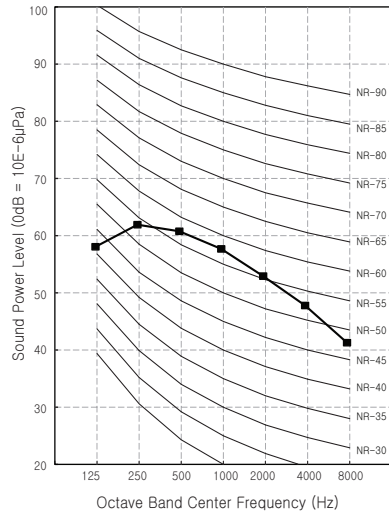


# 10. Sound Levels

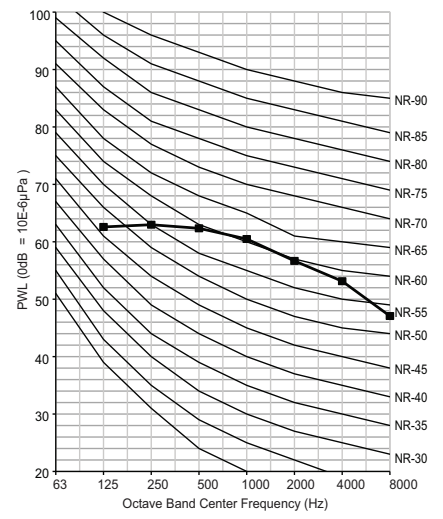
**AUW24GAE [UU24W U44]**



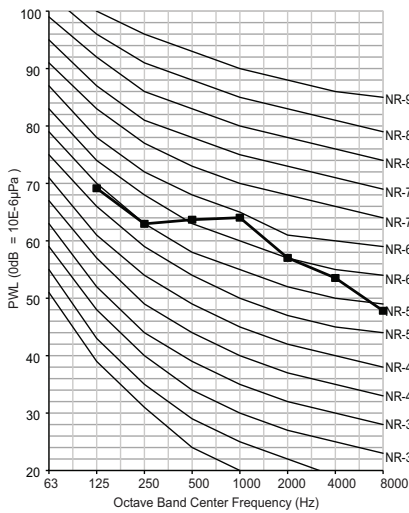
**AUW30GAE [UU30W U44]**



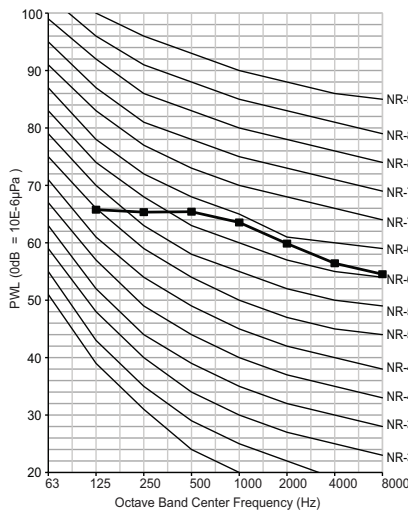
**AUW366D2 [UU36W UO2]  
AUW368D2 [UU37W UO2]**



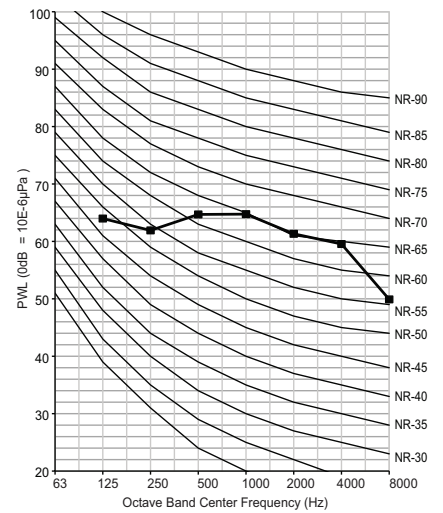
**AUW426D2 [UU42W U32]  
AUW428D2 [UU43W U32]**



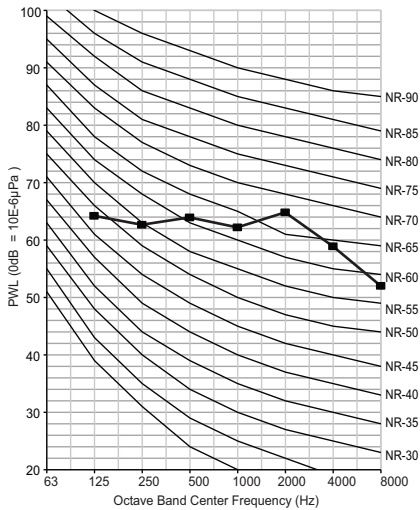
**AUW486D2 [UU48W U32]  
AUW488D2 [UU49W U32]**



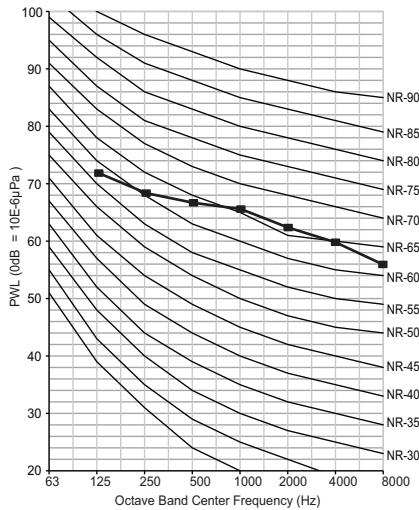
**AUW606D2 [UU60W U32]  
AUW608D2 [UU61W U32]**



**AUW70LAE [UU70W U34]**



**AUW85LAE [UU85W U74]**



# **SINGLE CAC**

Outdoor Unit

## **Standard Inverter - Synchro**

- 1. Power Supply**
- 2. List of Functions**
- 3. Combination Table**
- 4. Piping Length & Height**
- 5. Simultaneous Operation Setting**
- 6. Piping Diagrams**
- 7. Accessories**



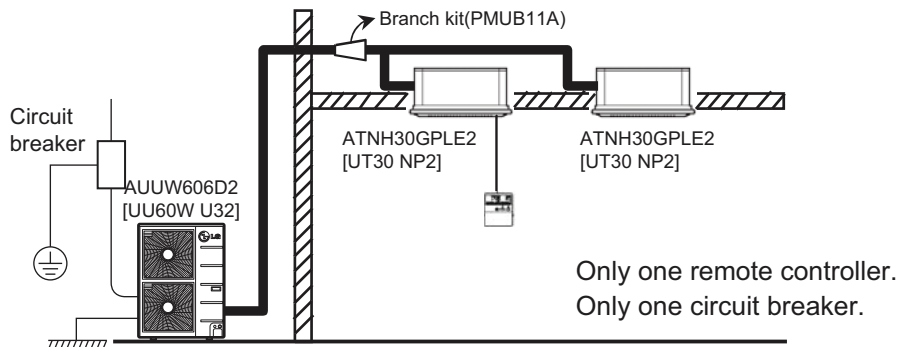
# 1. Power Supply

Type	OutdoorUnit	Capacity(kW)	Circuit BreakerCapacity	PowerSupply
1 Phase Inverter	AUW426D2 [UU42W U32]	12.5	40A	1Ø, 220-240 V, 50Hz
	AUW486D2 [UU48W U32]	14.0		
	AUW606D2 [UU60W U32]	15.0		
3 Phase Inverter	AUW428D2 [UU43W U32]	12.5	20A	3Ø, 380-415 V, 50Hz
	AUW488D2 [UU49W U32]	14.0		
	AUW608D2 [UU61W U32]	15.0		
	AUW70LAE [UU70W U34]	19.0	30A	
	AUW85LAE [UU85 U74]	23.0		

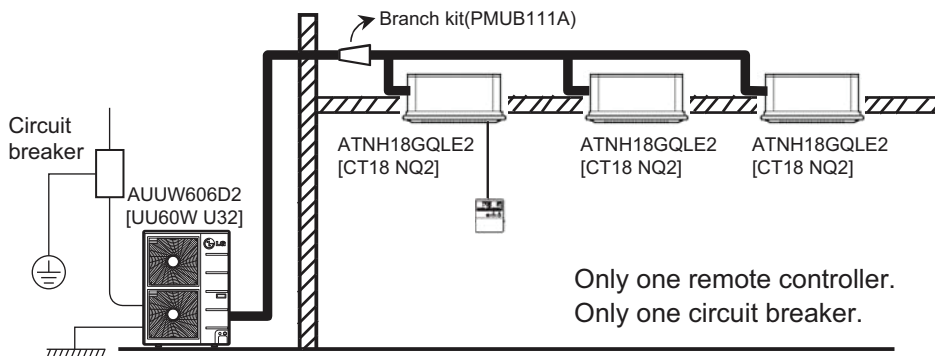
## External wiring procedure

- The power supply work is needed only to the outdoor unit. The power supply to the indoor unit is conducted through the transmission wiring. Therefore, the power supply work can be carried out at just one place of the outdoor unit. It will contribute to simplify the work procedure and to save cost.
- Wiring cable size must comply with the applicable local and national code.

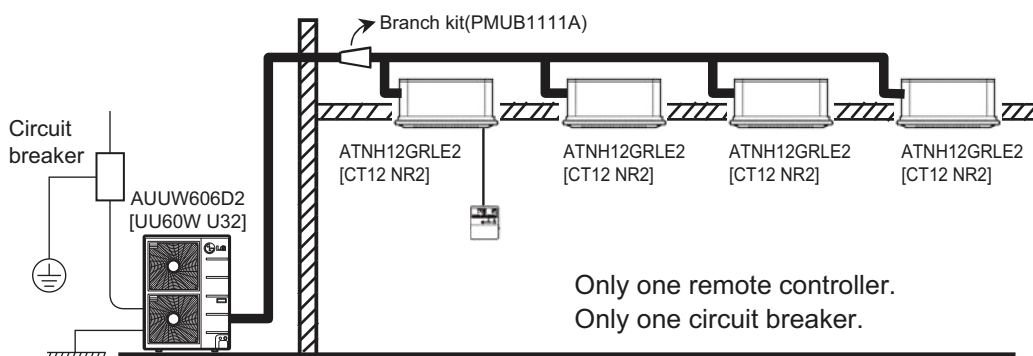
### (Ex. Duo simultaneous operation)



### (Ex. Trio simultaneous operation)



### (Ex. Quartets imultaneous operation)



## 2. List of Functions

### ■ 1 Phase Inverter - Synchro

#### ◆ List of function

Category	Functions	AUUW426D2 [UU42W U32], AUUW486D2 [UU48W U32] AUUW606D2 [UU60W U32]
Reliability	Defrost / Deicing	O
	High pressure switch	X
	Low pressure switch	X
	Phase protection	X
	Restart delay (3-minutes)	O
	Self diagnosis	O
	Soft start	O
Convenience	Test function	O
	Night Silent Operation	O
	Peak Control	X
	Mode Lock	X
	Forced Cooling Operation (Outdoor Unit)	O
Network function	Network solution(LGAP)	X
ODU Dry Contact		X

#### Note

1. O : Applied, X : Not applied

Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.

Accessory line-ups varies by region, so check your local catalogue or local sales material.

#### ◆ Accessory Compatibility List

Category	Product	Etc	AUUW426D2 [UU42W U32] AUUW486D2 [UU48W U32] AUUW606D2 [UU60W U32]	
Central Controller	Simple	PQCSZ250S0	AC EZ	X
	AC Ez Touch	PACEZA000	AC Ez Touch	X
	AC Smart	PACS5A000	AC Smart 5	X
	ACP	PACP5A000	ACP 5	X
	AC Manager <sup>2)</sup>	PACM5A000	AC Manager 5	X
Gateway	ODU PI485	PMNFP14A1	PI 485 Gateway	X
	Low Ambient Kit	PRVC2	From MULTI V 4 series	O(Logical operation)
	AHU Comm. Kit	PAHCMR000	Return / Room Air Control	O
		PAHCMS000	Supply Air Control by DDC	X
	BACnet	PQNFB17C0	ACP BACnet	X
Lonworks	PLNWKB000	ACP Lonworks	X	

#### Note

1. O: Possible, X: Impossible, -: Not applicable

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

3. 2) : ACP or AC Smart is needed.

4. Compatibility of individual controller(wireless/wired remote controller) could be found with function list on Indoor Unit's PDB.

5. If you need more detail, please refer to the **BECON** PDB or the manual of product.

(<http://partner.lge.com/global> : Home> Doc.Library> Product > Control(BECON))

## 2. List of Functions

### ■ 3 Phase Inverter - Synchro

#### ◆ List of function

Category	Functions	AUUW428D2 [UU43W U32], AUUW488D2 [UU49W U32] AUUW608D2 [UU61W U32]
Reliability	Defrost / Deicing	O
	High pressure switch	X
	Low pressure switch	X
	Phase protection	O
	Restart delay (3-minutes)	O
	Self diagnosis	O
	Soft start	O
Convenience	Test function	O
	Night Silent Operation	O
	Peak Control	X
	Mode Lock	X
	Forced Cooling Operation (Outdoor Unit)	O
Network function	Network solution(LGAP)	O
ODU Dry Contact		X

#### Note

1. O : Applied, X : Not applied

Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.

Accessory line-ups varies by region, so check your local catalogue or local sales material.

#### ◆ Accessory Compatibility List

Category	Product	Etc	AUUW428D2 [UU43W U32] AUUW488D2 [UU49W U32] AUUW608D2 [UU61W U32]	
Central Controller	Simple	PQCSZ250S0	AC EZ	O
	AC Ez Touch	PACEZA000	AC Ez Touch	O
	AC Smart	PACS5A000	AC Smart 5	X
	ACP	PACP5A000	ACP 5	X
	AC Manager <sup>2)</sup>	PACM5A000	AC Manager 5	X
Gateway	ODU PI485	PMNFP14A1	PI 485 Gateway	O
	Low Ambient Kit	PRVC2	From MULTI V 4 series	O(Logical operation)
	AHU Comm. Kit	PAHCMR000	Return / Room Air Control	O
		PAHCMS000	Supply Air Control by DDC	X
	BACnet	PQNFB17C0	ACP BACnet	X
Lonworks	PLNWKB000	ACP Lonworks	X	

#### Note

1. O: Possible, X: Impossible, -: Not applicable

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

3. 2) : ACP or AC Smart is needed.

4. Compatibility of individual controller(wireless/wired remote controller) could be found with function list on Indoor Unit's PDB.

5. If you need more detail, please refer to the **BECON** PDB or the manual of product.

(<http://partner.lge.com/global> : Home> Doc.Library> Product > Control(BECON))

## 2. List of Functions

### ◆ List of function

Category	Functions	AUUW70LAE [UU70W U34], AUUW85LAE [UU85W U74]
Reliability	Defrost / Deicing	O
	High pressure switch	X
	Low pressure switch	X
	Phase protection	O
	Restart delay (3-minutes)	O
	Self diagnosis	O
	Soft start	O
Convenience	Test function	O
	Night Silent Operation	O
	Peak Control	O
	Mode Lock	O
	Forced Cooling Operation (Outdoor Unit)	O
Network function	Network solution(LGAP)	O
ODU Dry Contact		X

#### Note

1. O : Applied, X : Not applied

Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field.

Accessory line-ups varies by region, so check your local catalogue or local sales material.

### ◆ Accessory Compatibility List

Category	Product	Etc	AUUW70LAE [UU70W U34] AUUW85LAE [UU85W U74]	
Central Controller	Simple	PQCSZ250S0	AC EZ	O
	AC Ez Touch	PACEZA000	AC Ez Touch	O
	AC Smart	PACS5A000	AC Smart 5	X
	ACP	PACP5A000	ACP 5	X
	AC Manager <sup>2)</sup>	PACM5A000	AC Manager 5	X
Gateway	ODU PI485	PMNFP14A1	PI 485 Gateway	O
	Low Ambient Kit	PRVC2	From MULTI V 4 series	O(Logical operation)
	AHU Comm. Kit	PAHCMR000	Return / Room Air Control	O
		PAHCMS000	Supply Air Control by DDC	O
	BACnet	PQNFB17C0	ACP BACnet	X
Lonworks	PLNWKB000	ACP Lonworks	X	

#### Note

1. O: Possible, X: Impossible, - : Not applicable

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

3. 2) : ACP or AC Smart is needed.

4. Compatibility of individual controller(wireless/wired remote controller) could be found with function list on Indoor Unit's PDB.

5. If you need more detail, please refer to the **BECON** PDB or the manual of product.

(<http://partner.lge.com/global> : Home> Doc.Library> Product > Control(BECON))

### 3. Combination Table

#### ■ Possible combinations

	Possible combination of indoor units								
	Synchro								
	Duo			Trio			Quartet		
IDU : INDOOR UNIT ODU : OUTDOOR UNIT BD : BRANACH DISTRIBUTOR UNIT REMO : WIRED REMOTE CONTROLLER									
MODEL	Cas- sette	Duct	Ceiling Suspended	Cas- sette	Duct	Ceiling Suspended	Cas- sette	Duct	Ceiling Suspended
UU42W/UU43W	CT24 NP2(4)*2	CM24 N14*2 CB24L N32*2	CV24 NJ2*2	CT18 NQ2(4)*3	CM18 N14*3 CB18L N22*3	CV18 NJ2*3	CT12 NR2*4	CB12L N22*4	-
UU48W/UU49W	CT24 NP2(4)*2	CM24 N14*2 CB24L N32*2	CV24 NJ2*2	CT18 NQ2(4)*3	CM18 N14*3 CB18L N22*3	CV18 NJ2*3	CT12 NR2*4	CB12L N22*4	-
UU60W/UU61W	UT30 NP2(4)*2	UM30 N14*2	UV30 NJ2*2	CT18 NQ2(4)*3	CM18 N14*3 CB18L N22*3	CV18 NJ2*3	CT12 NR2*4	CB12L N22*4	-
UU70W	UT36 NN2*2	UM36 N24*2	UV36 NK2*2	CT24 NP2(4)*3	CM24 N14*3 CB24L N32*3	CV24 NJ2*3	CT18 NQ2(4)*4	CM18 N14*4 CB18L N22*4	CV18 NJ2*4
UU85W	UT42 NM2*2	UM42 N24*2	UV42 NL2*2	CT24 NP2(4)*3	CM24 N14*3 CB24L N32*3	CV24 NJ2*3	CT18 NQ2(4)*4	CM18 N14*4 CB18L N22*4	CV18 NJ2*4
Branch Kit	PMUB11A			PMUB111A			PMUB1111A		

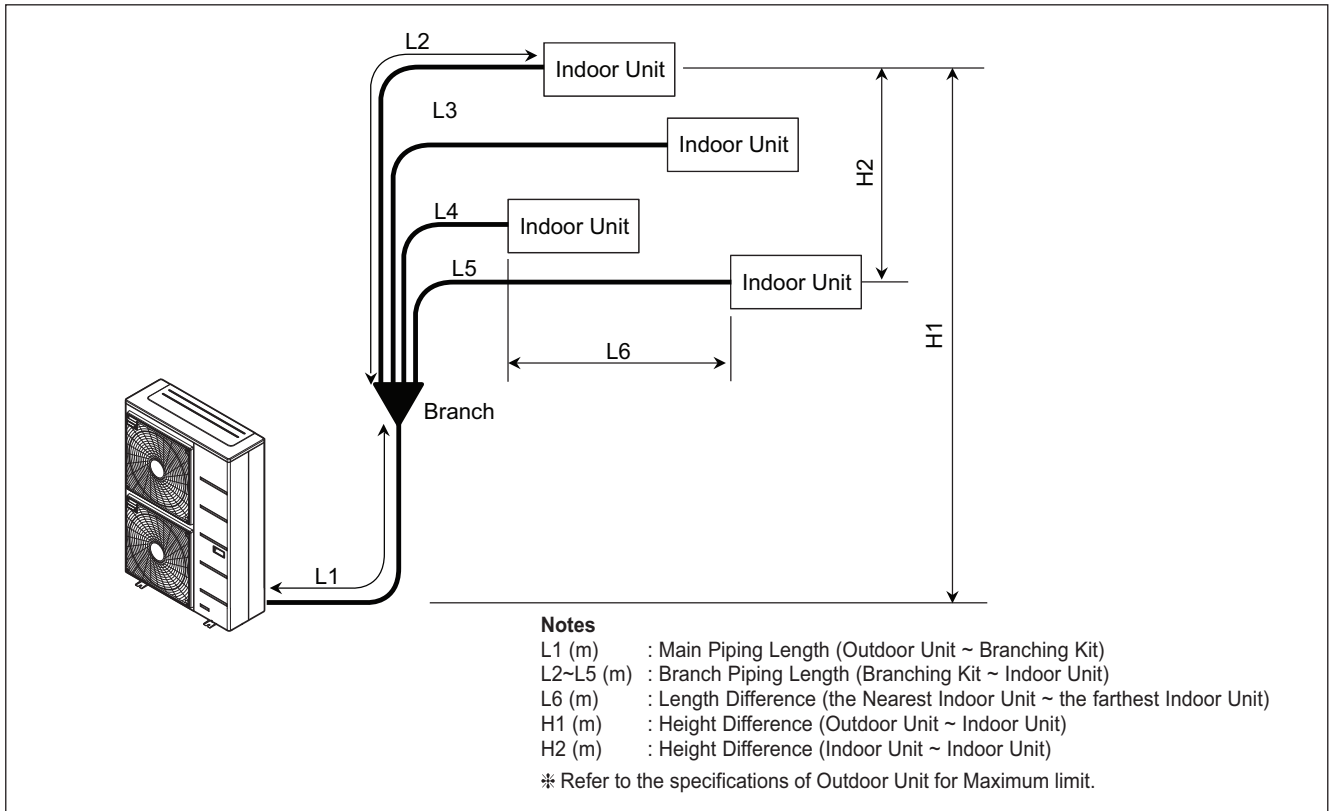
**Note**

- Possible indoor units: Single CAC indoor unit series
  - Dry contact & Zone control & Auto changeover is not available which is connected with synchro.
  - When using synchro operation
    - Do not use wireless remote controller
    - Use only one wired remote controller in the indoor units.
    - Some Central controllers and some functions of central controller can not be available with synchrooperation.
- Branch kits are required for operating Synchro models.

# 4. Piping Length & Height

## ■ Synchro Operation

Install the branch pipe so that pipe length and difference between high and low will not exceed below Spec.



[Unit : m]

Pipe Length & Height	Spec(MA×.)
Total(L1+L2+L3+L4+L5)	80
Main Pipe(L1)	45
Branch Pipe (L2+L3+L4+L5) Each	40 15
Indoor-Outdoor (H1)	30
Indoor-Indoor (H2)	1
L6	10

- When installing the branch pipe, direction and angle of installation is not limited.
- Take care so that burrs and foreign material may not enter into the cutting surface when connecting.
- Connect remaining those by cutting or direct insertion to the diameter of pipe.

## 5. Simultaneous Operation Setting

### 12.5~15.0kW Outdoor Unit PCB Setting Procedure

1. SW01N (PIP SW2) Setting

Set the SW01N (PIP SW2) as below Table (a)

2. Auto Addressing Method

Addressing work assigns address to each indoor unit. When firstly installing product or replacing the indoor unit PCB.

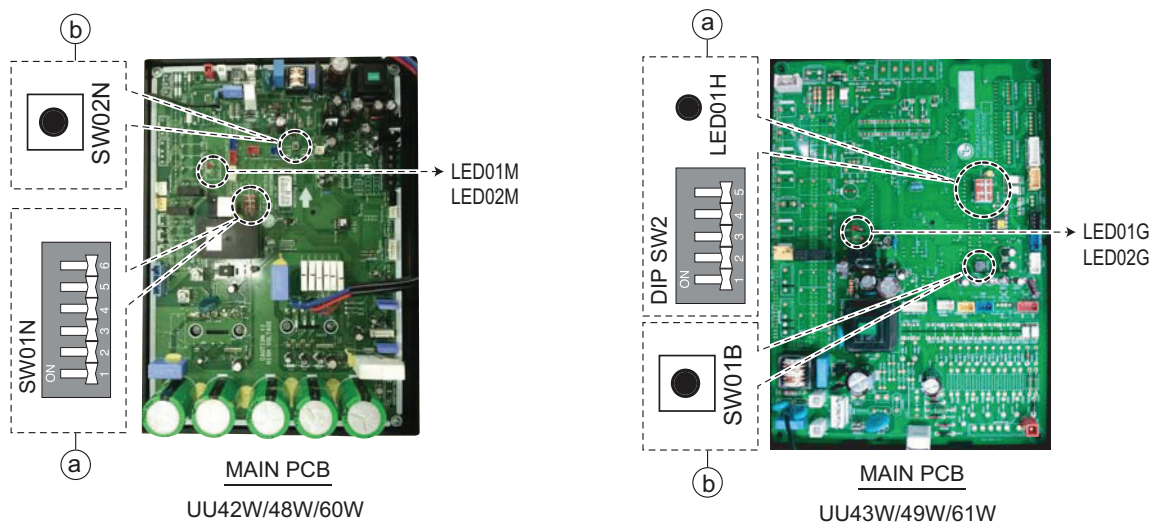
Auto Addressing work should be done for simultaneous operation.

• Work procedure

1. Set SW01N (PIP SW2) correctly.

2. Turn on main power.

3. Press the SW02N (SW01B) for about 3 seconds within 3 minutes After main power on.(b)



4. After step 3., the LED01M/G (red LED) and LED02M/G (green LED) rapidly flickers. When Addressing work is done, green LED is off, else LED (LED01M/G) stops flickering and lights continuously. Address of indoor unit is indicated on the wired remote control display window. (CH01, CH02, CH03, CH04)

5. Press (i) button to turn on the indoor.

6. If you fail to perform the Addressing work, repeat step 2.~5.

#### Table SW01N (PIP SW2) Setting

SW01N (PIP SW2)	Indoor Unit No.
	1(Single) : Default
	2(Duo)
	3(Trio)
	4(Quartet)

### 19.0 / 23.0 kW

1. SW01D(DIP S/W) Setting

Set the SW01D(DIP S/W) as below Table (a)

## 5. Simultaneous Operation Setting

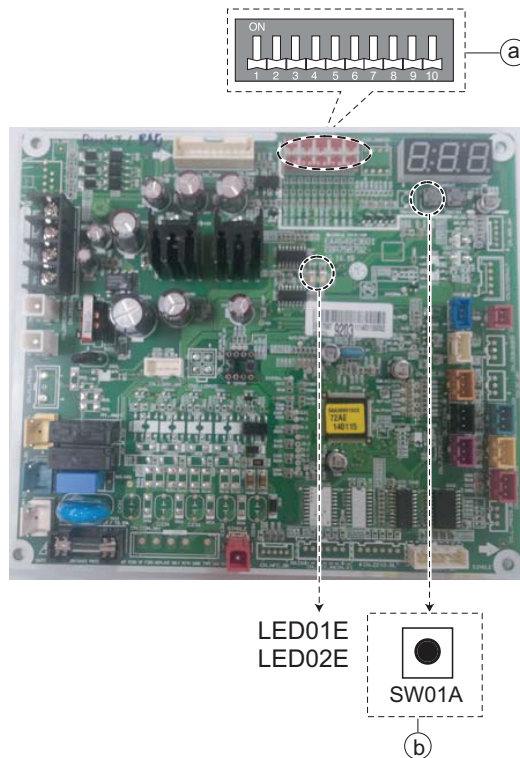
### 2. Auto Addressing Method

Addressing work assigns address to each indoor unit. When firstly installing product or replacing the indoor unit PCB.

Auto Addressing work should be done for simultaneous operation.

- Work procedure

1. Set SW01D(DIP S/W) correctly.
2. Turn on main power.
3. Press the SW01A for about 3 seconds within 3 minutes After main power on.(b)
4. After step 3., the LED01E (red LED) and LED02E (green LED) rapidly flickers. When Addressing work is done, green LED is off, else LED (LED01E) stops flickering and lights continuously. Address of indoor unit is indicated on the wired remote control display window. (CH01, CH02, CH03,CH04)



5. Press (b) button to turn on the indoor.
6. If you fail to perform the Addressing work, repeat step 2.-5.

### ◆ Table SW01D(DIP S/W) Setting

SW01D(DIP S/W)	Indoor Unit No.
	1(Single) : Default
	2(Duo)
	3(Trio)
	4(Quartet)



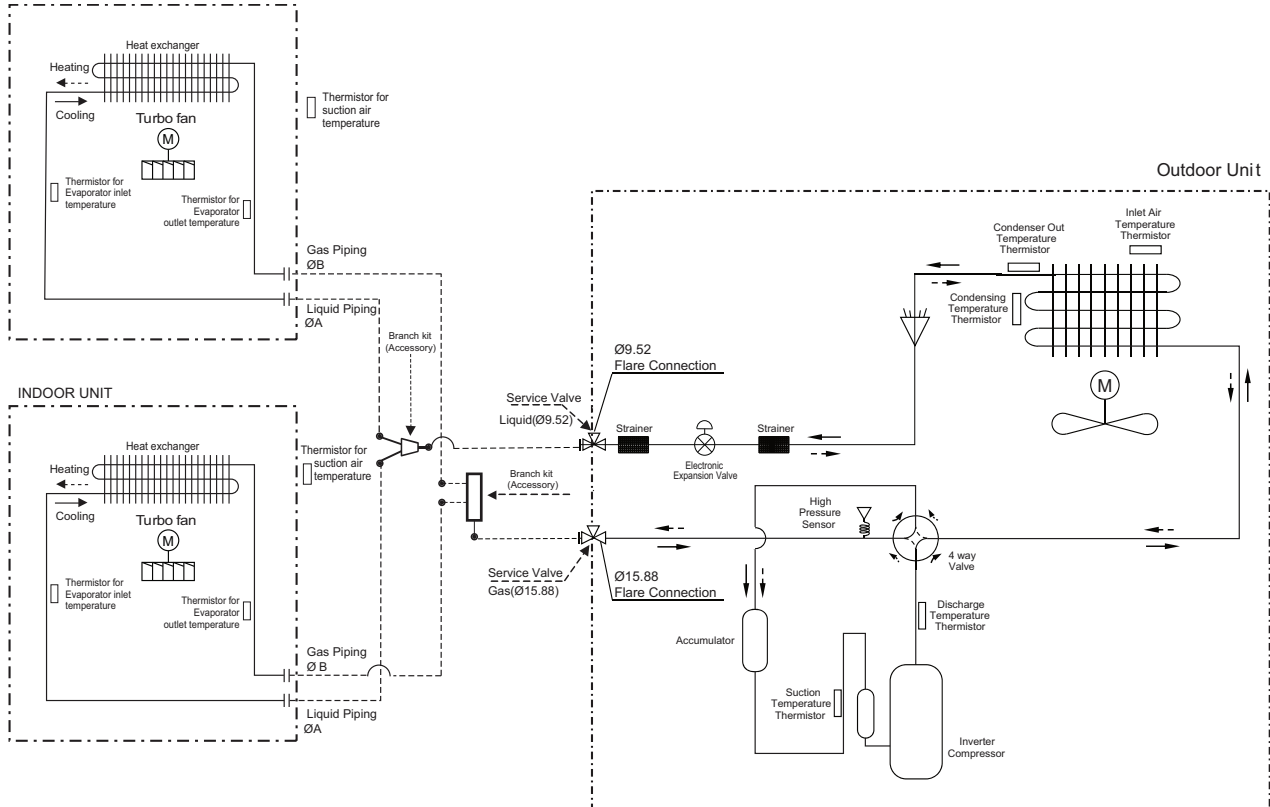
# 6. Piping Diagrams

## ■ "Synchro" Duo

AUUW426D2 [UU42W U32], AUUW486D2 [UU48W U32], AUUW606D2 [UU60W U32]

AUUW428D2 [UU43W U32], AUUW488D2 [UU49W U32], AUUW608D2 [UU61W U32]

AUUW70LAE [UU70W U34], AUUW85LAE [UU85W U74]



Indoor Unit (kW)	Liquid Pipe, A (mm)	Gas Pipe, B (mm)
7.1	9.52	15.88
8.0		
12		

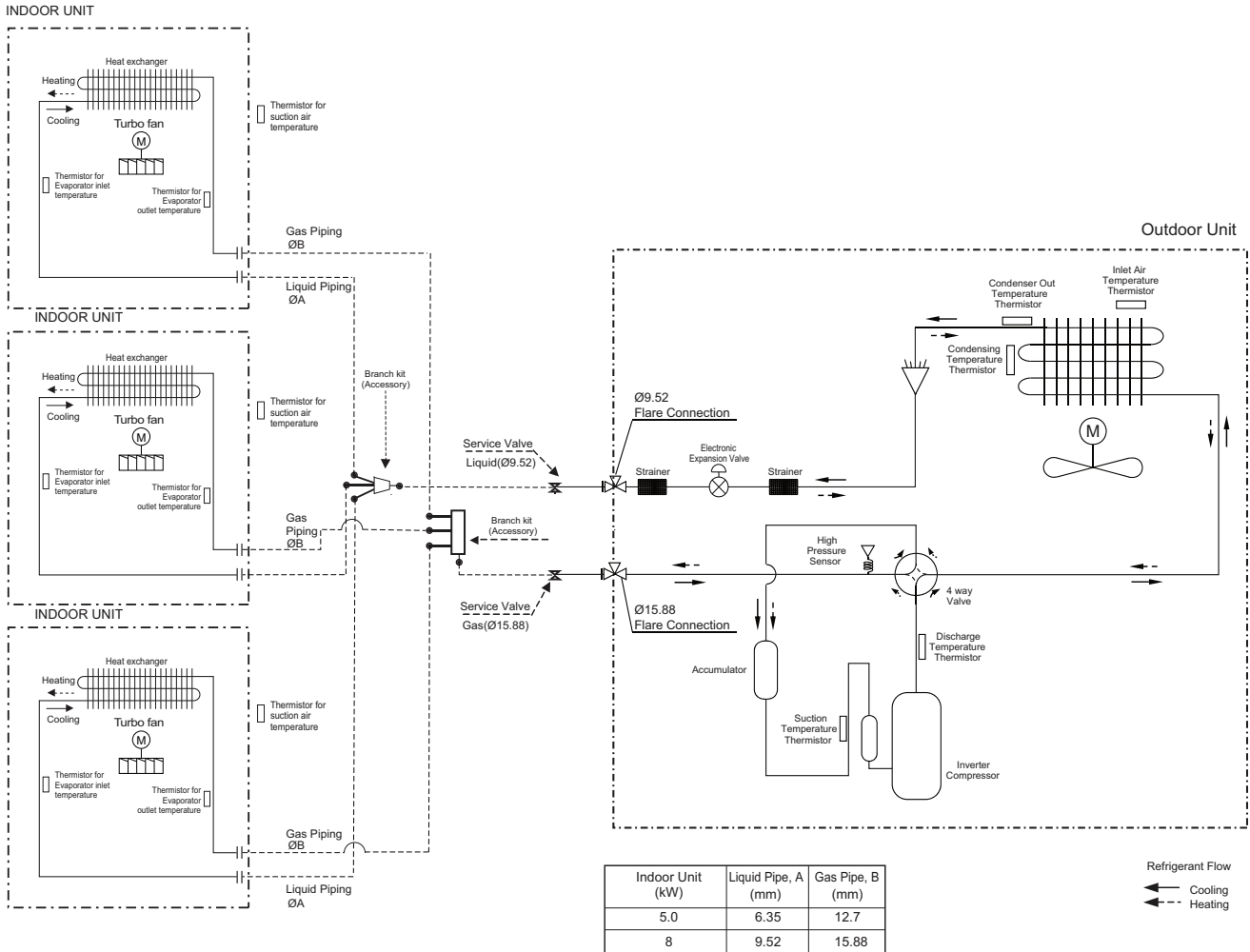
Refrigerant Flow  
 ← Cooling  
 ←--- Heating

Note :  
 1. The pipes between the indoor units and the branch kits must have same dimensions as indoor unit connections.

# 6. Piping Diagrams

## ■ "Synchro" Trio

AUW426D2 [UU42W U32], AUW486D2 [UU48W U32], AUW606D2 [UU60W U32]  
 AUW428D2 [UU43W U32], AUW488D2 [UU49W U32], AUW608D2 [UU61W U32]  
 AUW70LAE [UU70W U34], AUW85LAE [UU85W U74]

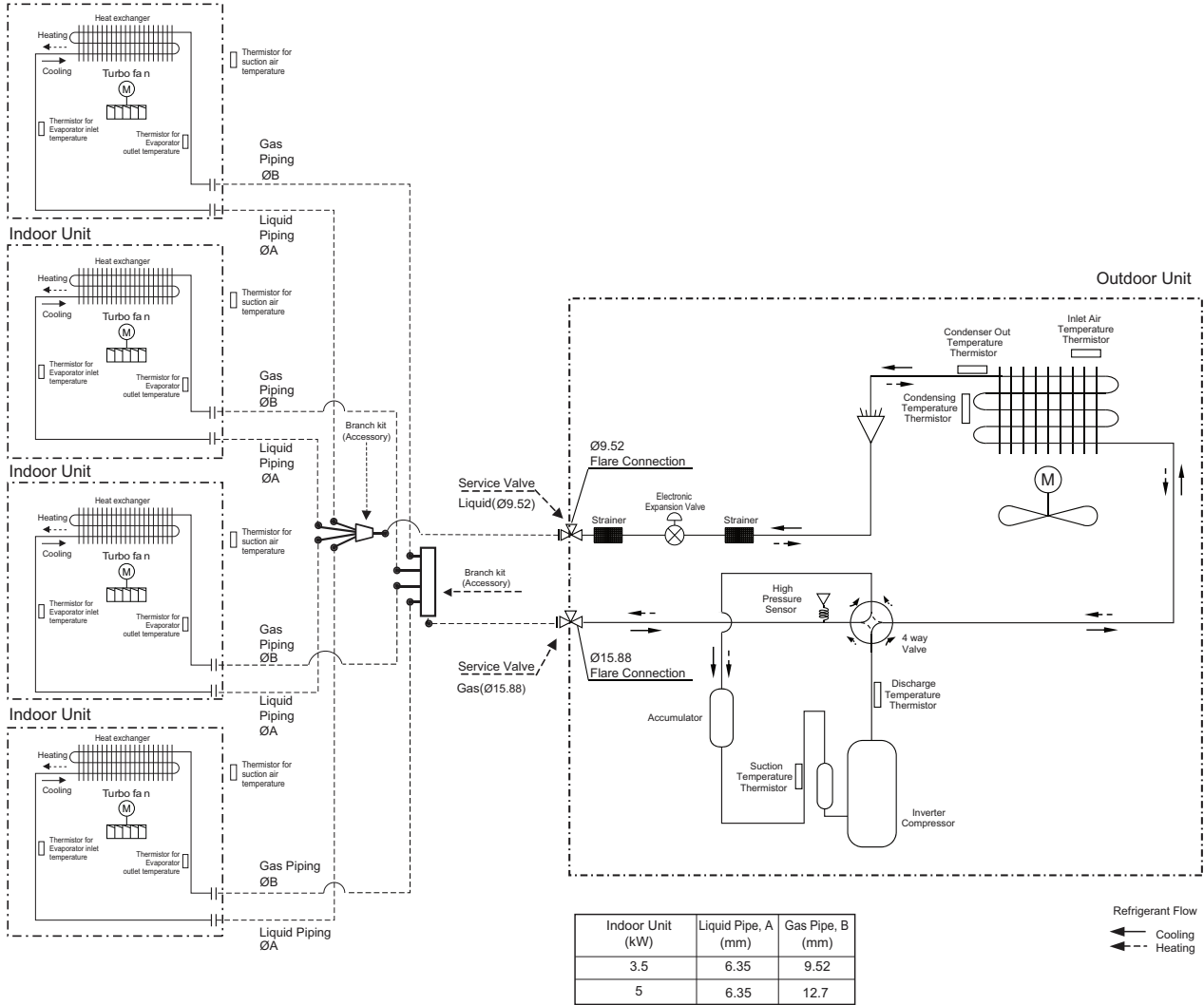


Note :  
 1. The pipes between the indoor units and the branch kits must have same dimensions as indoor unit connections.

# 6. Piping Diagrams

## ■ "Synchro" Quartet

AUUW426D2 [UU42W U32], AUUW486D2 [UU48W U32], AUUW606D2 [UU60W U32]  
 AUUW428D2 [UU43W U32], AUUW488D2 [UU49W U32], AUUW608D2 [UU61W U32]  
 AUUW70LAE [UU70W U34], AUUW85LAE [UU85W U74]



Note :  
 1. The pipes between the indoor units and the branch kits must have same dimensions as indoor unit connections.

## 7. Accessories

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### ■ Optional accessories

Name	ModelNo.	Indoorclassification	CapacityRatio(%)
Branch Kit	PMUB11A	"Synchro" Duo	50:50(1:1)
	PMUB111A	"Synchro" Trio	33:33:33(1:1:1)
	PMUB1111A	"Synchro" Quartet	25:25:25:25(1:1:1:1)

# **SINGLE CAC**

Outdoor Unit

## **Compact Inverter**

- 1. List of Functions**
- 2. Specifications**
- 3. Dimensions**
- 4. Piping Diagrams**
- 5. Wiring Diagrams**
- 6. Capacity Tables**
- 7. Capacity Coefficient Factor**
- 8. Operation Range**
- 9. Electric Characteristics**
- 10. Sound Levels**

# 1. List of Functions

## ◆ List of function

Category	Functions	AUUW18GC0 [UU18WC UL0], AUUW24GC0 [UU24WC UE0] AUUW30GC0 [UU30WC UE0], AUUW36GC0 [UU36WC U40]
Reliability	Defrost / Deicing	O
	High pressure switch	X
	Low pressure switch	X
	Phase protection	X
	Restart delay (3-minutes)	O
	Self diagnosis	O
	Soft start	O
Convenience	Test function	O
	Night Silent Operation	O
	Peak Control	X
	Mode Lock	X
	Forced Cooling Operation (Outdoor Unit)	O
Network function	Network solution(LGAP)	X
ODU Dry Contact		X

### Note

1. O : Applied, X : Not applied

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

## ◆ Accessory Compatibility List

Category	Product	Etc	AUUW18GC0 [UU18WC UL0] AUUW24GC0 [UU24WC UE0] AUUW30GC0 [UU30WC UE0] AUUW36GC0 [UU36WC U40]	
Central Controller	Simple	PQCSZ250S0	AC EZ	X
	AC Ez Touch	PACEZA000	AC Ez Touch	X
	AC Smart	PACS5A000	AC Smart 5	X
	ACP	PACP5A000	ACP 5	X
	AC Manager <sup>2)</sup>	PACM5A000	AC Manager 5	X
Gateway	ODU PI485	PMNFP14A1	PI 485 Gateway	X
	Low Ambient Kit	PRVC2	From MULTI V 4 series	O (Logical operation)
	AHU Comm. Kit	PAHCMR000	Return / Room Air Control	X
		PAHCMS000	Supply Air Control by DDC	X
	BACnet	PQNFB17C0	ACP BACnet	X
Lonworks	PLNWKB000	ACP Lonworks	X	

### Note

1. O: Possible, X: Impossible, -: Not applicable

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

3. 2): ACP or AC Smart is needed.

4. Compatibility of individual controller(wireless/wired remote controller) could be found with function list on Indoor Unit's PDB.

5. If you need more detail, please refer to the **BECON** PDB or the manual of product.

(<http://partner.lge.com/global> : Home> Doc.Library> Product > Control(BECON))

## 2. Specifications

### ■ Combinational Specifications

Combination	Outdoor unit			AUUW18GC0 [UU18WC UL0]	AUUW24GC0 [UU24WC UE0]
	Indoor unit			ABNW18GBHC0 [UB18C NH0]	ABNW24GBHC0 [UB24C NH0]
Capacity	Cooling	Min.~Rated~Max.	kW	1.80 ~ 4.70 ~ 5.10	2.70 ~ 6.80 ~ 7.40
		Min.~Rated~Max.	Btu/h	6,140 ~ 16,040 ~ 17,410	9,210 ~ 23,210 ~ 25,260
	Heating	Min.~Rated~Max.	kW	1.70 ~ 5.20 ~ 5.70	1.90 ~ 7.50 ~ 8.20
		Min.~Rated~Max.	Btu/h	5,800 ~ 17,750 ~ 19,460	6,480 ~ 25,600 ~ 28,000
Power Input	Cooling	Rated	kW	1.63	2.33
	Heating	Rated	kW	1.67	2.40
Running Current	Cooling	Rated	A	7.30	9.40
	Heating	Rated	A	7.40	9.60
SEER / SCOP			Wh / Wh	5.11 / 3.81	5.38 / 3.81
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A / A	A / A
Annual Energy Consumption		Cooling / Heating	kWh	377 / 1,400	442 / 1,911

Combination	Outdoor unit			AUUW30GC0 [UU30WC UE0]	AUUW36GC0 [UU36WC U40]
	Indoor unit			ABNW30GM1A0 [UM30 N14]	ABNW36GM2A0 [UM36 N24]
Capacity	Cooling	Min.~Rated~Max.	kW	3.20~ 7.50 ~ 7.80	3.80 ~ 9.50 ~ 10.0
		Min.~Rated~Max.	Btu/h	10,900 ~ 25,600 ~ 26,600	13,000 ~ 32,400 ~ 34,100
	Heating	Min.~Rated~Max.	kW	3.60 ~ 8.00 ~ 8.80	4.00 ~ 10.0 ~ 10.50
		Min.~Rated~Max.	Btu/h	12,300 ~ 27,300 ~ 30,000	13,600 ~ 34,100 ~ 35,800
Power Input	Cooling	Rated	kW	2.68	3.35
	Heating	Rated	kW	2.25	2.93
Running Current	Cooling	Rated	A	12.0	14.9
	Heating	Rated	A	10.0	13.0
SEER / SCOP			Wh / Wh	5.60 / 3.90	5.60 / 3.81
Seasonal Energy Label (A++ to E Scale)		Cooling / Heating	-	A+ / A	A+ / A
Annual Energy Consumption		Cooling / Heating	kWh	469 / 2,082	594 / 2,388

#### 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 codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than  $\pm 1\%$  according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

## 2. Specifications

### Outdoor Unit Specifications

Outdoor unit				AUUW18GC0 [UU18WC UL0]	AUUW24GC0 [UU24WC UE0]
Power Supply			V, Ø, Hz	220-240 / 1 / 50	220-240 / 1 / 50
Starting Current	Cooling	Max.	A	-	-
	Heating	Max.	A	-	-
Wiring Connections	Power Supply Cable (included Earth)		No. x mm <sup>2</sup> (AWG)	5C x 2.5 (12)	5C x 2.5 (12)
Casing Color			-	Warm Gray	Warm Gray
Dimensions		W x H x D	mm	770 x 545 x 288	870 x 655 x 320
		W x H x D	inch	30-5/16 x 21-15/32 x 11-11/32	34-1/4 x 25-25/32 x 12-19/32
Net Weight			kg (lbs)	37.5 (82.6)	44.5 (98.1)
Compressor	Type		-	Twin Rotary	Twin Rotary
	Model		Model x No.	GKT141MAC x 1	GKT176MAC x 1
	Motor type		-	BLDC	BLDC
	Motor Output		W x No.	1,500 x 1	1,500 x 1
Refrigerant	Type		-	R410A	R410A
	Precharged Amount		g (oz)	1,300 (45.8)	1,400 (49.3)
	t-CO <sub>2</sub> eq.		-	2.714	2.923
	GWP		-	2,087.5	2,087.5
	Chargeless-Pipe Length		m (ft)	7.5 (24.6)	7.5 (24.6)
	Additional Charging Volume		g/m (oz/ft)	20 (0.7)	40 (1.4)
Control			-	Electronic Expansion Valve	Electronic Expansion Valve
Refrigerant Oil	Type		-	FVC68D	FVC68D
	Charged volume		cc x No.	570 x 1	670 x 1
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(2 x 24 x 14) x 1	(2 x 28 x 14) x 1
Fan	Type		-	Axial	Axial
	Air Flow Rate		m <sup>3</sup> /min x No.	28x1	50x1
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	43.0 x 1	85.4 x 1
Sound Pressure Level	Cooling	Rated	dB(A)	47	48
	Heating	Rated	dB(A)	49	50
Sound Power Level	Cooling	Max.	dB(A)	65	68
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 6.35 (1/4)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm(inch)	Ø 12.7 (1/2)	Ø 15.88 (5/8)
Piping Length	Max.		m (ft)	30 (98.4)	30 (98.4)
Maximum Height Difference	Outdoor Unit ~ Indoor Unit	Max.	m (ft)	30 (98.4)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-10 (14) ~ 48 (118.4)	-10 (14) ~ 48 (118.4)
	Heating	Min. ~ Max.	°C WB (°F WB)	-10 (14) ~ 18 (64.4)	-15 (5) ~ 18 (64.4)

#### 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 codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than ±1% according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.



## 2. Specifications

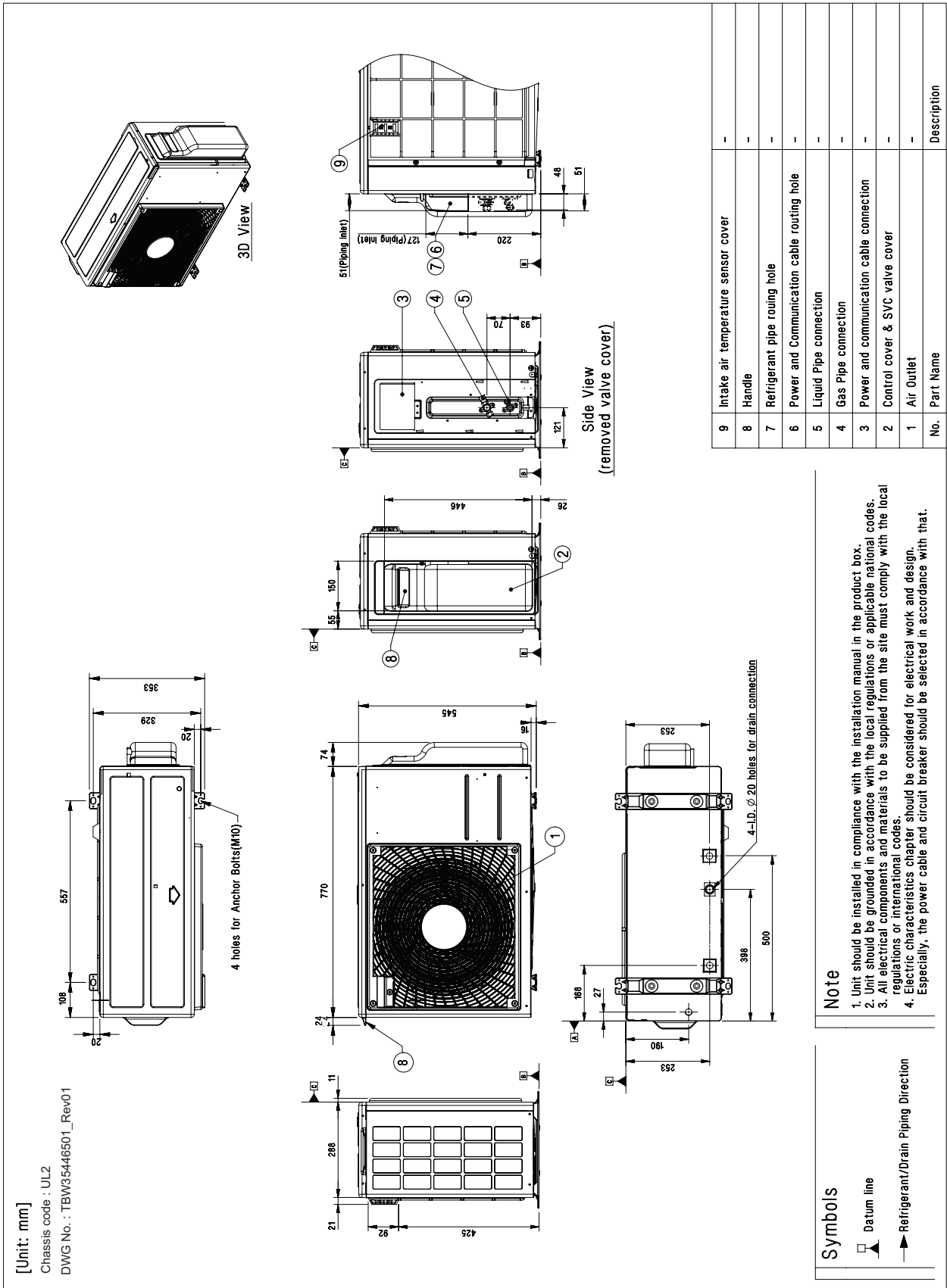
Outdoor unit				AUUW30GC0 [UU30WC UE0]	AUUW36GC0 [UU36WC U40]
Power Supply			V, $\emptyset$ , Hz	220-240 / 1 / 50	220-240 / 1 / 50
Starting Current	Cooling	Max.	A	-	-
	Heating	Max.	A	-	-
Wiring Connections	Power Supply Cable (included Earth)		No. x mm <sup>2</sup> (AWG)	3C x 2.5 (14)	3C x 2.5 (14)
Casing Color			-	Warm Gray	Warm Gray
Dimensions	W x H x D		mm	870 x 655 x 320	950 x 834 x 330
	W x H x D		inch	34-1/4 x 25-25/32 x 12-19/32	37-13/32 x 32-27/32 x 13
Net Weight			kg (lbs)	45.4 (100.0)	58.2 (128.3)
Compressor	Type		-	Twin Rotary	Twin Rotary
	Model		Model x No.	GKT208MAB x 1	GJT240MAA x 1
	Motor type		-	BLDC	BLDC
	Motor Output		W x No.	1,500 x 1	2,137 x 1
Refrigerant	Type		-	R410A	R410A
	Precharged Amount		g (oz)	1,600 (56.4)	2,200 (77.6)
	t-CO <sub>2</sub> eq.			3.340	4.593
	GWP			2,087.5	2,087.5
	Chargeless-Pipe Length		m (ft)	7.5 (24.6)	7.5 (24.6)
	Additional Charging Volume		g/m (oz/ft)	40 (0.43)	40 (0.43)
Control			-	Electronic Expansion Valve	Electronic Expansion Valve
Refrigerant Oil	Type		-	FVC68D	FVC68D
	Charged volume		cc x No.	670 x 1	900 x 1
Heat Exchanger	(Row x Column x Fins per inch) x No.			(2 x 28 x 18) x 1	(2 x 38 x 14) x 1
Fan	Type		-	Axial	Axial
	Air Flow Rate		m <sup>3</sup> /min x No.	50 x 1	58 x 1
Fan Motor	Type			BLDC	BLDC
	Output		W x No.	85.4 x 1	124.0 x 1
Sound Pressure Level	Cooling	Rated	dB(A)	51	54
	Heating	Rated	dB(A)	52	56
Sound Power Level	Cooling	Max.	dB(A)	70	70
Piping Connections	Liquid	Outer Dia.	mm(inch)	$\emptyset$ 9.52 (3/8)	$\emptyset$ 9.52 (3/8)
	Gas	Outer Dia.	mm(inch)	$\emptyset$ 15.88 (5/8)	$\emptyset$ 15.88 (5/8)
Piping Length		Max.	m (ft)	35 (114.8)	40 (131.2)
Maximum Height Difference	Outdoor Unit ~ Indoor Unit	Max.	m (ft)	30 (98.4)	30 (98.4)
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-10 (14.0) ~ 48 (118.4)	-10 (14.0) ~ 48 (118.4)
	Heating	Min. ~ Max.	°C WB (°F WB)	-10 (14.0) ~ 18 (64.4)	-10 (14.0) ~ 18 (64.4)

### 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 codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.
- Power factor could vary less than  $\pm 1\%$  according to the operating conditions.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.  
Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.  
Therefore, these values can be increased owing to ambient conditions during operation.
- Performances are based on the following conditions :
  - \*Cooling : Indoor Ambient Temp. 27°CDB / 19°CWB, Outdoor Ambient Temp. 35°CDB / 24°CWB
  - \*Heating : Indoor Ambient Temp. 20°CDB / 15°CWB, Outdoor Ambient Temp. 7°CDB / 6°CWB
  - Interconnected Pipe is standard length and difference of Elevation (Outdoor ~ Indoor Unit) is Zero.
- This product contains Fluorinated greenhouse gases.

# 3. Dimensions

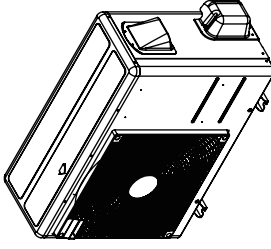
## AU UW18GC0 [UU18WC UL0]



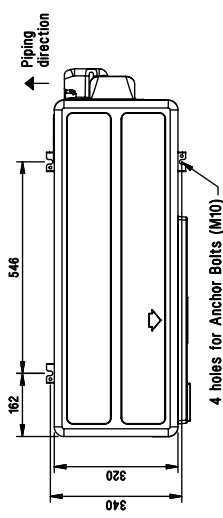
### 3. Dimensions

#### AUW24GC0 [UU24WC UE0] / AUW30GC0 [UU30WC UE0]

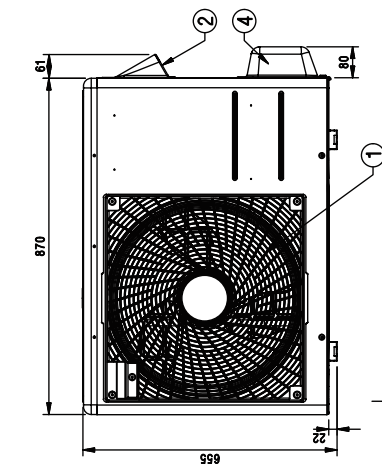
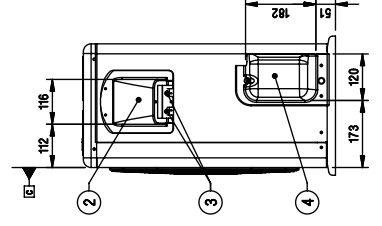
**[Unit: mm]**  
Chassis code : UE



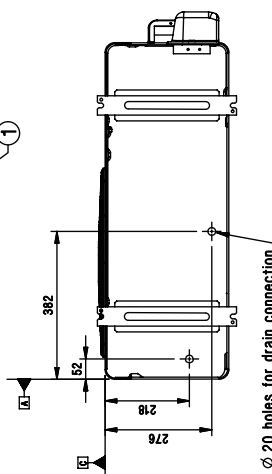
**3D View**



4 holes for Anchor Bolts (M10)

**Side View**  
(Valve cover removed)



2-∅20 holes for drain connection

**Note**

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

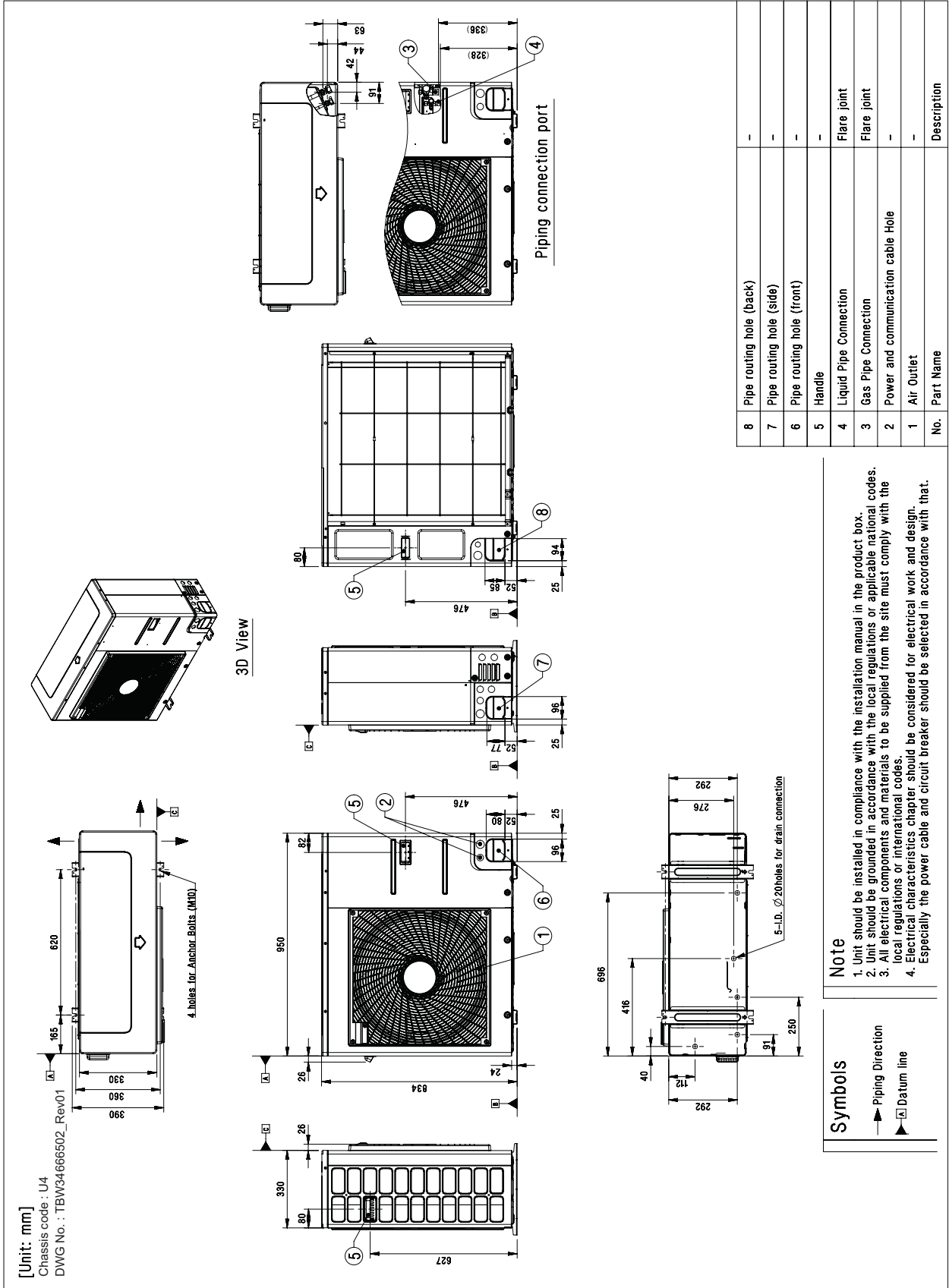
**Symbols**

- Piping Direction
- Datum line

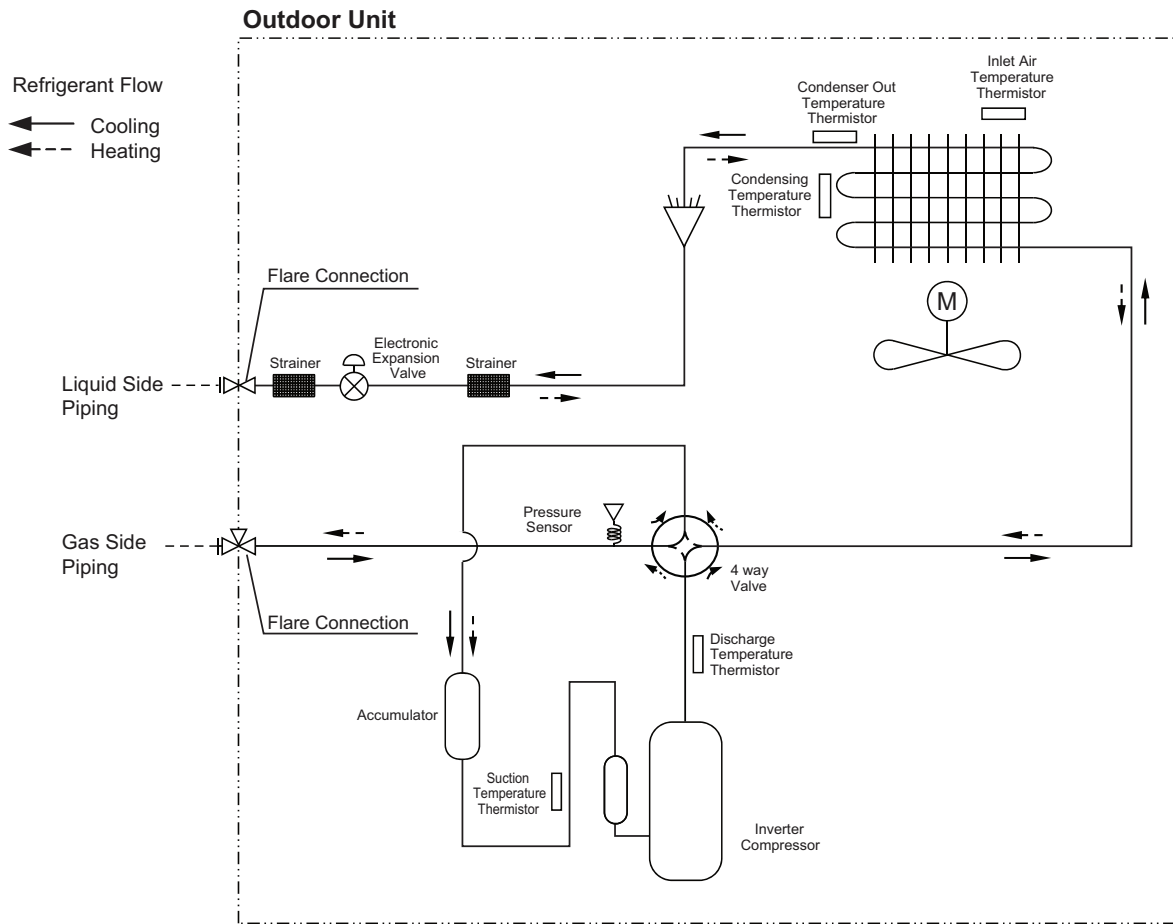
No.	Part Name	Description
6	Liquid Pipe Connection	Flare joint
5	Gas Pipe Connection	Flare joint
4	SVC Valve cover	-
3	Power and communication Cable Hole	-
2	Control Cover	-
1	Air Outlet	-

# 3. Dimensions

## AUW36GC0 [UU36WC U40]



# 4. Piping Diagrams



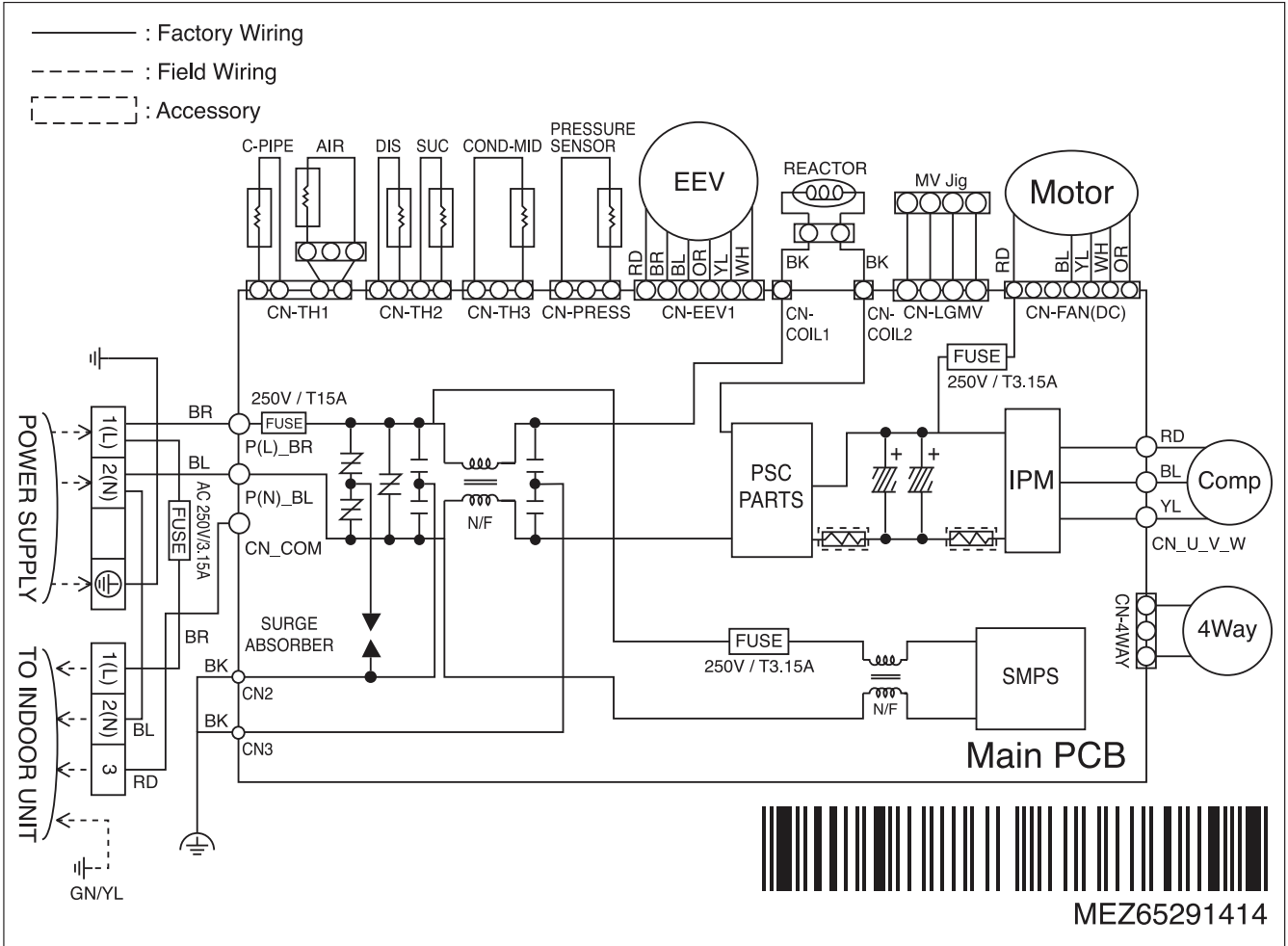
Description	AUW18GC0 [UU18WC UL0] AUW24GC0 [UU24WC UE0] AUW30GC0 [UU30WC UE0]	AUW36GC0 [UU36WC U40]
Suction Temperature Thermistor	CN_TH2	CN_SUCTION
Discharge Temperature Thermistor		CN_DISCHARGE
Condenser Out Temperature Thermistor	CN_TH1	CN_C_PIPE
Inlet Air Temperature Thermistor		CN_AIR
Condensing Temperature Thermistor	CN_TH3	CN_MID
Pressure Sensor	CN_PRESS	CN_H_PRESS

◆ Refrigerant pipe connection port diameters

Model	Gas [mm]	Liquid [mm]
AUW18GC0 [UU18WC UL0]	Ø12.7	Ø6.35
AUW24GC0 [UU24WC UE0]	Ø15.88	Ø9.52
AUW30GC0 [UU30WC UE0]	Ø15.88	Ø9.52
AUW36GC0 [UU36WC U40]	Ø15.88	Ø9.52

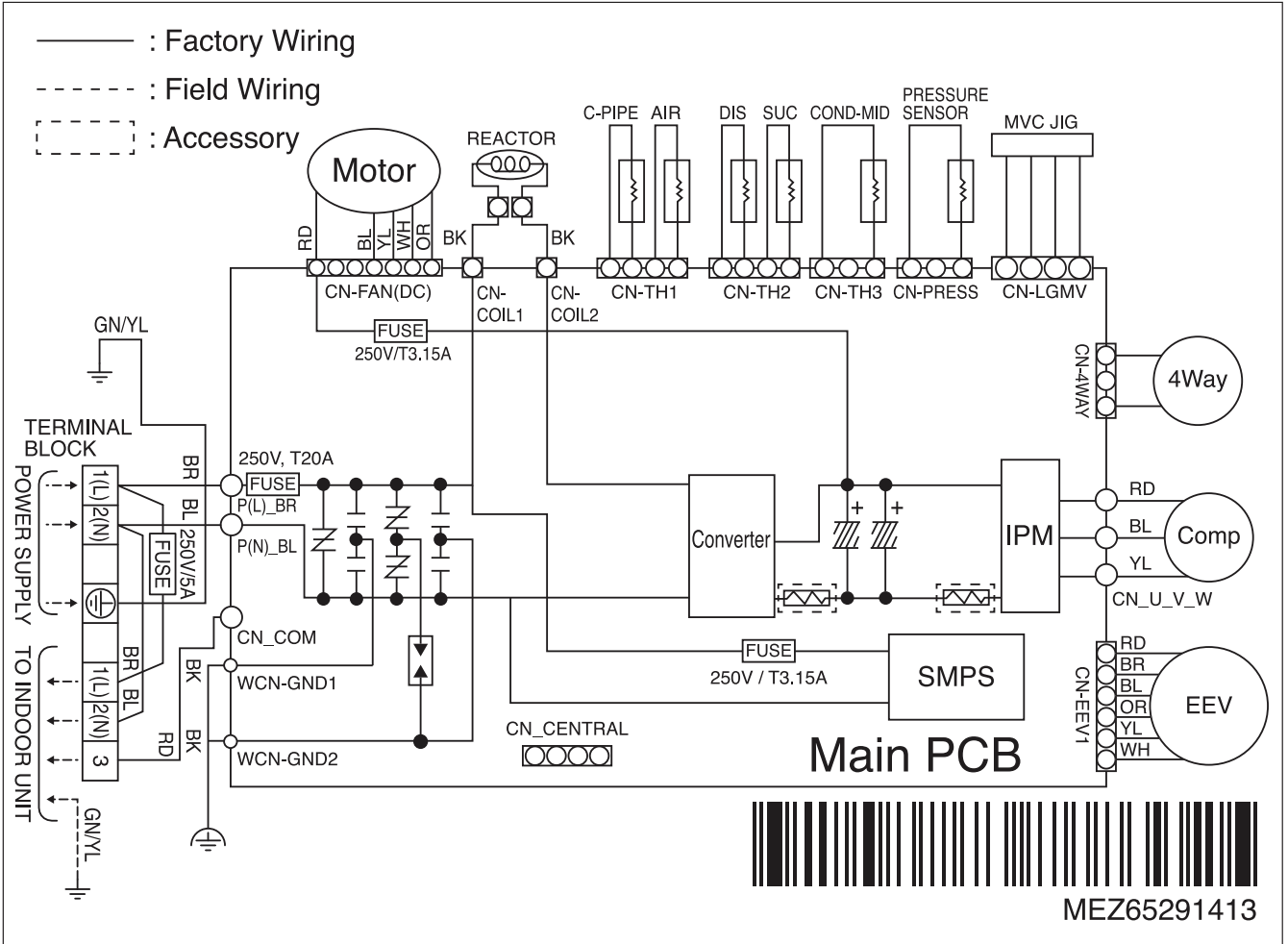
# 5. Wiring Diagrams

## Models : AUUW18GC0 [UU18WC UL0]



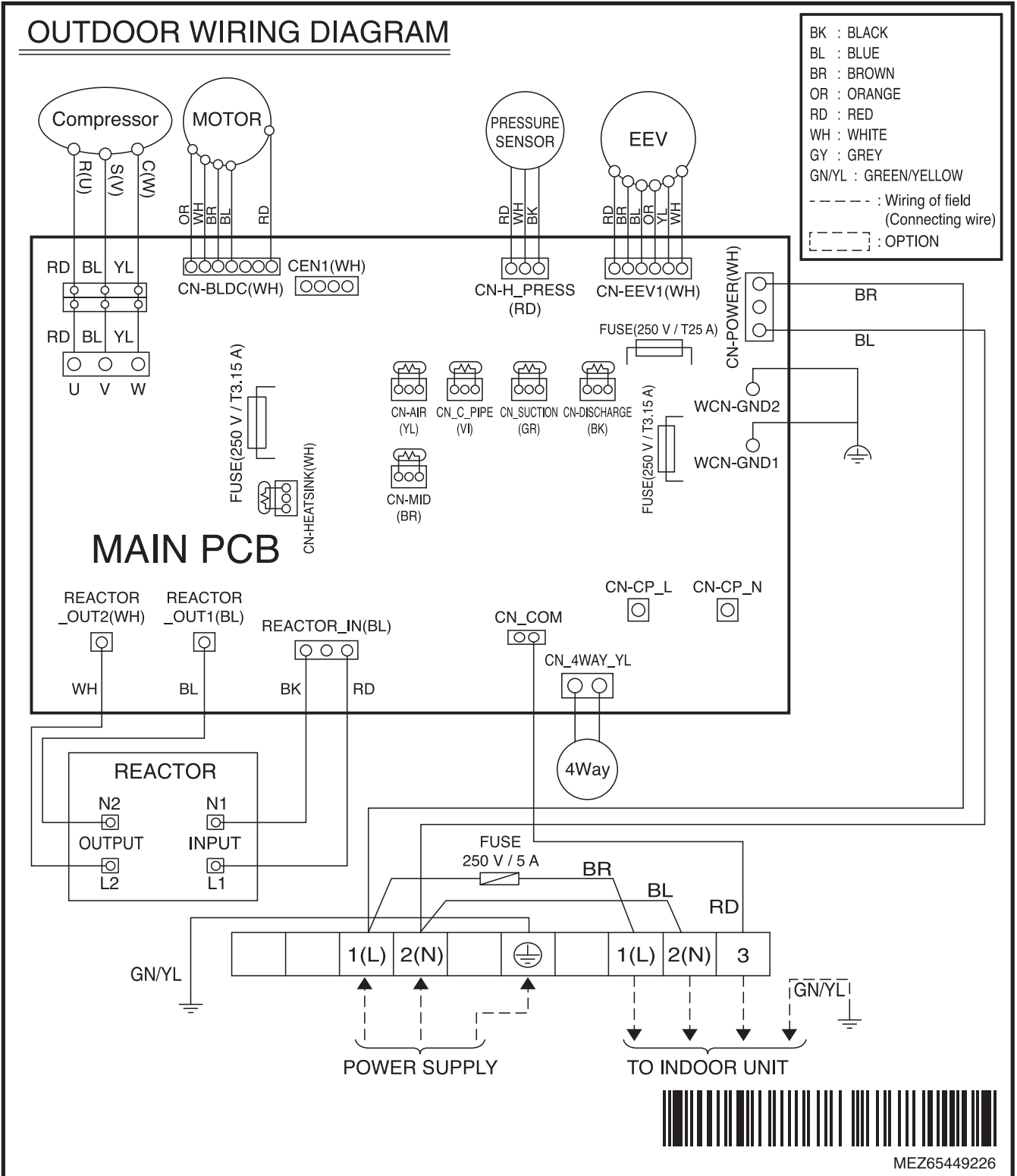
# 5. Wiring Diagrams

■ Models : AUUW24GC0 [UU24WC UE0], AUUW30GC0 [UU30WC UE0]



# 5. Wiring Diagrams

Models : AUUW36GC0 [UU36WC U40]





## 6. Capacity Tables

### 6.1 Models : AUUW18GC0 + ABNW18GBHC0 [UU18WC UL0] [UB18C NH0]

#### ■ Cooling Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	3.30	2.92	0.78	4.13	3.44	1.03	4.76	3.95	1.28	5.24	4.21	1.33	5.72	4.13	1.37	6.08	4.08	1.38
25.0	3.12	2.83	0.85	3.95	3.35	1.11	4.58	3.86	1.38	5.06	4.12	1.43	5.54	4.05	1.48	5.90	4.00	1.49
32.0	2.87	2.71	0.97	3.70	3.23	1.23	4.33	3.74	1.52	4.81	4.00	1.57	5.29	3.93	1.62	5.65	3.88	1.63
35.0	2.76	2.66	1.02	3.59	3.18	1.28	4.22	3.69	1.58	4.70	3.95	1.63	5.18	3.87	1.68	5.54	3.82	1.69
40.0	2.58	2.57	1.11	3.41	3.09	1.37	3.64	3.25	1.33	4.07	3.47	1.37	4.50	3.40	1.41	4.82	3.36	1.41
43.0	2.47	2.47	1.16	3.30	3.04	1.42	3.29	2.97	1.17	3.69	3.18	1.21	4.09	3.12	1.24	4.39	3.08	1.25
46.0	2.36	2.36	1.21	3.19	2.99	1.47	2.94	2.69	1.02	3.31	2.89	1.05	3.67	2.83	1.08	3.95	2.79	1.08
48.0	2.29	2.29	1.24	3.12	2.95	1.50	2.71	2.50	0.92	3.06	2.69	0.94	3.40	2.63	0.97	3.66	2.60	0.97

- Rate of change in TC and PI due to the indoor unit at standard temperature condition.

Model	Correction factor	
	TC	PI
AUUW18GC0 [UU18WC UL0]	Max.	1.09
	Rated	1.00

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

#### ■ Heating Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB									
	16.0		18.0		20.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	1.63	0.61	1.61	0.75	1.59	0.89	1.58	1.11	1.56	1.32
-15.0	2.53	0.89	2.51	1.03	2.50	1.17	2.48	1.36	2.46	1.55
-10.0	3.43	1.17	3.42	1.31	3.40	1.45	3.38	1.61	3.37	1.78
-5.0	4.33	1.45	4.32	1.59	4.30	1.73	4.28	1.86	4.27	2.00
0.0	5.24	1.73	5.22	1.86	5.20	2.00	4.99	1.89	4.78	1.78
6.0	5.76	1.84	5.48	1.75	5.20	1.67	4.99	1.59	4.78	1.50
10.0	5.76	1.73	5.48	1.59	5.20	1.45	4.99	1.38	4.78	1.32
15.0	5.76	1.45	5.48	1.31	5.20	1.17	4.99	1.13	4.78	1.09
18.0	5.76	1.28	5.48	1.14	5.20	1.00	4.99	0.98	4.78	0.96

- Rate of change in TC and PI due to the indoor unit at standard temperature condition.

Model	Correction factor	
	TC	PI
AUUW18GC0 [UU18WC UL0]	Max.	1.10
	Rated	1.00

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### 6.2 Models : AUUW24GC0 + ABNW24GBHC0 [UU24WC UL0] [UB24C NH0]

#### ■ Cooling Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	4.77	3.87	1.11	5.97	4.56	1.47	6.88	5.24	1.82	7.58	5.58	1.89	8.27	5.48	1.96	8.8	5.42	1.98
25	4.51	3.76	1.22	5.71	4.44	1.59	6.62	5.12	1.97	7.32	5.47	2.04	8.01	5.37	2.11	8.54	5.30	2.12
32	4.15	3.60	1.39	5.35	4.28	1.76	6.26	4.96	2.17	6.96	5.30	2.24	7.65	5.21	2.31	8.18	5.14	2.33
35	3.99	3.53	1.46	5.19	4.21	1.83	6.11	4.89	2.26	6.80	5.24	2.33	7.49	5.14	2.40	8.02	5.07	2.41
40	3.73	3.41	1.58	4.93	4.10	1.96	5.26	4.30	1.90	5.88	4.61	1.95	6.50	4.52	2.01	6.98	4.45	2.02
43	3.58	3.35	1.66	4.78	4.03	2.03	4.76	3.94	1.68	5.34	4.22	1.72	5.91	4.14	1.77	6.35	4.08	1.78
46	3.42	3.28	1.73	4.62	3.96	2.10	4.26	3.57	1.46	4.79	3.83	1.50	5.32	3.75	1.54	5.72	3.70	1.55
48	3.32	3.23	1.78	4.52	3.91	2.15	3.92	3.32	1.31	4.42	3.56	1.35	4.92	3.49	1.38	5.30	3.44	1.39

- Rate of change in TC and PI due to the indoor unit at standard temperature condition.

Model	Correction factor	
	TC	PI
AUUW24GC0 [UU24WC UL0]	Max.	1.09
	Rated	1.00

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

#### ■ Heating Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB									
	16.0		18.0		20.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20	2.35	0.88	2.33	1.08	2.30	1.28	2.28	1.59	2.25	1.90
-15	3.65	1.28	3.63	1.48	3.60	1.68	3.58	1.95	3.55	2.23
-10	4.95	1.68	4.93	1.88	4.90	2.08	4.88	2.32	4.85	2.55
-5	6.25	2.08	6.23	2.28	6.20	2.48	6.18	2.68	6.15	2.88
0	7.55	2.48	7.53	2.68	7.50	2.88	7.20	2.72	6.90	2.55
6	8.30	2.64	7.90	2.52	7.50	2.40	7.20	2.28	6.90	2.16
10	8.30	2.48	7.90	2.28	7.50	2.08	7.20	1.99	6.90	1.90
15	8.30	2.08	7.90	1.88	7.50	1.68	7.20	1.63	6.90	1.57
18	8.30	1.84	7.90	1.64	7.50	1.44	7.20	1.41	6.90	1.38

- Rate of change in TC and PI due to the indoor unit at standard temperature condition.

Model	Correction factor	
	TC	PI
AUUW24GC0 [UU24WC UL0]	Max.	1.09
	Rated	1.00

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### 6.3 Models : AUUW30GC0 + ABNW30GM1A0 [UU30WC UE0] [UM30 N14]

#### ■ Cooling Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20	5.26	4.38	1.28	6.58	5.16	1.69	7.59	5.93	2.10	8.36	6.31	2.18	9.12	6.20	2.26	9.71	6.13	2.28
25	4.97	4.25	1.40	6.30	5.03	1.83	7.31	5.80	2.27	8.07	6.18	2.35	8.84	6.07	2.43	9.42	6.00	2.44
32	4.57	4.07	1.60	5.90	4.84	2.02	6.91	5.62	2.50	7.67	6.00	2.58	8.44	5.89	2.66	9.02	5.82	2.68
35	4.40	3.99	1.68	5.73	4.77	2.11	6.73	5.54	2.60	7.50	5.93	2.68	8.27	5.81	2.76	8.85	5.74	2.78
40	4.12	3.86	1.82	5.44	4.64	2.25	6.06	5.09	2.28	6.78	5.45	2.35	7.50	5.34	2.41	8.04	5.27	2.43
43	3.95	3.79	1.90	5.27	4.56	2.33	5.66	4.81	2.09	6.35	5.15	2.15	7.03	5.05	2.21	7.56	4.98	2.22
46	3.77	3.71	1.99	5.10	4.48	2.42	5.26	4.52	1.90	5.91	4.85	1.95	6.57	4.76	2.00	7.07	4.69	2.01
48	3.66	3.66	2.05	4.98	4.43	2.47	4.99	4.33	1.77	5.63	4.65	1.81	6.26	4.56	1.86	6.75	4.50	1.87

- Rate of change in TC and PI due to the indoor unit at standard temperature condition.

Model	Correction factor	
	TC	PI
AUUW30GC0 [UU30WC UE0]	Max.	1.04
	Rated	1.00

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

#### ■ Heating Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB									
	16.0		18.0		20.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	5.25	1.04	5.21	1.20	5.16	1.36	5.13	1.58	5.09	1.80
-15.0	5.96	1.36	5.91	1.52	5.87	1.68	5.83	1.88	5.80	2.08
-10.0	6.67	1.68	6.62	1.84	6.58	2.00	6.54	2.18	6.51	2.36
-5.0	7.38	2.00	7.33	2.15	7.29	2.31	7.25	2.47	7.22	2.63
0.0	8.08	2.31	8.04	2.47	8.00	2.63	7.68	2.49	7.36	2.36
6.0	8.86	2.48	8.43	2.36	8.00	2.25	7.68	2.14	7.36	2.03
10.0	8.86	2.31	8.43	2.15	8.00	2.00	7.68	1.90	7.36	1.80
15.0	8.86	2.00	8.43	1.84	8.00	1.68	7.68	1.60	7.36	1.53
18.0	8.86	1.80	8.43	1.64	8.00	1.49	7.68	1.42	7.36	1.36

- Rate of change in TC and PI due to the indoor unit at standard temperature condition.

Model	Correction factor	
	TC	PI
AUUW30GC0 [UU30WC UE0]	Max.	1.10
	Rated	1.00

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 6. Capacity Tables

### 6.4 Models : AUUW36GC0 + ABNW36GM2A0 [UU36WC U40] [UM36 N24]

#### ■ Cooling Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB / °CWB																	
	20 / 14.0			22.0 / 16.0			25.0 / 18.0			27.0 / 19.0			30.0 / 22.0			32.0 / 24.0		
°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
20.0	6.66	5.48	1.59	8.34	6.45	2.11	9.62	7.41	2.62	10.59	7.90	2.72	11.56	7.76	2.82	12.29	7.67	2.84
25.0	6.30	5.32	1.75	7.98	6.29	2.28	9.25	7.25	2.83	10.22	7.73	2.93	11.19	7.60	3.03	11.93	7.50	3.05
32.0	5.79	5.09	1.99	7.47	6.06	2.53	8.75	7.02	3.12	9.72	7.51	3.22	10.69	7.37	3.33	11.42	7.28	3.35
35.0	5.58	4.99	2.10	7.25	5.96	2.64	8.53	6.93	3.25	9.50	7.41	3.35	10.47	7.27	3.45	11.21	7.18	3.47
40.0	5.21	4.83	2.28	6.89	5.80	2.81	7.68	6.36	2.85	8.59	6.81	2.93	9.49	6.68	3.02	10.18	6.59	3.04
43.0	5.00	4.73	2.38	6.67	5.70	2.58	7.17	6.01	2.61	8.04	6.44	2.68	8.91	6.31	2.76	9.57	6.23	2.77
46.0	4.78	4.64	2.32	6.46	5.60	2.35	6.66	5.66	2.37	7.49	6.07	2.43	8.32	5.95	2.50	8.96	5.87	2.51
48.0	4.63	4.57	2.17	6.31	5.54	2.19	6.32	5.42	2.21	7.13	5.82	2.27	7.93	5.70	2.33	8.55	5.62	2.34

- Rate of change in TC and PI due to the indoor unit at standard temperature condition.

Model	Correction factor	
	TC	PI
AUUW36GC0 [UU36WC U40]	Max.	1.05
	Rated	1.00

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

#### ■ Heating Capacity

Outdoor Air Temp.	Indoor Air Temperature : °CDB									
	16.0		18.0		20.0		22.0		24.0	
°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-20.0	6.56	1.35	6.51	1.56	6.45	1.77	6.41	2.06	6.36	2.35
-15.0	7.45	1.77	7.39	1.98	7.34	2.18	7.29	2.45	7.25	2.71
-10.0	8.33	2.18	8.28	2.39	8.23	2.60	8.18	2.83	8.13	3.07
-5.0	9.22	2.60	9.17	2.81	9.11	3.01	9.07	3.22	9.02	3.43
0.0	10.11	3.01	10.05	3.22	10.00	3.43	9.60	3.25	9.20	3.07
6.0	11.07	3.22	10.54	3.08	10.00	2.93	9.60	2.78	9.20	2.64
10.0	11.07	3.01	10.54	2.81	10.00	2.60	9.60	2.47	9.20	2.35
15.0	11.07	2.60	10.54	2.39	10.00	2.18	9.60	2.09	9.20	1.99
18.0	11.07	2.35	10.54	2.14	10.00	1.93	9.60	1.85	9.20	1.77

- Rate of change in TC and PI due to the indoor unit at standard temperature condition.

Model	Correction factor	
	TC	PI
AUUW36GC0 [UU36WC U40]	Max.	1.05
	Rated	1.00

#### Note

1. DB : Dry bulb temperature(°C), WB : Wet bulb temperature(°C)
2. TC : Total capacity(kW), SHC : Sensible Heating Capacity(kW)
3. PI : Power Input (kW, Compressor + indoor fan motor + outdoor fan motor)
4. All capacities are net. A deduction (cooling mode) or an addition (heating mode) of Capacity due to operating heat of indoor unit motor is reflected.
5. Direct interpolation is permissible. Do not extrapolate.
6. Rated capacities and power inputs are based on standard temperature and piping conditions, and it can be found on specifications table. Except for rated value, the performance is not guaranteed.
7. In accordance with the test standard(or nations), the rating will vary slightly.

## 7. Capacity Coefficient Factor

### 7.1 Rate of change in capacity due to the main piping length

#### ◆ Rate of change in cooling capacity

Piping length(m)		5	10	15	20	30	35	40
Rate of change in capacity(%)	5.0/7.0 kW	100	99.3	97.9	96.6	93.8	-	-
	8.0 kW	100	99.3	97.9	96.6	93.8	92.4	-
	10.0 kW	100	99.3	97.9	96.6	93.8	92.4	91.1

#### ◆ Rate of change in heating capacity

Piping length(m)		5	10	15	20	30	35	40
Rate of change in capacity(%)	5.0/7.0 kW	100	99.7	99.2	98.7	97.7	-	-
	8.0 kW	100	99.7	99.2	98.5	97.7	97.1	-
	10.0 kW	100	99.7	99.2	98.5	97.7	97.1	96.6

### 7.2 Calculation of actual system capacity

1. Outdoor unit capacity at  $T_i$ ,  $T_o$  temperature.

$Q_{(T_i, T_o)}$  [from capacity table]

2. Piping correction factor

$F_{\text{piping}}$  for piping length [from capacity coefficient factor table]

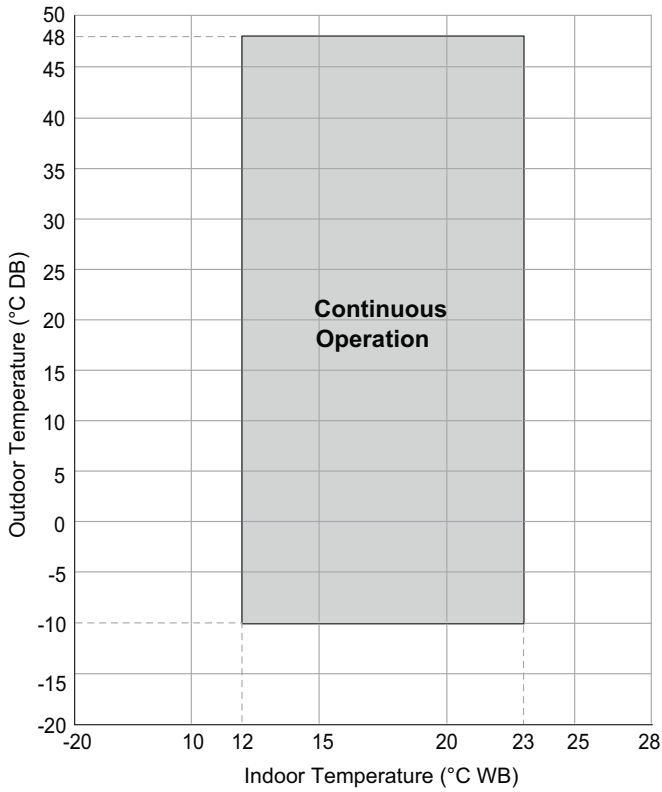
3. Indoor Unit actual capacity

$Q_{\text{actual}} = Q_{(T_i, T_o)} \times F_{\text{piping}}$

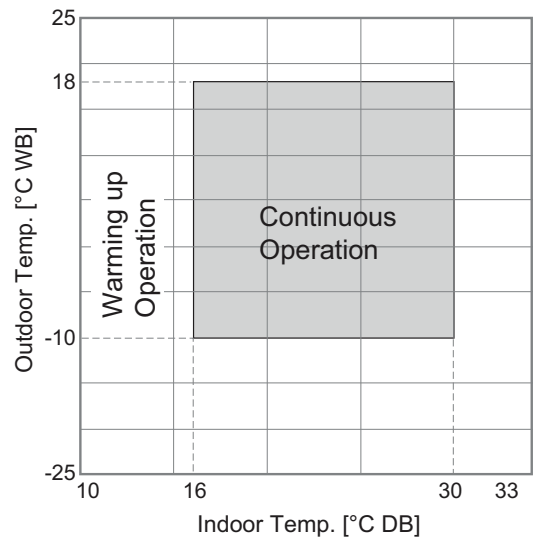
## 8. Operation Range

- Models : AUUW18GC0 [UU18WC UL0], AUUW30GC0 [UU30WC UE0]  
AUUW36GC0 [UU36WC U40]

Cooling



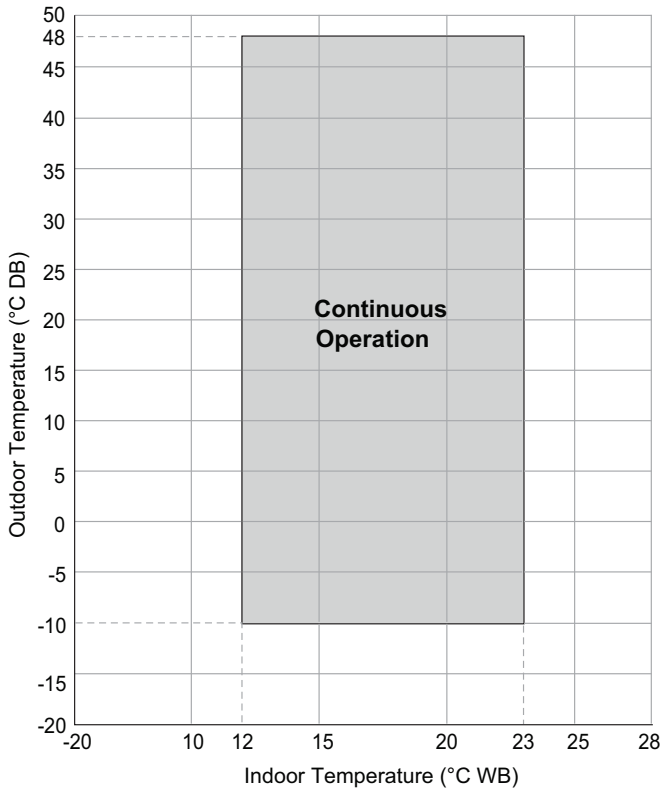
Heating



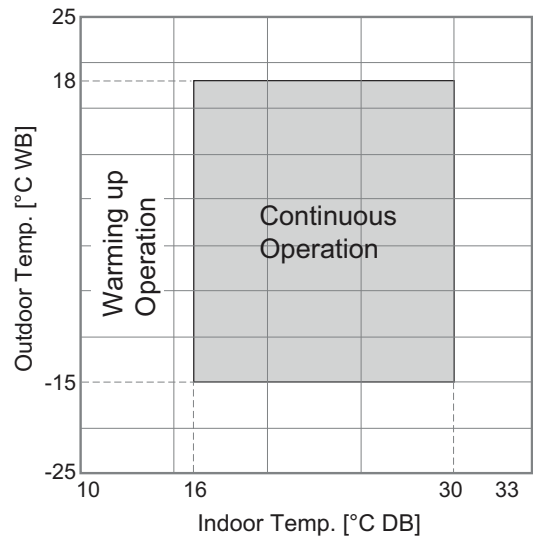
# 8. Operation Range

■ Models : AUUW24GC0 [UU24WC UE0]

### Cooling



### Heating



## 9. Electric Characteristics

### ■ Wiring of Main Power Supply and Equipment Capacity

1. The power supply work is needed only to the outdoor unit. The power supply to the indoor unit is conducted through the transmission wiring. Therefore, the power supply work can be carried out at just one place of the outdoor unit. It will contribute to simplify the work procedure and to save cost.
2. Bear in mind ambient conditions (ambient temperature, direct sunlight, rain liquid, etc.) when proceeding with the wiring and connections
3. The wire size is the minimum value for metal conduit wiring. The power cord size should be 1 rank thicker taking into account the line voltage drops. Make sure the power-supply voltage does not drop more than 10%.
4. Specific wiring requirements should adhere to the wiring regulations of the region.
5. Power supply cords of parts of appliances for outdoor use should not be lighter than polychloroprene sheathed flexible cord.
6. Don't install an individual switch or electrical outlet to disconnect each of indoor unit separately from the power supply.

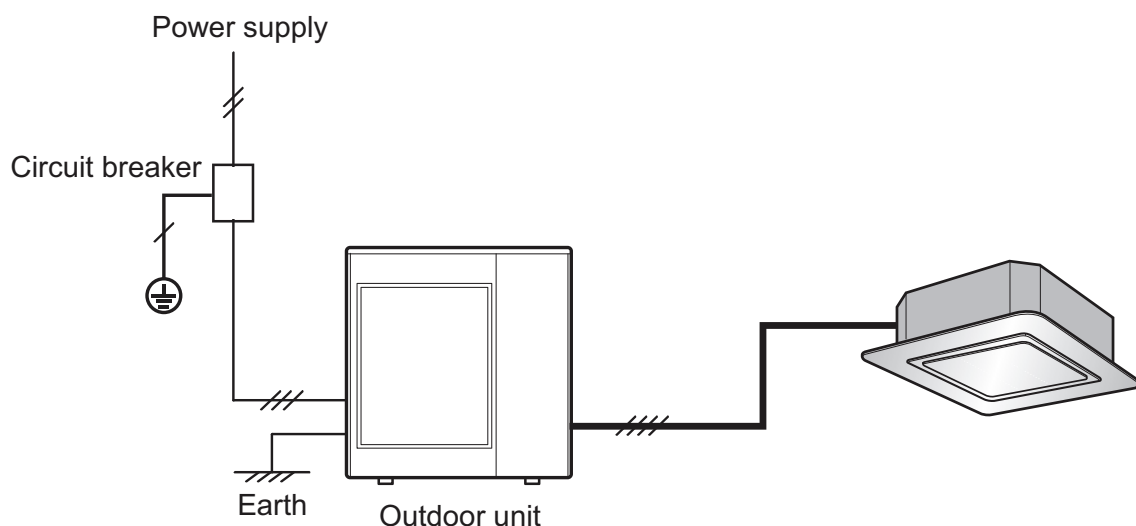
### ⚠ WARNING

- Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations and guidance of each electric power company.
- Make sure to use specified wires for connections so that no external force is imparted to terminal connections. If connections are not fixed firmly, it may cause heating or fire.
- Make sure to use the appropriate type of overcurrent protection switch. Note that generated overcurrent may include some amount of direct current.

### ⚠ CAUTION

- Some installation site may require attachment of an earth leakage breaker. If no earth leakage breaker is installed, it may cause an electric shock.
- Do not use anything other than breaker and fuse with correct capacity. Using fuse and wire or copper wire with too large capacity may cause a malfunction of unit or fire.

[ Field Wiring (Single Phase, 2 Wiring Type) ]



※ This figure is representative example for field wiring. Actual appearance of outdoor and indoor units could be different with installed product.



## 9. Electric Characteristics

Outdoor Unit Model names	Combined Indoor Unit		Unit				Power Supply		COMP		OFM		IFM	
	Model names	No. of Units	Phase	Hz	Volts	Voltage range	MCA	MFA (MOP)	MSC	RLA	kW	FLA	kW	FLA
AUW18GC0 [UU18WC UL0]	ABNW18GBHC0 [UB18C NH0]	1	1Ø	50	220 - 240	Min.:198 Max.:264	12.6	15	-	10.0	0.043	0.25	0.154	0.80
AUW24GC0 [UU24WC UE0]	ABNW24GBHC0 [UB24C NH0]						17.9	20	-	15.0	0.085	0.33	0.154	1.10
AUW30GC0 [UU30WC UE0]	ABNW30GM1A0 [UM30 N14]						18.4	20	-	15.0	0.085	0.33	0.137	0.80
AUW36GC0 [UU36WC U40]	ABNW36GM2A0 [UM36 N24]						21.2	25	-	17.0	0.124	0.48	0.350	1.14

### Note

- Voltage supplied to the unit terminals should be within the minimum and maximum range.
- Maximum allowable voltage unbalance between phase is 2%.
- MSC means the Max. current during the starting of compressor.
- MSC and RLA are measured as the compressor only test condition.
- OFM and IFM are measured as the outdoor unit test condition.
- Select the wire size based on the MCA.
- MFA is used to select the circuit breaker and ground fault circuit interrupter, and recommended circuit breaker type is ELCB(Earth Leakage Circuit Breaker).

**MCA** : Minimum Circuit Amperes (A)

**MFA** : Maximum Fuse Amperes (A)

**MSC** : Maximum Starting Current

**RLA** : Rated Load Amperes (A)

**OFM** : Outdoor Fan Motor

**IFM** : Indoor Fan Motor

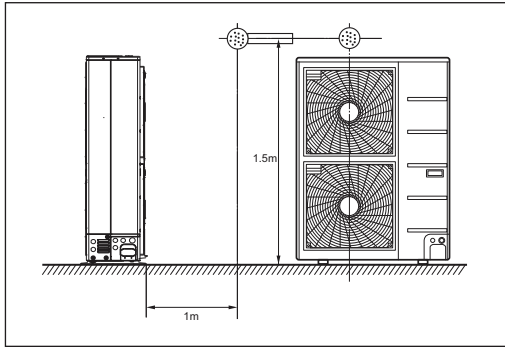
**kW** : Fan Motor rated output (kW)

**FLA** : Full Load Amperes (A)

# 10. Sound Levels

## 10.1 Sound Pressure Levels

### Overall

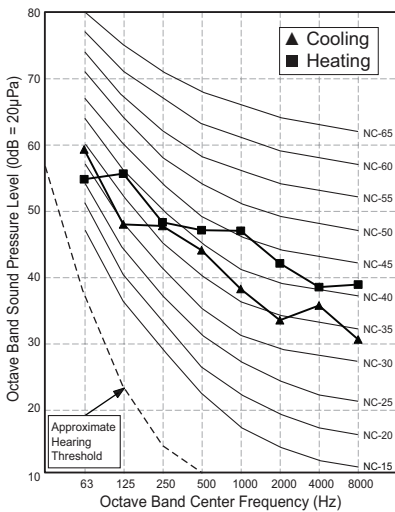


**Note**

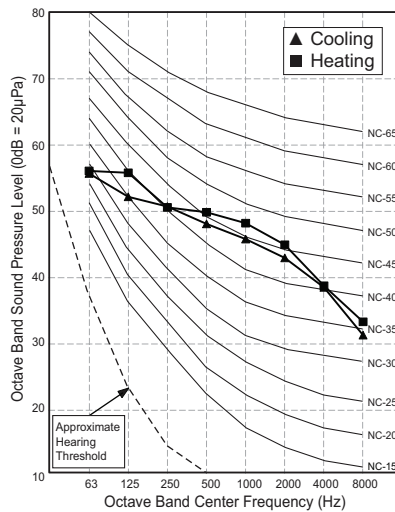
- 1.Data is valid at free field condition.
- 2.Reference acoustic pressure 0dB = 20μPa.
- 3.Data is valid at nominal operation condition.  
Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
- 4.Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
- 5.Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.

Model	Sound Pressure Levels [dB(A)]	
	Cooling	Heating
AUW18GC0 [JU18WC UL0]	47	49
AUW24GC0 [JU24WC UE0]	48	50
AUW30GC0 [JU30WC UE0]	51	52
AUW36GC0 [JU36WC U40]	54	56

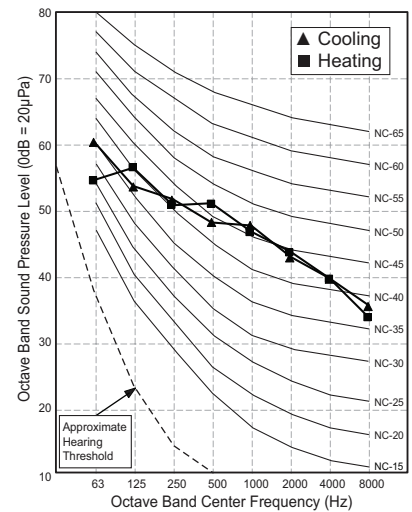
**AUW18GC0 [JU18WC UL0]**



**AUW24GC0 [JU24WC UE0]**

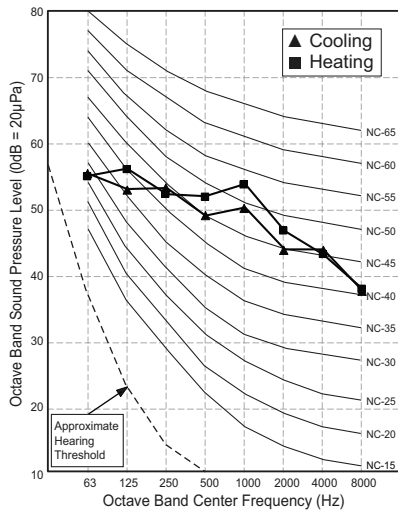


**AUW30GC0 [JU30WC UE0]**



# 10. Sound Levels

AUUW36GC0 [UU36WC U40]



# 10. Sound Levels

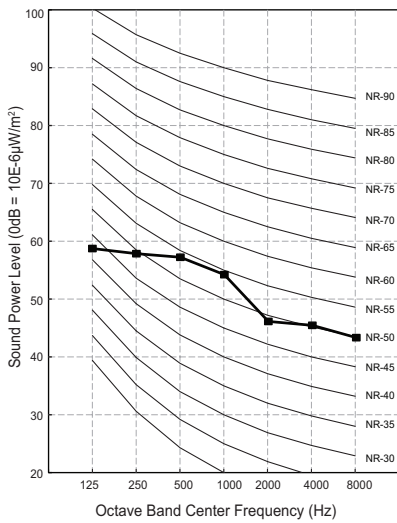
## 10.2 Sound Power Levels

### Note

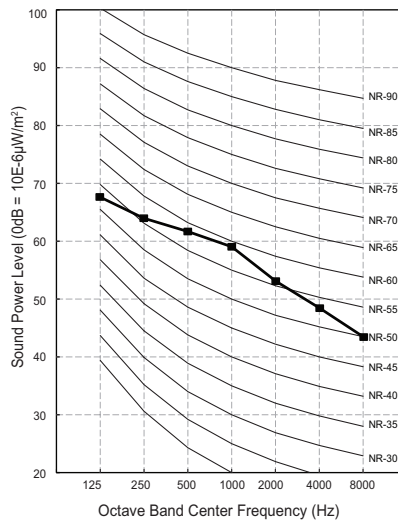
1. Data is valid at diffuse field condition.
2. Reference acoustic intensity 0dB = 10E-6μW/m<sup>2</sup>
3. Sound power level is measured on the rated condition in the reverberation rooms. Refer to the Model Specifications for nominal conditions(Power source and Ambient temperature, etc)
4. Sound levels can be increased in accordance with installation and operating conditions. (Operating conditions include some functional condition like Static pressure mode, air guide use, Room target temperature setting, etc and these functions are different in accordance with each model.)
5. Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment in installed.

Model	Sound Power Levels [dB(A)]
	Cooling
AUUW18GC0 [JU18WC UL0]	65
AUUW24GC0 [JU24WC UE0]	68
AUUW30GC0 [JU30WC UE0]	70
AUUW36GC0 [JU36WC U40]	70

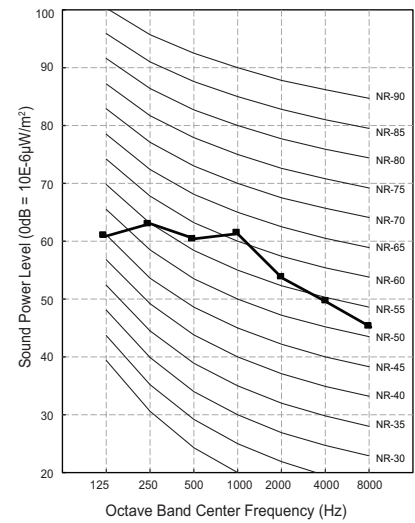
**AUUW18GC0 [JU18WC UL0]**



**AUUW24GC0 [JU24WC UE0]**

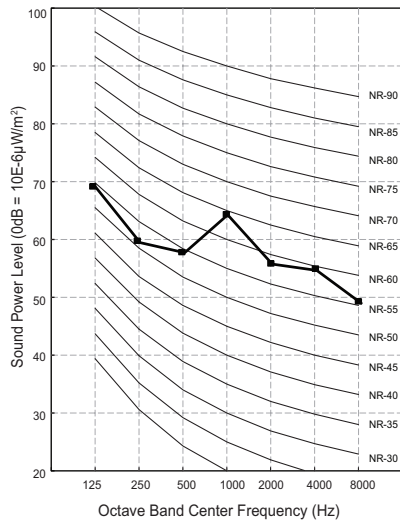


**AUUW30GC0 [JU30WC UE0]**



# 10. Sound Levels

**AUUW36GC0 [UU36WC U40]**



## **MULTI/SINGLE CAC**

### **Installation of Outdoor Units**

- 1. Select the Best Location**
- 2. Installation Space**
- 3. Installation of Outdoor Unit**
- 4. Refrigerant piping system**
- 5. Installation guide at the seaside**
- 6. Seasonal wind and caution in winter**

## 1. Select the Best Location

---

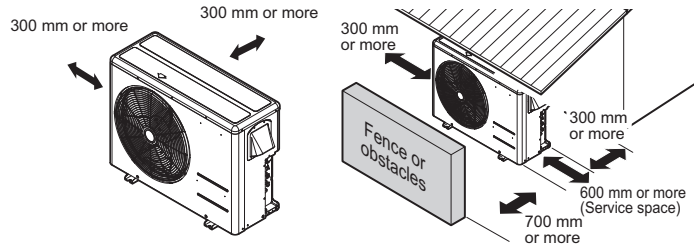
Select space for installing outdoor unit, which will meet the following conditions:

- No direct thermal radiation from other heat sources
- No possibility of annoying neighbors by noise from unit
- No exposition to strong wind
- With strength which bears weight of unit
- Note that drain flows out of unit when heating (Heat pump model)
- With space for air passage and service work shown next
- Because of the possibility of fire, do not install unit to the space where generation, inflow, stagnation, and leakage of combustible gas is expected.
- Avoid unit installation in a place where acidic solution and spray (sulfur) are often used.
- Do not use unit under any special environment where oil, steam and sulfuric gas exist.
- It is recommended to fence round the outdoor unit in order to prevent any person or animal from accessing the outdoor unit.
- If installation site is area of heavy snowfall, then the following directions should be observed.
  - Make the foundation as high as possible.
  - Fit a snow protection hood.
- Select installation location considering following conditions to avoid bad condition when additionally performing defrost operation. (Heat pump model)
  1. Install the outdoor unit at a place well ventilated and having a lot of sunshine in case of installing the product at a place with a high humidity in winter (near beach, coast, lake, etc).  
(Ex) Rooftop where sunshine always shines.
  2. Performance of heating will be reduced and pre-heat time of the indoor unit may be lengthened in case of installing the outdoor unit in winter at following location:
    - 1) Shade position with a narrow space
    - 2) Location with much moisture in neighboring floor.
    - 3) Location with much humidity around.
    - 4) Location where liquid gathers since the floor is not even.

## 2. Installation Space

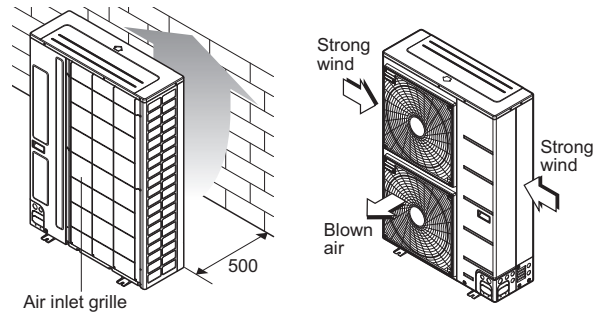
### 2.1 Clearance around outdoor units

- Ensure that the space around the back is or more more than 300 mm on the opposite to the PCB side and secure 600 mm space near the compressor and PCB side of the air conditioner for service.



\* Outdoor unit is representative. Actual appearance of outdoor unit may be different but clearances will stay the same.

- Install the unit so that its discharge port faces to the wall of the building. Keep a distance 500mm or more between the unit and the wall surface.
- Supposing the wind direction during the operation season of the air conditioner, install the unit so that the discharge port is set at right angle to the wind direction.



Turn the air outlet side toward the building's wall, fence or windbreak screen.

Set the outlet side at a right angle to the direction of the wind.

\* Outdoor unit is representative. Actual appearance of outdoor unit may be different but clearances will stay the same.



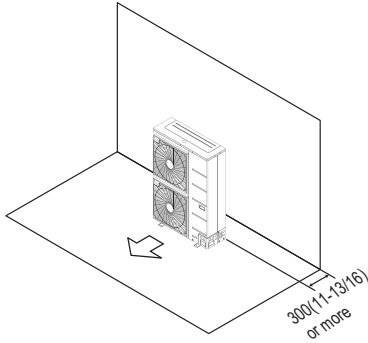
## 2. Installation Space

### ■ Where there is an obstacle on the air intake side:

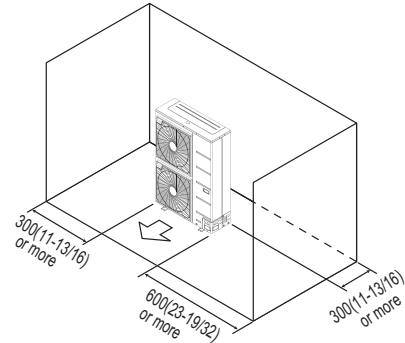
#### ◆ No obstacle above

[Unit : mm(inch)]

- Obstacle on the suction side only



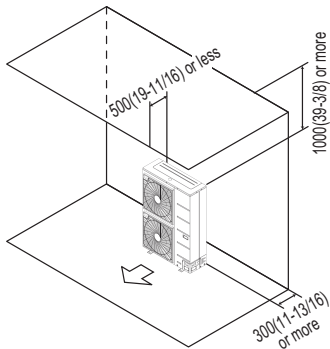
- Obstacle on the both sides



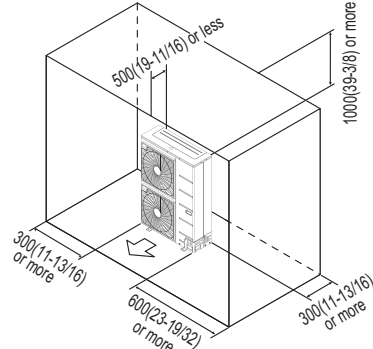
#### ◆ Obstacle above, too

[Unit : mm(inch)]

- Obstacle on the air intake side, too



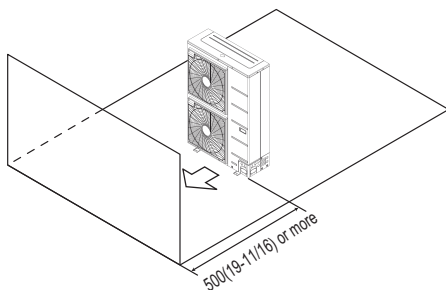
- Obstacle on the air intake side, and both sides



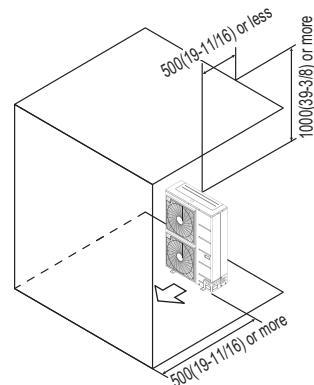
### ■ Where there is an obstacle on the discharge side:

[Unit : mm(inch)]

- No obstacle above



- Obstacle above, too



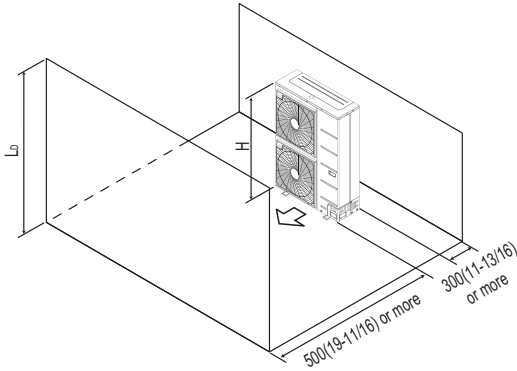
## 2. Installation Space

■ Where there are obstacles on both suction and discharge sides:

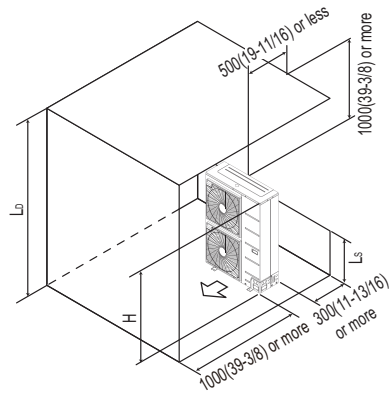
◆ Where the obstacles on the discharge side is higher than the unit:

[Unit : mm(inch)]

- No obstacle above



- Obstacle above, too



The relations between H, A and L are as follows:

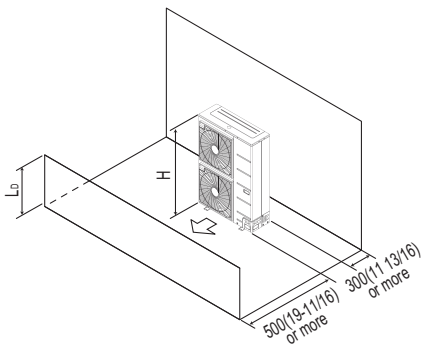
	L	A[mm(inch)]
L ≤ H	0 < L ≤ 1/2H	750(29 1/32)
	1/2H < L	1 000(39 3/8)
H < L	Set the stand as: L ≤ H	

Close the bottom of the installation frame to prevent the discharged air from being bypassed.

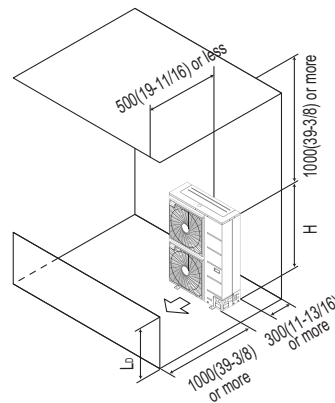
◆ Where the obstacles on the discharge side is lower than the unit:

[Unit : mm(inch)]

- No obstacle above



- Obstacle above, too  
'L' should be lower than 'H'.  
Close the bottom of the installation frame to prevent the discharged air from being bypassed.

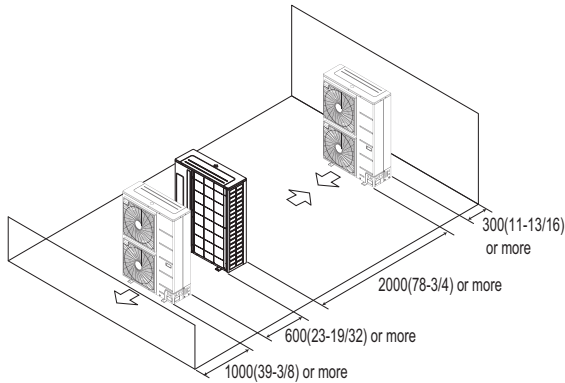


## 2. Installation Space

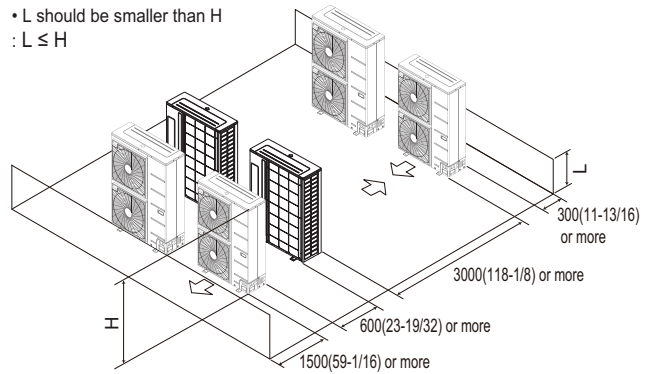
### Series installation

[Unit : mm(inch)]

#### • One row of stand alone installation



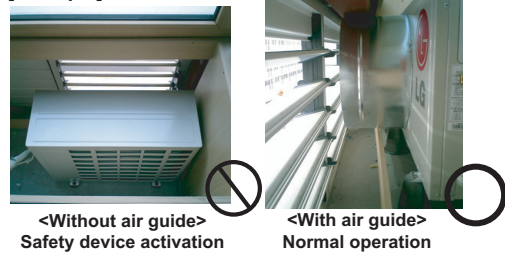
#### • Rows of collective installation (2 or more)



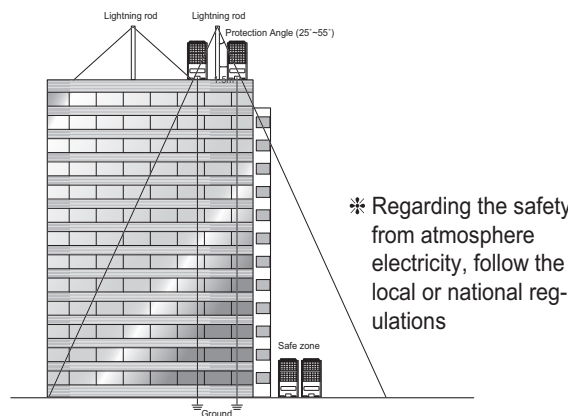
## 2.2 Air guide work

In case of out door unit is located outdoor cabin of apartment or flats, then the efficiency can drop and system pressure increases thus finally damaging the compressor or other components in the system by heat short circuit.

[Example]



## 2.3 Lightning safety zone



1. To protect outdoor unit from lightning, it should be placed within lightning safety zone.

### ◆ Safety zone

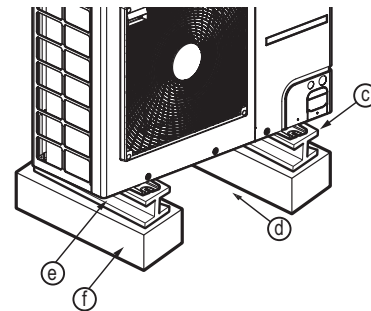
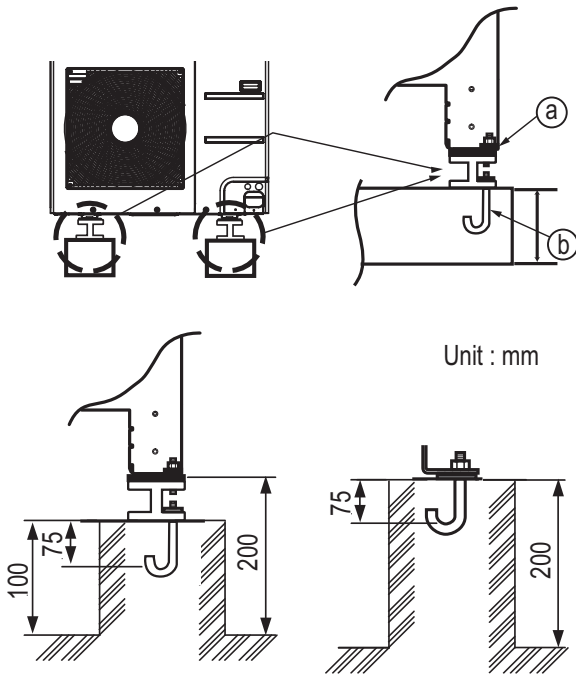
Building Height [m]	20	30	45	60
Protection Angle [°]	55	45	35	25

- Power cable and communication cable should be 1.5m away from lightning rod.
- High resistance grounded system should be performed against induced lightning or indirect stroke.
- If the building has no lightning protection, outdoor may be damage from lightning. This should be informed to customer or building owner in advance.

### 3. Installation of Outdoor Unit

#### 3.1 Foundation for Installation

- Fix the unit tightly with bolts as shown below so that unit will not fall down due to earthquake or gust.
- Use the H-beam support as a base support.
- Noise and vibration may occur from the floor or wall since vibration is transferred through the installation part depending on installation status. Thus, use anti-vibration materials (cushion pad) fully (The base pad shall be more than 200mm).



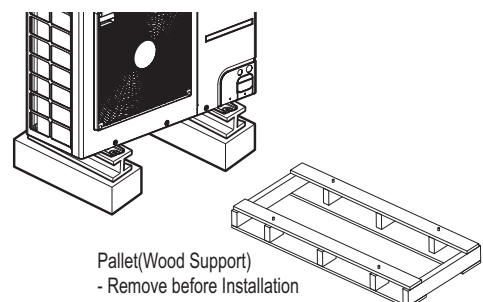
- (a) The corner part must be fixed firmly. Otherwise, the support for the installation may be bent.
- (b) Get and use M10 Anchor bolt.
- (c) Put Cushion Pad between the outdoor unit and ground support for the vibration protection in wide area.
- (d) Space for pipes and wiring (Pipes and wirings for bottom side)
- (e) H-beam support
- (f) Concrete support
- \* Outdoor unit is representative. Actual appearance of outdoor unit may be different but clearances will stay the same.

#### ⚠ WARNING

- Install where it can sufficiently support the weight of the outdoor unit.  
If the support strength is not enough, the outdoor unit may drop and hurt people.
- Install where the outdoor unit may not fall in strong wind or earthquake.  
If there is a fault in the supporting conditions, the outdoor unit may fall and hurt people.
- Please take extra cautions on the supporting strength of the ground, water outlet treatment (treatment of the water flowing out of the outdoor unit in operation) of heat pump unit, and the passages of the pipe and wiring, when making the ground support.
- Do not use tube or pipe for water outlet in the Base pan. Use drainage instead for water outlet.  
The tube or pipe may freeze and the water may not be drained. (Heat pump model)

#### ⚠ WARNING

- Be sure to remove the Pallet (Wood Support) of the bottom side of the outdoor unit Base Pan before fixing the bolt. It may cause the unstable state of the outdoor settlement, and may cause freezing of the heat exchanger resulting in abnormal operations.
- Be sure to remove the Pallet (Wood Support) of the bottom side of the outdoor unit before welding. Not removing Pallet (Wood Support) causes hazard of fire during welding.

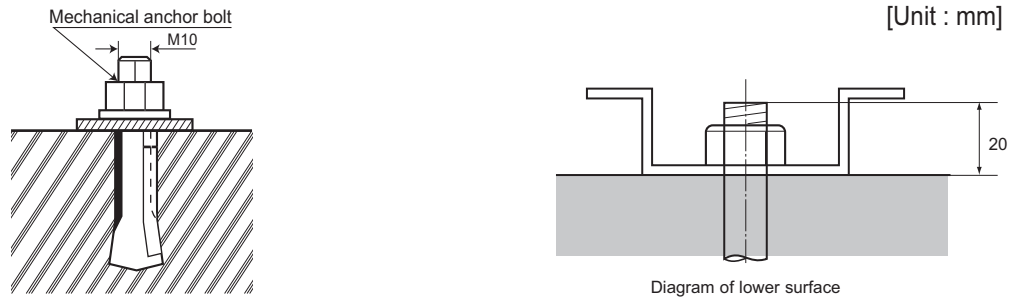


## 3. Installation of Outdoor Unit

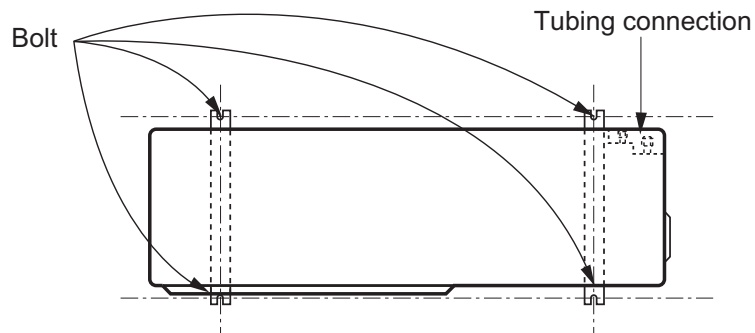
### 3.2 Settlement of the outdoor unit

- Anchor the outdoor unit with a bolt and nut tightly and horizontally on a concrete or rigid mount.
- When installing on the wall, roof or rooftop, anchor the mounting base securely with a nail or wire assuming the influence of wind and earthquake.
- In the case when the vibration of the unit is conveyed to the house, secure the unit with an anti-vibration rubber.

#### ◆ Bolt construction work



#### ◆ Settlement draw of outdoor units



#### ⚠ CAUTION

- The ingredients of foundation : Cement : Sand : Gravel for the concrete should 1 : 2 : 4 ratio
- The foundation surface should be finished with mortar.
- The edges of foundation should be rounded.
- A drain passage should be made around the foundation to thoroughly drain water away from the equipment installation area. (Heat pump model)
- If installing the outdoor units on the roof, the roof's strength have to be checked.
- Care should be taken for weather - proofing
- Blocking all gaps of outdoor unit, for passing piping and wiring, using sealing material (Field supply)  
(Animals and bugs might enter in the machine.)

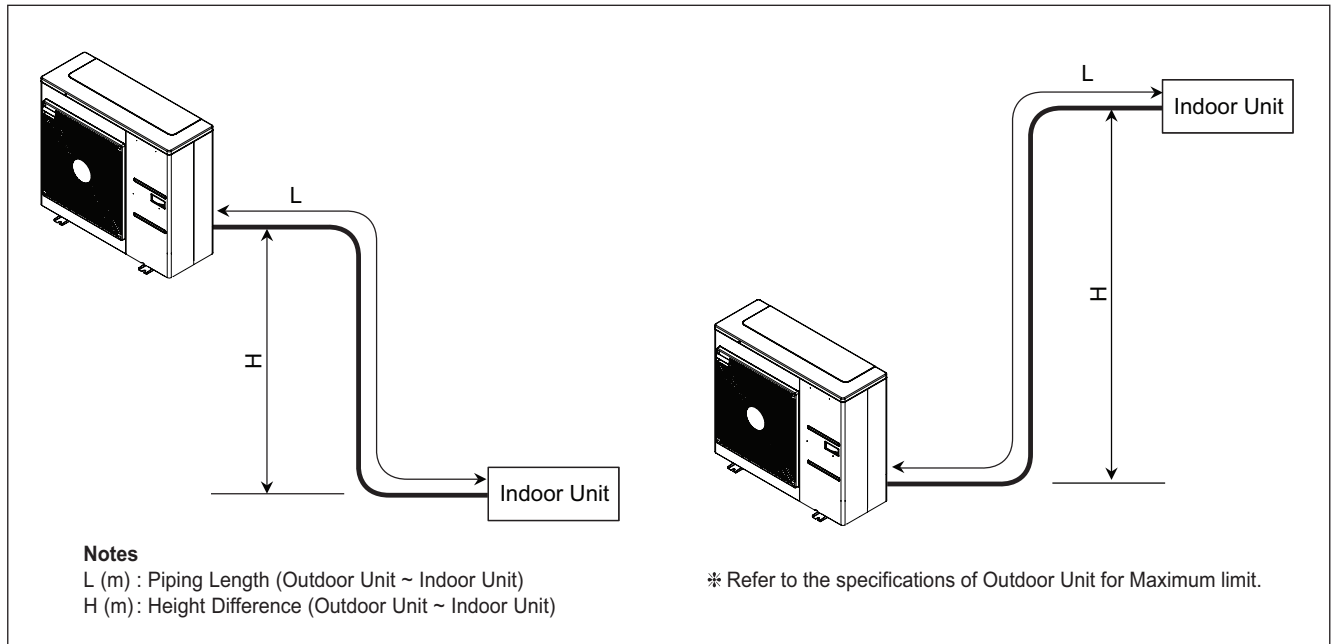
## 4. Refrigerant piping system

### 4.1 Piping System between outdoor unit / indoor unit

#### ■ Single type

#### ⚠ CAUTION

- Please check the product type. Piping installation and refrigerant charge varies depending on the type of product.  
For more information, please refer to the installation manual.



#### ◆ Refrigerant additional charge calculation method

$$\text{Additional Refrigerant} = (L - A) \times a$$

L (m) : Installed Piping Length (Outdoor Unit ~ Indoor Unit)

A (m) : Charge-less piping length

a (g/m) : Additional charging volume

\* Refer to the specifications for detail information of A, a.

\* If total additional charge value after calculation comes out to be negative, then do not consider additional charge.

#### ⚠ CAUTION

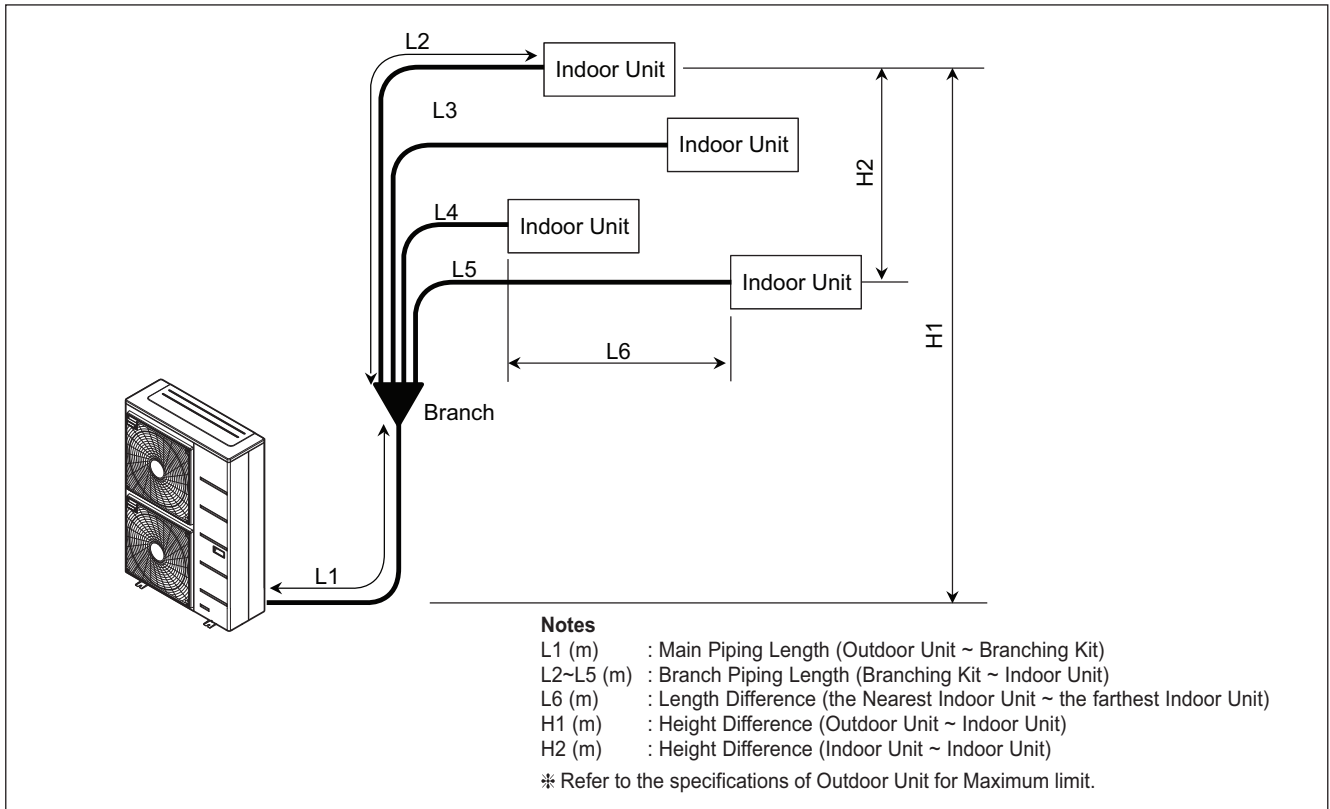
- Capacity is based on standard length and maximum allowance length is on the basis of reliability.
- Improper refrigerant charge may result in abnormal cycle.

# 4. Refrigerant piping system

## ■ Single type - Synchro

### ⚠ CAUTION

- Please check the product type. Piping installation and refrigerant charge varies depending on the type of product.  
For more information, please refer to the installation manual.



- When installing the branch pipe, direction and angle of installation is not limited.
- Take care so that burrs and foreign material may not enter into the cutting surface when connecting.
- Connect remaining those by cutting or direct insertion to the diameter of pipe.

### ◆ Refrigerant additional charge calculation method

Liquid Pipe Diameter (mm)	b (g/m)
Ø 6.35	35
Ø 9.52	40

**Additional Refrigerant = (L1 - A) x a + (L2 + L3 + L4 + L5) x b**

**L1 (m)** : Installed Branch Piping Length (Outdoor Unit ~ Branching Kit)

**L2~L5 (m)** : Installed Branch Piping Length (Branching Kit ~ Indoor Unit)

**a (g/m)** : Additional charging volume for Main Pipe (Outdoor Unit ~ Branching Kit)

**b (g/m)** : Additional charging volume for Branch Pipe (Branching Kit ~ Indoor Unit)

\* Refer to the specifications for detail information of A, a.

\* If total additional charge value after calculation comes out to be negative, then do not consider additional charge.

### ⚠ CAUTION

- Capacity is based on standard length and maximum allowance length is on the basis of reliability.
- Improper refrigerant charge may result in abnormal cycle.

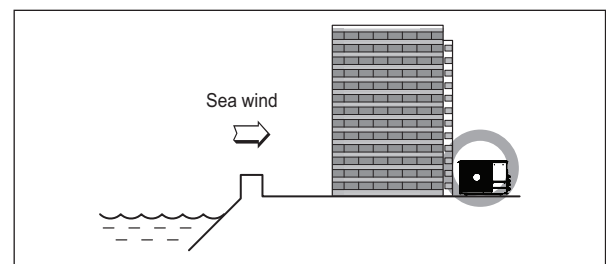
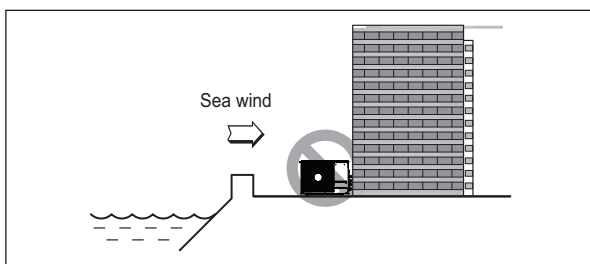
## 5. Installation guide at the seaside

### ⚠ CAUTION

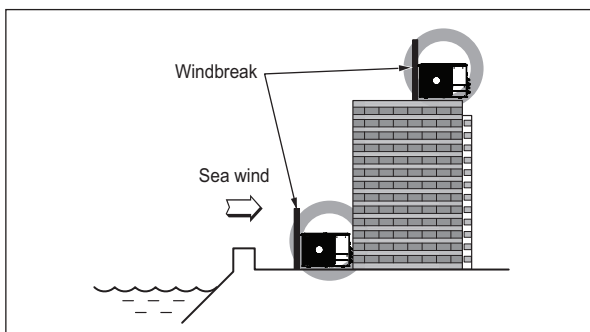
1. Air conditioners should not be installed in areas where corrosive gases, such as acid or alkaline gas, are produced.
2. Do not install the product where it could be exposed to sea wind (salty wind) directly. It can result corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient performance.
3. If outdoor unit is installed close to the seaside, it should avoid direct exposure to the sea wind. Otherwise it needs additional anticorrosion treatment on the heat exchanger.

### ■ Selecting the location(Outdoor Unit)

1. If the outdoor unit is to be installed close to the seaside, direct exposure to the sea wind should be avoided. Install the outdoor unit on the opposite side of the sea wind direction.



2. In case, to install the outdoor unit on the seaside, set up a windbreak not to be exposed to the sea wind.



- It should be strong enough like concrete to prevent the sea wind from the sea.
- The height and width should be more than 150% of the outdoor unit.
- It should be kept more than 70 cm of space between outdoor unit and the windbreak for easy air flow.

3. Select a well-drained place.

### Note

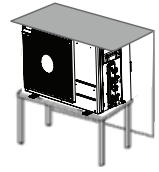
Periodic ( more than once/year ) cleaning of the dust or salt particles stuck on the heat exchanger by using water



## 6. Seasonal wind and cautions in winter

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- Sufficient measures are required in a snow area or severe cold area in winter so that product can be operated well.
- Get ready for seasonal wind or snow in winter even in other areas.
- Install a suction and discharge duct not to let in snow or rain.
- Install the outdoor unit not to come in contact with snow directly. If snow piles up and freezes on the air suction hole, the system may malfunction. If it is installed at snowy area, attach the hood to the system.
- Install the outdoor unit at the higher installation console by 50cm than the average snowfall (annual average snowfall) if it is installed at the area with much snowfall.
- Where snow accumulated on the upper part of the Outdoor Unit by more than 10cm, always remove snow for operation.



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### Note

1. The height of H frame must be more than 2 times the snowfall and its width shall not exceed the width of the product. (If width of the frame is wider than that of the product, snow may accumulate)
  2. Don't install the suction hole and discharge hole of the Outdoor Unit facing the seasonal wind.
-



**Air Solution**

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