LG TOTAL HVAC SOLUTION PROVIDER

ENGINEERING PRODUCT DATA BOOK

Floor Standing

Cooling Only (R410A,50/60Hz)
6CSP0-04A (Replace : 6CSP0-03C)

LG
Life's Good

P/No.: MFL60778813

Floor Standing
Introduction

Thank you very much for your special patronage of LG air conditioners.

Keeping pace with developments in global environment policies, the company has developed a new refrigerant (R410A) to replace Freon gas (R22), ahead of it being banned due to its environmentally - damaging greenhouse effects.
This is our environment-friendly policy to protect the environment for the future.

LG's "Floor Standing" is the indoor unit which is used as luxury domestic or commercial appliance and is used in the places like restaurant, store or meeting room.

This unit has good design and is equipped with many special features. It comes in different color to suits the interior design and maintains the harmony of the room.Installation of floor standing unit is easy and it has very low operating noise.Apart from that it has very special features such as child lock, neuro fuzzy control logic, dual plasma filter.

In installation field we can use this unit as the duct system also which makes it more dynamic and diversified than other units.

A lot of information regarding the design and installation of this system is provided in this publication. This new products series contains data on the same pattern.

Please utilize all the information for conducting your business efficiently.

Make sure the specification, dimension or others technical data are same as provided in enginering data book before you start the project.

We look forward to your continuing support.

LG Electronics Inc.
Air Conditioning & Energy Solution Company

Floor Standing

Floor Standing
1. Models List

1.1 Cooling Only

■ 0 Series

Nominal Capacity Class_Rated (kBtu/h)	Rated Capacity (kW)	Refrigerant	Model Name	Power Supply (V, Ø, Hz)
36	10.5	R410A	AP-Q36GRA0	220-240, 1, 50 220, 1, 60
48	14.1		AP-Q48GTA0	
100	28.7		AP-Q100LFA0	380-415, 3, 50 380, 3, 60

■ 4 Series

Nominal Capacity Class_Max (kBtu/h)	Rated Capacity (kW)	Refrigerant	Model Name	Power Supply (V, Ø, Hz)
60	14.1	R410A	AP-Q60GT3E4	220-240, 1, 50 220, 1, 60

Floor Standing
2. Model Number Nomenclature

■ 0 Series

Development Sequence

Function
A : Basic

Chassis Type

Electric Standard (Volts / Freq. / Phase)
G : 220-240V, 1Ø, 50Hz / 220V, 1Ø, 60Hz
L : 380-415V, 3Ø, 50Hz / 380V, 3Ø, 60Hz

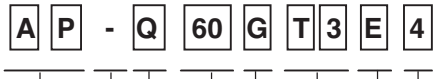
Nominal Cooling Capacity(Rated)
Ex) 36 → 36,000 Btu/h

Model Type
Q : Inverter Cooling Only

Set unit
U : Outdoor unit
N : Indoor unit

Type of Air Conditioner
AP : R410A Floor Standing Type Air Conditioner

■ 4 Series



Development Sequence

Function
A : Basic E : Deluxe

Chassis Type

Electric Standard (Volts / Freq. / Phase)
G : 220-240V, 1Ø, 50Hz / 220V, 1Ø, 60Hz
L : 380-415V, 3Ø, 50Hz / 380V, 3Ø, 60Hz

Nominal Cooling Capacity(Max)
Ex) 60 → 57,000 Btu/h

Model Type
Q : Inverter Cooling Only

Set unit
U : Outdoor unit
N : Indoor unit

Type of Air Conditioner
AP : R410A Floor Standing Type Air Conditioner

Floor Standing
3. List of Functions

3.1 Indoor Units

Category	Functions	APNQ36GRA0	APNQ48GTA0
Air flow	Air supply outlet	1	1
	Airflow direction control (left & right)	Auto	Auto
	Airflow direction control (up & down)	Auto	Auto
	Auto swing (left & right)	O	O
	Auto swing (up & down)	O	O
	Airflow steps (fan/cool/heat)	4 / 4 / -	4 / 4 / -
	Chaos wind(auto wind)	X	X
	Jet cool/heat	O / X	O / X
	Swirl wind	X	X
Air purifying	Triple filter (Deodorizing)	X	X
	Plasma air purifier	X	X
	Allergy Safe filter	X	X
	Long-life prefilter (washable / anti-fungus)	O	O
Installation	Drain pump	X	X
	E.S.P. control	X	X
	Electric heater	X	X
	High ceiling operation	X	X
	Auto Elevation Grille	X	X
Reliability	Hot start	X	X
	Self diagnosis	O	O
Convenience	Auto changeover	X	X
	Auto cleaning	O	O
	Auto operation(artificial intelligence)	O	O
	Auto Restart	O	O
	Child lock	O	O
	Forced operation	X	X
	Group control	X	X
	Sleep mode	X	X
	Timer(on/off)	O	O
	Timer(weekly)	X	X
	Two thermistor control	X	X
Individual control	Standard Wired remote controller	X	X
	Deluxe wired remote controller	X	X
	Simple wired remote controller	X	X
	Simple Wired remote controller(for hotel use)	X	X
	Wireless remote controller	O	O
CAC network function	General central controller (Non LGAP)	X	X
	Network Solution(LGAP)	O	O
	Dry contact	PDRYCB000 / PDRYCB400 / PDRYCB300	PDRYCB000 / PDRYCB400 / PDRYCB300
	PI 485(for Indoor Unit)	X	X
Special function kit	Zone controller	X	X
	CTI(Communication transfer interface)	X	X
	Electronic thermostat	X	X
Others	Remote temperature sensor	X	X
	Telecom shelter controller	X	X

Notes :
O : Applied, X : Not applied
Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

Floor Standing
3. List of Functions

Category	Functions	APNQ60GT3E4	APNQ100LFA0
Air flow	Air supply outlet	1	1
	Airflow direction control (left & right)	Auto	Manual
	Airflow direction control (up & down)	Auto	Manual
	Auto swing (left & right)	O	X
	Auto swing (up & down)	O	X
	Airflow steps (fan/cool/heat)	4 / 4 / -	2 / 3 / -
	Chaos wind(auto wind)	X	X
	Jet cool/heat	O / X	O / X
	Swirl wind	X	X
Air purifying	Triple filter (Deodorizing)	X	X
	Plasma air purifier	X	X
	Allergy Safe filter	X	X
	Long-life prefilter (washable / anti-fungus)	O	O
Installation	Drain pump	X	X
	E.S.P. control	X	X
	Electric heater	X	X
	High ceiling operation	X	X
	Auto Elevation Grille	X	X
Reliability	Hot start	X	X
	Self diagnosis	O	O
Convenience	Auto changeover	X	X
	Auto cleaning	O	X
	Auto operation(artificial intelligence)	O	O
	Auto Restart	O	O
	Child lock	O	O
	Forced operation	X	O
	Group control	X	X
	Sleep mode	X	X
	Timer(on/off)	O	O
	Timer(weekly)	X	X
	Two thermistor control	X	X
Individual control	Standard Wired remote controller	X	X
	Deluxe wired remote controller	X	X
	Simple wired remote controller	X	X
	Simple Wired remote controller(for hotel use)	X	X
	Wireless remote controller	O	O
Network function	General central controller (Non LGAP)	X	X
	Network Solution(LGAP)	O	O
	Dry contact	PDRYCB000	PDRYCB000 / PDRYCB400 / PDRYCB300
	PI 485(for Indoor Unit)	X	X
Special function kit	Zone controller	X	X
	CTI(Communication transfer interface)	X	X
	Electronic thermostat	X	X
Others	Remote temperature sensor	X	X
	Group control wrie	X	X
	Telecom shelter controller	X	X

Notes :
O : Applied, X : Not applied
Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

3.2 Outdoor Units

Category	Functions	APUQ36GRA0	APUQ48GTA0	APUQ60GT3E4	APUQ100LFA0
Reliability	Defrost / Deicing	X	X	X	X
	High pressure switch	X	X	X	X
	Low pressure switch	X	X	X	X
	Phase protection	X	X	X	O
	Restart delay (3-minutes)	O	O	O	O
	Self diagnosis	O	O	O	O
	Soft start	X	X	X	X
	Test function	O	O	O	O
Convenience	Night Silent Operation	O	O	X	X
CAC network function	Network soluation(LGAP)	O	O	O	O

Device		APUQ36GRA0 / APUQ48GTA0 / APUQ100LFA0	APUQ60GT3E4
Central Controller	AC Ez	PQCSZ250S0	PQCSZ250S0
	AC Ez Touch	PACEZA000	PACEZA000
	AC Smart 5	PACS5A000	PACS5A000
	ACP 5	PACP5A000	PACP5A000
	AC Manager 5	PACM5A000	PACM5A000
	PI 485	PMNFP14A1	PMNFP14A1
BNU(Building Network Unit)	LONWORKS Gateway	PLNWKB000	PLNWKB000
	BACnet Gateway	PQNFB17C0	PQNFB17C0
ODU Dry Contact		X	X
Low Ambient Kit		O (Logical operation)	X (Logical operation)

Notes :
O : Applied, X : Not applied
Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

Floor Standing
4. Specifications

4.1 Indoor Units

Model Name				APNQ36GRA0	APNQ48GTA0
Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50
				220, 1, 60	220, 1, 60
Power Input (Indoor Unit only)		Rated	W	150	281
Running Current (Indoor Unit only)			A	0.50	0.91
Casing Color			-	Middle White	Middle White
Dimensions	Body	W x H x D	mm	590 × 1,840 × 320	590 × 1,840 × 460
		W x H x D	inch	23-7/32 x 72-7/16 x 12-19/32	23-7/32 x 72-7/16 x 18-1/8
Net Weight	Body		kg (lbs)	36.0 (79.4)	49.0 (108.0)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(3 x 38 x 19) x 1	(3 x 38 x 19) x 1
	Face Area		m^2 (ft^2)	0.30 (3.26)	0.39 (4.17)
Fan	Type		-	Sirocco	Sirocco
	Air Flow Rate	SH / H / M / L	m^3/min	23.5 / 21.0 / 17.0 / 14.0	38.0 / 32.0 / 28.0 / 24.0
		SH / H / M / L	ft^3/min	830 / 742 / 600 / 494	1,342 / 1,130 / 989 / 848
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	104 x 1	224 x 1
Dehumidification Rate			*l* / h (pts/h)	4.3 (9.1)	5.2 (11.0)
Sound Pressure Level		SH / H / M / L	dB(A)	52 / 48 / 44 / 41	53 / 50 / 47 / 43
Sound Power Level		Cooling	dB(A)	-	-
Piping Connections	Liquid		mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm(inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)
	Drain (O.D. / I.D.)		mm	Ø 21.0 / 17.0	Ø 21.0 / 17.0
Safety Devices			-	Fuse	Fuse
			-	Thermal Protector for Fan Motor	Thermal Protector for Fan Motor
Power and Communication Cable (included Earth)			No. x mm^2	4C x 1.0	4C x 1.0

Note :

1. All data are based on the following conditions:
   - Cooling Temperature : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB
     Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB
   - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB
     Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB
   - Interconnected Pipe Length is standard length.
   - Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
2. Wiring cable size must comply with the applicable local and national code.
3. Due to our policy of innovation some specifications may be changed without notification.
4. Sound Level Values are measured at anechoic chamber.
   Therefore, these values can be increased owing to ambient conditions during operation.

Floor Standing
4. Specifications

Model Name				APNQ60GT3E4	APNQ100LFA0
Power Supply			V, Ø, Hz	220-240, 1, 50	220-240, 1, 50
				220, 1, 60	220, 1, 60
Power Input (Indoor Unit only)		Rated	W	281	700
Running Current (Indoor Unit only)			A	0.91	4.0
Casing Color			-	White	Middle White
Dimensions	Body	W x H x D	mm	590 x 1,840 x 440	1,050 × 1,880 × 495
		W x H x D	inch	23-7/32 x 72-7/16 x 17-5/16	41-11/32 × 74-1/32 × 19-1/2
Net Weight	Body		kg (lbs)	49.0 (108.0)	113.0 (249.0)
Heat Exchanger	(Row x Column x Fins per inch) x No.		-	(3 x 38 x 19) x 1	(3 × 40 × 19) × 1
	Face Area		m^2 (ft^2)	0.39 (4.20)	0.77 (8.29)
Fan	Type		-	Sirocco	Sirocco
	Air Flow Rate	SH / H / M / L	m^3/min	37 / 33 / 28 / 24	68 / 61 / - / 50
		SH / H / M / L	ft^3/min	1,307 / 1,165 / 989 / 848	2,402 / 2,154 / - / 1,766
Fan Motor	Type		-	BLDC	BLDC
	Output		W x No.	224 × 1	900 × 1
Dehumidification Rate			*l* / h (pts/h)	4.9 (10.4)	12.6 (26.8)
Sound Pressure Level		SH / H / M / L	dB(A)	53 / 50 / 47 / 45	58 / 55 / - / 51
Sound Power Level		Cooling	dB(A)	-	-
Piping Connections	Liquid		mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas		mm(inch)	Ø 19.05 (3/4)	Ø 22.2(7/8)
	Drain (O.D. / I.D.)		mm	ϕ 21 / 17	Ø 32 / 25
Safety Devices			-	Fuse	Fuse
			-	-	Thermal Protector for Fan Motor
Power and Communication Cable (included Earth)			No. x mm^2	4C x 1.0	4C x 1.5

Note :

1. All data are based on the following conditions:
   - Cooling Temperature : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB
     Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB
   - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB
     Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB
   - Interconnected Pipe Length is standard length.
   - Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
2. Wiring cable size must comply with the applicable local and national code.
3. Due to our policy of innovation some specifications may be changed without notification.
4. Sound Level Values are measured at anechoic chamber.
   Therefore, these values can be increased owing to ambient conditions during operation.

4.2 Outdoor Units

Model Name				APUQ36GRA0	APUQ48GTA0
Capacity	Cooling	Min.~Rated	kW	5.57 ~ 10.5	5.13 ~ 14.1
		Min.~Rated	Btu/h	19,000 ~ 36,000	17,500 ~ 48,000
	Heating	Min.~Rated	kW	-	-
		Min.~Rated	Btu/h	-	-
Power Input	Cooling	Rated	kW	3.30	4.15
	Heating	Rated	kW	-	-
Running Current	Cooling	Rated	A	15.0	19.0
	Heating	Rated	A	-	-
EER / COP		Rated	W/W	3.06 / -	3.39 / -
Power Supply			V , Ø , Hz	220-240, 1, 50	220-240, 1, 50
				220, 1, 60	220, 1, 60
Starting Current	Cooling	Max.	A	-	-
	Heating	Max.	A	-	-
Wiring Connections	Power Supply Cable (included Earth)		No. x mm^2	3C x 4.0	3C x 5.0
Casing Color			-	Warm Gray	Warm Gray
Dimensions		W x H x D	mm	950 × 834 × 330	950 × 1,170 × 330
		W x H x D	inch	37-13/32 x 32-27/32 x 13	37-13/32 x 46-1/16 x 13
Net Weight			kg (lbs)	65.0 (143.3)	83.0 (183.0)
Compressor	Type		-	Twin Rotary	Twin Rotary
	Model		Model x No.	GPT442MBA x 1	GPT442MBA x 1
	Motor type		-	BLDC	BLDC
	Motor Output		W x No.	-	-
Refrigerant	Type		-	R410A	R410A
	Precharged Amount		g (oz)	2,500 (88.2)	3,000 (105.8)
	Chargeless-Pipe Length		m (ft)	7.5 (24.6)	7.5 (24.6)
	Additional Charging Volume		g/m (oz/ft)	30 (0.32)	40 (0.43)
	Control		-	Electronic Expansion Valve	Electronic Expansion Valve
Refrigerant Oil	Type		-	FVC68D	FVC68D
	Charged volume		cc x No.	1,300 x 1	1,300 x 1
Heat Exchanger	#1_(Row x Column x Fins per inch) x No.		-	(2 x 38 x 17) x 1	(2 x 22 x 17) x 1
	#2_(Row x Column x Fins per inch) x No.		-	-	(2 x 32 x 17) x 1
Fan	Type		-	Propeller	Propeller
	Air Flow Rate		m^3/min x No.	58 x 1	90 x 2
Fan Motor	Type			BLDC	BLDC
	Output		W x No.	137.0 x 1	85.4 x 2
Sound Pressure Level	Cooling	Rated	dB(A)	54	55
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		Standard	m (ft)	7.5 (24.6)	7.5 (24.6)
		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)	-10 (14.0) ~ 48 (118.4)	-10 (14.0) ~ 48 (118.4)
	Heating	Min. ~ Max.	°C WB (°F WB)	-	-

Note :

1. All data are based on the following conditions:
   - Cooling Temperature : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB
     Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB
   - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB
     Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB
   - Interconnected Piping Length is standard length.
   - Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
2. Wiring cable size must comply with the applicable local and national code.
3. Due to our policy of innovation some specifications may be changed without notification.
4. Sound Level Values are measured at anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.

Floor Standing
4. Specifications

Model Name				APUQ60GT3E4	APUQ100LFA0
Capacity	Cooling	Min. ~ Rated. ~ Max.	kW	4.50 ~ 14.1 ~ 16.69	14.3 ~ 28.7 ~ -
		Min. ~ Rated. ~ Max.	Btu/h	15,356 ~ 48,000 ~ 57,000	49,000 ~ 98,000 ~ -
	Heating	Min. ~ Rated. ~ Max.	kW	-	-
		Min. ~ Rated. ~ Max.	Btu/h	-	-
Power Input	Cooling	Rated	kW	4.26	11.5
	Heating	Rated	kW	-	-
Running Current	Cooling	Rated	A	20.0	19.5
	Heating	Rated	A	-	-
EER / COP		Rated	W/W	3.30 / -	2.50 / -

Power Supply			V , Ø , Hz	220-240, 1, 50	380-415, 3, 50
				220, 1, 60	380, 3, 60
Starting Current	Cooling	Max.	A	-	-
	Heating	Max.	A	-	-
Wiring Connections	Power Supply Cable (included Earth)		No. x mm^2	3C x 6.0	5C x 6.0

Casing Color			-	Warm Gray	Warm Gray
Dimensions		W x H x D	mm	950 x 1,380 x 330	1,090 × 1,625 × 380
		W x H x D	inch	37-13/32 x 54-11/32 x 13	42-29/32 × 63-31/32 × 14-31/32
Net Weight			kg (lbs)	82.0 (180.8)	143.0 (315.0)
Compressor	Type		-	BLDC INV Scroll	BLDC INV Scroll
	Model		Model x No.	RJA036MAA x 1	JBA068MAF x 1
	Motor type		-	BLDC	BLDC
	Motor Output		W x No.	1,100 x 1	4,241 x 1
Refrigerant	Type		-	R410A	R410A
	Precharged Amount		g (oz)	3,800 (128)	6,125 (207)
	Chargeless-Pipe Length		m (ft)	5 (16.4)	5 (16.4)
	Additional Charging Volume		g/m (oz/ft)	40 (0.4)	61 (0.6)
	Control		-	Electronic Expansion Valve	Electronic Expansion Valve
Refrigerant Oil	Type		-	FVC68D	FVC68D
	Charged volume		cc x No.	1,100 x 1	1,400 x 1
Heat Exchanger	#1_(Row x Column x Fins per inch) x No.		-	(2 x 32 x 14) x 1	(2 x 38 x 14) x 2
	#2_(Row x Column x Fins per inch) x No.		-	-	-
Fan	Type		-	Propeller	Propeller
	Air Flow Rate		m^3/min x No.	120 x 2	190 x 2
Fan Motor	Type			BLDC	BLDC
	Output		W x No.	124 x 2	250 x 2
Sound Pressure Level	Cooling	Rated	dB(A)	59	60
Piping Connections	Liquid	Outer Dia.	mm(inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)
	Gas	Outer Dia.	mm(inch)	Ø 19.05 (3/4)	Ø 22.2 (7/8)
Piping Length		Standard	m (ft)	5 (16.4)	5 (16.4)
		Max.	m (ft)	50 (164)	50 (164)
Maximum Height Difference	Outdoor Unit ~ Indoor Unit	Max.	m (ft)	30 (98)	30 (98)
Operation Range (Outdoor Temperature)	Cooling	Min. ~ Max.	°C DB (°F DB)	-10(14) ~ 48(118)	-10(14) ~ 48(118)
	Heating	Min. ~ Max.	°C WB (°F WB)	-	-

Note :

1. All data are based on the following conditions:
   - Cooling Temperature : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB
     Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB
   - Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB
     Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB
   - Interconnected Piping Length is standard length.
   - Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
2. Wiring cable size must comply with the applicable local and national code.
3. Due to our policy of innovation some specifications may be changed without notification.
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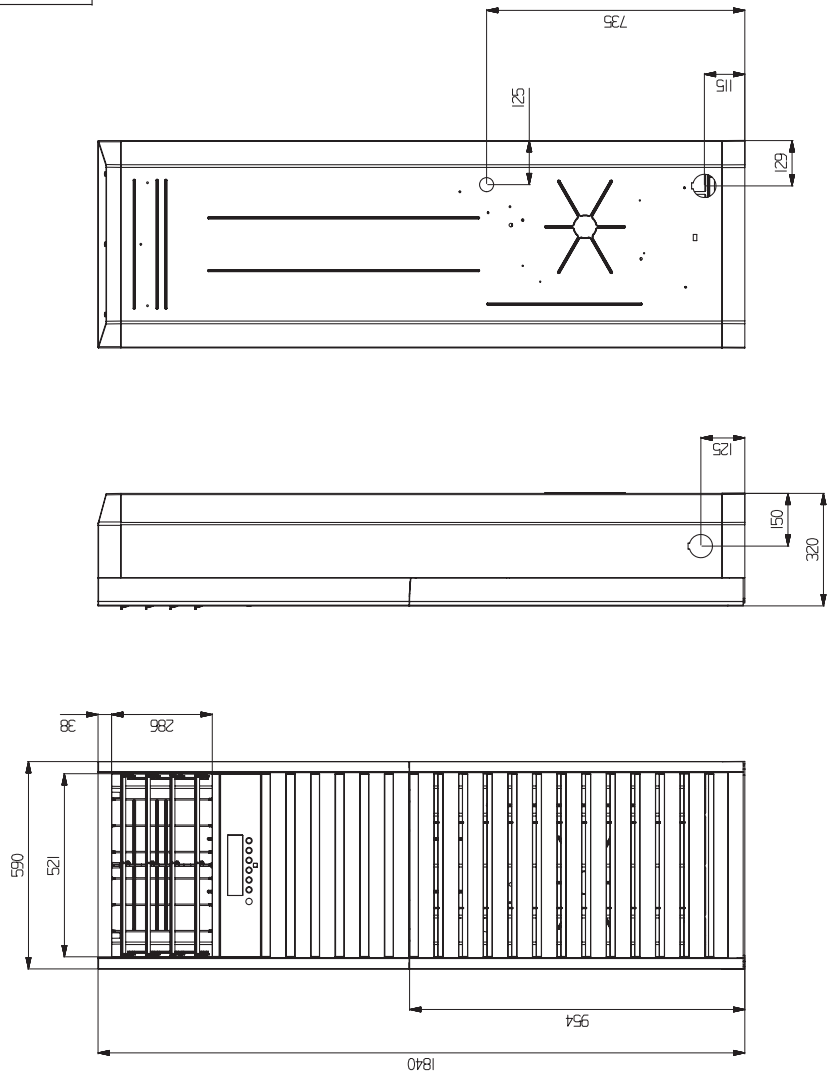
Floor Standing
5. Dimensions

5.1 Indoor Units

PR4 Chassis
APNQ36GRA0



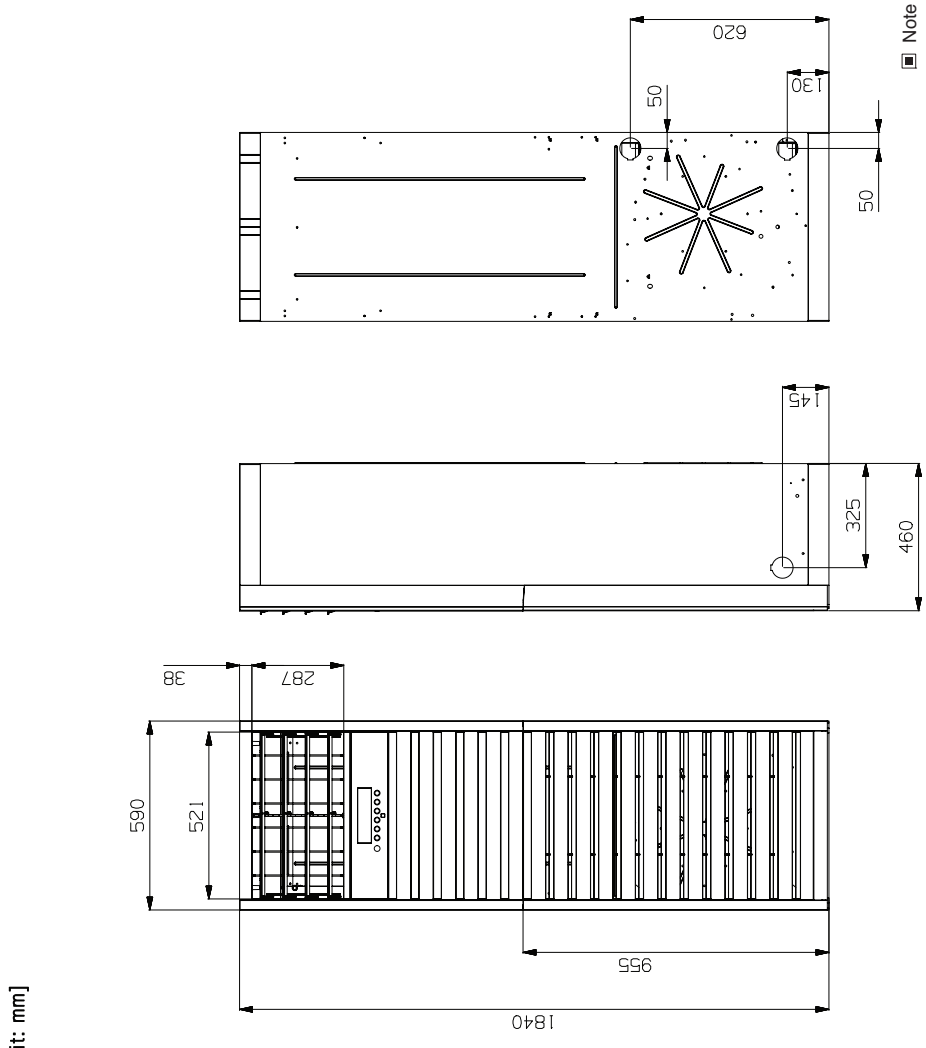
[Unit: mm]

▣ 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 on the site must comply with the local regulations or international codes.
4. Electrical characteristics chapter should be considered for electrical work and design. Especially the capacity of power cable and circuit breaker for outdoor unit should be more than that of electrical characteristics chapter.

Floor Standing
5. Dimensions

PT2 Chassis	APNQ48GTA0



[Unit: mm]

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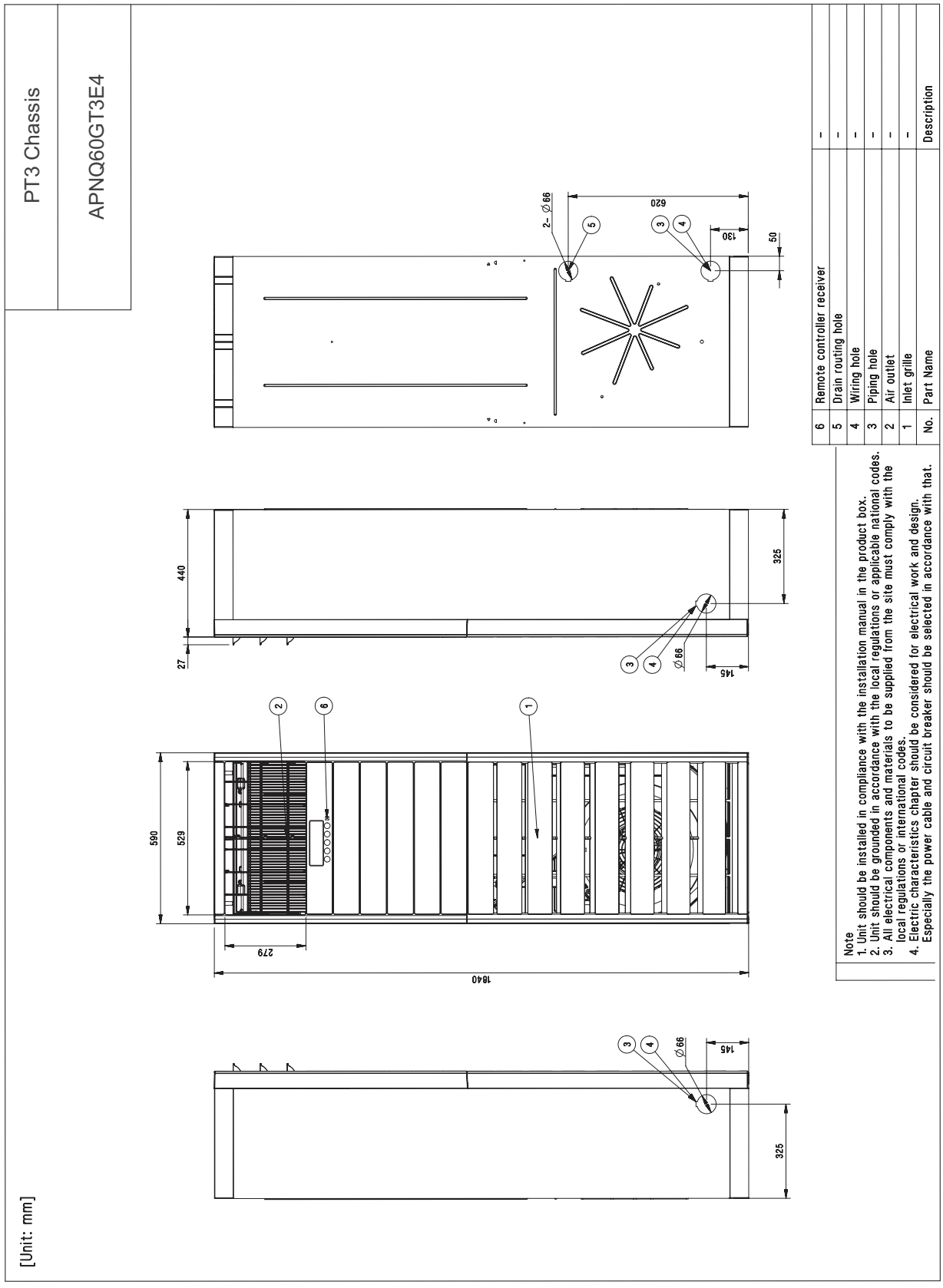
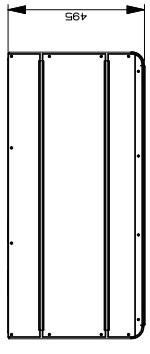
Floor Standing
5. Dimensions

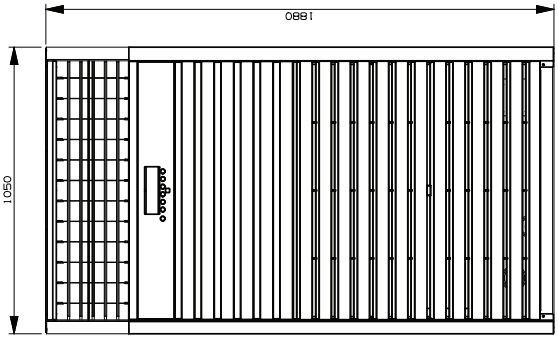


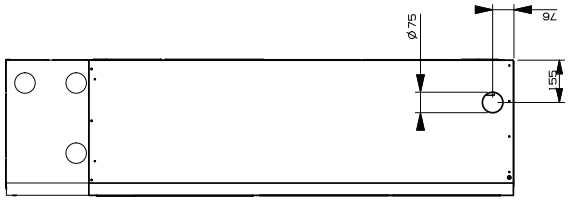
No.	Part Name	Description
6	Remote controller receiver	-
5	Drain routing hole	-
4	Wiring hole	-
3	Piping hole	-
2	Air outlet	-
1	Inlet grille	-

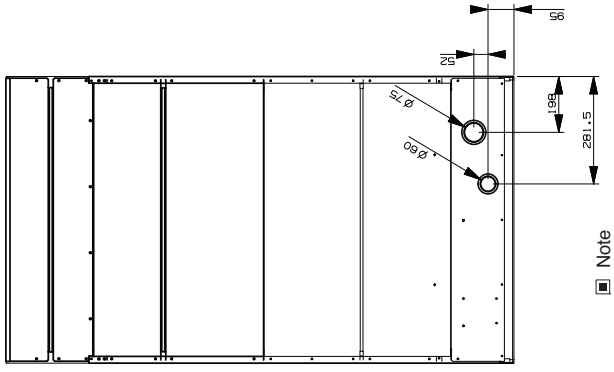
Note
1. Unit should be installed in compliance with the installation manual in the product box.
2. Unit should be grounded in accordance with the local regulations or applicable national codes.
3. All electrical components and materials to be supplied from the site must comply with the local regulations 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.

PF2 Chassis
APNQ100LFA0







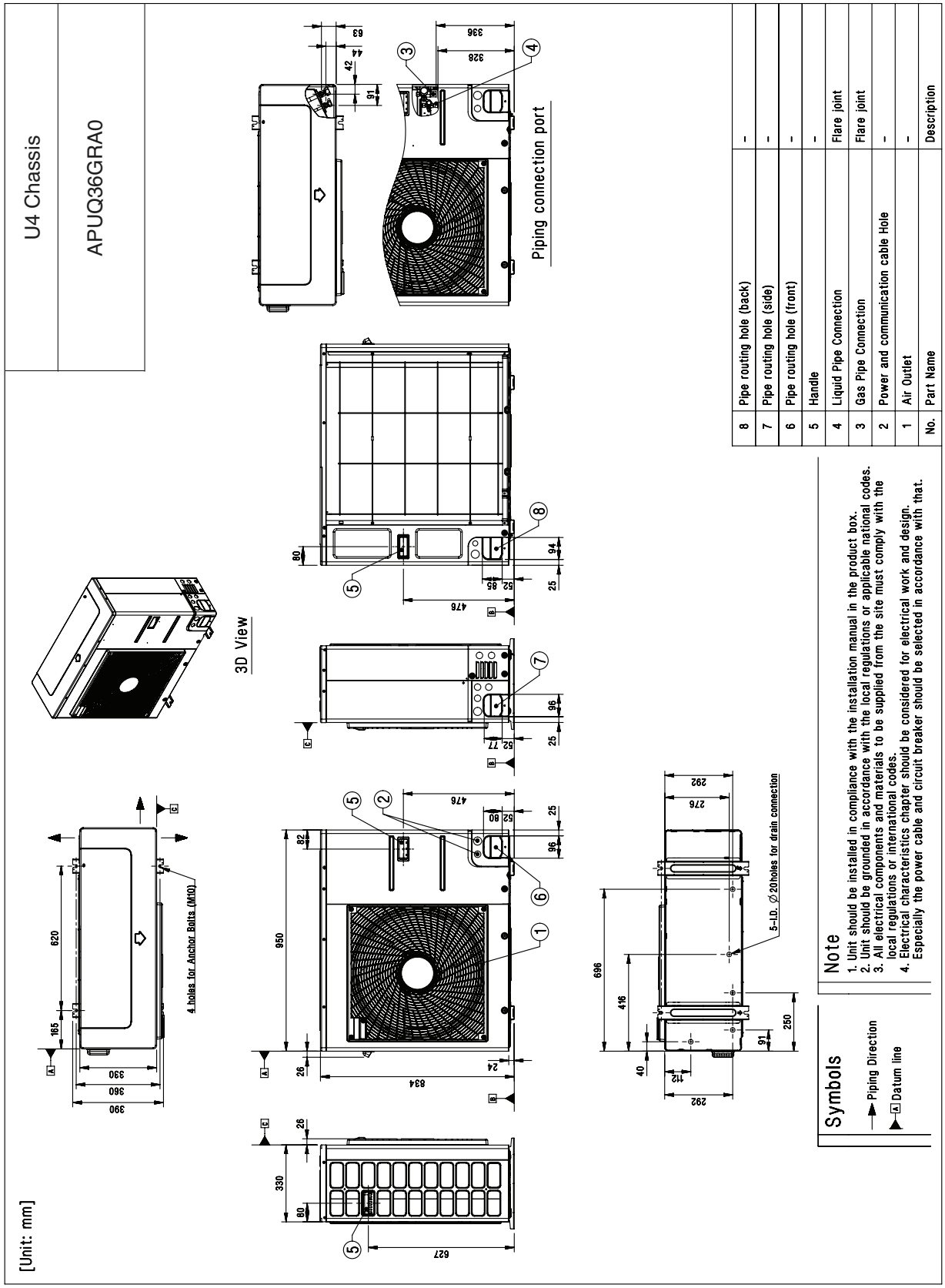


▣ Note

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 on the site must comply with the local regulations or international codes.
4. Electrical characteristics chapter should be considered for electrical work and design. Especially the capacity of power cable and circuit breaker for outdoor unit should be more than that of electrical characteristics chapter.

[Unit: mm]

5.2 Outdoor Units



No.	Part Name	Description
8	Pipe routing hole (back)	-
7	Pipe routing hole (side)	-
6	Pipe routing hole (front)	-
5	Handle	-
4	Liquid Pipe Connection	Flare joint
3	Gas Pipe Connection	Flare joint
2	Power and communication cable Hole	-
1	Air Outlet	-

Symbols

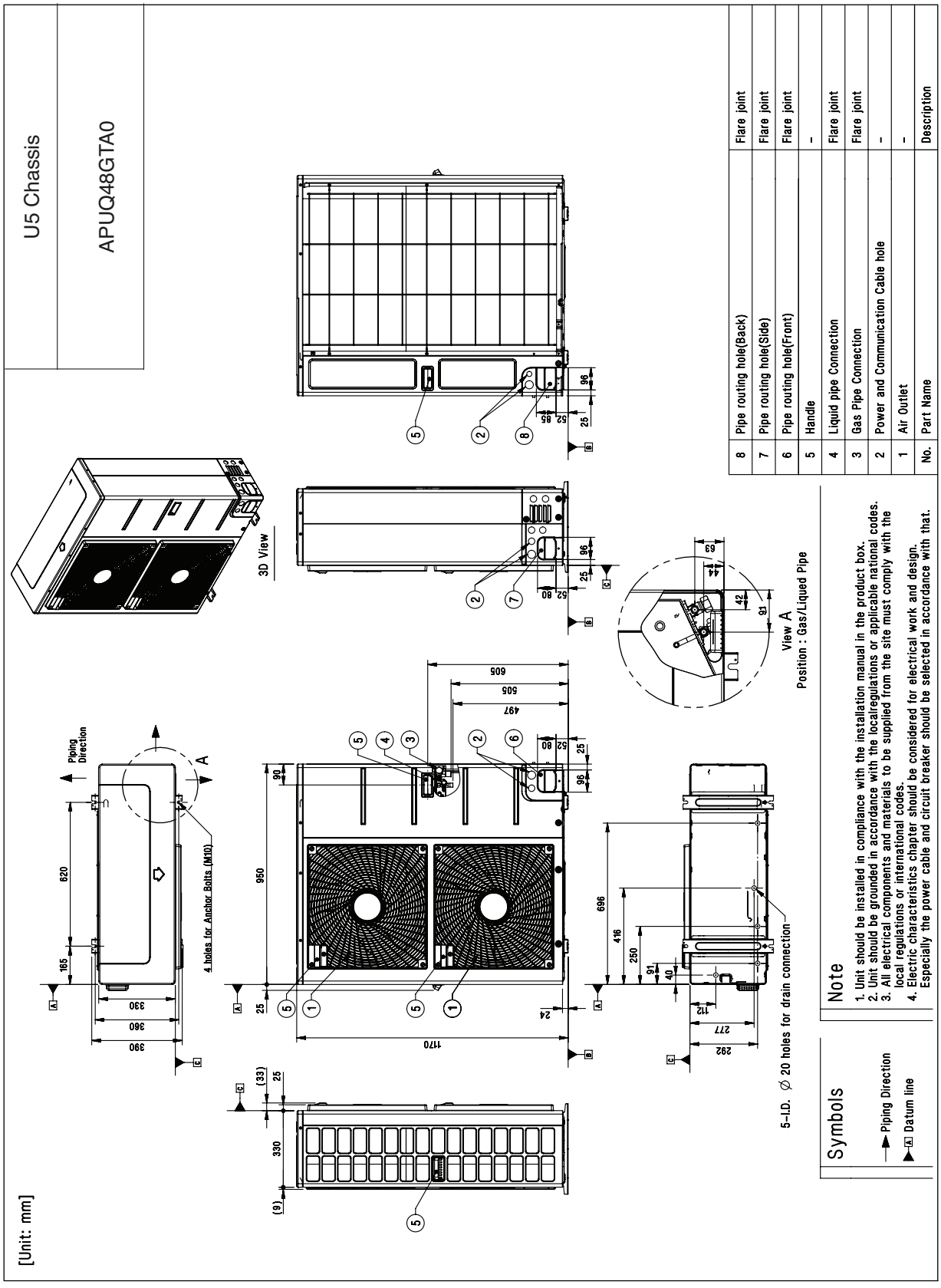
Piping Direction

Datum line

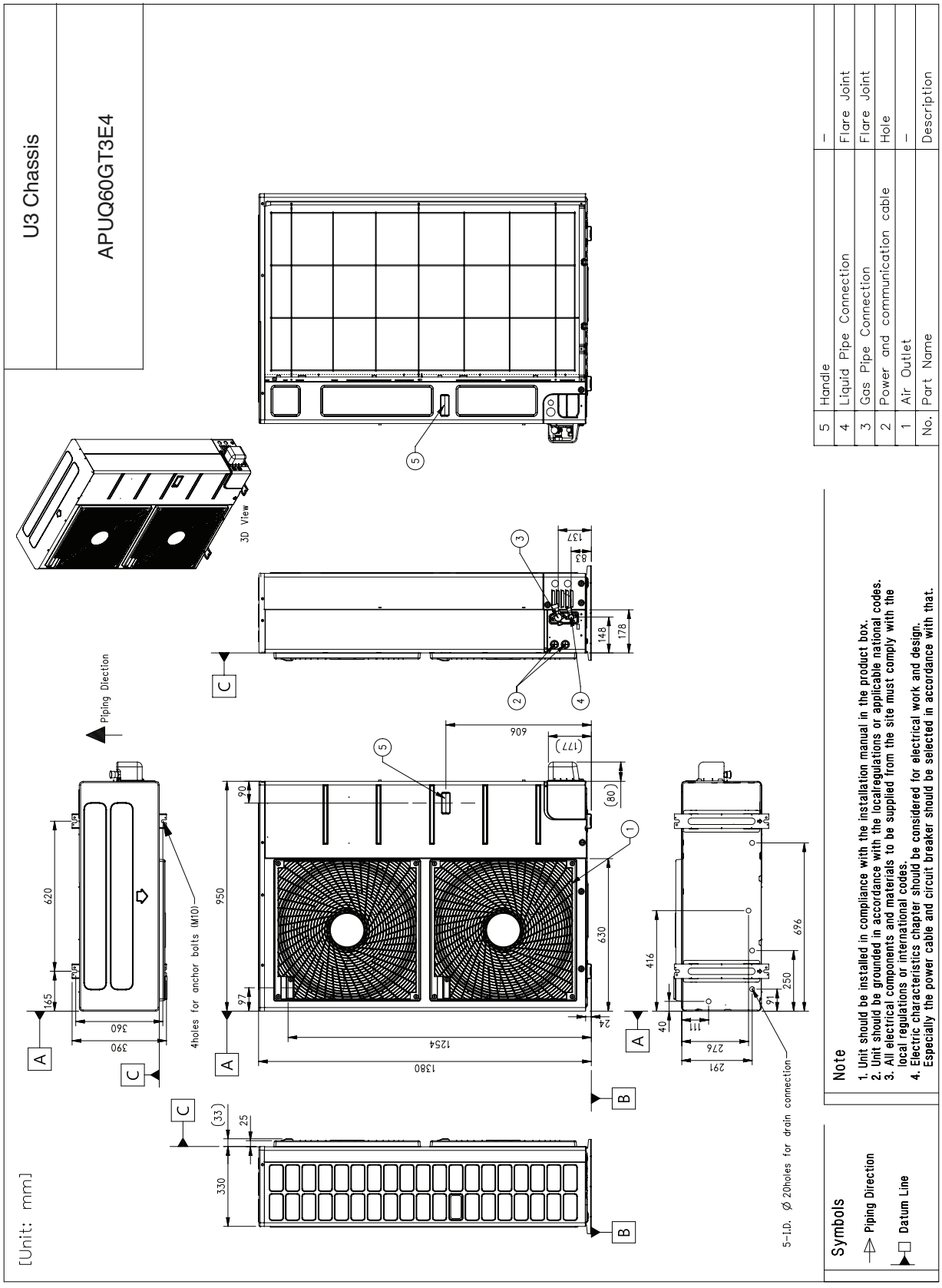
Note

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. Electrical characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

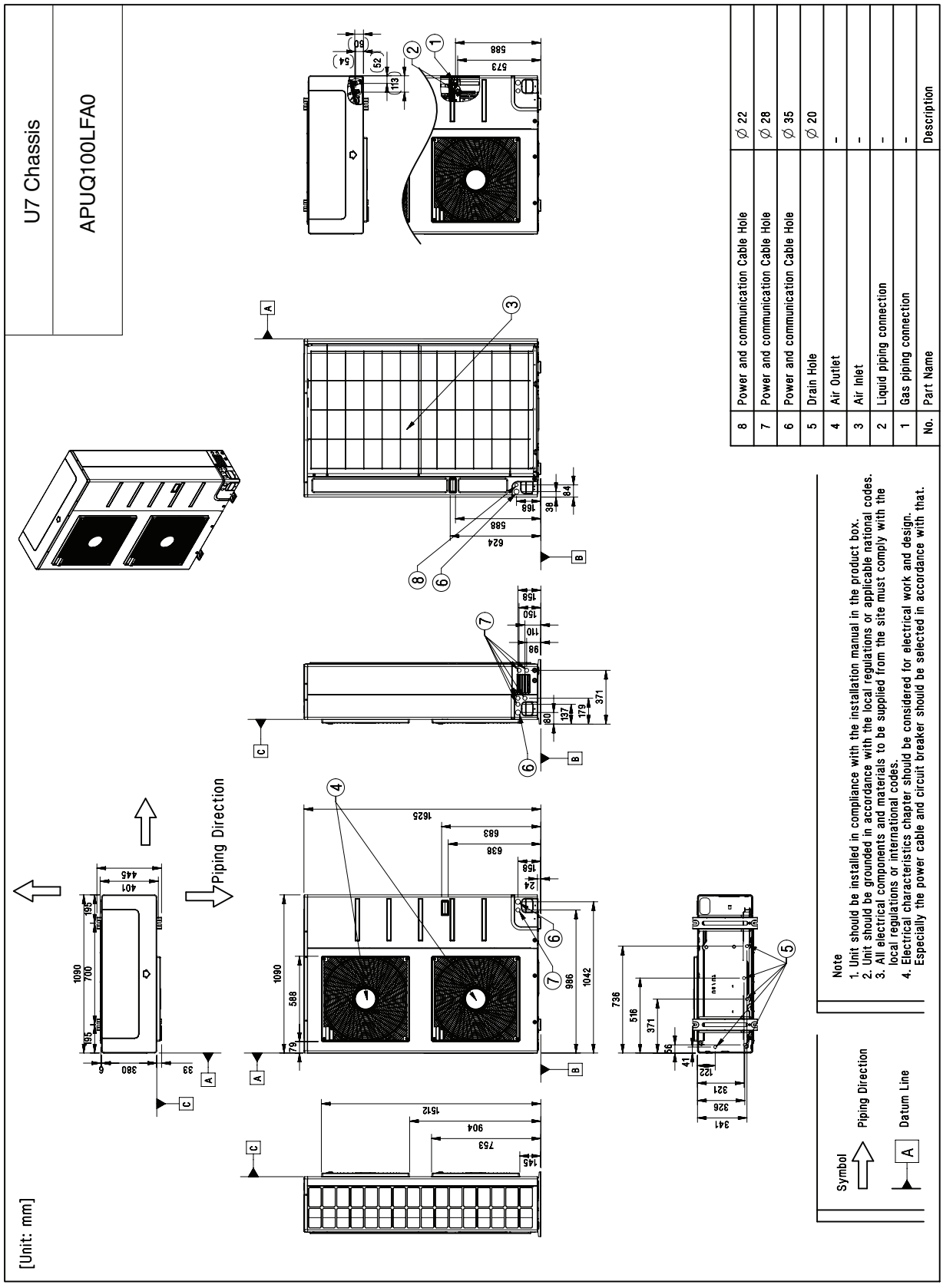
5. Dimensions



Floor Standing
5. Dimensions

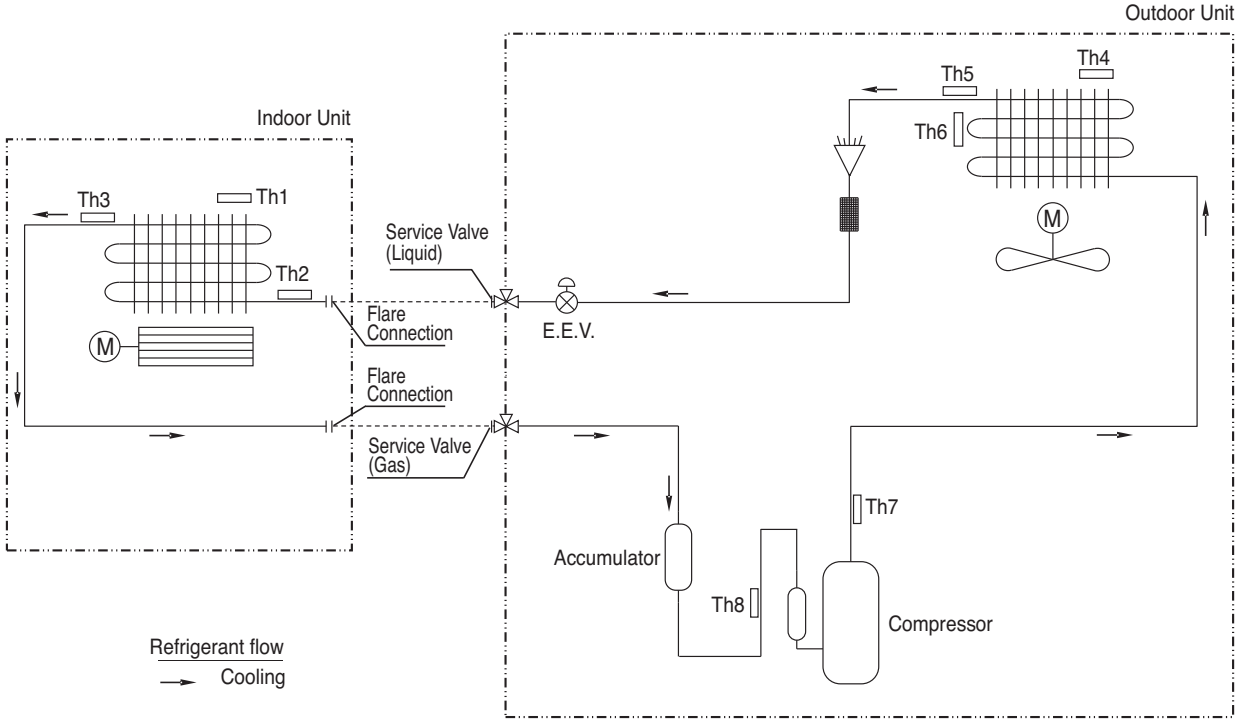


5. Dimensions



6. Piping Diagrams

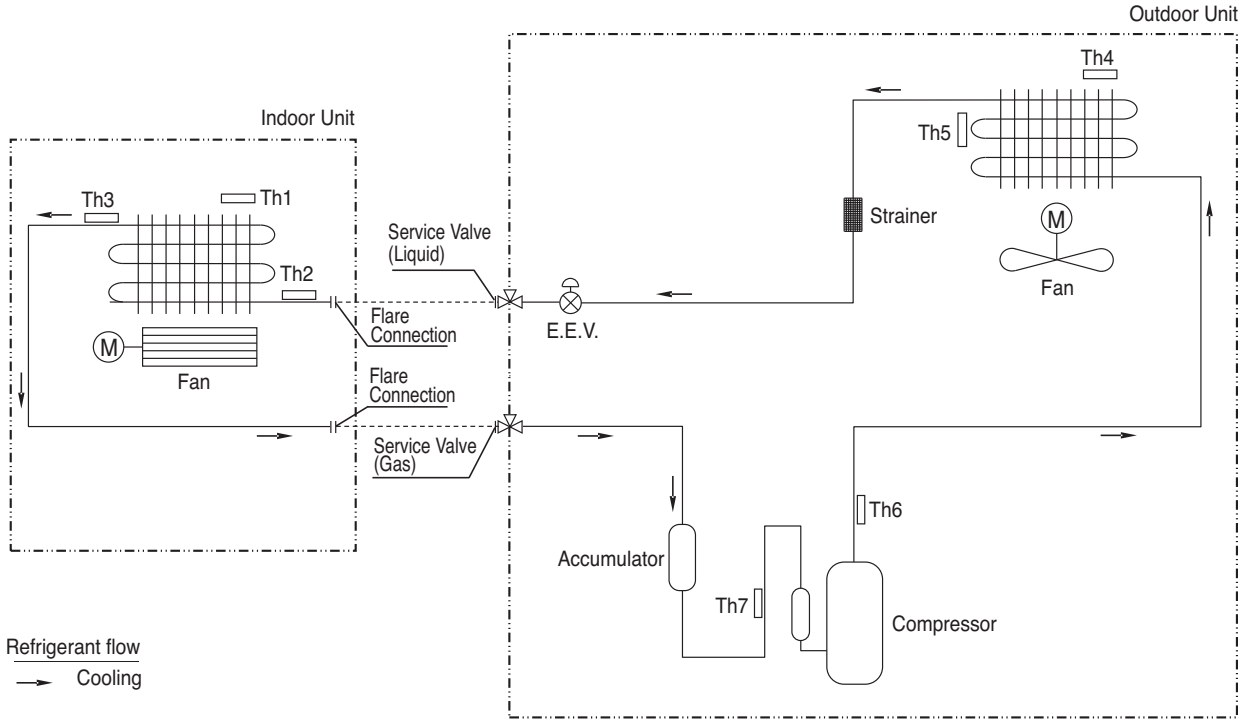
Models : AP-Q36GRA0



Location	Description	PCB Connector
Th1	Thermistor for indoor room temperature	CN-ROOM/TH
Th2	Thermistor for evaporator inlet temperature	CN-EVA/TH
Th3	Thermistor for evaporator outlet temperature	CN-EVA/TH2
Th4	Thermistor for outdoor air temperature	CN-TH3
Th5	Thermistor for condensing temperature(outlet)	CN-TH3
Th6	Thermistor for condensing temperature(mid)	CN-TH1
Th7	Thermistor for discharge pipe temperature	CN-TH2
Th8	Thermistor for suction pipe temperature	CN-TH2

6. Piping Diagrams

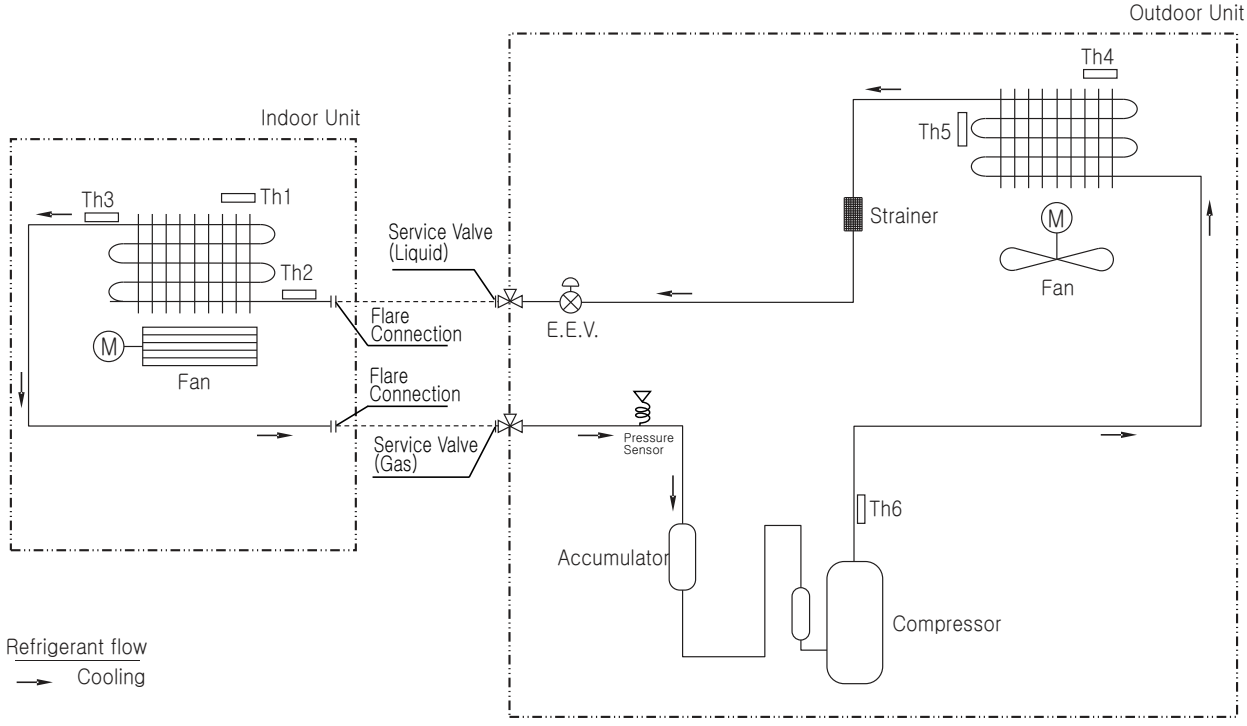
Models : AP-Q48GTA0



Location	Description	PCB Connector
Th1	Thermistor for indoor room temperature	CN-ROOM/TH
Th2	Thermistor for evaporator inlet temperature	CN-EVA/TH
Th3	Thermistor for evaporator outlet temperature	CN-EVA/TH2
Th4	Thermistor for outdoor air temperature	CN-TH2
Th5	Thermistor for condensing temperature(mid)	CN-TH4
Th6	Thermistor for discharge pipe temperature	CN-TH3
Th7	Thermistor for suction pipe temperature	CN-TH3

Floor Standing
6. Piping Diagrams

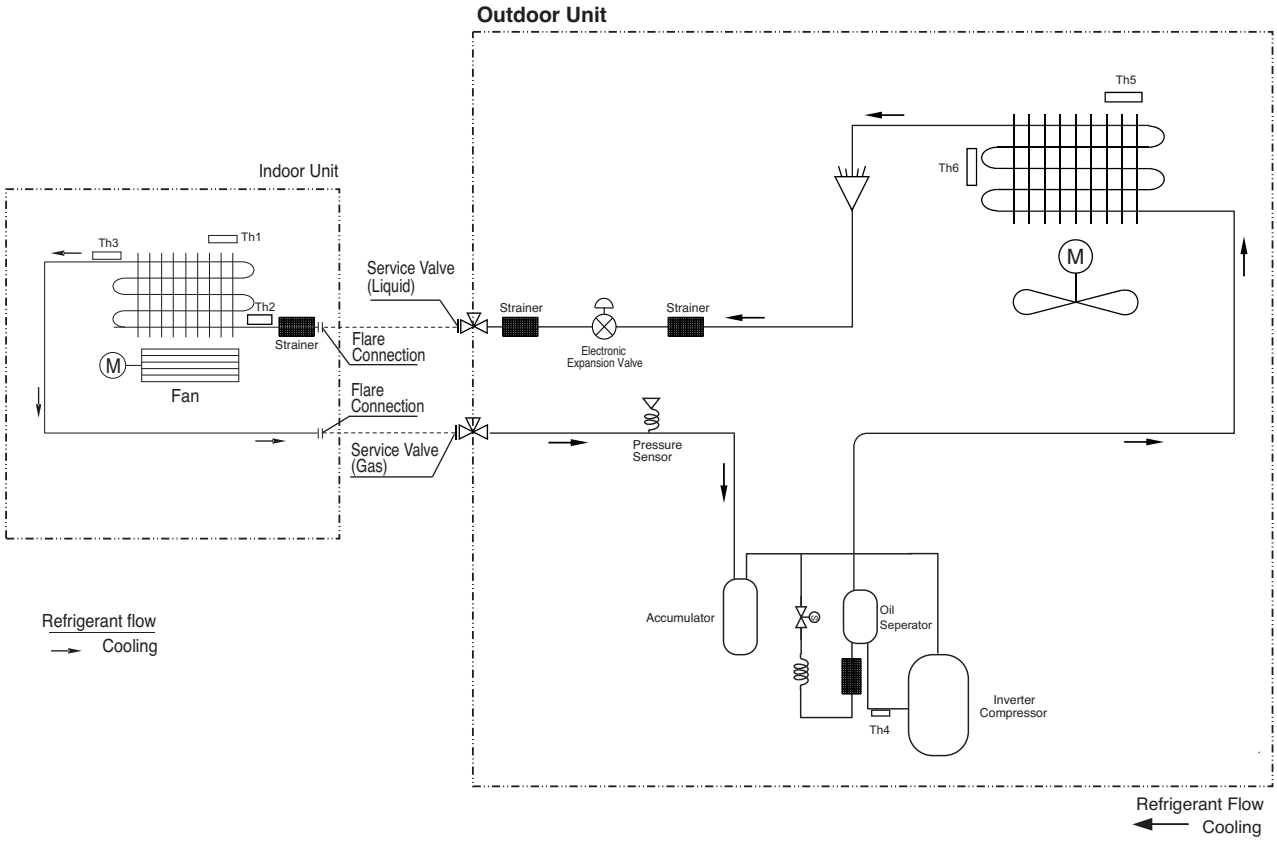
Models : AP-Q60GT3E4



Location	Description	PCB Connector
Th1	Thermistor for indoor room temperature	CN-ROOM/TH
Th2	Thermistor for evaporator inlet temperature	CN-EVA/TH
Th3	Thermistor for evaporator outlet temperature	CN-EVA/TH2
Th4	Thermistor for outdoor air temperature	CN_AIR
Th5	Thermistor for condensing temperature(mid)	CN_MID
Th6	Thermistor for discharge pipe temperature	CN_DISCHA

6. Piping Diagrams

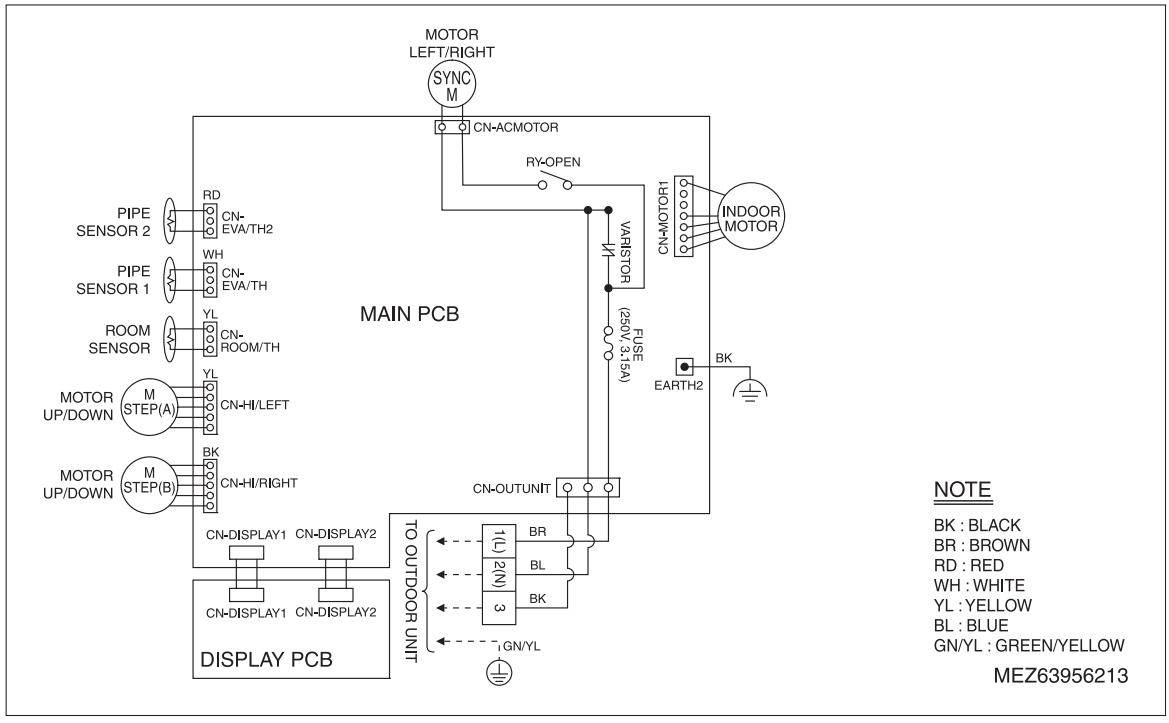
Models : AP-Q100LFA0

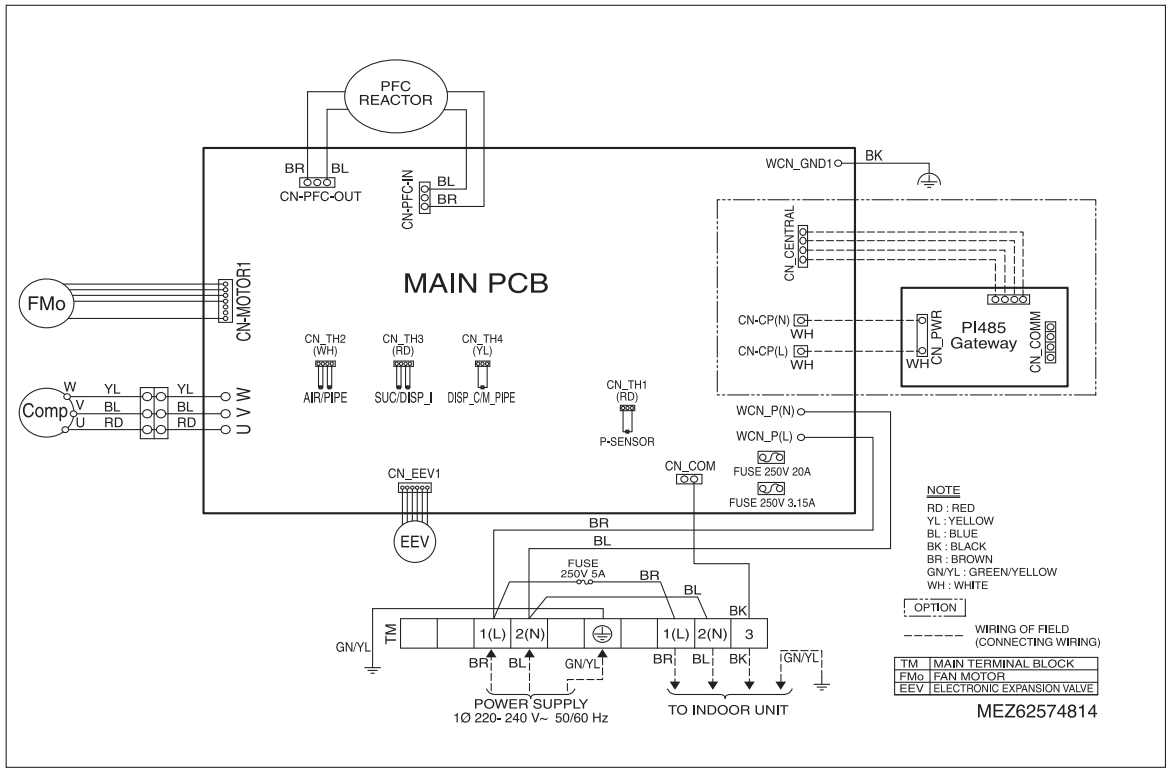


Location	Description	PCB Connector
Th1	Thermistor for indoor room temperature	CN-ROOM/TH
Th2	Thermistor for evaporator inlet temperature	CN-EVA/TH
Th3	Thermistor for evaporator outlet temperature	CN-EVA/TH2
Th4	Thermistor for discharge temperature	CN_DISCHA_BK
Th5	Thermistor for inlet air temperature	CN_AIR_YL
Th6	Thermistor for condensing temperature	CN_MID_BR
-	Pressure Sensor	CN_H_PRESS_RD

Floor Standing
7. Wiring Diagrams

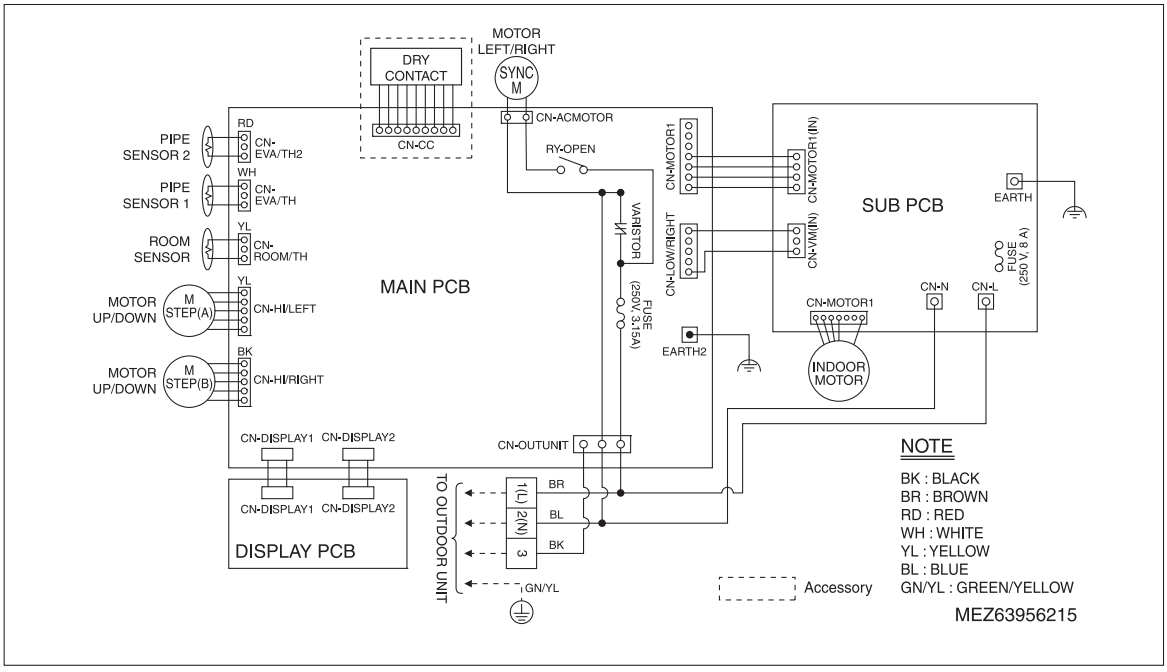
Models : AP-Q36GRA0

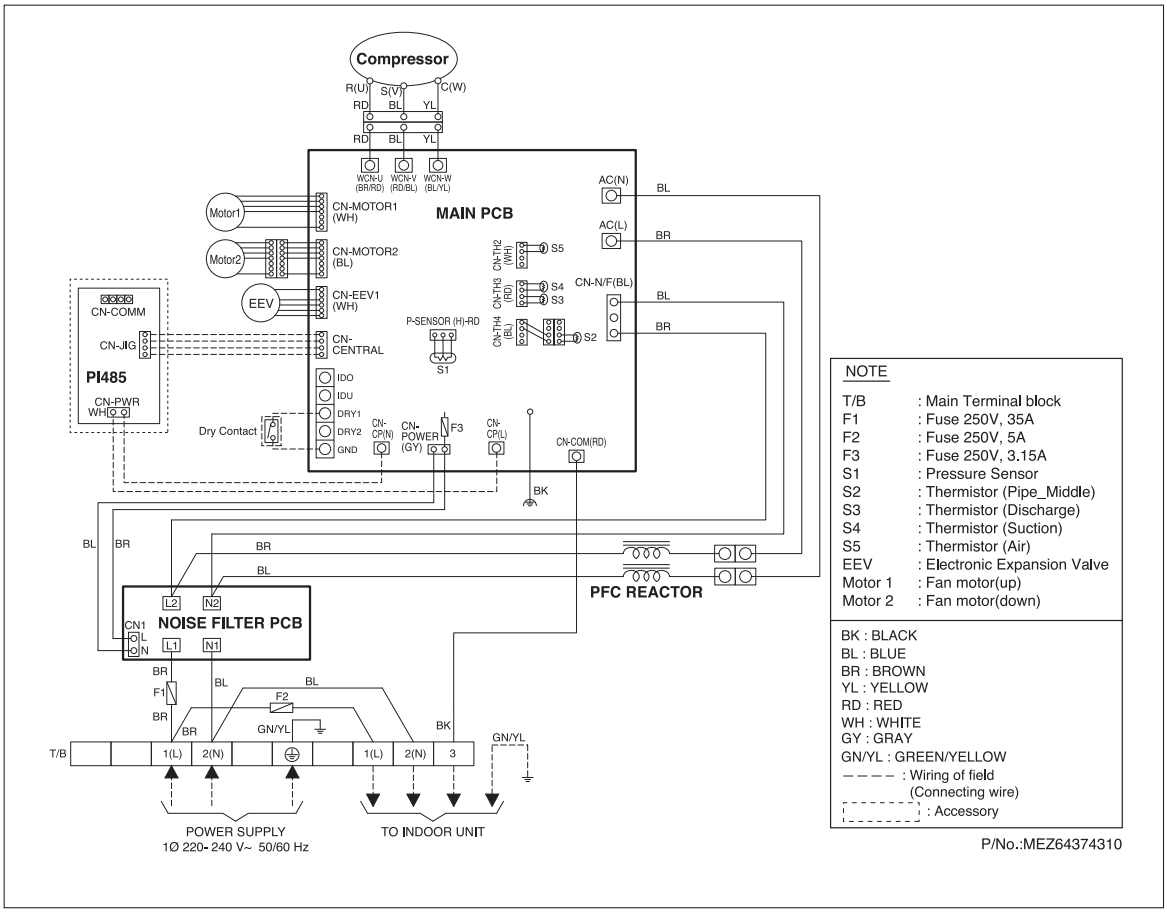




7. Wiring Diagrams

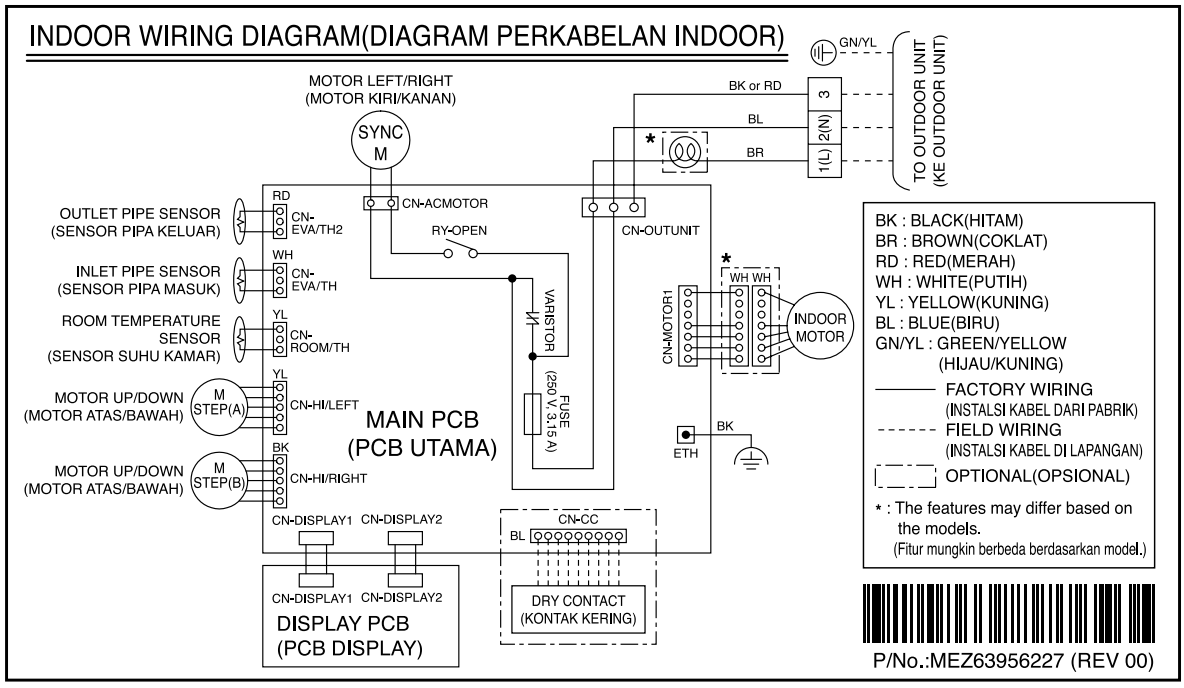
Models : AP-Q48GTA0

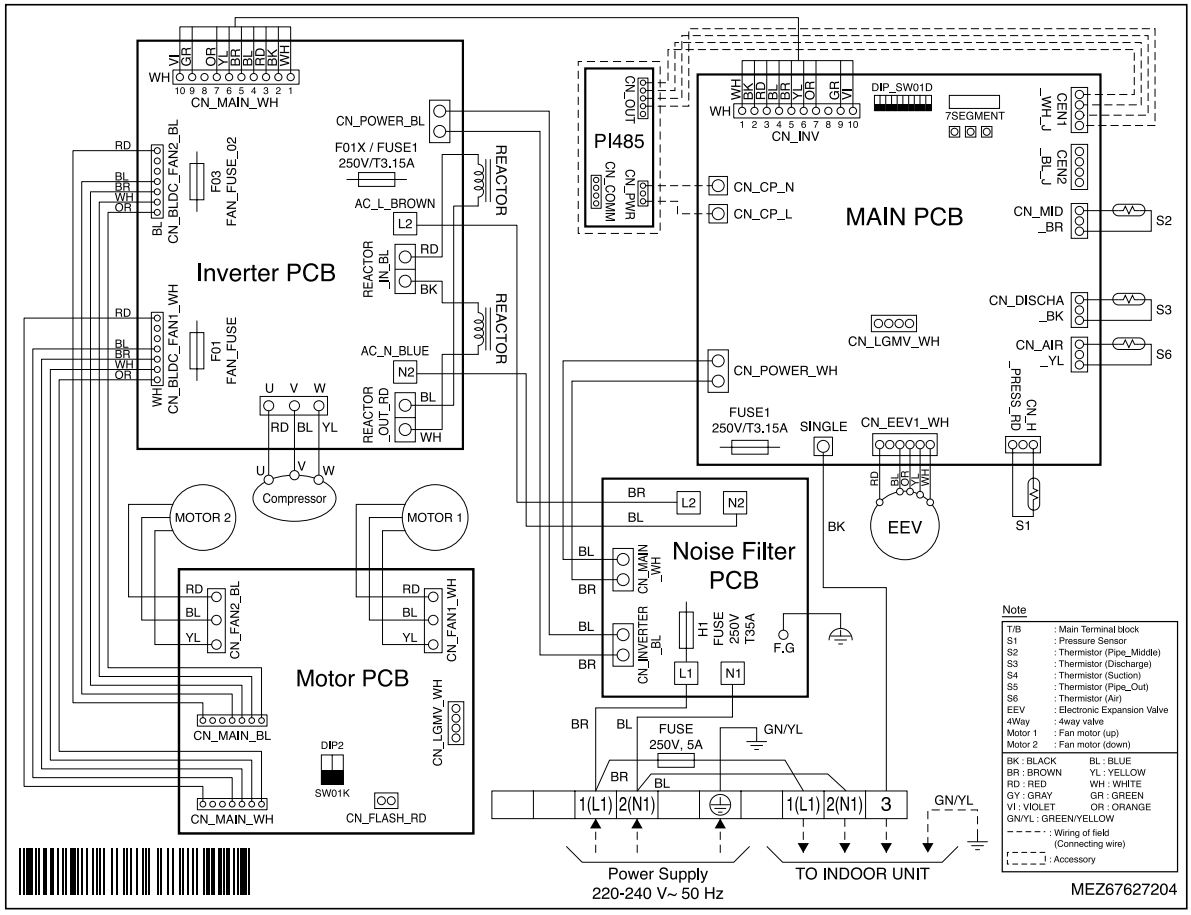




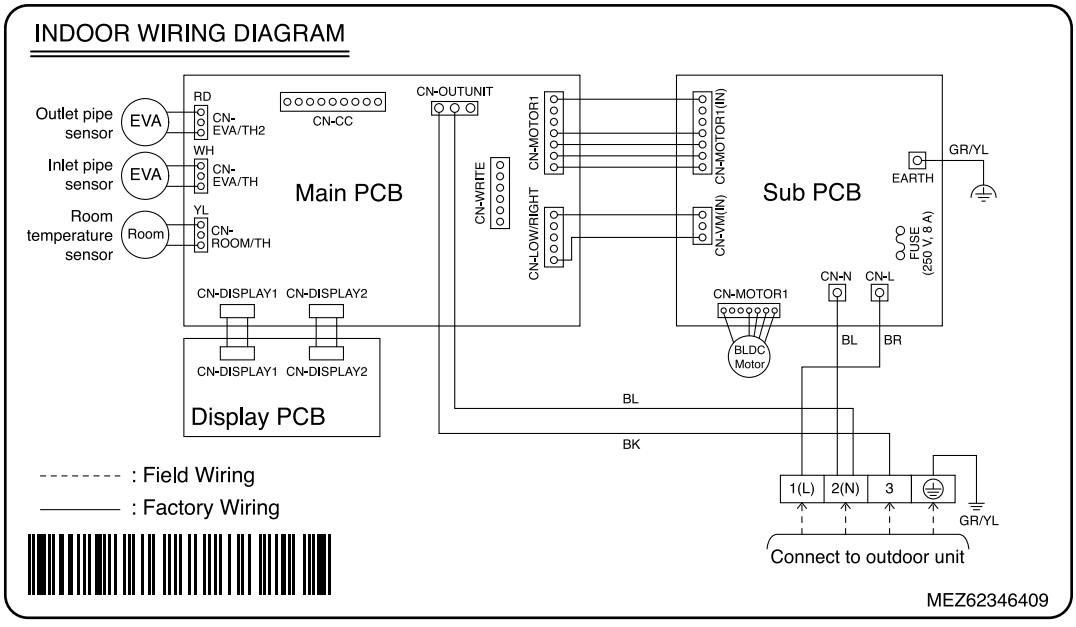
Floor Standing
7. Wiring Diagrams

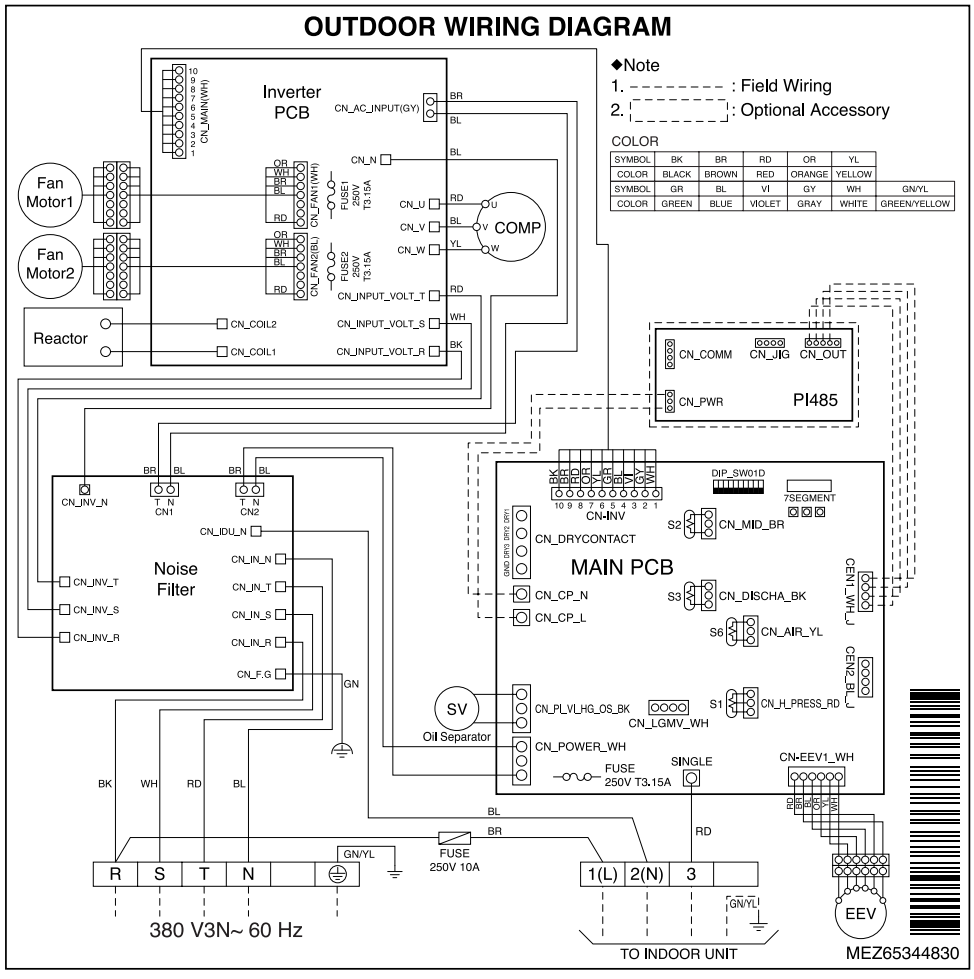
Models : AP-Q60GT3E4





Models : AP-Q100LFA0





8. Capacity Tables

Models: AP-Q36GRA0

Indoor Air Temperature		Outdoor Air Temperature (°CDB)																				
		20			25			32			35			40			43			46		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	10.30	7.71	1.82	9.85	7.46	1.90	9.25	7.16	2.56	8.96	6.92	2.85	8.57	6.71	3.13	8.34	6.47	3.07	8.10	6.27	2.75
16.0	22.0	10.93	7.81	2.47	10.48	7.58	2.49	9.87	7.30	3.02	9.59	7.06	3.24	9.20	6.87	3.38	8.96	6.64	3.21	8.72	6.45	2.79
18.0	25.0	11.56	7.88	2.67	11.11	7.66	2.69	10.50	7.40	3.17	10.21	7.17	3.36	9.82	6.99	3.42	9.58	6.77	3.21	9.35	6.58	2.72
19.0	27.0	11.88	7.95	2.70	11.42	7.73	2.73	10.82	7.48	3.20	10.50	7.24	3.30	10.13	7.08	3.43	9.90	6.86	3.20	9.66	6.68	2.70
22.0	30.0	12.83	8.11	2.70	12.37	7.91	2.77	11.76	7.68	3.28	11.46	7.46	3.46	11.07	7.31	3.49	10.83	7.10	3.23	10.60	6.92	2.70
24.0	32.0	13.46	8.26	2.69	13.00	8.07	2.80	12.38	7.85	3.34	12.09	7.64	3.53	11.69	7.49	3.56	11.46	7.28	3.30	11.22	7.11	2.76

Models: AP-Q48GTA0

Indoor Air Temperature		Outdoor Air Temperature (°CDB)																				
		20			25			32			35			40			43			46		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	13.83	10.02	2.29	13.22	9.70	2.39	12.42	9.30	3.22	12.04	8.96	3.59	11.51	8.52	3.94	11.19	8.42	3.86	10.88	8.20	3.46
16.0	22.0	14.68	10.45	3.11	14.07	10.13	3.14	13.26	9.76	3.79	12.88	9.63	4.07	12.35	9.19	4.24	12.03	9.10	4.04	11.72	8.87	3.51
18.0	25.0	15.53	10.82	3.36	14.92	10.51	3.38	14.10	10.15	3.98	13.72	10.04	4.22	13.19	9.60	4.30	12.87	9.52	4.03	12.55	9.30	3.42
19.0	27.0	15.95	11.09	3.40	15.34	10.78	3.43	14.52	10.43	4.03	14.10	10.29	4.15	13.61	9.88	4.32	13.29	9.81	4.03	12.97	9.59	3.39
22.0	30.0	17.23	11.31	3.40	16.61	11.03	3.49	15.79	10.71	4.12	15.39	10.61	4.35	14.86	10.19	4.38	14.55	10.14	4.06	14.23	9.94	3.39
24.0	32.0	18.08	11.52	3.38	17.46	11.25	3.52	16.63	10.95	4.20	16.23	10.86	4.44	15.70	10.45	4.48	15.39	10.41	4.16	15.07	10.21	3.47

Models: AP-Q60GT3E4

Indoor Air Temperature		Outdoor Air Temperature (°CDB)																				
		20			25			32			35			40			43			46		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	13.83	11.26	2.35	13.22	10.90	2.46	12.42	10.46	3.30	12.04	10.11	3.68	11.51	9.80	4.04	11.19	9.45	3.96	10.88	9.16	3.56
16.0	22.0	14.68	11.41	3.19	14.07	11.07	3.22	13.26	10.66	3.89	12.88	10.32	4.18	12.35	10.03	4.36	12.03	9.70	4.15	11.72	9.42	3.60
18.0	25.0	15.53	11.51	3.45	14.92	11.19	3.47	14.10	10.81	4.09	13.72	10.48	4.26	13.19	10.21	4.42	12.87	9.89	4.14	12.55	9.62	3.51
19.0	27.0	15.95	11.61	3.49	15.34	11.30	3.52	14.52	10.93	4.13	14.10	10.58	4.26	13.61	10.35	4.43	13.29	10.03	4.13	12.97	9.76	3.48
22.0	30.0	17.23	11.84	3.49	16.61	11.55	3.58	15.79	11.22	4.23	15.39	10.90	4.47	14.86	10.68	4.50	14.55	10.37	4.17	14.23	10.11	3.48
24.0	32.0	18.08	12.06	3.47	17.46	11.78	3.61	16.63	11.47	4.31	16.23	11.16	4.56	15.70	10.95	4.60	15.39	10.64	4.27	15.07	10.39	3.57

Notes:
1. All capacites are net, evaporator fan motor heat is deducted.
2. DB=Dry Bulb Temperature(°C), WB=Wet Bulb Temperature(°C)
3. TC=Total cooling capacity(Unit:kW)
4. SHC=Sensible heat capacity(Unit: kW)
5. PI=Power Input(Comp.+ indoor fan motor+outdoor fan motor) (kW)

8. Capacity Tables

Models: AP-Q100LFA0

Indoor Air Temperature		Outdoor Air Temperature (°CDB)																				
		20			25			32			35			40			43			46		
°CWB	°CDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14.0	20.0	28.16	21.45	6.41	26.94	20.76	7.79	25.29	19.92	8.91	24.52	19.25	9.69	23.45	18.66	10.64	22.80	18.01	10.70	22.16	17.45	9.36
16.0	22.0	29.89	21.73	8.40	28.66	21.08	8.89	27.01	20.30	10.24	26.23	19.65	11.00	25.15	19.11	11.47	24.51	18.47	11.19	23.86	17.93	9.47
18.0	25.0	31.63	21.92	9.08	30.39	21.31	9.13	28.72	20.59	10.75	27.94	19.95	11.40	26.86	19.45	11.63	26.22	18.84	11.18	25.57	18.32	9.49
19.0	27.0	32.49	22.12	9.18	31.25	21.51	9.26	29.58	20.82	10.87	28.72	20.14	11.50	27.72	19.71	11.66	27.07	19.10	11.15	26.43	18.59	9.40
22.0	30.0	35.10	22.56	9.18	33.84	22.00	9.42	32.16	21.37	11.13	31.35	20.76	11.75	30.28	20.33	11.84	29.63	19.74	11.26	28.99	19.26	9.40
24.0	32.0	36.83	22.98	9.36	35.56	22.44	9.50	33.87	21.85	11.34	33.06	21.25	11.99	31.99	20.85	12.10	31.34	20.27	11.51	30.70	19.79	9.63

Notes:
1. All capacites are net, evaporator fan motor heat is deducted.
2. DB=Dry Bulb Temperature(°C), WB=Wet Bulb Temperature(°C)
3. TC=Total cooling capacity(Unit:kW)
4. SHC=Sensible heat capacity(Unit: kW)
5. PI=Power Input(Comp.+ indoor fan motor+outdoor fan motor) (kW)

9. The Coefficient of Capacity Change

1) Rate of change in capacity due to the pipe length

Capacity coefficient factor for piping length

Capacity class (kBtu/h, by Model name)		Pipe length(m)										
		5	7.5	10	15	20	25	30	35	40	45	50
Capacity coefficient factor for piping length (F_{piping})	36 / 48	1.000	1.000	0.993	0.980	0.967	0.953	0.940	0.927	0.914	0.900	0.887
	60	1.000	1.000	1.000	0.979	0.966	0.952	0.938	0.925	0.911	0.898	0.884
	100	1.000	0.996	0.992	0.984	0.977	0.969	0.961	0.953	0.946	0.938	0.930

Notes
Equivalent pipe length(m) = actual pipe length(m) + number of band x 0.3(m)

2) Calculation of actual system capacity

① $Q_{(Ti, To)}$ **:** Outdoor unit capacity at Ti, To from capacity table

- Ti : Indoor air temperature
- To : Outdoor air temperature

② F_{piping} **:** Piping correction factor from capacity coefficient factor table

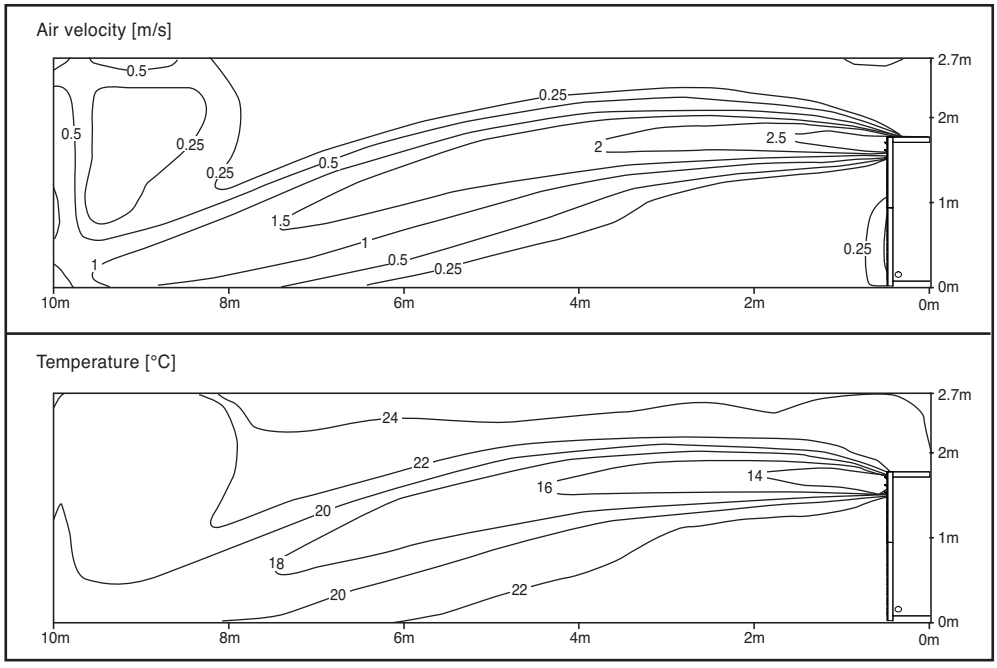
③ Q_{actual} **:** Actual capacity of indoor unit

$$Q_{actual} = Q_{(Ti, To)} \times F_{piping}$$

10. Air flow and temperature distributions (reference data)

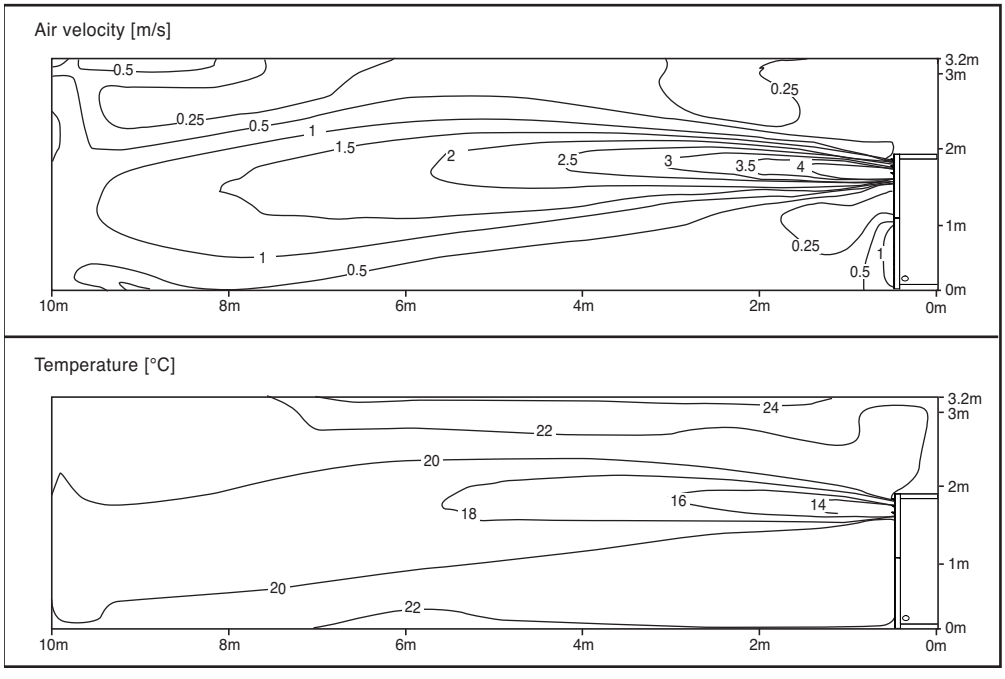
Models: APNQ36GRA0

Discharge Angle : 90˚



Models: APNQ48GTA0

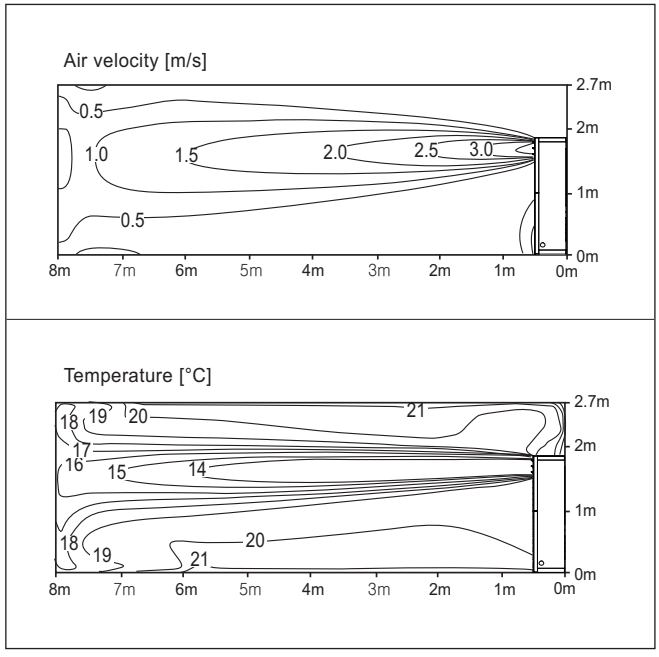
Discharge Angle : 90˚



Floor Standing
10. Air flow and temperature distributions (reference data)

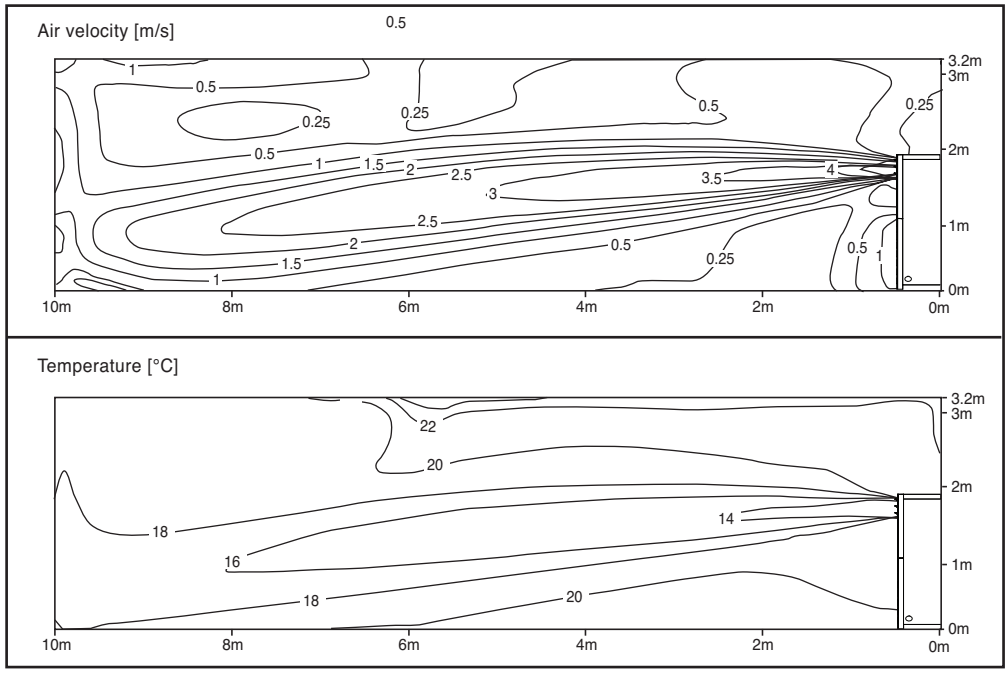
Models: APNQ60GT3E4

Discharge Angle : 90˚



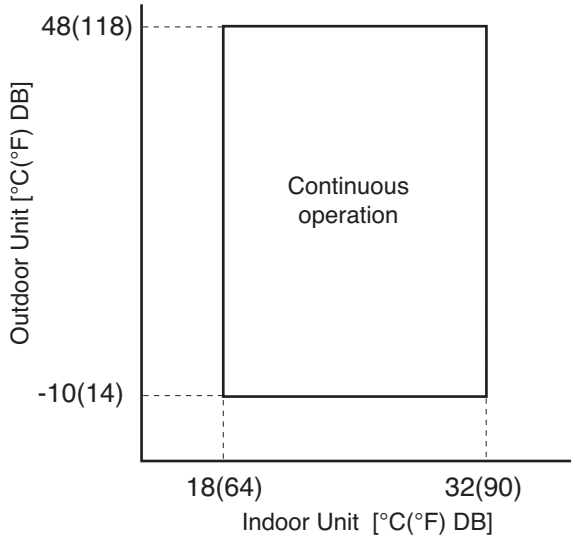
Models: APNQ100LFA0

Discharge Angle : 90˚



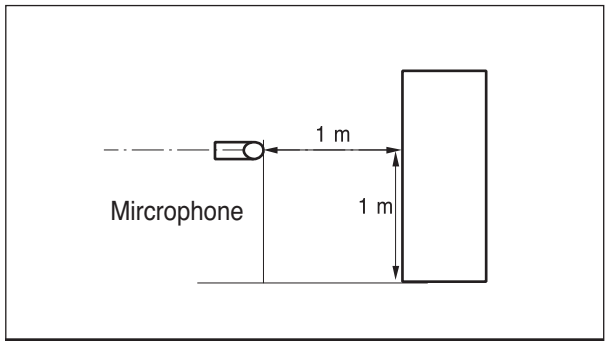
11. Operation Range

Cooling



12. Sound Levels

12.1 Indoor Units

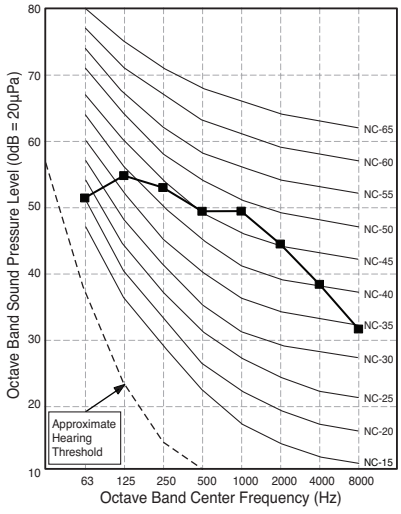


Notes :
1. Sound measured at each 1m away from the front and bottom of the unit
2. Operating condition
   - Power source : 220-240V, 50Hz / 220V, 60Hz
   - Cooling : Indoor temperature (27°C DB, 19°C WB),
     Outdoor temperature (35°C DB, 24°C WB)
3. Reference accoustic pressure 0dB = 20μPa
4. Sound 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.

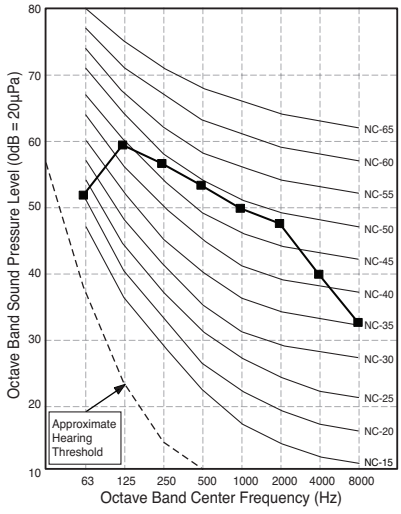
Model	Sound Levels dB(A)			
	SH	H	M	L
APNQ36GRA0	52	48	44	41
APNQ48GTA0	53	50	47	43
APNQ60GT3E4	53	50	47	45
APNQ100LFA0	58	55	-	51

Sound Pressure Level

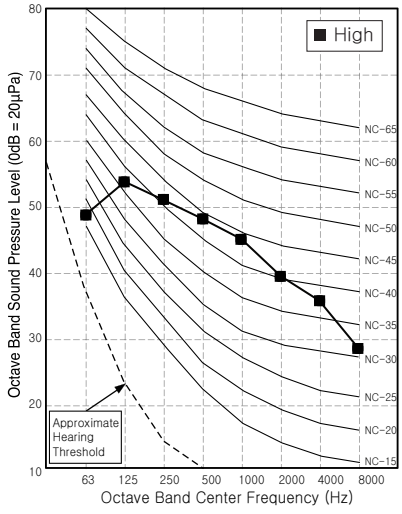
APNQ36GRA0



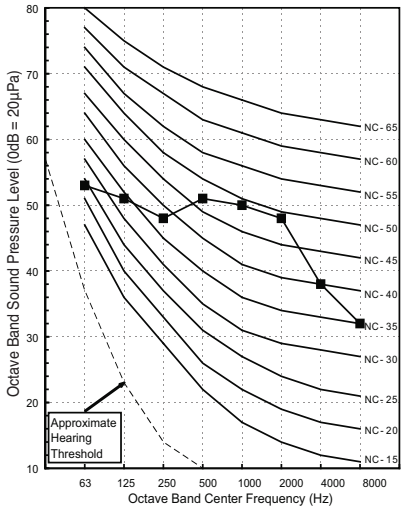
APNQ48GTA0



APNQ60GT3E4

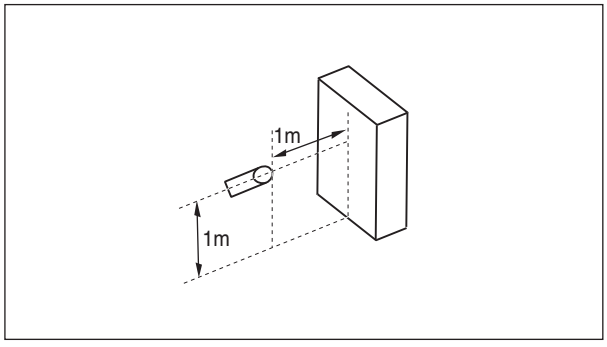


APNQ100LFA0



Floor Standing
12. Sound Levels

12.2 Outdoor Units

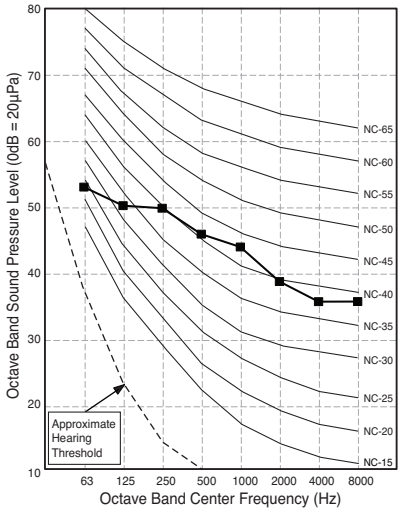


Notes:
1. Sound measured at 1m away from the center of the unit
2. Operating condition
   - Power source : 220-240V, 50Hz / 220V, 60Hz
   - Cooling : Indoor temperature (27°C DB, 19°C WB),
     Outdoor temperature (35°C DB, 24°C WB)
3. Reference accoustic pressure 0dB = 20μPa
4. Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment in installed.

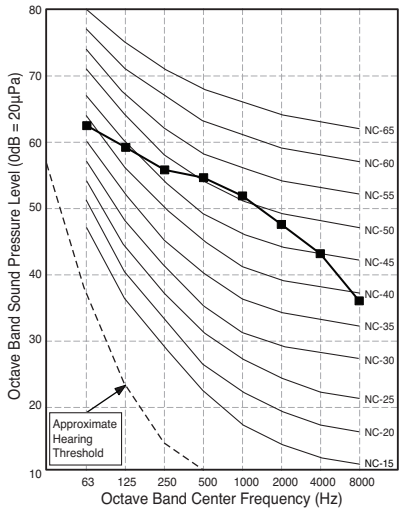
Model	Sound Levels dB(A)
APUQ36GRA0	54
APUQ48GTA0	55
APUQ60GT3E4	59
APUQ100LFA0	60

Sound Pressure Level

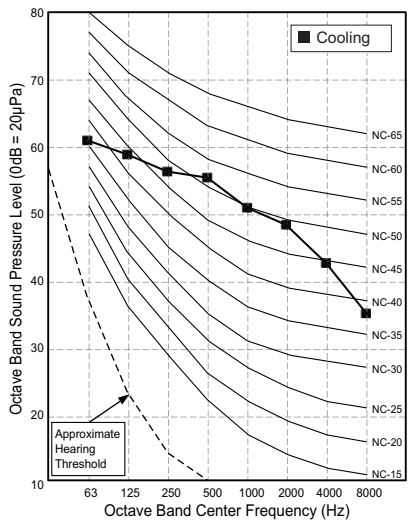
APUQ36GRA0



APUQ48GTA0

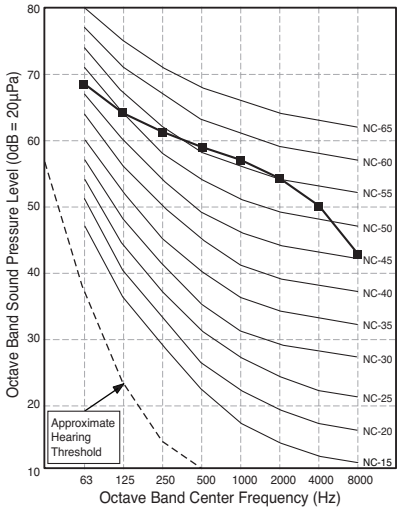


APUQ60GT3E4



12. Sound Levels

APUQ100LFA0



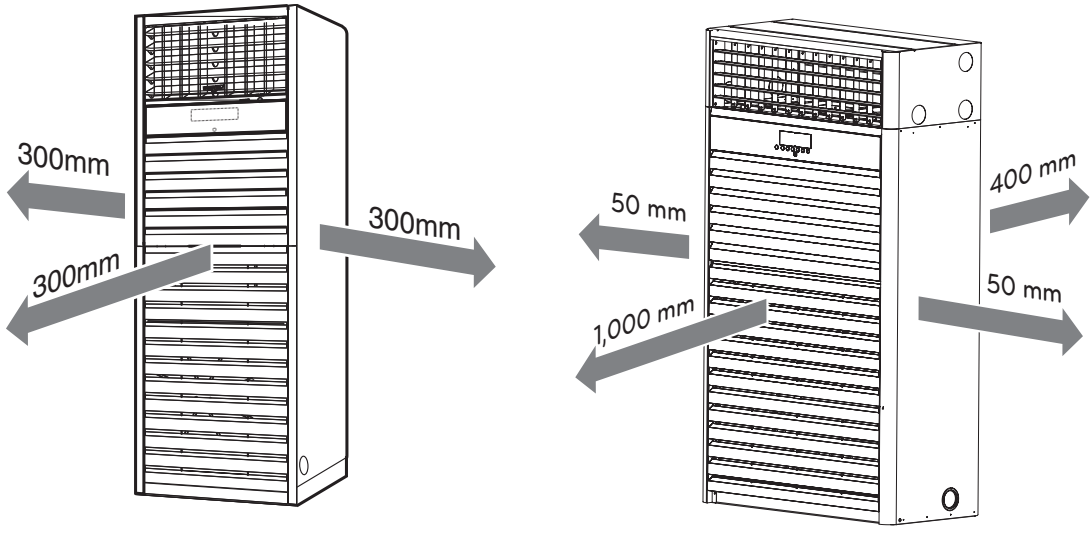
13. Installation

- Please read this instruction sheet completely before installing the product.
- When the power cord is damaged, replacement work shall be performed by authorized personnel only.
- Installation work must be performed in accordance with the national wiring standards by authorized personnel only.

13.1 Select the best location

13.1.1 Indoor Unit

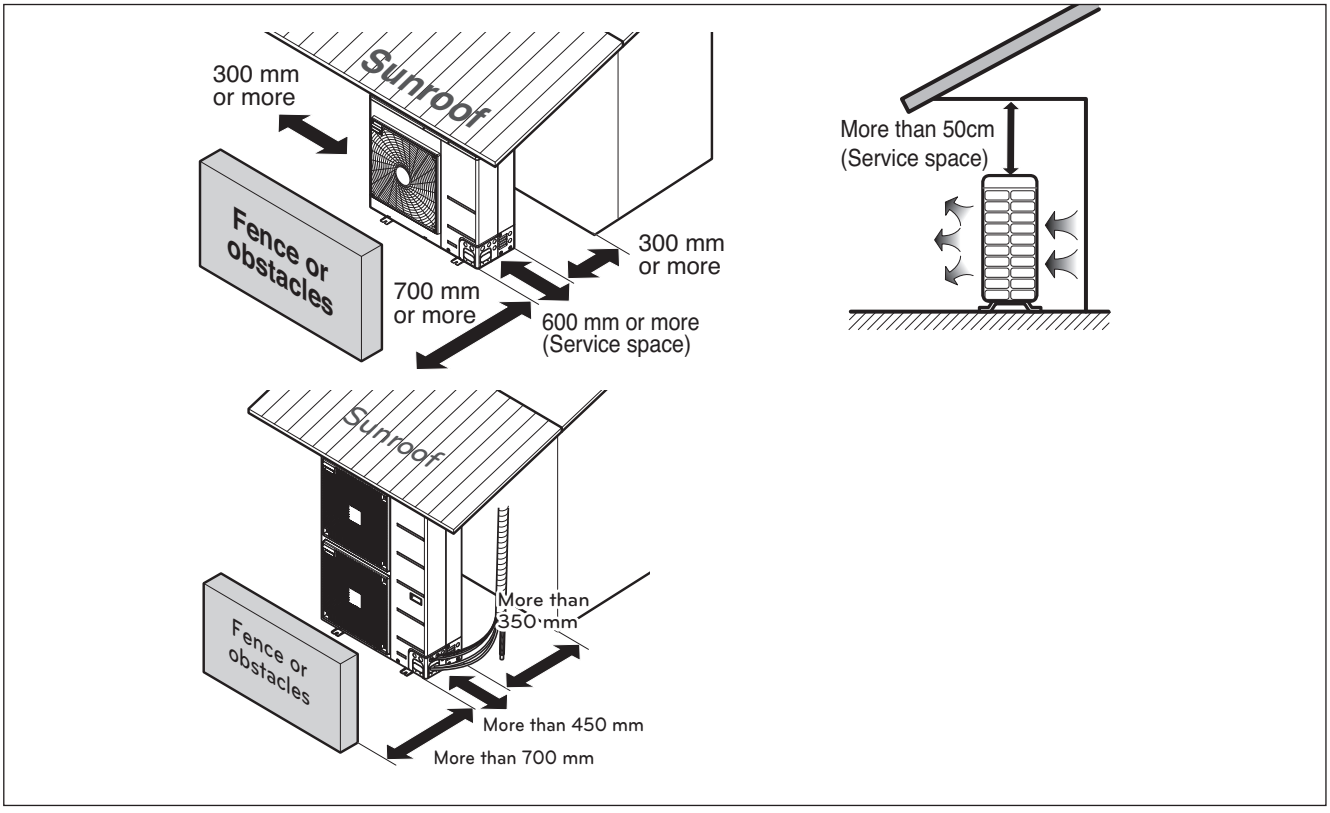
- There should not be any heat source or steam near the unit.
- There should not be any obstacles to prevent the air circulation.
- A place where air circulation in the room will be good.
- A place where drainage can be easily obtained.
- A place where noise prevention is taken into consideration.
- Do not install the unit near the door way.
- Ensure the spaces indicated by arrows from the wall, ceiling, or other obstacles.
- The indoor unit must keep the maintenance space.



13.1.2 Outdoor Unit

- If an awning is built over the unit to prevent direct sunlight or rain exposure, be careful that heat radiation from the condenser is not restricted.
- There should not be any animals or plants which could be affected by hot air discharged.
- Ensure the spaces indicated by arrows from the wall, ceiling, fence or other obstacles.

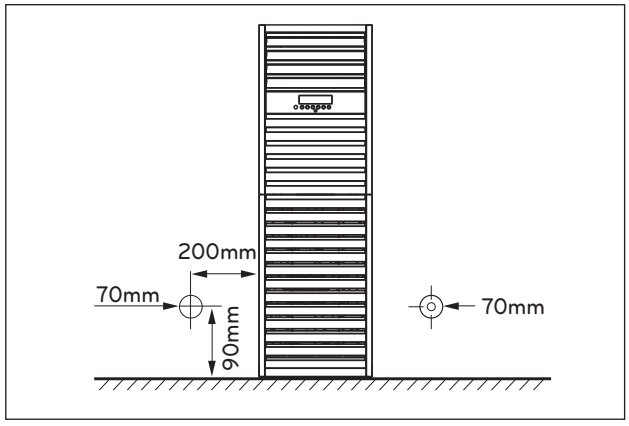
- Place that can sufficiently endure the weight and vibration of the outdoor unit and where even installation is possible.
- Place that has no direct influence of snow or rain
- Place with no danger of snowfall or icicle drop
- Place without weak floor or base such as decrepit part of the building or with a lot of snow accumulation
- Install at a place with fluent water draining to prevent damage from localized heavy rain and avoid frequent flooded area.

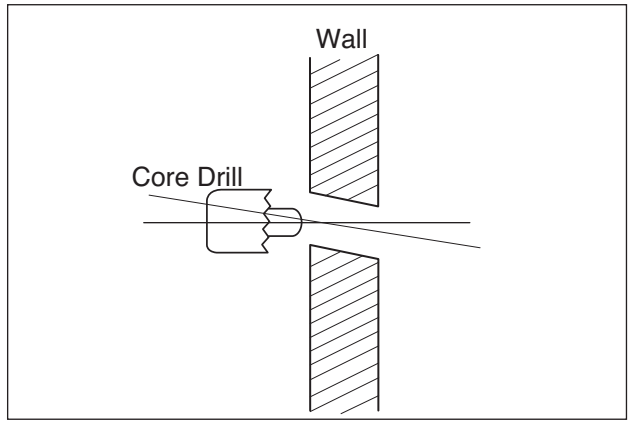


- Ensure that the space around the back is more than 300 mm on the opposite side to the PCB side and secure 600 mm space near the compressor and PCB side of the air conditioner for service.

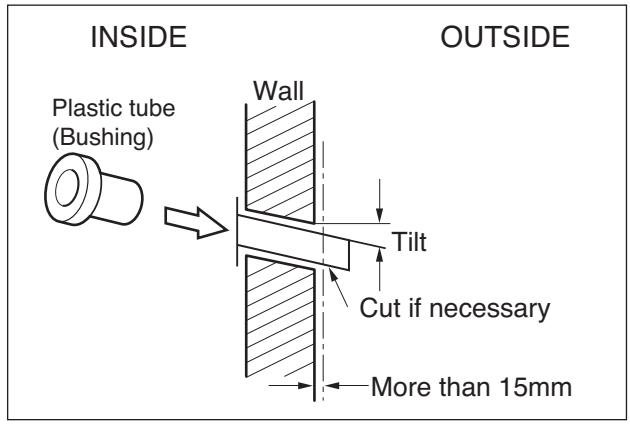
13.2 Installation of Indoor unit and outdoor unit

The Indoor Unit Installation





1. The mounting floor should be strong and solid enough to prevent it from vibration.
2. Drill the piping hole with 70mm diameter hole-core drill at either the right or the left of indoor unit. The hole should be sightly slant to the outdoor side.
3. Insert the plastic tube through the hole.
4. Cut the extruded outside part of the plastic tube, if necessary.



Outdoor unit Installation

1. Install the outdoor unit on the concrete or any solid base securely and horizontally by securing it with bolts (Ø12mm) and nuts.
2. If there is any vibration transmitted to the building, mount the rubber underneath the outdoor unit.

Refrigerant amount

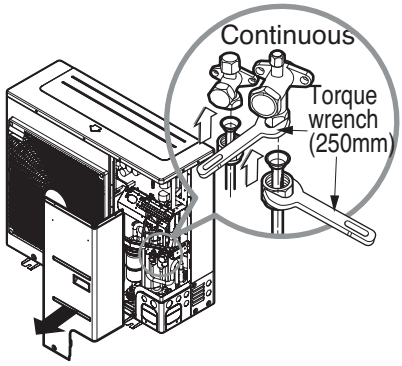
Before shipment, this air conditioner is filled with the rated amount of refrigerant including additional amount required for air-purging, subject to 7.5m piping length.
(The rated amount of refrigerant is indicated on the name plate.) But when the piping length exceeds 7.5 meters, additional charge is required according to the following table. (100kBtu/h standard piping length = 5 m)

Capacity Class	Refrigerant charge
36kBtu/h	30g/m
48kBtu/h	40g/m
60kBtu/h	40g/m
100kBtu/h	61g/m

Example)
36kBtu/h: In case of 20m long pipe(one-way), the amount of refrigerant to be replenished is (20-7.5)*30=375g
100kBtu/h: In case of 20m long pipe(one-way), the amount of refrigerant to be replenished is (20-5)*61= 915g

13.3 Connecting the pipes to the outdoor unit

1. Align the center of the piping and sufficiently tighten the flare nut by hand.



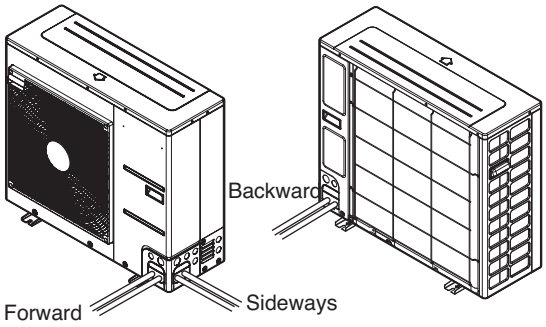
❊ Figures in the manual could be different according to the models.

2. Finally, tighten the flare nut with torque wrench until the wrench clicks.
   - When tightening the flare nut with torque wrench, ensure the direction for tightening follows the arrow on the wrench.

Pipe Size	Torque
1/4"	16±2 N·m
3/8"	38±4 N·m
1/2"	55±6 N·m
5/8"	75±7 N·m
3/4"	110±10 N·m

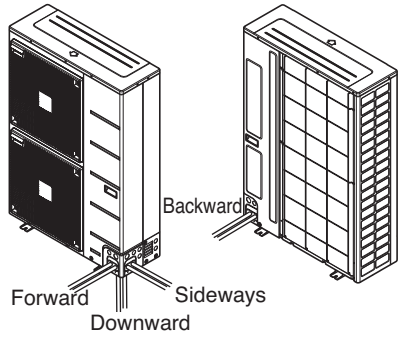
The installation piping is connectable in several directions.(Refer to figure 1 and 2)

<Figure 1>



<AP-Q36GRA0>

<Figure 2>

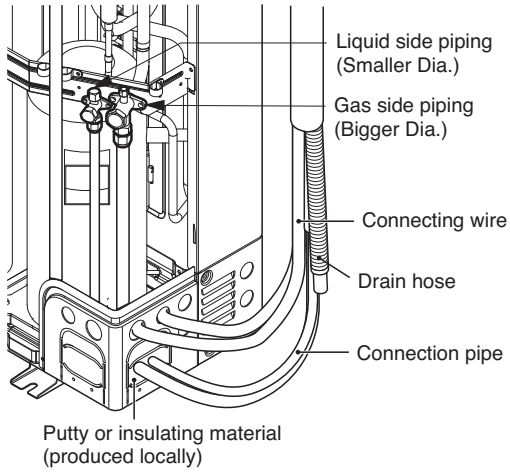


<AP-Q48GTA0, AP-Q60GT3E4, AP-Q100LFA0>

Preventing foreign objects from entering (Refer to figure 3)

1. Plug the pipe through-holes with putty or insulation material(procured locally)to stop up all gaps,as shown in the figure 3.
2. Insects or small animals entering the outdoor unit may cause a short circuit in the electrical box.

<Figure 3>



Forming the piping

Form the piping by wrapping the connecting portion of the indoor unit with insulation material and secure it with two kinds of vinyl tape.

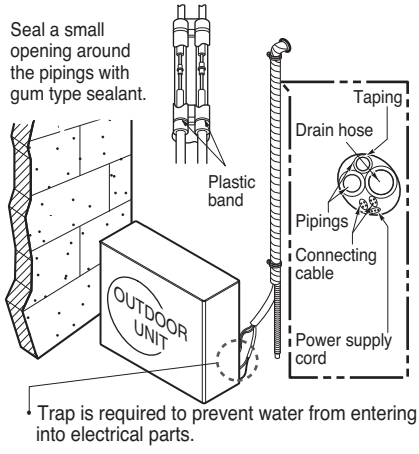
- If you want to connect an additional drain hose, the end of the drain outlet should be routed above the ground. Secure the drain hose appropriat

CAUTION

Insects or small animals entering the outdoor unit may cause a short circuit in the electrical box.

In cases where the outdoor unit is installed below the indoor unit perform the following.

1. Tape the piping, drain hose and connecting cable from down to up.
2. Secure the tapped piping along the exterior wall using saddle or equivalent.



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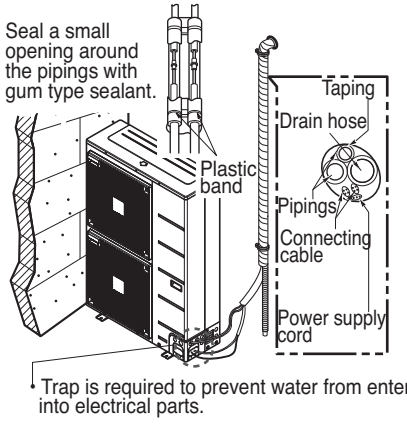


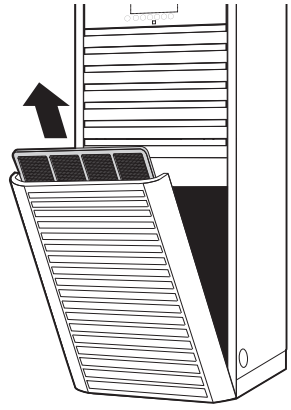
<AP-Q48GTA0, AP-Q60GT3E4, AP-Q100LFA0>

13.4 Wiring Connection

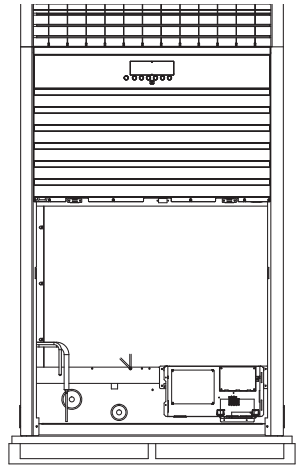
13.4.1 Connecting the Cable to Indoor Unit

- In order to protect cable, it should be inserted “Bushing Rubber”.
- The inside and outside connecting cable can be connected after opening the inlet grille.

1. Open the inlet grille manually.
2. Open the control cover with Driver(⊕).

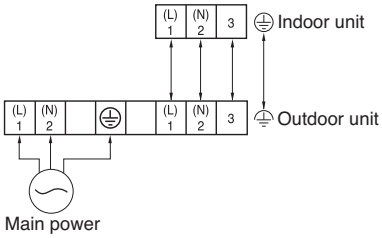


<AP-Q36GRA0, AP-Q48GTA0, AP-Q60GT3E4>



<AP-Q100LFA0>

3. Connect the cables to the connector in the control box.



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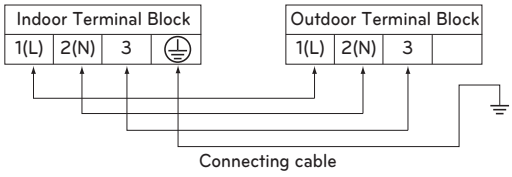


<AP-Q100LFA0>

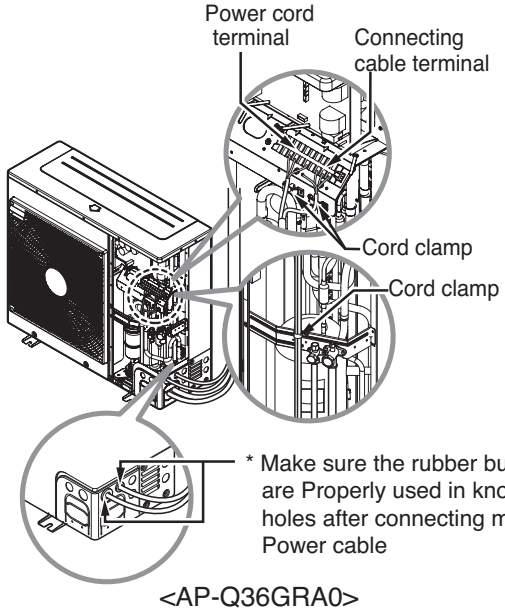
4. Secure the control cover to the original position with the screw.

5. Close the inlet grille.

13.4.2 Connection cable to outdoor unit

1. Connecting the cable

- Open the control board cover from the outdoor unit by removing the screws.
- Connect wires to the terminals on the control board individually and secure the cables onto the control board with clamp
- Secure the control board cover to the original position with the screws.



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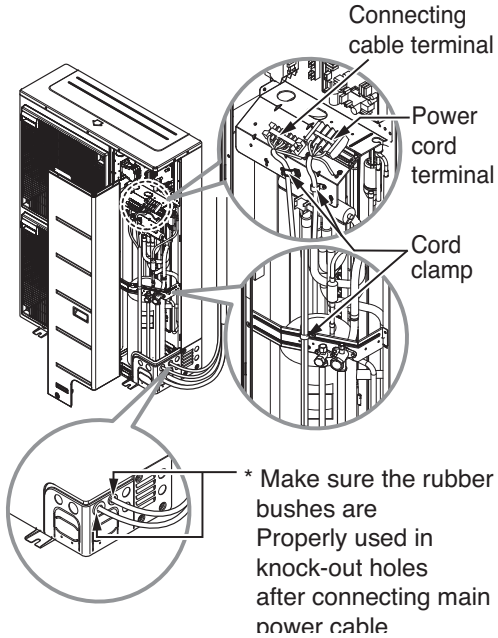
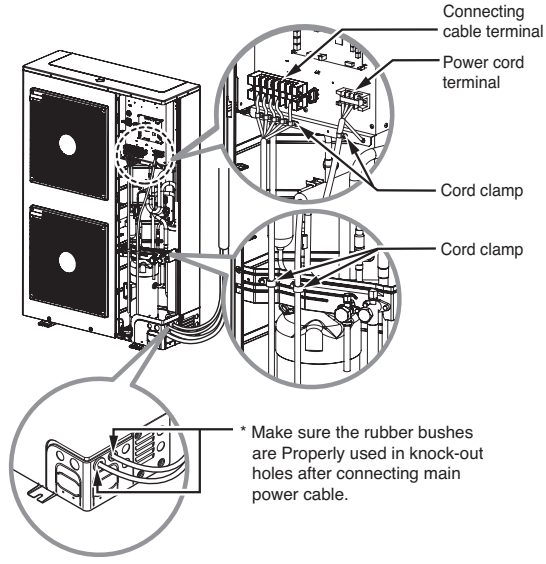


<AP-Q48GTA0, AP-Q60GT3E4>



<AP-Q100LFA0>

CAUTION

- The circuit diagram is not subject to change without notice.
- Be sure to connect wires according to the wiring diagram.
- Connect the wires firmly, so that not to be pulled out easily.
- Connect the wires according to color codes by referring the wiring diagram.

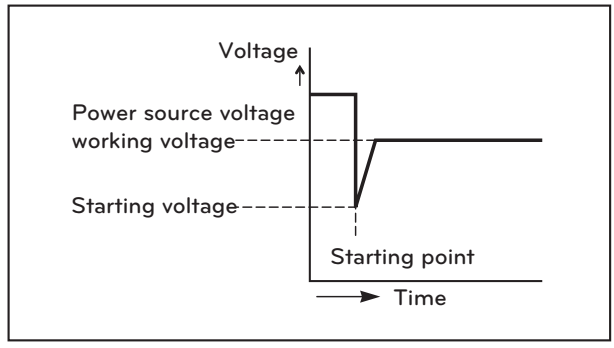
Floor Standing
13. Installation

The unit is completely wired internally at the factory according to general rule of electrical technology, but local rules, if they are required, should be complied with.

2. Power supply

Power source must fulfill the following conditions:

- The working voltage should be higher than 90% and lower than 110% of the rated voltage marked on the name plate.
- The starting voltage should be higher than 85% of the rated voltage marked on the name plate.



3. Wiring

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

• Use the power supply cord(Rubber insulation, type Ho7RNF approved by HAR or SAA) suitable for the product's electrical capacity.

Capacity Class (kBtu/h)	Ø, V	Circuit Breaker
36k	1Ø, 220-240V	30A
48k		40A
60k		40A
100k	3Ø,380-415V	40A

• Provide a recognized circuit breaker as below between power source and unit. A disconnection device to adequately disconnect all supply lines must be fitted. (For service operations)

Capacity Class (kBtu/h)	Ø, V	Main Power Cable	Interconnecting Cable
36k	1Ø, 220-240V	4.0mm² x 3C	1.0mm² x 4C
48k		5.0mm² x 3C	1.0mm² x 4C
60k		6.0mm² x 3C	1.0mm² x 4C
100k	3Ø,380-415V	6.0mm² x 5C	1.5mm² x 4C

• The screws which fasten the wiring in the casing of electrical fittings are liable to come loose from vibrations to which the unit is subjected during the course of transportation. Check them and make sure that they are all tightly fastened.
(If they are loose, it could give rise to burn-out of the wires.)

• See to it that the starting voltage is maintained at more than 90 percent of the rated voltage marked on the name plate.

• The following troubles would be caused by voltage drop-down.
Vibration of a magnetic switch, damage on the contact point there of, fuse breaking, disturbance to the normal function of a overload protection device.

13.5 Installation guide at the seaside

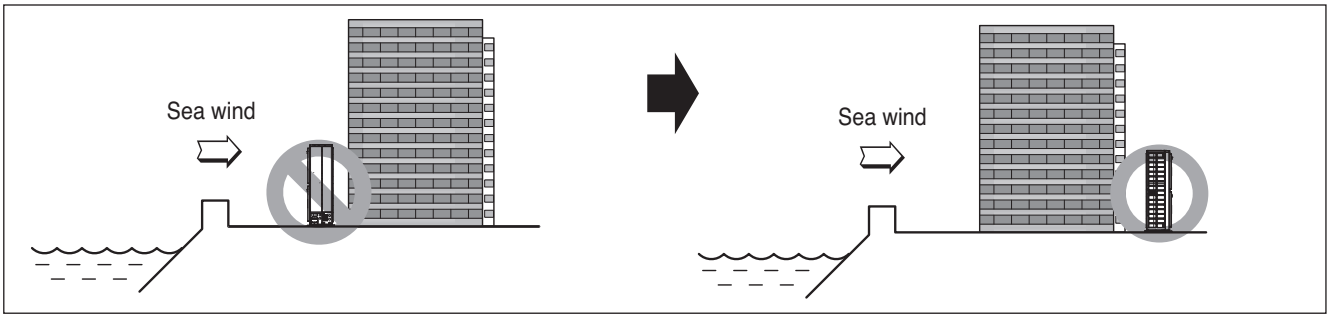
⚠CAUTION

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. Do not install the product where it will be exposed to sea wind (salt spray) directly. It may cause corrosion on the product. Corrosion, particularly on the condenser and evaporator fins, could cause product malfunction or inefficient operation.
3. If outdoor unit is installed close to the sea shore, it should avoid direct exposure to the sea breeze and be treated with 'Rust Resisting Gold Paint'.

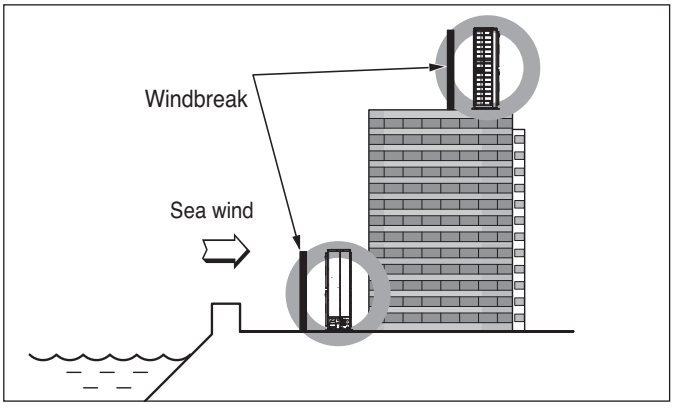
❉ For more information, refer to 'Outdoor Unit Installation Guide at the Seaside'.

13.5.1 Selecting the location(Outdoor Unit)

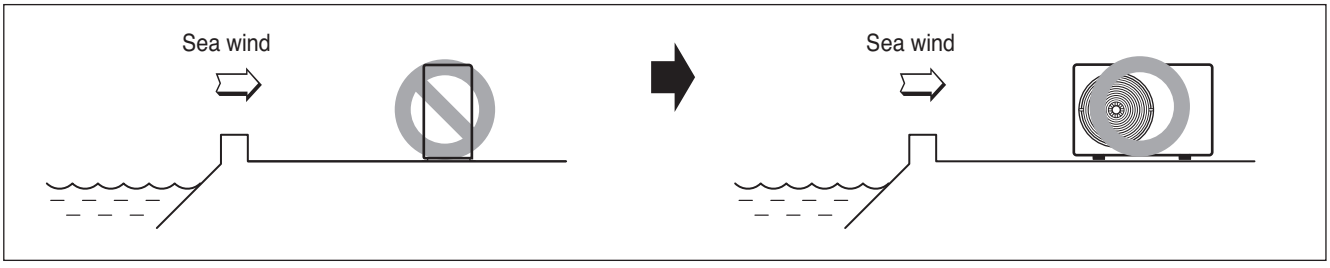
1) If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. Install the outdoor unit on the apposite side of wind blowing.



2) Even if it is unavoidable to install the outdoor unit on the seaside, set up a windbreak not to get it exposed to the sea breeze.

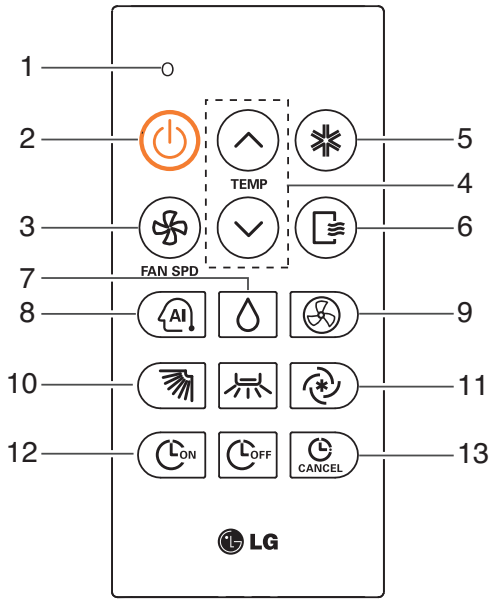


3) Parallel with the sea wind direction is more corrosive condition. Right angle with the sea wind is recommended to reduce damage from salty breeze.



4) Select a well-drained spot.
5) When installing the outdoor unit on the seashore or in such an ambient condition, contact your LG dealer.

Floor Standing
14. Function of Remote Control



No.	Control panel	Description
1	O	**Remote control operation lamp**
2		**Power ON/OFF button :** Operation will start when this button is pressed, and stop when the button is pressed again.
3	FAN SPD	**Indoor fan speed button** : To select the desired fan speed.
4		**Temperature setting button**
5		**Cooling button**
6		**Auto cleaning button**
7		**Dehumidification button :** Can effectively remove humidity when at the time of rainy season or high humidity.
8	AI	**Auto operation button :** In operation this function, air conditioner control the setting temperature by comparing room temperature and hot or cool level customer set
9		**Fan mode button**
10		**Air flow direction button(Up/down, Left/right) :** Adjust air flow direction vertically or horizontally.
11		**Power cooling mode button :** Powerful cooling is performed
12	ON OFF	**ON/OFF timer setting button :** Set the time of starting or stopping
13	CANCEL	**Timer cancel button**

Wireless Remote Control Puts all functions at your fingertips

Handling the remote control

- Aim at the signal receptor on the floor standing type air conditioner when operating.
- The remote control signal can be received at a distance of up to about 7meters.
- Be sure that there are no obstructions between the remote control and the signal receptor.
- Do not drop or throw the remote control.
- Do not place the remote control in a location exposed to direct sunlight, or next to a heating unit, or other heat source.

LG
Life's Good

P/No.: MFL60778813

LG Electronics

Air Solution
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Yeongdeungpo-gu, Seoul, Korea
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http://partner.lge.com

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