

PUHY-P200·250·300·350YGM-A (-BS)
PUY-P250·350YGM-A (-BS)
CONTENTS

Y-8-14(R410A)

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1. Specifications

Y-8~14(R410A)

Model name		PUHY-P200YGM-A (-BS)		
		Cooling	Heating	
Capacity	*1 †	kW	22.4	25.0
	*1 †	BTU/h	76,400	85,300
	*1 ††	kcal/h	20,000	-
Power source		3N ~ 380/400/415V 50/60Hz		
Power input	kW	6.14	5.98	
Current	A	10.3 / 9.8 / 9.4	10.0 / 9.5 / 9.2	
Fan	Type x Quantity	Propeller fan x 1		
	Airflow rate	m ³ /min	200	
	Motor output	kW	0.38	
Compressor	Type	Hermetic		
	Motor output	kW	4.7	
	Crankcase heater	kW	0.045 x 1	
Heat exchanger		Salt resistant fin		
Refrigerant / Lubricant		R410A / MEL56		
External finish		Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSEL 5Y 8/1 or similar>		
External dimension H x W x D		mm 1,840 x 990 x 840		
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		φ9.52 Flare	
	Low press. pipe		φ19.05 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~13	
Noise level	*2	dB<A>	56 / 56	
Net weight		kg 218		
Operating temperature range		Cooling	Heating	
		Indoor : 15°CWB ~ 24°CWB Outdoor: -5°CDB ~ 43°CDB (0°CDB ~ 43°CDB, when the outdoor unit is at a lower position)	Indoor : 15°CDB ~ 27°CDB Outdoor: -20°CWB ~ 15.5°CWB	
<p>Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition. † <Cooling> Indoor : 27°CDB / 19°CWB Outdoor : 35°CDB †† <Cooling> Indoor : 27°CDB / 19.5°CWB Outdoor : 35°CDB <Heating> Indoor : 20°CDB Outdoor : 7°CDB / 6°CWB Pipe length : 5m Height difference : 0m Pipe length : 7.5m Height difference : 0m</p> <p>*2. It is measured in anechoic room.</p> <p>** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</p>				

Ref.: M-WYNCO-6927&6940

Model name		PUHY-P250YGM-A (-BS)			
		Cooling	Heating		
Capacity	*1 †	kW	28.0	31.5	
	*1 †	BTU/h	95,500	107,500	
	*1 ††	kcal/h	25,000	-	
Power source		3N ~ 380/400/415V 50/60Hz			
Power input		kW	7.72	7.62	
Current		A	13.0 / 12.3 / 11.9	12.8 / 12.2 / 11.7	
Fan	Type x Quantity		Propeller fan x 1		
	Airflow rate		m ³ /min		200
	Motor output		kW		0.38
Compressor	Type		Hermetic		
	Motor output		kW		6.7
	Crankcase heater		kW		0.045 x 1
Heat exchanger		Salt resistant fin			
Refrigerant / Lubricant		R410A / MEL32			
External finish		Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>			
External dimension H x W x D		mm		1,840 x 990 x 840	
Protection devices	High pressure protection		4.15MPa		
	Compressor		Over current protection / Over heat protection		
	Fan		Thermal switch		
	Inverter		Over current protection / Thermal protection		
Refrigerant piping diameter	High press. pipe		φ9.52 Flare (φ12.7 for over 90m)		
	Low press. pipe		φ22.2 Brazed		
Indoor unit	Total capacity		50~130% of outdoor unit capacity		
	Model / Quantity		Model P20~P250 / 1~16		
Noise level	*2	dB<A>	57 / 57		
Net weight		kg	233		
Operating temperature range		Cooling		Heating	
		Indoor : 15°CWB ~ 24°CWB Outdoor: -5°CDB ~ 43°CDB (0°CDB ~ 43°CDB, when the outdoor unit is at a lower position)		Indoor : 15°CDB ~ 27°CDB Outdoor: -20°CWB ~ 15.5°CWB	
<p>Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition. † <Cooling> Indoor : 27°CDB / 19°CWB Outdoor : 35°CDB †† <Cooling> Indoor : 27°CDB / 19.5°CWB Outdoor : 35°CDB <Heating> Indoor : 20°CDB Outdoor : 7°CDB / 6°CWB Pipe length : 5m Height difference : 0m Pipe length : 7.5m Height difference : 0m</p> <p>*2. It is measured in anechoic room.</p> <p>** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</p>					

Model name		PUHY-P300YGM-A (-BS)		
		Cooling	Heating	
Capacity	*1 †	kW	33.5	37.5
	*1 †	BTU/h	114,300	127,900
	*1 ††	kcal/h	30,000	-
Power source		3N ~ 380/400/415V 50/60Hz		
Power input	kW	9.57	9.10	
Current	A	16.1 / 15.3 / 14.7	15.3 / 14.5 / 14.0	
Fan	Type x Quantity	Propeller fan x 1		
	Airflow rate	m ³ /min	200	
	Motor output	kW	0.38	
Compressor	Type	Hermetic		
	Motor output	kW	8.0	
	Crankcase heater	kW	0.045 x 1	
Heat exchanger		Salt resistant fin		
Refrigerant / Lubricant		R410A / MEL32		
External finish		Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSEL 5Y 8/1 or similar>		
External dimension H x W x D		mm 1,840 x 990 x 840		
Protection devices	High pressure protection	4.15MPa		
	Compressor	Over current protection / Over heat protection		
	Fan	Thermal switch		
	Inverter	Over current protection / Thermal protection		
Refrigerant piping diameter	High press. pipe	φ9.52 Flare (φ12.7 for over 40m)		
	Low press. pipe	φ22.2 Brazed		
Indoor unit	Total capacity	50~130% of outdoor unit capacity		
	Model / Quantity	Model P20~P250 / 1~19		
Noise level	*2	dB<A> 59 / 59		
Net weight	kg	233		
Operating temperature range		Cooling	Heating	
		Indoor : 15°CWB ~ 24°CWB Outdoor: -5°CDB ~ 43°CDB (0°CDB ~ 43°CDB, when the outdoor unit is at a lower position)	Indoor : 15°CDB ~ 27°CDB Outdoor: -20°CWB ~ 15.5°CWB	
<p>Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition. † <Cooling> Indoor : 27°CDB / 19°CWB Outdoor : 35°CDB †† <Cooling> Indoor : 27°CDB / 19.5°CWB Outdoor : 35°CDB <Heating> Indoor : 20°CDB Outdoor : 7°CDB / 6°CWB Pipe length : 5m Height difference : 0m Pipe length : 7.5m Height difference : 0m</p> <p>*2. It is measured in anechoic room.</p> <p>** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</p>				

Model name		PUHY-P350YGM-A (-BS)		
		Cooling	Heating	
Capacity	*1 †	kW	40.0	45.0
	*1 †	BTU/h	136,500	153,500
	*1 ††	kcal/h	35,000	-
Power source		3N ~ 380/400/415V 50/60Hz		
Power input		kW	11.39	11.02
Current		A	19.2 / 18.2 / 17.6	18.6 / 17.6 / 17.0
Fan	Type x Quantity		Propeller fan x 1	
	Airflow rate	m ³ /min	200	
	Motor output	kW	0.38	
Compressor	Type		Hermetic	
	Motor output	kW	9.6	
	Crankcase heater	kW	0.045 x 1	
Heat exchanger		Salt resistant fin		
Refrigerant / Lubricant		R410A / MEL32		
External finish		Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSEL 5Y 8/1 or similar>		
External dimension H x W x D		mm	1,840 x 990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		φ12.7 Flare	
	Low press. pipe		φ28.58 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~20	
Noise level	*2	dB<A>	60 / 60	
Net weight		kg	233	
Operating temperature range		Cooling		Heating
		Indoor : 15°CWB ~ 24°CWB Outdoor: -5°CDB ~ 43°CDB (0°CDB ~ 43°CDB, when the outdoor unit is at a lower position)		Indoor : 15°CDB ~ 27°CDB Outdoor: -20°CWB ~ 15.5°CWB
<p>Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition. † <Cooling> Indoor : 27°CDB / 19°CWB Outdoor : 35°CDB †† <Cooling> Indoor : 27°CDB / 19.5°CWB Outdoor : 35°CDB <Heating> Indoor : 20°CDB Outdoor : 7°CDB / 6°CWB Pipe length : 5m Height difference : 0m Pipe length : 7.5m Height difference : 0m</p> <p>*2. It is measured in anechoic room.</p> <p>** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</p>				

Model name		PUY-P250YGM-A (-BS)	
		Cooling	
Capacity	*1 †	kW	28.0
	*1 †	BTU/h	95,500
	*1 ††	kcal/h	25,000
Power source		3N ~ 380/400/415V 50/60Hz	
Power input		kW	7.72
Current		A	13.0 / 12.3 / 11.9
Fan	Type x Quantity		Propeller fan x 1
	Airflow rate	m ³ /min	200
	Motor output	kW	0.38
Compressor	Type		Hermetic
	Motor output	kW	6.7
	Crankcase heater	kW	0.045 x 1
Heat exchanger		Salt resistant fin	
Refrigerant / Lubricant		R410A / MEL32	
External finish		Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 990 x 840
Protection devices	High pressure protection		4.15MPa
	Compressor		Over current protection / Over heat protection
	Fan		Thermal switch
	Inverter		Over current protection / Thermal protection
Refrigerant piping diameter	High press. pipe		φ 9.52 Flare (φ 12.7 for over 90m)
	Low press. pipe		φ 22.2 Brazed
Indoor unit	Total capacity		50~130% of outdoor unit capacity
	Model / Quantity		Model P20~P250 / 1~16
Noise level	*2	dB<A>	57 / 57
Net weight		kg	233
Operating temperature range		Cooling	
		Indoor : 15°CWB ~ 24°CWB Outdoor: -5°CDB ~ 43°CDB (0°CDB ~ 43°CDB, when the outdoor unit is at a lower position)	
<p>Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition. † <Cooling> Indoor : 27°CDB / 19°CWB Outdoor : 35°CDB †† <Cooling> Indoor : 27°CDB / 19.5°CWB Outdoor : 35°CDB Pipe length : 7.5m Height difference : 0m Pipe length : 5m Height difference : 0m</p> <p>*2. It is measured in anechoic room.</p> <p>** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</p>			

Model name		PUY-P350YGM-A (-BS)	
		Cooling	
Capacity	*1 †	kW	40.0
	*1 †	BTU/h	136,500
	*1 ††	kcal/h	35,000
Power source		3N ~ 380/400/415V 50/60Hz	
Power input		kW	11.39
Current		A	19.2 / 18.2 / 17.6
Fan	Type x Quantity		Propeller fan x 1
	Airflow rate	m ³ /min	200
	Motor output	kW	0.38
Compressor	Type		Hermetic
	Motor output	kW	9.6
	Crankcase heater	kW	0.045 x 1
Heat exchanger		Salt resistant fin	
Refrigerant / Lubricant		R410A / MEL32	
External finish		Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSEL 5Y 8/1 or similar>	
External dimension H x W x D		mm	1,840 x 990 x 840
Protection devices	High pressure protection		4.15MPa
	Compressor		Over current protection / Over heat protection
	Fan		Thermal switch
	Inverter		Over current protection / Thermal protection
Refrigerant piping diameter	High press. pipe		∅ 12.7 Flare
	Low press. pipe		∅ 28.58 Brazed
Indoor unit	Total capacity		50~130% of outdoor unit capacity
	Model / Quantity		Model P20~P250 / 1~20
Noise level	*2	dB<A>	60 / 60
Net weight		kg	233
Operating temperature range		Cooling	
		Indoor : 15°CWB ~ 24°CWB Outdoor: -5°CDB ~ 43°CDB (0°CDB ~ 43°CDB, when the outdoor unit is at a lower position)	

Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition.
† <Cooling> Indoor : 27°CDB / 19°CWB Outdoor : 35°CDB †† <Cooling> Indoor : 27°CDB / 19.5°CWB Outdoor : 35°CDB
Pipe length : 7.5m Height difference : 0m Pipe length : 5m Height difference : 0m
*2. It is measured in anechoic room.

** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.

2. Capacity Table

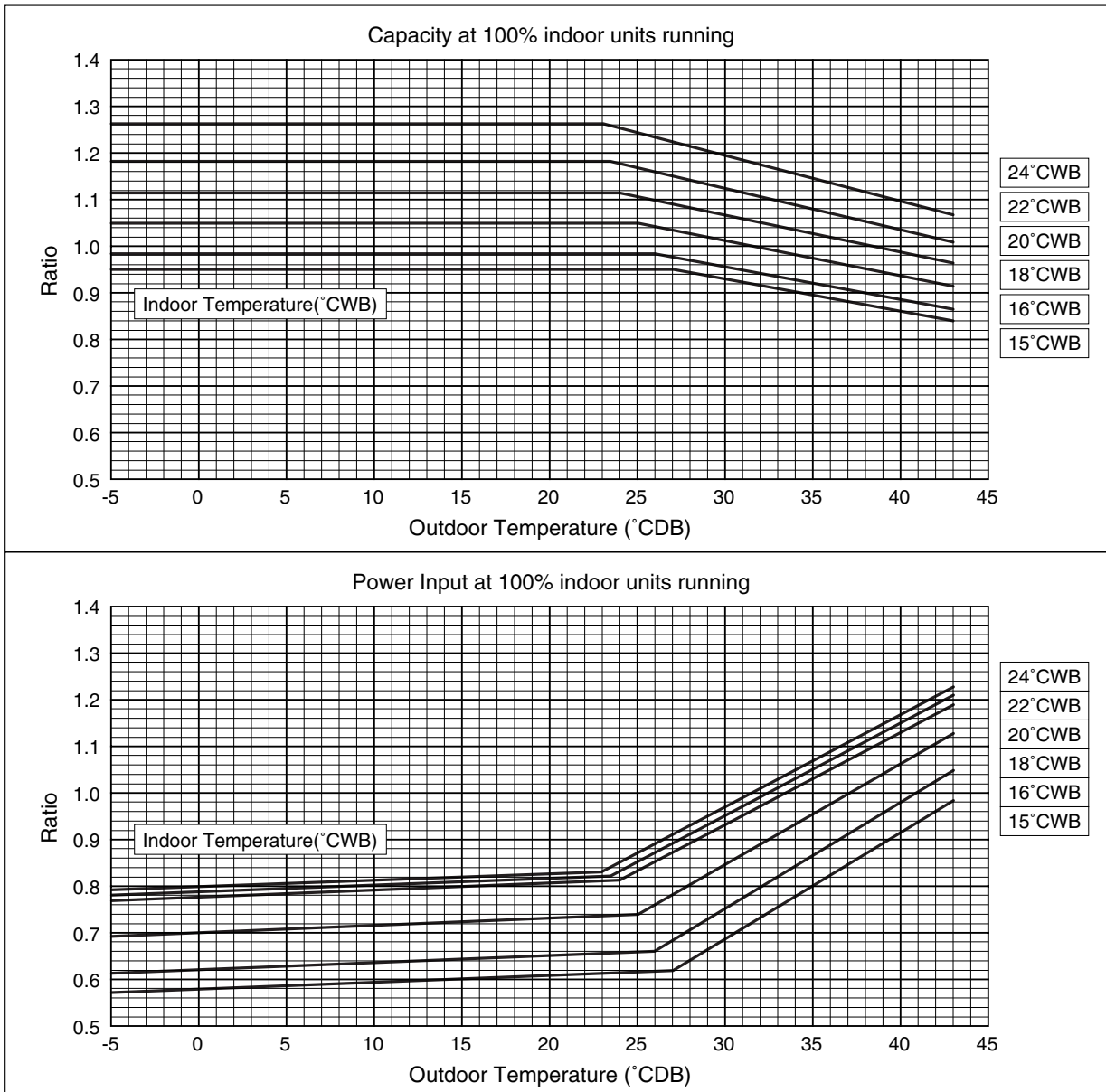
2-1. Correction by temperature

Cooling

- Standard Specifications

		PUHY-P200YGM	PU(H)Y-P250YGM
Capacity	kW	22.4	28.0
Input	kW	6.14	7.72

Y-8-14(R410A)



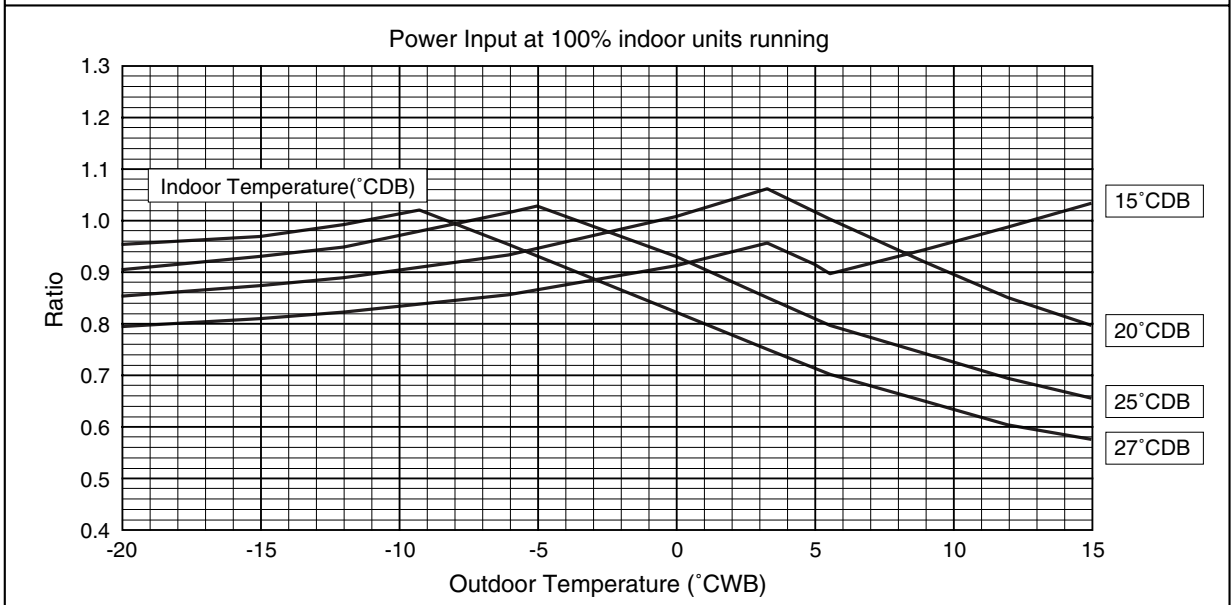
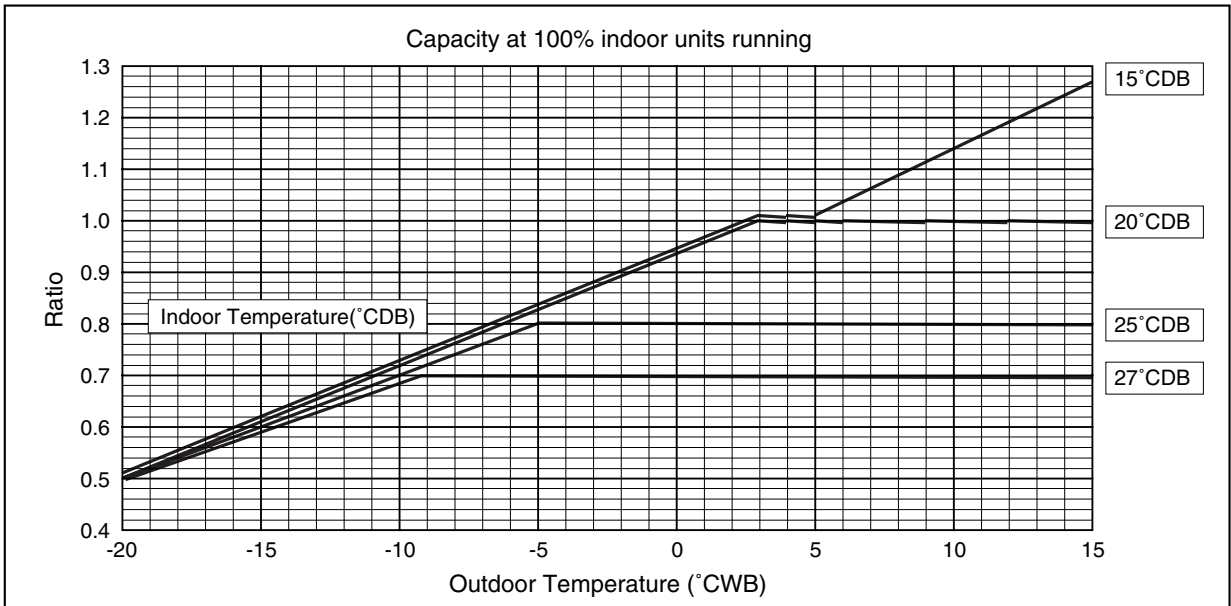
Ref: cap&inpc-p200-250

Heating

- Standard Specifications

		PUHY-P200YGM	PUHY-P250YGM
Capacity	kW	25.0	31.5
Input	kW	5.98	7.62

Y-8-14(R410A)

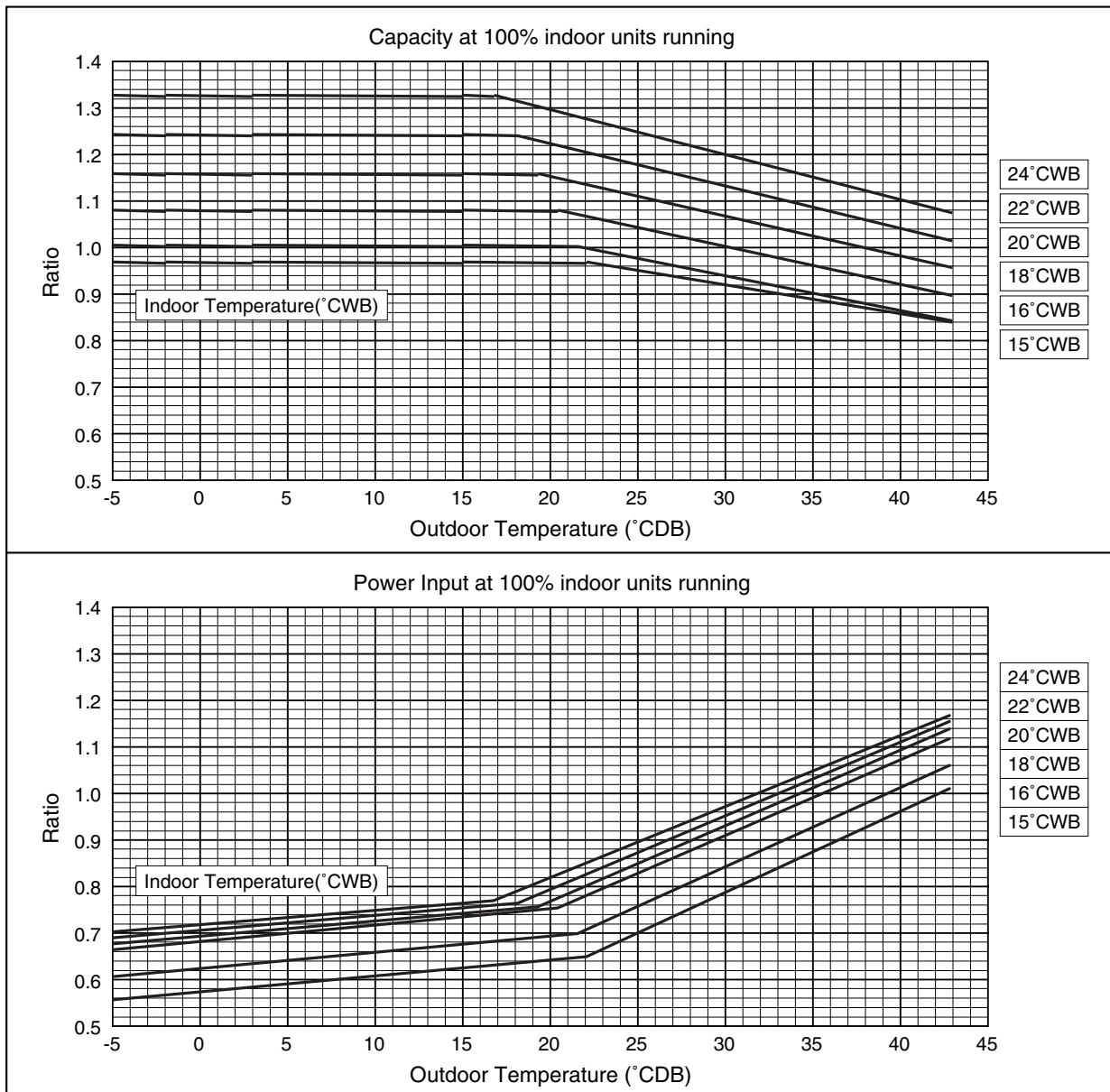


Ref: cap&inph-p200-250

Cooling

- Standard Specifications

		PUHY-P300YGM	PU(H)Y-P350YGM
Capacity	kW	33.5	40.0
Input	kW	9.57	11.39



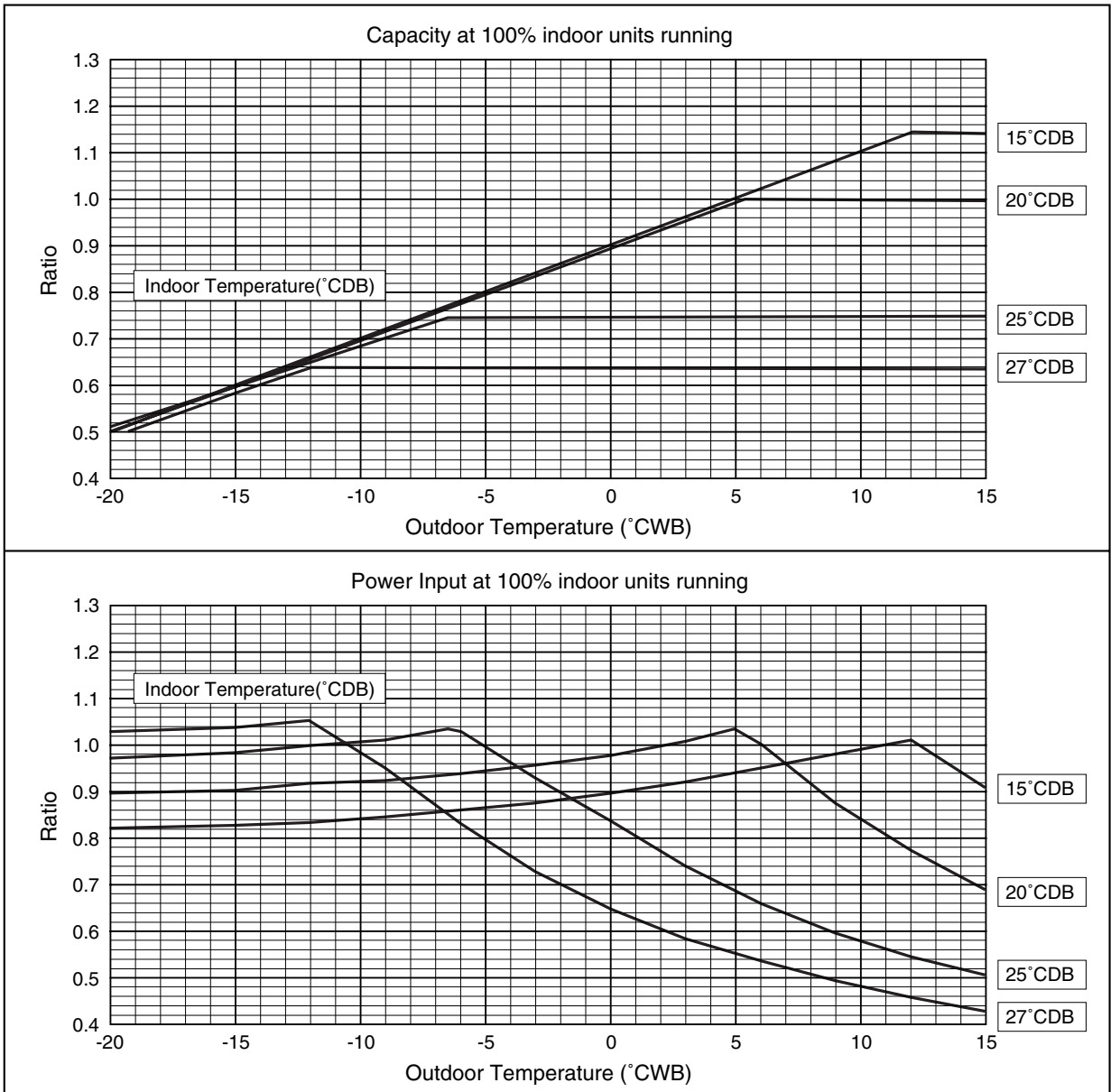
Ref: cap&inpc-p300-400

Heating

- Standard Specifications

		PUHY-P300YGM	PUHY-P350YGM
Capacity	kW	37.5	45.0
Input	kW	9.10	11.02

Y-8-14(R410A)

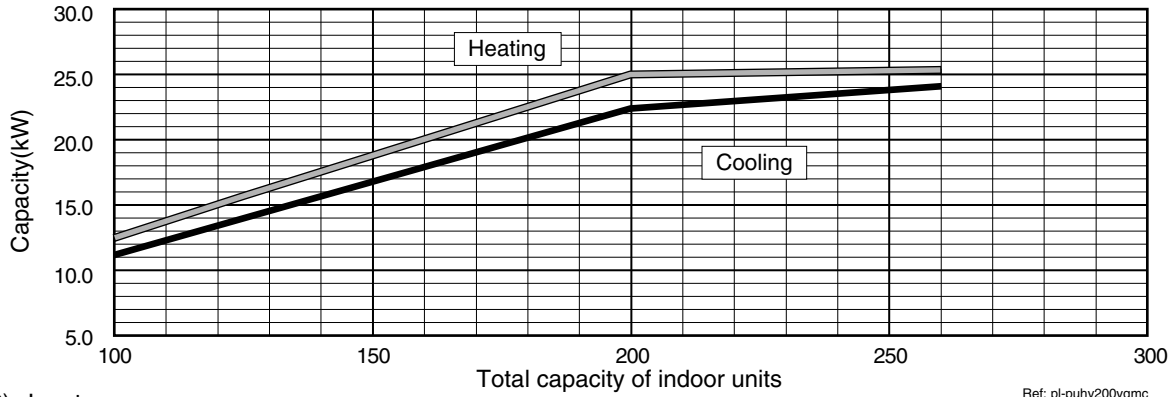


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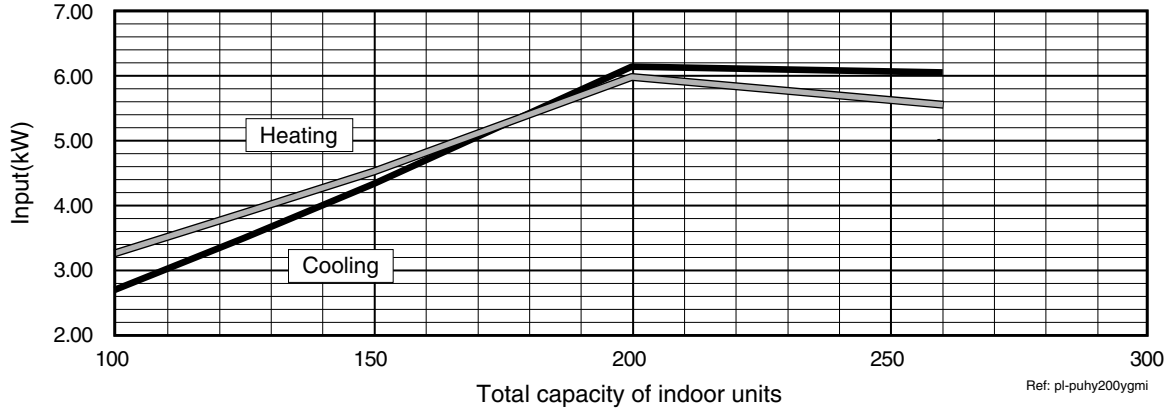
2-2. Correction by total indoor

PUHY-P200YGM

1) Capacity



2) Input

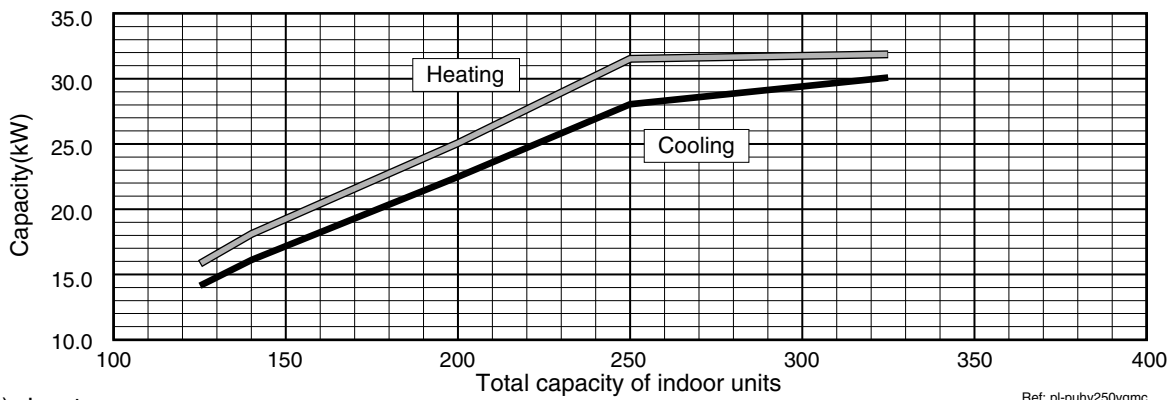


Ref: pl-puhy200ygm

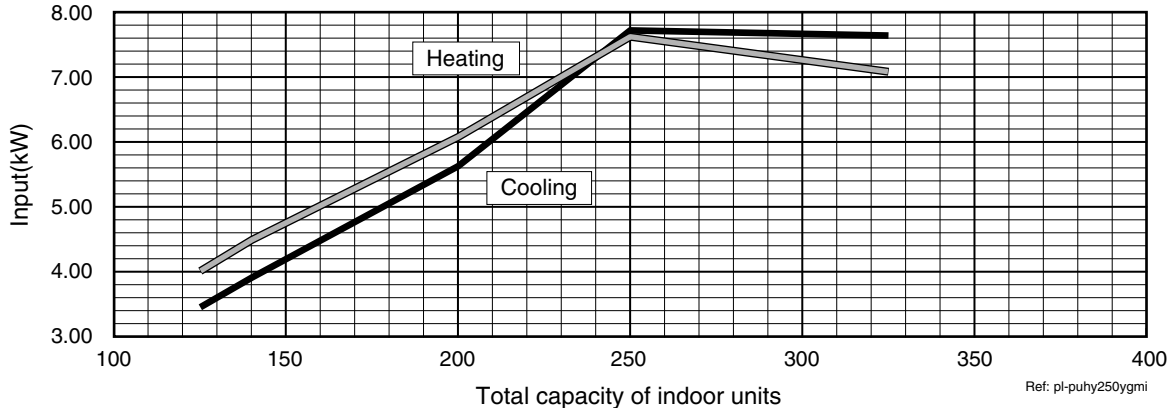
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PU(H)Y-P250YGM

1) Capacity



2) Input

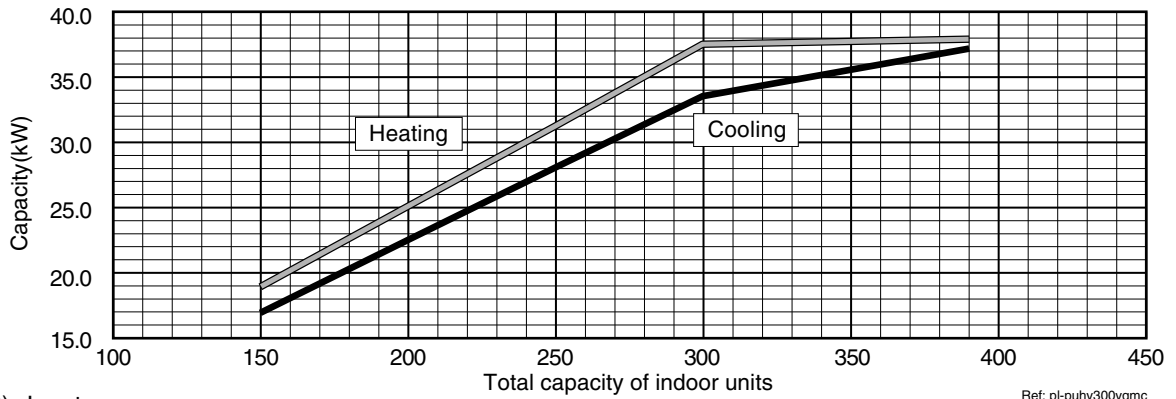


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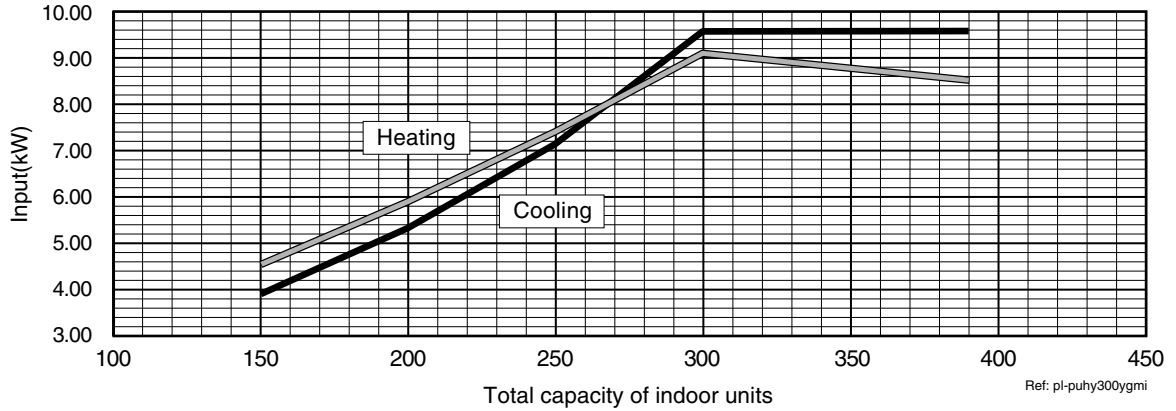
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PUHY-P300YGM

1) Capacity

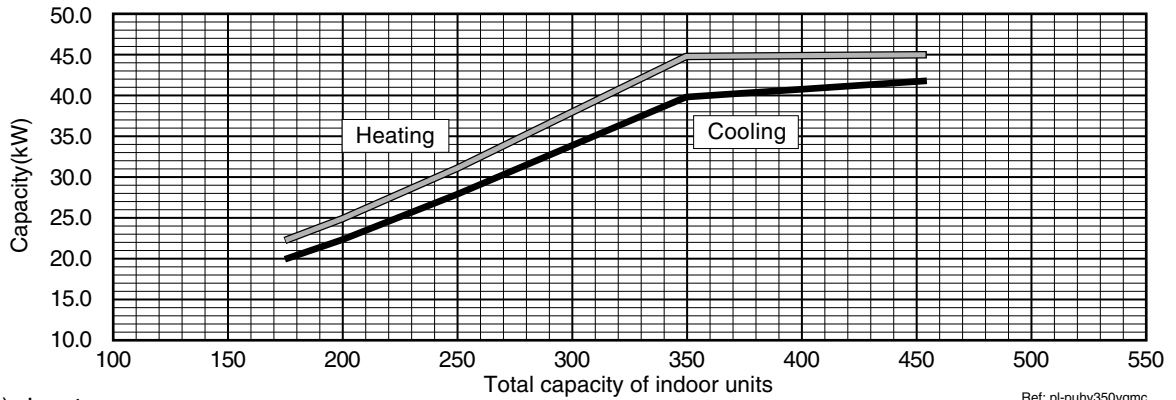


2) Input

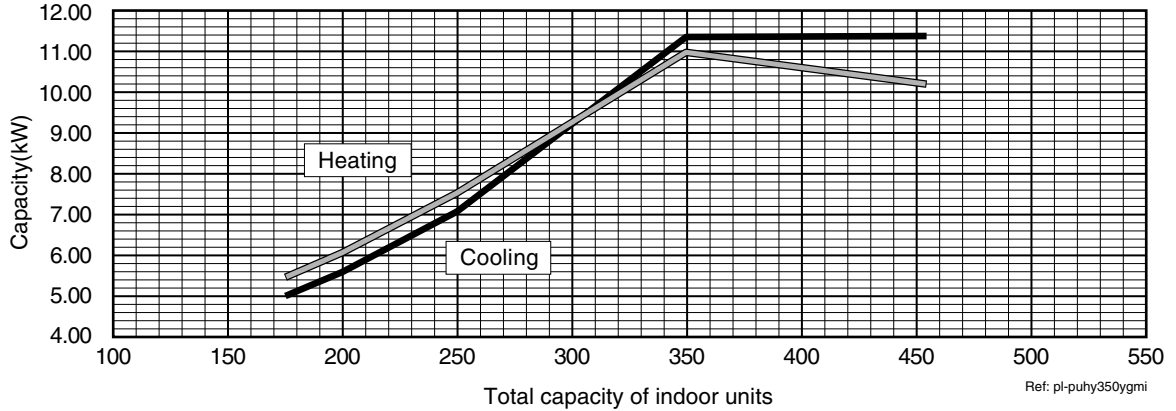


PU(H)Y-P350YGM

1) Capacity



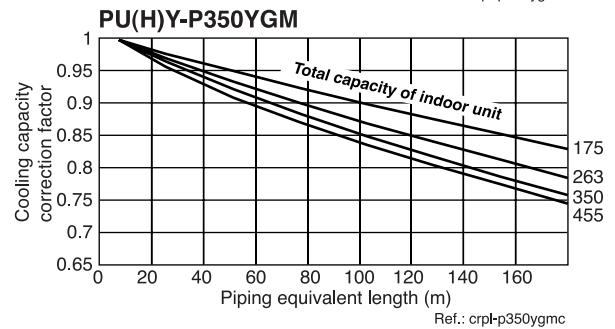
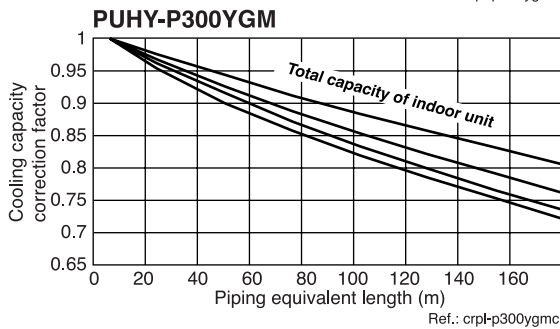
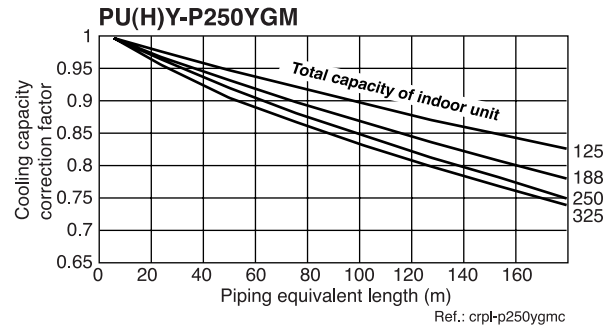
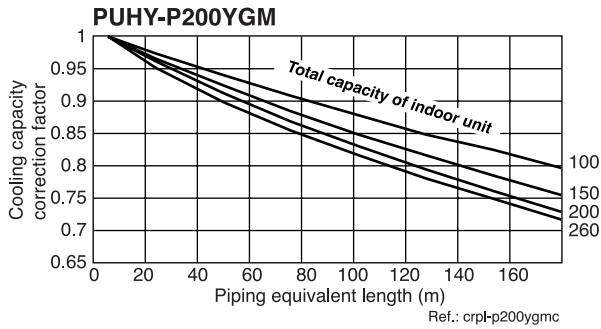
2) Input



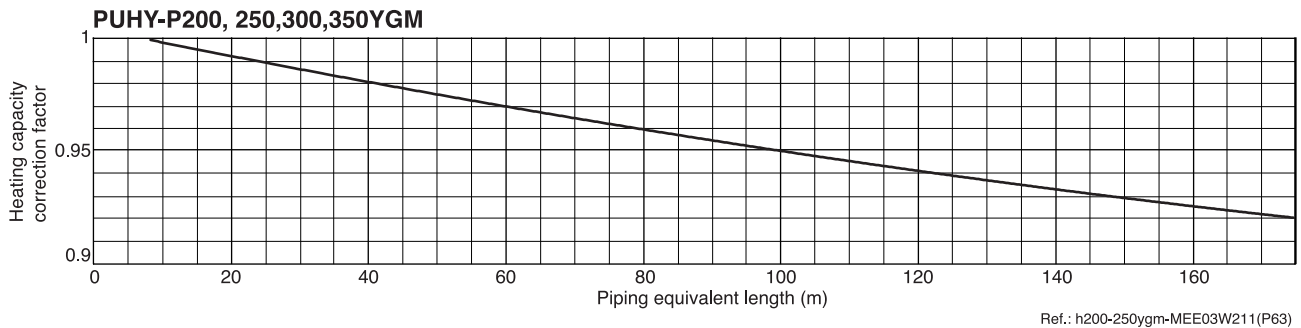
2-3. Correction by refrigerant piping length

Due to the extension of refrigerant piping, a decrease of cooling/heating capacity happens. The actual capacity is considered by multiplying the correction factor according to the equivalent length of the refrigerant piping shown at the table below.

• Cooling capacity correction



• Heating capacity correction



• How to obtain piping equivalent length

- 1 **PUHY, PURY-P200YGM**
 Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bent on the piping) m
- 2 **PU(H)Y, PURY-P250,300YGM**
 Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bent on the piping) m
- 3 **PU(H)Y, PURY-P350YGM**
 Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m
- 4 **PUHY, PURY-P400,500,650YGM**
 Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m

2-4. Correction at frosting and defrosting

Due to frosting at the outdoor heat exchanger and the automatic defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

Table of correction factor

PU(H)Y-P200, 250YGM

Outdoor inlet air temp (BCWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95

PUHY-P300YGM

Ref.: def-ygmp200-250

Outdoor inlet air temp (BCWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95

PU(H)Y-P350YGM

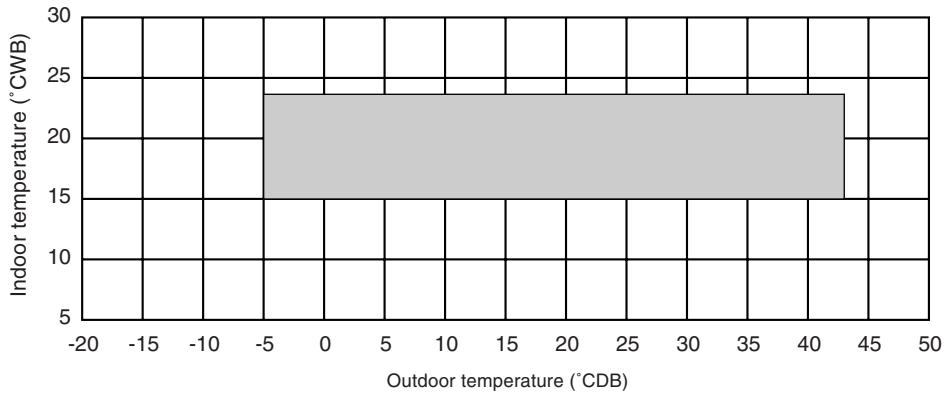
Ref.: def-ygmp300

Outdoor inlet air temp (BCWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.93	0.85	0.83	0.84	0.86	0.90	0.90	0.95	0.95	0.95

Ref.: def-ygmp350

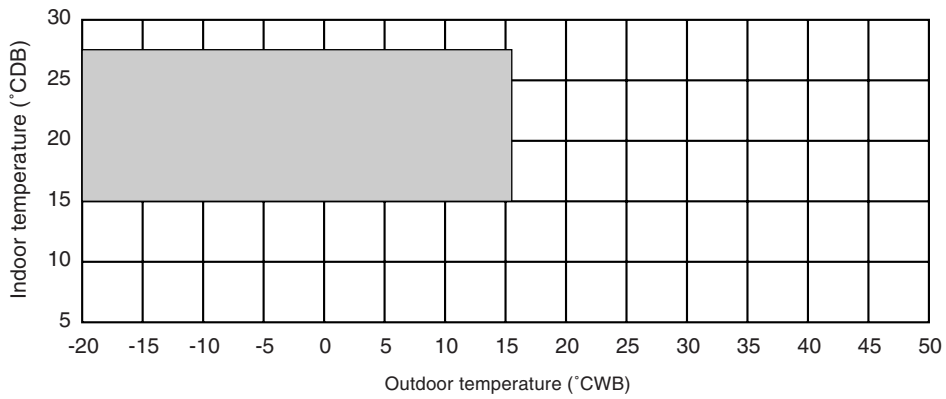
2-5. Operation limit

• Cooling

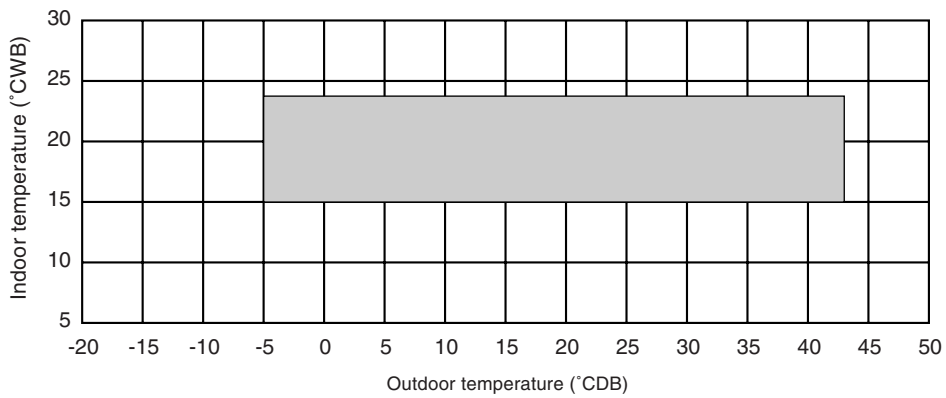


* The operation temperature of outdoor unit is limited into 0~43°CDB when the outdoor unit is at a position lower than the indoor units.

• Heating



• Cooling



Ref.: ol-ygmc

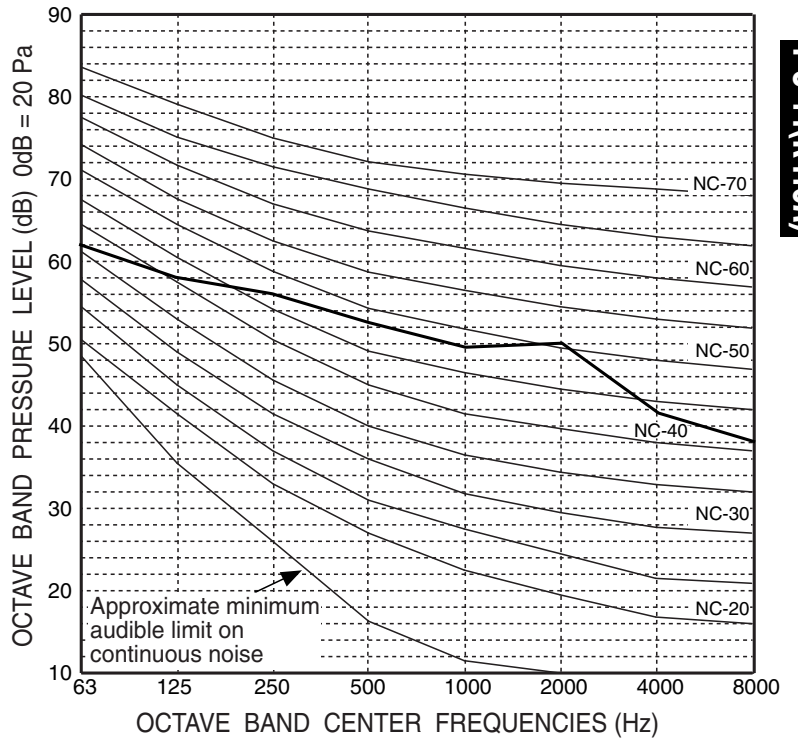
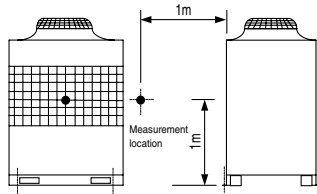
* The operation temperature of outdoor unit is limited into 0~43°CDB when the outdoor unit is at a position lower than the indoor units.

3. Sound Levels

PUHY-P200YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
62	58	56	52.5	49.5	50	41.5	38	56

Measurement condition

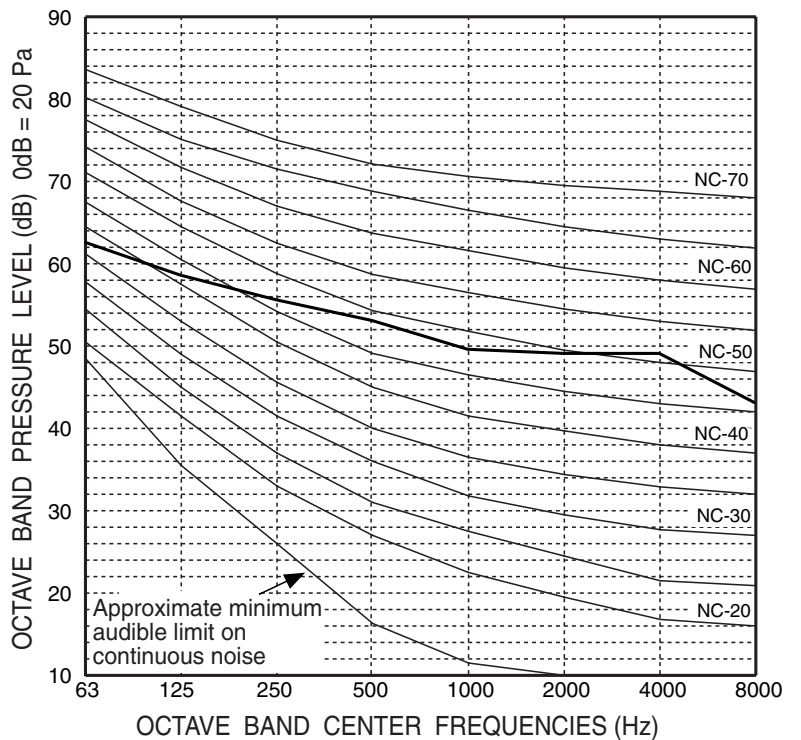
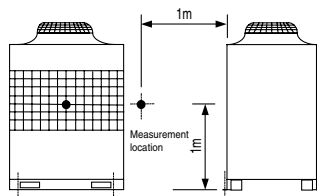


Y-8-14(R410A)

PU(H)Y-P250YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
62.5	58.5	55.5	53	49.5	49	49	43	57

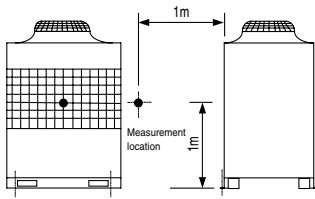
Measurement condition



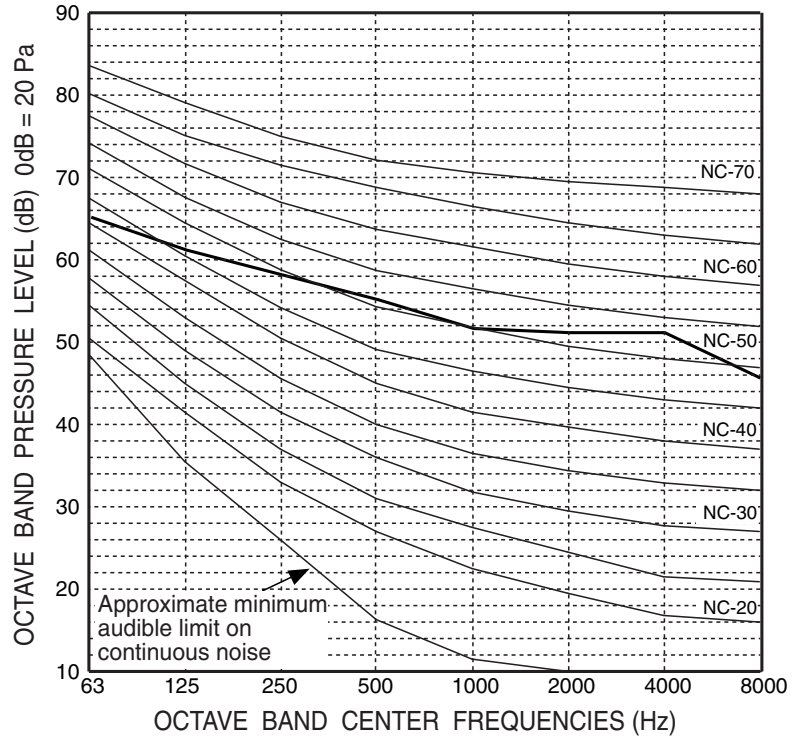
PUHY-P300YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
65	61	58	55	51.5	51	51	45.5	59

Measurement condition



Y-8-14(R410A)

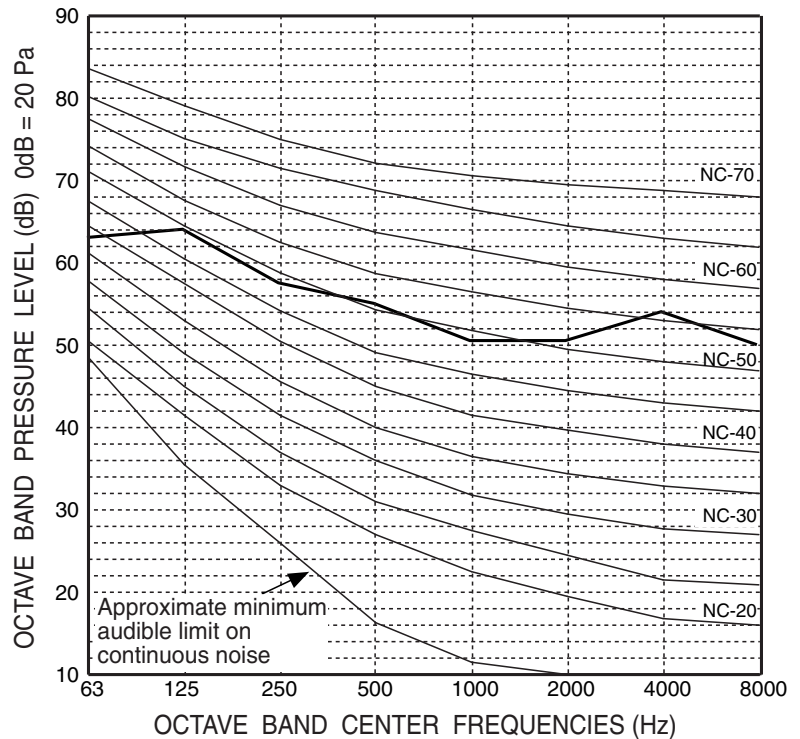
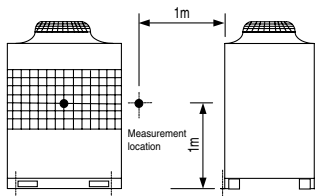


Ref.: h300ygm-WYNB0-3272

PU(H)Y-P350YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
63	64	57.5	55	50.5	50.5	54	50	60

Measurement condition

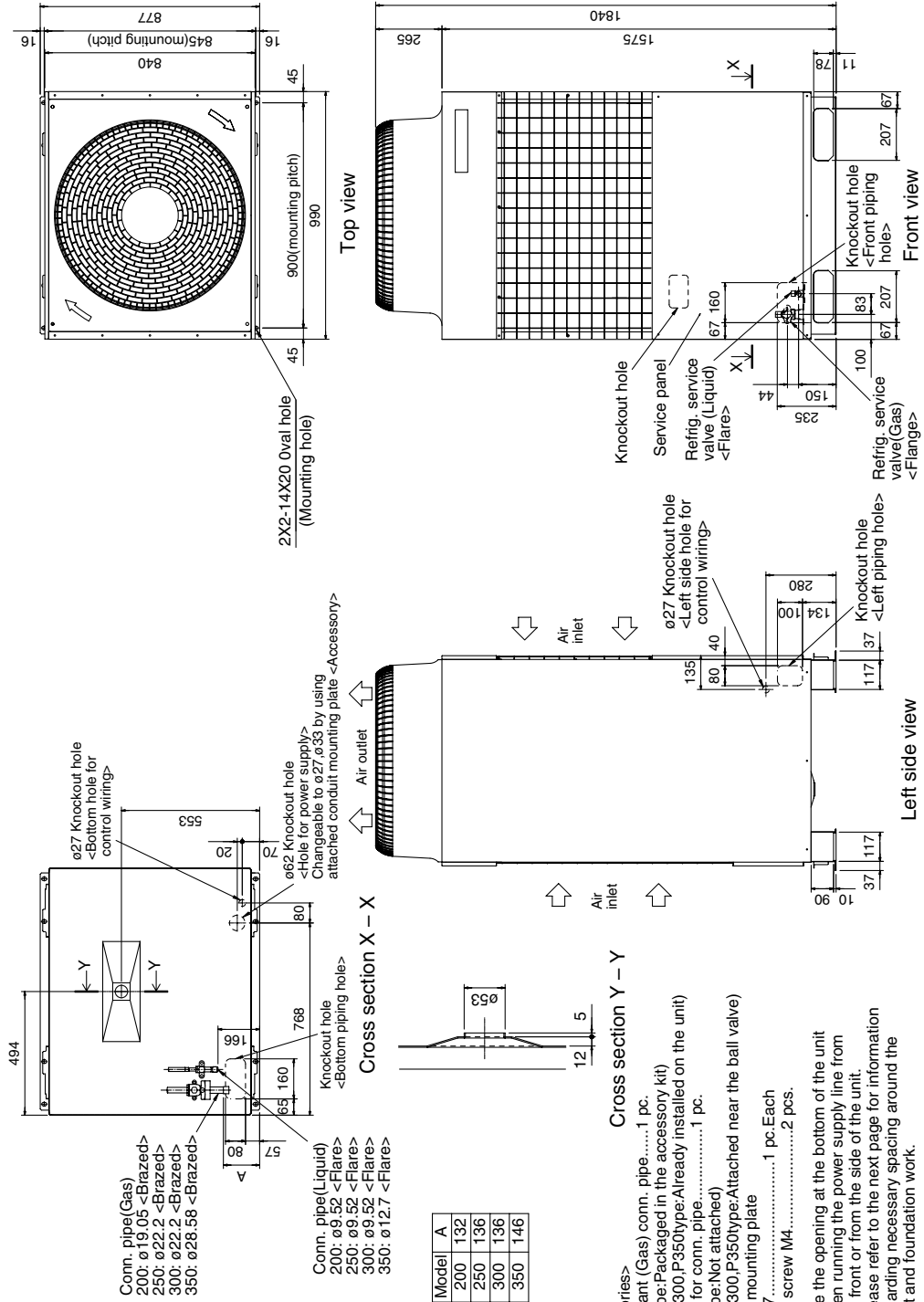


Ref.: h350ygm-WYNB0-3274

4. External Dimensions

PU(H)Y-P200,250,300,350YGM-A(-BS)

Unit : mm



- <Accessories>**
- Refrigerant (Gas) conn. pipe.....1 pc.
(P200type:Packaged in the accessory kit)
(P250, P300, P350type:Already installed on the unit)
 - Packing for conn. pipe.....1 pc.
(P200type:Not attached)
(P250, P300, P350type:Attached near the ball valve)
 - Conduit mounting plate
 $\phi 33, \phi 27$1 pc.Each
 - Tapping screw M4.....2 pcs.

Note 1. Use the opening at the bottom of the unit when running the power supply line from the front or from the side of the unit.
Note 2. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

Y-8-14(R10A)

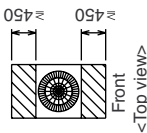
Spacing of PU(H)Y-P200,250,300,350YGM-A(-BS)

1. Space required around unit

* In case of single installation

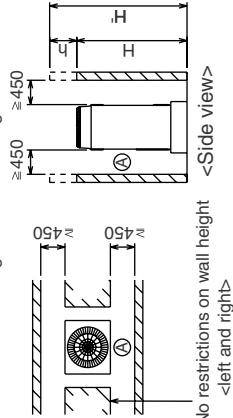
[Basic rules for spacing the unit]

- ① Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



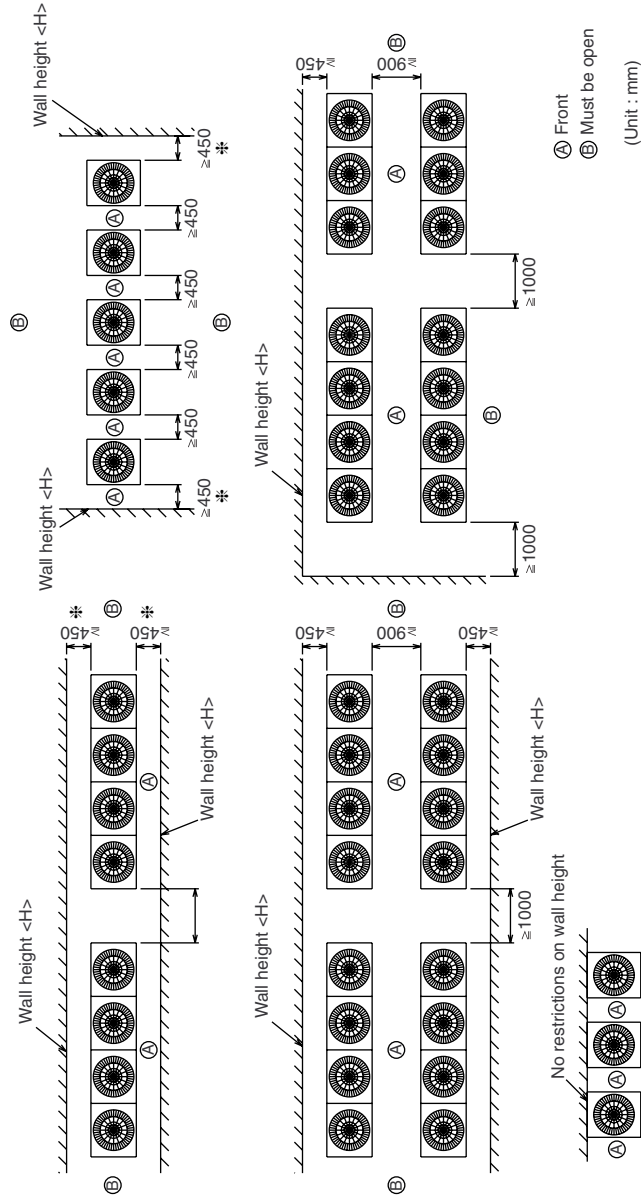
[When inlet air enters from right and left sides of unit]

- ① Wall heights $\langle H \rangle$ of the front and the back sides shall be within total height of unit.
- ② When wall height $\langle H \rangle$ exceeds total height of unit, add $\langle h \rangle$ dimension to 450 of the following figure.
 $h = \text{wall height } \langle H \rangle - \text{total height of unit.}$



* In case of collective installation and continuous installation

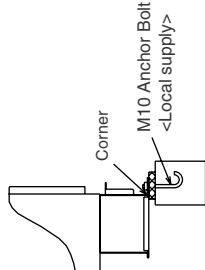
- ① Space required for collective installation and continuous installation:
 When installing several units, provide the space between each block considering passage for air and people.
- ② Open in two directions.
- ③ In case of wall height $\langle H \rangle$ exceeds total height of unit, add $\langle h \rangle$ dimension ($h = \text{wall height } \langle H \rangle - \text{total height of unit}$) to * marked dimension.
- ④ If there is a wall at both the front and the rear of the unit, install up to four units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each four units.



Ⓐ Front
 Ⓑ Must be open
 (Unit : mm)

2. Foundation work

- ① When building the foundation, give full attention to the floor strength, drain water disposal $\langle \text{drain water flows out of the unit, during operation} \rangle$, piping and wiring routes.
- ② Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
- ③ When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.



5. Electrical Wiring Diagram

PU(H)Y-P200, 250, 300, 350YGM-A-(BS)

< Symbol explanation >

Symbol	Name
ACCT1	AC Current Sensor
DCCT1	DC Current Sensor
DCL1	DC reactor (Power factor improvement)
52C1	Magnetic contactor (Inverter main circuit)
MIF1	Fan motor (Radiator panel)
CH11	Crank case heater (Compressor)
21S4a	4-way valve
21S4b	
21S4c	
SV1	Solenoid valve (Discharge-suction bypass)
SV5b	Solenoid valve (Heat exchanger capacity control)
SV5c	Electronic expansion valve (SC coil)
LEV1	Electronic expansion valve (SC coil)
TH11	Discharge pipe temp. detect
TH5	Pipe temp.detect (Hex outlet)
TH6	OA temp.detect
TH7	Liquid outlet temp.detect at Sub-cool coil
TH8	Bypass outlet temp.detect at Sub-cool coil
THH11	Radiator panel temp. detect
69H1	High pressure switch
69HS	High pressure sensor
69LS	Low pressure sensor
L1.L2	Choke coil (Transmission)
Z20	Function device
	Earth terminal

< Difference of appliance >

Model name	Appliance
PUHY-P200YGM-A	*3* and *34* do not exist.
PUHY-P250/P300/P350YGM-A	*34* do not exist.
PUHY-P400YGM-A	All exists
PUY-P200YGM-A	*32*~*33*~*34* and *35* do not exist.
PUY-P250/P300/P350YGM-A	*32*~*34* and *35* do not exist.

*1: Function according to switch operation.
(SW4-7, CN3D 1-2P, and CN3D 1-3P)

SW4-7: OFF
(Compressor ON/OFF and NIGHT MODE)

CN3D	Compressor	CN3D NIGHT 1-2P MODE
OPEN	ON	OPEN OFF
SHORT	OFF	SHORT ON

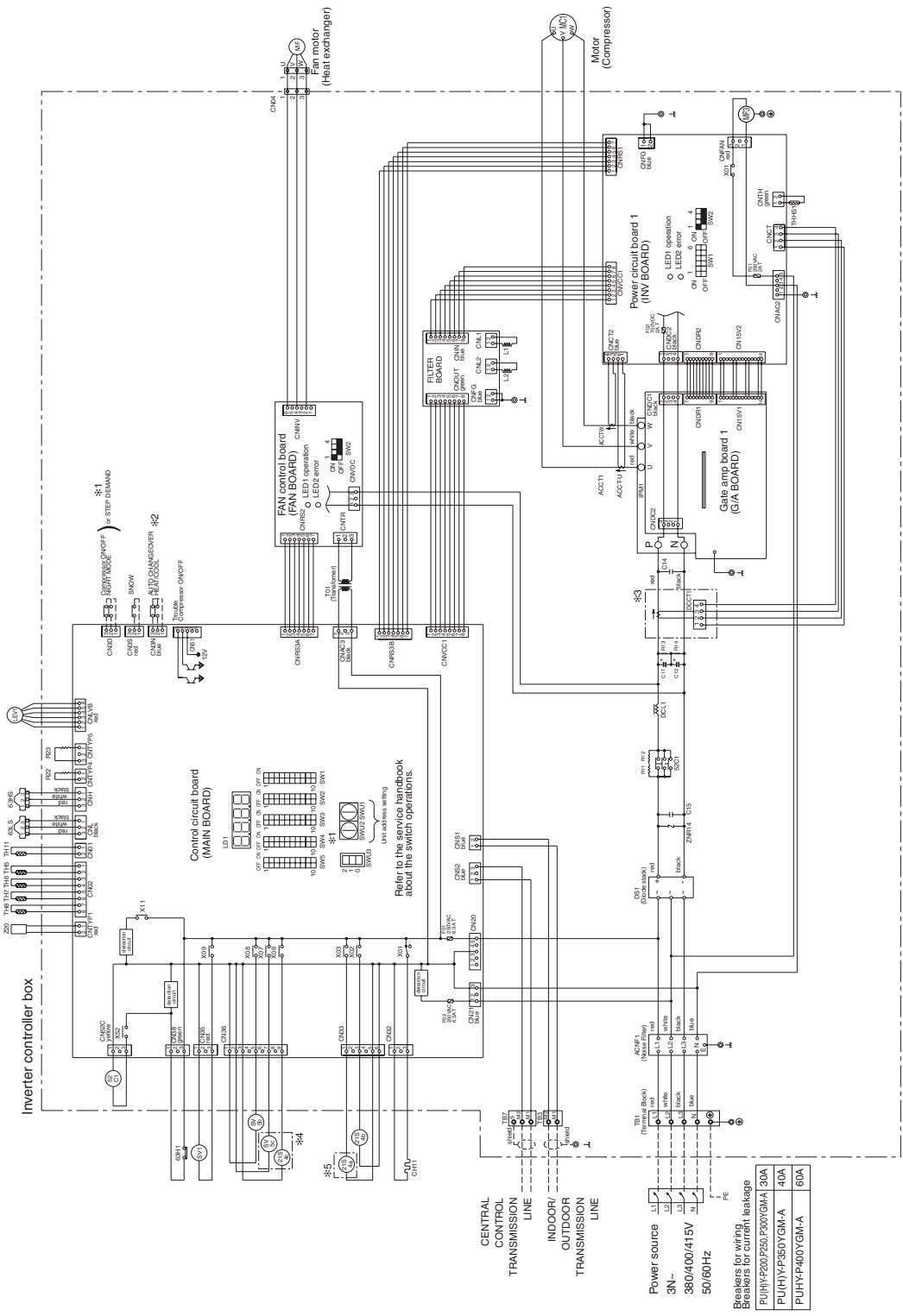
SW4-7: ON (STEP DEMAND)

CN3D 1-2P	OPEN	SHORT
CN3D 1-3P	OPEN	100%
	SHORT	0%
		50%

*2: Auto changeover (CN3N 1-2P, 1-3P)

CN3N 1-3P	CN3N 1-2P	OPEN	SHORT
OPEN	Auto changeover: OFF	-	-
SHORT	Auto changeover: ON	COOL	HEAT

NOTE: The broken lines indicate field wiring.



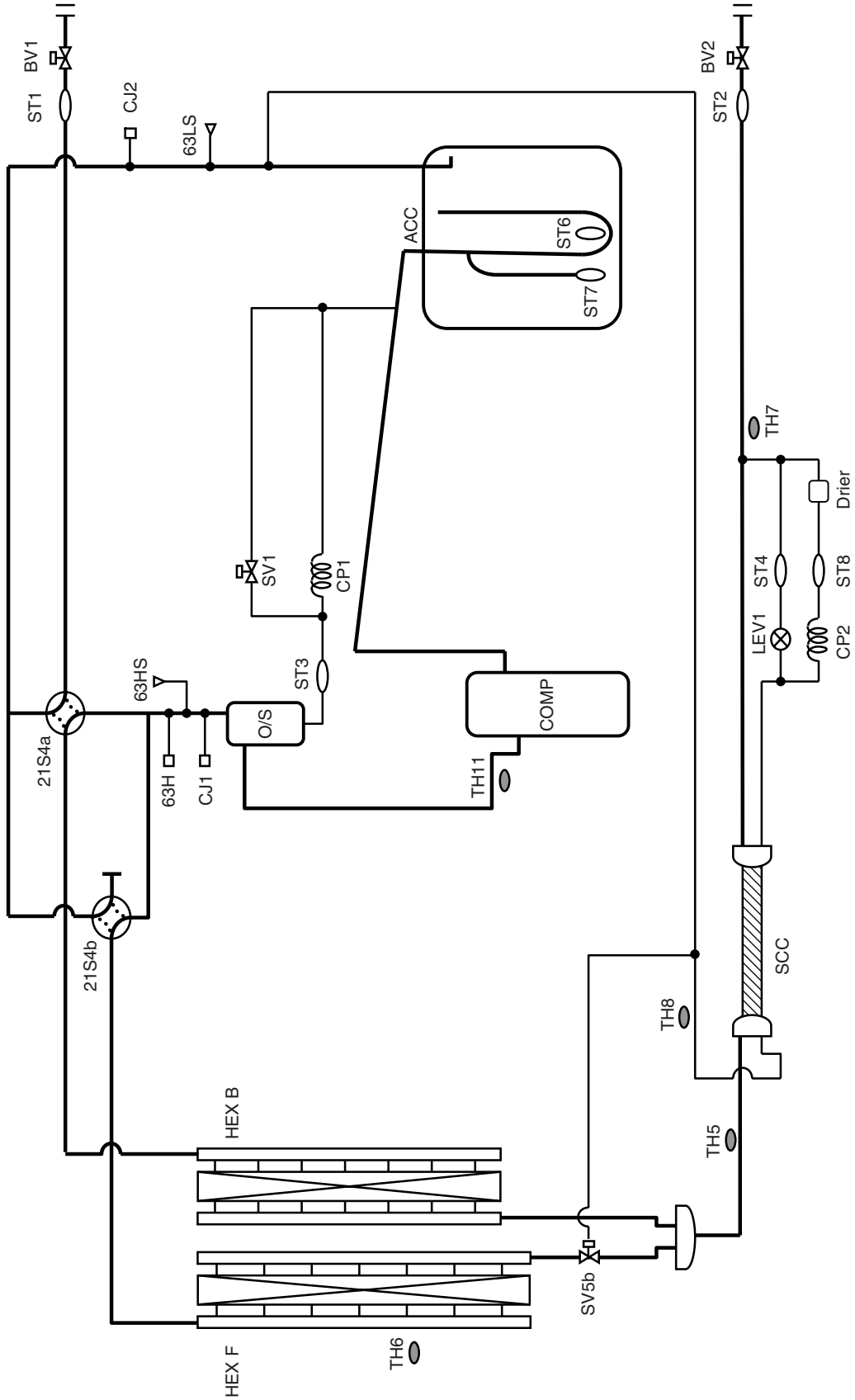
Y-8-14(R10A)

Ref: Y-p200-400gm-W274627

6. Refrigerant Circuit Diagram And Thermal Sensor

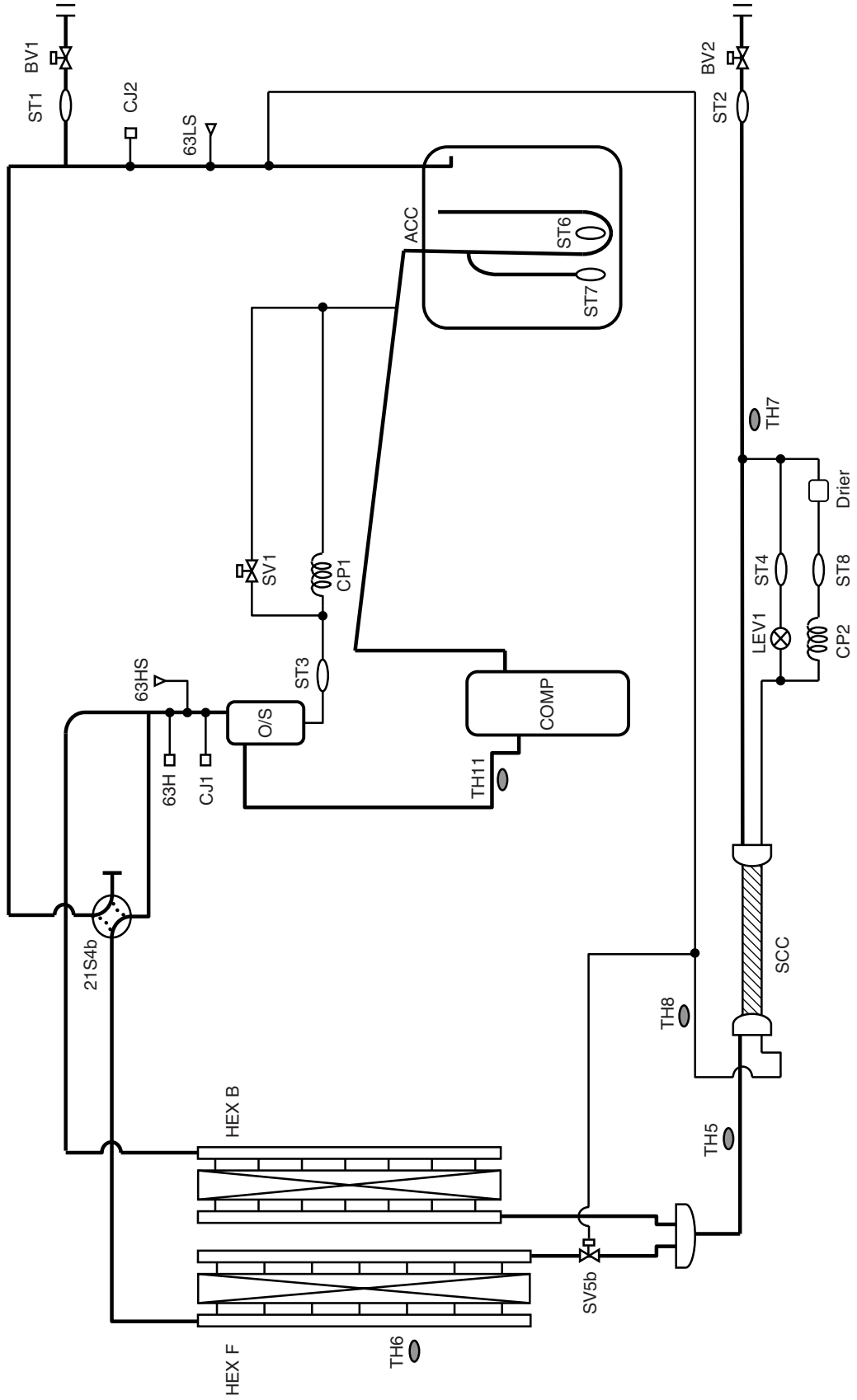
PUHY-P200, 250, 300, 350YGM-A(-BS)

Y-8-14(R410A)



Ref: rcd-200-350gmhp

PUY-P250, 350YGM-A(-BS)



Y-8-14(R410A)

PUHY-P400YGM-A (-BS)

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2-4 Correction at frosting and defrosting	II -33
2-5 Operation limit	II -33
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4. External Dimensions	II -35
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6. Refrigerant Circuit Diagram	II -38
And Thermal Sensor	

Y-16(R410A)

1. Specifications

Y-16(R410A)

Model name		PUHY-P400YGM-A (-BS)		
		Cooling	Heating	
Capacity	*1 †	kW	45.0	50.0
	*1 †	BTU/h	153,500	170,500
	*1 ††	kcal/h	40,000	-
Power source		3N ~ 380/400/415V 50/60Hz		
Power input		kW	13.42	12.43
Current		A	22.6 / 21.5 / 20.7	20.9 / 19.9 / 19.2
Fan	Type x Quantity		Propeller fan x 1	
	Airflow rate	m ³ /min	240	
	Motor output	kW	0.64	
Compressor	Type		Hermetic	
	Motor output	kW	9.7	
	Crankcase heater	kW	0.045 x 1	
Heat exchanger		Salt resistant fin		
Refrigerant / Lubricant		R410A / MEL32		
External finish		Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>		
External dimension H x W x D		mm	1,840 x 1,290 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		ø12.7 Flare	
	Low press. pipe		ø28.58 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~22	
Noise level	*2	dB<A>	61 / 61	
Net weight		kg	275	
Operating temperature range		Cooling		Heating
		Indoor : 15°CWB ~ 24°CWB Outdoor: -5°CDB ~ 43°CDB (0°CDB ~ 43°CDB, when the outdoor unit is at a lower position)		Indoor : 15°CDB ~ 27°CDB Outdoor: -20°CWB ~ 15.5°CWB
<p>Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition. † <Cooling> Indoor : 27°CDB / 19°CWB Outdoor : 35°CDB †† <Cooling> Indoor : 27°CDB / 19.5°CWB Outdoor : 35°CDB <Heating> Indoor : 20°CDB Outdoor : 7°CDB / 6°CWB Pipe length : 5m Height difference : 0m Pipe length : 7.5m Height difference : 0m</p> <p>*2. It is measured in anechoic room.</p> <p>** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</p>				

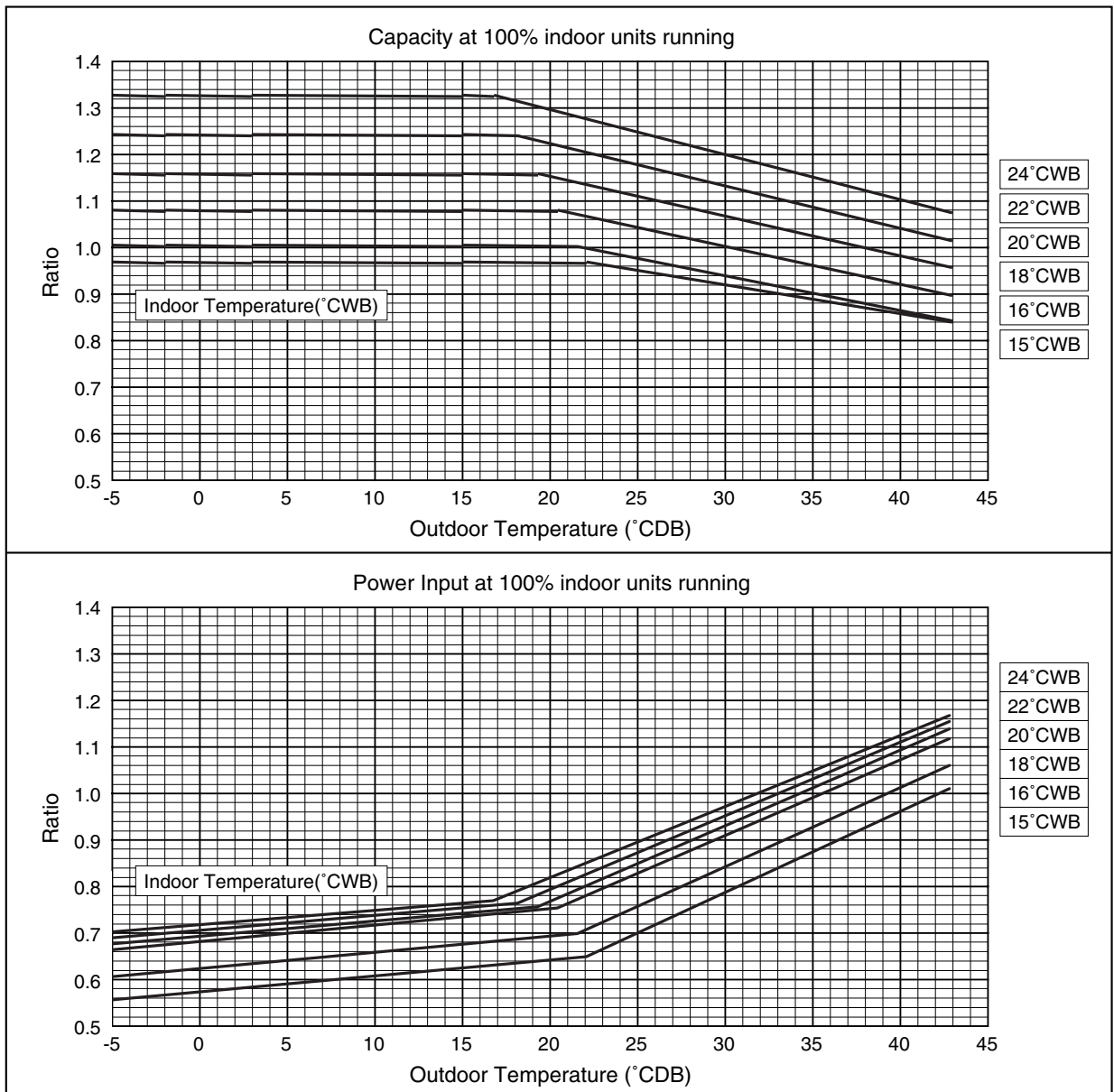
Ref.: M-WYNCO-6931&6944

2. Capacity Table

Cooling

- Standard Specifications

		PUHY-P400YGM
Capacity	kW	45.0
Input	kW	13.42



Ref: cap&inpc-p300-400

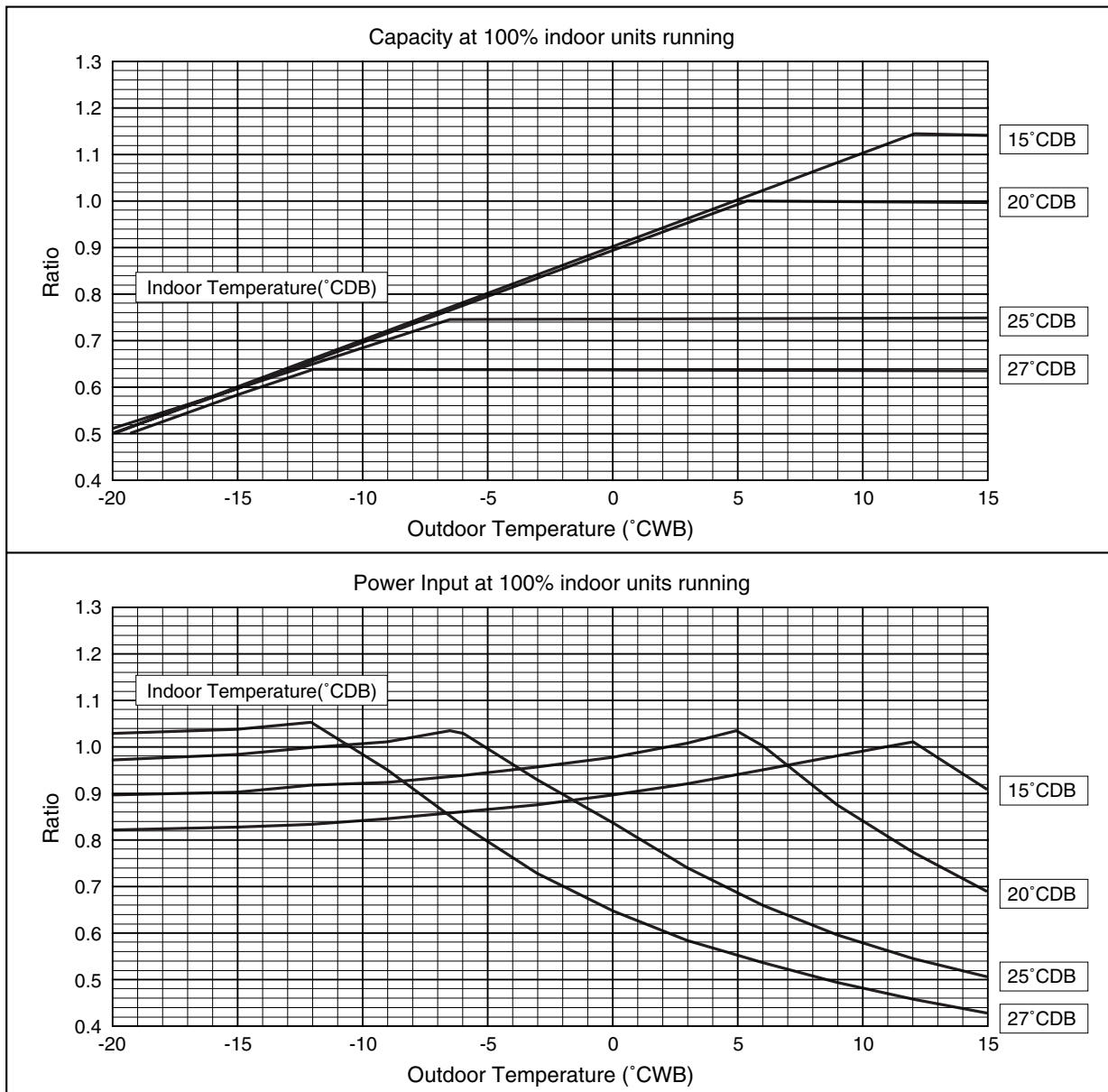
Y-16(R410A)

Heating

- Standard Specifications

		PUHY-P400YGM
Capacity	kW	50.0
Input	kW	12.43

Y-16(R410A)

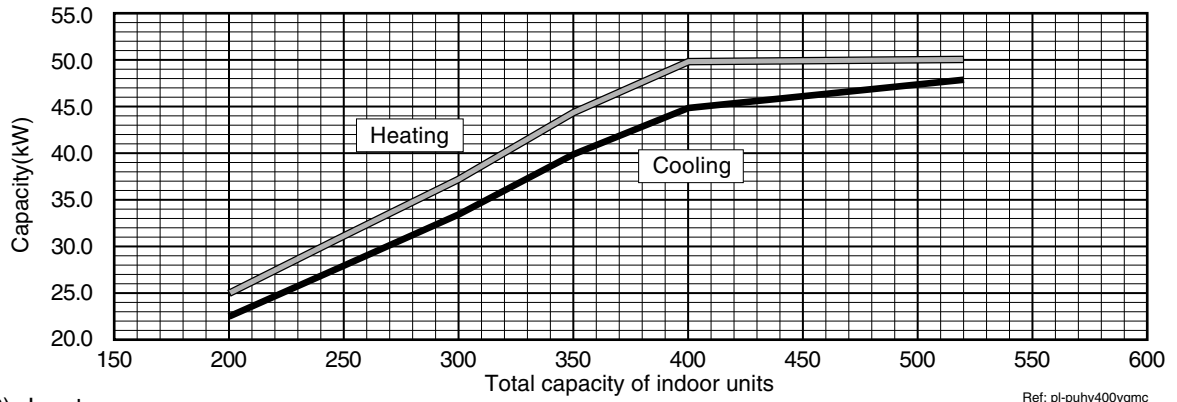


Ref: cap&inph-p300-400

2-2. Correction by total indoor

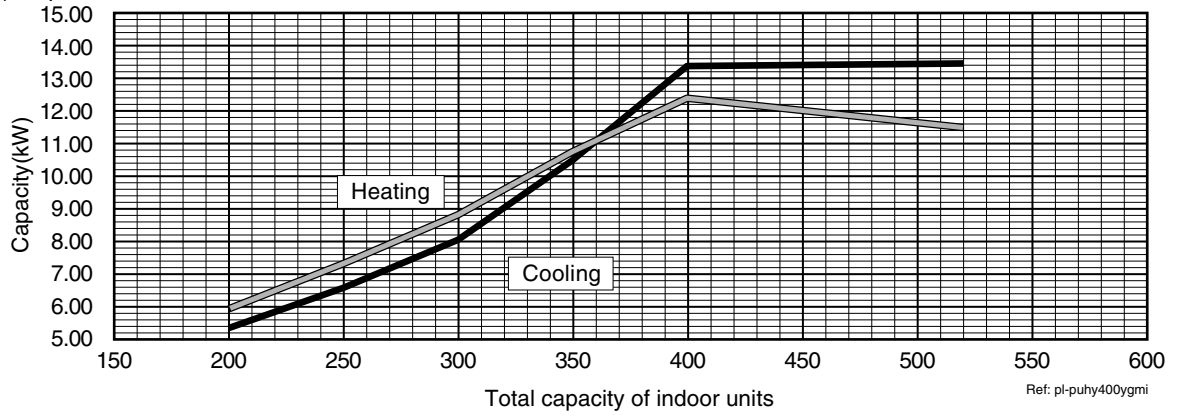
PUHY-P400YGM

1) Capacity



Ref: pl-puhy400ygm

2) Input



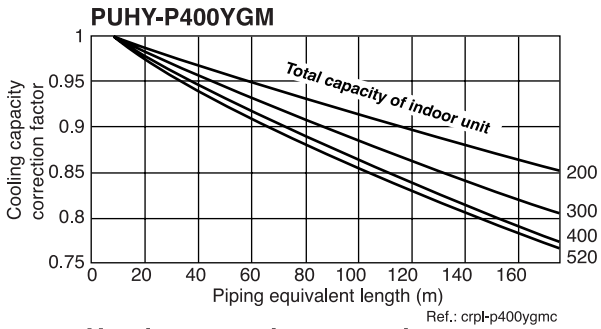
Ref: pl-puhy400ygm

Y-16(R410A)

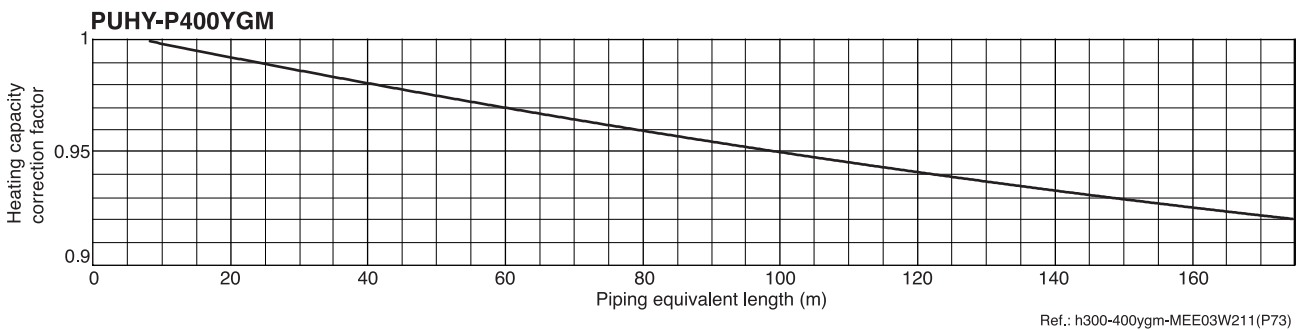
2-3. Correction by refrigerant piping length

Due to the extension of refrigerant piping, a decrease of cooling/heating capacity happens. The actual capacity is considered by multiplying the correction factor according to the equivalent length of the refrigerant piping shown at the table below.

• Cooling capacity correction



• Heating capacity correction



• How to obtain piping equivalent length

- 1 PUHY, PURY-P200YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bent on the piping) m
- 2 PU(H)Y, PURY-P250,300YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bent on the piping) m
- 3 PU(H)Y, PURY-P350YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m
- 4 PUHY, PURY-P400,500,650YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m

2-4. Correction at frosting and defrosting

Due to frosting at the outdoor heat exchanger and the automatic defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

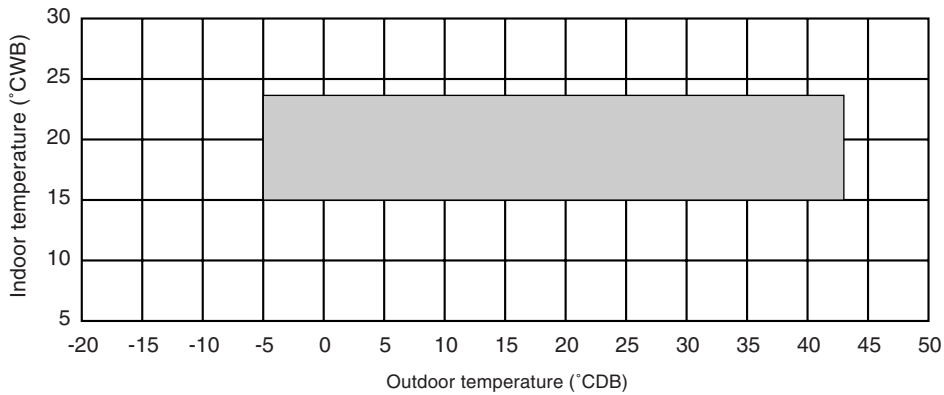
Table of correction factor

Outdoor inlet air temp (°CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.95	0.90	0.87	0.88	0.89	0.90	0.95	0.95	0.95	0.95

Ref.: def-ygmp400

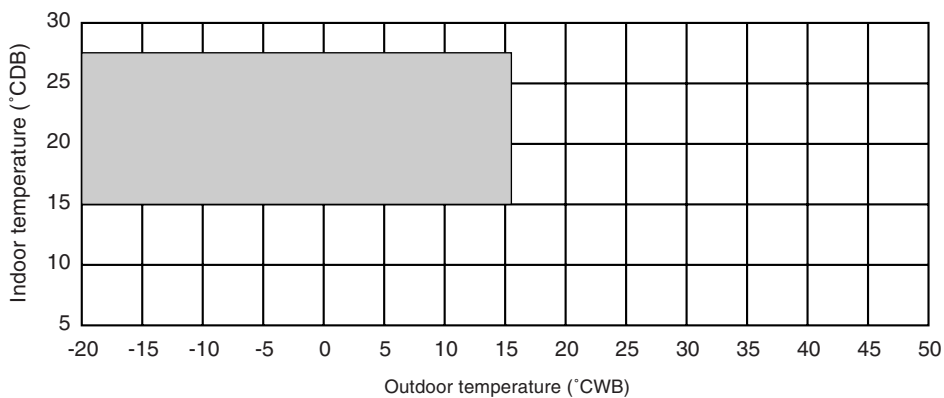
2-5. Operation limit

• Cooling



* The operation temperature of outdoor unit is limited into 0~43°CDB when the outdoor unit is at a position lower than the indoor units.

• Heating



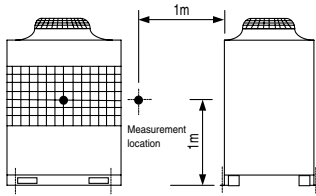
Ref.: ol-ygmhp

3. Sound Levels

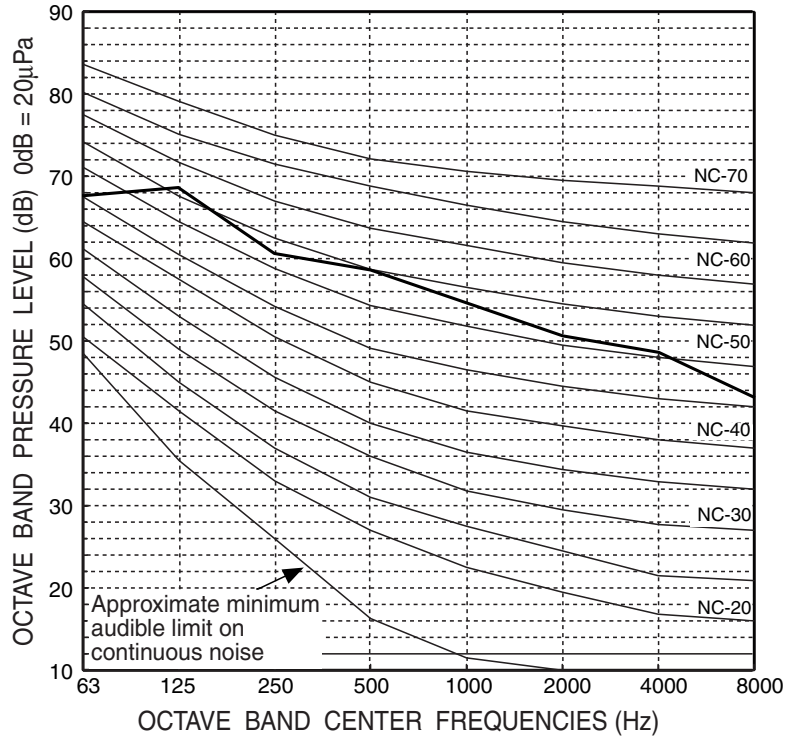
PUHY-P400YGM

63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
67.5	68.5	60.05	58.5	54.5	50.5	48.5	43	61

Measurement condition

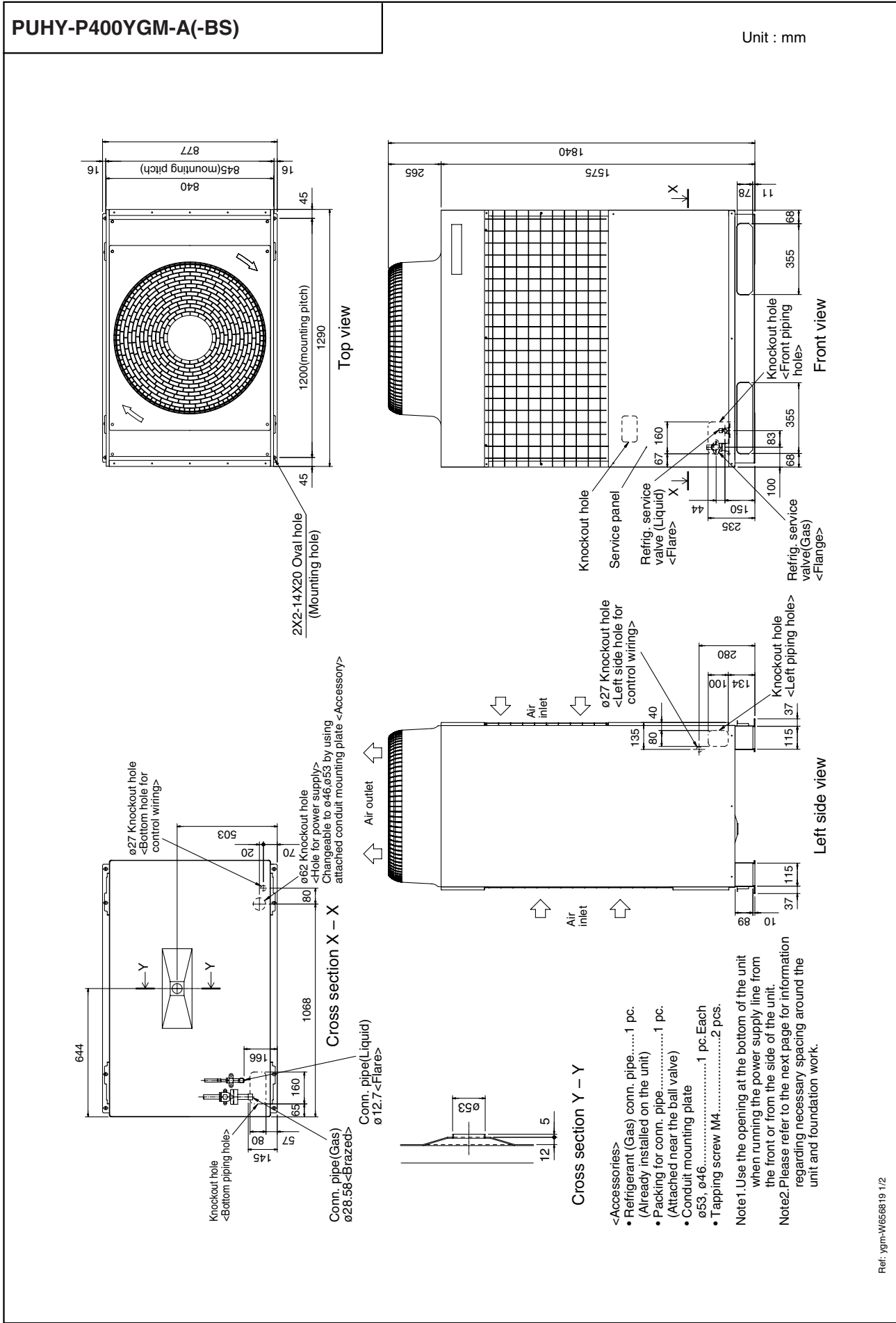


Y-16(R410A)



Ref.: h400ygm-WYNB0-3275

4. External Dimensions



Y-16(R410A)

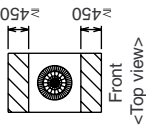
Spacing of PUHY-P400YGM-A(-BS)

1.Space required around unit

* In case of single installation

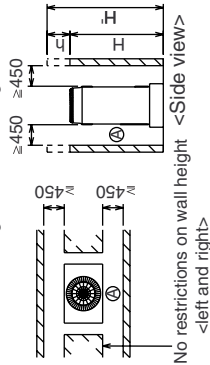
[Basic rules for spacing the unit]

- ① Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



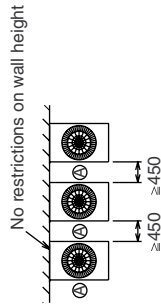
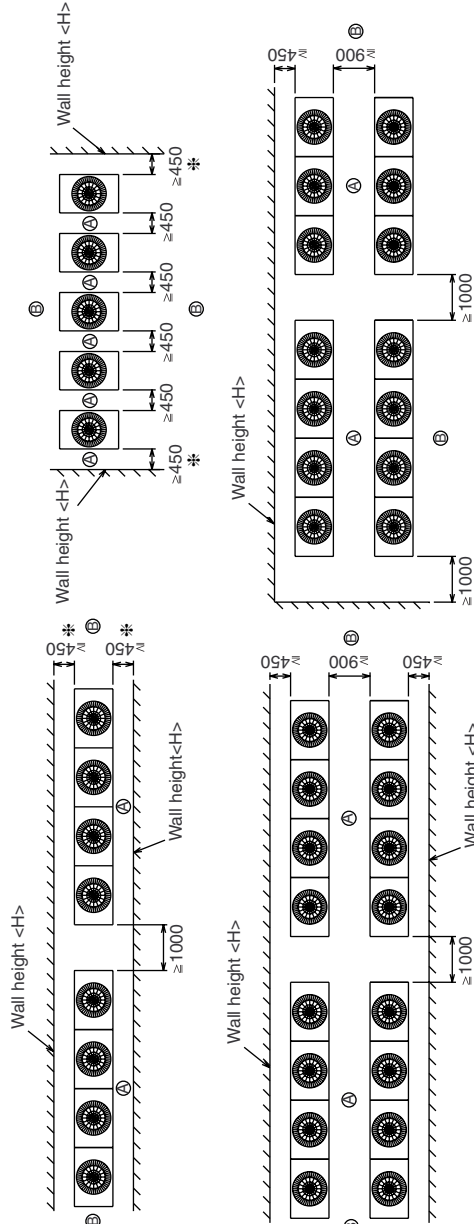
[When inlet air enters from right and left sides of unit]

- ① Wall heights <H> of the front and the back sides shall be within total height of unit.
- ② When wall height <H> exceeds total height of unit, add <h> dimension to 450 of the following figure.



* In case of collective installation and continuous installation

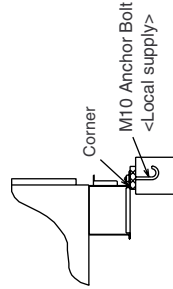
- ① Space required for collective installation and continuous installation: When installing several units, provide the space between each block considering passage for air and people.
- ② Open in two directions.
- ③ In case of wall height <H> exceeds total height of unit, add <h> dimension (h=wall height <H> -total height of unit) to * marked dimension.
- ④ If there is a wall at both the front and the rear of the unit, install up to four units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each four units.



Ⓐ Front
Ⓑ Must be open
(Unit : mm)

2.Foundation work

- ① When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operation>, piping and wiring routes.
- ② Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
- ③ When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.



5. Electrical Wiring Diagram

PUHY-P400YGM-A(-BS)

< Symbol explanation >

Symbol	Name
ACCT1	AC Current Sensor
DCCT1	DC Current Sensor
DCL1	DC reactor (Power factor improvement)
52C1	Magnetic contactor (Inverter main circuit)
MF1	Fan motor (Radiator panel)
CH1	Crank case heater (Compressor)
21S4a	4-Way valve
21S4b	
21S4c	∅4
SV1	Solenoid valve (Discharge-suction bypass)
SV5b	Solenoid valve (Heat exchanger capacity control)
SV5c	∅4
LEV1	Electronic expansion valve (SC coil)
TH1	Discharge pipe temp. detect
TH5	Pipe temp.detect (Hex outlet)
TH6	OA temp.detect
TH7	liquid outlet temp.detect at Sub-cool coil
TH8	liquid outlet temp.detect at Sub-cool coil
THS1	Radiator panel temp. detect
69H1	High pressure switch
69HS	High pressure sensor
69LS	Low pressure sensor
LI.L2	Choke coil (Transmission)
Z20	Function device
⊕	Earth terminal

< Difference of appliance >

Model name	Appliance
PUHY-P200YGM-A	∅3" and ∅4" do not exist.
PUHY-P300/P350YGM-A	∅4" do not exist.
PUHY-P400YGM-A	All exists
PUY-P200YGM-A	∅2" ∅3" ∅4" and ∅5" do not exist.
PUY-P250/P300/P350YGM-A	∅2" ∅4" and ∅5" do not exist.

∅1: Function according to switch operation.
(SW4-7, CN3D 1-2P and CN3D 1-3P)

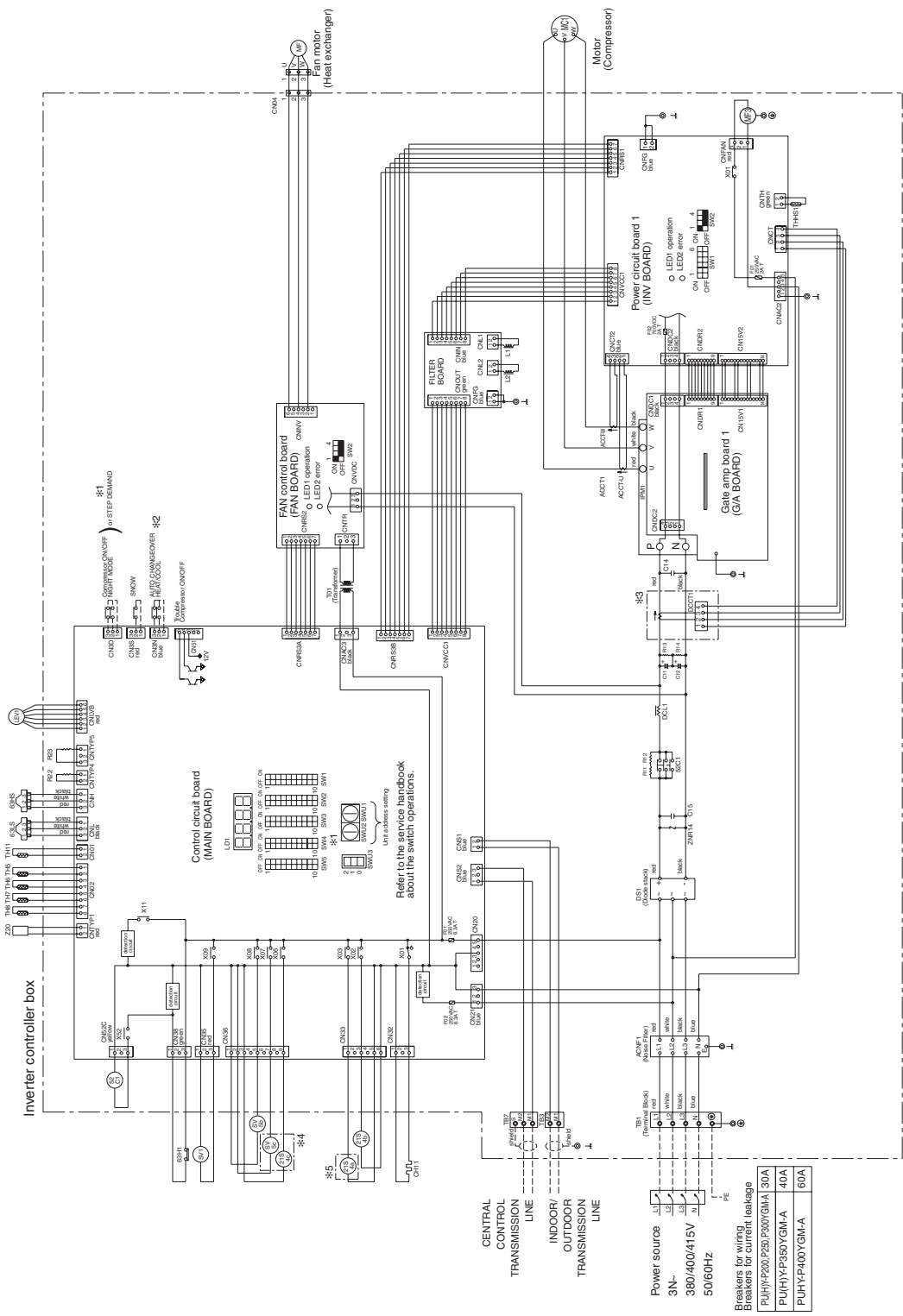
SW4-7, OFF	Compressor ON/OFF and NIGHT MODE
CN3D 1-3P	CN3D NIGHT MODE
OPEN	1-2P ON/OFF
SHORT	ON
OFF	OFF
ON	SHORT ON

SW4-7, ON (STEP DEMAND)	CN3D 1-2P (STEP DEMAND)
CN3D 1-2P	CN3D 1-2P
OPEN	OPEN
SHORT	SHORT
OFF	0%
ON	50%

∅2: Auto changeover (CN3N 1-2P, 1-3P)

CN3N 1-3P	CN3N 1-2P
OPEN	Auto changeover: OFF
SHORT	Auto changeover: ON
OFF	COOL
ON	HEAT

NOTE: The broken lines indicate field wiring.



Power source	Breakers for wiring
3N-380/400/415V 50/60HZ	PUHY-P200/P250YGM-A 30A
	PUHY-P350YGM-A 40A
	PUHY-P400YGM-A 60A

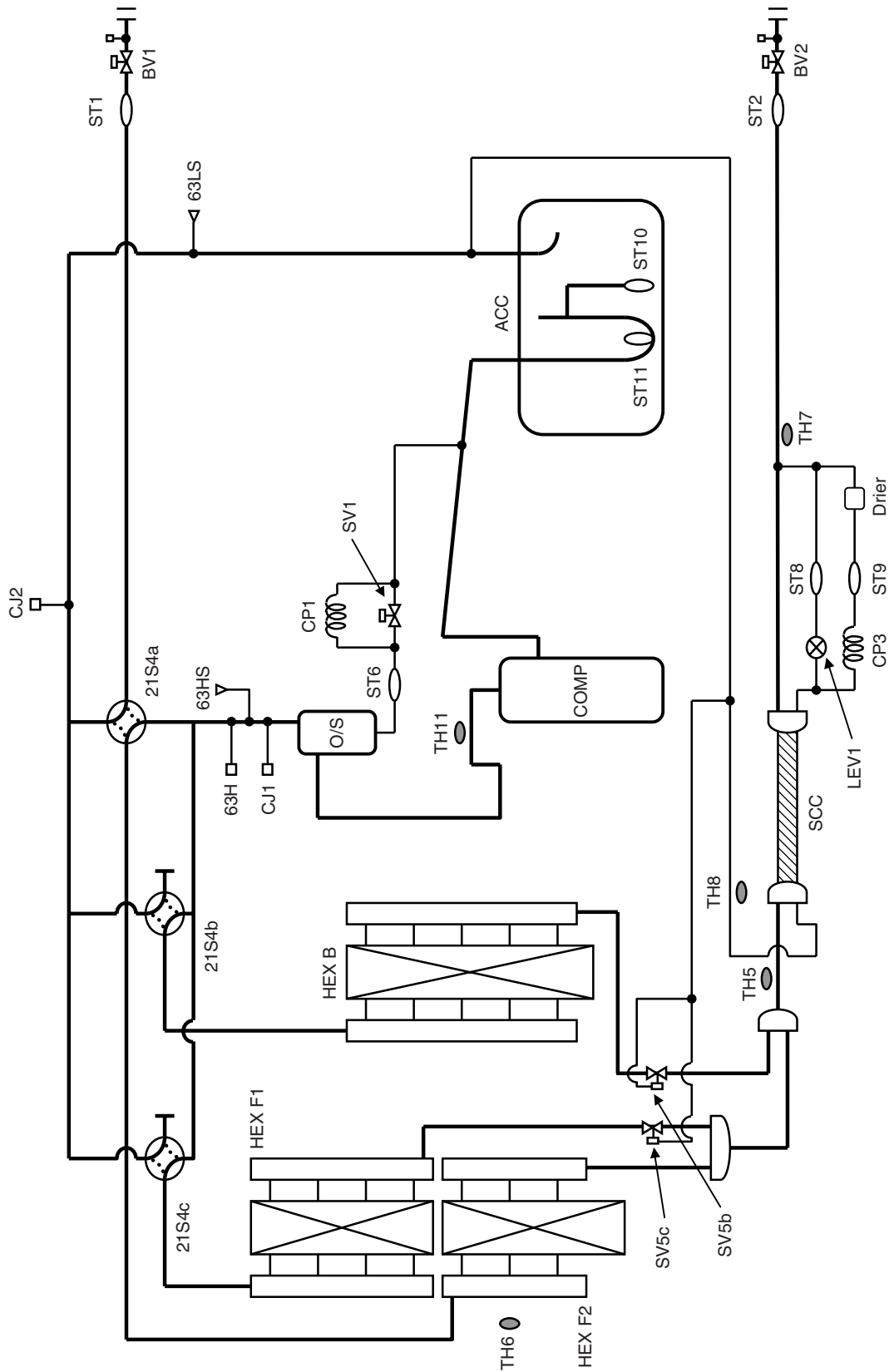
Y-16(R410A)

Ref: Y-p200-400ygm-w274627

6. Refrigerant Circuit Diagram And Thermal Sensor

PUHY-P400YGM-A(-BS)

Y-16(R410A)



Ref: rcd-400/gmhp

PUHY-P500·650YGM-A (-BS)

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And Thermal Sensor	

V-20-26(R410A)

1. Specifications

Model name		PUHY-P500YGM-A (-BS)		
		Cooling	Heating	
Capacity	*1 †	kW	56.0	63.0
	*1 †	BTU/h	191,100	215,000
	*1 ††	kcal/h	50,000	-
Power source		3N ~ 380/400/415V 50/60Hz		
Power input	kW	15.59	15.89	
Current	A	26.3 / 25.0 / 24.0	26.8 / 25.4 / 24.5	
Fan	Type x Quantity	Propeller fan x 2		
	Airflow rate	m ³ /min	400	
	Motor output	kW	0.38 x 2	
Compressor	Type	Hermetic		
	Motor output	kW	8.2 + 5.3	
	Crankcase heater	kW	0.045 x 2	
Heat exchanger		Salt resistant fin		
Refrigerant / Lubricant		R410A / MEL32		
External finish		Pre-coated galvanized sheets (+ powder coating for -BS type) <MUNSEL 5Y 8/1 or similar>		
External dimension H x W x D		mm 1,840 x 1,990 x 840		
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		φ15.88 Flare	
	Low press. pipe		φ28.58 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~24	
Noise level	*2	dB<A>	60 / 61	
Net weight		kg 455		
Operating temperature range		Cooling	Heating	
		Indoor : 15°CWB ~ 24°CWB Outdoor: -5°CDB ~ 43°CDB (0°CDB ~ 43°CDB, when the outdoor unit is at a lower position)	Indoor : 15°CDB ~ 27°CDB Outdoor: -20°CWB ~ 15.5°CWB	
<p>Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition. † <Cooling> Indoor : 27°CDB / 19°CWB Outdoor : 35°CDB †† <Cooling> Indoor : 27°CDB / 19.5°CWB Outdoor : 35°CDB <Heating> Indoor : 20°CDB Outdoor : 7°CDB / 6°CWB Pipe length : 5m Height difference : 0m Pipe length : 7.5m Height difference : 0m</p> <p>*2. It is measured in anechoic room.</p> <p>** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</p>				

Y-20-26(R410A)

Model name		PUHY-P650YGM-A (-BS)		
		Cooling	Heating	
Capacity	*1 †	kW	73.0	81.5
	*1 †	BTU/h	249,000	278,000
	*1 ††	kcal/h	65,000	-
Power source		3N ~ 380/400/415V 50/60Hz		
Power input		kW	19.65	19.82
Current		A	33.1 / 31.5 / 30.3	33.4 / 31.7 / 30.6
Fan	Type x Quantity		Propeller fan x 2	
	Airflow rate	m ³ /min	400	
	Motor output	kW	0.38 x 2	
Compressor	Type		Hermetic	
	Motor output	kW	10.9 + 5.3	
	Crankcase heater	kW	0.045 x 2	
Heat exchanger		Salt resistant fin		
Refrigerant / Lubricant		R410A / MEL32		
External finish		Pre-coated galvanized sheets (+ powder coating for –BS type) <MUNSEL 5Y 8/1 or similar>		
External dimension H x W x D		mm	1,840 x 1,990 x 840	
Protection devices	High pressure protection		4.15MPa	
	Compressor		Over current protection / Over heat protection	
	Fan		Thermal switch	
	Inverter		Over current protection / Thermal protection	
Refrigerant piping diameter	High press. pipe		φ15.88 Flare	
	Low press. pipe		φ28.58 Brazed	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model / Quantity		Model P20~P250 / 1~32	
Noise level	*2	dB<A>	62 / 62.5	
Net weight		kg	455	
Operating temperature range		Cooling		Heating
		Indoor : 15°CWB ~ 24°CWB Outdoor: -5°CDB ~ 43°CDB (0°CDB ~ 43°CDB, when the outdoor unit is at a lower position)		Indoor : 15°CDB ~ 27°CDB Outdoor: -20°CWB ~ 15.5°CWB
<p>Note: *1. Cooling/Heating capacity indicates the maximum value at operation under the following condition. † <Cooling> Indoor : 27°CDB / 19°CWB Outdoor : 35°CDB †† <Cooling> Indoor : 27°CDB / 19.5°CWB Outdoor : 35°CDB <Heating> Indoor : 20°CDB Outdoor : 7°CDB / 6°CWB Pipe length : 5m Height difference : 0m Pipe length : 7.5m Height difference : 0m</p> <p>*2. It is measured in anechoic room.</p> <p>** Installation/foundation work, electrical connection work, duct work, insulation work, power source switch, and other items shall be referred to the Installation Manual.</p>				

Y-20-26(R410A)

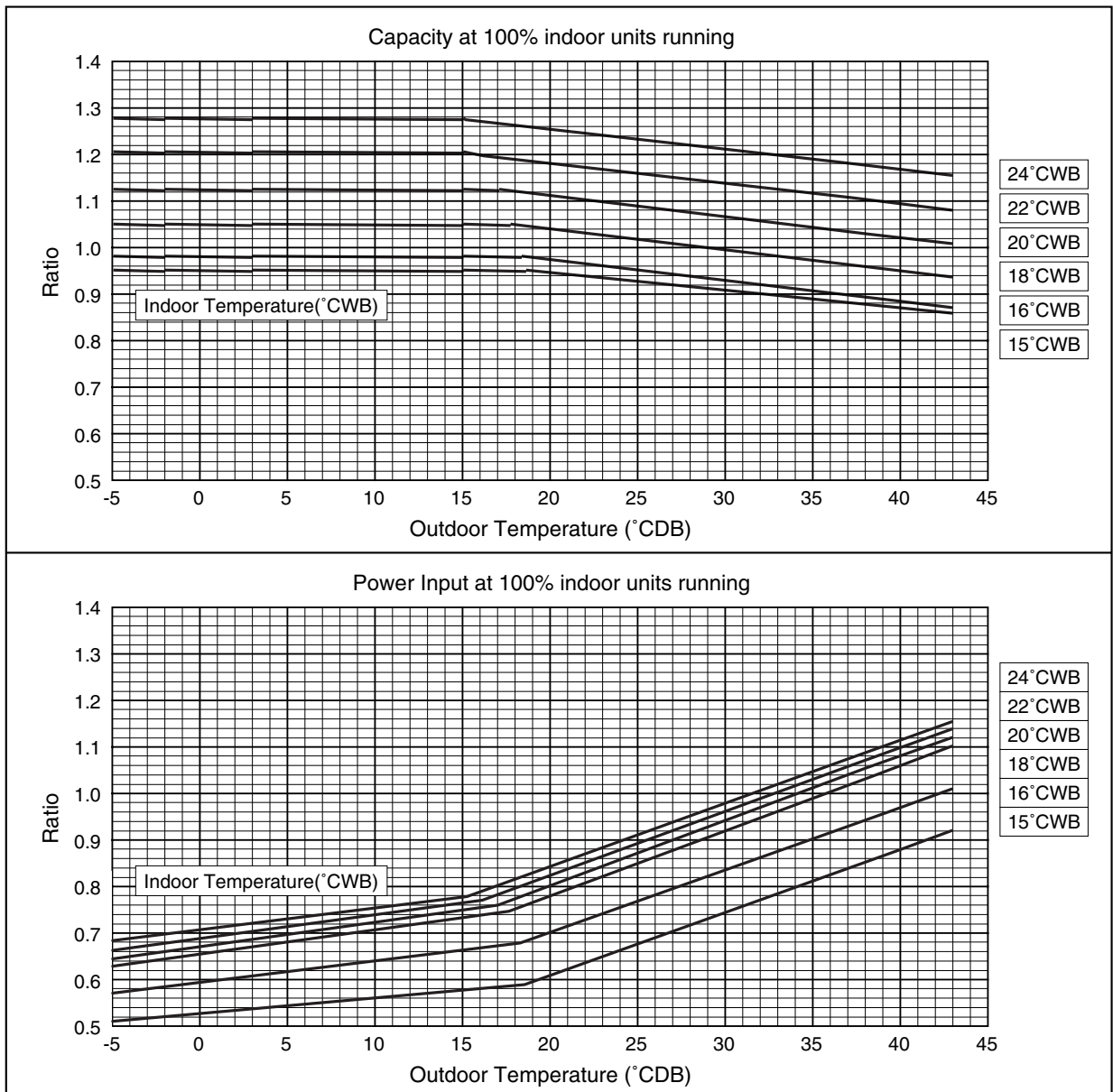
2. Capacity Table

2-1. Correction by temperature

Cooling

- Standard Specifications

		PUHY-P500YGM	PUHY-P650YGM
Capacity	kW	56.0	73.0
Input	kW	15.59	19.65



V-20-26(R410A)

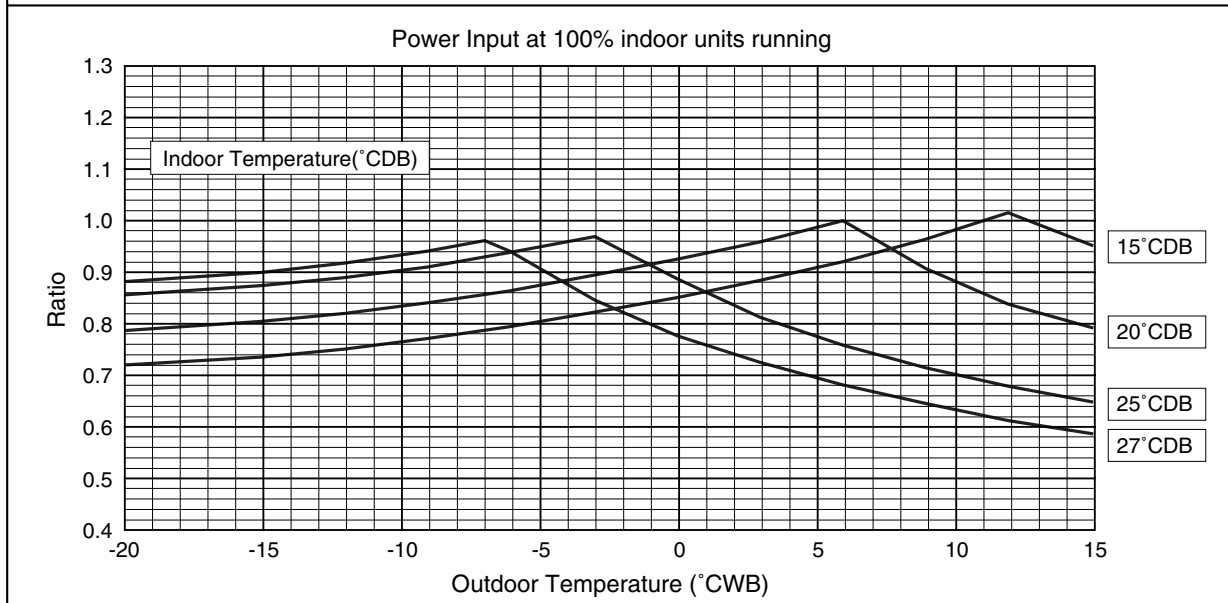
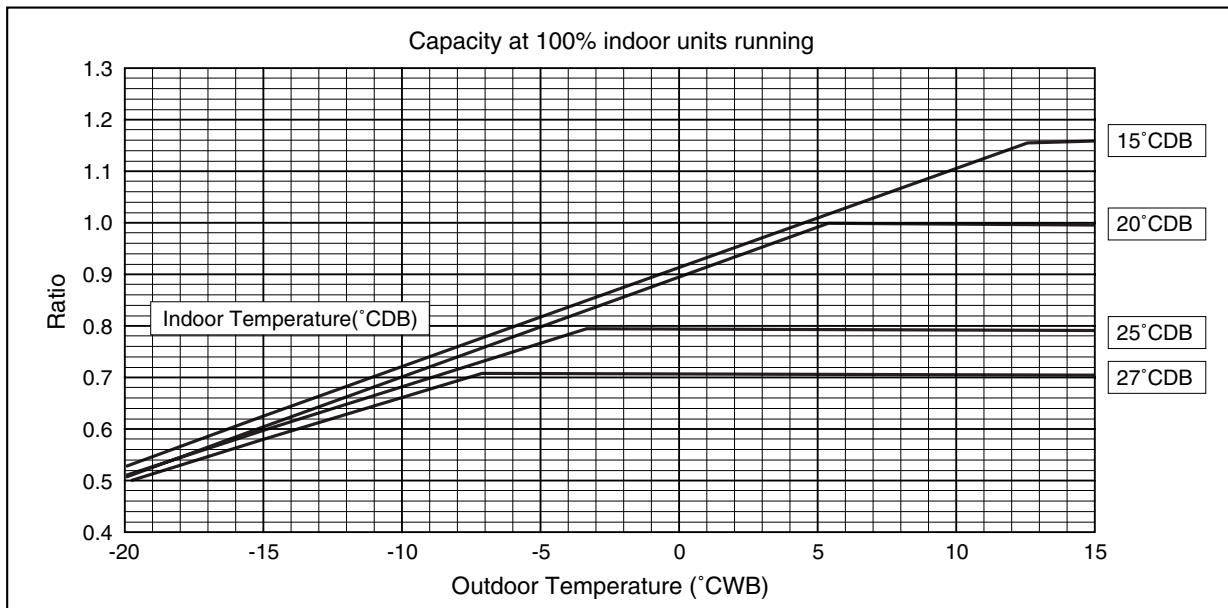
Ref: cap&inpc-p450-650

Heating

- Standard Specifications

		PUHY-P500YGM	PUHY-P650YGM
Capacity	kW	63.0	81.5
Input	kW	15.89	19.82

Y-20-26(R410A)

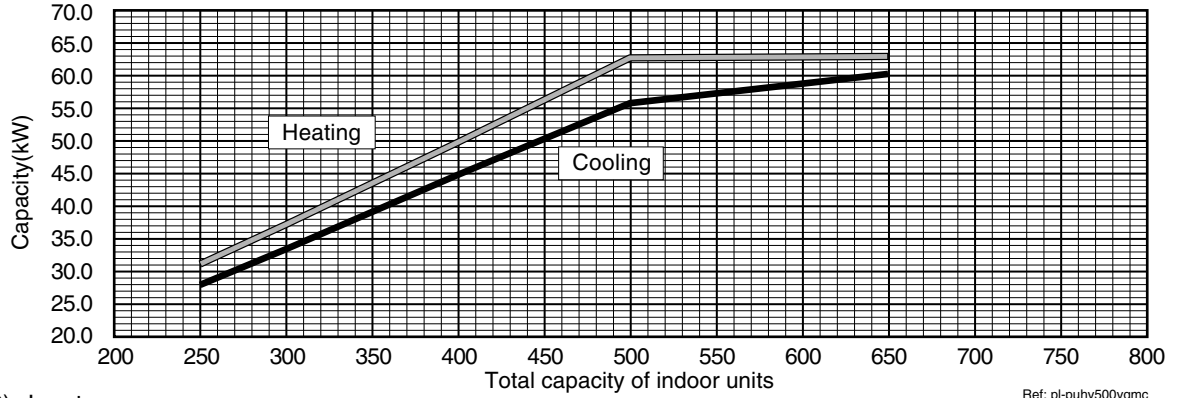


Ref. cap&inph-p450-650

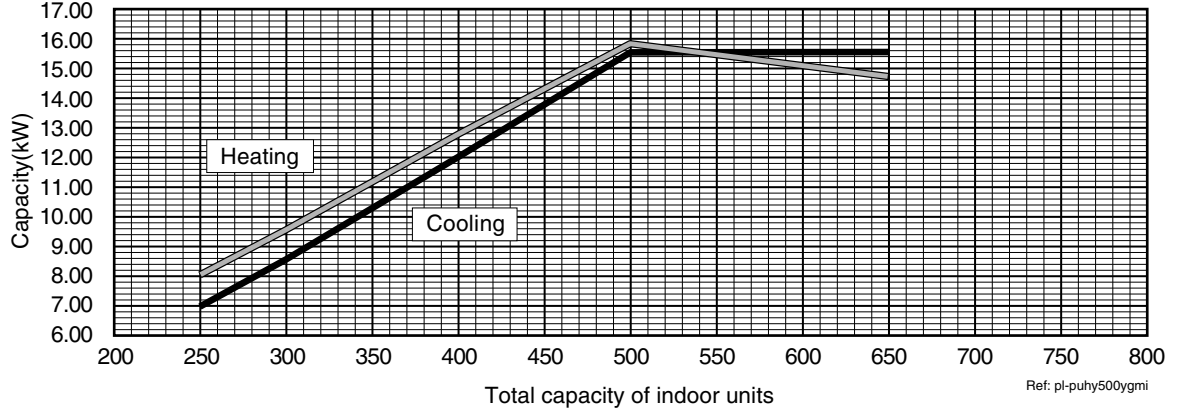
2-2. Correction by total indoor

PUHY-P500YGM

1) Capacity

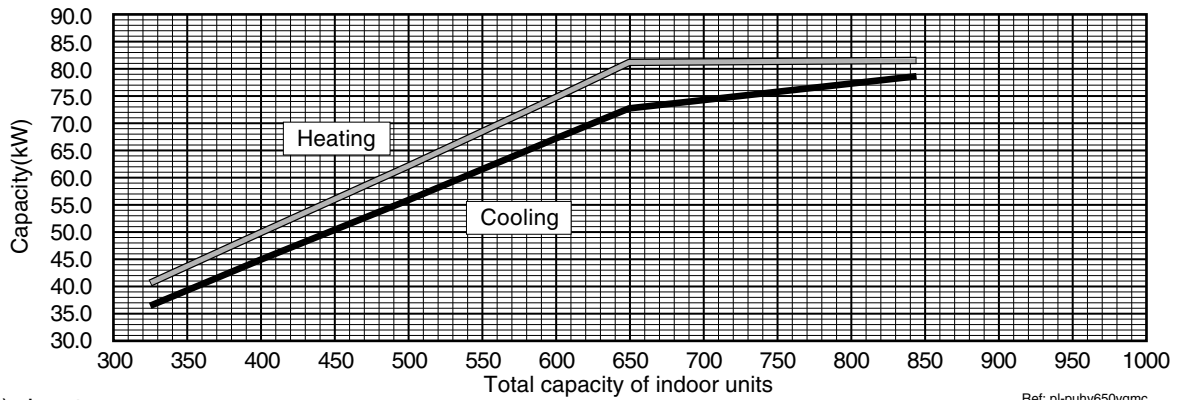


2) Input

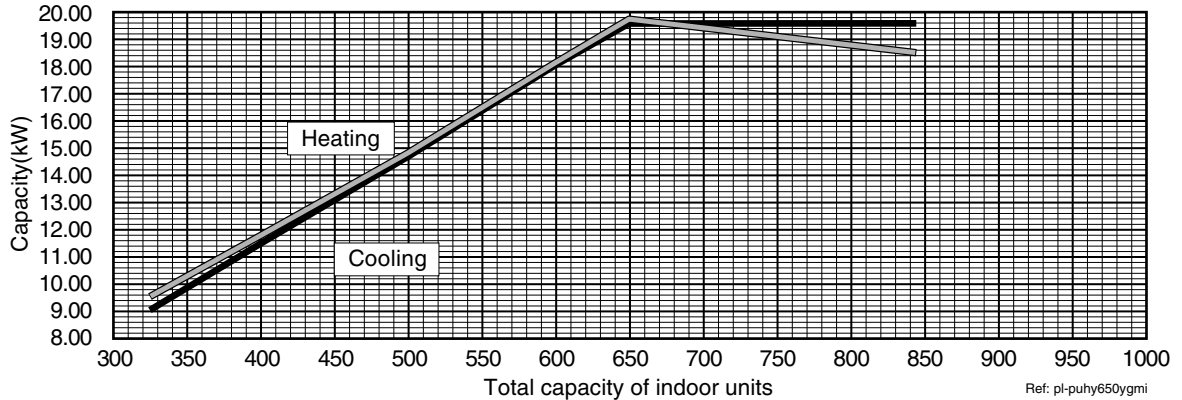


PUHY-P650YGM

1) Capacity



2) Input

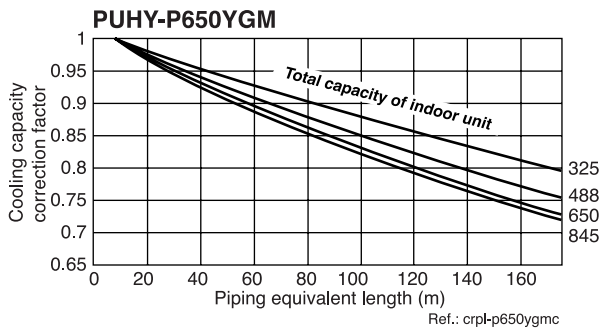
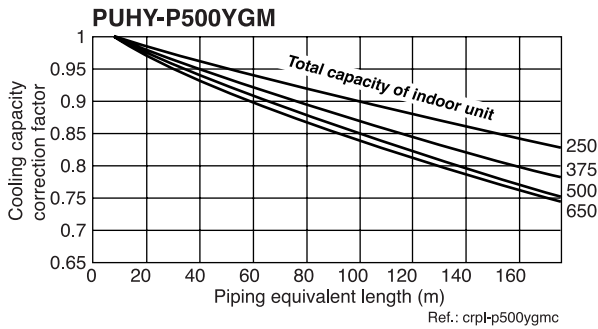


V-20-26(R410A)

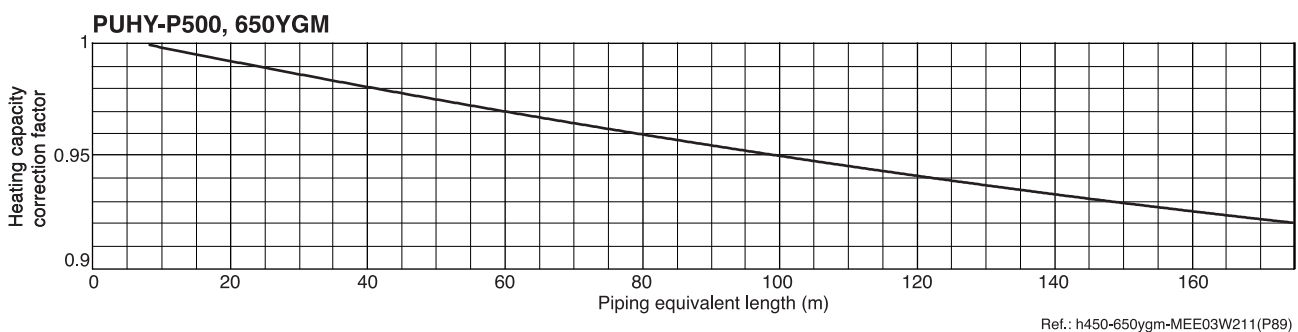
2-3. Correction by refrigerant piping length

Due to the extension of refrigerant piping, a decrease of cooling/heating capacity happens. The actual capacity is considered by multiplying the correction factor according to the equivalent length of the refrigerant piping shown at the table below.

• Cooling capacity correction



• Heating capacity correction



• How to obtain piping equivalent length

- 1 **PUHY, PURY-P200YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bent on the piping) m
- 2 **PU(H)Y, PURY-P250,300YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bent on the piping) m
- 3 **PU(H)Y, PURY-P350YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m
- 4 **PUHY, PURY-P400,500,650YGM**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m

2-4. Correction at frosting and defrosting

Due to frosting at the outdoor heat exchanger and the automatic defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

Table of correction factor

PUHY-P500YGM

Outdoor inlet air temp (°CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.98	0.89	0.86	0.89	0.90	0.92	0.95	0.95	0.95	0.95

PUHY-P650YGM

Ref.: def-ygmp450-500

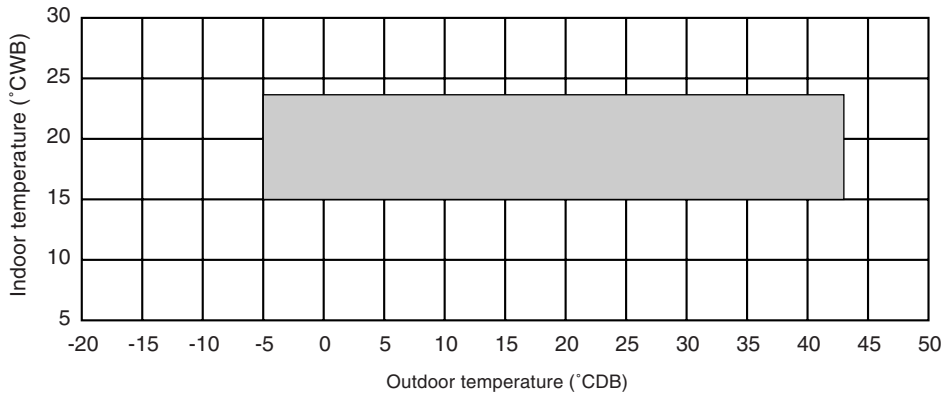
Outdoor inlet air temp (°CWB)	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Correction factor	1.0	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93

Ref.: def-ygmp550-600

V-20-26(R410A)

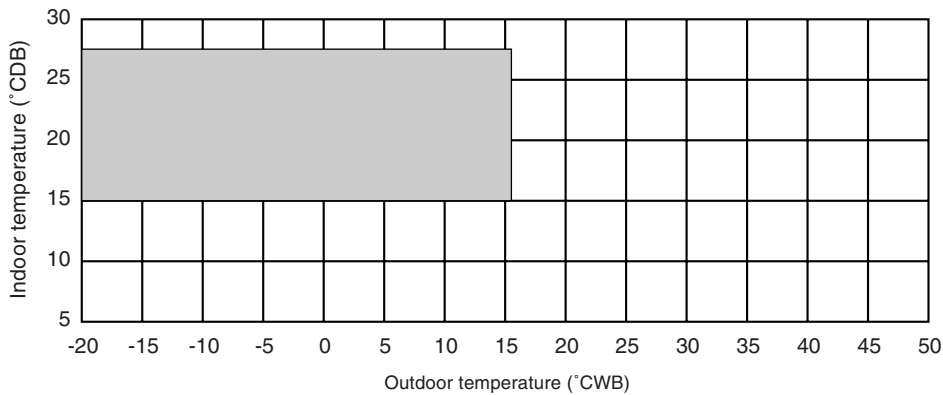
2-5. Operation limit

• Cooling



* The operation temperature of outdoor unit is limited into 0~43°CDB when the outdoor unit is at a position lower than the indoor units.

• Heating

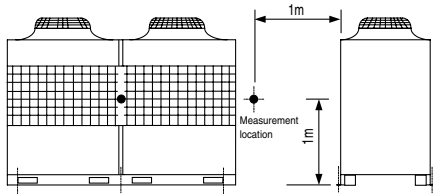


Ref.: ol-ygmhp

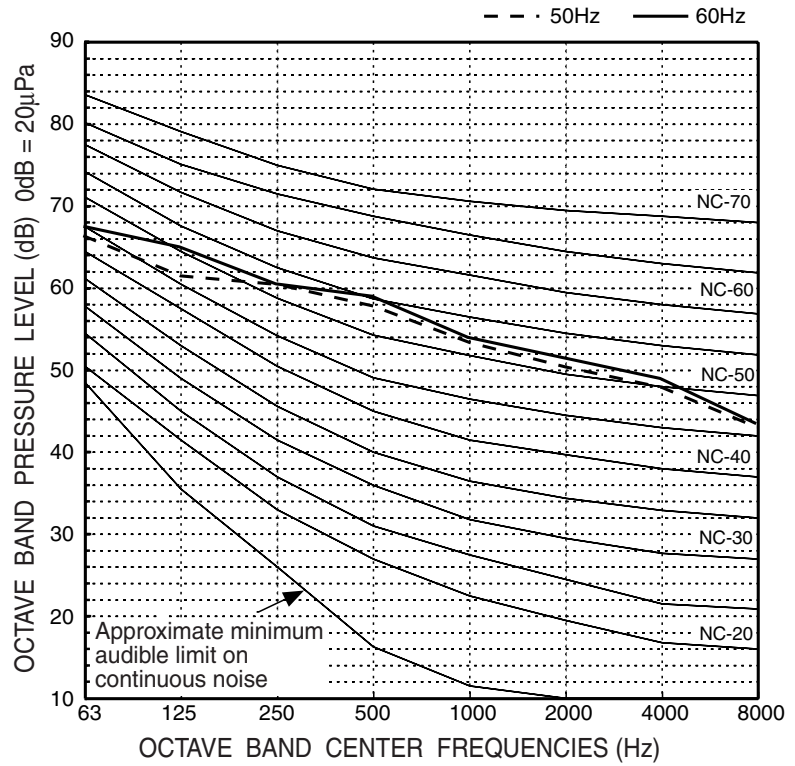
3. Sound Levels

PUHY-P500YGM

Measurement condition



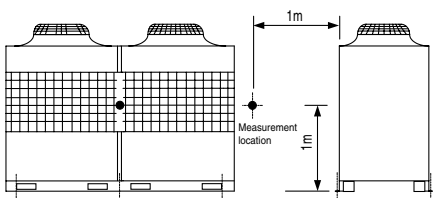
	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
50Hz	67	61.5	60.5	58	53.5	50.5	48	43	60
60Hz	68	65	60.5	59	54	51.5	49	43.5	61



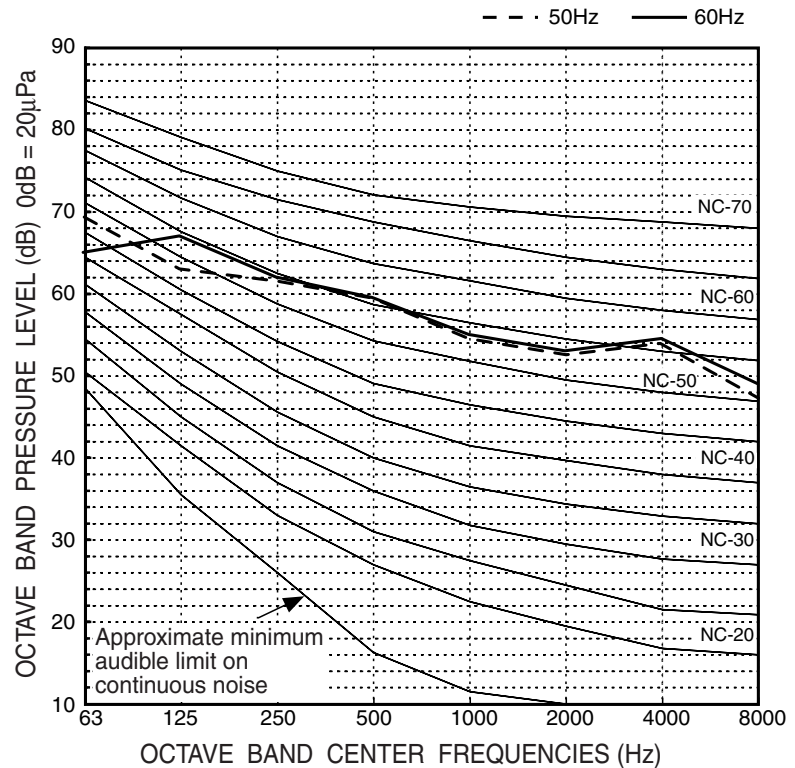
Ref.: h500ygm-WYNB0-3277

PUHY-P650YGM

Measurement condition



	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
50Hz	69.5	63	61.5	59.5	54.5	52.5	54	47	62
60Hz	65	67	62	59.5	55	53	54.5	49	62.5



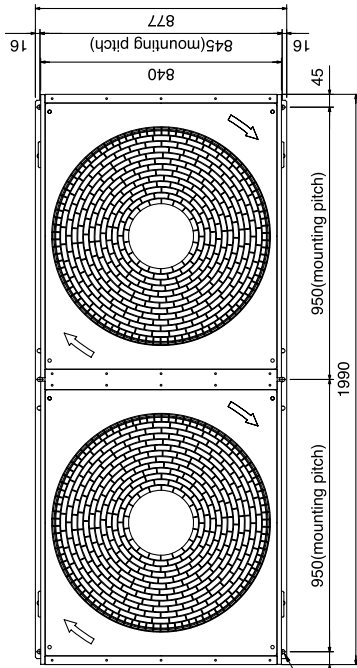
Ref.: h650ygm-WYNB0-3280

Y-20-26(R410A)

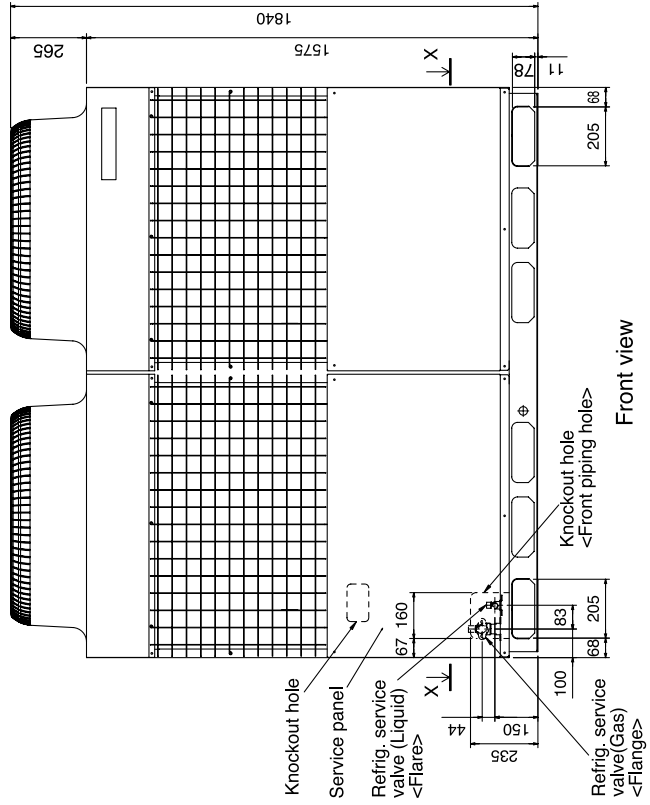
4. External Dimensions

PUHY-P500,650YGM-A(-BS)

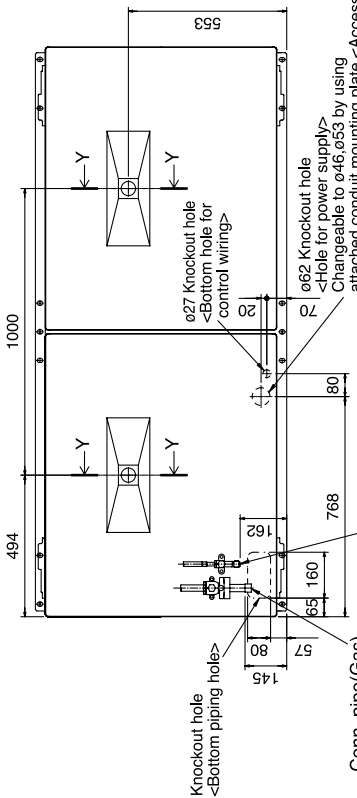
Unit : mm



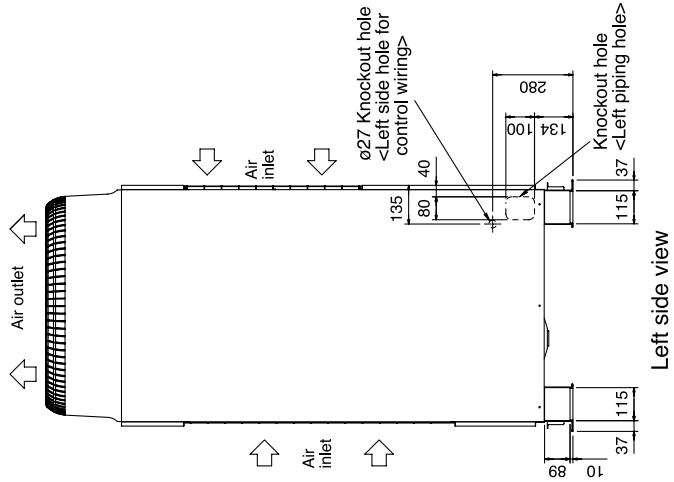
Top view



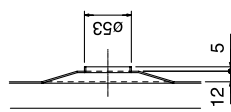
Front view



Cross section X - X



Left side view



Cross section Y - Y

- <Accessories>
- Refrigerant (Gas) conn. pipe...1 pc. (Already installed on the unit)
 - Packing for conn. pipe...1 pc. (Attached near the ball valve)
 - Conduit mounting plate ø53, ø46...1 pc. Each
 - Tapping screw M4...2 pcs.

Note 1. Use the opening at the bottom of the unit when running the power supply line from the front or from the side of the unit.

Note 2. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

Y-20-26(R410A)

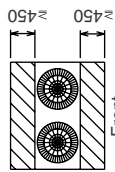
Spacing of PUHY-P500,650YGM-A(-BS)

1.Space required around unit

* In case of single installation

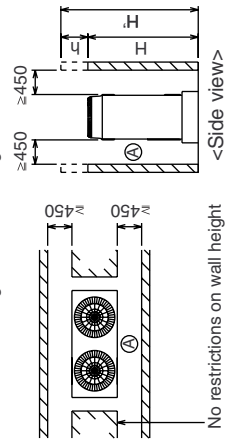
[Basic rules for spacing the unit]

1 Since the service from the back of unit is required, provide the back space 450 mm or above as the front.



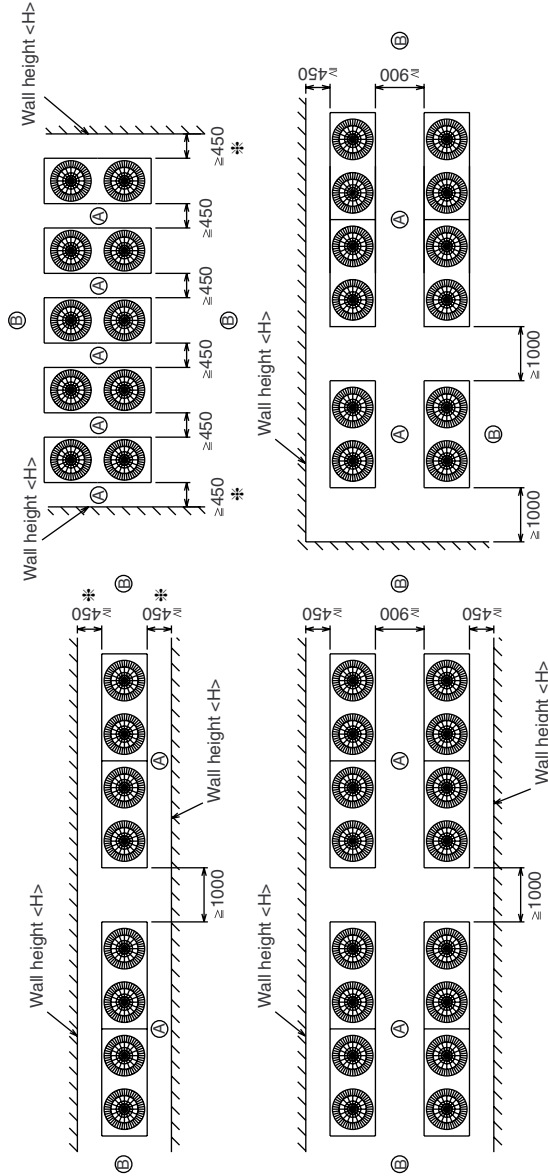
[When inlet air enters from right and left sides of unit]

1 Wall heights <H> of the front and the back sides shall be within total height of unit.
2 When wall height <H> exceeds total height of unit, add <H> dimension to 450 of the following figure.
h=wall height <H> -total height of unit.



* In case of collective installation and continuous installation

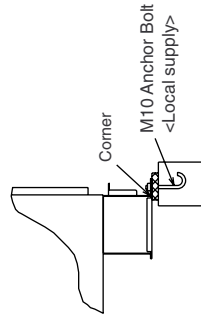
- 1 Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air and people.
- 2 Open in two directions.
- 3 In case of wall height <H> exceeds total height of unit, add <h> dimension (h=wall height <H> -total height of unit) to * marked dimension.
- 4 If there is a wall at both the front and the rear of the unit, install up to three units consecutively in the side direction and provide a space of 1000 mm or more as inlet space/passage space for each three units.



(Unit : mm)
Ⓐ Front
Ⓑ Must be open

2.Foundation work

- 1 When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operation>, piping and wiring routes.
- 2 Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
- 3 When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.



5. Electrical Wiring Diagram

PUHY-P500, 650YGM-A-(BS)

< Symbol explanation >

Symbol	Name
ACCT1	AC Current Sensor
DCCT1	DC Current Sensor
DCL1	DC reactor (Power factor improvement)
52C1	Magnetic contactor (Inverter main circuit)
52C2	Magnetic contactor (No.2 Compressor)
51C2	Overload relay (No.2 Compressor)
52F	Magnetic contactor (Fan motor)
MF3	Fan motor (Radiator panel)
CH1,12	Crank case heater (Compressor)
21S4a,b,c	4-way valve
SV1,3	Solenoid valve (Discharge-suction bypass)
SV5b,c	Solenoid valve (Heat exchanger capacity control)
LEV1	Electronic expansion valve (SC coil)
TH11,12	Discharge pipe temp. detect
TH5	Pipe temp.detect (hex outlet)
TH6	OA temp.detect
TH7	liquid outlet temp.detect at Sub-cool coil
TH8	bypass outlet temp.detect at Sub-cool coil
THHS1	Radiator panel temp. detect
63H1,2	High pressure switch
63HS	High pressure sensor
63LS	Low pressure sensor
L1,L2	Choke coil (Transmission)
Z20	Function device
⊕	Earth terminal

*1: Function according to switch operation.
(SW4-7:CN3D 1-2P and CN3D 1-3P)
SW4-7:OFF (Compressor ON/OFF and NIGHT MODE)

CN3D 1-3P	Compressor ON/OFF	CN3D NIGHT MODE
OPEN	ON	OPEN OFF
SHORT	OFF	SHORT ON

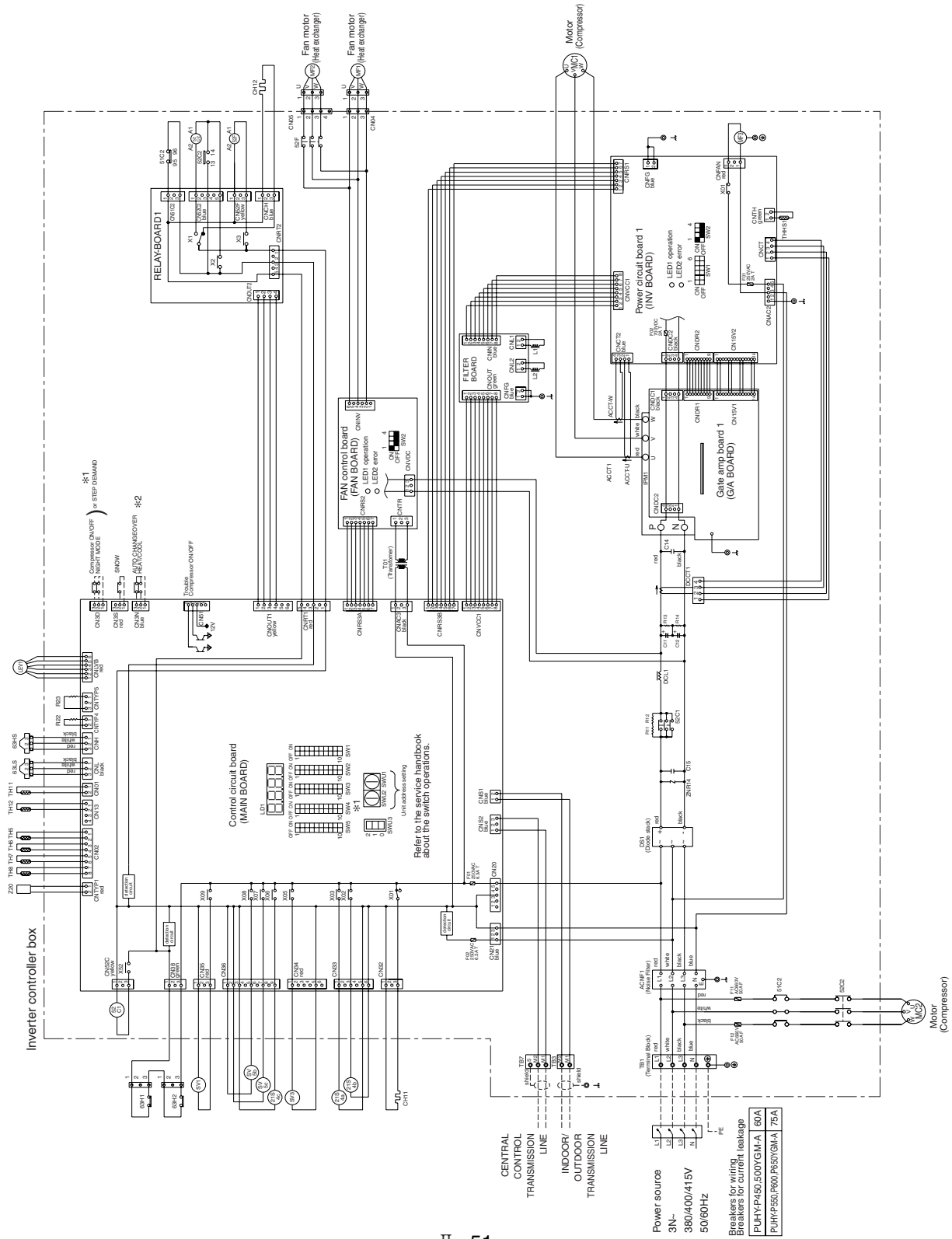
SW4-7:ON (STEP DEMAND)

CN3D 1-2P	OPEN	SHORT
CN3D 1-3P	OPEN 100%	75%
	SHORT	0%
		50%

*2:Auto changeover (CN3N 1-2P,1-3P)

CN3N 1-3P	CN3N 1-2P	OPEN	SHORT
OPEN	Auto changeover:OFF	-	-
SHORT	Auto changeover:ON	COOL	HEAT

NOTE:The broken lines indicate field wiring.



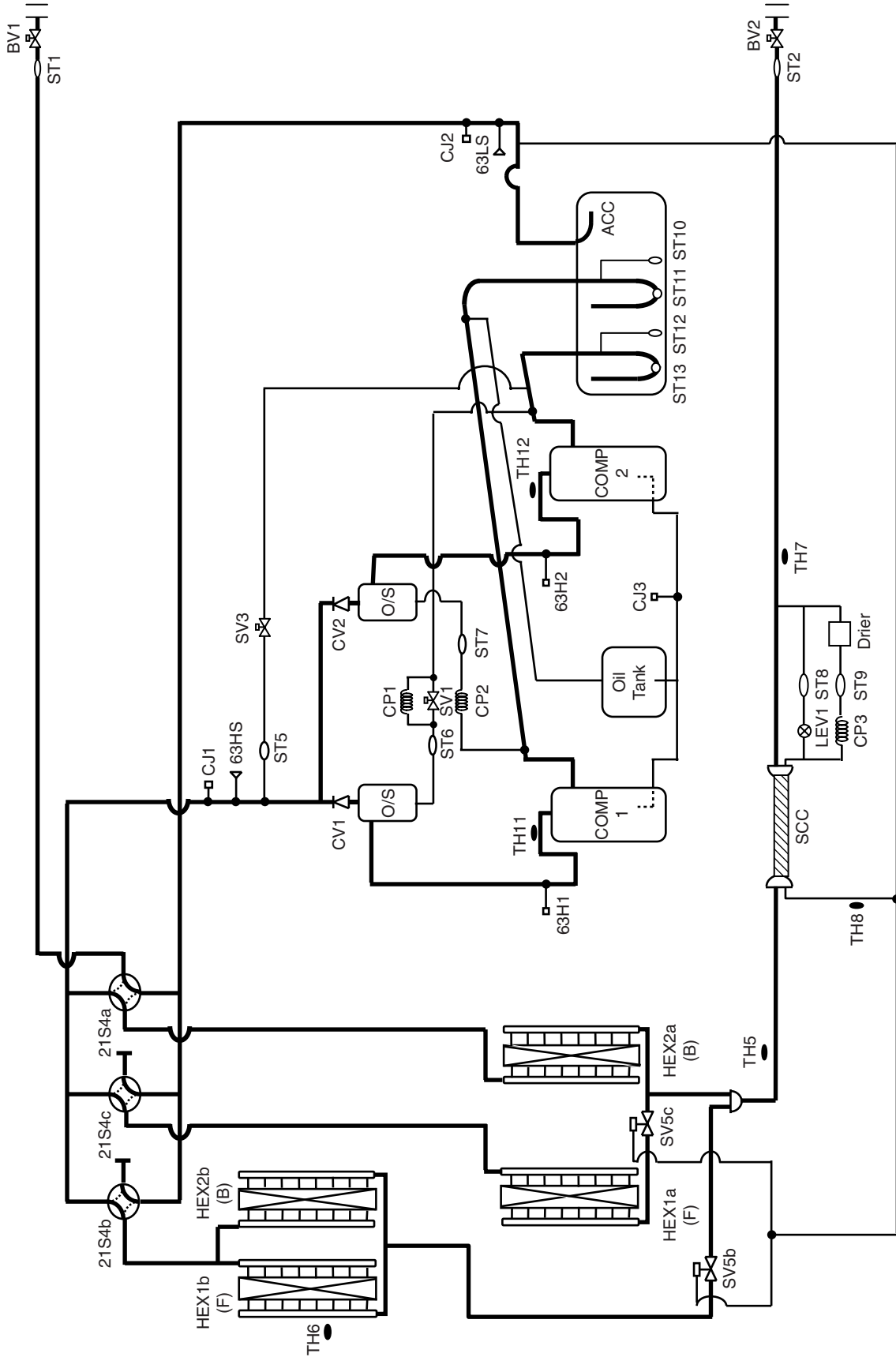
Y-20-26(R410A)

Ref: Y-p450-650ygm-w27429

6. Refrigerant Circuit Diagram And Thermal Sensor

PUHY-P500, 650YGM-A(-BS)

Y-20-26(R410A)



Ref: rcd-450-650gmhp