

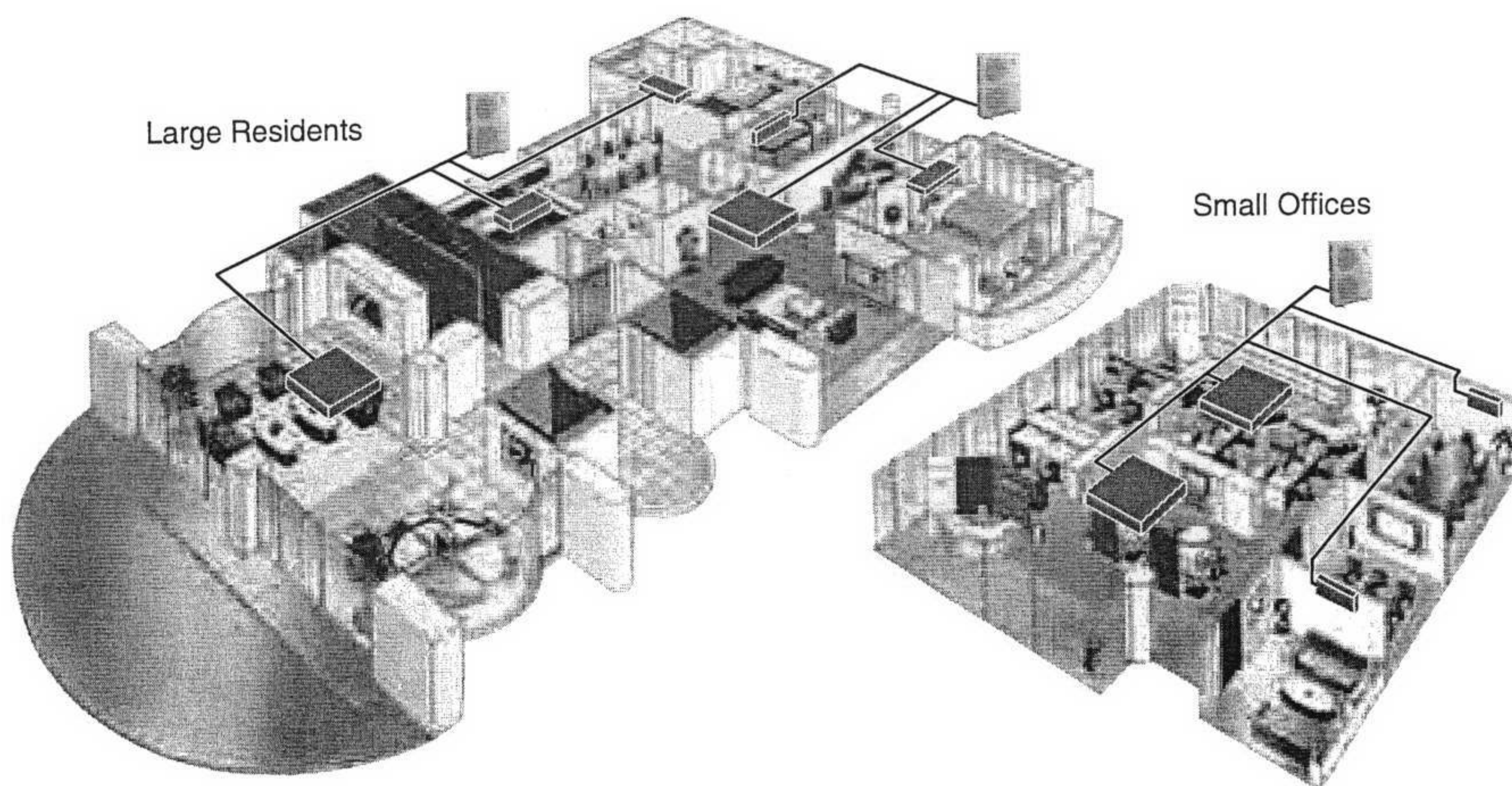
CITY MULTI™ OUTDOOR UNITS

S SERIES

S SERIES

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Heat pump: PUMY-P-YHM

3-phase 4-wire 380-400-415V/50Hz	100	125	140
	4HP	5HP	6HP
S Heat pump	●	●	●

Heat pump: PUMY-P-VHM

1-phase 2-wire 220-230-240V/50Hz 220V/60Hz	100	125	140
	4HP	5HP	6HP
S Heat pump	●	●	●

1. SPECIFICATIONS

R410A Data G3

Model			PUMY-P100VHM	 PUMY-P125VHM	
Power source			1-phase 220-230-240V 50Hz, 1-phase 220V 60Hz		
Cooling capacity (Nominal)	※1	kW	11.2	14.0	
		kcal / h	9,600	12,000	
		Btu / h	38,200	47,800	
		※2	kcal / h	10,000	12,500
	Power input		kW	3.34	4.32
	Current input		A	15.4-14.8-14.1, 15.4	20.0-19.1-18.3, 20.0
	COP (kW / kW)		3.35		3.24
Temp. range of cooling	Indoor	W.B.	15 ~ 24°C (59 ~ 75°F)		
	Outdoor	D.B.	- 5 ~ 46°C (23 ~ 115°F)		
			10 to 46°C D.B. (50 to 115°F D.B.) : in case of connecting PKFY-P20 / P25 type indoor unit.		
Heating capacity (Nominal)	※3	kW	12.5	16.0	
		kcal / h	10,800	13,800	
		Btu / h	42,700	54,600	
	Power input		kW	3.66	4.33
	Current input		A	16.9-16.2-15.5, 16.9	20.0-19.1-18.3, 20.0
	COP (kW / kW)		3.42		3.69
Temp. range of heating	Indoor temp.	D.B.	15 ~ 27°C (59 ~ 81°F)		
	Outdoor temp.	W.B.	-15 ~ 15°C (5 ~ 59°F)		
Indoor unit connectable	Total capacity		50 ~ 130% of outdoor unit capacity		
	Model / Quantity		P20 ~ P125 / 1 ~ 6	P20 ~ P140 / 1 ~ 8	
Noise level (measured in anechoic room)	dB <A>		49 / 51	50 / 52	
Diameter of refrigerant pipe	Liquid (High press.)	mm (in.)	ø9.52 (ø3/8") Liquid	ø9.52 (ø3/8") Liquid	
	Gas (Low press.)	mm (in.)	ø15.88 (ø5/8") Gas	ø15.88 (ø5/8") Gas	

External finish			Galvanized steel sheet <MUNSELL 3Y 7.8/1.1>		
External dimension H x W x D		mm	1,350 x 950 x 330	1,350 x 950 x 330	
		in.	53-3/16" x 37-7/16" x 13"	53-3/16" x 37-7/16" x 13"	
Net weight		kg (lb)	127 (280 lb)	127 (280 lb)	
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	
Compressor	Type		Inverter scroll hermetic comp.	Inverter scroll hermetic comp.	
	Manufacturer		MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		
	Motor output	kW	2.2	2.9	
	Case heater	kW	-	-	
	Lubricant		MEL56 x 2.3 L	MEL56 x 2.3 L	
FAN	Air flow rate	m³ / min	100	100	
		L / s	1667	1667	
		cfm	3532	3532	
	External static press.		0 Pa	0 Pa	
	Type x Quantity		Propeller fan x 2	Propeller fan x 2	
	Control, Driving mechanism		DC-control, Direct-driven by motor	DC-control, Direct-driven by motor	
	Motor output	kW	0.06 x 2	0.06 x 2	
	HIC circuit (HIC: Heat Inter-Changer)			-	
Protection	High pressure protection		High pressure sensor, High pressure switch 4.15 MPa		
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection		
	Compressor		Discharge thermo protection, Over-current protection		
	Fan motor		Over-heat protection, Voltage protection		
Defrosting method			Auto-defrost mode (Reversed refrigerant circle)		
Refrigerant	Type x Original charge		R410A x 8.5kg (19 lb)	R410A x 8.5kg (19 lb)	
	Control		LEV circuit		
Drawing	External		VHM-BK01-B434		
	Wiring		VHM-RG79-V221		
	Refrigerant circle		RC_VBN-050092		
Standard attachment	Document		Installation Manual		
	Accessory		Grounded lead wire x 2		
Optional parts			Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E	Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E	
Remark			In case of connecting All fresh air type indoor unit PEFY-P-VHM-E-F, only one indoor unit can be connected with one PUMY. Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.		

Note :	*1 Nominal cooling conditions	*2 Nominal cooling conditions	*3 Nominal heating conditions	Unit converter
	Indoor : 27°CDB/19°CWB (81°FDB/66°FWB)	27°CDB/19.5°CWB (81°FDB/67°FWB)	20°CDB (68°FDB)	kcal/h = kW x 860
	Outdoor : 35°CDB (95°FDB)	35°CDB (95°FDB)	7°CDB/6°CWB (45°FDB/43°FWB)	Btu/h = kW x 3,412
	Pipe length : 7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)	cfm = m³/min x 35.31
	Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lb = kg / 0.4536
* Nominal conditions *1, *3 are subject to JIS B8615-1.				*Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.				

Ref. : Spec_s_p100_125VHM

1. SPECIFICATIONS

R410A Data G3

Model			PUMY-P100YHM	PUMY-P125YHM	
Power source			3-phase 4-wire 380-400-415V 50Hz		
Cooling capacity (Nominal)	※1	kW	11.2	14.0	
		kcal / h	9,600	12,000	
		Btu / h	38,200	47,800	
		※2	kcal / h	-	12,500
	Power input		kW	3.30	4.27
	Current input		A	5.28-5.02-4.84	6.83-6.49-6.26
	COP (kW / kW)		3.39		3.28
Temp. range of cooling	Indoor	W.B.	15 ~ 24°C (59 ~ 75°F)		
	Outdoor	D.B.	- 5 ~ 46°C (23 ~ 115°F)		
			10 to 46°C D.B. (50 to 115°F D.B.) : in case of connecting PKFY-P20/P25 type indoor unit.		
Heating capacity (Nominal)	※3	kW	12.5	16.0	
		kcal / h	10,800	13,800	
		Btu / h	42,700	54,600	
	Power input		kW	3.63	4.29
	Current input		A	5.81-5.52-5.32	6.87-6.52-6.29
	COP (kW / kW)		3.44		3.73
Temp. range of heating	Indoor temp.	D.B.	15 ~ 27°C (59 ~ 81°F)		
	Outdoor temp.	W.B.	-15 ~ 15°C (5 ~ 59°F)		
Indoor unit connectable	Total capacity		50 ~ 130% of outdoor unit capacity		
	Model / Quantity		P20 ~ P125 / 1 ~ 6	P20 ~ P140 / 1 ~ 8	
Noise level (measured in anechoic room)	dB <A>		49 / 51	50 / 52	
Diameter of refrigerant pipe	Liquid (High press.)	mm (in.)	ø9.52 (ø3/8") Flare	ø9.52 (ø3/8") Flare	
	Gas (Low press.)	mm (in.)	ø15.88 (ø5/8") Flare	ø15.88 (ø5/8") Flare	

External finish			Galvanized steel sheet <MUNSELL 3Y 7.8/1.1>			
External dimension H x W x D		mm	1,350 x 950 x 330		1,350 x 950 x 330	
		in.	53-3/16" x 37-7/16" x 13"		53-3/16" x 37-7/16" x 13"	
Net weight		kg (lb)	140 (309)		140 (309)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Compressor	Type		Inverter scroll hermetic comp.		Inverter scroll hermetic comp.	
	Manufacturer		MITSUBISHI ELECTRIC CORPORATION			
	Starting method		Inverter			
	Motor output	kW	1.9		2.4	
	Case heater	kW	-		-	
	Lubricant		MEL56		MEL56	
FAN	Air flow rate	m³ / min	100		100	
		L / s	1667		1667	
		cfm	3532		3532	
		External static press.		0 Pa		0 Pa
	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Control, Driving mechanism		DC-control, Direct-driven by motor		DC-control, Direct-driven by motor	
	Motor output	kW	0.06 x 2		0.06 x 2	
	HIC circuit (HIC: Heat Inter-Changer)			-		
Protection	High pressure protection		High pressure sensor, High pressure switch 4.15 MPa			
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection			
	Compressor		Discharge thermo protection, Over-current protection			
	Fan motor		Over-heat protection, Voltage protection			
Defrosting method			Auto-defrost mode (Reversed refrigerant circle)			
Refrigerant	Type x Original charge		R410A x 8.5kg (19 lb)		R410A x 8.5kg (19 lb)	
	Control		LEV circuit			
Drawing	External		YHM-BK01-B328			
	Wiring		YHM-RG79-V020			
	Refrigerant circle		RC_VBN-050092			
Standard attachment	Document		Installation Manual			
	Accessory		Grounded lead wire x 2			
Optional parts			Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E		Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E	
Remark			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

Note :	*1 Nominal cooling conditions	*2 Nominal cooling conditions	*3 Nominal heating conditions	Unit converter
	Indoor : 27°CDB/19°CWB (81°FDB/66°FWB)	27°CDB/19.5°CWB (81°FDB/67°FWB)	20°CDB (68°FDB)	kcal/h = kW x 860
	Outdoor : 35°CDB (95°FDB)	35°CDB (95°FDB)	7°CDB/6°CWB (45°FDB/43°FWB)	Btu/h = kW x 3,412
	Pipe length : 7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)	cfm = m³/min x 35.31
	Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lb = kg / 0.4536
* Nominal conditions *1, *3 are subject to JIS B8815-1. * Due to continuing improvement, above specifications may be subject to change without notice.				*Above specification data is subject to rounding variation.

Ref.: Spec_s_p100_125YHM

1. SPECIFICATIONS

R410A Data G3

Model			PUMY-P140YHM	
Power source			3-phase 4-wire 380-400-415V 50Hz	
Cooling capacity (Nominal)	*1	kW	15.5	
	*1	kcal / h	13,300	
	*1	Btu / h	52,900	
	*2	kcal / h	14,000	
	Power input		kW	5.32
	Current input		A	8.51-8.09-7.80
	COP (kW / kW)		2.91	
Temp. range of cooling	Indoor	W.B.	15 ~ 24°C (59 ~ 75°F)	
	Outdoor	D.B.	- 5 ~ 46°C (23 ~ 115°F)	
10 to 46°C D.B. (50 to 115°F D.B.) : in case of connecting PKFY-P20/P25 type indoor unit.				
Heating capacity (Nominal)	*3	kW	18.0	
	*3	kcal / h	15,500	
	*3	Btu / h	61,400	
	Power input		kW	5.32
	Current input		A	8.51-8.09-7.80
	COP (kW / kW)		3.38	
Temp. range of heating	Indoor temp.	D.B.	15 ~ 27°C (59 ~ 81°F)	
	Outdoor temp.	W.B.	-15 ~ 15°C (5 ~ 59°F)	
Indoor unit connectable	Total capacity		50 ~ 130% of outdoor unit capacity	
	Model / Quantity		P20 ~ P140 / 1 ~ 8	
Noise level (measured in anechoic room)	dB <A>		51 / 53	
Diameter of refrigerant pipe	Liquid (High press.)	mm (in.)	ø9.52 (ø3/8") Flare	
	Gas (Low press.)	mm (in.)	ø15.88 (ø5/8") Flare	

External finish			Galvanized steel sheet <MUNSELL 3Y 7.8/1.1>		
External dimension H x W x D		mm	1,350 x 950 x 330		
		in.	53-3/16" x 37-7/16" x 13"		
Net weight		kg (lb)	140 (309)		
Heat exchanger			Salt-resistant cross fin & copper tube		
Compressor	Type		Inverter scroll hermetic comp.		
	Manufacturer		MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		
	Motor output	kW	2.9		
	Case heater	kW	-		
	Lubricant		MEL56		
FAN	Air flow rate	m³ / min	100		
		L / s	1667		
		cfm	3532		
	External static press.		0 Pa		
	Type x Quantity		Propeller fan x 2		
	Control, Driving mechanism		DC-control, Direct-driven by motor		
	Motor output	kW	0.06 x 2		
	HIC circuit (HIC: Heat Inter-Changer)			-	
Protection	High pressure protection		High pressure sensor, High pressure switch 4.15 MPa		
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection		
	Compressor		Discharge thermo protection, Over-current protection		
	Fan motor		Over-heat protection, Voltage protection		
Defrosting method			Auto-defrost mode (Reversed refrigerant circle)		
Refrigerant	Type x Original charge		R410A x 8.5kg (19 lb)		
	Control		LEV circuit		
Drawing	External		YHM-BK01-B328		
	Wiring		YHM-RG79-V020		
	Refrigerant circle		RC_VBN-050092		
Standard attachment	Document		Installation Manual		
	Accessory		Grounded lead wire x 2		
Optional parts			Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E		
Remark			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.		

Note :	*1 Nominal cooling conditions	*2 Nominal cooling conditions	*3 Nominal heating conditions	Unit converter
	Indoor : 27°CDB/19°CWB (81°FDB/66°F WB)	27°CDB/19.5°CWB (81°FDB/67°F WB)	20°CDB (68°FDB)	kcal/h = kW x 860
	Outdoor : 35°CDB (95°FDB)	35°CDB (95°FDB)	7°CDB/6°CWB (45°FDB/43°F WB)	Btu/h = kW x 3,412
	Pipe length : 7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)	cfm = m³/min x 35.31
	Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lb = kg / 0.4536
* Nominal conditions *1, *3 are subject to JIS B8615-1.				*Above specification data is subject to rounding variation.
* Due to continuing improvement, above specifications may be subject to change without notice.				

Ref. : Spec_s_p140YHM

1. SPECIFICATIONS

R410A Data G3

Model			PUMY-P140VHM		
Power source			1-phase 220-230-240V 50Hz, 1-phase 220V 60Hz		
Cooling capacity (Nominal)	*1	kW	15.5		
	*1	kcal / h	13,300		
	*1	Btu / h	52,900		
	*2	kcal / h	14,000		
	Power input		kW	5.35	
	Current input		A	24.7-23.6-22.7, 24.7	
	COP (kW / kW)		2.9		
Temp. range of cooling	Indoor	W.B.	15 ~ 24°C (59 ~ 75°F)		
	Outdoor	D.B.	- 5 ~ 46°C (23 ~ 115°F)		
	10 to 46°C D.B. (50 to 115°F D.B.) : in case of connecting PKFY-P20/P25 type indoor unit.				
Heating capacity (Nominal)	*3	kW	18.0		
	*3	kcal / h	15,500		
	*3	Btu / h	61,400		
	Power input		kW	5.58	
	Current input		A	25.8-24.7-23.6, 25.8	
	COP (kW / kW)		3.23		
Temp. range of heating	Indoor temp.	D.B.	15 ~ 27°C (59 ~ 81°F)		
	Outdoor temp.	W.B.	-15 ~ 15°C (5 ~ 59°F)		
Indoor unit connectable	Total capacity		50 ~ 130% of outdoor unit capacity		
	Model / Quantity		P20 ~ P140 / 1 ~ 8		
Noise level (measured in anechoic room)	dB <A>		51 / 53		
Diameter of refrigerant pipe	Liquid (High press.)	mm (in.)	ø9.52 (ø3/8") Liquid		
	Gas (Low press.)	mm (in.)	ø15.88 (ø5/8") Gas		

External finish			Galvanized steel sheet <MUNSELL 3Y 7.8/1.1>		
External dimension H x W x D		mm	1,350 x 950 x 330		
		in.	53-3/16" x 37-7/16" x 13"		
Net weight		kg (lb)	127 (280 lb)		
Heat exchanger			Salt-resistant cross fin & copper tube		
Compressor	Type		Inverter scroll hermetic comp.		
	Manufacturer		MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		
	Motor output	kW	3.3		
	Case heater	kW	-		
	Lubricant		MEL56 x 2.3L		
	FAN	Air flow rate	m³ / min	100	
L / s			1667		
cfm			3532		
External static press.		0 Pa			
Type x Quantity		Propeller fan x 2			
Control, Driving mechanism		DC-control, Direct-driven by motor			
Motor output		kW	0.06 x 2		
HIC circuit (HIC: Heat Inter-Changer)			-		
Protection	High pressure protection		High pressure sensor, High pressure switch 4.15 MPa		
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection		
	Compressor		Discharge thermo protection, Over-current protection		
	Fan motor		Over-heat protection, Voltage protection		
Defrosting method			Auto-defrost mode (Reversed refrigerant circle)		
Refrigerant	Type x Original charge		R410A x 8.5kg (19 lb)		
	Control		LEV circuit		
Drawing	External		VHM-BK01-B434		
	Wiring		VHM-RG79-V221		
	Refrigerant circle		RC_VBN-050092		
Standard attachment	Document		Installation Manual		
	Accessory		Grounded lead wire x 2		
Optional parts			Joint: CMY-Y62-G-E Header:CMY-Y64/68-G-E		
Remark			In case of connecting All fresh air type indoor unit PEFY-P-VHM-E-F, only one indoor unit can be connected with one PUMY. Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.		

Note :	*1 Nominal cooling conditions	*2 Nominal cooling conditions	*3 Nominal heating conditions	Unit converter
	Indoor : 27°CDB/19°CWB (81°FDB/66°F WB)	27°CDB/19.5°CWB (81°FDB/67°F WB)	20°CDB (68°FDB)	kcal/h = kW x 860
	Outdoor : 35°CDB (95°FDB)	35°CDB (95°FDB)	7°CDB/6°CWB (45°FDB/43°F WB)	Btu/h = kW x 3,412
	Pipe length : 7.5 m (24-9/16 ft)	5 m (16-3/8 ft)	7.5 m (24-9/16 ft)	cfm = m³/min x 35.31
	Level difference : 0 m (0 ft)	0 m (0 ft)	0 m (0 ft)	lb = kg / 0.4536
* Nominal conditions *1, *3 are subject to JIS B8615-1.				
* Due to continuing improvement, above specifications may be subject to change without notice.				
*Above specification data is subject to rounding variation.				

Ref. : Spec_s_p140VHM

2. CAPACITY TABLES

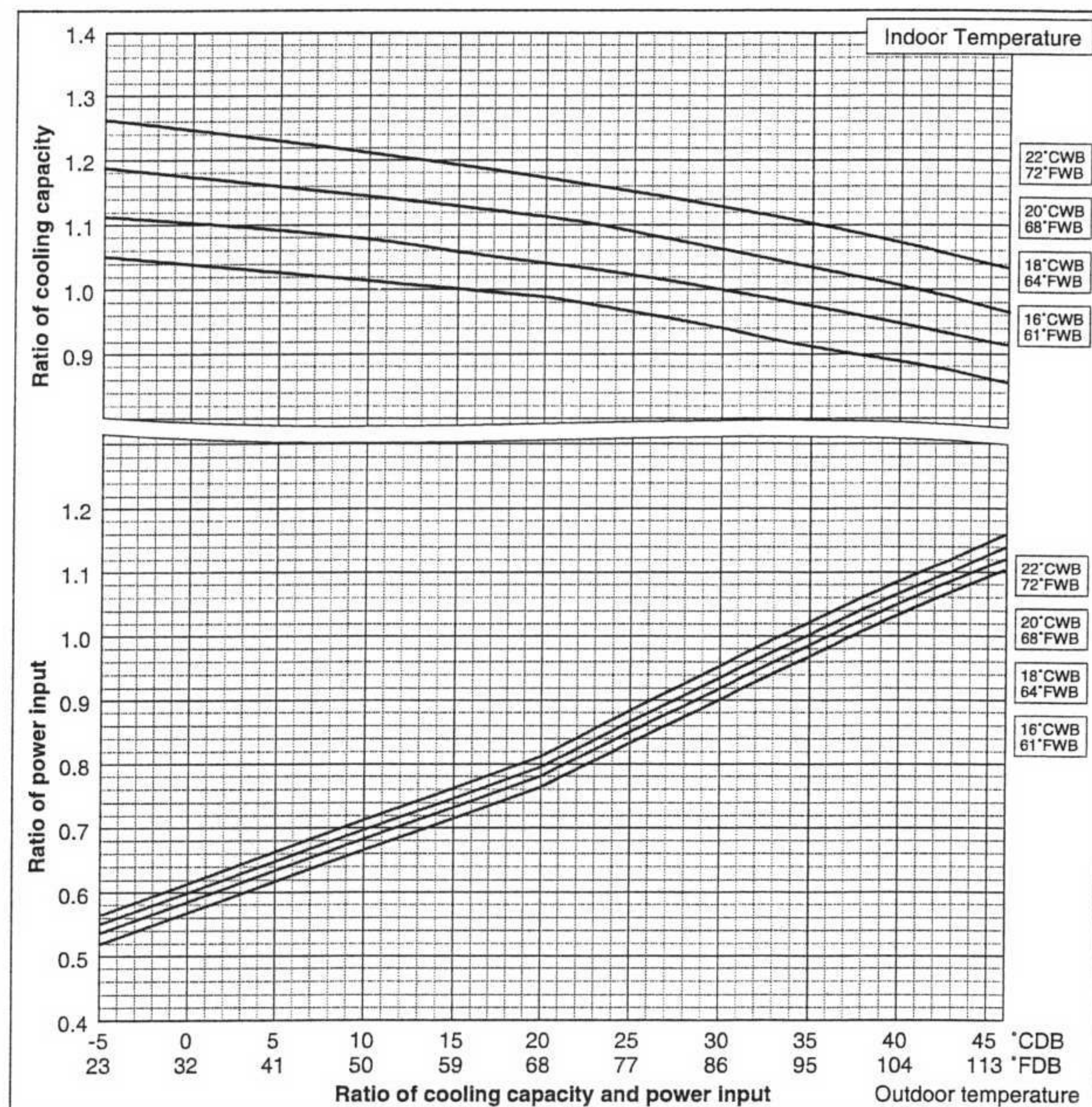
R410A Data G3

2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

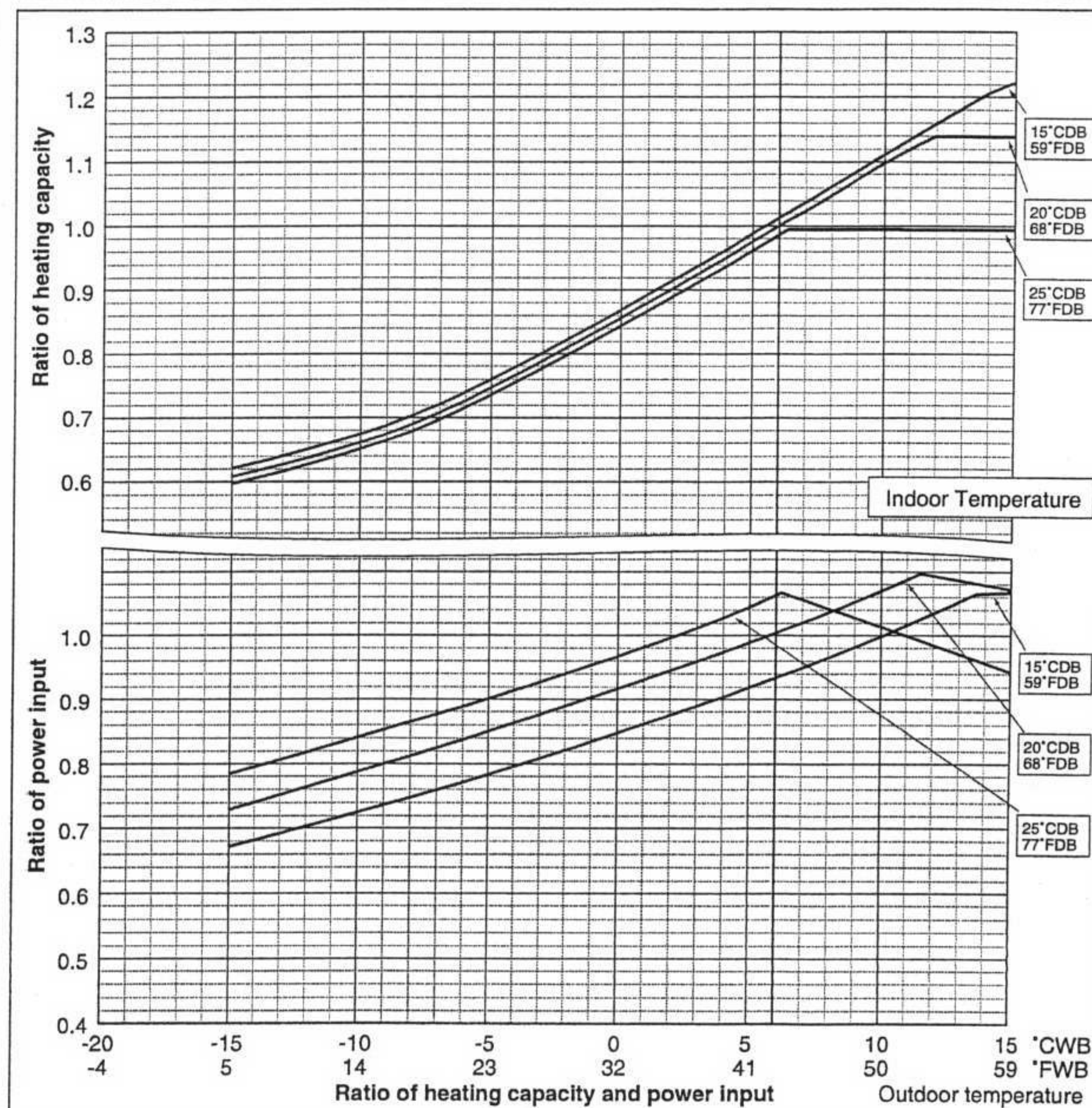
	PUMY-	P100YHM	P125YHM
Nominal Cooling Capacity	kW	11.2	14.0
	kcal/h	9,600	12,000
	Btu/h	38,200	47,800
Input	kW	3.30	4.27

	PUMY-	P140YHM
Nominal Cooling Capacity	kW	15.5
	kcal/h	13,300
	Btu/h	52,900
Input	kW	5.32



	PUMY-	P100YHM	P125YHM
Nominal Heating Capacity	kW	12.5	16.0
	kcal/h	10,800	13,800
	Btu/h	42,700	54,600
Input	kW	3.63	4.29

	PUMY-	P140YHM
Nominal Heating Capacity	kW	18.0
	kcal/h	15,500
	Btu/h	61,400
Input	kW	5.32



Ref:cbt_p100-140

2. CAPACITY TABLES

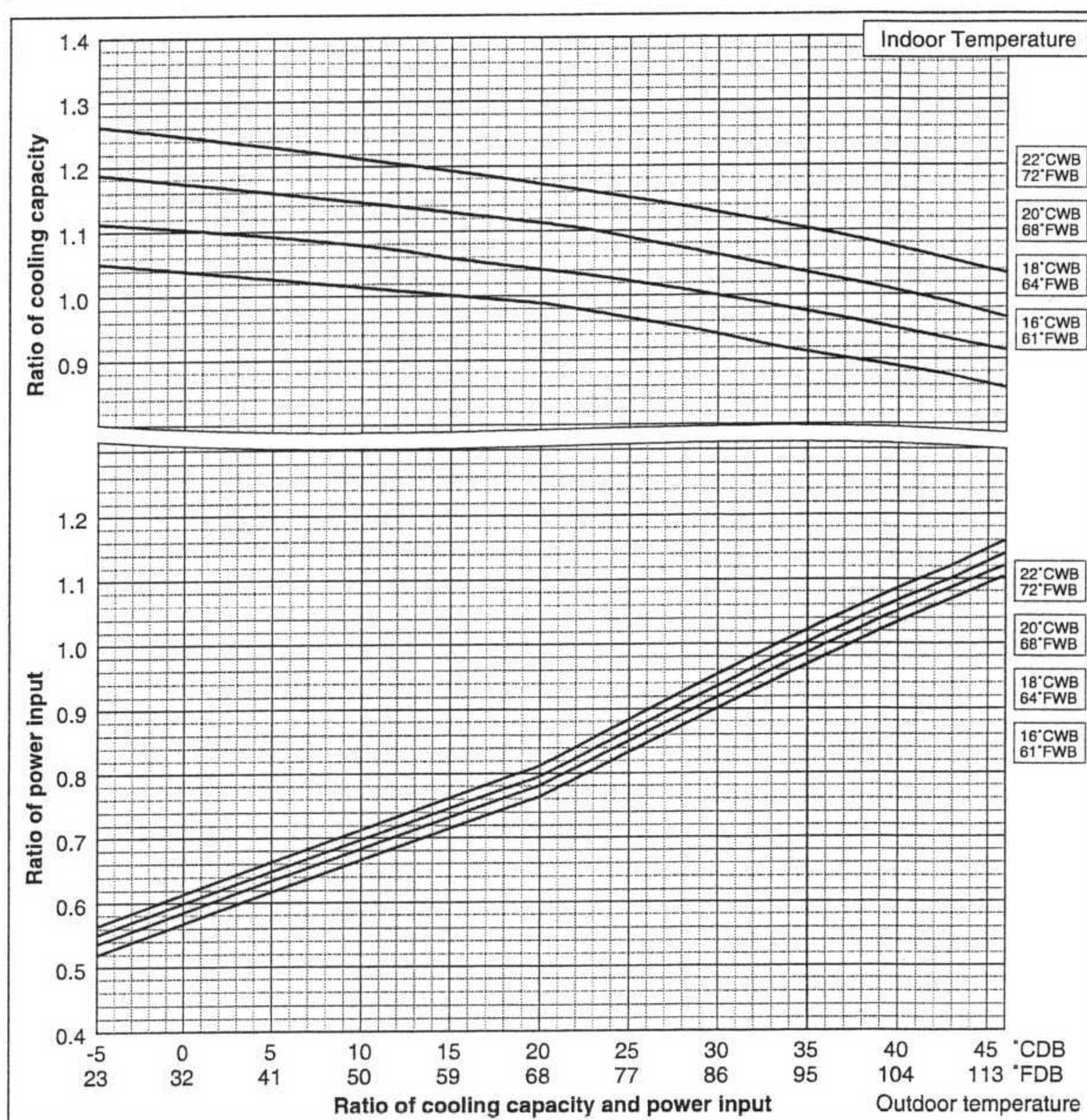
R410A Data G3

2-1. Correction by temperature

CITY MULTI™ could have varied capacity at different designing temperature. Using the nominal cooling/heating capacity value and the ratio below, the capacity can be observed at various temperature.

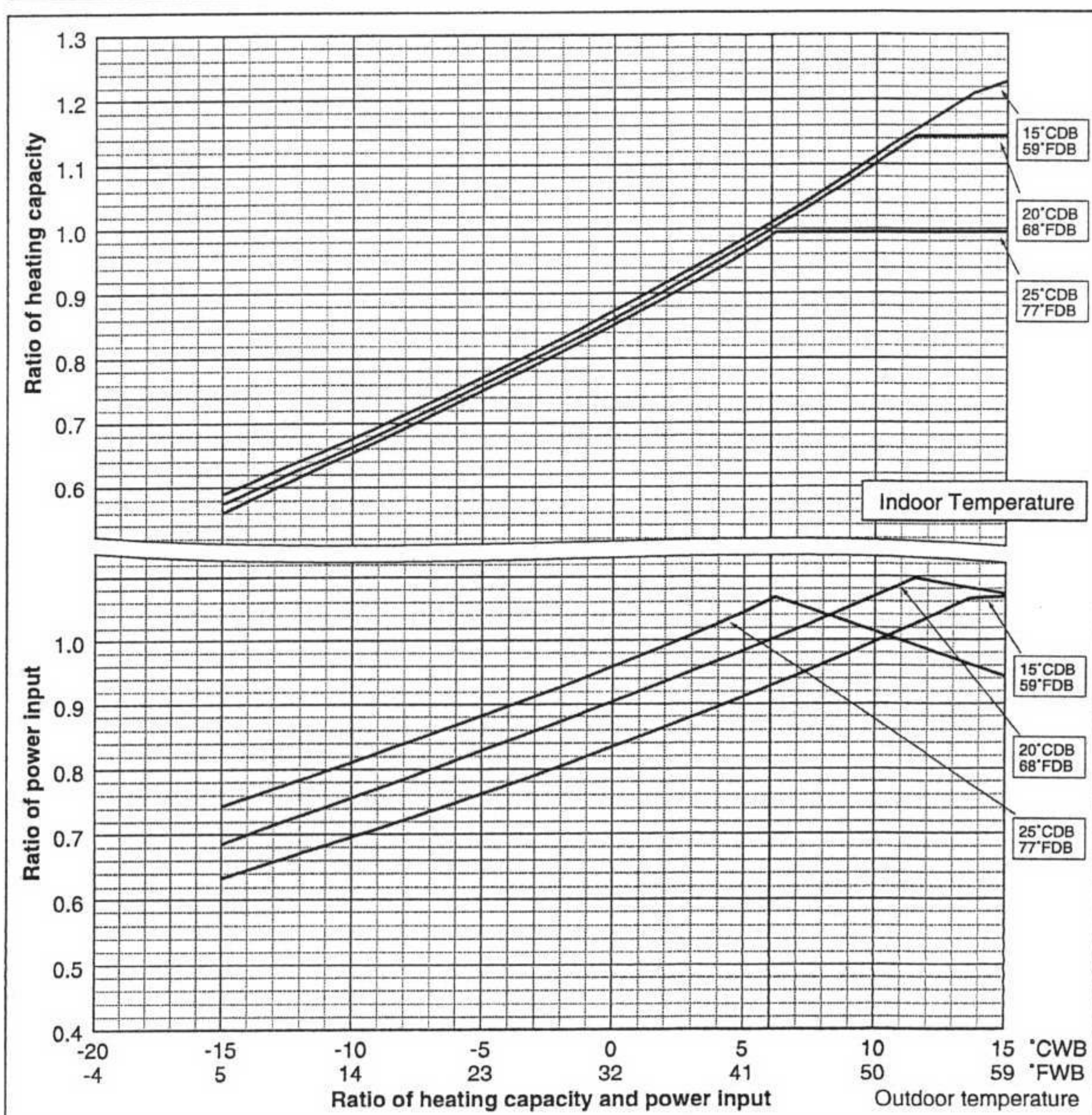
PUMY-		P100VHM	P125VHM
Nominal Cooling Capacity	kW	11.2	14.0
	kcal/h	9,600	12,000
	Btu/h	38,200	47,800
Input	kW	3.34	4.32

PUMY-		P140VHM
Nominal Cooling Capacity	kW	15.5
	kcal/h	13,300
	Btu/h	52,900
Input	kW	5.35



PUMY-		P100VHM	P125VHM
Nominal Heating Capacity	kW	12.5	16.0
	kcal/h	10,800	13,800
	Btu/h	42,700	54,600
Input	kW	3.66	4.33

PUMY-		P140VHM
Nominal Heating Capacity	kW	18.0
	kcal/h	15,500
	Btu/h	61,400
Input	kW	5.58



Ref:cbt_p100-140

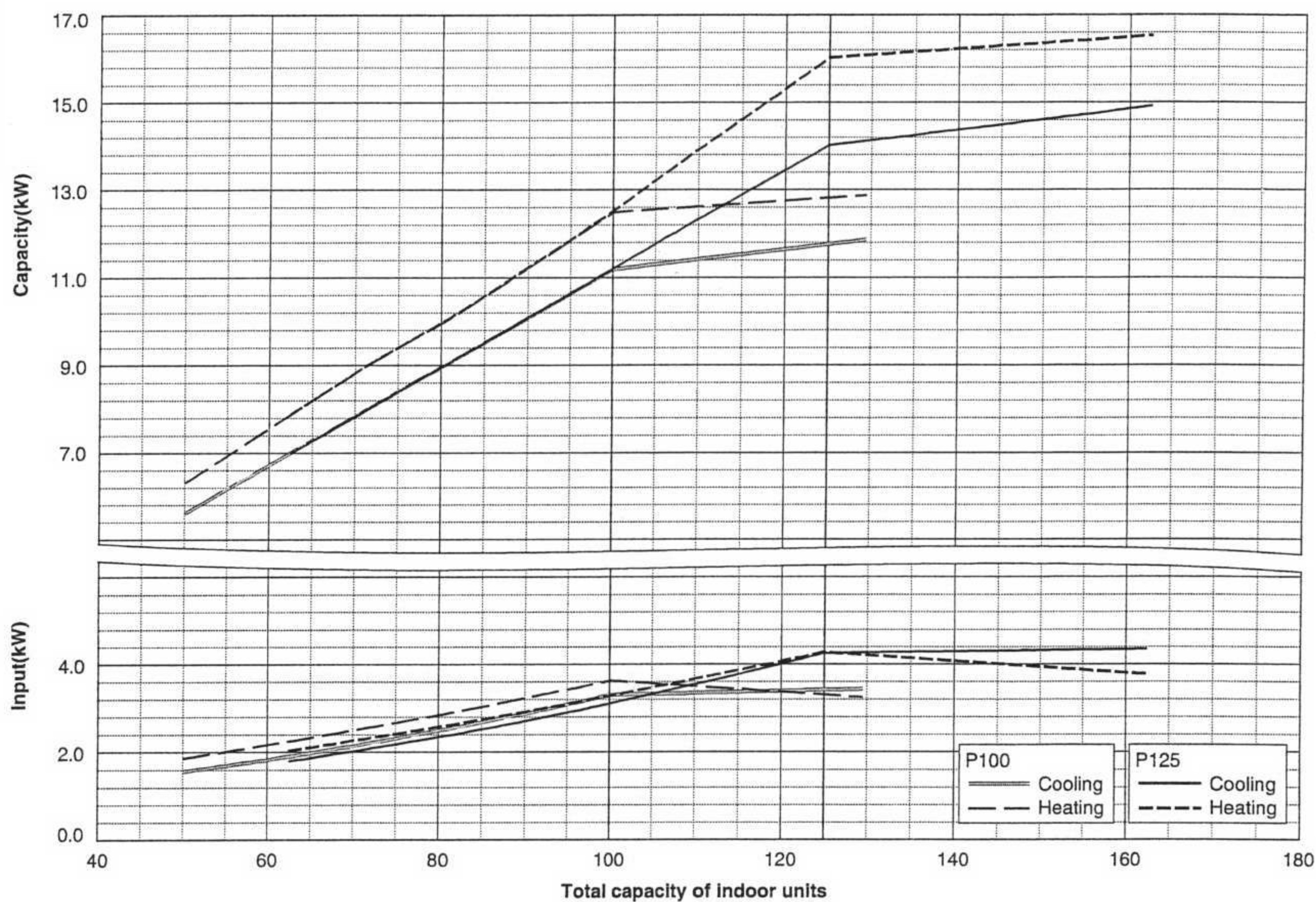
2. CAPACITY TABLES

R410A Data G3

2-2. Correction by total indoor

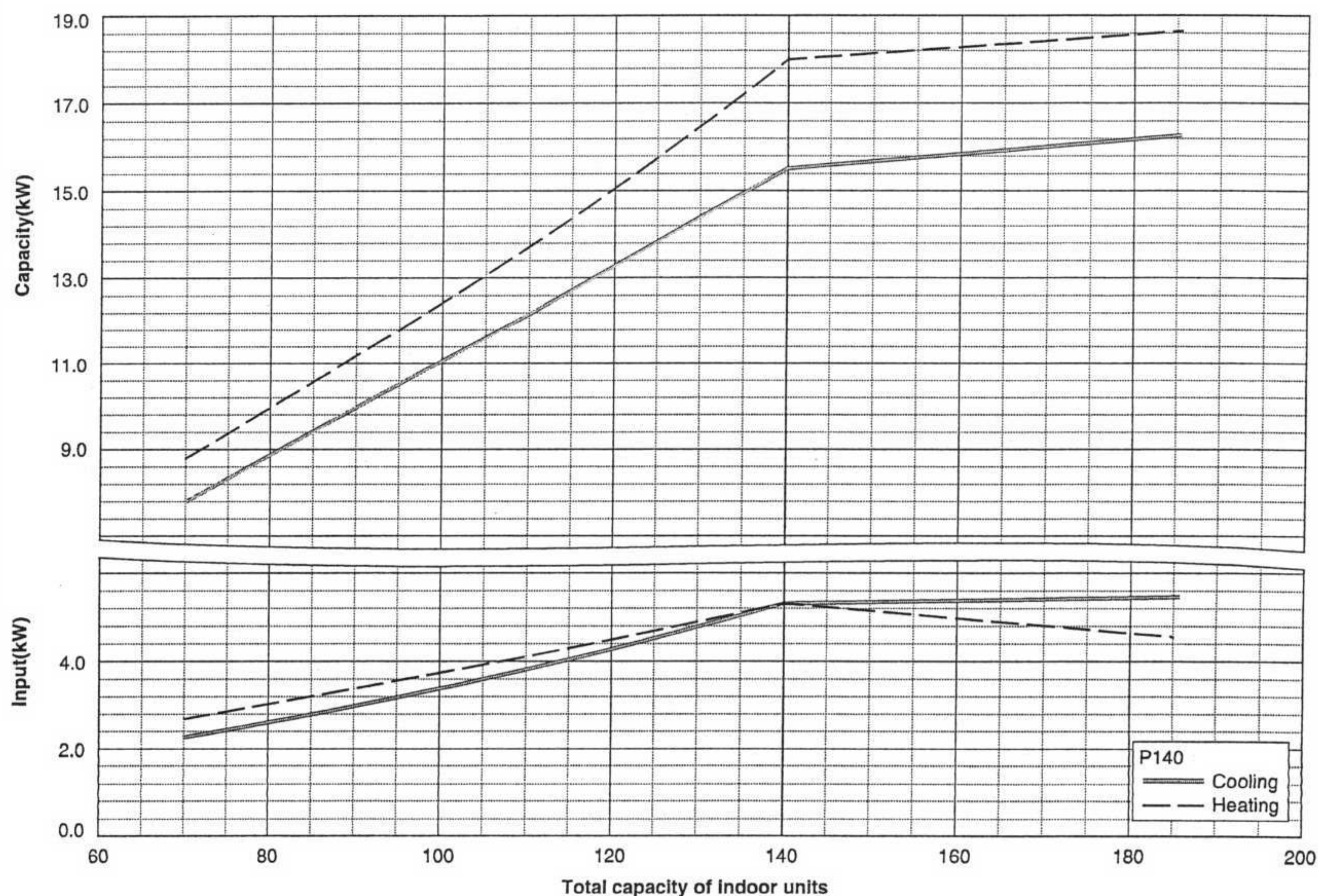
CITY MULTI™ system has different capacity and input at different total capacity of indoor unit connected. Using following tables, the maximum capacity can be observed so as to ensure the system having enough capacity.

PUMY-P100,125YHM



PUMY-P140YHM

Ref: cbtl-pumy100-125yhm



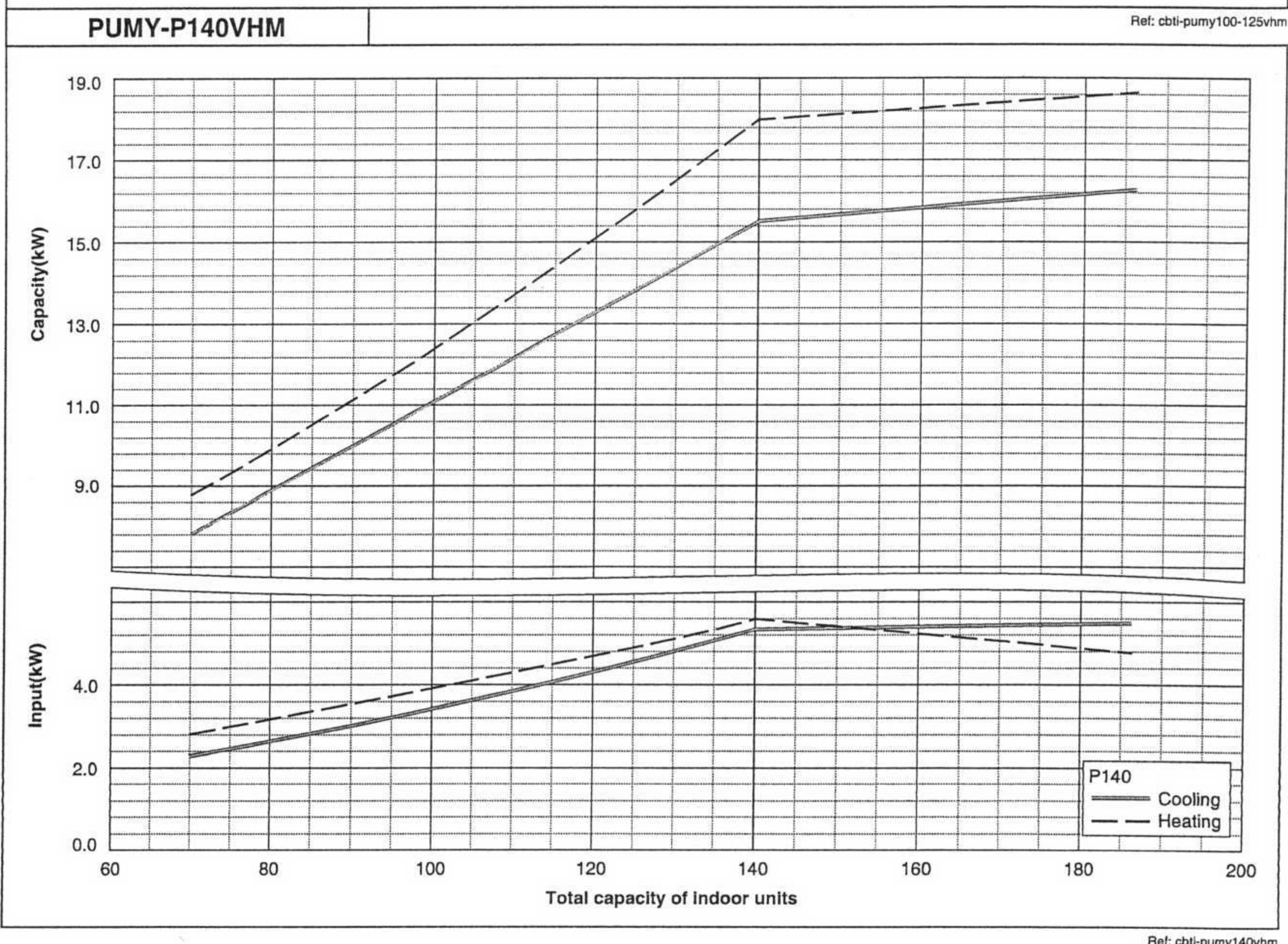
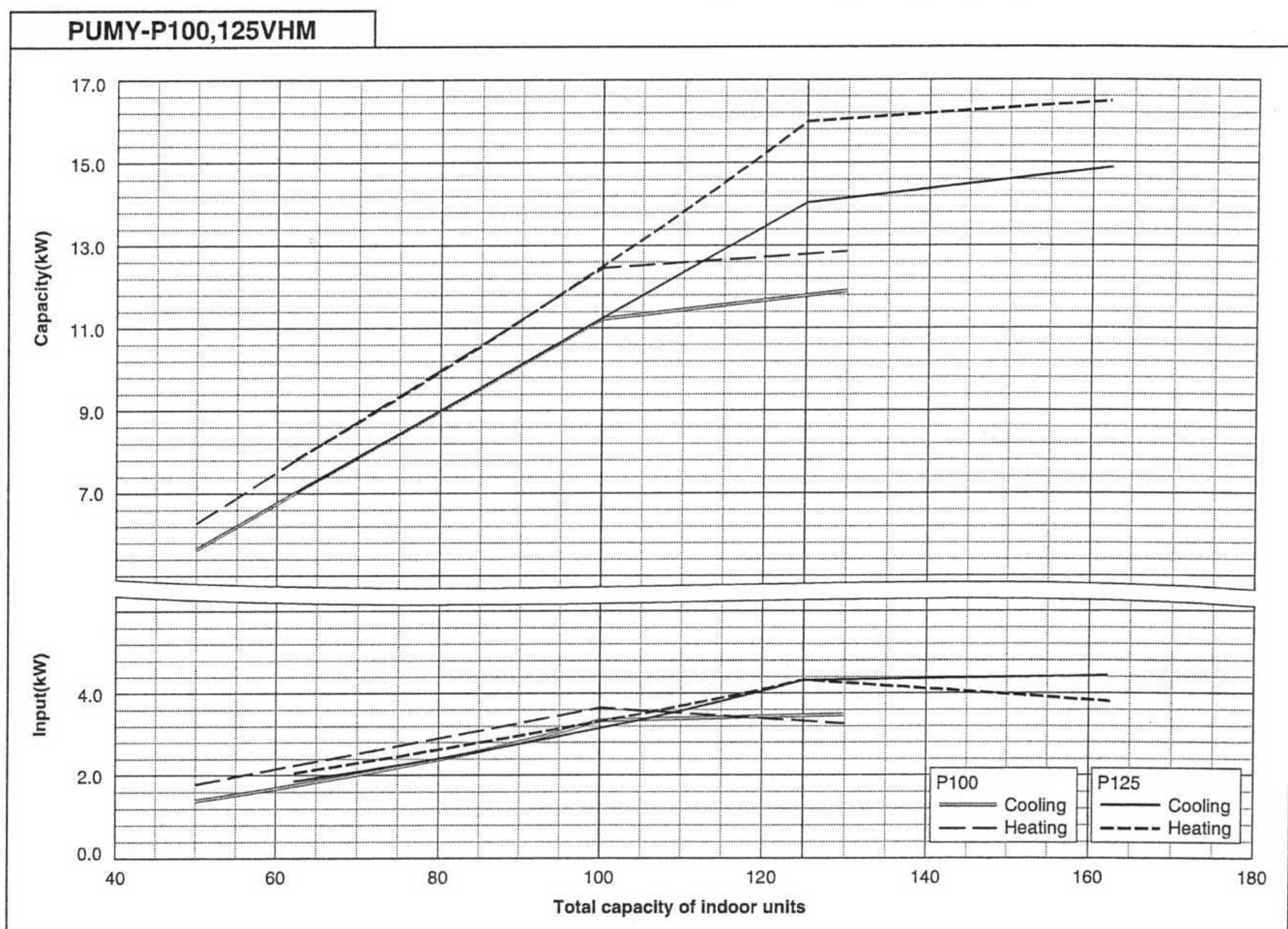
Ref: cbtl-pumy140yhm

2. CAPACITY TABLES

R410A Data G3

2-2. Correction by total indoor

CITY MULTI™ system has different capacity and input at different total capacity of indoor unit connected. Using following tables, the maximum capacity can be observed so as to ensure the system having enough capacity.



2. CAPACITY TABLES

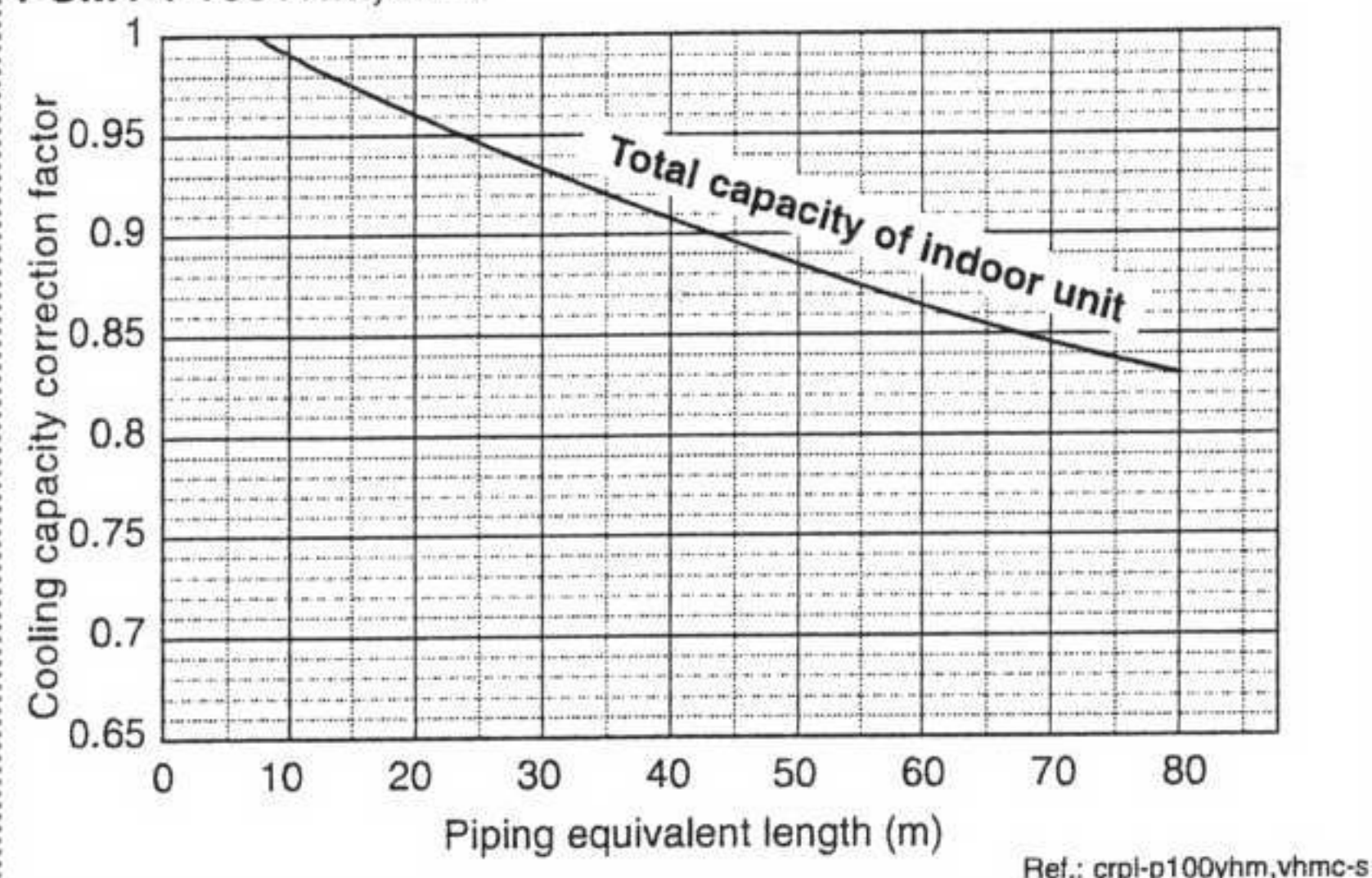
R410A Data G3

2-3. Correction by refrigerant piping length

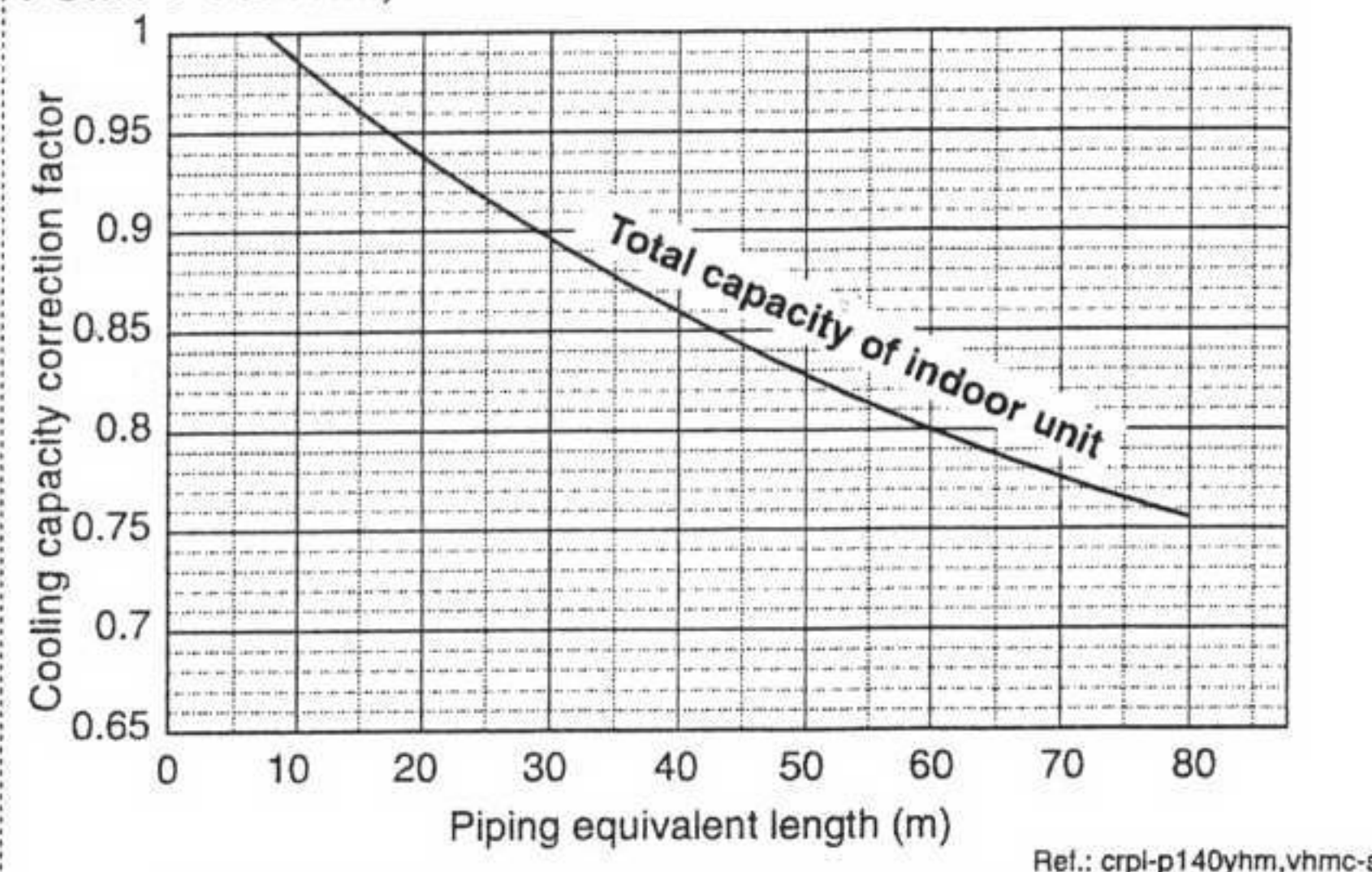
CITY MULTI™ system can extend the piping flexibly within its limitation for the actual situation. Yet, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 2.3a and 2.3b, the capacity can be observed. 2.3c shows how to obtain the equivalent length of piping.

2-3a. Cooling capacity correction

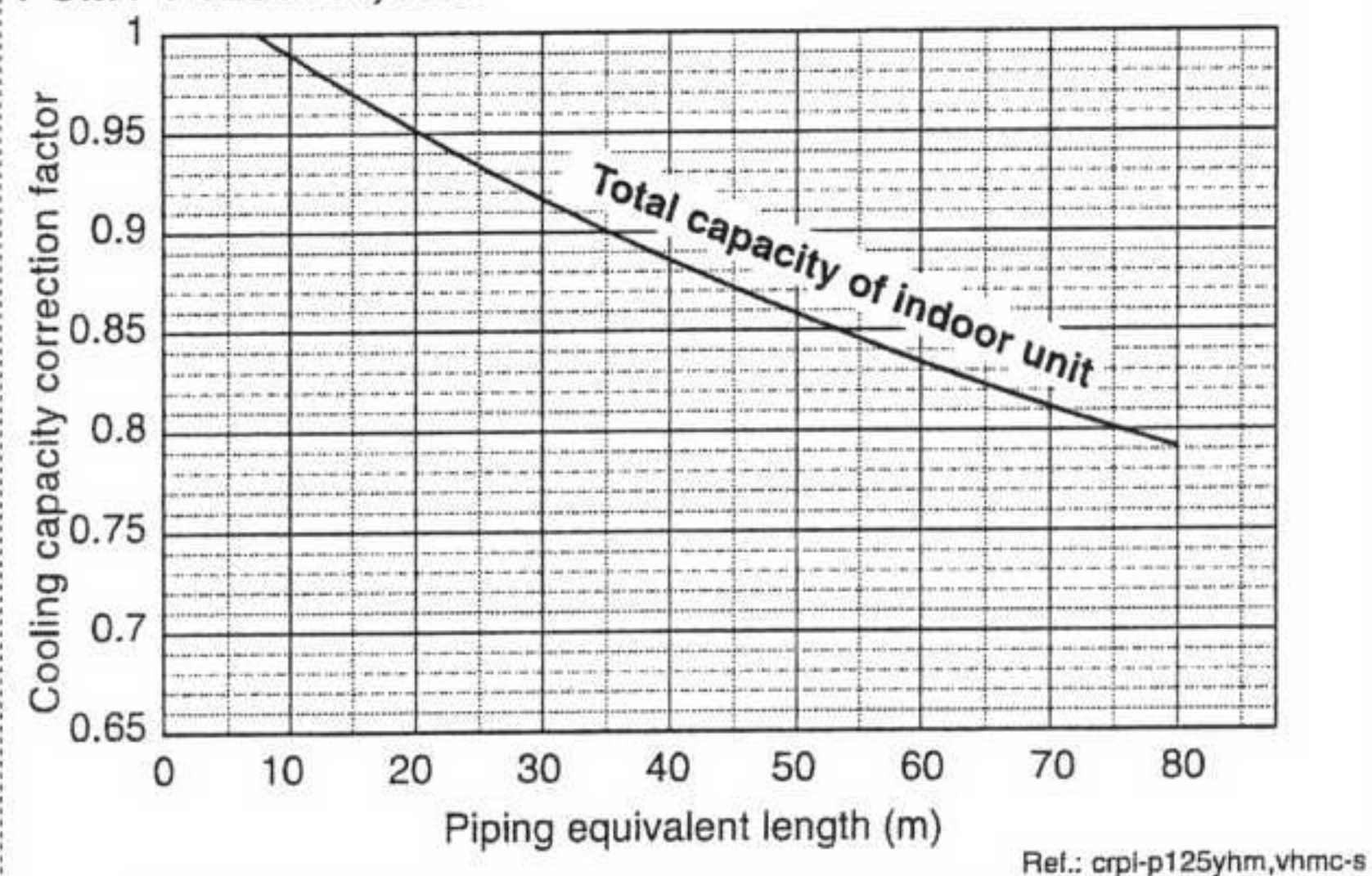
PUMY-P100YHM,VHM



PUMY-P140YHM,VHM

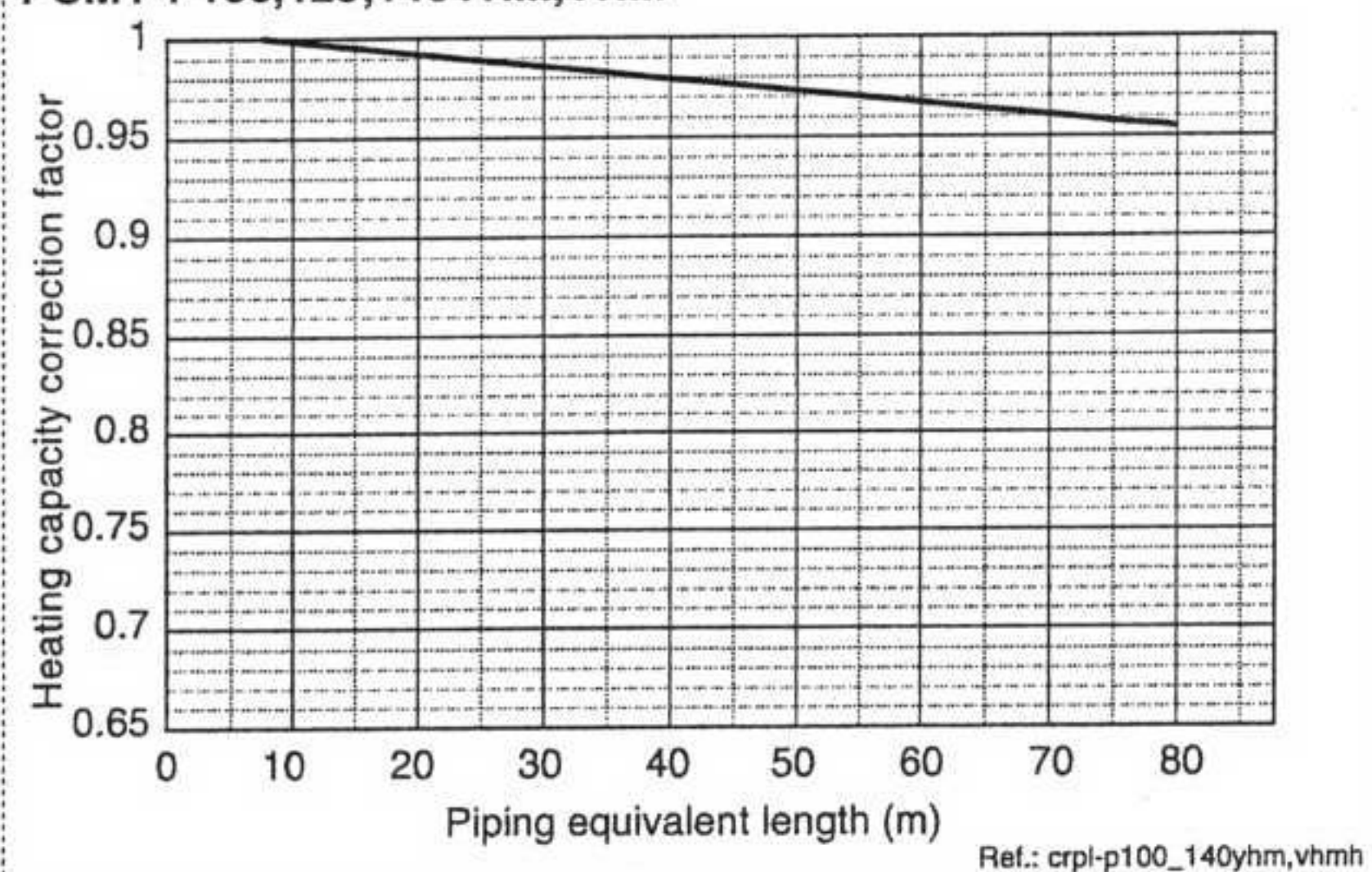


PUMY-P125YHM,VHM



2-3b. Heating capacity correction

PUMY-P100,125,140YHM,VHM



2-3c. How to obtain the equivalent length of piping

1 PUMY-P100,125,140YHM,VHM

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.30 x number of bent on the piping) m

2. CAPACITY TABLES

R410A Data G3

2-4. Correction at frosting and defrosting

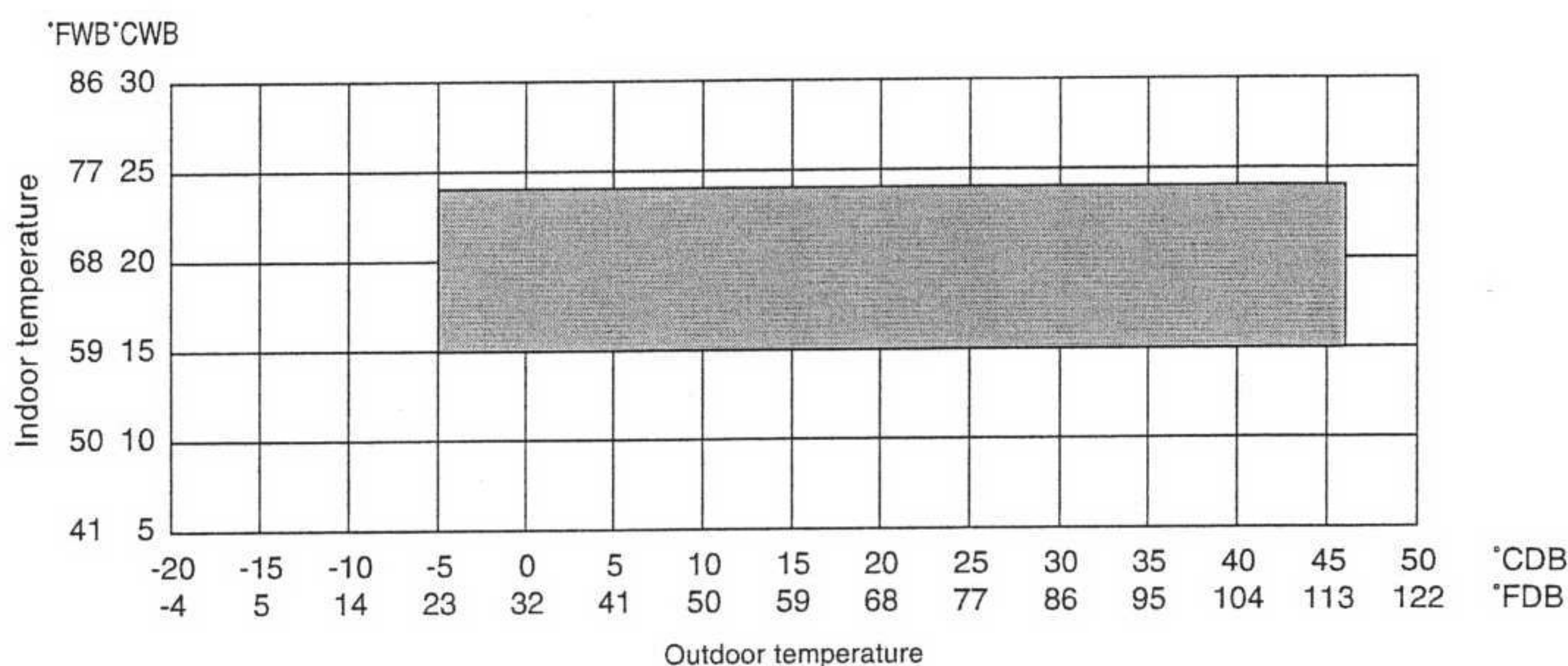
Due to frosting at the outdoor heat exchanger and the automatical defrosting operation, the heating capacity of the outdoor unit should be considered by multiplying the correction factor which shown in the table below.

Table of correction factor at frosting and defrosting

Outdoor inlet air temp. °C	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Outdoor inlet air temp. °F	43	39	36	34	32	28	25	21	18	14	-4
PUMY-P100,125,140YHM	1.0	0.98	0.855	0.85	0.845	0.89	0.90	0.95	0.95	0.95	-
PUMY-P100,125,140VHM	1.0	0.98	0.855	0.85	0.845	0.89	0.90	0.95	0.95	0.95	-

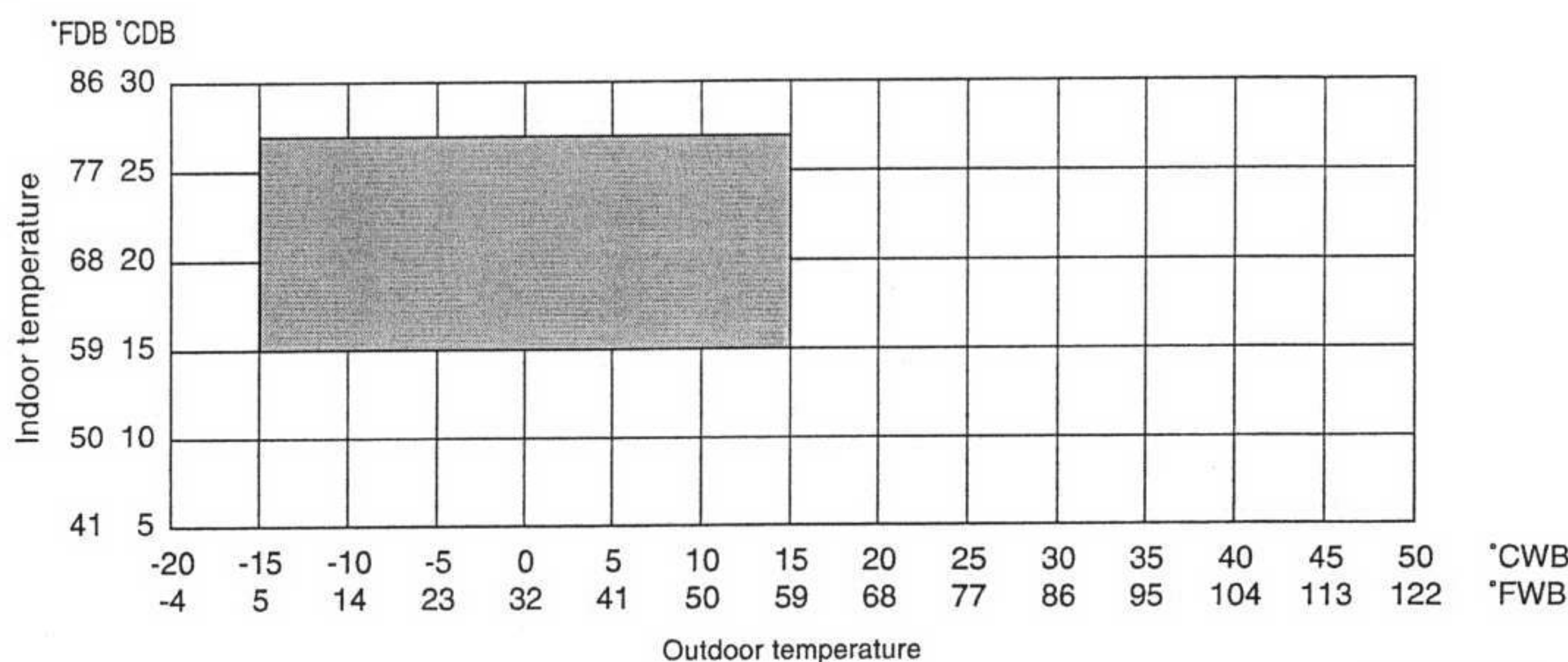
2-5. Temp. range of running

• Cooling



* 10 to 40°CDB (50 to 115°FDB): in case of connecting PKFY-P20/P25 type indoor unit.

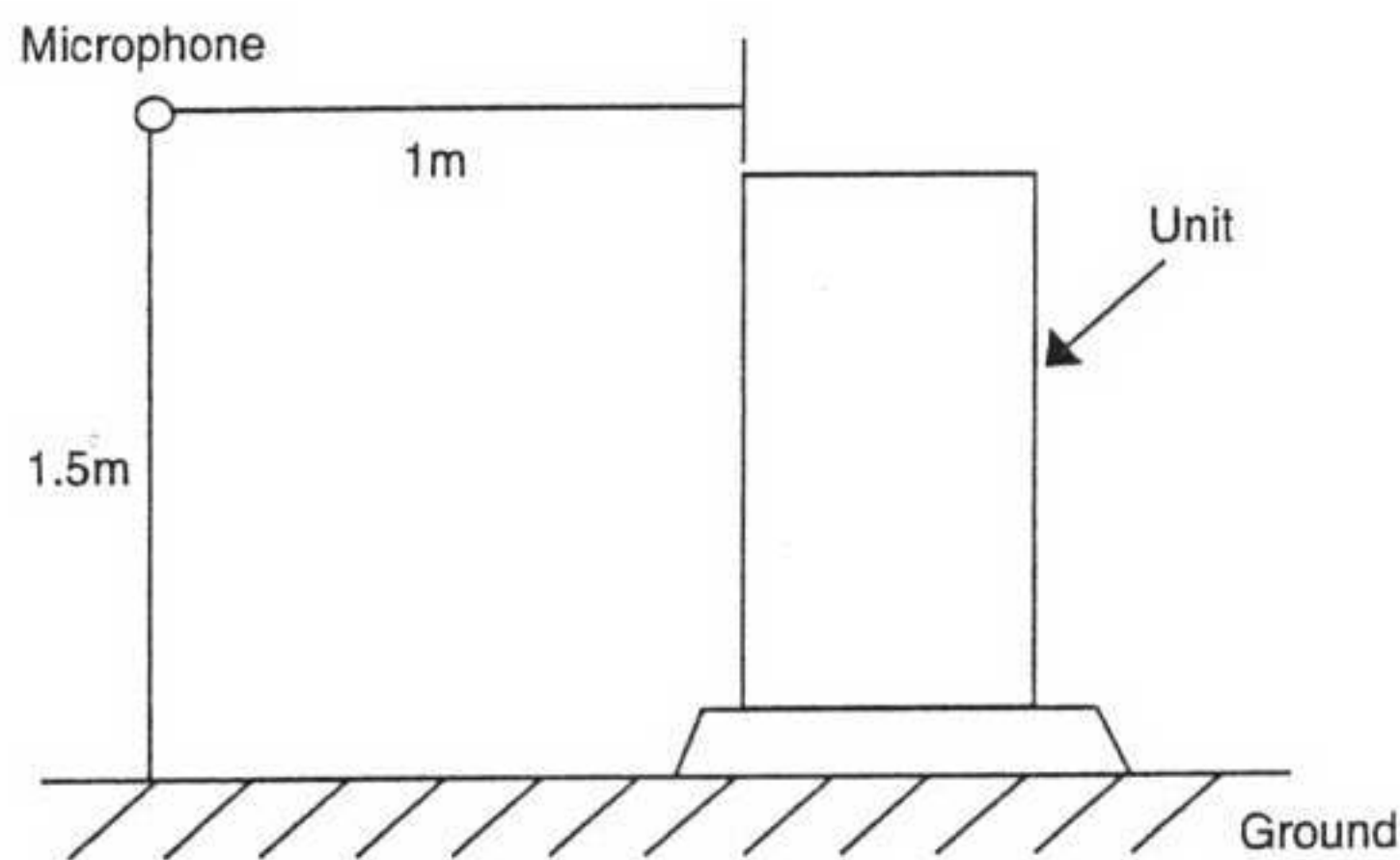
• Heating



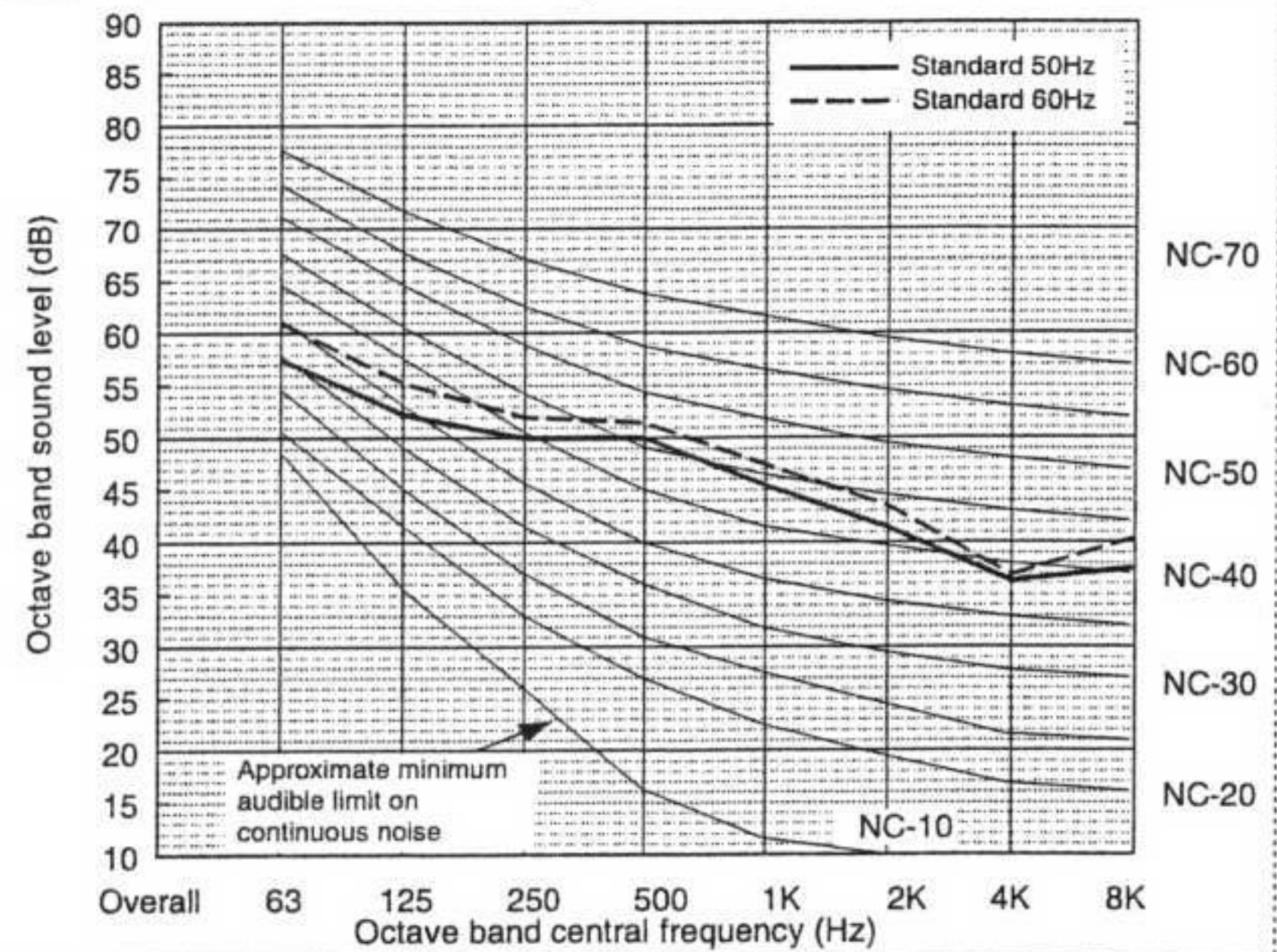
Ref.: tr-yhm, vhm-s

3. SOUND LEVELS

Measurement condition
PUMY-P100,125,140YHM
PUMY-P100,125,140VHM



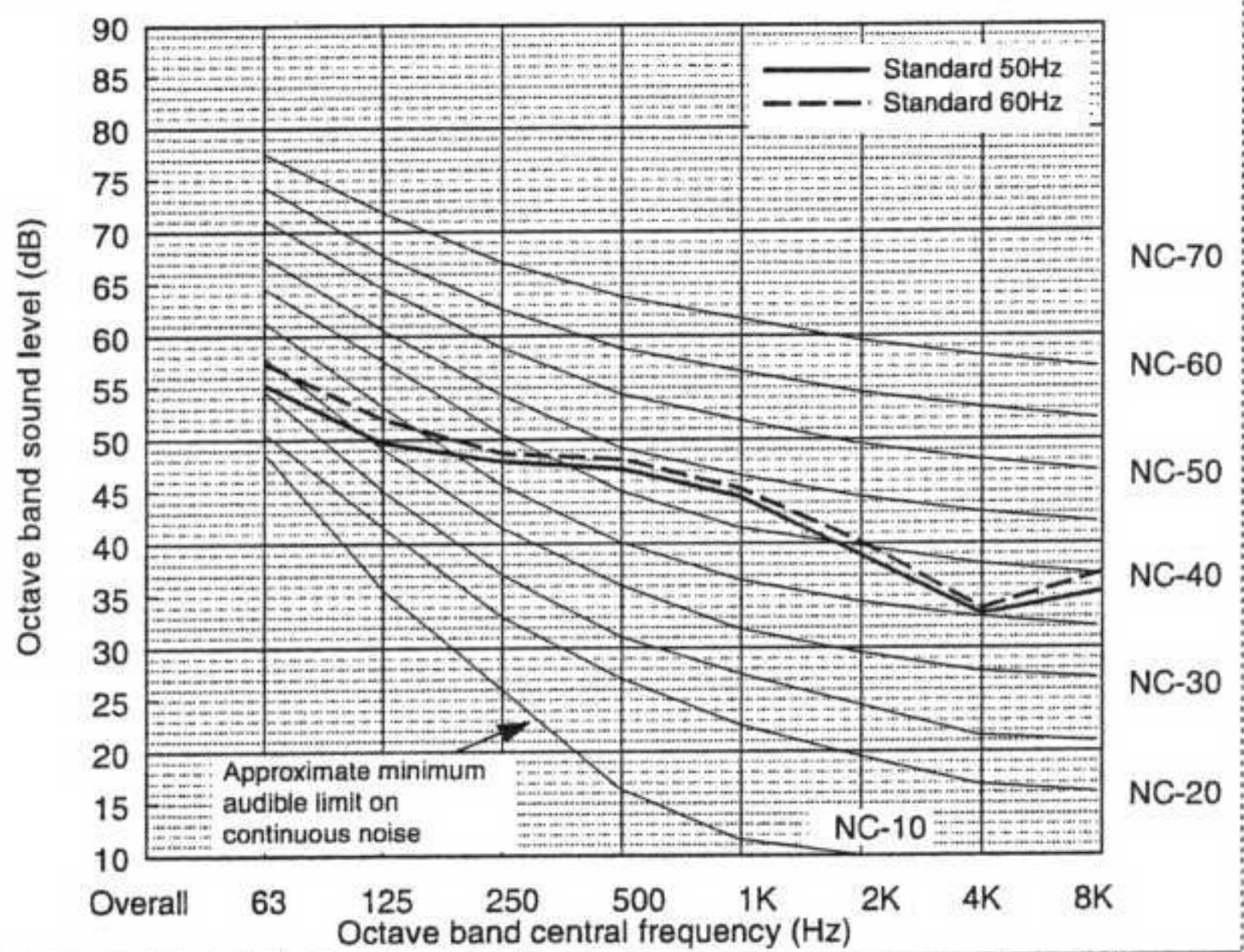
Sound level of PUMY-P140YHM,VHM Ref. : P140YHM,VHM-VBN-050093



		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
Standard	50Hz	57.2	51.7	49.9	49.8	45.5	41.1	35.9	37.1	51.0
	60Hz	60.9	55.4	52.1	51.4	47.5	43.2	37.1	40.3	53.0
Night mode	50/60Hz	-	-	-	-	-	-	-	-	-

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

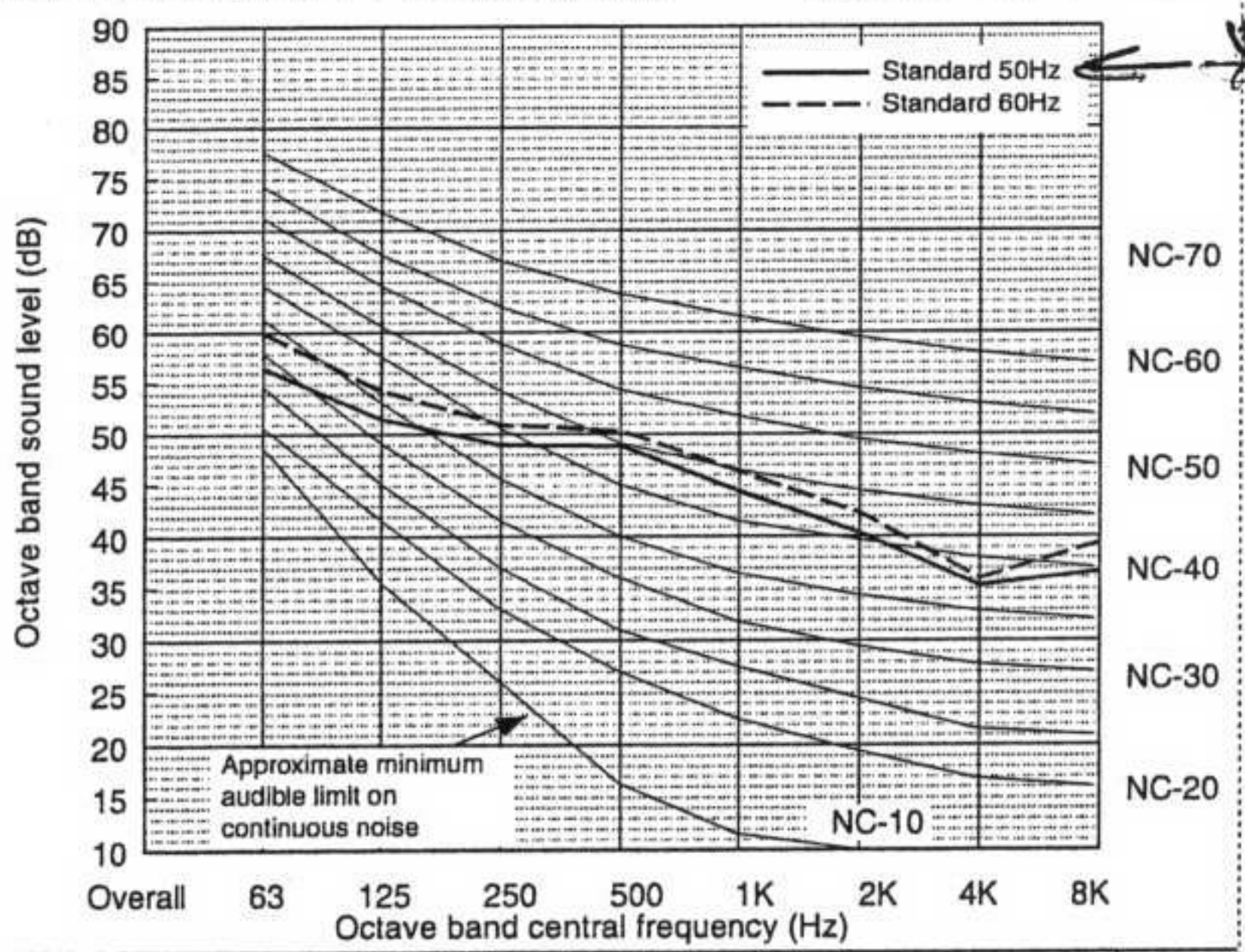
Sound level of PUMY-P100YHM,VHM Ref. : P100YHM,VHM-VBN-050093



		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
Standard	50Hz	55.2	49.7	47.9	47.8	43.5	39.1	33.9	35.1	49.0
	60Hz	58.9	53.4	50.1	49.4	45.5	41.2	35.1	38.3	51.0
Night mode	50/60Hz	-	-	-	-	-	-	-	-	-

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

Sound level of PUMY-P125YHM,VHM Ref. : P125YHM,VHM-VBN-050093



		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	dB(A)
Standard	50Hz	56.2	50.7	48.9	48.8	44.5	40.1	34.9	36.1	50.0
	60Hz	59.9	54.4	51.1	50.4	46.5	42.2	36.1	39.3	52.0
Night mode	50/60Hz	-	-	-	-	-	-	-	-	-

* When Night Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Night Mode automatically in the case that the operation condition is severe.

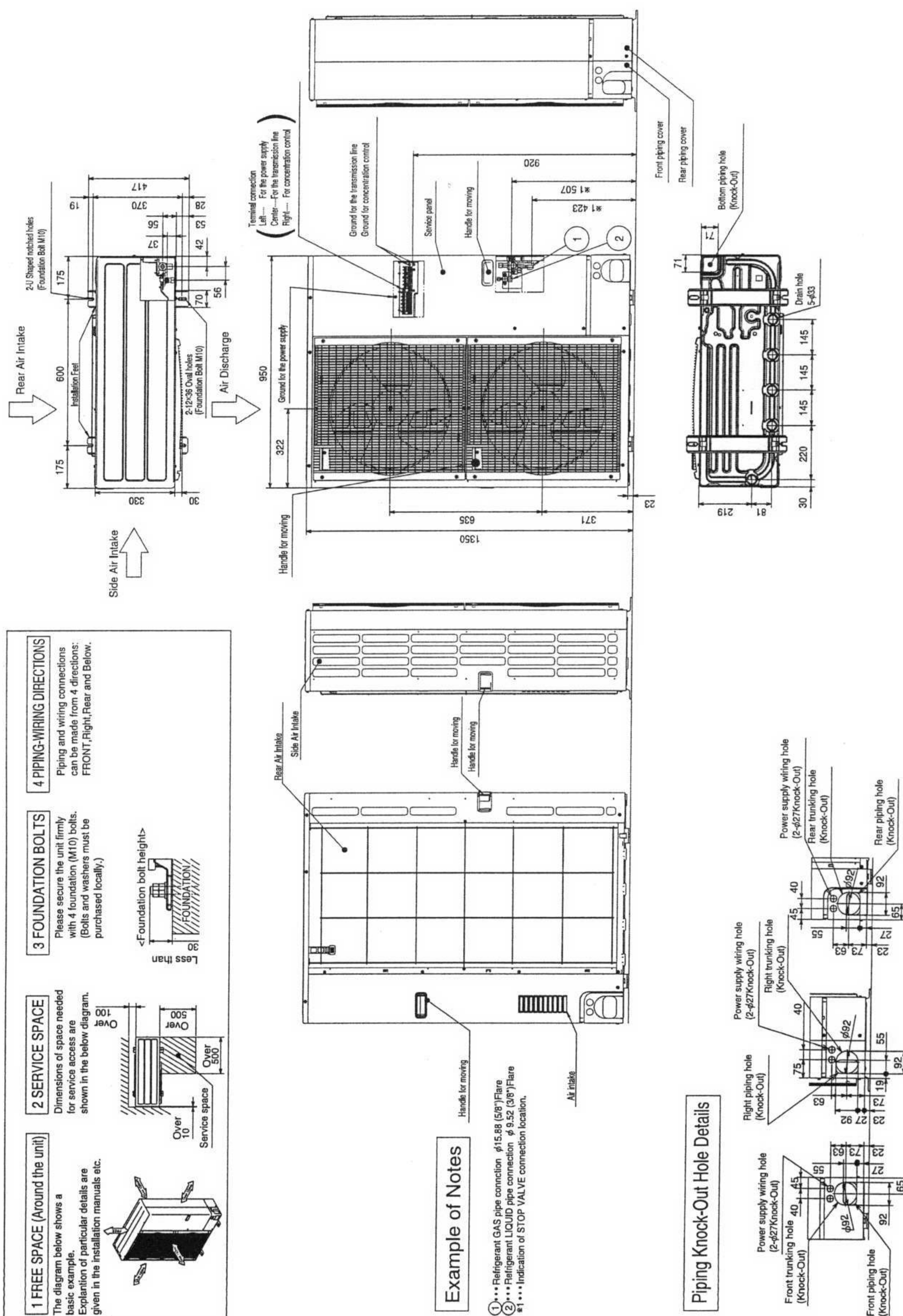
4. EXTERNAL DIMENSIONS

R410A Data G3

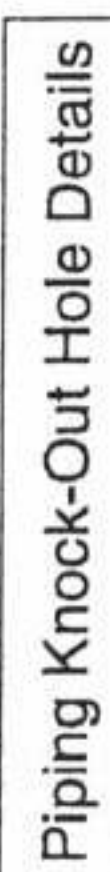
PUMY-P100,125,140YHM

Drw. : YHM-BK01-B328

Unit : mm

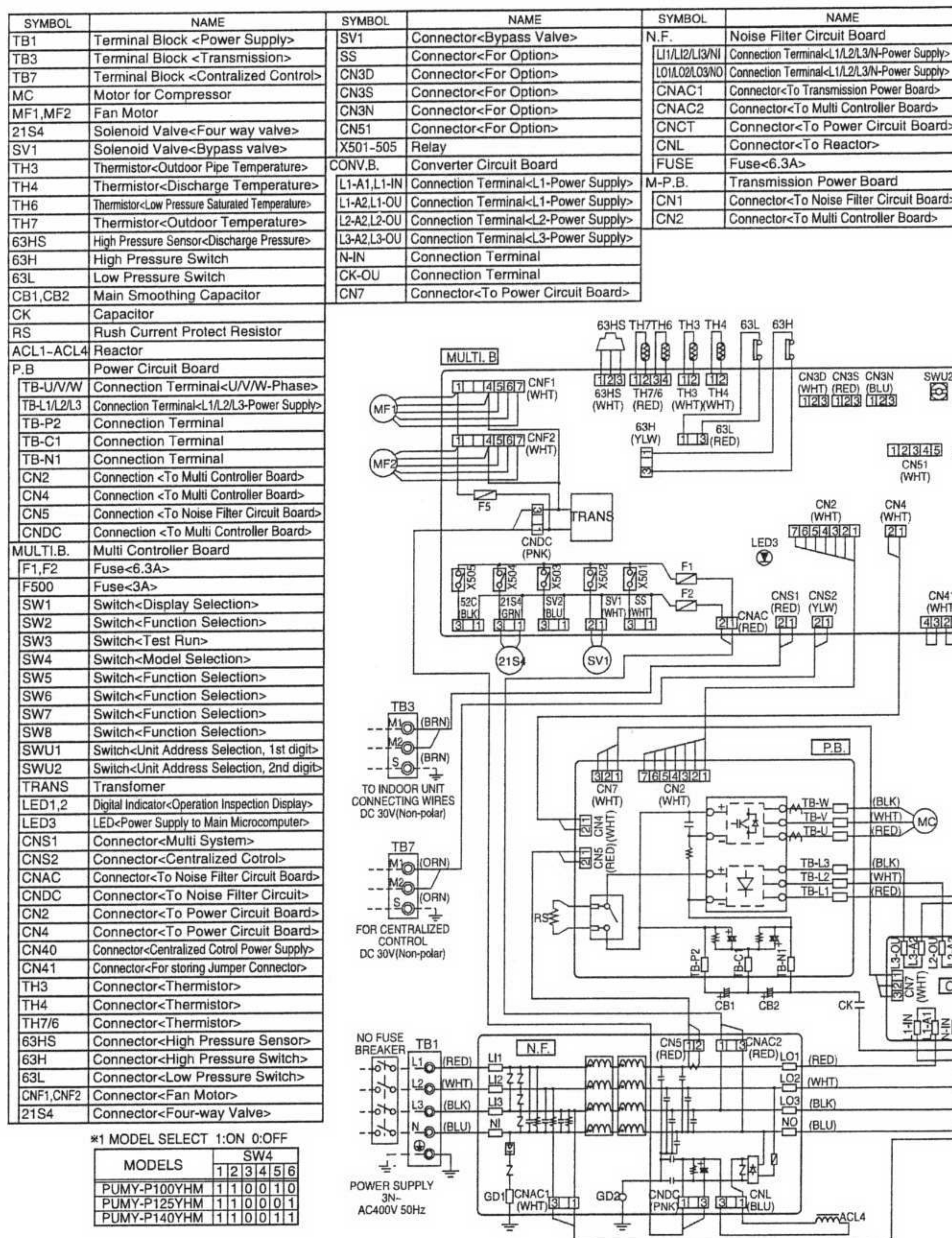


Drw. : VHM-BK01-B434
Unit : mm



PUMY-P100,125,140YHM

Drw. : YHM-RG79-V020



Cautions when Servicing

- ⚠ **WARNING:** When the main supply is turned off, the voltage [540 V] in the main capacitor will drop to 20 V in approx. 5 minutes (input voltage: 380 V). When servicing, make sure that LED1, LED2 on the outdoor circuit board goes out, and then wait for at least 5 minute. Components other than the outdoor board may be faulty: Check and take corrective action, referring to the service manual. Do not replace the outdoor board without checking.

NOTES:

- Refer to the wiring diagrams of the indoor units for details on wiring of each indoor unit.
- Self-diagnosis function
The indoor and outdoor units can be diagnosed automatically using the self-diagnosis switch (SW1) and LED1, LED2 (LED indication) found on the multi-controller of the outdoor unit.
LED indication : Set all contacts of SW1 to OFF.
- During normal operation
The LED indicates the drive state of the controller in the outdoor unit.

Bit	1	2	3	4	5	6	7	8
Indication	Compressor operated	52C	21S4	SV1	(SV2)	—	—	Always lit

[Example]
When the compressor and SV1 are turned during cooling operation.

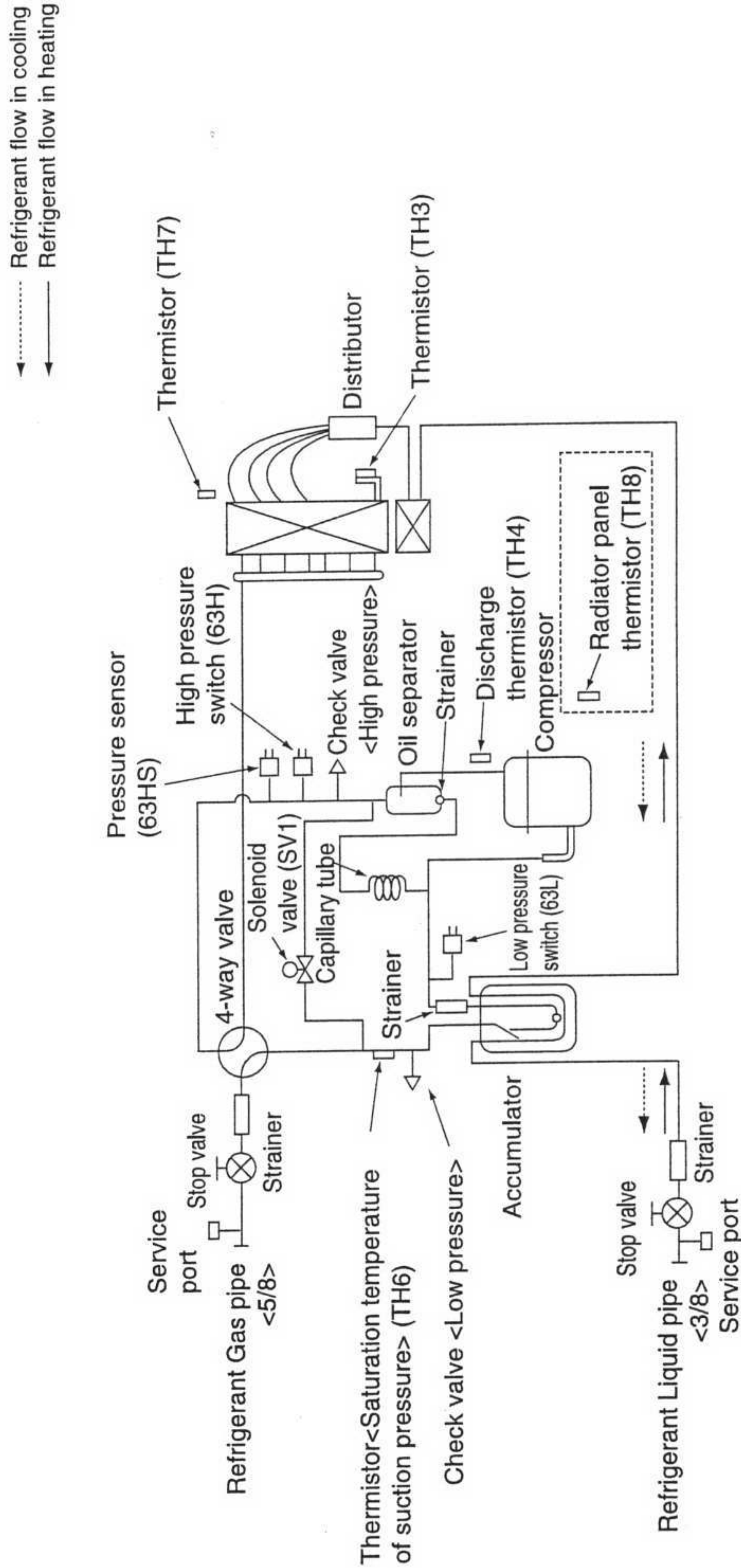


When fault requiring inspection has occurred

The LED alternately indicates the inspection code and the location of the unit in which the fault has occurred.

PUMY-P100,125,140YHM
PUMY-P100,125,140VHM

Drw. : RC_VBN-050092

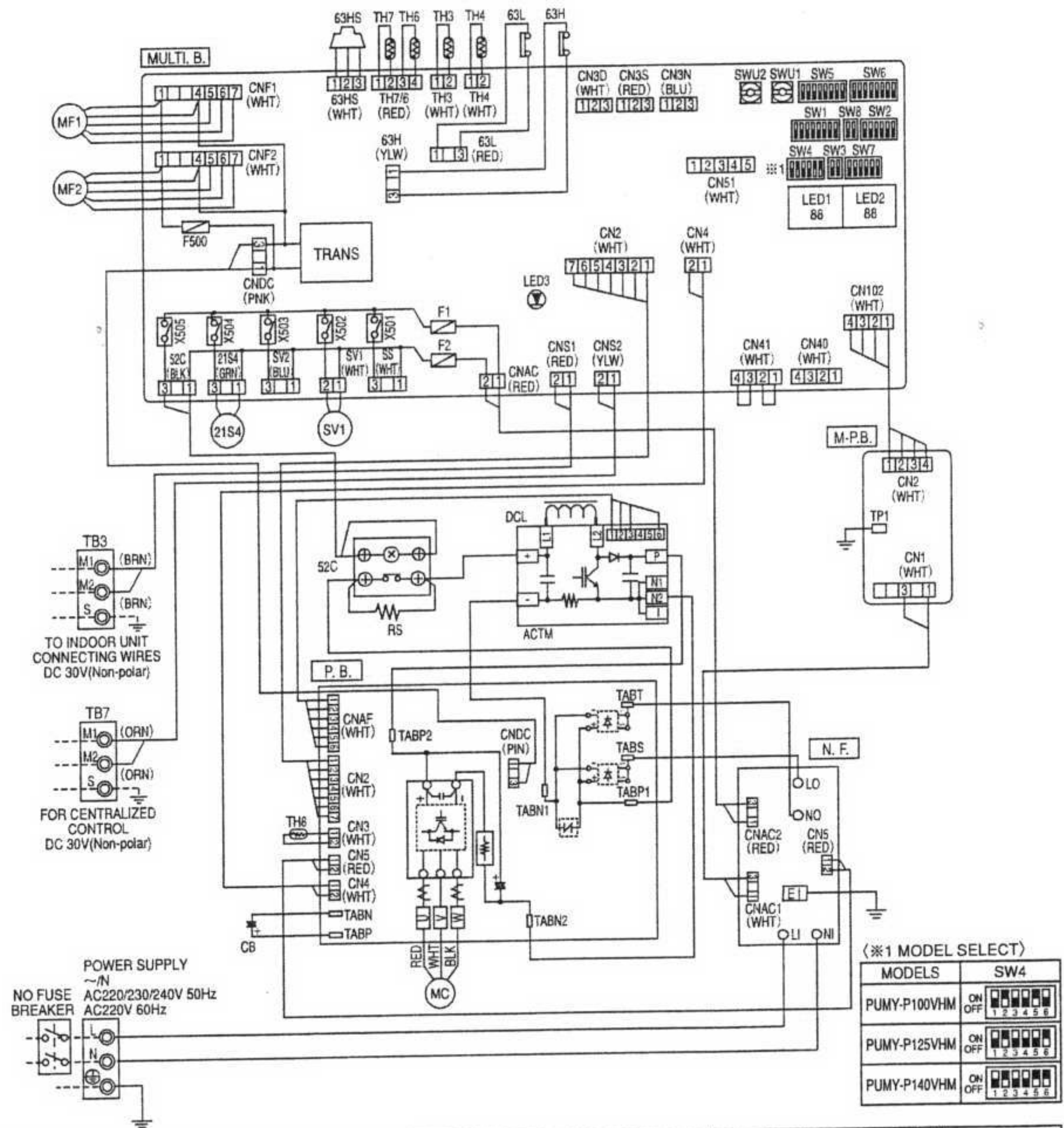


Refrigerant pipng specifications <dimensions of flared connector>

Capacity	Item	Liquid piping	Gas piping
Indoor unit	P20, P25, P32, P40, P50	φ 6.35 <1/4">Flare	φ 12.7 <1/2">Flare
	P63, P80, P100 P125, P140	φ 9.52 <3/8">Flare	φ 15.88 <5/8">Flare
	P100, P125, P140	φ 9.52 <3/8">Flare	φ 15.88 <5/8">Flare

PUMY-P100,125,140VHM

Drw. : VHM-RG79-V221



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block (Power Supply)	IPM	Inverter	CNAC	Connector (To Noise Filter Circuit Board)
TB3	Terminal Block (Transmission)	LED1	Light Emitting Diodes (Inverter Control Status)	CNDC	Connector (To Noise Filter Circuit)
TB7	Terminal Block (Centralized Control)	N.F.	Noise Filter Circuit Board	CN2	Connector (To Power Circuit Board)
MC	Motor for Compressor	LI/LO	Connection Lead (L-Phase)	CN4	Connector (To Power Circuit Board)
MF1,MF2	Fan Motor	NI/NO	Connection Lead (N-Phase)	CN40	Connector (Centralized Control Power Supply)
21S4	Solenoid Valve (Four way valve)	EI	Connection Terminal (Ground)	CN41	Connector (For storing Jumper Connector)
SV1	Solenoid Valve (Bypass valve)	CNAC1/2	Connector	TH3	Connector (Thermistor)
TH3	Thermistor (Outdoor Pipe Temperature)	CN5	Connector	TH4	Connector (Thermistor)
TH4	Thermistor (Discharge Temperature)	MULTI.B.	Multi Controller Board	TH7/6	Connector (Thermistor)
TH6	Thermistor (Low Pressure Saturated Temperature)	F1,F2	Fuse (6.3A)	63HS	Connector (High Pressure Sensor)
TH7	Thermistor (Outdoor Temperature)	F500	Fuse (3A)	63H	Connector (High Pressure Switch)
63HS	High Pressure Sensor (Discharge Pressure)	SW1	Switch (Display Selection)	63L	Connector (Low Pressure Switch)
63H	High Pressure Switch	SW2	Switch (Function Selection)	CNF1,CNF2	Connector (Fan Motor)
63L	Low Pressure Switch	SW3	Switch (Test Run)	21S4	Connector (Four-way Valve)
CB	Main Smoothing Capacitor	SW4	Switch (Model Selection)	SV1	Connector (Bypass Valve)
ACTM	Active filter Module	SW5	Switch (Function Selection)	SS	Connector (For Option)
RS	Rush Current Protect Resistor	SW6	Switch (Function Selection)	CN3D	Connector (For Option)
DCL	Reactor	SW7	Switch (Function Selection)	CN3S	Connector (For Option)
P.B.	Power Circuit Board	SW8	Switch (Function Selection)	CN3N	Connector (For Option)
U/V/W	Connection Terminal (U/V/W-Phase)	SWU1	Switch (Unit Address Selection, 1st digit)	CN51	Connector (For Option)
TAB-S/T	Terminal (L/N-Phase)	SWU2	Switch (Unit Address Selection, 2nd digit)	X501~505	Relay
TAB-P/P1/P2	Terminal (DC Voltage)	TRANS	Transformer	M-P.B.	Transmission Power Board
TAB-NN1/N2	Terminal (DC Voltage)	LED1,2	Digital Indicator (Operation Inspection Display)	CN1	Connector (To Noise Filter Circuit Board)
CN2~5	Connector	LED3	LED (Power Supply to Main Microcomputer)	CN2	Connector (To Multi Controller Board)
CNDC	Connector	CNS1	Connector (Multi System)		
CNAF	Connector	CNS2	Connector (Centralized Control)		

Cautions when Servicing

- ⚠ WARNING: When the main supply is turned off, the voltage [340 V] in the main capacitor will drop to 20 V in approx. 2 minutes (input voltage: 240 V). When servicing, make sure that LED1, LED2 on the outdoor circuit board goes out, and then wait for at least 1 minute.
- Components other than the outdoor board may be faulty: Check and take corrective action, referring to the service manual. Do not replace the outdoor board without checking.

NOTES:

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Self-diagnosis function
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Indication	Compressor operated	52C	21S4	SV1	(SV2)	—	—	Always lit

- When fault requiring inspection has occurred
The LED alternately indicates the inspection code and the location of the unit in which the fault has occurred.

[Example]
When the compressor and SV1 are turned during cooling operation.

