

AIR CONDITIONING SYSTEMS

CITY MULTI

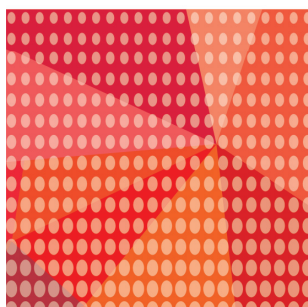
DATA BOOK

MODEL

PUMY-P175,200,225YKM3-PA,DA(-BS)

PUMY-CP175,200,225YKM2-PA,DA(-BS)

PUMY-CP175,200,225YKM2-TH



Line-up of Outdoor Units of R410A CITY MULTI

S-Series



- PUMY-P175YKM3-PA,DA(-BS)

PUMY-P200YKM3-PA,DA(-BS)

PUMY-P225YKM3-PA,DA(-BS)
- PUMY-CP175YKM2-PA,DA(-BS)

PUMY-CP175YKM2-TH

PUMY-CP200YKM2-PA,DA(-BS)

PUMY-CP200YKM2-TH

PUMY-CP225YKM2-PA,DA(-BS)

PUMY-CP225YKM2-TH

7, 8, 9HP

PUMY-P-YKM3, PUMY-CP-YKM2

1. SPECIFICATIONS	2
2. EXTERNAL DIMENSIONS	4
3. CENTER OF GRAVITY	5
4. ELECTRICAL WIRING DIAGRAMS	6
5. SOUND LEVELS	9
6. OPERATION TEMPERATURE RANGE	11
7. VIBRATION LEVEL	12
8. CAPACITY TABLES	13
8-1. Correction by temperature/total indoor	13
8-2. Correction by refrigerant piping length	34
8-3. Correction at frost and defrost	35
9. OPTIONAL PARTS	36
9-1. JOINT	36
9-2. HEADER	37
10. ELECTRICAL WORK	38
10-1. General cautions	38
10-2. Power supply for Outdoor unit	39
10-3. Power cable specifications	40
10-4. Power supply examples	42
11. M-NET CONTROL	43
11-1. Transmission cable length limitation	43
11-2. Transmission cable specifications	44
11-3. System configuration restrictions	45
11-4. Address setting	49
12. PIPING DESIGN	59
12-1. R410A Piping material	59
12-2. Piping Design	60
12-3. Refrigerant charging calculation	67
13. OUTDOOR INSTALLATION	68
13-1. Requirement on installation site	68
13-2. Spacing	69
13-3. Piping direction	70

1. SPECIFICATIONS

S-Series

PUMY-P-YKM3, PUMY-CP-YKM2

Model			PUMY-P175YKM3(-BS)	PUMY-P200YKM3(-BS)	PUMY-P225YKM3(-BS)	
Power source			3-phase 380-400-415 V, 50 Hz / 380 V, 60 Hz			
Cooling capacity (Nominal)	*1	kW	20.0	22.4	25.0	
	*1	kcal/h	17,200	19,300	21,500	
	*1	Btu/h	68,200	76,400	85,300	
		Power input	kW	5.00	5.74	6.54
		Current input	A	8.94-8.50-8.19/8.94	10.03-9.53-9.18/10.03	11.17-10.61-10.23/11.17
		EER	kW/kW	4.00	3.90	3.82
Temp. range of cooling	Indoor	W.B.	15 to 24°C [59 to 75°F]			
	Outdoor	D.B.	-5 to 52°C ³ [23 to 126°F]			
Heating capacity (Nominal)	*2	kW	22.4	25.0	27.3	
	*2	kcal/h	19,300	21,500	23,500	
	*2	Btu/h	76,400	85,300	93,200	
		Power input	kW	5.14	5.99	6.80
		Current input	A	9.19-8.73-8.42/9.19	10.47-9.94-9.58/10.47	11.61-11.03-10.63/11.61
		COP	kW/kW	4.35	4.17	4.01
Temp. range of heating	Indoor	D.B.	15 to 27°C [59 to 81°F]			
	Outdoor	W.B.	-20 to 15°C [-4 to 59°F]			
Indoor unit connectable	Total capacity		50 to 130% of outdoor unit capacity			
	Model/	CITY MULTI	15-200/12	15-250/12		
	Quantity	Branch box	kW type: 25—71, Btu type: 10—18, Cal unit: type 22-63/8			
		Branch box	CITY MULTI	15—200/5	15—250/5	
		1 unit	Branch box	kW type: 25—71, Btu type: 10—18, Cal unit: type 22-63/5		
		Branch box	CITY MULTI	15—200/3	15—250/3	
	2 unit	Branch box	kW type: 25—71, Btu type: 10—18, Cal unit: type 22-63/8			
Sound pressure level (SPL) (measured in anechoic room)		dB <A>	57/61		58/63	
Sound power level (PWL) (measured in anechoic room)		dB <A>	—	—	—	
Refrigerant piping diameter	Liquid pipe	mm (in)	ø9.52 [ø3/8] ⁴			
	Gas pipe	mm (in)	ø22.2 [ø3/4]			
FAN	Type x Quantity		Propeller Fan × 2			
	Airflow rate	m3/min	134.0	134.0	143.8	
		L/s	2233	2233	2397	
		cfm	4732	4732	5078	
	Control, Driving mechanism		DC control			
	Motor output	kW	0.20 + 0.20			
	External static press.		0 Pa			
Compressor	Type x Quantity		Scroll hermetic compressor × 1			
	Manufacture		Siam Compressor Industry Co., Ltd.			
	Starting method		Inverter			
	Motor output	kW	3.6/4.3	3.9/5.2	4.4/5.4	
	Case heater	kW	0			
	Lubricant		FVC68D(2.3 liter)			
External finish		Galvanized Steel Sheet				
		<MUNSELL 3Y 7.8/1.1>				
External dimension H x W x D		mm	1,338 × 1,050 × 330(+25)			
		in	52-11/16 × 41-11/32 × 13(+1)			
Protection devices	High pressure protection		High pressure switch			
	Inverter circuit (COMP./FAN)		Overcurrent detection, Overheat detection(Heat sink thermistor)			
	Compressor		Compressor thermistor, Over current detection			
Refrigerant	Fan motor		Overheating, Voltage protection			
	Type x original charge		R410A × 7.3 kg [16 lb]			
	Control		Linear Expansion Valve			
Net weight		kg (lb)	138(305) ⁵			
Heat exchanger			Cross Fin and Copper tube			
HIC circuit (HIC: Heat Inter-Changer)			HIC circuit			
Defrosting method			Reversed refrigerant circuit			
Drawing	External		RK01N269			
	Wiring		BH79N764			
Standard attachment	Document		Installation Manual			
	Accessory		Joint pipe × 1, Grounded lead wire × 1			
Optional parts			Joint: CMY-Y62-G-E			
			Header: CMY-Y64/68-G-E			
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			
			Due to continuing improvement, above specifications may be subject to change without notice.			
Notes:			^{*1} Nominal cooling conditions (subject to ISO 15042) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)			
			^{*2} Nominal heating conditions (subject to ISO 15042) Indoor: 20°C D.B. (68°F D.B.), Outdoor: 7°C D.B./6°C W.B. (45°F D.B./43°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)			
			^{*3} 10 to 52°C D.B.: When connecting PKFY-P15/P20/25/32VLM-E, PFFY-P20/25/32VKM-E, PFFY-P20/25/32VLE(R)M(M)-E, PFFY-P20/25/32VCM-E, PEFY-P25/40/63/71VMA3-E type indoor unit; and M series, S series, and P series type indoor unit.			
			^{*4} Liquid pipe diameter: ø12.7 mm, when further piping length is longer than 60 m, or the farthest length of main pipe between outdoor unit and branch box is longer than 20 m in branch box system.			
			^{*5} 139 (306). for PUMY-P175/200/225YKM3-BS			

1. SPECIFICATIONS

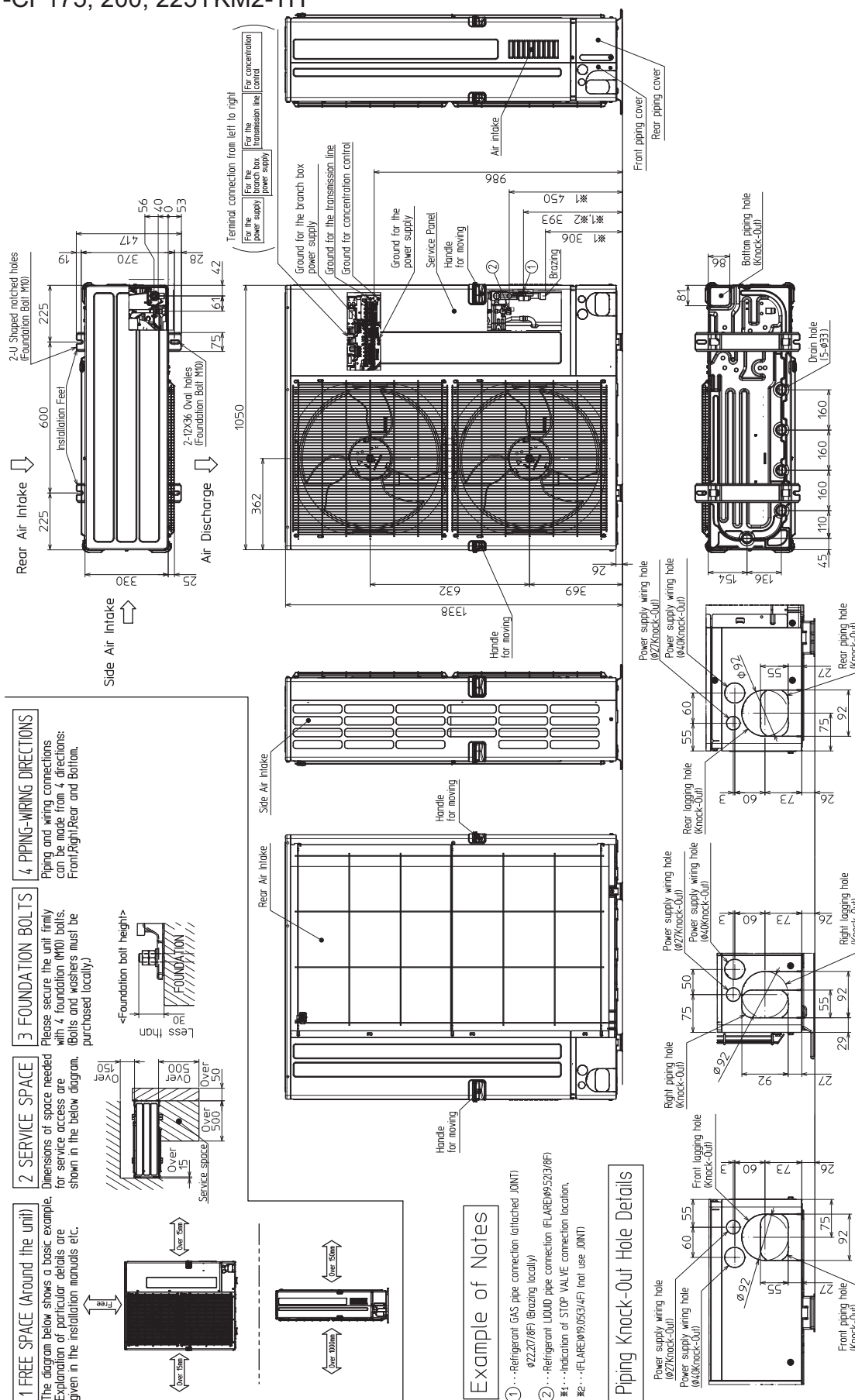
S-Series

PUMY-P-YKM3, PUMY-CP-YKM2

Model			PUMY-CP175YKM2(-BS)	PUMY-CP200YKM2(-BS)	PUMY-CP225YKM2(-BS)
Power source			3-phase 380-400-415 V, 50 Hz / 380 V, 60 Hz		
Cooling capacity (Nominal)	*1	kW	20.0	22.4	25.0
	*1	kcal/h	17,200	19,300	21,500
	*1	Btu/h	68,200	76,400	85,300
	Power input		kW	5.00	5.74
	Current input		A	8.94-8.50-8.19/8.94	10.03-9.53-9.18/10.03
EER		kW/kW	4.00	3.90	3.82
Temp. range of cooling	Indoor	W.B.	15 to 24°C [59 to 75°F]		
	Outdoor	D.B.	10 to 52°C [50 to 126°F]		
Indoor unit connectable	Total capacity		50 to 150% of outdoor unit capacity ^{*2}		
	Model/	CITY MULTI	P15-200/12	P15-250/12	
	Quantity	Branch box	kW type: 25 - 100(kW type) Btu/h type: 07 - 30 (Btu/h type) Cal unit: type 22-63/8		
		Branch box	CITY MULTI	P15-200/5	
		1 unit	Branch box	kW type: 25 - 100(kW type) Btu/h type: 07 - 30 (Btu/h type) Cal unit: type 22-63/5	
		Branch box	CITY MULTI	P15-200/3	
2 unit		Branch box	kW type: 25 - 100(kW type) Btu/h type: 07 - 30 (Btu/h type) Cal unit: type 22-63/8		
Sound pressure level (SPL) (measured in anechoic room)		dB <A>	57		58
Sound power level (PWL) (measured in anechoic room)		dB <A>	—		—
Refrigerant	Liquid pipe	mm (in)	ø9.52 [ø3/8] ^{*3}		
piping diameter	Gas pipe	mm (in)	ø22.2 [ø3/4]		
FAN	Type x Quantity		Propeller Fan × 2		
	Airflow rate	m3/min	134.0	143.8	
		L/s	2,233	2,397	
		cfm	4,732	5,078	
	Control, Driving mechanism		DC control		
	Motor output		0.20 + 0.20		
	External static press.		0 Pa		
Compressor	Type x Quantity		Scroll hermetic compressor × 1		
	Manufacture		Siam Compressor Industry Co., Ltd.		
	Starting method		Inverter		
	Motor output	kW	3.5	3.9	4.3
	Case heater	kW	0		
	Lubricant		FVC68D(2.3 liter)		
External finish		Galvanized Steel Sheet			
External dimension H x W x D		mm	<MUNSELL 3Y 7.8/1.1>		
			1,338 × 1,050 × 330(+25)		
		in	52-11/16 × 41-11/32 × 13(+1)		
Protection devices	High pressure protection		High pressure switch		
	Inverter circuit (COMP./FAN)		Overcurrent detection, Overheat detection(Heat sink thermistor)		
	Compressor		Compressor thermistor, Over current detection		
	Fan motor		Overcurrent detection		
Refrigerant	Type x original charge		R410A × 6.3 kg [13 lb]		
	Control		Linear Expansion Valve		
Net weight		kg (lb)	129(285) ^{*4}		
Heat exchanger			Cross Fin and Copper tube		
HIC circuit (HIC: Heat Inter-Changer)			HIC circuit		
Defrosting method			Reversed refrigerant circuit		
Drawing	External		RK01N269		
	Wiring		(-DA/-PA)BH79N765 / (-TH)BH79V041		
Standard attachment	Document		Installation Manual		
	Accessory		Joint pipe x 1, Grounded lead wire × 1		
Optional parts			Joint: CMY-Y62-G-E		
			Header: CMY-Y64/68-G-E		
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice.		
Notes:			^{*1} Nominal cooling conditions (subject to ISO 15042) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B. (95°F D.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.) ^{*2} Up to 150% can be connected. However, up to 130% can be connected for simultaneous operation. ^{*3} Liquid pipe diameter: ø12.7 mm, when further piping length is longer than 60 m, or the farthest length of main pipe between outdoor unit and branch box is longer than 20 m in branch box system. ^{*4} 130 (287), for PUMY-CP175/200/225YKM2-BS.		

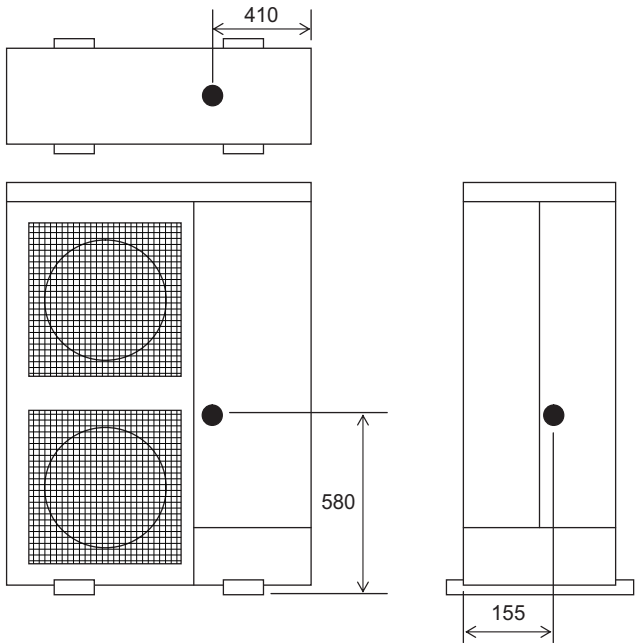
PUMY-P175, 200, 225YKM3-PA, DA(-BS)
 PUMY-CP175, 200, 225YKM2-PA, DA(-BS)
 PUMY-CP175, 200, 225YKM2-TH

Unit: mm

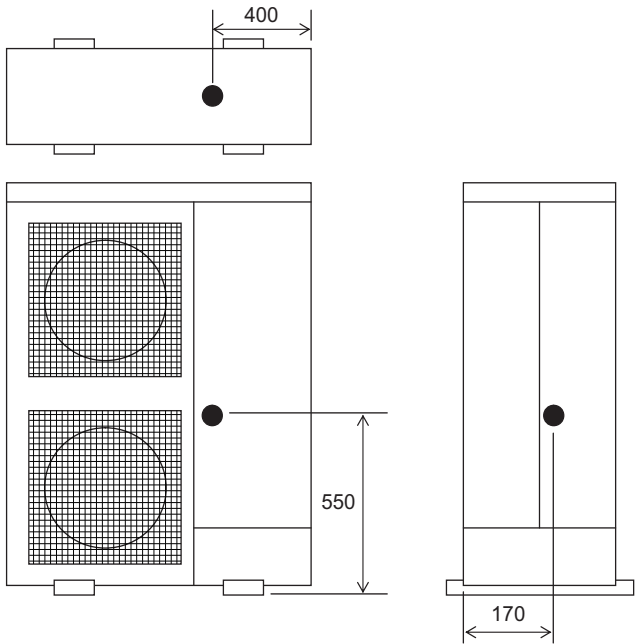


PUMY-P175, 200, 225YKM3-PA, DA(-BS)

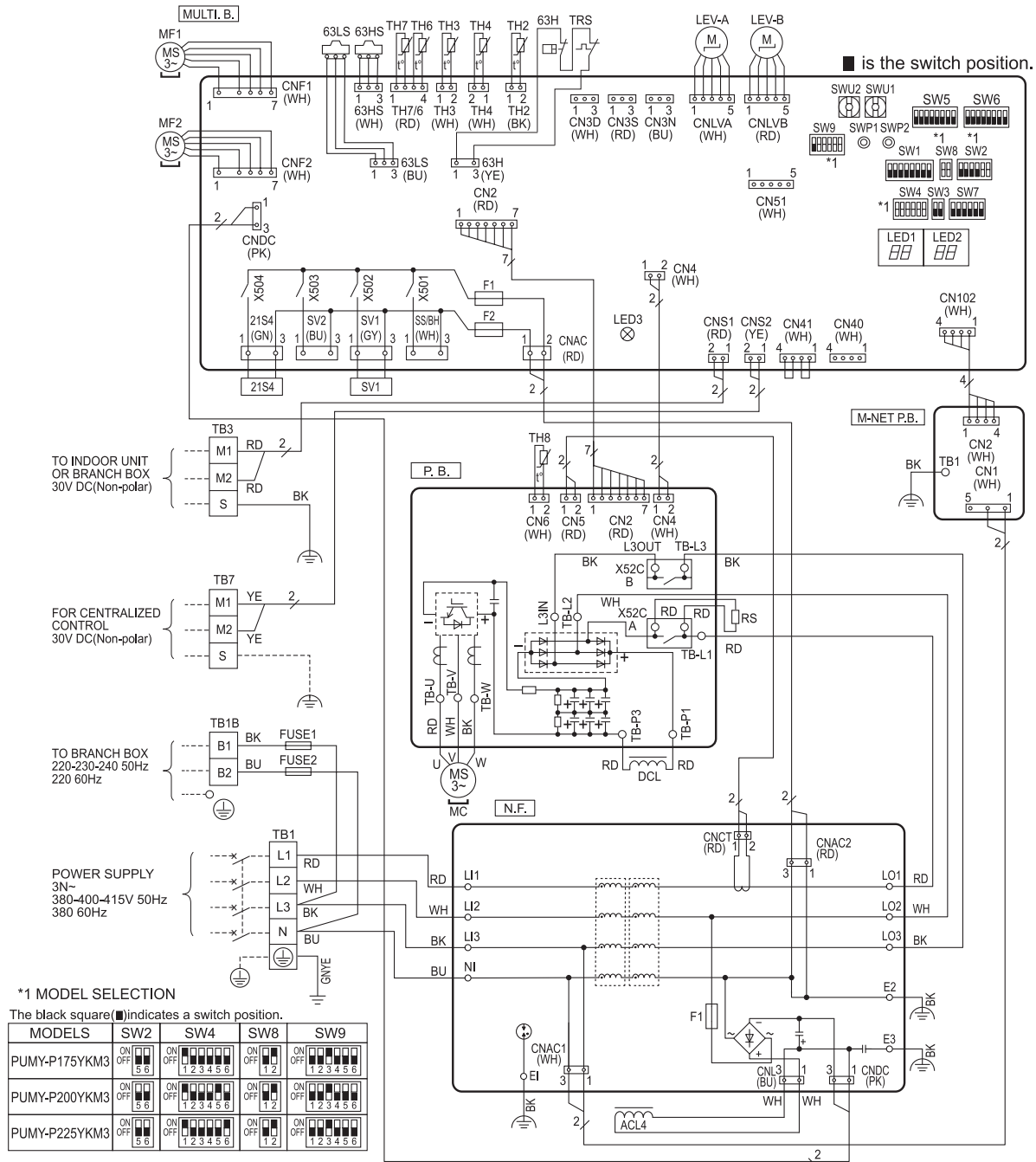
Unit: mm



PUMY-CP175, 200, 225YKM2-PA, DA(-BS)
PUMY-CP175, 200, 225YKM2-TH

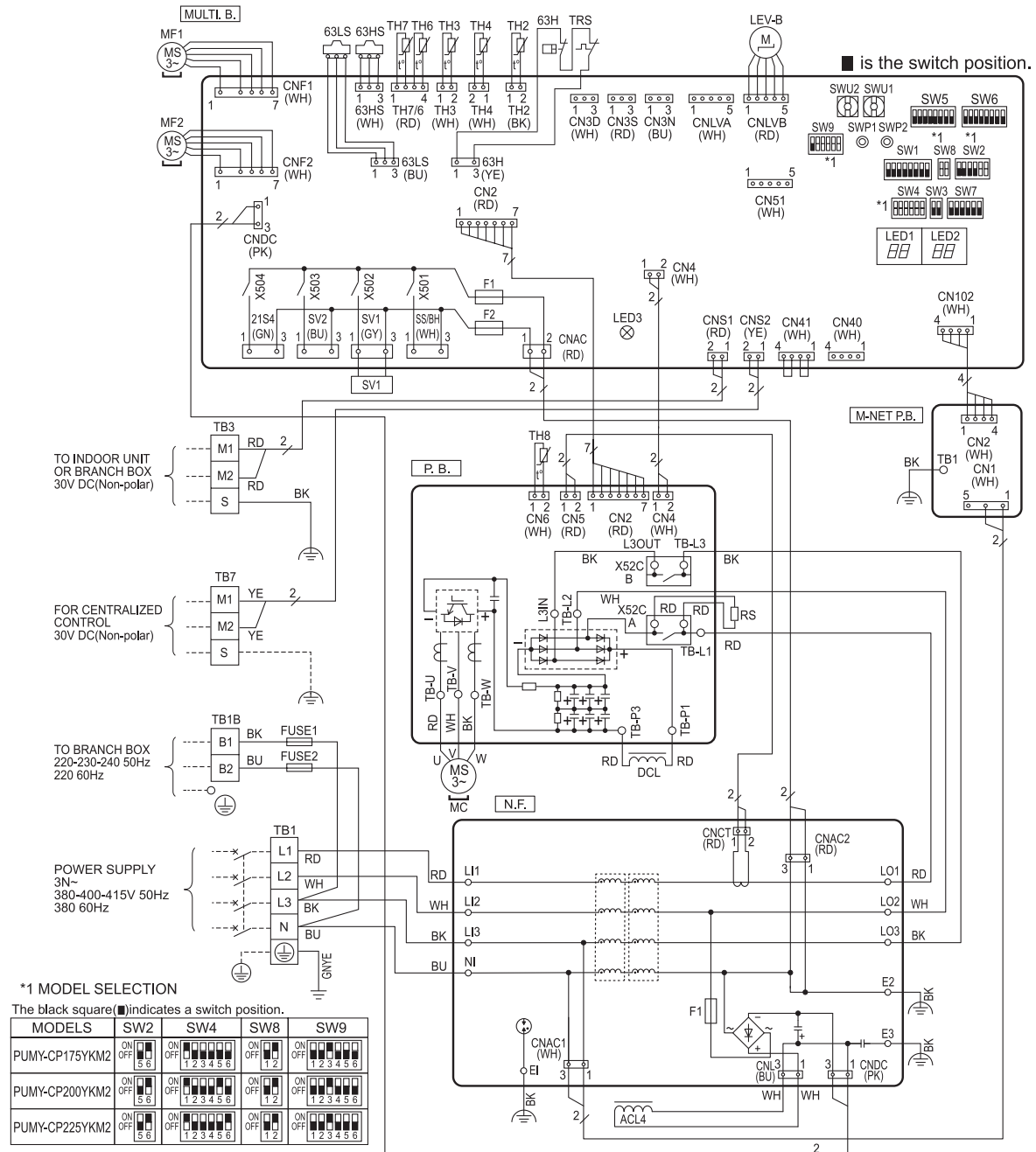


PUMY-P175, 200, 225YKM3-PA, DA-(BS)



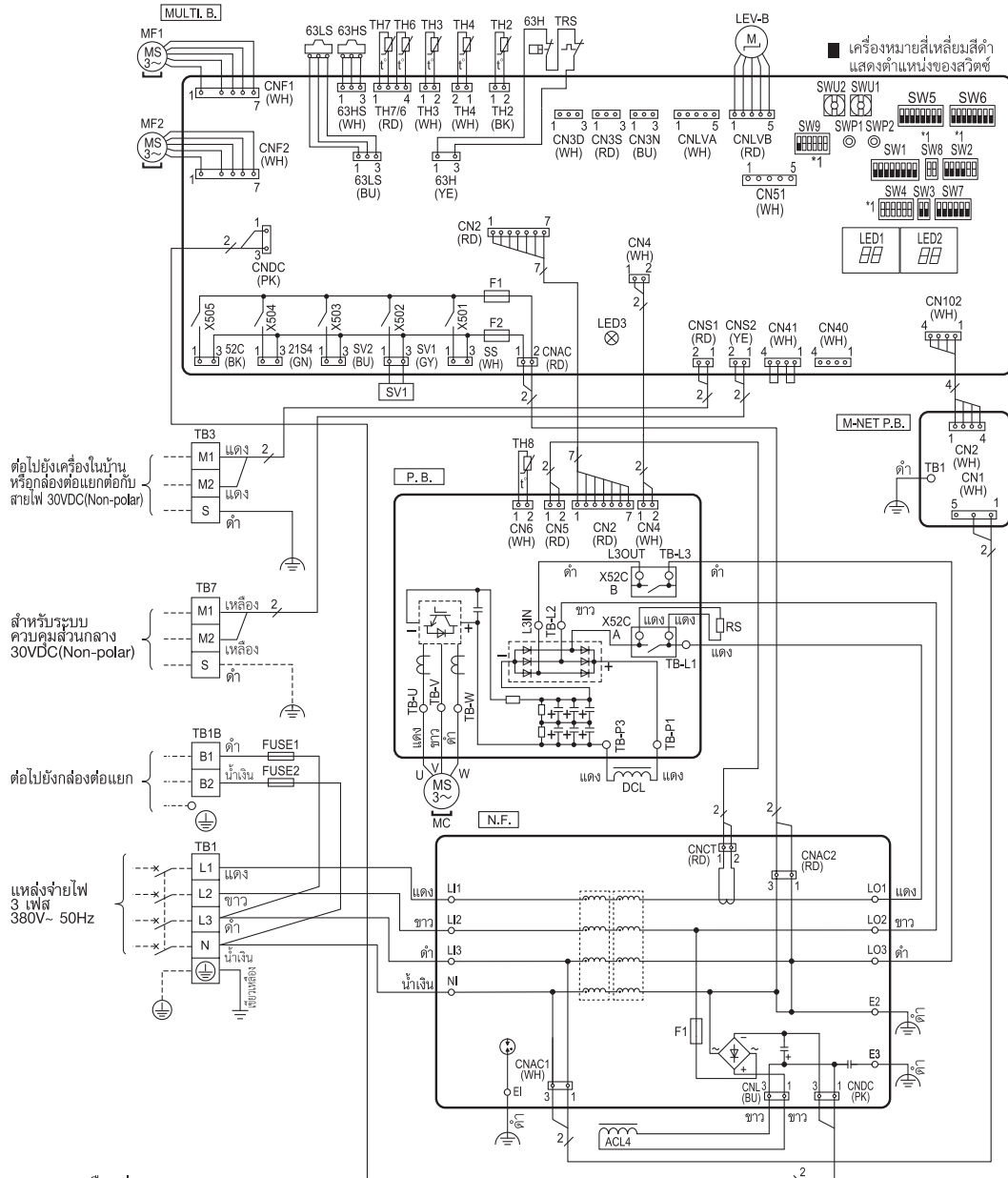
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block<Power Supply>	RS	Rush Current Protect Resistor	SW7	Switch<Function Selection>
TB1B	Terminal Block<Branch Box>	LEV-A, LEV-B	Linear Expansion Valve	SW8	Switch<Model Selection>
TB3	Terminal Block<Indoor/Outdoor, Branch Box/Outdoor Transmission Line>	ACL4	Reactor	SW9	Switch<Function/Model Selection>
TB7	Terminal Block<Centralized Control Transmission Line>	DCL	Reactor	SWP1	Switch<Display Selection>
FUSE1, FUSE2	Fuse<T20AL250V>	P.B.	Power Circuit Board	SWP2	Switch<Display Selection>
MC	Motor for Compressor	TB-U/V/W	Connection Terminal<U/V/W-Phase>	SWU1	Switch<Unit Address Selection, ones digit>
MF1, MF2	Fan Motor	TB-L1/L2/L3	Connection Terminal<L1/L2/L3-Power Supply>	SWU2	Switch<Unit Address Selection, tens digit>
63H	High Pressure Switch	TB-P1/P3	Connection Terminal	CNS1	Connector<Indoor/Outdoor, Branch Box/ Outdoor Transmission Line>
63HS	High Pressure Sensor	X52CA/B	52C Relay	CNS2	Connector<Centralized Control Transmission Line>
63LS	Low Pressure Sensor	N.F.	Noise Filter Circuit Board	SS/BH	Connector<Connection for Option>
SV1	Solenoid Valve Coil<Bypass Valve>	L01/L02/L03	Connection Terminal<L1/L2/L3-Power Supply>	CN3D	Connector<Connection for Option>
21S4	Solenoid Valve Coil<4-Way Valve>	U1/L2/L3/NI	Connection Terminal<L1/L2/L3-Power Supply>	CN3S	Connector<Connection for Option>
TH2	Thermistor<HIC Pipe>	EI, E2, E3	Connection Terminal<Electrical Parts Box>	CN3N	Connector<Connection for Option>
TH3	Thermistor<Outdoor Liquid Pipe>	F1	Fuse<T6.3AL250V>	CN51	Connector<Connection for Option>
TH4	Thermistor<Compressor>	MULTI.B.	Multi Controller Circuit Board	LED1, LED2	LED<Operation Inspection Display>
TH6	Thermistor<Suction Pipe>	SW1	Switch<Display Selection>	LED3	LED<Power Supply to Main Microcomputer>
TH7	Thermistor<Ambient>	SW2	Switch<Function/Model Selection>	F1, F2	Fuse<T6.3AL250V>
TH8	Thermistor<Heat Sink>	SW3	Switch<Test Run>	X501-505	Relay
TRS	Compressor protector	SW4	Switch<Model Selection>	M-NET P.B.	M-NET Power Circuit Board
		SW5	Switch<Function Selection>	TB1	Connection Terminal<Electrical Parts Box>
		SW6	Switch<Function Selection>		

PUMY-CP175, 200, 225YKM2-PA, DA(-BS)



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block<Power Supply>	LEV-B	Linear Expansion Valve	SW8	Switch<Model Selection>
TB1B	Terminal Block<Branch Box>	ACL4	Reactor	SW9	Switch<Function/Model Selection>
TB3	Terminal Block<Indoor/Outdoor, Branch Box/Outdoor Transmission Line>	DCL	Reactor	SWP1	Switch<Display Selection>
TB7	Terminal Block<Centralized Control Transmission Line>	P.B.	Power Circuit Board	SWP2	Switch<Display Selection>
FUSE1, FUSE2	Fuse<T20AL250V>	TB-U/W	Connection Terminal<U/V/W-Phase>	SWU1	Switch<Unit Address Selection, ones digit>
MC	Motor for Compressor	TB-L1/L2/L3	Connection Terminal<L1/L2/L3-Power Supply>	SWU2	Switch<Unit Address Selection, tens digit>
MF1, MF2	Fan Motor	TB-P1/P3	Connection Terminal	CNS1	Connector<Indoor/Outdoor, Branch Box/Outdoor Transmission Line>
63H	High Pressure Switch	X52CA/B	52C Relay	CNS2	Connector<Centralized Control Transmission Line>
63HS	High Pressure Sensor	N.F.	Noise Filter Circuit Board	SS/BH	Connector<Connection for Option>
63LS	Low Pressure Sensor	L01/L02/L03	Connection Terminal<L1/L2/L3-Power Supply>	CN3D	Connector<Connection for Option>
SV1	Solenoid Valve Coil<Bypass Valve>	L1/L2/L3/N1	Connection Terminal<L1/L2/L3-Power Supply>	CN3S	Connector<Connection for Option>
TH2	Thermistor<HIC Pipe>	E1, E2, E3	Connection Terminal<Electrical Parts Box>	CN3N	Connector<Connection for Option>
TH3	Thermistor<Outdoor Liquid Pipe>	F1	Fuse<T6.3AL250V>	CN51	Connector<Connection for Option>
TH4	Thermistor<Compressor>	MULTI.B.	Multi Controller Circuit Board	LED1, LED2	LED<Operation Inspection Display>
TH6	Thermistor<Suction Pipe>	SW1	Switch<Display Selection>	LED3	LED<Power Supply to Main Microcomputer>
TH7	Thermistor<Ambient>	SW2	Switch<Function/Model Selection>	F1, F2	Fuse<T6.3AL250V>
TH8	Thermistor<Heat Sink>	SW3	Switch<Test Run>	X501-505	Relay
TRS	Compressor protector	SW4	Switch<Model Selection>	M-NET P.B.	M-NET Power Circuit Board
RS	Rush Current Protect Resistor	SW5	Switch<Function Selection>	TB1	Connection Terminal<Electrical Parts Box>
		SW6	Switch<Function Selection>		
		SW7	Switch<Function Selection>		

PUMY-CP175, 200, 225YKM2-TH

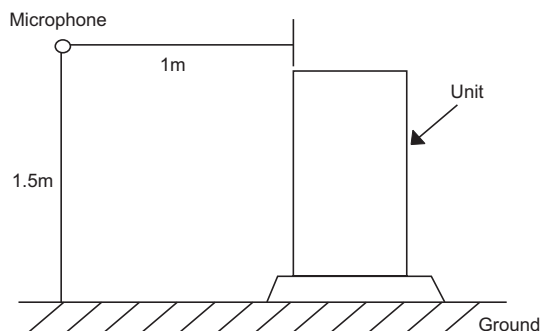
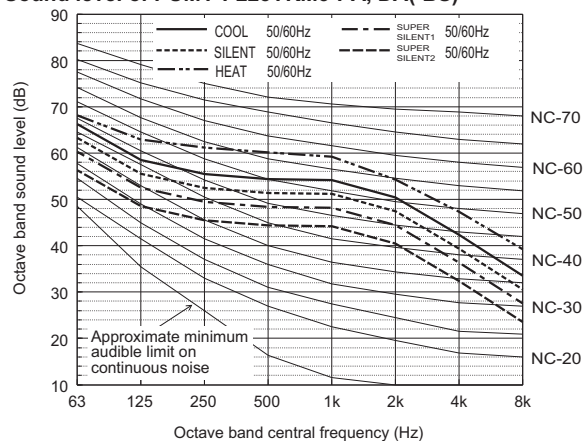


※1 การเลือกรุ่น

เครื่องหมาย (■) สีเหลี่ยมสีดำบ่งบอกถึงตำแหน่งของสวิตช์

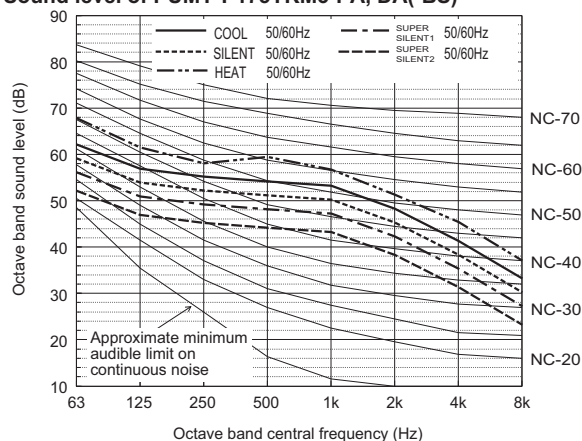
MODELS	SW2	SW4	SW8	SW9
PUMY-CP175YKM2	ON OFF 5 6 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6
PUMY-CP200YKM2	ON OFF 5 6 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6
PUMY-CP225YKM2	ON OFF 5 6 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6	ON OFF 1 2 3 4 5 6

สัญลักษณ์	ชื่อ	สัญลักษณ์	ชื่อ	สัญลักษณ์	ชื่อ
TB1	ฐานเสียบสายไฟ <แหล่งจ่ายไฟ>	RS	ตัวป้องกันกระแสไฟฟระชาก	SW6	สวิตช์ <เลือกการทำงาน>
TB3	ฐานเสียบสายไฟ <เครื่องในบ้าน/เครื่องนอกบ้าน, กล้องต่อแยก/สายสัญญาณของเครื่องนอกบ้าน>	LEV-B	วาล์วควบคุมดัน	SW7	สวิตช์ <เลือกการทำงาน>
TB7	ฐานเสียบสายไฟ <สายสัญญาณสำหรับระบบควบคุมส่วนกลาง>	ACL4	รีเลย์	SW8	สวิตช์ <เลือกการทำงาน>
FUSE1, FUSE2	ฟิวส์ <T20AL250V>	DCL	รีเลย์	SW9	สวิตช์ <เลือกการทำงาน/เลือกการทำงาน>
MC	มอเตอร์ของคอมเพรสเซอร์	P.B.	ปั๊ม	SWU1	สวิตช์ <การเลือกตำแหน่งที่อยู่ของชุดหลักหน่วย>
MF1, MF2	มอเตอร์พัดลม1, มอเตอร์พัดลม2	TB-U/V/W	ฐานเสียบสายไฟ <U/V/W-เพล>	SWU2	สวิตช์ <การเลือกตำแหน่งที่อยู่ของชุดหลัก>
63H	สวิตช์ป้องกันแรงดันสูง	TB-L1/L2/L3	ฐานเสียบสายไฟ <L1/L2/L3-แหล่งจ่ายไฟ>	CNS1	คอนเน็คเตอร์ <เครื่องในบ้าน/เครื่องนอกบ้าน, กล้องต่อแยก/สายสัญญาณของเครื่องนอกบ้าน>
63HS	ตัวตรวจจับแรงดันสูง	TB-P1/P3	ฐานเสียบสายไฟ <ชุดวงจรไฟฟ้า>	CNS2	คอนเน็คเตอร์ <สายสัญญาณสำหรับระบบควบคุมส่วนกลาง>
63LS	ตัวตรวจจับแรงดันต่ำ	X52CA/B	52C รีเลย์	SS	คอนเน็คเตอร์ <สำหรับต่ออุปกรณ์เสริม>
SV1	โซลินอยด์วาล์ว <Bypass Valve>	N.F.	แผ่นวงจรกรองสัญญาณรบกวน	CN3D	คอนเน็คเตอร์ <สำหรับต่ออุปกรณ์เสริม>
TH2	เทอร์มิสเตอร์ <ท่อ Hic>	L01/L02/L03	ฐานเสียบสายไฟ <L1/L2/L3-แหล่งจ่ายไฟ>	CN3S	คอนเน็คเตอร์ <สำหรับต่ออุปกรณ์เสริม>
TH3	เทอร์มิสเตอร์ <ท่อ Liquid ของเครื่องนอกบ้าน>	LI1/LI2/LI3/N	ฐานเสียบสายไฟ <L1/L2/L3-แหล่งจ่ายไฟ>	CN3N	คอนเน็คเตอร์ <สำหรับต่ออุปกรณ์เสริม>
TH4	เทอร์มิสเตอร์ <คอมเพรสเซอร์>	EI, E2, E3	เซ็นเซอร์สายไฟ <ชุดวงจรไฟฟ้า>	CN51	คอนเน็คเตอร์ <สำหรับต่ออุปกรณ์เสริม>
TH6	เทอร์มิสเตอร์ <ท่อ Suction>	MULTI.B.	แผ่นวงจรควบคุม	LED1, LED2	LED <ตรวจสอบการทำงาน>
TH7	เทอร์มิสเตอร์ <อุณหภูมิโดยตรง>	SW1	สวิตช์ <เลือกการทำงาน>	LED3	LED <แสดงไฟที่ส่งไปยังไมโครคอมพิวเตอร์>
TH8	เทอร์มิสเตอร์ <แผ่น Heat Sink ระบายความร้อน>	SW2	สวิตช์ <เลือกการทำงาน/เลือกการทำงาน>	F1, F2	ฟิวส์ <T6.3AL250V>
TRS	ตัวป้องกันคอมเพรสเซอร์	SW3	สวิตช์ <ทดสอบการทำงาน>	X501~505	รีเลย์
		SW4	สวิตช์ <เลือกการทำงาน>	M-NET P.B.	แผ่นวงจร M-NET
		SW5	สวิตช์ <เลือกการทำงาน>	TB1	ฐานเสียบสายไฟ <ชุดวงจรไฟฟ้า>

Measurement condition
PUMY-P175, 200, 225YKM3-PA, DA(-BS)

Sound level of PUMY-P225YKM3-PA, DA(-BS)


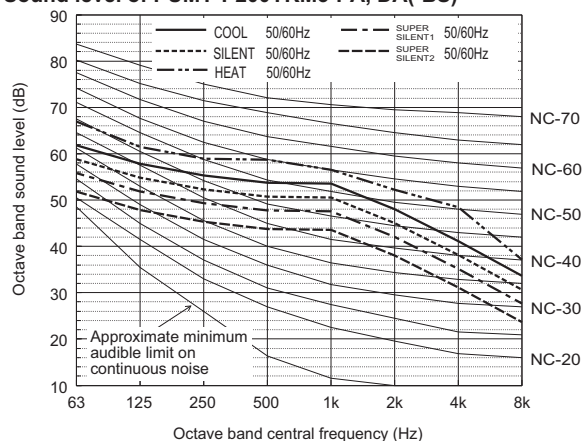
		63	125	250	500	1k	2k	4k	8k	dB(A)
HEATING	50/60Hz	68.2	62.9	61.2	60.2	59.2	54.3	47.3	39.2	63.0
COOLING	50/60Hz	66.3	58.5	55.5	54.4	54.2	50.4	42.3	33.5	58.0
SILENT	50/60Hz	63.3	55.5	52.5	51.4	51.2	47.4	39.3	30.5	55.0
SUPER SILENT1	50/60Hz	60.3	52.5	49.5	48.4	48.2	44.4	36.3	27.5	52.0
SUPER SILENT2	50/60Hz	56.3	48.5	45.5	44.4	44.2	40.4	32.3	23.5	48.0

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

Sound level of PUMY-P175YKM3-PA, DA(-BS)


		63	125	250	500	1k	2k	4k	8k	dB(A)
HEATING	50/60Hz	67.9	61.5	58.1	59.5	56.7	51.3	45.4	37.1	61.0
COOLING	50/60Hz	62.2	56.9	55.2	54.2	53.2	48.3	41.3	33.2	57.0
SILENT	50/60Hz	59.2	53.9	52.2	51.2	50.2	45.3	38.3	30.2	54.0
SUPER SILENT1	50/60Hz	56.2	50.9	49.2	48.2	47.2	42.3	35.3	27.2	51.0
SUPER SILENT2	50/60Hz	52.2	46.9	45.2	44.2	43.2	38.3	31.3	23.2	47.0

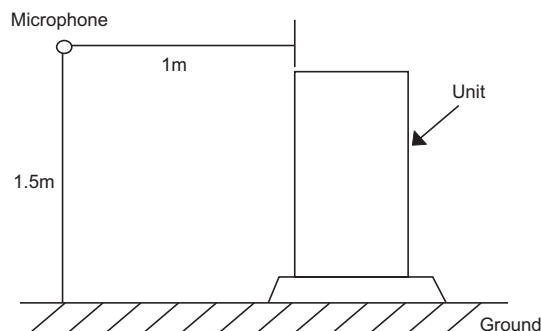
When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

Sound level of PUMY-P200YKM3-PA, DA(-BS)


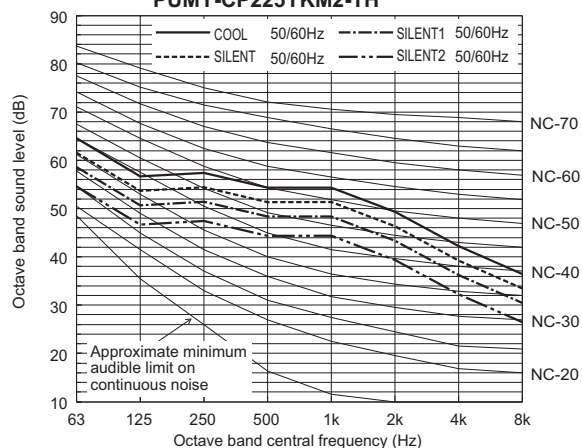
		63	125	250	500	1k	2k	4k	8k	dB(A)
HEATING	50/60Hz	66.9	61.4	58.9	58.7	56.5	52.2	48.4	37.1	61.0
COOLING	50/60Hz	61.8	57.8	55.3	53.7	53.5	48.0	41.1	33.6	57.0
SILENT	50/60Hz	58.8	54.8	52.3	50.7	50.5	45.0	38.1	30.6	54.0
SUPER SILENT1	50/60Hz	55.8	51.8	49.3	47.7	47.5	42.0	35.1	27.6	51.0
SUPER SILENT2	50/60Hz	51.8	47.8	45.3	43.7	43.5	38.0	31.1	23.6	47.0

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

Measurement condition
PUMY-CP175, 200, 225YKM2-PA, DA(-BS)
PUMY-CP175, 200, 225YKM2-TH



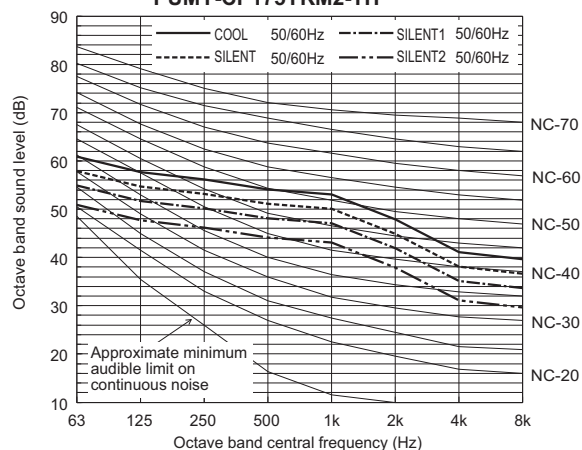
Sound level of PUMY-CP225YKM2-PA, DA(-BS)
PUMY-CP225YKM2-TH



		63	125	250	500	1k	2k	4k	8k	dB(A)
COOLING	50/60Hz	64.6	56.7	57.4	54.4	54.4	49.3	42.2	36.4	58.0
SILENT	50/60Hz	61.6	53.7	54.4	51.4	51.4	46.3	39.2	33.4	55.0
SUPER SILENT1	50/60Hz	58.6	50.7	51.4	48.4	48.4	43.3	36.2	30.4	52.0
SUPER SILENT2	50/60Hz	54.6	46.7	47.4	44.4	44.4	39.3	32.2	26.4	48.0

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

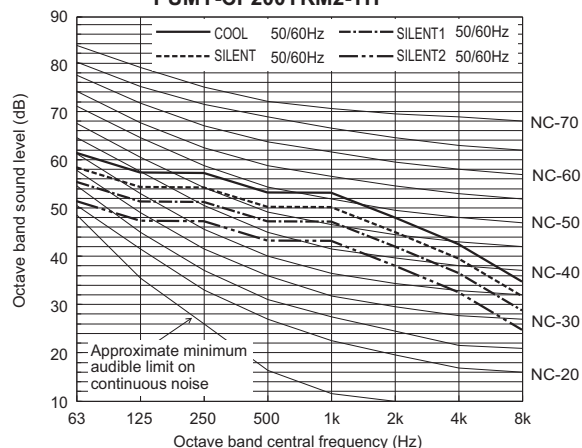
Sound level of PUMY-CP175YKM2-PA, DA(-BS)
PUMY-CP175YKM2-TH



		63	125	250	500	1k	2k	4k	8k	dB(A)
COOLING	50/60Hz	60.9	57.7	56.2	54.1	53.1	47.9	41.1	39.6	57.0
SILENT	50/60Hz	57.9	54.7	53.2	51.1	50.1	44.9	38.1	36.6	54.0
SUPER SILENT1	50/60Hz	54.9	51.7	50.2	48.1	47.1	41.9	35.1	33.6	51.0
SUPER SILENT2	50/60Hz	50.9	47.7	46.2	44.1	43.1	37.9	31.1	29.6	47.0

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

Sound level of PUMY-CP200YKM2-PA, DA(-BS)
PUMY-CP200YKM2-TH

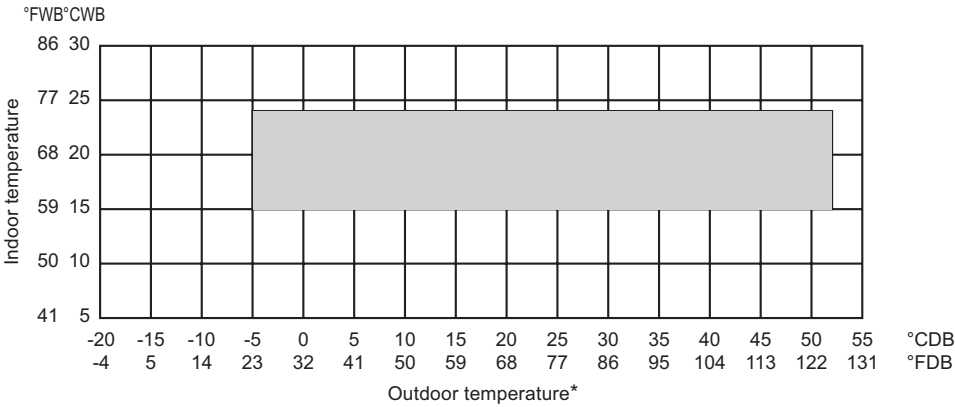


		63	125	250	500	1k	2k	4k	8k	dB(A)
COOLING	50/60Hz	61.4	57.3	57.2	53.2	53.2	48.0	42.5	34.7	57.0
SILENT	50/60Hz	58.4	54.3	54.2	50.2	50.2	45.0	39.5	31.7	54.0
SUPER SILENT1	50/60Hz	55.4	51.3	51.2	47.2	47.2	42.0	36.5	28.7	51.0
SUPER SILENT2	50/60Hz	51.4	47.3	47.2	43.2	43.2	38.0	32.5	24.7	47.0

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

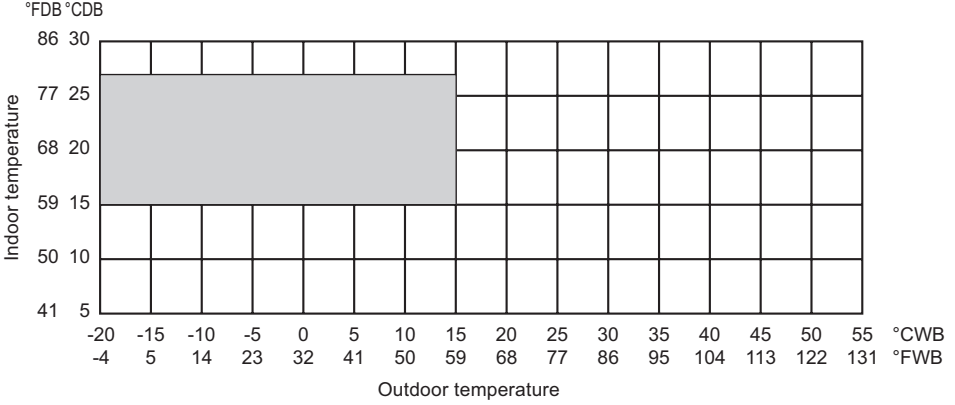
PUMY-P175, 200, 225YKM3-PA, DA(-BS)

• Cooling



* 10 to 52°FDB (5 to 12°CDB): When connecting following models such as PKFY-P15/20/25/32VLM-E, PFFY-P20/25/32VKM-E, PFFY-P20/25/32VLE(R)M(M)-E, PFFY-P20/25/32VCM-E, PEFY-P25/40/63/71VMA4-E, and M series, S series, and P series type indoor unit.

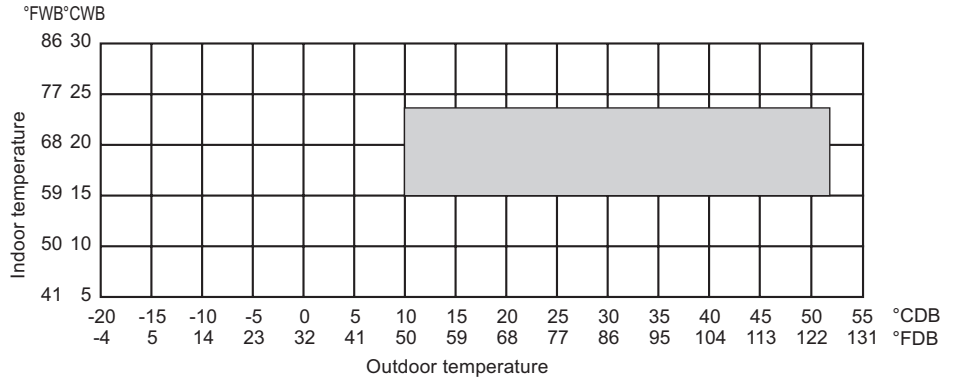
• Heating



PUMY-CP175, 200, 225YKM2-PA, DA(-BS)

PUMY-CP175, 200, 225YKM2-TH

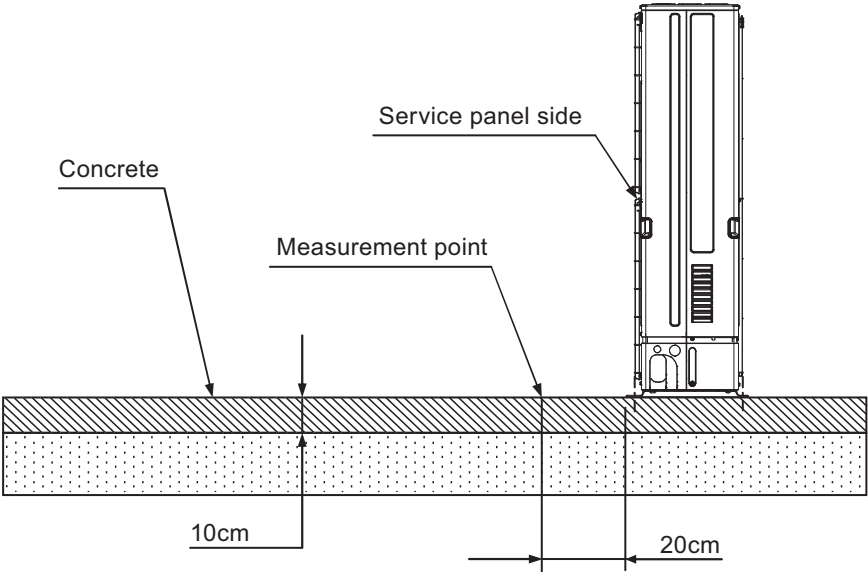
• Cooling



PUMY-P-YKM3, PUMY-CP-YKM2

Measurement condition

- Measurement frequency: 1 Hz-80 Hz
- Measurement point: Ground surface 20 cm away from the unit leg
- Installation condition: Direct installation on the concrete floor
- Power source: 3-phase 4-wire 380-400-415V, 50Hz/380V, 60Hz
- Operation condition: JIS condition (cooling, heating)
- Measurement device: Vibration level meter for vibration pollution VM-1220C (JIS-compliant product)



Vibration level

Model	Vibration level (dB)
PUMY-P175YKM3-PA, DA(-BS)	42
PUMY-P200YKM3-PA, DA(-BS)	43
PUMY-P225YKM3-PA, DA(-BS)	44
PUMY-CP175YKM2-PA, DA(-BS) PUMY-CP175YKM2-TH	42
PUMY-CP200YKM2-PA, DA(-BS) PUMY-CP200YKM2-TH	43
PUMY-CP225YKM2-PA, DA(-BS) PUMY-CP225YKM2-TH	44

* Vibration level varies depending on the conditions of actual installation site.

8-1. Correction by temperature/total indoor

8-1-1. Cooling capacity

PUMY-P175YKM3-PA,DA(-BS)/PUMY-CP175YKM2-PA,DA(-BS)/PUMY-CP175YKM2-TH

TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor air temp.	Indoor air temp.													
		22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC
130	-5.0	16.78	2.01	17.99	2.27	20.40	3.02	21.61	3.75	22.26	4.55	23.56	4.68	24.87	4.82
	0.0	16.78	2.02	17.99	2.27	20.40	3.03	21.61	3.74	22.26	4.54	23.56	4.68	24.87	4.81
	5.0	16.78	2.02	17.99	2.28	20.40	3.04	21.61	3.73	22.26	4.54	23.56	4.67	24.87	4.80
	10.0	16.78	2.03	17.99	2.29	20.40	3.05	21.61	3.72	22.26	4.54	23.56	4.66	24.87	4.79
	12.0	16.78	2.03	17.99	2.29	20.40	3.06	21.61	3.72	22.26	4.54	23.56	4.66	24.87	4.79
	14.0	16.78	2.03	17.99	2.29	20.40	3.07	21.61	3.72	22.26	4.54	23.56	4.66	24.87	4.78
	16.0	16.78	2.04	17.99	2.29	20.40	3.07	21.61	3.71	22.26	4.53	23.56	4.66	24.87	4.78
	18.0	16.78	2.04	17.99	2.30	20.40	3.08	21.61	3.71	22.26	4.53	23.56	4.65	24.87	4.78
	20.0	16.78	2.04	17.99	2.30	20.40	3.08	21.61	3.71	22.26	4.53	23.56	4.65	24.87	4.77
	21.0	16.76	2.12	17.96	2.39	20.37	3.19	21.58	3.82	22.23	4.59	23.53	4.71	24.84	4.83
	23.0	16.71	2.26	17.92	2.58	20.32	3.42	21.52	4.04	22.17	4.71	23.47	4.83	24.77	4.95
	25.0	16.67	2.41	17.87	2.77	20.27	3.64	21.47	4.26	22.11	4.82	23.41	4.95	24.71	5.07
	27.0	16.63	2.56	17.82	2.96	20.21	3.87	21.41	4.47	22.06	4.94	23.35	5.07	24.64	5.19
	29.0	16.58	2.71	17.78	3.15	20.16	4.09	21.35	4.69	22.00	5.06	23.29	5.18	24.58	5.31
	31.0	16.54	2.86	17.73	3.34	20.11	4.32	21.30	4.91	21.94	5.18	23.23	5.30	24.51	5.43
	32.0	16.52	2.93	17.71	3.43	20.08	4.43	21.27	5.02	21.91	5.23	23.19	5.36	24.48	5.49
	33.0	16.50	3.00	17.68	3.53	20.05	4.54	21.24	5.13	21.88	5.29	23.16	5.42	24.45	5.55
	35.0	16.45	3.15	17.63	3.72	20.00	4.77	21.18	5.35	21.82	5.41	23.10	5.54	24.38	5.67
	37.0	16.20	3.30	17.37	3.91	19.70	4.99	20.87	5.51	21.50	5.57	22.76	5.30	24.02	5.02
	39.0	15.25	3.45	16.35	4.09	18.54	5.20	19.64	4.95	20.23	4.90	21.42	4.62	22.60	4.33
	40.0	14.77	3.52	15.84	4.18	17.96	4.84	19.02	4.67	19.60	4.56	20.75	4.27	21.90	3.99
	42.0	13.31	3.63	14.27	4.36	16.19	4.12	17.14	3.99	17.66	3.89	18.70	3.66	19.73	3.44
	43.0	12.59	3.69	13.49	3.96	15.30	3.77	16.21	3.66	16.69	3.55	17.67	3.36	18.65	3.16
	46.0	10.40	2.98	11.15	2.76	12.64	2.70	13.39	2.65	13.79	2.54	14.60	2.44	15.41	2.34
	52.0	6.02	1.22	6.45	1.12	7.32	1.08	7.75	1.06	7.99	0.95	8.46	0.96	8.92	0.97
120	-5.0	16.46	1.97	17.65	2.22	20.02	2.95	21.20	3.66	21.84	4.45	23.12	4.58	24.40	4.71
	0.0	16.46	1.97	17.65	2.22	20.02	2.96	21.20	3.66	21.84	4.45	23.12	4.57	24.40	4.70
	5.0	16.46	1.98	17.65	2.23	20.02	2.98	21.20	3.65	21.84	4.44	23.12	4.57	24.40	4.69
	10.0	16.46	1.99	17.65	2.24	20.02	2.99	21.20	3.64	21.84	4.44	23.12	4.56	24.40	4.69
	12.0	16.46	1.99	17.65	2.24	20.02	2.99	21.20	3.64	21.84	4.44	23.12	4.56	24.40	4.68
	14.0	16.46	1.99	17.65	2.24	20.02	3.00	21.20	3.64	21.84	4.44	23.12	4.56	24.40	4.68
	16.0	16.46	1.99	17.65	2.25	20.02	3.00	21.20	3.63	21.84	4.44	23.12	4.56	24.40	4.68
	18.0	16.46	1.99	17.65	2.25	20.02	3.01	21.20	3.63	21.84	4.44	23.12	4.55	24.40	4.67
	20.0	16.46	2.00	17.65	2.25	20.02	3.01	21.20	3.63	21.84	4.43	23.12	4.55	24.40	4.67
	21.0	16.44	2.07	17.63	2.34	19.99	3.13	21.17	3.73	21.81	4.49	23.09	4.61	24.37	4.73
	23.0	16.40	2.21	17.58	2.53	19.94	3.35	21.12	3.95	21.75	4.61	23.03	4.72	24.31	4.84
	25.0	16.36	2.36	17.53	2.71	19.89	3.57	21.06	4.16	21.70	4.72	22.97	4.84	24.24	4.96
	27.0	16.31	2.50	17.49	2.90	19.83	3.79	21.01	4.38	21.64	4.83	22.91	4.96	24.18	5.08
	29.0	16.27	2.65	17.44	3.08	19.78	4.01	20.95	4.59	21.58	4.95	22.85	5.07	24.11	5.19
	31.0	16.23	2.79	17.39	3.27	19.73	4.23	20.90	4.81	21.53	5.06	22.79	5.19	24.05	5.31
	32.0	16.21	2.87	17.37	3.36	19.70	4.34	20.87	4.91	21.50	5.12	22.76	5.24	24.02	5.37
	33.0	16.19	2.94	17.35	3.45	19.68	4.45	20.84	5.02	21.47	5.18	22.73	5.30	23.99	5.43
	35.0	16.14	3.08	17.30	3.64	19.62	4.67	20.78	5.23	21.41	5.29	22.67	5.42	23.92	5.54
	37.0	15.90	3.23	17.04	3.82	19.33	4.88	20.47	5.39	21.09	5.45	22.33	5.18	23.56	4.91
	39.0	14.96	3.37	16.04	4.00	18.19	5.09	19.27	4.84	19.85	4.80	21.01	4.52	22.18	4.24
	40.0	14.50	3.44	15.54	4.09	17.62	4.73	18.66	4.56	19.23	4.47	20.36	4.18	21.48	3.90
	42.0	13.06	3.55	14.00	4.27	15.88	4.03	16.82	3.91	17.33	3.80	18.35	3.58	19.36	3.36
	43.0	12.35	3.61	13.24	3.88	15.01	3.69	15.90	3.58	16.38	3.47	17.34	3.28	18.30	3.10
	46.0	10.20	2.92	10.94	2.70	12.40	2.64	13.14	2.60	13.53	2.48	14.33	2.39	15.12	2.29
	52.0	5.91	1.19	6.33	1.09	7.18	1.06	7.61	1.04	7.84	0.93	8.30	0.94	8.76	0.95

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

8. CAPACITY TABLES

S-Series

PUMY-P175YKM3-PA,DA(-BS)/PUMY-CP175YKM2-PA,DA(-BS)/PUMY-CP175YKM2-TH

TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor air temp.	Indoor air temp.													
		22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC
110	-5.0	16.15	1.92	17.31	2.17	19.63	2.89	20.79	3.58	21.42	4.35	22.68	4.48	23.93	4.61
	0.0	16.15	1.93	17.31	2.18	19.63	2.90	20.79	3.58	21.42	4.35	22.68	4.47	23.93	4.60
	5.0	16.15	1.94	17.31	2.18	19.63	2.91	20.79	3.57	21.42	4.35	22.68	4.47	23.93	4.59
	10.0	16.15	1.94	17.31	2.19	19.63	2.92	20.79	3.56	21.42	4.34	22.68	4.46	23.93	4.58
	12.0	16.15	1.94	17.31	2.19	19.63	2.93	20.79	3.56	21.42	4.34	22.68	4.46	23.93	4.58
	14.0	16.15	1.95	17.31	2.19	19.63	2.93	20.79	3.56	21.42	4.34	22.68	4.46	23.93	4.58
	16.0	16.15	1.95	17.31	2.20	19.63	2.94	20.79	3.55	21.42	4.34	22.68	4.46	23.93	4.57
	18.0	16.15	1.95	17.31	2.20	19.63	2.94	20.79	3.55	21.42	4.34	22.68	4.45	23.93	4.57
	20.0	16.15	1.95	17.31	2.20	19.63	2.95	20.79	3.55	21.42	4.34	22.68	4.45	23.93	4.57
	21.0	16.13	2.02	17.29	2.29	19.61	3.06	20.77	3.65	21.39	4.39	22.65	4.51	23.90	4.62
	23.0	16.09	2.17	17.24	2.47	19.56	3.27	20.71	3.86	21.34	4.50	22.59	4.62	23.84	4.74
	25.0	16.04	2.31	17.20	2.65	19.50	3.49	20.66	4.07	21.28	4.62	22.53	4.73	23.78	4.85
	27.0	16.00	2.45	17.15	2.83	19.45	3.70	20.60	4.28	21.23	4.73	22.47	4.85	23.71	4.97
	29.0	15.96	2.59	17.11	3.01	19.40	3.92	20.55	4.49	21.17	4.84	22.41	4.96	23.65	5.08
	31.0	15.92	2.73	17.06	3.19	19.35	4.13	20.49	4.70	21.11	4.95	22.35	5.07	23.59	5.19
	32.0	15.90	2.80	17.04	3.28	19.32	4.24	20.47	4.81	21.09	5.01	22.32	5.13	23.56	5.25
	33.0	15.87	2.87	17.02	3.37	19.30	4.35	20.44	4.91	21.06	5.06	22.29	5.19	23.53	5.31
	35.0	15.83	3.02	16.97	3.55	19.25	4.56	20.39	5.12	21.00	5.18	22.23	5.30	23.46	5.42
	37.0	15.59	3.16	16.72	3.74	18.96	4.77	20.08	5.27	20.69	5.33	21.90	5.07	23.11	4.80
	39.0	14.68	3.30	15.73	3.91	17.84	4.98	18.90	4.73	19.47	4.69	20.61	4.42	21.75	4.14
	40.0	14.22	3.37	15.24	4.00	17.28	4.63	18.31	4.46	18.86	4.37	19.97	4.09	21.07	3.81
	42.0	12.81	3.47	13.74	4.18	15.58	3.95	16.50	3.82	17.00	3.72	17.99	3.51	18.99	3.29
	43.0	12.11	3.53	12.98	3.79	14.72	3.60	15.60	3.50	16.07	3.40	17.01	3.21	17.95	3.03
	46.0	10.01	2.85	10.73	2.64	12.16	2.58	12.88	2.54	13.27	2.43	14.05	2.33	14.83	2.24
	52.0	5.79	1.17	6.21	1.07	7.04	1.03	7.46	1.01	7.69	0.91	8.14	0.92	8.59	0.93
100	-5.0	15.84	1.88	16.98	2.12	19.26	2.82	20.40	3.50	21.02	4.25	22.25	4.38	23.48	4.50
	0.0	15.84	1.88	16.98	2.12	19.26	2.83	20.40	3.49	21.02	4.25	22.25	4.37	23.48	4.49
	5.0	15.84	1.89	16.98	2.13	19.26	2.84	20.40	3.49	21.02	4.24	22.25	4.36	23.48	4.48
	10.0	15.84	1.90	16.98	2.14	19.26	2.85	20.40	3.48	21.02	4.24	22.25	4.36	23.48	4.48
	12.0	15.84	1.90	16.98	2.14	19.26	2.86	20.40	3.48	21.02	4.24	22.25	4.36	23.48	4.47
	14.0	15.84	1.90	16.98	2.14	19.26	2.86	20.40	3.47	21.02	4.24	22.25	4.35	23.48	4.47
	16.0	15.84	1.90	16.98	2.14	19.26	2.87	20.40	3.47	21.02	4.24	22.25	4.35	23.48	4.47
	18.0	15.84	1.91	16.98	2.15	19.26	2.87	20.40	3.47	21.02	4.24	22.25	4.35	23.48	4.46
	20.0	15.84	1.91	16.98	2.15	19.26	2.88	20.40	3.47	21.02	4.24	22.25	4.35	23.48	4.46
	21.0	15.82	1.98	16.96	2.24	19.24	2.98	20.37	3.57	20.99	4.29	22.22	4.40	23.45	4.52
	23.0	15.78	2.12	16.92	2.41	19.19	3.20	20.32	3.77	20.93	4.40	22.16	4.51	23.39	4.63
	25.0	15.74	2.25	16.87	2.59	19.13	3.41	20.27	3.98	20.88	4.51	22.10	4.62	23.33	4.74
	27.0	15.70	2.39	16.83	2.77	19.08	3.62	20.21	4.18	20.82	4.62	22.04	4.73	23.27	4.85
	29.0	15.66	2.53	16.78	2.94	19.03	3.83	20.16	4.39	20.77	4.73	21.99	4.84	23.20	4.96
	31.0	15.62	2.67	16.74	3.12	18.98	4.04	20.11	4.59	20.71	4.84	21.93	4.95	23.14	5.07
	32.0	15.59	2.74	16.72	3.21	18.96	4.14	20.08	4.69	20.69	4.89	21.90	5.01	23.11	5.13
	33.0	15.57	2.81	16.69	3.30	18.93	4.25	20.05	4.80	20.66	4.95	21.87	5.06	23.08	5.18
	35.0	15.53	2.95	16.65	3.47	18.88	4.46	20.00	5.00	20.60	5.06	21.81	5.18	23.02	5.30
	37.0	15.30	3.09	16.40	3.65	18.60	4.66	19.70	5.15	20.29	5.21	21.48	4.95	22.67	4.69
	39.0	14.40	3.22	15.43	3.82	17.50	4.86	18.54	4.62	19.10	4.58	20.22	4.31	21.34	4.05
	40.0	13.95	3.29	14.95	3.91	16.96	4.52	17.96	4.36	18.50	4.27	19.59	4.00	20.67	3.73
	42.0	12.57	3.39	13.47	4.08	15.28	3.85	16.19	3.73	16.68	3.63	17.65	3.42	18.63	3.21
	43.0	11.88	3.45	12.74	3.71	14.45	3.52	15.30	3.42	15.76	3.32	16.69	3.14	17.61	2.96
	46.0	9.82	2.79	10.52	2.58	11.93	2.52	12.64	2.48	13.02	2.37	13.79	2.28	14.55	2.19
	52.0	5.68	1.14	6.09	1.05	6.91	1.01	7.32	0.99	7.54	0.89	7.98	0.90	8.43	0.91

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

8. CAPACITY TABLES

S-Series

PUMY-P175YKM3-PA,DA(-BS)/PUMY-CP175YKM2-PA,DA(-BS)/PUMY-CP175YKM2-TH

TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor air temp.	Indoor air temp.													
		22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC
90	-5.0	14.25	1.67	15.27	1.88	17.32	2.50	18.34	3.10	18.90	3.77	20.00	3.88	21.11	3.99
	0.0	14.25	1.67	15.27	1.88	17.32	2.51	18.34	3.09	18.90	3.76	20.00	3.87	21.11	3.98
	5.0	14.25	1.68	15.27	1.89	17.32	2.52	18.34	3.09	18.90	3.76	20.00	3.87	21.11	3.97
	10.0	14.25	1.68	15.27	1.89	17.32	2.53	18.34	3.08	18.90	3.76	20.00	3.86	21.11	3.97
	12.0	14.25	1.68	15.27	1.90	17.32	2.53	18.34	3.08	18.90	3.76	20.00	3.86	21.11	3.96
	14.0	14.25	1.68	15.27	1.90	17.32	2.54	18.34	3.08	18.90	3.76	20.00	3.86	21.11	3.96
	16.0	14.25	1.69	15.27	1.90	17.32	2.54	18.34	3.07	18.90	3.75	20.00	3.86	21.11	3.96
	18.0	14.25	1.69	15.27	1.90	17.32	2.55	18.34	3.07	18.90	3.75	20.00	3.85	21.11	3.95
	20.0	14.25	1.69	15.27	1.90	17.32	2.55	18.34	3.07	18.90	3.75	20.00	3.85	21.11	3.95
	21.0	14.23	1.75	15.25	1.98	17.30	2.64	18.32	3.16	18.87	3.80	19.98	3.90	21.08	4.00
	23.0	14.19	1.87	15.21	2.14	17.25	2.83	18.27	3.34	18.82	3.90	19.93	4.00	21.03	4.10
	25.0	14.15	2.00	15.17	2.30	17.20	3.02	18.22	3.52	18.77	3.99	19.87	4.10	20.97	4.20
	27.0	14.11	2.12	15.13	2.45	17.16	3.20	18.17	3.70	18.72	4.09	19.82	4.19	20.92	4.30
	29.0	14.08	2.24	15.09	2.61	17.11	3.39	18.13	3.89	18.67	4.19	19.77	4.29	20.86	4.40
	31.0	14.04	2.36	15.05	2.76	17.07	3.58	18.08	4.07	18.62	4.29	19.72	4.39	20.81	4.49
	32.0	14.02	2.43	15.03	2.84	17.05	3.67	18.05	4.16	18.60	4.33	19.69	4.44	20.78	4.54
	33.0	14.00	2.49	15.01	2.92	17.02	3.76	18.03	4.25	18.58	4.38	19.66	4.49	20.75	4.59
	35.0	13.97	2.61	14.97	3.08	16.98	3.95	17.98	4.43	18.53	4.48	19.61	4.59	20.70	4.69
	37.0	13.76	2.74	14.75	3.24	16.72	4.13	17.71	4.56	18.25	4.62	19.32	4.39	20.39	4.16
	39.0	12.95	2.85	13.88	3.39	15.74	4.31	16.67	4.10	17.17	4.06	18.18	3.82	19.19	3.59
	40.0	12.54	2.91	13.44	3.46	15.25	4.00	16.15	3.86	16.64	3.78	17.61	3.54	18.59	3.30
	42.0	11.30	3.01	12.12	3.61	13.74	3.41	14.55	3.31	14.99	3.22	15.87	3.03	16.75	2.85
	43.0	10.68	3.05	11.45	3.28	12.99	3.12	13.76	3.03	14.17	2.94	15.00	2.78	15.83	2.62
	46.0	8.83	2.47	9.46	2.29	10.73	2.23	11.37	2.20	11.71	2.10	12.39	2.02	13.08	1.94
	52.0	5.11	1.01	5.48	0.93	6.21	0.89	6.58	0.88	6.78	0.78	7.18	0.79	7.58	0.81
80	-5.0	12.66	1.47	13.57	1.65	15.39	2.20	16.30	2.73	16.80	3.32	17.78	3.41	18.77	3.51
	0.0	12.66	1.47	13.57	1.66	15.39	2.21	16.30	2.73	16.80	3.31	17.78	3.41	18.77	3.51
	5.0	12.66	1.48	13.57	1.66	15.39	2.22	16.30	2.72	16.80	3.31	17.78	3.41	18.77	3.50
	10.0	12.66	1.48	13.57	1.67	15.39	2.23	16.30	2.71	16.80	3.31	17.78	3.40	18.77	3.49
	12.0	12.66	1.48	13.57	1.67	15.39	2.23	16.30	2.71	16.80	3.31	17.78	3.40	18.77	3.49
	14.0	12.66	1.48	13.57	1.67	15.39	2.24	16.30	2.71	16.80	3.31	17.78	3.40	18.77	3.49
	16.0	12.66	1.48	13.57	1.67	15.39	2.24	16.30	2.71	16.80	3.31	17.78	3.40	18.77	3.49
	18.0	12.66	1.49	13.57	1.68	15.39	2.24	16.30	2.71	16.80	3.31	17.78	3.39	18.77	3.48
	20.0	12.66	1.49	13.57	1.68	15.39	2.25	16.30	2.70	16.80	3.30	17.78	3.39	18.77	3.48
	21.0	12.65	1.54	13.56	1.75	15.37	2.33	16.28	2.78	16.77	3.35	17.76	3.44	18.74	3.52
	23.0	12.61	1.65	13.52	1.88	15.33	2.49	16.24	2.94	16.73	3.43	17.71	3.52	18.69	3.61
	25.0	12.58	1.76	13.48	2.02	15.29	2.66	16.20	3.10	16.69	3.52	17.67	3.61	18.64	3.70
	27.0	12.55	1.87	13.45	2.16	15.25	2.82	16.16	3.26	16.64	3.60	17.62	3.69	18.59	3.78
	29.0	12.51	1.97	13.41	2.30	15.21	2.99	16.11	3.42	16.60	3.69	17.57	3.78	18.55	3.87
	31.0	12.48	2.08	13.38	2.43	15.17	3.15	16.07	3.58	16.56	3.77	17.53	3.87	18.50	3.96
	32.0	12.46	2.14	13.36	2.50	15.15	3.23	16.05	3.66	16.53	3.82	17.50	3.91	18.47	4.00
	33.0	12.45	2.19	13.34	2.57	15.13	3.31	16.03	3.74	16.51	3.86	17.48	3.95	18.45	4.05
	35.0	12.41	2.30	13.31	2.71	15.09	3.48	15.98	3.90	16.47	3.94	17.43	4.04	18.40	4.13
	37.0	12.23	2.41	13.11	2.85	14.87	3.64	15.74	4.02	16.22	4.07	17.17	3.86	18.12	3.66
	39.0	11.51	2.51	12.34	2.98	13.99	3.80	14.82	3.61	15.27	3.57	16.16	3.37	17.06	3.16
	40.0	11.15	2.57	11.95	3.05	13.55	3.53	14.35	3.40	14.79	3.33	15.65	3.12	16.52	2.91
	42.0	10.05	2.65	10.77	3.18	12.21	3.01	12.94	2.91	13.33	2.84	14.11	2.67	14.89	2.51
	43.0	9.50	2.69	10.18	2.89	11.55	2.75	12.23	2.67	12.60	2.59	13.34	2.45	14.07	2.31
	46.0	7.85	2.18	8.41	2.02	9.54	1.97	10.10	1.94	10.41	1.85	11.02	1.78	11.63	1.71
	52.0	4.54	0.89	4.87	0.82	5.52	0.79	5.85	0.77	6.03	0.69	6.38	0.70	6.73	0.71

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

PUMY-P-YKM3, PUMY-CP-YKM2

8. CAPACITY TABLES

S-Series

PUMY-P175YKM3-PA,DA(-BS)/PUMY-CP175YKM2-PA,DA(-BS)/PUMY-CP175YKM2-TH

TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor	Indoor air temp.													
	air temp.	22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70	-5.0	11.08	1.28	11.88	1.44	13.47	1.92	14.27	2.38	14.70	2.89	15.56	2.98	16.42	3.06
	0.0	11.08	1.28	11.88	1.45	13.47	1.93	14.27	2.38	14.70	2.89	15.56	2.98	16.42	3.06
	5.0	11.08	1.29	11.88	1.45	13.47	1.94	14.27	2.37	14.70	2.89	15.56	2.97	16.42	3.05
	10.0	11.08	1.29	11.88	1.46	13.47	1.94	14.27	2.37	14.70	2.89	15.56	2.97	16.42	3.05
	12.0	11.08	1.29	11.88	1.46	13.47	1.95	14.27	2.37	14.70	2.89	15.56	2.97	16.42	3.05
	14.0	11.08	1.29	11.88	1.46	13.47	1.95	14.27	2.37	14.70	2.89	15.56	2.97	16.42	3.04
	16.0	11.08	1.30	11.88	1.46	13.47	1.95	14.27	2.36	14.70	2.89	15.56	2.96	16.42	3.04
	18.0	11.08	1.30	11.88	1.46	13.47	1.96	14.27	2.36	14.70	2.88	15.56	2.96	16.42	3.04
	20.0	11.08	1.30	11.88	1.46	13.47	1.96	14.27	2.36	14.70	2.88	15.56	2.96	16.42	3.04
	21.0	11.07	1.35	11.86	1.52	13.45	2.03	14.25	2.43	14.68	2.92	15.54	3.00	16.40	3.08
	23.0	11.04	1.44	11.83	1.64	13.42	2.18	14.21	2.57	14.64	3.00	15.50	3.07	16.36	3.15
	25.0	11.01	1.53	11.80	1.76	13.38	2.32	14.17	2.71	14.60	3.07	15.46	3.15	16.31	3.23
	27.0	10.98	1.63	11.77	1.88	13.35	2.46	14.14	2.85	14.56	3.14	15.42	3.22	16.27	3.30
	29.0	10.95	1.72	11.74	2.00	13.31	2.61	14.10	2.99	14.52	3.22	15.38	3.30	16.23	3.38
	31.0	10.92	1.82	11.71	2.12	13.28	2.75	14.06	3.13	14.49	3.29	15.34	3.37	16.18	3.45
	32.0	10.91	1.86	11.69	2.18	13.26	2.82	14.04	3.20	14.47	3.33	15.31	3.41	16.16	3.49
	33.0	10.89	1.91	11.67	2.24	13.24	2.89	14.02	3.27	14.45	3.37	15.29	3.45	16.14	3.53
	35.0	10.86	2.01	11.64	2.36	13.21	3.04	13.99	3.41	14.41	3.44	15.25	3.52	16.10	3.61
	37.0	10.70	2.10	11.47	2.49	13.01	3.17	13.78	3.51	14.19	3.55	15.02	3.37	15.86	3.19
	39.0	10.07	2.19	10.79	2.60	12.24	3.31	12.97	3.15	13.36	3.12	14.14	2.94	14.92	2.76
	40.0	9.75	2.24	10.46	2.66	11.86	3.08	12.56	2.97	12.94	2.90	13.70	2.72	14.46	2.54
	42.0	8.79	2.31	9.42	2.78	10.69	2.62	11.32	2.54	11.66	2.47	12.35	2.33	13.03	2.19
	43.0	8.31	2.35	8.91	2.52	10.10	2.40	10.70	2.33	11.02	2.26	11.67	2.14	12.32	2.01
	46.0	6.87	1.90	7.36	1.76	8.35	1.72	8.84	1.69	9.11	1.61	9.64	1.55	10.17	1.49
	52.0	3.98	0.78	4.26	0.71	4.83	0.69	5.12	0.67	5.27	0.60	5.58	0.61	5.89	0.62
60	-5.0	9.50	1.10	10.18	1.24	11.55	1.65	12.23	2.05	12.60	2.49	13.34	2.56	14.07	2.64
	0.0	9.50	1.10	10.18	1.24	11.55	1.66	12.23	2.05	12.60	2.49	13.34	2.56	14.07	2.63
	5.0	9.50	1.11	10.18	1.25	11.55	1.67	12.23	2.04	12.60	2.49	13.34	2.56	14.07	2.63
	10.0	9.50	1.11	10.18	1.25	11.55	1.67	12.23	2.04	12.60	2.49	13.34	2.55	14.07	2.62
	12.0	9.50	1.11	10.18	1.25	11.55	1.68	12.23	2.04	12.60	2.48	13.34	2.55	14.07	2.62
	14.0	9.50	1.11	10.18	1.26	11.55	1.68	12.23	2.04	12.60	2.48	13.34	2.55	14.07	2.62
	16.0	9.50	1.12	10.18	1.26	11.55	1.68	12.23	2.03	12.60	2.48	13.34	2.55	14.07	2.62
	18.0	9.50	1.12	10.18	1.26	11.55	1.68	12.23	2.03	12.60	2.48	13.34	2.55	14.07	2.62
	20.0	9.50	1.12	10.18	1.26	11.55	1.69	12.23	2.03	12.60	2.48	13.34	2.55	14.07	2.61
	21.0	9.48	1.16	10.17	1.31	11.53	1.75	12.21	2.09	12.58	2.51	13.32	2.58	14.06	2.65
	23.0	9.46	1.24	10.14	1.41	11.50	1.87	12.18	2.21	12.55	2.58	13.28	2.64	14.02	2.71
	25.0	9.43	1.32	10.11	1.52	11.47	2.00	12.15	2.33	12.52	2.64	13.25	2.71	13.98	2.78
	27.0	9.41	1.40	10.09	1.62	11.44	2.12	12.12	2.45	12.48	2.71	13.21	2.77	13.95	2.84
	29.0	9.39	1.48	10.06	1.72	11.41	2.24	12.08	2.57	12.45	2.77	13.18	2.84	13.91	2.91
	31.0	9.36	1.56	10.03	1.83	11.38	2.37	12.05	2.69	12.42	2.83	13.14	2.90	13.87	2.97
	32.0	9.35	1.60	10.02	1.88	11.36	2.43	12.04	2.75	12.40	2.87	13.13	2.94	13.85	3.01
	33.0	9.34	1.65	10.01	1.93	11.35	2.49	12.02	2.81	12.38	2.90	13.11	2.97	13.84	3.04
	35.0	9.31	1.73	9.98	2.03	11.32	2.61	11.99	2.93	12.35	2.96	13.07	3.03	13.80	3.10
	37.0	9.17	1.81	9.83	2.14	11.15	2.73	11.81	3.02	12.17	3.05	12.88	2.90	13.59	2.75
	39.0	8.63	1.89	9.25	2.24	10.49	2.85	11.11	2.71	11.45	2.68	12.12	2.53	12.79	2.37
	40.0	8.36	1.93	8.96	2.29	10.16	2.65	10.77	2.55	11.09	2.50	11.74	2.34	12.39	2.18
	42.0	7.54	1.99	8.08	2.39	9.16	2.26	9.70	2.19	10.00	2.13	10.58	2.01	11.17	1.88
	43.0	7.12	2.02	7.63	2.17	8.66	2.06	9.17	2.00	9.45	1.94	10.00	1.84	10.56	1.73
	46.0	5.88	1.63	6.31	1.51	7.15	1.48	7.58	1.45	7.81	1.39	8.26	1.34	8.72	1.28
	52.0	3.41	0.67	3.65	0.61	4.14	0.59	4.39	0.58	4.52	0.52	4.79	0.52	5.05	0.53

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

8. CAPACITY TABLES

S-Series

PUMY-P175YKM3-PA,DA(-BS)/PUMY-CP175YKM2-PA,DA(-BS)/PUMY-CP175YKM2-TH

TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor air temp.	Indoor air temp.													
		22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC
50	-5.0	7.91	0.93	8.48	1.04	9.62	1.39	10.19	1.73	10.50	2.10	11.11	2.16	11.73	2.22
	0.0	7.91	0.93	8.48	1.05	9.62	1.40	10.19	1.72	10.50	2.10	11.11	2.16	11.73	2.22
	5.0	7.91	0.93	8.48	1.05	9.62	1.40	10.19	1.72	10.50	2.09	11.11	2.15	11.73	2.21
	10.0	7.91	0.94	8.48	1.05	9.62	1.41	10.19	1.72	10.50	2.09	11.11	2.15	11.73	2.21
	12.0	7.91	0.94	8.48	1.06	9.62	1.41	10.19	1.71	10.50	2.09	11.11	2.15	11.73	2.21
	14.0	7.91	0.94	8.48	1.06	9.62	1.41	10.19	1.71	10.50	2.09	11.11	2.15	11.73	2.21
	16.0	7.91	0.94	8.48	1.06	9.62	1.42	10.19	1.71	10.50	2.09	11.11	2.15	11.73	2.20
	18.0	7.91	0.94	8.48	1.06	9.62	1.42	10.19	1.71	10.50	2.09	11.11	2.15	11.73	2.20
	20.0	7.91	0.94	8.48	1.06	9.62	1.42	10.19	1.71	10.50	2.09	11.11	2.14	11.73	2.20
	21.0	7.90	0.98	8.47	1.10	9.61	1.47	10.18	1.76	10.48	2.12	11.10	2.17	11.71	2.23
	23.0	7.88	1.04	8.45	1.19	9.58	1.58	10.15	1.86	10.46	2.17	11.07	2.23	11.68	2.28
	25.0	7.86	1.11	8.43	1.28	9.56	1.68	10.12	1.96	10.43	2.22	11.04	2.28	11.65	2.34
	27.0	7.84	1.18	8.41	1.36	9.53	1.78	10.10	2.06	10.40	2.28	11.01	2.34	11.62	2.39
	29.0	7.82	1.25	8.38	1.45	9.51	1.89	10.07	2.16	10.37	2.33	10.98	2.39	11.59	2.45
	31.0	7.80	1.32	8.36	1.54	9.48	1.99	10.04	2.26	10.35	2.39	10.95	2.44	11.56	2.50
	32.0	7.79	1.35	8.35	1.58	9.47	2.04	10.03	2.32	10.33	2.41	10.94	2.47	11.54	2.53
	33.0	7.78	1.39	8.34	1.63	9.46	2.10	10.02	2.37	10.32	2.44	10.92	2.50	11.53	2.56
	35.0	7.76	1.45	8.32	1.71	9.43	2.20	9.99	2.47	10.29	2.49	10.90	2.55	11.50	2.61
	37.0	7.64	1.52	8.19	1.80	9.29	2.30	9.84	2.54	10.14	2.57	10.73	2.44	11.33	2.31
	39.0	7.19	1.59	7.71	1.89	8.74	2.40	9.26	2.28	9.54	2.26	10.10	2.13	10.66	2.00
	40.0	6.97	1.62	7.47	1.93	8.47	2.23	8.97	2.15	9.24	2.10	9.78	1.97	10.33	1.84
	42.0	6.28	1.67	6.73	2.01	7.63	1.90	8.09	1.84	8.33	1.79	8.82	1.69	9.31	1.59
	43.0	5.94	1.70	6.36	1.83	7.22	1.74	7.64	1.69	7.87	1.64	8.34	1.55	8.80	1.46
	46.0	4.90	1.38	5.26	1.27	5.96	1.24	6.31	1.22	6.50	1.17	6.89	1.12	7.27	1.08
	52.0	2.84	0.56	3.04	0.52	3.45	0.50	3.66	0.49	3.77	0.44	3.99	0.44	4.21	0.45

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

PUMY-P-YKM3, PUMY-CP-YKM2

8. CAPACITY TABLES

S-Series

PUMY-P200YKM3-PA,DA(-BS)/PUMY-CP200YKM2-PA,DA(-BS)/PUMY-CP200YKM2-TH

TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor air temp.	Indoor air temp.													
		22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC
130	-5.0	18.79	2.31	20.15	2.60	22.85	3.46	24.20	4.30	24.93	5.22	26.39	5.37	27.85	5.53
	0.0	18.79	2.32	20.15	2.61	22.85	3.48	24.20	4.29	24.93	5.22	26.39	5.37	27.85	5.52
	5.0	18.79	2.32	20.15	2.62	22.85	3.49	24.20	4.28	24.93	5.21	26.39	5.36	27.85	5.51
	10.0	18.79	2.33	20.15	2.63	22.85	3.51	24.20	4.27	24.93	5.21	26.39	5.35	27.85	5.50
	12.0	18.79	2.33	20.15	2.63	22.85	3.51	24.20	4.27	24.93	5.21	26.39	5.35	27.85	5.49
	14.0	18.79	2.33	20.15	2.63	22.85	3.52	24.20	4.27	24.93	5.21	26.39	5.35	27.85	5.49
	16.0	18.79	2.34	20.15	2.63	22.85	3.53	24.20	4.26	24.93	5.21	26.39	5.35	27.85	5.49
	18.0	18.79	2.34	20.15	2.64	22.85	3.53	24.20	4.26	24.93	5.20	26.39	5.34	27.85	5.48
	20.0	18.79	2.34	20.15	2.64	22.85	3.54	24.20	4.26	24.93	5.20	26.39	5.34	27.85	5.48
	21.0	18.77	2.43	20.12	2.75	22.82	3.67	24.17	4.38	24.90	5.27	26.36	5.41	27.82	5.55
	23.0	18.72	2.60	20.07	2.97	22.76	3.93	24.10	4.63	24.83	5.40	26.29	5.54	27.74	5.68
	25.0	18.67	2.77	20.01	3.18	22.70	4.18	24.04	4.88	24.77	5.54	26.22	5.68	27.67	5.82
	27.0	18.62	2.94	19.96	3.40	22.64	4.44	23.98	5.14	24.70	5.67	26.15	5.81	27.60	5.96
	29.0	18.57	3.11	19.91	3.62	22.58	4.70	23.92	5.39	24.64	5.81	26.08	5.95	27.53	6.09
	31.0	18.52	3.28	19.86	3.83	22.52	4.96	23.85	5.64	24.57	5.94	26.01	6.09	27.45	6.23
	32.0	18.50	3.36	19.83	3.94	22.49	5.09	23.82	5.76	24.54	6.01	25.98	6.15	27.42	6.30
	33.0	18.48	3.45	19.80	4.05	22.46	5.22	23.79	5.89	24.51	6.08	25.94	6.22	27.38	6.37
	35.0	18.43	3.62	19.75	4.27	22.40	5.48	23.73	6.14	24.44	6.21	25.87	6.36	27.31	6.50
	37.0	18.15	3.79	19.45	4.49	22.06	5.73	23.37	6.33	24.08	6.40	25.49	6.08	26.90	5.76
	39.0	17.08	3.96	18.31	4.69	20.77	5.98	21.99	5.68	22.66	5.63	23.99	5.30	25.31	4.97
	40.0	16.55	4.04	17.74	4.80	20.12	5.55	21.31	5.36	21.95	5.24	23.24	4.91	24.52	4.58
	42.0	14.91	4.17	15.98	5.01	18.13	4.73	19.20	4.59	19.78	4.46	20.94	4.21	22.10	3.95
	43.0	14.10	4.23	15.11	4.55	17.14	4.32	18.15	4.20	18.70	4.08	19.79	3.85	20.89	3.63
	46.0	11.65	3.42	12.48	3.17	14.16	3.10	14.99	3.05	15.45	2.91	16.35	2.80	17.26	2.69
	52.0	6.74	1.40	7.23	1.28	8.20	1.24	8.68	1.22	8.95	1.09	9.47	1.10	9.99	1.12
120	-5.0	18.44	2.26	19.77	2.55	22.42	3.39	23.74	4.21	24.46	5.11	25.90	5.26	27.33	5.41
	0.0	18.44	2.27	19.77	2.55	22.42	3.40	23.74	4.20	24.46	5.10	25.90	5.25	27.33	5.40
	5.0	18.44	2.27	19.77	2.56	22.42	3.42	23.74	4.19	24.46	5.10	25.90	5.25	27.33	5.39
	10.0	18.44	2.28	19.77	2.57	22.42	3.43	23.74	4.18	24.46	5.10	25.90	5.24	27.33	5.38
	12.0	18.44	2.28	19.77	2.57	22.42	3.44	23.74	4.18	24.46	5.10	25.90	5.24	27.33	5.38
	14.0	18.44	2.28	19.77	2.57	22.42	3.44	23.74	4.17	24.46	5.09	25.90	5.23	27.33	5.37
	16.0	18.44	2.29	19.77	2.58	22.42	3.45	23.74	4.17	24.46	5.09	25.90	5.23	27.33	5.37
	18.0	18.44	2.29	19.77	2.58	22.42	3.46	23.74	4.17	24.46	5.09	25.90	5.23	27.33	5.36
	20.0	18.44	2.29	19.77	2.58	22.42	3.46	23.74	4.16	24.46	5.09	25.90	5.23	27.33	5.36
	21.0	18.42	2.38	19.74	2.69	22.39	3.59	23.71	4.29	24.43	5.16	25.86	5.29	27.29	5.43
	23.0	18.37	2.54	19.69	2.90	22.33	3.84	23.65	4.53	24.37	5.29	25.79	5.42	27.22	5.56
	25.0	18.32	2.71	19.64	3.11	22.27	4.09	23.59	4.78	24.30	5.42	25.73	5.56	27.15	5.70
	27.0	18.27	2.88	19.59	3.33	22.21	4.35	23.53	5.03	24.24	5.55	25.66	5.69	27.08	5.83
	29.0	18.22	3.04	19.53	3.54	22.15	4.60	23.47	5.27	24.17	5.68	25.59	5.82	27.01	5.96
	31.0	18.18	3.21	19.48	3.75	22.10	4.85	23.40	5.52	24.11	5.81	25.52	5.95	26.94	6.10
	32.0	18.15	3.29	19.46	3.86	22.07	4.98	23.37	5.64	24.08	5.88	25.49	6.02	26.90	6.16
	33.0	18.13	3.37	19.43	3.96	22.04	5.11	23.34	5.76	24.05	5.94	25.46	6.09	26.87	6.23
	35.0	18.08	3.54	19.38	4.17	21.98	5.36	23.28	6.01	23.98	6.08	25.39	6.22	26.79	6.36
	37.0	17.81	3.71	19.09	4.39	21.65	5.60	22.93	6.19	23.62	6.26	25.01	5.95	26.39	5.64
	39.0	16.76	3.87	17.96	4.59	20.37	5.85	21.58	5.56	22.23	5.50	23.53	5.18	24.84	4.86
	40.0	16.24	3.95	17.40	4.69	19.74	5.43	20.90	5.24	21.54	5.13	22.80	4.80	24.06	4.48
	42.0	14.63	4.08	15.68	4.90	17.79	4.63	18.84	4.49	19.41	4.37	20.55	4.11	21.69	3.86
	43.0	13.83	4.14	14.82	4.45	16.81	4.23	17.81	4.11	18.35	3.99	19.42	3.77	20.50	3.55
	46.0	11.43	3.35	12.25	3.10	13.89	3.03	14.71	2.98	15.16	2.85	16.05	2.74	16.93	2.63
	52.0	6.62	1.37	7.09	1.26	8.04	1.21	8.52	1.19	8.78	1.06	9.29	1.08	9.81	1.09

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

8. CAPACITY TABLES

S-Series

PUMY-P200YKM3-PA,DA(-BS)/PUMY-CP200YKM2-PA,DA(-BS)/PUMY-CP200YKM2-TH

TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor air temp.	Indoor air temp.													
		22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC
110	-5.0	18.09	2.21	19.39	2.49	21.99	3.31	23.29	4.11	23.99	5.00	25.40	5.14	26.81	5.29
	0.0	18.09	2.22	19.39	2.50	21.99	3.33	23.29	4.11	23.99	4.99	25.40	5.14	26.81	5.28
	5.0	18.09	2.22	19.39	2.50	21.99	3.34	23.29	4.10	23.99	4.99	25.40	5.13	26.81	5.27
	10.0	18.09	2.23	19.39	2.51	21.99	3.36	23.29	4.09	23.99	4.98	25.40	5.12	26.81	5.26
	12.0	18.09	2.23	19.39	2.51	21.99	3.36	23.29	4.09	23.99	4.98	25.40	5.12	26.81	5.26
	14.0	18.09	2.23	19.39	2.52	21.99	3.37	23.29	4.08	23.99	4.98	25.40	5.12	26.81	5.25
	16.0	18.09	2.24	19.39	2.52	21.99	3.37	23.29	4.08	23.99	4.98	25.40	5.12	26.81	5.25
	18.0	18.09	2.24	19.39	2.52	21.99	3.38	23.29	4.08	23.99	4.98	25.40	5.11	26.81	5.25
	20.0	18.09	2.24	19.39	2.53	21.99	3.38	23.29	4.07	23.99	4.98	25.40	5.11	26.81	5.24
	21.0	18.06	2.32	19.36	2.63	21.96	3.51	23.26	4.19	23.96	5.04	25.37	5.18	26.77	5.31
	23.0	18.02	2.49	19.31	2.84	21.90	3.76	23.20	4.43	23.90	5.17	25.30	5.30	26.70	5.44
	25.0	17.97	2.65	19.26	3.04	21.84	4.00	23.14	4.67	23.84	5.30	25.23	5.43	26.63	5.57
	27.0	17.92	2.81	19.21	3.25	21.79	4.25	23.08	4.91	23.77	5.43	25.17	5.56	26.56	5.70
	29.0	17.87	2.97	19.16	3.46	21.73	4.50	23.01	5.16	23.71	5.56	25.10	5.69	26.49	5.83
	31.0	17.83	3.14	19.11	3.67	21.67	4.75	22.95	5.40	23.65	5.68	25.03	5.82	26.42	5.96
	32.0	17.80	3.22	19.08	3.77	21.64	4.87	22.92	5.52	23.62	5.75	25.00	5.89	26.39	6.03
	33.0	17.78	3.30	19.06	3.87	21.61	4.99	22.89	5.64	23.58	5.81	24.97	5.95	26.35	6.09
	35.0	17.73	3.46	19.01	4.08	21.56	5.24	22.83	5.88	23.52	5.94	24.90	6.08	26.28	6.22
	37.0	17.47	3.63	18.72	4.29	21.23	5.48	22.49	6.05	23.17	6.12	24.53	5.82	25.89	5.51
	39.0	16.44	3.79	17.62	4.49	19.98	5.72	21.17	5.43	21.80	5.38	23.08	5.07	24.36	4.76
	40.0	15.92	3.86	17.07	4.59	19.36	5.31	20.50	5.12	21.12	5.01	22.36	4.70	23.60	4.38
	42.0	14.35	3.99	15.38	4.79	17.45	4.53	18.48	4.39	19.04	4.27	20.15	4.02	21.27	3.78
	43.0	13.57	4.05	14.54	4.35	16.49	4.14	17.47	4.02	17.99	3.90	19.05	3.69	20.10	3.48
	46.0	11.21	3.28	12.01	3.04	13.62	2.96	14.43	2.92	14.87	2.79	15.74	2.68	16.61	2.57
	52.0	6.49	1.34	6.96	1.23	7.89	1.19	8.36	1.16	8.61	1.04	9.11	1.05	9.62	1.07
100	-5.0	17.74	2.16	19.02	2.43	21.57	3.23	22.85	4.02	23.54	4.88	24.92	5.02	26.30	5.17
	0.0	17.74	2.16	19.02	2.44	21.57	3.25	22.85	4.01	23.54	4.88	24.92	5.02	26.30	5.16
	5.0	17.74	2.17	19.02	2.45	21.57	3.26	22.85	4.00	23.54	4.87	24.92	5.01	26.30	5.15
	10.0	17.74	2.18	19.02	2.45	21.57	3.28	22.85	3.99	23.54	4.87	24.92	5.00	26.30	5.14
	12.0	17.74	2.18	19.02	2.46	21.57	3.28	22.85	3.99	23.54	4.87	24.92	5.00	26.30	5.13
	14.0	17.74	2.18	19.02	2.46	21.57	3.29	22.85	3.99	23.54	4.87	24.92	5.00	26.30	5.13
	16.0	17.74	2.18	19.02	2.46	21.57	3.29	22.85	3.98	23.54	4.86	24.92	5.00	26.30	5.13
	18.0	17.74	2.19	19.02	2.46	21.57	3.30	22.85	3.98	23.54	4.86	24.92	4.99	26.30	5.12
	20.0	17.74	2.19	19.02	2.47	21.57	3.31	22.85	3.98	23.54	4.86	24.92	4.99	26.30	5.12
	21.0	17.72	2.27	19.00	2.57	21.54	3.43	22.82	4.10	23.51	4.92	24.89	5.05	26.26	5.18
	23.0	17.67	2.43	18.95	2.77	21.49	3.67	22.76	4.33	23.45	5.05	24.82	5.18	26.19	5.31
	25.0	17.63	2.59	18.90	2.97	21.43	3.91	22.70	4.57	23.38	5.18	24.76	5.31	26.13	5.44
	27.0	17.58	2.75	18.85	3.18	21.37	4.15	22.64	4.80	23.32	5.30	24.69	5.43	26.06	5.57
	29.0	17.54	2.91	18.80	3.38	21.32	4.39	22.58	5.04	23.26	5.43	24.62	5.56	25.99	5.70
	31.0	17.49	3.06	18.75	3.58	21.26	4.63	22.52	5.27	23.20	5.55	24.56	5.69	25.92	5.82
	32.0	17.47	3.14	18.72	3.68	21.23	4.76	22.49	5.39	23.17	5.61	24.53	5.75	25.89	5.89
	33.0	17.44	3.22	18.70	3.78	21.21	4.88	22.46	5.51	23.14	5.68	24.49	5.81	25.85	5.95
	35.0	17.40	3.38	18.65	3.99	21.15	5.12	22.40	5.74	23.08	5.80	24.43	5.94	25.78	6.08
	37.0	17.14	3.55	18.37	4.19	20.83	5.35	22.06	5.91	22.73	5.98	24.06	5.68	25.40	5.38
	39.0	16.13	3.70	17.29	4.39	19.61	5.58	20.76	5.31	21.39	5.26	22.65	4.95	23.90	4.65
	40.0	15.62	3.77	16.75	4.48	18.99	5.19	20.12	5.01	20.72	4.90	21.94	4.59	23.15	4.28
	42.0	14.08	3.90	15.09	4.68	17.12	4.42	18.13	4.29	18.68	4.17	19.77	3.93	20.87	3.69
	43.0	13.31	3.96	14.27	4.25	16.18	4.04	17.14	3.93	17.65	3.81	18.69	3.60	19.72	3.40
	46.0	10.99	3.20	11.79	2.96	13.37	2.89	14.16	2.85	14.58	2.72	15.44	2.62	16.29	2.51
	52.0	6.37	1.31	6.82	1.20	7.74	1.16	8.20	1.14	8.45	1.02	8.94	1.03	9.44	1.04

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

PUMY-P-YKM3, PUMY-CP-YKM2

8. CAPACITY TABLES

S-Series

PUMY-P200YKM3-PA,DA(-BS)/PUMY-CP200YKM2-PA,DA(-BS)/PUMY-CP200YKM2-TH

TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor air temp.	Indoor air temp.													
		22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
90	-5.0	15.95	1.91	17.10	2.15	19.40	2.87	20.54	3.56	21.16	4.32	22.40	4.45	23.65	4.58
	0.0	15.95	1.92	17.10	2.16	19.40	2.88	20.54	3.55	21.16	4.32	22.40	4.44	23.65	4.57
	5.0	15.95	1.92	17.10	2.17	19.40	2.89	20.54	3.55	21.16	4.32	22.40	4.44	23.65	4.56
	10.0	15.95	1.93	17.10	2.17	19.40	2.90	20.54	3.54	21.16	4.31	22.40	4.43	23.65	4.55
	12.0	15.95	1.93	17.10	2.18	19.40	2.91	20.54	3.54	21.16	4.31	22.40	4.43	23.65	4.55
	14.0	15.95	1.93	17.10	2.18	19.40	2.91	20.54	3.53	21.16	4.31	22.40	4.43	23.65	4.55
	16.0	15.95	1.94	17.10	2.18	19.40	2.92	20.54	3.53	21.16	4.31	22.40	4.43	23.65	4.54
	18.0	15.95	1.94	17.10	2.18	19.40	2.92	20.54	3.53	21.16	4.31	22.40	4.42	23.65	4.54
	20.0	15.95	1.94	17.10	2.19	19.40	2.93	20.54	3.52	21.16	4.31	22.40	4.42	23.65	4.54
	21.0	15.93	2.01	17.08	2.28	19.37	3.04	20.52	3.63	21.14	4.36	22.38	4.48	23.61	4.59
	23.0	15.89	2.15	17.03	2.46	19.32	3.25	20.46	3.84	21.08	4.47	22.32	4.59	23.55	4.71
	25.0	15.85	2.29	16.99	2.63	19.27	3.46	20.41	4.04	21.03	4.59	22.26	4.70	23.49	4.82
	27.0	15.81	2.43	16.95	2.81	19.22	3.68	20.36	4.25	20.97	4.70	22.20	4.81	23.43	4.93
	29.0	15.77	2.57	16.90	2.99	19.17	3.89	20.30	4.46	20.91	4.81	22.14	4.93	23.37	5.05
	31.0	15.73	2.71	16.86	3.17	19.12	4.11	20.25	4.67	20.86	4.92	22.08	5.04	23.31	5.16
	32.0	15.70	2.79	16.83	3.26	19.09	4.21	20.22	4.77	20.83	4.97	22.05	5.10	23.27	5.22
	33.0	15.68	2.86	16.81	3.35	19.07	4.32	20.19	4.88	20.80	5.03	22.02	5.15	23.24	5.27
	35.0	15.64	3.00	16.77	3.53	19.02	4.53	20.14	5.09	20.75	5.14	21.97	5.26	23.18	5.39
	37.0	15.41	3.14	16.52	3.72	18.73	4.74	19.84	5.24	20.44	5.30	21.64	5.03	22.83	4.77
	39.0	14.50	3.28	15.54	3.89	17.63	4.95	18.67	4.70	19.23	4.66	20.36	4.39	21.49	4.12
	40.0	14.05	3.34	15.06	3.97	17.08	4.60	18.09	4.43	18.63	4.34	19.72	4.06	20.82	3.79
	42.0	12.66	3.45	13.57	4.15	15.39	3.92	16.30	3.80	16.79	3.70	17.78	3.48	18.76	3.27
	43.0	11.97	3.51	12.83	3.77	14.55	3.58	15.41	3.48	15.87	3.37	16.80	3.19	17.73	3.01
	46.0	9.89	2.84	10.60	2.63	12.02	2.56	12.73	2.52	13.11	2.41	13.88	2.32	14.65	2.23
	52.0	5.72	1.16	6.14	1.06	6.96	1.03	7.37	1.01	7.59	0.90	8.04	0.91	8.48	0.93
80	-5.0	14.18	1.68	15.20	1.90	17.24	2.52	18.26	3.14	18.81	3.81	19.92	3.92	21.02	4.03
	0.0	14.18	1.69	15.20	1.90	17.24	2.54	18.26	3.13	18.81	3.80	19.92	3.91	21.02	4.02
	5.0	14.18	1.69	15.20	1.91	17.24	2.55	18.26	3.12	18.81	3.80	19.92	3.91	21.02	4.02
	10.0	14.18	1.70	15.20	1.91	17.24	2.56	18.26	3.12	18.81	3.80	19.92	3.90	21.02	4.01
	12.0	14.18	1.70	15.20	1.92	17.24	2.56	18.26	3.11	18.81	3.80	19.92	3.90	21.02	4.01
	14.0	14.18	1.70	15.20	1.92	17.24	2.57	18.26	3.11	18.81	3.80	19.92	3.90	21.02	4.00
	16.0	14.18	1.70	15.20	1.92	17.24	2.57	18.26	3.11	18.81	3.80	19.92	3.90	21.02	4.00
	18.0	14.18	1.71	15.20	1.92	17.24	2.58	18.26	3.11	18.81	3.79	19.92	3.90	21.02	4.00
	20.0	14.18	1.71	15.20	1.93	17.24	2.58	18.26	3.10	18.81	3.79	19.92	3.89	21.02	4.00
	21.0	14.16	1.77	15.18	2.00	17.22	2.67	18.24	3.20	18.79	3.84	19.89	3.94	20.99	4.05
	23.0	14.13	1.89	15.14	2.16	17.17	2.86	18.19	3.38	18.74	3.94	19.84	4.04	20.94	4.15
	25.0	14.09	2.02	15.10	2.32	17.13	3.05	18.14	3.56	18.69	4.04	19.79	4.14	20.88	4.24
	27.0	14.05	2.14	15.06	2.48	17.08	3.24	18.09	3.75	18.64	4.14	19.73	4.24	20.83	4.34
	29.0	14.02	2.27	15.02	2.64	17.04	3.43	18.05	3.93	18.59	4.23	19.68	4.34	20.77	4.44
	31.0	13.98	2.39	14.98	2.79	16.99	3.62	18.00	4.11	18.54	4.33	19.63	4.44	20.72	4.54
	32.0	13.96	2.45	14.96	2.87	16.97	3.71	17.97	4.20	18.52	4.38	19.60	4.49	20.69	4.59
	33.0	13.94	2.52	14.94	2.95	16.95	3.81	17.95	4.30	18.49	4.43	19.58	4.54	20.66	4.64
	35.0	13.90	2.64	14.90	3.11	16.90	3.99	17.90	4.48	18.44	4.53	19.52	4.64	20.61	4.74
	37.0	13.70	2.77	14.68	3.27	16.65	4.18	17.63	4.61	18.17	4.67	19.23	4.43	20.30	4.20
	39.0	12.89	2.89	13.82	3.42	15.67	4.36	16.60	4.14	17.10	4.10	18.10	3.86	19.10	3.63
	40.0	12.49	2.94	13.38	3.50	15.18	4.05	16.08	3.91	16.56	3.82	17.53	3.58	18.50	3.34
	42.0	11.25	3.04	12.06	3.65	13.68	3.45	14.49	3.34	14.93	3.25	15.80	3.07	16.68	2.88
	43.0	10.64	3.09	11.40	3.32	12.93	3.15	13.70	3.06	14.11	2.97	14.94	2.81	15.76	2.65
	46.0	8.79	2.50	9.42	2.31	10.68	2.26	11.31	2.22	11.66	2.12	12.34	2.04	13.02	1.96
	52.0	5.09	1.02	5.45	0.94	6.19	0.90	6.55	0.89	6.75	0.79	7.15	0.80	7.54	0.82

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

8. CAPACITY TABLES

S-Series

PUMY-P200YKM3-PA,DA(-BS)/PUMY-CP200YKM2-PA,DA(-BS)/PUMY-CP200YKM2-TH

TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor air temp.	Indoor air temp.													
		22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC
70	-5.0	12.41	1.47	13.30	1.66	15.09	2.20	15.98	2.74	16.46	3.32	17.43	3.42	18.39	3.52
	0.0	12.41	1.47	13.30	1.66	15.09	2.21	15.98	2.73	16.46	3.32	17.43	3.42	18.39	3.51
	5.0	12.41	1.48	13.30	1.67	15.09	2.22	15.98	2.73	16.46	3.32	17.43	3.41	18.39	3.51
	10.0	12.41	1.48	13.30	1.67	15.09	2.23	15.98	2.72	16.46	3.32	17.43	3.41	18.39	3.50
	12.0	12.41	1.48	13.30	1.67	15.09	2.24	15.98	2.72	16.46	3.31	17.43	3.41	18.39	3.50
	14.0	12.41	1.49	13.30	1.67	15.09	2.24	15.98	2.72	16.46	3.31	17.43	3.40	18.39	3.49
	16.0	12.41	1.49	13.30	1.68	15.09	2.24	15.98	2.71	16.46	3.31	17.43	3.40	18.39	3.49
	18.0	12.41	1.49	13.30	1.68	15.09	2.25	15.98	2.71	16.46	3.31	17.43	3.40	18.39	3.49
	20.0	12.41	1.49	13.30	1.68	15.09	2.25	15.98	2.71	16.46	3.31	17.43	3.40	18.39	3.49
	21.0	12.39	1.55	13.28	1.75	15.07	2.33	15.96	2.79	16.44	3.35	17.40	3.44	18.37	3.53
	23.0	12.36	1.65	13.25	1.89	15.03	2.50	15.92	2.95	16.40	3.44	17.36	3.53	18.32	3.62
	25.0	12.33	1.76	13.21	2.03	14.99	2.66	15.87	3.11	16.35	3.52	17.31	3.61	18.27	3.70
	27.0	12.30	1.87	13.18	2.16	14.95	2.83	15.83	3.27	16.31	3.61	17.27	3.70	18.22	3.79
	29.0	12.26	1.98	13.15	2.30	14.91	2.99	15.79	3.43	16.27	3.70	17.22	3.79	18.17	3.88
	31.0	12.23	2.09	13.11	2.44	14.87	3.16	15.75	3.59	16.22	3.78	17.18	3.87	18.13	3.97
	32.0	12.21	2.14	13.09	2.51	14.85	3.24	15.73	3.67	16.20	3.82	17.15	3.92	18.10	4.01
	33.0	12.20	2.19	13.08	2.58	14.83	3.32	15.71	3.75	16.18	3.87	17.13	3.96	18.08	4.05
	35.0	12.17	2.30	13.04	2.71	14.79	3.49	15.66	3.91	16.14	3.95	17.08	4.05	18.03	4.14
	37.0	11.98	2.41	12.85	2.86	14.57	3.64	15.43	4.03	15.90	4.07	16.83	3.87	17.76	3.67
	39.0	11.28	2.52	12.09	2.99	13.71	3.80	14.52	3.61	14.96	3.58	15.84	3.37	16.71	3.16
	40.0	10.92	2.57	11.71	3.05	13.28	3.53	14.07	3.41	14.49	3.33	15.34	3.12	16.19	2.91
	42.0	9.85	2.65	10.55	3.19	11.97	3.01	12.68	2.92	13.06	2.84	13.83	2.68	14.59	2.51
	43.0	9.31	2.69	9.98	2.90	11.31	2.75	11.98	2.67	12.35	2.59	13.07	2.45	13.79	2.31
	46.0	7.69	2.18	8.24	2.02	9.35	1.97	9.90	1.94	10.20	1.85	10.80	1.78	11.40	1.71
	52.0	4.45	0.89	4.77	0.82	5.41	0.79	5.73	0.77	5.91	0.69	6.25	0.70	6.60	0.71
60	-5.0	10.64	1.26	11.40	1.42	12.93	1.90	13.70	2.35	14.11	2.86	14.94	2.94	15.76	3.03
	0.0	10.64	1.27	11.40	1.43	12.93	1.90	13.70	2.35	14.11	2.86	14.94	2.94	15.76	3.02
	5.0	10.64	1.27	11.40	1.43	12.93	1.91	13.70	2.35	14.11	2.86	14.94	2.94	15.76	3.02
	10.0	10.64	1.28	11.40	1.44	12.93	1.92	13.70	2.34	14.11	2.85	14.94	2.93	15.76	3.01
	12.0	10.64	1.28	11.40	1.44	12.93	1.92	13.70	2.34	14.11	2.85	14.94	2.93	15.76	3.01
	14.0	10.64	1.28	11.40	1.44	12.93	1.93	13.70	2.34	14.11	2.85	14.94	2.93	15.76	3.01
	16.0	10.64	1.28	11.40	1.44	12.93	1.93	13.70	2.33	14.11	2.85	14.94	2.93	15.76	3.00
	18.0	10.64	1.28	11.40	1.44	12.93	1.93	13.70	2.33	14.11	2.85	14.94	2.93	15.76	3.00
	20.0	10.64	1.28	11.40	1.45	12.93	1.94	13.70	2.33	14.11	2.85	14.94	2.92	15.76	3.00
	21.0	10.62	1.33	11.39	1.51	12.91	2.01	13.68	2.40	14.09	2.89	14.92	2.96	15.74	3.04
	23.0	10.59	1.42	11.36	1.62	12.88	2.15	13.64	2.54	14.05	2.96	14.88	3.04	15.70	3.11
	25.0	10.57	1.52	11.33	1.74	12.85	2.29	13.61	2.68	14.02	3.03	14.84	3.11	15.66	3.19
	27.0	10.54	1.61	11.30	1.86	12.81	2.43	13.57	2.81	13.98	3.11	14.80	3.18	15.62	3.26
	29.0	10.51	1.70	11.27	1.98	12.78	2.57	13.53	2.95	13.94	3.18	14.76	3.26	15.58	3.34
	31.0	10.48	1.80	11.24	2.10	12.74	2.72	13.50	3.09	13.91	3.25	14.72	3.33	15.54	3.41
	32.0	10.47	1.84	11.22	2.16	12.73	2.79	13.48	3.16	13.89	3.29	14.70	3.37	15.52	3.45
	33.0	10.46	1.89	11.21	2.22	12.71	2.86	13.46	3.23	13.87	3.33	14.68	3.41	15.50	3.49
	35.0	10.43	1.98	11.18	2.34	12.68	3.00	13.43	3.36	13.83	3.40	14.64	3.48	15.45	3.56
	37.0	10.27	2.08	11.01	2.46	12.49	3.14	13.23	3.46	13.63	3.50	14.42	3.33	15.22	3.16
	39.0	9.67	2.17	10.36	2.57	11.75	3.27	12.45	3.11	12.82	3.08	13.57	2.90	14.33	2.72
	40.0	9.36	2.21	10.04	2.63	11.38	3.04	12.06	2.93	12.42	2.87	13.15	2.69	13.88	2.51
	42.0	8.44	2.28	9.05	2.74	10.26	2.59	10.87	2.51	11.20	2.44	11.85	2.30	12.51	2.16
	43.0	7.98	2.32	8.55	2.49	9.70	2.37	10.27	2.30	10.58	2.23	11.20	2.11	11.82	1.99
	46.0	6.59	1.88	7.06	1.74	8.01	1.70	8.49	1.67	8.74	1.59	9.25	1.53	9.77	1.47
	52.0	3.82	0.77	4.09	0.70	4.64	0.68	4.91	0.67	5.06	0.60	5.36	0.60	5.66	0.61

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

PUMY-P-YKM3, PUMY-CP-YKM2

8. CAPACITY TABLES

S-Series

PUMY-P-YKM3, PUMY-CP-YKM2

PUMY-P200YKM3-PA,DA(-BS)/PUMY-CP200YKM2-PA,DA(-BS)/PUMY-CP200YKM2-TH															TC: Total Capacity (kW), PI: Power Input (kW)	
Combination (%)	Outdoor air temp.	Indoor air temp.														
		22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.		
	°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	
50	-5.0	8.86	1.06	9.50	1.20	10.78	1.60	11.41	1.98	11.76	2.41	12.45	2.48	13.14	2.55	
	0.0	8.86	1.07	9.50	1.20	10.78	1.60	11.41	1.98	11.76	2.41	12.45	2.47	13.14	2.54	
	5.0	8.86	1.07	9.50	1.21	10.78	1.61	11.41	1.97	11.76	2.40	12.45	2.47	13.14	2.54	
	10.0	8.86	1.07	9.50	1.21	10.78	1.62	11.41	1.97	11.76	2.40	12.45	2.47	13.14	2.54	
	12.0	8.86	1.08	9.50	1.21	10.78	1.62	11.41	1.97	11.76	2.40	12.45	2.47	13.14	2.53	
	14.0	8.86	1.08	9.50	1.21	10.78	1.62	11.41	1.97	11.76	2.40	12.45	2.47	13.14	2.53	
	16.0	8.86	1.08	9.50	1.21	10.78	1.63	11.41	1.97	11.76	2.40	12.45	2.46	13.14	2.53	
	18.0	8.86	1.08	9.50	1.22	10.78	1.63	11.41	1.96	11.76	2.40	12.45	2.46	13.14	2.53	
	20.0	8.86	1.08	9.50	1.22	10.78	1.63	11.41	1.96	11.76	2.40	12.45	2.46	13.14	2.53	
	21.0	8.85	1.12	9.49	1.27	10.76	1.69	11.40	2.02	11.74	2.43	12.43	2.49	13.12	2.56	
	23.0	8.83	1.20	9.46	1.37	10.73	1.81	11.37	2.14	11.71	2.49	12.40	2.56	13.08	2.62	
	25.0	8.81	1.28	9.44	1.47	10.71	1.93	11.34	2.25	11.68	2.55	12.37	2.62	13.05	2.68	
	27.0	8.78	1.35	9.41	1.57	10.68	2.05	11.31	2.37	11.65	2.62	12.33	2.68	13.02	2.75	
	29.0	8.76	1.43	9.39	1.67	10.65	2.17	11.28	2.48	11.62	2.68	12.30	2.74	12.98	2.81	
	31.0	8.74	1.51	9.36	1.77	10.62	2.29	11.25	2.60	11.59	2.74	12.27	2.81	12.95	2.87	
	32.0	8.72	1.55	9.35	1.82	10.61	2.35	11.23	2.66	11.57	2.77	12.25	2.84	12.93	2.90	
	33.0	8.71	1.59	9.34	1.87	10.59	2.41	11.22	2.72	11.56	2.80	12.24	2.87	12.91	2.94	
	35.0	8.69	1.67	9.31	1.97	10.56	2.52	11.19	2.83	11.53	2.86	12.20	2.93	12.88	3.00	
	37.0	8.56	1.75	9.18	2.07	10.41	2.64	11.02	2.92	11.35	2.95	12.02	2.80	12.69	2.66	
	39.0	8.06	1.82	8.63	2.16	9.79	2.75	10.37	2.62	10.69	2.59	11.31	2.44	11.94	2.29	
	40.0	7.80	1.86	8.36	2.21	9.49	2.56	10.05	2.47	10.35	2.42	10.96	2.26	11.57	2.11	
	42.0	7.03	1.92	7.54	2.31	8.55	2.18	9.06	2.11	9.33	2.06	9.88	1.94	10.42	1.82	
	43.0	6.65	1.95	7.13	2.10	8.08	1.99	8.56	1.94	8.82	1.88	9.34	1.78	9.85	1.68	
	46.0	5.49	1.58	5.89	1.46	6.68	1.43	7.07	1.40	7.29	1.34	7.71	1.29	8.14	1.24	
	52.0	3.18	0.65	3.41	0.59	3.87	0.57	4.10	0.56	4.22	0.50	4.47	0.51	4.71	0.52	

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

8. CAPACITY TABLES

S-Series

PUMY-P225YKM3-PA,DA(-BS)/PUMY-CP225YKM2-PA,DA(-BS)/PUMY-CP225YKM2-TH

TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor air temp.	Indoor air temp.													
		22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130	-5.0	20.98	2.63	22.48	2.96	25.50	3.94	27.01	4.90	27.82	5.95	29.46	6.12	31.09	6.30
	0.0	20.98	2.64	22.48	2.97	25.50	3.96	27.01	4.89	27.82	5.94	29.46	6.12	31.09	6.29
	5.0	20.98	2.65	22.48	2.98	25.50	3.98	27.01	4.88	27.82	5.94	29.46	6.11	31.09	6.28
	10.0	20.98	2.65	22.48	2.99	25.50	4.00	27.01	4.87	27.82	5.94	29.46	6.10	31.09	6.26
	12.0	20.98	2.66	22.48	2.99	25.50	4.00	27.01	4.87	27.82	5.93	29.46	6.10	31.09	6.26
	14.0	20.98	2.66	22.48	3.00	25.50	4.01	27.01	4.86	27.82	5.93	29.46	6.09	31.09	6.26
	16.0	20.98	2.66	22.48	3.00	25.50	4.02	27.01	4.86	27.82	5.93	29.46	6.09	31.09	6.25
	18.0	20.98	2.67	22.48	3.01	25.50	4.02	27.01	4.85	27.82	5.93	29.46	6.09	31.09	6.25
	20.0	20.98	2.67	22.48	3.01	25.50	4.03	27.01	4.85	27.82	5.93	29.46	6.08	31.09	6.24
	21.0	20.95	2.77	22.45	3.13	25.47	4.18	26.97	4.99	27.79	6.00	29.42	6.16	31.05	6.32
	23.0	20.89	2.96	22.40	3.38	25.40	4.47	26.90	5.28	27.72	6.16	29.34	6.32	30.97	6.48
	25.0	20.84	3.15	22.34	3.63	25.33	4.77	26.83	5.57	27.64	6.31	29.26	6.47	30.88	6.63
	27.0	20.78	3.35	22.28	3.87	25.27	5.06	26.76	5.85	27.57	6.46	29.19	6.63	30.80	6.79
	29.0	20.73	3.54	22.22	4.12	25.20	5.36	26.69	6.14	27.50	6.62	29.11	6.78	30.72	6.94
	31.0	20.67	3.74	22.16	4.37	25.13	5.65	26.62	6.43	27.42	6.77	29.03	6.93	30.64	7.10
	32.0	20.65	3.83	22.13	4.49	25.10	5.80	26.59	6.57	27.39	6.85	28.99	7.01	30.60	7.18
	33.0	20.62	3.93	22.10	4.61	25.07	5.94	26.55	6.71	27.35	6.92	28.96	7.09	30.56	7.26
	35.0	20.56	4.12	22.04	4.86	25.00	6.24	26.48	7.00	27.28	7.08	28.88	7.24	30.48	7.41
	37.0	20.26	4.32	21.71	5.11	24.63	6.52	26.08	7.21	26.87	7.29	28.45	6.93	30.02	6.56
	39.0	19.06	4.51	20.43	5.35	23.18	6.81	24.55	6.47	25.29	6.41	26.77	6.04	28.25	5.66
	40.0	18.47	4.60	19.79	5.47	22.45	6.33	23.78	6.10	24.50	5.97	25.93	5.59	27.37	5.21
	42.0	16.64	4.75	17.84	5.71	20.23	5.39	21.43	5.23	22.08	5.09	23.37	4.79	24.67	4.50
	43.0	15.73	4.82	16.86	5.19	19.13	4.93	20.26	4.79	20.87	4.64	22.09	4.39	23.32	4.14
	46.0	13.00	3.90	13.93	3.61	15.80	3.53	16.73	3.47	17.24	3.32	18.25	3.19	19.26	3.07
	52.0	7.53	1.60	8.07	1.46	9.15	1.41	9.69	1.39	9.98	1.24	10.57	1.25	11.15	1.27
120	-5.0	20.58	2.57	22.06	2.90	25.02	3.86	26.50	4.79	27.30	5.82	28.90	5.99	30.50	6.16
	0.0	20.58	2.58	22.06	2.91	25.02	3.88	26.50	4.78	27.30	5.82	28.90	5.98	30.50	6.15
	5.0	20.58	2.59	22.06	2.92	25.02	3.89	26.50	4.77	27.30	5.81	28.90	5.98	30.50	6.14
	10.0	20.58	2.60	22.06	2.93	25.02	3.91	26.50	4.76	27.30	5.81	28.90	5.97	30.50	6.13
	12.0	20.58	2.60	22.06	2.93	25.02	3.92	26.50	4.76	27.30	5.81	28.90	5.97	30.50	6.13
	14.0	20.58	2.60	22.06	2.93	25.02	3.92	26.50	4.76	27.30	5.80	28.90	5.96	30.50	6.12
	16.0	20.58	2.61	22.06	2.94	25.02	3.93	26.50	4.75	27.30	5.80	28.90	5.96	30.50	6.12
	18.0	20.58	2.61	22.06	2.94	25.02	3.94	26.50	4.75	27.30	5.80	28.90	5.96	30.50	6.11
	20.0	20.58	2.61	22.06	2.94	25.02	3.94	26.50	4.75	27.30	5.80	28.90	5.95	30.50	6.11
	21.0	20.55	2.71	22.03	3.06	24.99	4.09	26.47	4.89	27.27	5.87	28.86	6.03	30.46	6.18
	23.0	20.50	2.90	21.97	3.31	24.92	4.38	26.40	5.17	27.19	6.02	28.79	6.18	30.38	6.34
	25.0	20.45	3.09	21.92	3.55	24.86	4.66	26.33	5.45	27.12	6.17	28.71	6.33	30.30	6.49
	27.0	20.39	3.28	21.86	3.79	24.79	4.95	26.26	5.73	27.05	6.32	28.64	6.48	30.22	6.64
	29.0	20.34	3.47	21.80	4.03	24.73	5.24	26.19	6.01	26.98	6.47	28.56	6.63	30.14	6.79
	31.0	20.29	3.65	21.74	4.27	24.66	5.53	26.12	6.29	26.91	6.62	28.49	6.78	30.06	6.95
	32.0	20.26	3.75	21.71	4.39	24.63	5.67	26.08	6.43	26.87	6.70	28.45	6.86	30.02	7.02
	33.0	20.23	3.84	21.69	4.51	24.60	5.82	26.05	6.57	26.84	6.77	28.41	6.94	29.98	7.10
	35.0	20.18	4.03	21.63	4.75	24.53	6.10	25.98	6.85	26.77	6.92	28.33	7.09	29.90	7.25
	37.0	19.87	4.23	21.30	5.00	24.16	6.38	25.59	7.05	26.36	7.13	27.91	6.78	29.46	6.42
	39.0	18.70	4.41	20.05	5.23	22.74	6.66	24.08	6.33	24.81	6.27	26.27	5.91	27.72	5.54
	40.0	18.12	4.50	19.42	5.35	22.03	6.19	23.33	5.97	24.04	5.84	25.44	5.47	26.85	5.10
	42.0	16.33	4.65	17.50	5.59	19.85	5.28	21.03	5.11	21.66	4.98	22.93	4.69	24.20	4.40
	43.0	15.44	4.72	16.55	5.07	18.77	4.82	19.88	4.68	20.48	4.54	21.68	4.30	22.88	4.05
	46.0	12.75	3.82	13.67	3.54	15.50	3.45	16.42	3.40	16.92	3.25	17.91	3.12	18.90	3.00
	52.0	7.38	1.56	7.92	1.43	8.98	1.38	9.51	1.36	9.80	1.21	10.37	1.23	10.94	1.25

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

PUMY-P-YKM3, PUMY-CP-YKM2

8. CAPACITY TABLES

S-Series

PUMY-P225YKM3-PA,DA(-BS)/PUMY-CP225YKM2-PA,DA(-BS)/PUMY-CP225YKM2-TH

TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor air temp.	Indoor air temp.													
		22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC
110	-5.0	20.19	2.52	21.64	2.84	24.54	3.77	25.99	4.69	26.78	5.69	28.35	5.86	29.92	6.03
	0.0	20.19	2.52	21.64	2.84	24.54	3.79	25.99	4.68	26.78	5.69	28.35	5.85	29.92	6.02
	5.0	20.19	2.53	21.64	2.85	24.54	3.81	25.99	4.67	26.78	5.68	28.35	5.84	29.92	6.01
	10.0	20.19	2.54	21.64	2.86	24.54	3.82	25.99	4.66	26.78	5.68	28.35	5.84	29.92	5.99
	12.0	20.19	2.54	21.64	2.87	24.54	3.83	25.99	4.66	26.78	5.68	28.35	5.83	29.92	5.99
	14.0	20.19	2.55	21.64	2.87	24.54	3.84	25.99	4.65	26.78	5.68	28.35	5.83	29.92	5.99
	16.0	20.19	2.55	21.64	2.87	24.54	3.84	25.99	4.65	26.78	5.67	28.35	5.83	29.92	5.98
	18.0	20.19	2.55	21.64	2.88	24.54	3.85	25.99	4.64	26.78	5.67	28.35	5.83	29.92	5.98
	20.0	20.19	2.55	21.64	2.88	24.54	3.86	25.99	4.64	26.78	5.67	28.35	5.82	29.92	5.97
	21.0	20.16	2.65	21.61	3.00	24.51	4.00	25.96	4.78	26.74	5.74	28.31	5.90	29.88	6.05
	23.0	20.11	2.83	21.55	3.23	24.44	4.28	25.89	5.05	26.67	5.89	28.24	6.04	29.80	6.20
	25.0	20.05	3.02	21.50	3.47	24.38	4.56	25.82	5.33	26.60	6.04	28.16	6.19	29.72	6.35
	27.0	20.00	3.20	21.44	3.71	24.32	4.84	25.75	5.60	26.53	6.18	28.09	6.34	29.64	6.49
	29.0	19.95	3.39	21.38	3.94	24.25	5.12	25.69	5.87	26.46	6.33	28.01	6.49	29.56	6.64
	31.0	19.90	3.57	21.33	4.18	24.19	5.41	25.62	6.15	26.39	6.48	27.94	6.64	29.49	6.79
	32.0	19.87	3.67	21.30	4.30	24.16	5.55	25.58	6.29	26.36	6.55	27.90	6.71	29.45	6.87
	33.0	19.84	3.76	21.27	4.41	24.12	5.69	25.55	6.42	26.32	6.62	27.87	6.78	29.41	6.94
	35.0	19.79	3.95	21.21	4.65	24.06	5.97	25.48	6.70	26.25	6.77	27.79	6.93	29.33	7.09
	37.0	19.49	4.14	20.90	4.89	23.70	6.24	25.10	6.90	25.86	6.98	27.37	6.63	28.89	6.28
	39.0	18.35	4.31	19.66	5.12	22.30	6.51	23.62	6.19	24.34	6.13	25.76	5.78	27.19	5.42
	40.0	17.77	4.40	19.05	5.23	21.61	6.05	22.88	5.84	23.57	5.71	24.96	5.35	26.34	4.99
	42.0	16.02	4.54	17.17	5.46	19.47	5.16	20.62	5.00	21.25	4.87	22.49	4.58	23.74	4.30
	43.0	15.14	4.62	16.23	4.96	18.41	4.71	19.49	4.58	20.08	4.44	21.26	4.20	22.44	3.96
	46.0	12.51	3.73	13.41	3.46	15.21	3.37	16.10	3.32	16.59	3.17	17.56	3.05	18.54	2.93
	52.0	7.24	1.53	7.76	1.40	8.81	1.35	9.33	1.33	9.61	1.19	10.17	1.20	10.73	1.22
100	-5.0	19.80	2.46	21.23	2.77	24.08	3.69	25.50	4.58	26.27	5.56	27.81	5.72	29.35	5.89
	0.0	19.80	2.47	21.23	2.78	24.08	3.70	25.50	4.57	26.27	5.56	27.81	5.72	29.35	5.88
	5.0	19.80	2.47	21.23	2.79	24.08	3.72	25.50	4.56	26.27	5.55	27.81	5.71	29.35	5.87
	10.0	19.80	2.48	21.23	2.80	24.08	3.73	25.50	4.55	26.27	5.55	27.81	5.70	29.35	5.85
	12.0	19.80	2.48	21.23	2.80	24.08	3.74	25.50	4.55	26.27	5.55	27.81	5.70	29.35	5.85
	14.0	19.80	2.49	21.23	2.80	24.08	3.75	25.50	4.54	26.27	5.54	27.81	5.70	29.35	5.85
	16.0	19.80	2.49	21.23	2.81	24.08	3.75	25.50	4.54	26.27	5.54	27.81	5.69	29.35	5.84
	18.0	19.80	2.49	21.23	2.81	24.08	3.76	25.50	4.54	26.27	5.54	27.81	5.69	29.35	5.84
	20.0	19.80	2.49	21.23	2.81	24.08	3.77	25.50	4.53	26.27	5.54	27.81	5.69	29.35	5.83
	21.0	19.78	2.59	21.20	2.93	24.04	3.90	25.47	4.67	26.24	5.61	27.77	5.76	29.31	5.91
	23.0	19.73	2.77	21.14	3.16	23.98	4.18	25.40	4.93	26.17	5.75	27.70	5.90	29.24	6.05
	25.0	19.67	2.95	21.09	3.39	23.92	4.45	25.33	5.20	26.10	5.90	27.63	6.05	29.16	6.20
	27.0	19.62	3.13	21.03	3.62	23.86	4.73	25.27	5.47	26.03	6.04	27.56	6.19	29.08	6.34
	29.0	19.57	3.31	20.98	3.85	23.79	5.01	25.20	5.74	25.96	6.18	27.48	6.34	29.01	6.49
	31.0	19.52	3.49	20.92	4.08	23.73	5.28	25.13	6.00	25.89	6.33	27.41	6.48	28.93	6.63
	32.0	19.49	3.58	20.90	4.20	23.70	5.42	25.10	6.14	25.86	6.40	27.37	6.55	28.89	6.71
	33.0	19.47	3.67	20.87	4.31	23.67	5.56	25.07	6.27	25.82	6.47	27.34	6.62	28.85	6.78
	35.0	19.42	3.85	20.81	4.54	23.60	5.83	25.00	6.54	25.76	6.61	27.27	6.77	28.78	6.93
	37.0	19.12	4.04	20.50	4.78	23.25	6.10	24.63	6.74	25.37	6.81	26.86	6.47	28.34	6.13
	39.0	18.00	4.21	19.29	5.00	21.88	6.36	23.18	6.05	23.87	5.99	25.27	5.64	26.67	5.29
	40.0	17.44	4.30	18.69	5.11	21.20	5.91	22.45	5.70	23.13	5.58	24.48	5.23	25.84	4.87
	42.0	15.71	4.44	16.84	5.34	19.10	5.04	20.23	4.88	20.84	4.75	22.07	4.48	23.29	4.20
	43.0	14.85	4.51	15.92	4.85	18.06	4.60	19.13	4.47	19.70	4.34	20.86	4.10	22.01	3.87
	46.0	12.27	3.65	13.15	3.38	14.92	3.30	15.80	3.24	16.28	3.10	17.23	2.98	18.19	2.86
	52.0	7.11	1.49	7.62	1.37	8.64	1.32	9.15	1.29	9.43	1.16	9.98	1.17	10.53	1.19

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

8. CAPACITY TABLES

S-Series

PUMY-P225YKM3-PA,DA(-BS)/PUMY-CP225YKM2-PA,DA(-BS)/PUMY-CP225YKM2-TH

TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor air temp.	Indoor air temp.													
		22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC
90	-5.0	17.81	2.18	19.09	2.45	21.65	3.27	22.93	4.06	23.62	4.93	25.01	5.07	26.39	5.22
	0.0	17.81	2.18	19.09	2.46	21.65	3.28	22.93	4.05	23.62	4.92	25.01	5.06	26.39	5.21
	5.0	17.81	2.19	19.09	2.47	21.65	3.29	22.93	4.04	23.62	4.92	25.01	5.06	26.39	5.20
	10.0	17.81	2.20	19.09	2.48	21.65	3.31	22.93	4.03	23.62	4.91	25.01	5.05	26.39	5.19
	12.0	17.81	2.20	19.09	2.48	21.65	3.31	22.93	4.03	23.62	4.91	25.01	5.05	26.39	5.18
	14.0	17.81	2.20	19.09	2.48	21.65	3.32	22.93	4.03	23.62	4.91	25.01	5.05	26.39	5.18
	16.0	17.81	2.21	19.09	2.49	21.65	3.33	22.93	4.02	23.62	4.91	25.01	5.04	26.39	5.18
	18.0	17.81	2.21	19.09	2.49	21.65	3.33	22.93	4.02	23.62	4.91	25.01	5.04	26.39	5.17
	20.0	17.81	2.21	19.09	2.49	21.65	3.34	22.93	4.02	23.62	4.91	25.01	5.04	26.39	5.17
	21.0	17.78	2.29	19.06	2.59	21.62	3.46	22.90	4.13	23.59	4.97	24.97	5.10	26.36	5.23
	23.0	17.74	2.45	19.01	2.80	21.56	3.70	22.84	4.37	23.53	5.10	24.91	5.23	26.29	5.36
	25.0	17.69	2.61	18.96	3.00	21.51	3.95	22.78	4.61	23.47	5.22	24.84	5.36	26.22	5.49
	27.0	17.64	2.77	18.91	3.21	21.45	4.19	22.72	4.85	23.40	5.35	24.78	5.49	26.15	5.62
	29.0	17.60	2.93	18.86	3.41	21.39	4.43	22.66	5.08	23.34	5.48	24.71	5.61	26.08	5.75
	31.0	17.55	3.09	18.81	3.62	21.34	4.68	22.60	5.32	23.28	5.60	24.65	5.74	26.01	5.88
	32.0	17.53	3.17	18.79	3.72	21.31	4.80	22.57	5.44	23.25	5.67	24.61	5.81	25.98	5.94
	33.0	17.50	3.25	18.76	3.82	21.28	4.92	22.54	5.56	23.22	5.73	24.58	5.87	25.94	6.01
	35.0	17.46	3.41	18.71	4.02	21.22	5.17	22.48	5.79	23.16	5.86	24.51	6.00	25.87	6.14
	37.0	17.20	3.58	18.43	4.23	20.90	5.40	22.14	5.97	22.81	6.04	24.15	5.74	25.48	5.44
	39.0	16.18	3.73	17.35	4.43	19.67	5.64	20.84	5.36	21.47	5.31	22.73	5.00	23.98	4.69
	40.0	15.68	3.81	16.80	4.53	19.06	5.24	20.19	5.05	20.80	4.94	22.01	4.63	23.23	4.32
	42.0	14.13	3.93	15.14	4.73	17.18	4.47	18.19	4.33	18.74	4.21	19.84	3.97	20.94	3.72
	43.0	13.35	3.99	14.32	4.29	16.24	4.08	17.20	3.96	17.72	3.84	18.75	3.64	19.79	3.43
	46.0	11.03	3.23	11.83	2.99	13.41	2.92	14.21	2.87	14.64	2.75	15.49	2.64	16.35	2.54
	52.0	6.39	1.32	6.85	1.21	7.77	1.17	8.23	1.15	8.48	1.03	8.97	1.04	9.47	1.05
80	-5.0	15.83	1.92	16.97	2.16	19.24	2.88	20.38	3.57	21.00	4.34	22.23	4.47	23.46	4.59
	0.0	15.83	1.92	16.97	2.17	19.24	2.89	20.38	3.57	21.00	4.33	22.23	4.46	23.46	4.58
	5.0	15.83	1.93	16.97	2.17	19.24	2.90	20.38	3.56	21.00	4.33	22.23	4.45	23.46	4.58
	10.0	15.83	1.94	16.97	2.18	19.24	2.91	20.38	3.55	21.00	4.33	22.23	4.45	23.46	4.57
	12.0	15.83	1.94	16.97	2.18	19.24	2.92	20.38	3.55	21.00	4.33	22.23	4.45	23.46	4.57
	14.0	15.83	1.94	16.97	2.19	19.24	2.92	20.38	3.55	21.00	4.33	22.23	4.44	23.46	4.56
	16.0	15.83	1.94	16.97	2.19	19.24	2.93	20.38	3.54	21.00	4.33	22.23	4.44	23.46	4.56
	18.0	15.83	1.94	16.97	2.19	19.24	2.93	20.38	3.54	21.00	4.32	22.23	4.44	23.46	4.56
	20.0	15.83	1.95	16.97	2.19	19.24	2.94	20.38	3.54	21.00	4.32	22.23	4.44	23.46	4.55
	21.0	15.81	2.02	16.94	2.28	19.22	3.05	20.35	3.64	20.97	4.38	22.20	4.49	23.43	4.61
	23.0	15.77	2.16	16.90	2.46	19.17	3.26	20.30	3.85	20.91	4.49	22.14	4.61	23.37	4.72
	25.0	15.72	2.30	16.86	2.64	19.12	3.48	20.25	4.06	20.86	4.60	22.08	4.72	23.30	4.84
	27.0	15.68	2.44	16.81	2.82	19.07	3.69	20.19	4.27	20.80	4.71	22.02	4.83	23.24	4.95
	29.0	15.64	2.58	16.77	3.00	19.02	3.91	20.14	4.48	20.75	4.82	21.97	4.94	23.18	5.06
	31.0	15.60	2.72	16.72	3.18	18.97	4.12	20.09	4.69	20.69	4.94	21.91	5.06	23.12	5.18
	32.0	15.58	2.79	16.70	3.27	18.94	4.23	20.06	4.79	20.67	4.99	21.88	5.11	23.09	5.23
	33.0	15.56	2.87	16.68	3.36	18.92	4.34	20.03	4.89	20.64	5.05	21.85	5.17	23.06	5.29
	35.0	15.52	3.01	16.63	3.54	18.87	4.55	19.98	5.10	20.58	5.16	21.79	5.28	23.00	5.40
	37.0	15.28	3.15	16.38	3.73	18.58	4.76	19.68	5.26	20.28	5.32	21.46	5.05	22.65	4.79
	39.0	14.38	3.29	15.42	3.90	17.49	4.96	18.52	4.72	19.08	4.67	20.20	4.40	21.32	4.13
	40.0	13.93	3.36	14.94	3.99	16.94	4.61	17.94	4.45	18.48	4.35	19.57	4.08	20.65	3.80
	42.0	12.56	3.46	13.46	4.16	15.27	3.93	16.17	3.81	16.66	3.71	17.64	3.49	18.61	3.28
	43.0	11.87	3.52	12.72	3.78	14.43	3.59	15.29	3.49	15.75	3.39	16.67	3.20	17.59	3.02
	46.0	9.81	2.85	10.51	2.64	11.92	2.57	12.63	2.53	13.01	2.42	13.77	2.33	14.53	2.24
	52.0	5.68	1.16	6.09	1.07	6.90	1.03	7.31	1.01	7.53	0.90	7.98	0.91	8.42	0.93

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

PUMY-P-YKM3, PUMY-CP-YKM2

8. CAPACITY TABLES

S-Series

PUMY-P225YKM3-PA,DA(-BS)/PUMY-CP225YKM2-PA,DA(-BS)/PUMY-CP225YKM2-TH

TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor air temp.	Indoor air temp.													
		22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
	°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70	-5.0	13.85	1.67	14.85	1.89	16.84	2.51	17.83	3.12	18.37	3.79	19.45	3.90	20.53	4.01
	0.0	13.85	1.68	14.85	1.89	16.84	2.52	17.83	3.11	18.37	3.78	19.45	3.89	20.53	4.00
	5.0	13.85	1.68	14.85	1.90	16.84	2.53	17.83	3.11	18.37	3.78	19.45	3.89	20.53	3.99
	10.0	13.85	1.69	14.85	1.90	16.84	2.54	17.83	3.10	18.37	3.78	19.45	3.88	20.53	3.99
	12.0	13.85	1.69	14.85	1.91	16.84	2.55	17.83	3.10	18.37	3.78	19.45	3.88	20.53	3.98
	14.0	13.85	1.69	14.85	1.91	16.84	2.55	17.83	3.09	18.37	3.78	19.45	3.88	20.53	3.98
	16.0	13.85	1.70	14.85	1.91	16.84	2.56	17.83	3.09	18.37	3.77	19.45	3.88	20.53	3.98
	18.0	13.85	1.70	14.85	1.91	16.84	2.56	17.83	3.09	18.37	3.77	19.45	3.87	20.53	3.98
	20.0	13.85	1.70	14.85	1.91	16.84	2.57	17.83	3.09	18.37	3.77	19.45	3.87	20.53	3.97
	21.0	13.83	1.76	14.83	1.99	16.82	2.66	17.81	3.18	18.35	3.82	19.42	3.92	20.50	4.02
	23.0	13.80	1.88	14.79	2.15	16.77	2.85	17.76	3.36	18.30	3.92	19.37	4.02	20.45	4.12
	25.0	13.76	2.01	14.75	2.31	16.73	3.03	17.72	3.54	18.25	4.02	19.32	4.12	20.39	4.22
	27.0	13.72	2.13	14.71	2.46	16.68	3.22	17.67	3.72	18.20	4.11	19.27	4.22	20.34	4.32
	29.0	13.69	2.25	14.67	2.62	16.64	3.41	17.62	3.91	18.16	4.21	19.22	4.31	20.28	4.42
	31.0	13.65	2.38	14.63	2.78	16.59	3.60	17.58	4.09	18.11	4.31	19.17	4.41	20.23	4.52
	32.0	13.63	2.44	14.61	2.86	16.57	3.69	17.55	4.18	18.08	4.36	19.14	4.46	20.20	4.57
	33.0	13.61	2.50	14.59	2.94	16.55	3.78	17.53	4.27	18.06	4.41	19.12	4.51	20.18	4.62
	35.0	13.58	2.62	14.55	3.09	16.51	3.97	17.48	4.45	18.01	4.50	19.07	4.61	20.12	4.72
	37.0	13.37	2.75	14.34	3.25	16.26	4.15	17.22	4.59	17.74	4.64	18.78	4.41	19.82	4.18
	39.0	12.59	2.87	13.49	3.40	15.30	4.33	16.21	4.12	16.70	4.08	17.68	3.84	18.65	3.60
	40.0	12.19	2.93	13.07	3.48	14.82	4.03	15.70	3.88	16.17	3.80	17.12	3.56	18.07	3.32
	42.0	10.99	3.02	11.78	3.63	13.36	3.43	14.15	3.33	14.58	3.24	15.43	3.05	16.29	2.86
	43.0	10.39	3.07	11.13	3.30	12.63	3.14	13.37	3.05	13.78	2.96	14.59	2.79	15.39	2.63
	46.0	8.58	2.48	9.20	2.30	10.43	2.24	11.05	2.21	11.38	2.11	12.05	2.03	12.72	1.95
	52.0	4.97	1.02	5.33	0.93	6.04	0.90	6.40	0.88	6.59	0.79	6.98	0.80	7.37	0.81
60	-5.0	11.87	1.44	12.72	1.62	14.43	2.16	15.29	2.68	15.75	3.26	16.67	3.35	17.59	3.45
	0.0	11.87	1.44	12.72	1.63	14.43	2.17	15.29	2.68	15.75	3.26	16.67	3.35	17.59	3.44
	5.0	11.87	1.45	12.72	1.63	14.43	2.18	15.29	2.67	15.75	3.25	16.67	3.35	17.59	3.44
	10.0	11.87	1.45	12.72	1.64	14.43	2.19	15.29	2.67	15.75	3.25	16.67	3.34	17.59	3.43
	12.0	11.87	1.46	12.72	1.64	14.43	2.19	15.29	2.66	15.75	3.25	16.67	3.34	17.59	3.43
	14.0	11.87	1.46	12.72	1.64	14.43	2.20	15.29	2.66	15.75	3.25	16.67	3.34	17.59	3.43
	16.0	11.87	1.46	12.72	1.64	14.43	2.20	15.29	2.66	15.75	3.25	16.67	3.34	17.59	3.42
	18.0	11.87	1.46	12.72	1.65	14.43	2.20	15.29	2.66	15.75	3.25	16.67	3.33	17.59	3.42
	20.0	11.87	1.46	12.72	1.65	14.43	2.21	15.29	2.66	15.75	3.25	16.67	3.33	17.59	3.42
	21.0	11.86	1.52	12.71	1.72	14.41	2.29	15.27	2.73	15.73	3.29	16.65	3.37	17.57	3.46
	23.0	11.82	1.62	12.67	1.85	14.38	2.45	15.23	2.89	15.69	3.37	16.60	3.46	17.52	3.55
	25.0	11.79	1.73	12.64	1.99	14.34	2.61	15.19	3.05	15.64	3.46	16.56	3.54	17.48	3.63
	27.0	11.76	1.83	12.61	2.12	14.30	2.77	15.15	3.20	15.60	3.54	16.52	3.63	17.43	3.72
	29.0	11.73	1.94	12.57	2.26	14.26	2.93	15.11	3.36	15.56	3.62	16.47	3.71	17.39	3.80
	31.0	11.70	2.05	12.54	2.39	14.22	3.09	15.07	3.52	15.52	3.71	16.43	3.80	17.34	3.89
	32.0	11.68	2.10	12.53	2.46	14.21	3.17	15.05	3.60	15.50	3.75	16.41	3.84	17.32	3.93
	33.0	11.67	2.15	12.51	2.53	14.19	3.26	15.03	3.68	15.48	3.79	16.39	3.88	17.29	3.97
	35.0	11.64	2.26	12.48	2.66	14.15	3.42	14.99	3.83	15.44	3.87	16.34	3.97	17.25	4.06
	37.0	11.46	2.37	12.29	2.80	13.94	3.57	14.76	3.95	15.21	3.99	16.10	3.79	16.99	3.59
	39.0	10.79	2.47	11.56	2.93	13.12	3.73	13.89	3.54	14.31	3.51	15.15	3.31	15.99	3.10
	40.0	10.45	2.52	11.20	2.99	12.71	3.46	13.46	3.34	13.86	3.27	14.68	3.06	15.49	2.86
	42.0	9.42	2.60	10.10	3.13	11.45	2.95	12.13	2.86	12.49	2.78	13.23	2.62	13.96	2.46
	43.0	8.90	2.64	9.54	2.84	10.82	2.70	11.46	2.62	11.81	2.54	12.50	2.40	13.20	2.27
	46.0	7.36	2.14	7.88	1.98	8.94	1.93	9.47	1.90	9.76	1.82	10.33	1.75	10.90	1.68
	52.0	4.26	0.87	4.57	0.80	5.18	0.77	5.48	0.76	5.65	0.68	5.98	0.69	6.31	0.70

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

8. CAPACITY TABLES

S-Series

PUMY-P225YKM3-PA,DA(-BS)/PUMY-CP225YKM2-PA,DA(-BS)/PUMY-CP225YKM2-TH

TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor air temp.	Indoor air temp.													
		22°C D.B. 15°C W.B.		23°C D.B. 16°C W.B.		25°C D.B. 18°C W.B.		27°C D.B. 19°C W.B.		28°C D.B. 20°C W.B.		30°C D.B. 22°C W.B.		32°C D.B. 24°C W.B.	
		°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC
50	-5.0	9.89	1.21	10.60	1.37	12.03	1.82	12.74	2.26	13.12	2.74	13.89	2.82	14.66	2.90
	0.0	9.89	1.22	10.60	1.37	12.03	1.83	12.74	2.25	13.12	2.74	13.89	2.82	14.66	2.90
	5.0	9.89	1.22	10.60	1.37	12.03	1.83	12.74	2.25	13.12	2.74	13.89	2.82	14.66	2.89
	10.0	9.89	1.22	10.60	1.38	12.03	1.84	12.74	2.25	13.12	2.74	13.89	2.81	14.66	2.89
	12.0	9.89	1.23	10.60	1.38	12.03	1.85	12.74	2.24	13.12	2.74	13.89	2.81	14.66	2.89
	14.0	9.89	1.23	10.60	1.38	12.03	1.85	12.74	2.24	13.12	2.74	13.89	2.81	14.66	2.88
	16.0	9.89	1.23	10.60	1.38	12.03	1.85	12.74	2.24	13.12	2.73	13.89	2.81	14.66	2.88
	18.0	9.89	1.23	10.60	1.39	12.03	1.86	12.74	2.24	13.12	2.73	13.89	2.81	14.66	2.88
	20.0	9.89	1.23	10.60	1.39	12.03	1.86	12.74	2.24	13.12	2.73	13.89	2.81	14.66	2.88
	21.0	9.88	1.28	10.59	1.44	12.01	1.93	12.72	2.30	13.11	2.77	13.87	2.84	14.64	2.91
	23.0	9.85	1.36	10.56	1.56	11.98	2.06	12.69	2.43	13.07	2.84	13.84	2.91	14.60	2.99
	25.0	9.83	1.45	10.53	1.67	11.95	2.20	12.65	2.57	13.04	2.91	13.80	2.98	14.57	3.06
	27.0	9.80	1.54	10.51	1.79	11.92	2.33	12.62	2.70	13.00	2.98	13.76	3.05	14.53	3.13
	29.0	9.78	1.63	10.48	1.90	11.88	2.47	12.59	2.83	12.97	3.05	13.73	3.13	14.49	3.20
	31.0	9.75	1.72	10.45	2.01	11.85	2.61	12.55	2.96	12.93	3.12	13.69	3.20	14.45	3.27
	32.0	9.74	1.77	10.44	2.07	11.84	2.67	12.54	3.03	12.92	3.16	13.67	3.23	14.43	3.31
	33.0	9.72	1.81	10.42	2.13	11.82	2.74	12.52	3.09	12.90	3.19	13.66	3.27	14.41	3.35
	35.0	9.70	1.90	10.40	2.24	11.79	2.88	12.49	3.23	12.87	3.26	13.62	3.34	14.37	3.42
	37.0	9.55	1.99	10.24	2.36	11.61	3.01	12.30	3.32	12.67	3.36	13.42	3.19	14.16	3.03
	39.0	8.99	2.08	9.64	2.47	10.93	3.14	11.58	2.98	11.93	2.96	12.63	2.78	13.32	2.61
	40.0	8.71	2.12	9.34	2.52	10.59	2.92	11.21	2.81	11.55	2.75	12.23	2.58	12.91	2.40
	42.0	7.85	2.19	8.41	2.63	9.54	2.49	10.11	2.41	10.41	2.34	11.02	2.21	11.63	2.07
	43.0	7.42	2.22	7.95	2.39	9.02	2.27	9.55	2.21	9.84	2.14	10.42	2.02	11.00	1.91
	46.0	6.13	1.80	6.57	1.67	7.45	1.63	7.89	1.60	8.13	1.53	8.61	1.47	9.08	1.41
	52.0	3.55	0.74	3.80	0.67	4.32	0.65	4.57	0.64	4.71	0.57	4.98	0.58	5.26	0.59

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

PUMY-P-YKM3, PUMY-CP-YKM2

8-1-2. Heating capacity

PUMY-P175YKM3-PA,DA(-BS) TC: Total Capacity (kW), PI: Power Input (kW)

Combination (%)	Outdoor air temp.	Indoor air temp.							
		15°C D.B.		20°C D.B.		25°C D.B.		27°C D.B.	
		TC	PI	TC	PI	TC	PI	TC	PI
130	-20.0	13.54	3.42	11.36	3.81	9.09	4.49	8.31	4.81
	-17.5	14.59	3.67	12.24	4.13	9.79	4.80	8.95	5.11
	-15.0	15.63	3.93	13.11	4.45	10.49	5.10	9.58	5.41
	-12.5	16.67	4.18	13.99	4.74	11.19	5.43	10.22	5.79
	-10.0	17.71	4.43	14.86	5.02	11.89	5.77	10.86	6.17
	-7.5	19.94	4.93	16.73	5.65	13.38	6.38	12.23	5.93
	-5.0	21.62	5.45	18.14	6.19	14.51	6.31	13.26	5.43
	-2.5	23.01	5.94	19.30	6.66	15.44	5.76	14.11	4.89
	0.0	24.13	6.10	20.24	6.77	16.19	5.21	14.80	4.41
	2.5	25.02	5.54	20.99	6.15	16.79	4.66	15.34	4.03
	5.0	27.14	4.97	22.77	5.52	18.22	4.11	16.65	3.65
	6.0	27.42	4.75	23.00	5.27	18.40	3.88	16.81	3.49
	7.5	27.42	4.55	23.00	5.05	18.40	3.84	16.81	3.45
	10.0	27.42	4.05	23.00	4.50	18.40	3.43	16.81	3.16
	12.5	27.42	3.81	23.00	4.22	18.40	3.25	16.81	2.93
	15.0	27.42	3.44	23.00	3.82	18.40	3.00	16.81	2.71
120	-20.0	13.43	3.39	11.26	3.78	9.01	4.45	8.23	4.77
	-17.5	14.46	3.64	12.13	4.10	9.70	4.76	8.87	5.06
	-15.0	15.49	3.89	13.00	4.42	10.40	5.06	9.50	5.36
	-12.5	16.53	4.14	13.86	4.70	11.09	5.39	10.13	5.74
	-10.0	17.56	4.39	14.73	4.98	11.78	5.72	10.77	6.12
	-7.5	19.77	4.89	16.58	5.61	13.27	6.32	12.12	5.88
	-5.0	21.44	5.40	17.98	6.14	14.39	6.26	13.15	5.38
	-2.5	22.81	5.89	19.14	6.60	15.31	5.71	13.99	4.85
	0.0	23.92	6.05	20.07	6.71	16.05	5.17	14.67	4.37
	2.5	24.80	5.49	20.81	6.09	16.65	4.62	15.21	3.99
	5.0	26.91	4.93	22.57	5.47	18.06	4.07	16.50	3.62
	6.0	27.18	4.71	22.80	5.23	18.24	3.85	16.67	3.46
	7.5	27.18	4.51	22.80	5.00	18.24	3.80	16.67	3.42
	10.0	27.18	4.02	22.80	4.46	18.24	3.40	16.67	3.13
	12.5	27.18	3.77	22.80	4.19	18.24	3.22	16.67	2.91
	15.0	27.18	3.41	22.80	3.79	18.24	2.98	16.67	2.69
110	-20.0	13.31	3.36	11.16	3.75	8.93	4.41	8.16	4.72
	-17.5	14.33	3.61	12.02	4.06	9.62	4.71	8.79	5.02
	-15.0	15.36	3.86	12.88	4.38	10.31	5.01	9.42	5.32
	-12.5	16.38	4.11	13.74	4.66	10.99	5.34	10.04	5.69
	-10.0	17.40	4.35	14.60	4.94	11.68	5.67	10.67	6.07
	-7.5	19.59	4.84	16.44	5.56	13.15	6.27	12.02	5.83
	-5.0	21.25	5.35	17.82	6.08	14.26	6.21	13.03	5.34
	-2.5	22.61	5.84	18.97	6.54	15.17	5.66	13.87	4.81
	0.0	23.71	6.00	19.89	6.66	15.91	5.12	14.54	4.33
	2.5	24.58	5.44	20.62	6.04	16.50	4.58	15.08	3.96
	5.0	26.67	4.89	22.37	5.43	17.90	4.04	16.36	3.58
	6.0	26.94	4.67	22.60	5.18	18.08	3.82	16.52	3.43
	7.5	26.94	4.47	22.60	4.96	18.08	3.77	16.52	3.39
	10.0	26.94	3.98	22.60	4.42	18.08	3.37	16.52	3.10
	12.5	26.94	3.74	22.60	4.15	18.08	3.19	16.52	2.88
	15.0	26.94	3.38	22.60	3.76	18.08	2.95	16.52	2.67
100	-20.0	13.19	3.33	11.07	3.72	8.85	4.38	8.09	4.69
	-17.5	14.20	3.58	11.92	4.03	9.53	4.68	8.71	4.98
	-15.0	15.22	3.83	12.77	4.34	10.21	4.98	9.33	5.27
	-12.5	16.23	4.07	13.62	4.62	10.90	5.30	9.96	5.65
	-10.0	17.25	4.32	14.47	4.90	11.58	5.62	10.58	6.02
	-7.5	19.42	4.81	16.29	5.51	13.03	6.22	11.91	5.78
	-5.0	21.06	5.31	17.67	6.04	14.13	6.16	12.91	5.29
	-2.5	22.41	5.80	18.80	6.49	15.04	5.62	13.74	4.77
	0.0	23.50	5.95	19.71	6.60	15.77	5.08	14.41	4.30
	2.5	24.36	5.40	20.44	5.99	16.35	4.54	14.94	3.93
	5.0	26.43	4.85	22.18	5.38	17.74	4.00	16.21	3.56
	6.0	26.70	4.63	22.40	5.14	17.92	3.79	16.37	3.41
	7.5	26.70	4.43	22.40	4.92	17.92	3.74	16.37	3.36
	10.0	26.70	3.95	22.40	4.38	17.92	3.34	16.37	3.08
	12.5	26.70	3.71	22.40	4.12	17.92	3.17	16.37	2.86
	15.0	26.70	3.36	22.40	3.73	17.92	2.93	16.37	2.65
90	-20.0	11.87	3.00	9.95	3.35	7.96	3.95	7.28	4.23
	-17.5	12.78	3.23	10.72	3.63	8.58	4.22	7.84	4.49
	-15.0	13.69	3.45	11.49	3.91	9.19	4.48	8.40	4.75
	-12.5	14.60	3.67	12.25	4.16	9.80	4.78	8.96	5.09
	-10.0	15.52	3.89	13.02	4.42	10.41	5.07	9.52	5.42
	-7.5	17.47	4.33	14.66	4.97	11.72	5.60	10.71	5.21
	-5.0	18.94	4.79	15.89	5.44	12.71	5.55	11.62	4.77
	-2.5	20.16	5.23	16.91	5.85	13.53	5.06	12.36	4.30
	0.0	21.14	5.36	17.73	5.95	14.19	4.58	12.96	3.87
	2.5	21.92	4.87	18.39	5.40	14.71	4.09	13.44	3.54
	5.0	23.78	4.37	19.95	4.85	15.96	3.61	14.58	3.21
	6.0	24.02	4.17	20.15	4.63	16.12	3.41	14.73	3.07
	7.5	24.02	4.00	20.15	4.44	16.12	3.37	14.73	3.03
	10.0	24.02	3.56	20.15	3.95	16.12	3.01	14.73	2.78
	12.5	24.02	3.35	20.15	3.71	16.12	.86	14.73	2.58
	15.0	24.02	3.03	20.15	3.36	16.12	2.64	14.73	2.39

* Corrections for piping length are not taken into account. Please contact the sales company for questions.

kcal/h = kW x 860, BTU/h = kW x 3,412

8. CAPACITY TABLES

S-Series

PUMY-P-YKM3, PUMY-CP-YKM2

PUMY-P175YKM3-PA,DA(-BS)									
TC: Total Capacity (kW), PI: Power Input (kW)									
Combination (%)	Outdoor air temp. °C D.B.	Indoor air temp.							
		15°C D.B.		20°C D.B.		25°C D.B.		27°C D.B.	
		TC	PI	TC	PI	TC	PI	TC	PI
80	-20.0	10.54	2.69	8.84	3.00	7.08	3.54	6.46	3.78
	-17.5	11.35	2.89	9.52	3.25	7.62	3.78	6.96	4.02
	-15.0	12.16	3.09	10.20	3.51	8.16	4.02	7.46	4.26
	-12.5	12.97	3.29	10.88	3.73	8.71	4.28	7.96	4.56
	-10.0	13.79	3.49	11.57	3.95	9.25	4.54	8.45	4.86
	-7.5	15.52	3.88	13.02	4.45	10.42	5.02	9.52	4.67
	-5.0	16.83	4.29	14.12	4.87	11.30	4.97	10.32	4.27
	-2.5	17.91	4.68	15.02	5.24	12.02	4.54	10.98	3.85
	0.0	18.78	4.80	15.75	5.33	12.60	4.10	11.52	3.47
	2.5	19.47	4.36	16.34	4.84	13.07	3.67	11.94	3.17
	5.0	21.13	3.92	17.72	4.35	14.18	3.23	12.96	2.87
	6.0	21.34	3.74	17.90	4.15	14.32	3.06	13.09	2.75
	7.5	21.34	3.58	17.90	3.97	14.32	3.02	13.09	2.71
	10.0	21.34	3.19	17.90	3.54	14.32	2.70	13.09	2.49
	12.5	21.34	3.00	17.90	3.33	14.32	2.56	13.09	2.31
	15.0	21.34	2.71	17.90	3.01	14.32	2.37	13.09	2.14
70	-20.0	9.22	2.39	7.74	2.66	6.19	3.14	5.65	3.36
	-17.5	9.93	2.56	8.33	2.89	6.66	3.35	6.09	3.57
	-15.0	10.64	2.74	8.93	3.11	7.14	3.56	6.52	3.78
	-12.5	11.35	2.92	9.52	3.31	7.62	3.80	6.96	4.04
	-10.0	12.06	3.09	10.12	3.51	8.09	4.03	7.39	4.31
	-7.5	13.58	3.44	11.39	3.95	9.11	4.45	8.33	4.14
	-5.0	14.72	3.81	12.35	4.32	9.88	4.41	9.03	3.79
	-2.5	15.66	4.15	13.14	4.65	10.51	4.03	9.61	3.42
	0.0	16.43	4.26	13.78	4.73	11.02	3.64	10.07	3.08
	2.5	17.03	3.87	14.29	4.29	11.43	3.25	10.44	2.81
	5.0	18.48	3.47	15.50	3.86	12.40	2.87	11.33	2.55
	6.0	18.67	3.32	15.66	3.68	12.53	2.71	11.45	2.44
	7.5	18.67	3.18	15.66	3.53	12.53	2.68	11.45	2.41
	10.0	18.67	2.83	15.66	3.14	12.53	2.39	11.45	2.21
	12.5	18.67	2.66	15.66	2.95	12.53	2.27	11.45	2.05
	15.0	18.67	2.40	15.66	2.67	12.53	2.10	11.45	1.90
60	-20.0	7.90	2.09	6.63	2.33	5.30	2.74	4.85	2.94
	-17.5	8.51	2.24	7.14	2.52	5.71	2.93	5.22	3.12
	-15.0	9.12	2.40	7.65	2.72	6.12	3.12	5.59	3.30
	-12.5	9.72	2.55	8.16	2.89	6.53	3.32	5.96	3.54
	-10.0	10.33	2.70	8.67	3.07	6.93	3.52	6.34	3.77
	-7.5	11.63	3.01	9.76	3.45	7.81	3.90	7.13	3.62
	-5.0	12.61	3.33	10.58	3.78	8.47	3.86	7.74	3.32
	-2.5	13.42	3.63	11.26	4.07	9.01	3.52	8.23	2.99
	0.0	14.08	3.73	11.81	4.14	9.45	3.18	8.63	2.69
	2.5	14.59	3.38	12.24	3.76	9.80	2.85	8.95	2.46
	5.0	15.83	3.04	13.28	3.37	10.63	2.51	9.71	2.23
	6.0	15.99	2.90	13.42	3.22	10.73	2.37	9.81	2.13
	7.5	15.99	2.78	13.42	3.08	10.73	2.34	9.81	2.11
	10.0	15.99	2.47	13.42	2.75	10.73	2.09	9.81	1.93
	12.5	15.99	2.32	13.42	2.58	10.73	1.98	9.81	1.79
	15.0	15.99	2.10	13.42	2.33	10.73	1.84	9.81	1.66
50	-20.0	6.58	1.79	5.52	1.99	4.42	2.35	4.04	2.51
	-17.5	7.09	1.92	5.95	2.16	4.76	2.51	4.35	2.67
	-15.0	7.60	2.05	6.37	2.33	5.10	2.67	4.66	2.83
	-12.5	8.10	2.18	6.80	2.48	5.44	2.84	4.97	3.03
	-10.0	8.61	2.31	7.22	2.63	5.78	3.01	5.28	3.23
	-7.5	9.69	2.58	8.13	2.96	6.51	3.33	5.95	3.10
	-5.0	10.51	2.85	8.82	3.23	7.05	3.30	6.45	2.84
	-2.5	11.19	3.11	9.38	3.48	7.51	3.01	6.86	2.56
	0.0	11.73	3.19	9.84	3.54	7.87	2.72	7.19	2.30
	2.5	12.16	2.89	10.20	3.21	8.16	2.43	7.46	2.10
	5.0	13.19	2.60	11.07	2.89	8.86	2.15	8.09	1.91
	6.0	13.33	2.48	11.18	2.75	8.95	2.03	8.17	1.83
	7.5	13.33	2.38	11.18	2.64	8.95	2.01	8.17	1.80
	10.0	13.33	2.12	11.18	2.35	8.95	1.79	8.17	1.65
	12.5	13.33	1.99	11.18	2.21	8.95	1.70	8.17	1.53
	15.0	13.33	1.80	11.18	2.00	8.95	1.57	8.17	1.42

* Corrections for piping length are not taken into account. Please contact the sales company for questions. kcal/h = kW x 860, BTU/h = kW x 3,412

8. CAPACITY TABLES

S-Series

PUMY-P-YKM3, PUMY-CP-YKM2

PUMY-P200YKM3-PA,DA(-BS)									
TC: Total Capacity (kW), PI: Power Input (kW)									
Combination (%)	Outdoor air temp.	Indoor air temp.							
		15°C D.B.		20°C D.B.		25°C D.B.		27°C D.B.	
		°C D.B.	TC	PI	TC	PI	TC	PI	TC
130	-20.0	15.12	3.98	12.68	4.44	10.15	5.23	9.27	5.60
	-17.5	16.28	4.28	13.66	4.82	10.93	5.59	9.98	5.95
	-15.0	17.44	4.58	14.63	5.19	11.71	5.95	10.70	6.30
	-12.5	18.61	4.87	15.61	5.52	12.49	6.33	11.41	6.75
	-10.0	19.77	5.16	16.58	5.85	13.27	6.72	12.12	7.19
	-7.5	22.26	5.74	18.67	6.59	14.94	7.43	13.65	6.91
	-5.0	24.13	6.35	20.25	7.21	16.20	7.36	14.80	6.33
	-2.5	25.68	6.93	21.55	7.76	17.24	6.71	15.75	5.70
	0.0	26.93	7.11	22.59	7.89	18.07	6.07	16.51	5.13
	2.5	27.92	6.45	23.43	7.16	18.74	5.43	17.12	4.69
	5.0	30.30	5.80	25.42	6.43	20.33	4.78	18.58	4.25
	6.0	30.60	5.53	25.67	6.14	20.54	4.53	18.77	4.07
	7.5	30.60	5.30	25.67	5.88	20.54	4.47	18.77	4.02
	10.0	30.60	4.72	25.67	5.24	20.54	3.99	18.77	3.68
	12.5	30.60	4.43	25.67	4.92	20.54	3.79	18.77	3.42
	15.0	30.60	4.01	25.67	4.45	20.54	3.50	18.77	3.16
120	-20.0	14.99	3.95	12.57	4.40	10.06	5.19	9.19	5.55
	-17.5	16.14	4.24	13.54	4.77	10.83	5.54	9.90	5.90
	-15.0	17.29	4.54	14.51	5.15	11.60	5.89	10.60	6.25
	-12.5	18.44	4.83	15.47	5.47	12.38	6.28	11.31	6.69
	-10.0	19.60	5.12	16.44	5.80	13.15	6.66	12.02	7.13
	-7.5	22.06	5.69	18.51	6.53	14.81	7.37	13.53	6.85
	-5.0	23.92	6.29	20.07	7.15	16.06	7.30	14.67	6.27
	-2.5	25.46	6.87	21.36	7.69	17.09	6.66	15.61	5.65
	0.0	26.69	7.05	22.39	7.83	17.92	6.02	16.37	5.09
	2.5	27.68	6.40	23.22	7.10	18.58	5.38	16.97	4.65
	5.0	30.03	5.75	25.19	6.38	20.15	4.74	18.42	4.21
	6.0	30.33	5.49	25.45	6.09	20.36	4.49	18.60	4.04
	7.5	30.33	5.25	25.45	5.83	20.36	4.43	18.60	3.98
	10.0	30.33	4.68	25.45	5.19	20.36	3.96	18.60	3.65
	12.5	30.33	4.40	25.45	4.88	20.36	3.75	18.60	3.39
	15.0	30.33	3.98	25.45	4.41	20.36	3.47	18.60	3.14
110	-20.0	14.85	3.91	12.46	4.36	9.97	5.14	9.11	5.51
	-17.5	16.00	4.20	13.42	4.73	10.74	5.49	9.81	5.85
	-15.0	17.14	4.50	14.38	5.10	11.50	5.84	10.51	6.19
	-12.5	18.28	4.78	15.34	5.43	12.27	6.22	11.21	6.63
	-10.0	19.42	5.07	16.29	5.75	13.04	6.60	11.91	7.07
	-7.5	21.87	5.65	18.35	6.48	14.68	7.30	13.41	6.79
	-5.0	23.71	6.24	19.89	7.09	15.92	7.23	14.54	6.22
	-2.5	25.23	6.81	21.17	7.62	16.94	6.60	15.47	5.60
	0.0	26.46	6.99	22.20	7.76	17.76	5.97	16.23	5.05
	2.5	27.44	6.34	23.02	7.04	18.41	5.34	16.83	4.61
	5.0	29.77	5.70	24.97	6.32	19.98	4.70	18.25	4.18
	6.0	30.07	5.44	25.22	6.04	20.18	4.45	18.44	4.00
	7.5	30.07	5.21	25.22	5.78	20.18	4.39	18.44	3.95
	10.0	30.07	4.64	25.22	5.15	20.18	3.92	18.44	3.62
	12.5	30.07	4.36	25.22	4.84	20.18	3.72	18.44	3.36
	15.0	30.07	3.94	25.22	4.38	20.18	3.44	18.44	3.11
100	-20.0	14.72	3.88	12.35	4.33	9.88	5.10	9.03	5.46
	-17.5	15.85	4.17	13.30	4.70	10.64	5.45	9.72	5.80
	-15.0	16.99	4.46	14.25	5.06	11.40	5.80	10.42	6.15
	-12.5	18.12	4.75	15.20	5.39	12.16	6.18	11.11	6.58
	-10.0	19.25	5.03	16.15	5.71	12.92	6.55	11.81	7.01
	-7.5	21.67	5.60	18.18	6.43	14.55	7.25	13.29	6.74
	-5.0	23.50	6.19	19.72	7.03	15.77	7.18	14.41	6.17
	-2.5	25.01	6.76	20.98	7.56	16.79	6.55	15.34	5.56
	0.0	26.22	6.93	22.00	7.70	17.60	5.92	16.08	5.01
	2.5	27.19	6.29	22.81	6.99	18.25	5.29	16.68	4.58
	5.0	29.50	5.65	24.75	6.27	19.80	4.67	18.09	4.14
	6.0	29.80	5.40	25.00	5.99	20.00	4.41	18.28	3.97
	7.5	29.80	5.17	25.00	5.73	20.00	4.36	18.28	3.92
	10.0	29.80	4.60	25.00	5.11	20.00	3.89	18.28	3.59
	12.5	29.80	4.33	25.00	4.80	20.00	3.69	18.28	3.33
	15.0	29.80	3.91	25.00	4.34	20.00	3.41	18.28	3.08
90	-20.0	13.24	3.50	11.11	3.90	8.89	4.60	8.12	4.92
	-17.5	14.26	3.76	11.96	4.23	9.57	4.91	8.75	5.23
	-15.0	15.28	4.02	12.82	4.56	10.25	5.23	9.37	5.54
	-12.5	16.30	4.28	13.67	4.85	10.94	5.57	10.00	5.93
	-10.0	17.32	4.54	14.53	5.15	11.62	5.91	10.62	6.32
	-7.5	19.50	5.05	16.36	5.79	13.09	6.53	11.96	6.07
	-5.0	21.14	5.58	17.74	6.34	14.19	6.47	12.97	5.56
	-2.5	22.50	6.09	18.87	6.82	15.10	5.90	13.80	5.01
	0.0	23.59	6.25	19.79	6.94	15.83	5.34	14.47	4.51
	2.5	24.46	5.67	20.52	6.30	16.42	4.77	15.00	4.12
	5.0	26.54	5.10	22.26	5.66	17.81	4.21	16.27	3.74
	6.0	26.81	4.86	22.49	5.40	17.99	3.98	16.44	3.58
	7.5	26.81	4.66	22.49	5.17	17.99	3.93	16.44	3.53
	10.0	26.81	4.15	22.49	4.61	17.99	3.51	16.44	3.23
	12.5	26.81	3.90	22.49	4.33	17.99	3.33	16.44	3.00
	15.0	26.81	3.53	22.49	3.91	17.99	3.08	16.44	2.78

* Corrections for piping length are not taken into account. Please contact the sales company for questions. kcal/h = kW x 860, BTU/h = kW x 3,412

8. CAPACITY TABLES

S-Series

PUMY-P-YKM3, PUMY-CP-YKM2

PUMY-P200YKM3-PA,DA(-BS)									
TC: Total Capacity (kW), PI: Power Input (kW)									
Combination (%)	Outdoor air temp. °C D.B.	Indoor air temp.							
		15°C D.B.		20°C D.B.		25°C D.B.		27°C D.B.	
		TC	PI	TC	PI	TC	PI	TC	PI
80	-20.0	11.77	3.13	9.87	3.50	7.90	4.12	7.22	4.41
	-17.5	12.67	3.37	10.63	3.79	8.50	4.40	7.77	4.69
	-15.0	13.58	3.60	11.39	4.09	9.11	4.68	8.33	4.96
	-12.5	14.48	3.83	12.15	4.35	9.72	4.99	8.88	5.31
	-10.0	15.39	4.06	12.91	4.61	10.33	5.29	9.44	5.66
	-7.5	17.32	4.52	14.53	5.19	11.63	5.85	10.62	5.44
	-5.0	18.78	5.00	15.76	5.68	12.61	5.79	11.52	4.98
	-2.5	19.99	5.45	16.77	6.11	13.42	5.29	12.26	4.49
	0.0	20.96	5.60	17.58	6.21	14.07	4.78	12.85	4.04
	2.5	21.73	5.08	18.23	5.64	14.59	4.27	13.33	3.69
	5.0	23.58	4.56	19.78	5.07	15.82	3.77	14.46	3.35
	6.0	23.82	4.36	19.98	4.84	15.98	3.56	14.61	3.21
	7.5	23.82	4.17	19.98	4.63	15.98	3.52	14.61	3.16
	10.0	23.82	3.72	19.98	4.12	15.98	3.14	14.61	2.90
	12.5	23.82	3.49	19.98	3.88	15.98	2.98	14.61	2.69
	15.0	23.82	3.16	19.98	3.51	15.98	2.76	14.61	2.49
70	-20.0	10.29	2.78	8.63	3.10	6.91	3.66	6.31	3.91
	-17.5	11.08	2.99	9.30	3.36	7.44	3.90	6.80	4.16
	-15.0	11.87	3.20	9.96	3.63	7.97	4.15	7.28	4.40
	-12.5	12.67	3.40	10.63	3.86	8.50	4.42	7.77	4.71
	-10.0	13.46	3.60	11.29	4.09	9.03	4.69	8.25	5.02
	-7.5	15.15	4.01	12.71	4.60	10.17	5.19	9.29	4.83
	-5.0	16.43	4.43	13.78	5.04	11.03	5.14	10.08	4.42
	-2.5	17.48	4.84	14.67	5.42	11.73	4.69	10.72	3.98
	0.0	18.33	4.97	15.38	5.51	12.30	4.24	11.24	3.59
	2.5	19.01	4.51	15.95	5.00	12.76	3.79	11.66	3.28
	5.0	20.62	4.05	17.30	4.49	13.84	3.34	12.65	2.97
	6.0	20.83	3.87	17.48	4.29	13.98	3.16	12.78	2.84
	7.5	20.83	3.70	17.48	4.11	13.98	3.12	12.78	2.81
	10.0	20.83	3.30	17.48	3.66	13.98	2.79	12.78	2.57
	12.5	20.83	3.10	17.48	3.44	13.98	2.64	12.78	2.39
	15.0	20.83	2.80	17.48	3.11	13.98	2.45	12.78	2.21
60	-20.0	8.82	2.43	7.40	2.71	5.92	3.20	5.41	3.42
	-17.5	9.50	2.61	7.97	2.94	6.37	3.41	5.82	3.64
	-15.0	10.18	2.80	8.54	3.17	6.83	3.63	6.24	3.85
	-12.5	10.85	2.97	9.11	3.37	7.28	3.87	6.66	4.12
	-10.0	11.53	3.15	9.67	3.58	7.74	4.11	7.07	4.39
	-7.5	12.98	3.51	10.89	4.03	8.71	4.54	7.96	4.22
	-5.0	14.08	3.88	11.81	4.41	9.45	4.50	8.63	3.86
	-2.5	14.98	4.23	12.57	4.74	10.05	4.10	9.19	3.48
	0.0	15.71	4.34	13.18	4.82	10.54	3.71	9.63	3.14
	2.5	16.29	3.94	13.67	4.38	10.93	3.32	9.99	2.87
	5.0	17.67	3.54	14.83	3.93	11.86	2.92	10.84	2.60
	6.0	17.85	3.38	14.98	3.75	11.98	2.77	10.95	2.49
	7.5	17.85	3.24	14.98	3.59	11.98	2.73	10.95	2.45
	10.0	17.85	2.88	14.98	3.20	11.98	2.44	10.95	2.25
	12.5	17.85	2.71	14.98	3.01	11.98	2.31	10.95	2.09
	15.0	17.85	2.45	14.98	2.72	11.98	2.14	10.95	1.93
50	-20.0	7.35	2.08	6.16	2.32	4.93	2.74	4.51	2.93
	-17.5	7.91	2.24	6.64	2.52	5.31	2.92	4.85	3.11
	-15.0	8.48	2.39	7.11	2.71	5.69	3.11	5.20	3.29
	-12.5	9.04	2.54	7.59	2.89	6.07	3.31	5.55	3.53
	-10.0	9.61	2.70	8.06	3.06	6.45	3.51	5.89	3.76
	-7.5	10.82	3.00	9.08	3.44	7.26	3.88	6.64	3.61
	-5.0	11.73	3.32	9.84	3.77	7.87	3.85	7.19	3.31
	-2.5	12.48	3.62	10.47	4.05	8.38	3.51	7.66	2.98
	0.0	13.09	3.72	10.98	4.13	8.79	3.17	8.03	2.68
	2.5	13.57	3.37	11.39	3.74	9.11	2.84	8.32	2.45
	5.0	14.73	3.03	12.35	3.36	9.88	2.50	9.03	2.22
	6.0	14.88	2.89	12.48	3.21	9.98	2.37	9.12	2.13
	7.5	14.88	2.77	12.48	3.07	9.98	2.34	9.12	2.10
	10.0	14.88	2.47	12.48	2.74	9.98	2.09	9.12	1.92
	12.5	14.88	2.32	12.48	2.57	9.98	1.98	9.12	1.79
	15.0	14.88	2.10	12.48	2.33	9.98	1.83	9.12	1.65

* Corrections for piping length are not taken into account. Please contact the sales company for questions. kcal/h = kW x 860, BTU/h = kW x 3,412

8. CAPACITY TABLES

S-Series

PUMY-P-YKM3, PUMY-CP-YKM2

PUMY-P225YKM3-PA,DA(-BS)				TC: Total Capacity (kW), PI: Power Input (kW)					
Combination (%)	Outdoor air temp.	Indoor air temp.							
		15°C D.B.		20°C D.B.		25°C D.B.		27°C D.B.	
	°C D.B.	TC	PI	TC	PI	TC	PI	TC	PI
130	-20.0	16.51	4.52	13.85	5.04	11.08	5.94	10.12	6.36
	-17.5	17.78	4.86	14.91	5.47	11.93	6.34	10.90	6.76
	-15.0	19.05	5.19	15.98	5.89	12.78	6.75	11.68	7.15
	-12.5	20.32	5.53	17.04	6.27	13.64	7.19	12.46	7.66
	-10.0	21.59	5.86	18.11	6.64	14.49	7.63	13.24	8.16
	-7.5	24.31	6.52	20.39	7.48	16.31	8.43	14.91	7.84
	-5.0	26.35	7.21	22.11	8.19	17.69	8.35	16.16	7.18
	-2.5	28.05	7.86	23.53	8.80	18.82	7.62	17.20	6.47
	0.0	29.41	8.07	24.67	8.96	19.74	6.89	18.03	5.83
	2.5	30.49	7.33	25.58	8.13	20.46	6.16	18.70	5.33
	5.0	33.08	6.58	27.75	7.30	22.20	5.43	20.29	4.82
	6.0	33.42	6.28	28.03	6.97	22.43	5.14	20.49	4.62
	7.5	33.42	6.01	28.03	6.68	22.43	5.08	20.49	4.56
	10.0	33.42	5.36	28.03	5.95	22.43	4.53	20.49	4.18
	12.5	33.42	5.03	28.03	5.59	22.43	4.30	20.49	3.88
	15.0	33.42	4.55	28.03	5.06	22.43	3.97	20.49	3.59
120	-20.0	16.36	4.48	13.73	5.00	10.98	5.89	10.04	6.30
	-17.5	17.62	4.81	14.78	5.42	11.83	6.29	10.81	6.70
	-15.0	18.88	5.15	15.84	5.84	12.67	6.69	11.58	7.09
	-12.5	20.14	5.48	16.90	6.21	13.52	7.13	12.35	7.59
	-10.0	21.40	5.81	17.95	6.59	14.36	7.56	13.12	8.10
	-7.5	24.09	6.46	20.21	7.42	16.17	8.36	14.78	7.78
	-5.0	26.12	7.15	21.92	8.12	17.53	8.28	16.02	7.12
	-2.5	27.80	7.80	23.32	8.73	18.66	7.56	17.05	6.42
	0.0	29.15	8.00	24.45	8.88	19.56	6.83	17.88	5.78
	2.5	30.23	7.26	25.36	8.06	20.29	6.11	18.54	5.28
	5.0	32.79	6.52	27.51	7.24	22.01	5.38	20.11	4.78
	6.0	33.12	6.23	27.79	6.91	22.23	5.09	20.31	4.58
	7.5	33.12	5.96	27.79	6.62	22.23	5.03	20.31	4.52
	10.0	33.12	5.31	27.79	5.90	22.23	4.49	20.31	4.14
	12.5	33.12	4.99	27.79	5.54	22.23	4.26	20.31	3.84
	15.0	33.12	4.52	27.79	5.01	22.23	3.94	20.31	3.56
110	-20.0	16.22	4.44	13.61	4.96	10.89	5.84	9.95	6.25
	-17.5	17.47	4.77	14.65	5.37	11.72	6.24	10.71	6.64
	-15.0	18.71	5.11	15.70	5.79	12.56	6.63	11.48	7.03
	-12.5	19.96	5.43	16.75	6.16	13.40	7.07	12.24	7.53
	-10.0	21.21	5.76	17.79	6.53	14.24	7.50	13.01	8.03
	-7.5	23.88	6.41	20.03	7.35	16.03	8.29	14.65	7.71
	-5.0	25.90	7.08	21.72	8.05	17.38	8.21	15.88	7.06
	-2.5	27.56	7.73	23.12	8.65	18.49	7.49	16.90	6.36
	0.0	28.89	7.93	24.24	8.81	19.39	6.77	17.72	5.73
	2.5	29.96	7.20	25.13	7.99	20.11	6.06	18.37	5.24
	5.0	32.50	6.47	27.27	7.18	21.82	5.34	19.93	4.74
	6.0	32.83	6.18	27.54	6.85	22.04	5.05	20.14	4.54
	7.5	32.83	5.91	27.54	6.56	22.04	4.99	20.14	4.48
	10.0	32.83	5.27	27.54	5.85	22.04	4.45	20.14	4.11
	12.5	32.83	4.95	27.54	5.49	22.04	4.22	20.14	3.81
	15.0	32.83	4.48	27.54	4.97	22.04	3.91	20.14	3.53
100	-20.0	16.08	4.41	13.49	4.92	10.79	5.79	9.86	6.20
	-17.5	17.31	4.74	14.52	5.33	11.62	6.19	10.62	6.59
	-15.0	18.55	5.07	15.56	5.75	12.45	6.58	11.38	6.98
	-12.5	19.79	5.39	16.60	6.11	13.28	7.01	12.13	7.47
	-10.0	21.02	5.71	17.64	6.48	14.11	7.44	12.89	7.96
	-7.5	23.67	6.36	19.86	7.30	15.89	8.23	14.52	7.65
	-5.0	25.67	7.03	21.53	7.98	17.22	8.15	15.74	7.00
	-2.5	27.31	7.67	22.91	8.59	18.33	7.43	16.75	6.31
	0.0	28.64	7.87	24.02	8.74	19.22	6.72	17.56	5.68
	2.5	29.69	7.15	24.91	7.93	19.93	6.01	18.21	5.19
	5.0	32.22	6.42	27.03	7.12	21.62	5.30	19.76	4.70
	6.0	32.54	6.13	27.30	6.80	21.84	5.01	19.96	4.51
	7.5	32.54	5.87	27.30	6.51	21.84	4.95	19.96	4.45
	10.0	32.54	5.23	27.30	5.80	21.84	4.42	19.96	4.07
	12.5	32.54	4.91	27.30	5.45	21.84	4.19	19.96	3.78
	15.0	32.54	4.44	27.30	4.93	21.84	3.88	19.96	3.50
90	-20.0	14.46	3.97	12.13	4.43	9.71	5.22	8.87	5.59
	-17.5	15.57	4.27	13.06	4.81	10.45	5.58	9.55	5.94
	-15.0	16.69	4.57	14.00	5.18	11.20	5.93	10.23	6.29
	-12.5	17.80	4.86	14.93	5.51	11.94	6.32	10.91	6.73
	-10.0	18.91	5.15	15.86	5.84	12.69	6.71	11.60	7.18
	-7.5	21.29	5.73	17.86	6.58	14.29	7.41	13.06	6.89
	-5.0	23.09	6.33	19.37	7.20	15.49	7.34	14.16	6.31
	-2.5	24.57	6.91	20.61	7.74	16.49	6.70	15.07	5.69
	0.0	25.76	7.10	21.61	7.88	17.29	6.06	15.80	5.12
	2.5	26.71	6.44	22.41	7.15	17.93	5.42	16.38	4.68
	5.0	28.98	5.78	24.31	6.42	19.45	4.77	17.77	4.24
	6.0	29.27	5.52	24.56	6.13	19.65	4.52	17.95	4.06
	7.5	29.27	5.29	24.56	5.87	19.65	4.46	17.95	4.01
	10.0	29.27	4.71	24.56	5.23	19.65	3.98	17.95	3.67
	12.5	29.27	4.43	24.56	4.91	19.65	3.78	17.95	3.41
	15.0	29.27	4.00	24.56	4.44	19.65	3.49	17.95	3.16

* Corrections for piping length are not taken into account. Please contact the sales company for questions. kcal/h = kW x 860, BTU/h = kW x 3,412

8. CAPACITY TABLES

S-Series

PUMY-P-YKM3, PUMY-CP-YKM2

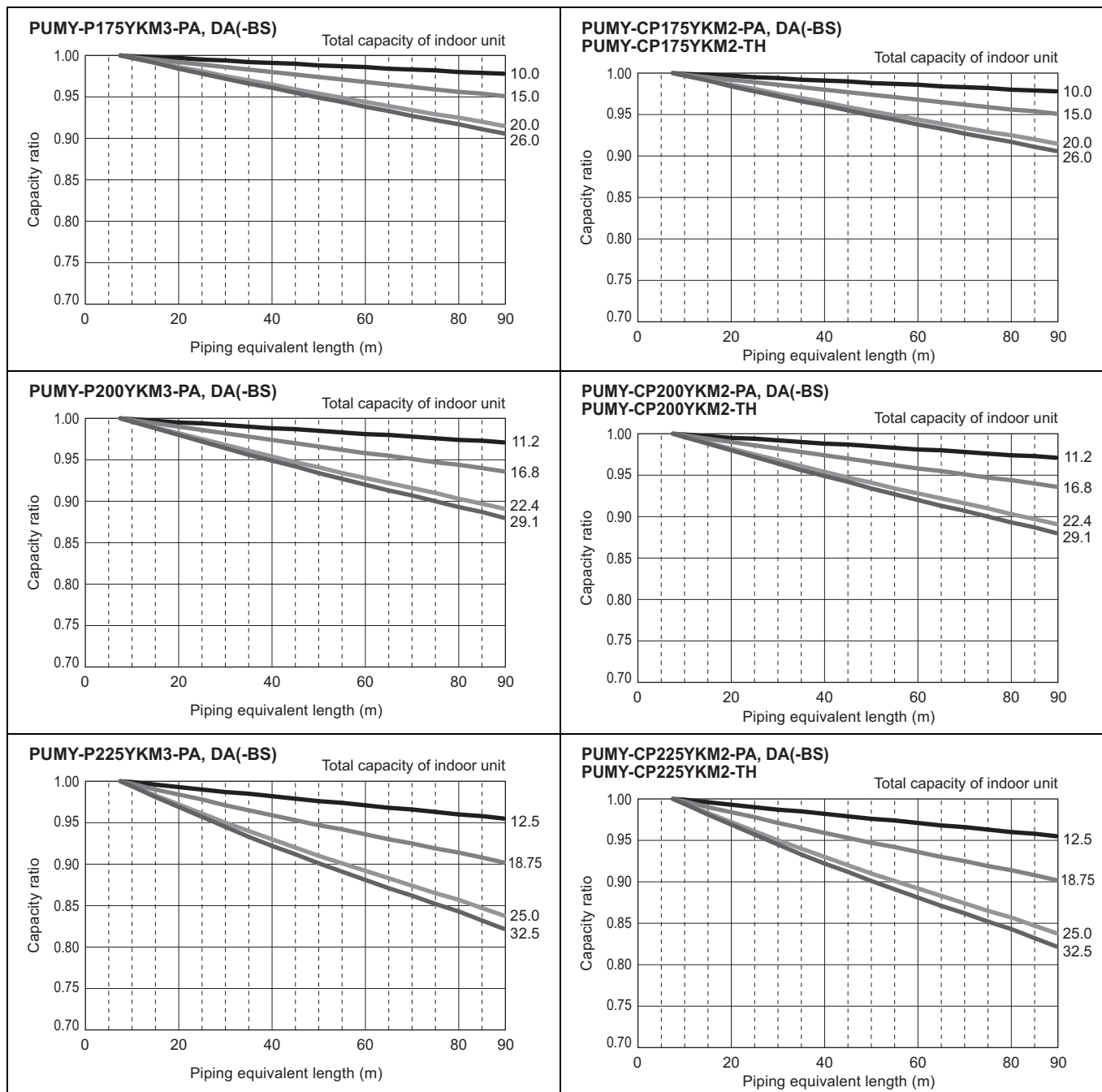
PUMY-P225YKM3-PA,DA(-BS)									
TC: Total Capacity (kW), PI: Power Input (kW)									
Combination (%)	Outdoor air temp. °C D.B.	Indoor air temp.							
		15°C D.B.		20°C D.B.		25°C D.B.		27°C D.B.	
		TC	PI	TC	PI	TC	PI	TC	PI
80	-20.0	12.85	3.56	10.78	3.97	8.62	4.68	7.88	5.01
	-17.5	13.84	3.82	11.61	4.30	9.29	5.00	8.49	5.32
	-15.0	14.82	4.09	12.44	4.64	9.95	5.31	9.09	5.63
	-12.5	15.81	4.35	13.27	4.94	10.61	5.66	9.70	6.03
	-10.0	16.80	4.61	14.09	5.23	11.28	6.01	10.30	6.43
	-7.5	18.92	5.13	15.87	5.89	12.70	6.64	11.60	6.17
	-5.0	20.51	5.67	17.21	6.45	13.77	6.58	12.58	5.65
	-2.5	21.83	6.19	18.31	6.93	14.65	6.00	13.39	5.10
	0.0	22.89	6.36	19.20	7.05	15.36	5.43	14.04	4.59
	2.5	23.73	5.77	19.91	6.40	15.93	4.85	14.55	4.19
	5.0	25.75	5.18	21.60	5.75	17.28	4.28	15.79	3.80
	6.0	26.01	4.95	21.82	5.49	17.45	4.05	15.95	3.64
	7.5	26.01	4.74	21.82	5.26	17.45	4.00	15.95	3.59
	10.0	26.01	4.22	21.82	4.68	17.45	3.57	15.95	3.29
	12.5	26.01	3.96	21.82	4.40	17.45	3.38	15.95	3.05
	15.0	26.01	3.59	21.82	3.98	17.45	3.13	15.95	2.83
70	-20.0	11.24	3.16	9.43	3.52	7.54	4.15	6.89	4.44
	-17.5	12.10	3.39	10.15	3.82	8.12	4.43	7.42	4.72
	-15.0	12.97	3.63	10.88	4.12	8.70	4.71	7.95	5.00
	-12.5	13.83	3.86	11.60	4.38	9.28	5.02	8.48	5.35
	-10.0	14.70	4.09	12.33	4.64	9.86	5.33	9.01	5.70
	-7.5	16.55	4.55	13.88	5.23	11.10	5.89	10.15	5.48
	-5.0	17.94	5.03	15.05	5.72	12.04	5.84	11.00	5.02
	-2.5	19.09	5.49	16.02	6.15	12.81	5.33	11.71	4.52
	0.0	20.02	5.64	16.79	6.26	13.44	4.81	12.28	4.07
	2.5	20.76	5.12	17.41	5.68	13.93	4.30	12.73	3.72
	5.0	22.52	4.60	18.89	5.10	15.11	3.79	13.81	3.37
	6.0	22.75	4.39	19.08	4.87	15.27	3.59	13.95	3.23
	7.5	22.75	4.20	19.08	4.66	15.27	3.55	13.95	3.19
	10.0	22.75	3.74	19.08	4.15	15.27	3.17	13.95	2.92
	12.5	22.75	3.52	19.08	3.90	15.27	3.00	13.95	2.71
	15.0	22.75	3.18	19.08	3.53	15.27	2.78	13.95	2.51
60	-20.0	9.63	2.76	8.08	3.08	6.46	3.63	5.91	3.89
	-17.5	10.37	2.97	8.70	3.34	6.96	3.88	6.36	4.13
	-15.0	11.11	3.17	9.32	3.60	7.46	4.12	6.81	4.37
	-12.5	11.85	3.38	9.94	3.83	7.95	4.39	7.27	4.68
	-10.0	12.59	3.58	10.56	4.06	8.45	4.66	7.72	4.99
	-7.5	14.18	3.98	11.89	4.57	9.52	5.15	8.69	4.79
	-5.0	15.37	4.40	12.90	5.00	10.32	5.10	9.43	4.39
	-2.5	16.36	4.80	13.72	5.38	10.98	4.66	10.03	3.95
	0.0	17.15	4.93	14.39	5.47	11.51	4.21	10.52	3.56
	2.5	17.79	4.48	14.92	4.97	11.94	3.76	10.91	3.25
	5.0	19.30	4.02	16.19	4.46	12.95	3.32	11.83	2.95
	6.0	19.49	3.84	16.35	4.26	13.08	3.14	11.95	2.82
	7.5	19.49	3.67	16.35	4.08	13.08	3.10	11.95	2.79
	10.0	19.49	3.27	16.35	3.63	13.08	2.77	11.95	2.55
	12.5	19.49	3.08	16.35	3.41	13.08	2.63	11.95	2.37
	15.0	19.49	2.78	16.35	3.09	13.08	2.43	11.95	2.19
50	-20.0	8.02	2.36	6.73	2.63	5.39	3.11	4.92	3.32
	-17.5	8.64	2.54	7.25	2.86	5.80	3.32	5.30	3.53
	-15.0	9.26	2.72	7.77	3.08	6.21	3.53	5.68	3.74
	-12.5	9.88	2.89	8.29	3.28	6.63	3.76	6.06	4.00
	-10.0	10.49	3.06	8.80	3.47	7.04	3.99	6.44	4.27
	-7.5	11.81	3.41	9.91	3.91	7.93	4.41	7.25	4.10
	-5.0	12.81	3.77	10.75	4.28	8.60	4.37	7.86	3.75
	-2.5	13.63	4.11	11.44	4.60	9.15	3.98	8.36	3.38
	0.0	14.29	4.22	11.99	4.68	9.59	3.60	8.77	3.05
	2.5	14.82	3.83	12.43	4.25	9.95	3.22	9.09	2.78
	5.0	16.08	3.44	13.49	3.82	10.79	2.84	9.86	2.52
	6.0	16.24	3.28	13.63	3.64	10.90	2.69	9.96	2.42
	7.5	16.24	3.14	13.63	3.49	10.90	2.65	9.96	2.38
	10.0	16.24	2.80	13.63	3.11	10.90	2.37	9.96	2.18
	12.5	16.24	2.63	13.63	2.92	10.90	2.25	9.96	2.03
	15.0	16.24	2.38	13.63	2.64	10.90	2.08	9.96	1.88

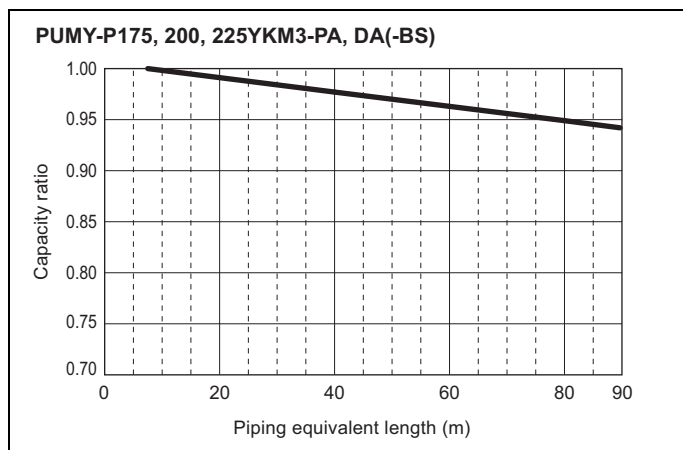
* Corrections for piping length are not taken into account. Please contact the sales company for questions. kcal/h = kW x 860, BTU/h = kW x 3,412

8-2. Correction by refrigerant piping length

CITY MULTI systems can have extended piping lengths if certain limitations are followed, but cooling/heating capacity could be reduced. Using following correction factor by equivalent piping length shown at 8-2-1 and 8-2-2, capacity can be found. 8-2-3 shows how to obtain the equivalent piping length.

8-2-1. Cooling capacity correction



8-2-2. Heating capacity correction**8-2-3. How to obtain the equivalent piping length**

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

8-3. Correction at frost and defrost

PUMY-SP100, 125, 140V(Y)KM2

Due to frost 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 intake temperature (W.B.°C)	6	4	2	0	-2	-4	-6	-8	-10	-15	-20
Correction factor	1.0	0.98	0.89	0.88	0.89	0.90	0.95	0.95	0.95	0.95	0.95

9-1. JOINT

CMY-Y62-G-E

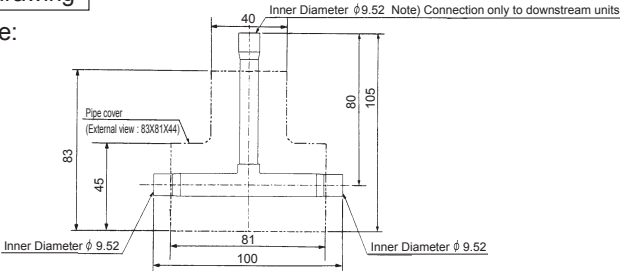
Unit: mm

1. Specification

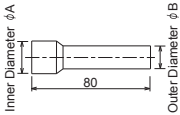
Items	Details
Main	Number of ports
	2 ports
	Number of branch joints
Accessory	One for each liquid and gas pipe
	Pipe material
	Phosphorus deoxidized copper C1220T-OL (JIS H3300)
Insulation material	Foamed polyethylene (one for each liquid and gas pipe)
	Reducer
	10 reducers of 7 types (Refer to the external drawing for details.)

2. External drawing

For liquid pipe:

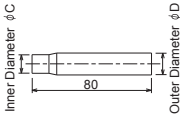
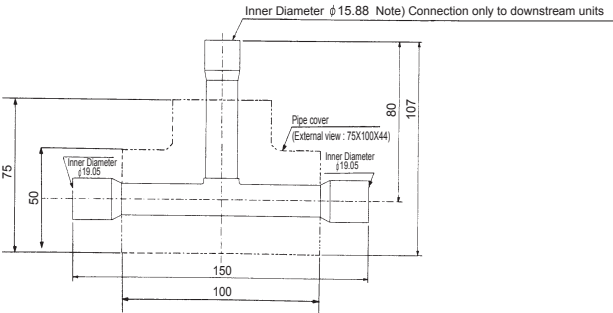


Reducer (Accessory):



A (Inner Diameter)	B (Outer Diameter)	Number of reducers
φ 12.7	φ 9.52	2
φ 19.05	φ 15.88	1
φ 22.22	φ 19.05	1

For gas pipe:



C (Inner Diameter)	D (Outer Diameter)	Number of reducers
φ 6.35	φ 9.52	2
φ 12.7	φ 15.88	1
φ 12.7	φ 19.05	1
φ 15.88	φ 19.05	2

9-2. HEADER

CMY-Y64-G-E

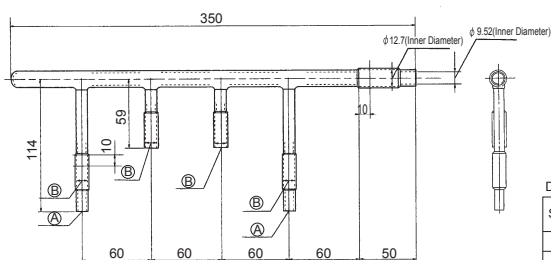
Unit: mm

1. Specification

Items		Details
Main	Number of ports	3 ~ 4 ports
	Number of branch joints	One for each liquid and gas pipe
	Pipe material	Phosphorus deoxidized copper C1220T-OL (JIS H3300)
Accessory	Insulation material	Foamed polyethylene
	Reducer	7 reducers of 5 types
	Cap	2 caps of 2 different types for each liquid and gas pipe 4 caps in total

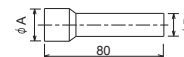
2. External drawing

For liquid pipe:



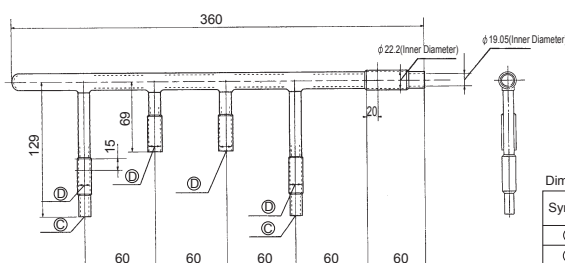
Dimension table	
Symbol	Inner Diameter (mm)
(A)	φ 6.35
(B)	φ 9.52

Reducer (Accessory):

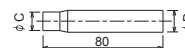


A (Inner Diameter)	B (Outer Diameter)	Number of reducers
φ 19.05	φ 15.88	1
φ 15.88	φ 12.7	2
φ 9.52	φ 6.35	2

For gas pipe:



Dimension table	
Symbol	Inner Diameter (mm)
(C)	φ 12.7
(D)	φ 15.88



C (Inner Diameter)	D (Outer Diameter)	Number of reducers
φ 15.88	φ 19.05	1
φ 9.52	φ 12.7	1

CMY-Y68-G-E

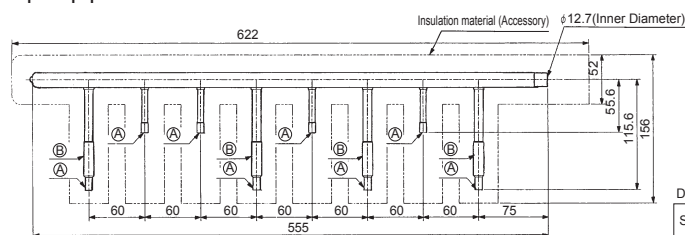
Unit: mm

1. Specification

Items		Details
Main	Number of ports	5 ~ 8 ports
	Number of branch joints	One for each liquid and gas pipe
	Pipe material	Phosphorus deoxidized copper C1220T-OL (JIS H3300)
Accessory	Insulation material	Foamed polyethylene
	Reducer	3 reducers of 3 types
	Cap	3 caps for each liquid and gas pipe 6 in total

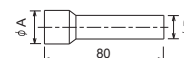
2. External drawing

For liquid pipe:



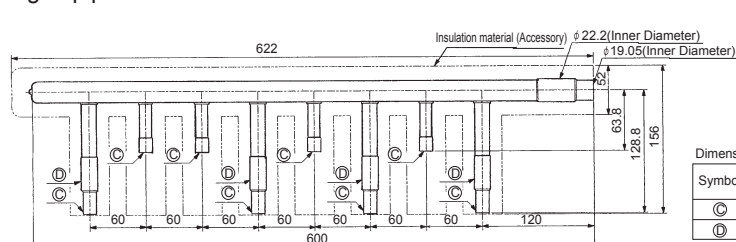
Dimension table	
Symbol	Inner Diameter (mm)
(A)	φ 6.35
(B)	φ 9.52

Reducer (Accessory):

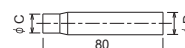


A (Inner Diameter)	B (Outer Diameter)	Number of reducers
φ 19.05	φ 15.88	1
φ 12.7	φ 9.52	1

For gas pipe:



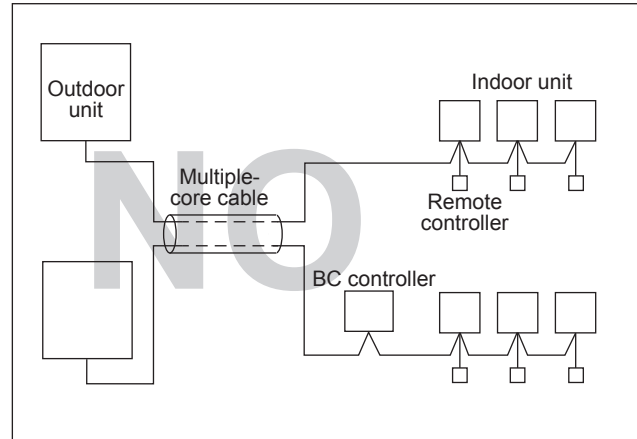
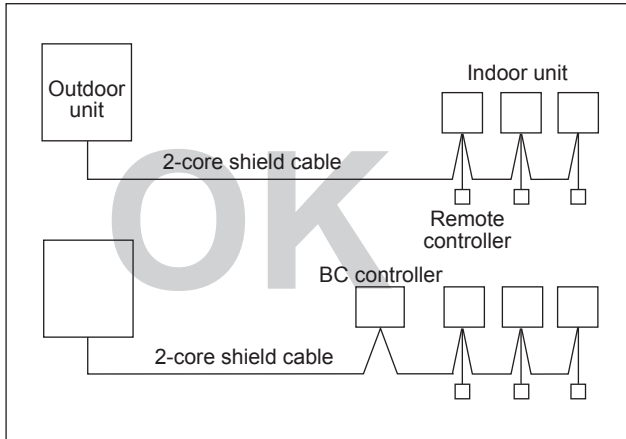
Dimension table	
Symbol	Inner Diameter (mm)
(C)	φ 12.7
(D)	φ 15.88



C (Inner Diameter)	D (Outer Diameter)	Number of reducers
φ 15.88	φ 19.05	1

10-1. General cautions

- ① Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations, and guidance of each electric power company.
- ② Wiring for control (hereinafter referred to as transmission cable) shall be (50mm[1-5/8in.] or more) apart from power source wiring so that it is not influenced by electric noise from power source wiring. (Do not insert transmission cable and power source wire in the same conduit.)
- ③ Be sure to provide designated grounding work to outdoor unit.
- ④ Give some allowance to wiring for electrical part box of indoor and outdoor units, because the box is sometimes removed at the time of service work.
- ⑤ Never connect 380~415V(220~240V) power source to terminal block of transmission cable. If connected, electrical parts will be damaged.
- ⑥ Use 2-core shield cable for transmission cable. If transmission cables of different systems are wired with the same multiple-core cable, the resultant poor transmitting and receiving will cause erroneous operations.
- ⑦ When extending the transmission line, make sure to extend the shield cable as well.



10-2. Power supply for Outdoor unit

10-2-1. Electrical characteristics of Outdoor unit at cooling mode

Symbols: MCA (Max Circuit Amps = 1.25 x Temperature correction x RLA)
 RLA (Rated Load Amps), SC (Starting Current)

PUMY-P-YKM3	Units			Power supply	Compressor		FAN	RLA (A)
	Hz	Volts	Voltage range	MCA (A)	Output (kW)	SC (A)	Output (kW)	
PUMY-P175YKM3-PA,DA(-BS)	50	380	Max.: 457V Min.: 342V	19	3.6	7	0.20 × 2	8.94/8.50/8.19
PUMY-P200YKM3-PA,DA(-BS)		400			3.9			10.03/9.53/9.18
PUMY-P225YKM3-PA,DA(-BS)		415			4.4			11.17/10.61/10.23

PUMY-P-YKM3	Units			Power supply	Compressor		FAN	RLA (A)
	Hz	Volts	Voltage range	MCA (A)	Output (kW)	SC (A)	Output (kW)	
PUMY-P175YKM3-PA,DA(-BS)	60	380	Max.: 418V Min.: 342V	19	3.6	7	0.20 × 2	8.94
PUMY-P200YKM3-PA,DA(-BS)					3.9			10.03
PUMY-P225YKM3-PA,DA(-BS)					4.4			11.17

PUMY-CP-YKM2	Units			Power supply	Compressor		FAN	RLA (A)
	Hz	Volts	Voltage range	MCA (A)	Output (kW)	SC (A)	Output (kW)	
PUMY-CP175YKM2-PA,DA(-BS) PUMY-CP175YKM2-TH	50	380	Max.: 457V Min.: 342V	19	3.5	7	0.20 × 2	8.94/8.50/8.19
PUMY-CP200YKM2-PA,DA(-BS) PUMY-CP200YKM2-TH		400			3.9			10.03/9.53/9.18
PUMY-CP225YKM2-PA,DA(-BS) PUMY-CP225YKM2-TH		415			4.3			11.17/10.61/10.23

PUMY-CP-YKM2	Units			Power supply	Compressor		FAN	RLA (A)
	Hz	Volts	Voltage range	MCA (A)	Output (kW)	SC (A)	Output (kW)	
PUMY-CP175YKM2-PA,DA(-BS) PUMY-CP175YKM2-TH	60	380	Max.: 418V Min.: 342V	19	3.5	7	0.20 × 2	8.94
PUMY-CP200YKM2-PA,DA(-BS) PUMY-CP200YKM2-TH					3.9			10.03
PUMY-CP225YKM2-PA,DA(-BS) PUMY-CP225YKM2-TH					4.3			11.17

10-3. Power cable specifications

PUMY-P175, 200, 225YKM3-PA, DA(-BS)

<Outdoor unit> *When power is supplied to outdoor unit and branch box separately

Model	Power Supply	Minimum Wire Cross-sectional area (mm ²)		Breaker for Wiring *1	Breaker for Current Leakage
		Main Cable	Ground		
Outdoor unit	3N~380-400-415 V, 50 Hz 3N~380 V, 60 Hz *2	2.5	2.5	25 A	25 A 30 mA 0.1 s or less

<Outdoor unit> *When power is supplied to outdoor unit and branch box separately

Model	Power Supply	Minimum Wire Cross-sectional area (mm ²)		Breaker for Wiring *1	Breaker for Current Leakage
		Main Cable	Ground		
Outdoor unit	3N~380-400-415 V, 50 Hz 3N~380 V, 60 Hz *2	4.0	4.0	32 A	32 A 30 mA 0.1 s or less

*1 A breaker with at least 3.0 mm contact separation in each poles shall be provided. Use non-fuse breaker (NF) or earth leakage breaker (NV).

*2 In multi-phase appliances, the colour of the neutral conductor of the supply cord, if any, shall be blue.

<Indoor units> *When power is supplied to indoor unit and outdoor unit separately

Total operating current of the indoor unit	Minimum wire thickness (mm ²)			Ground-fault interrupter *1	Local switch (A)		Breaker for wiring (NFB)
	Main Cable	Branch	Ground		Capacity	Fuse	
F0 = 16A or less *2	1.5	1.5	1.5	20 A current sensitivity *3	16	16	20
F0 = 25A or less *2	2.5	2.5	2.5	30 A current sensitivity *3	25	25	30
F0 = 32A or less *2	4.0	4.0	4.0	40 A current sensitivity *3	32	32	40

Apply to IEC61000-3-3 about max. permissive system impedance.

*1 The Ground-fault interrupter should support inverter circuit.

The Ground-fault interrupter should combine using of local switch or wiring breaker.

*2 Please take the larger of F1 or F2 as the value for F0.

F1 = Total operating maximum current of the indoor units × 1.2

F2 = {V1 × (Quantity of Type1)/C} + {V1 × (Quantity of Type2)/C} + {V1 × (Quantity of Type3)/C} + ... + {V1 × (Quantity of Type13)/C}

Connect to Branch box (PAC-MK-BC)

Indoor unit		V1	V2
Type 1	SEZ-KD·VA(L), SEZ-M·DA(L)	19.8	2.4
Type 2	MSXZ-MP·VA-DA1	9.9	
Type 3	MSZ-GE·VA-E1, MSXZ-FP·VA-DA1	6.8	
Type 4	Branch box (PAC-MK-BC)	5.1	3

Connect to Connection kit (PAC-LV11M)

Indoor unit		V1	V2
Type 5	MSZ-GE·VA-E1	7.4	2.4
Type 6	Connection kit (PAC-LV11M)	3.5	

Connect to City Multi

Indoor unit		V1	V2
Type 7	PEFY-P·VMA(L)-E, PEFY-P·VMA(L)-E2, PEFY-P·VMA(L)-E3	38	1.6
Type 8	PEFY-P40-140VMHS-E	26.8	
Type 9	PMFY-P·VBM-E, PLFY-P·VFM-E, PEFY-P·VMS1(L)-E, PCFY-P·VKM-E, PKFY-P·VKM-E, PKFY-P·VLM-E(DA), PFFY-P·VKM-E2, PFFY-P·VLRMM-E, PFFY-P·VCM-E	19.8	2.4
Type 10	PLFY-P·VEM-PA/DA, PMFY-P·VFM-PA/DA	17.1	
Type 11	PEFY-P·VMA(L)-E4, PEFY-P·VMA4-E	18.6	3
Type 12	PEFY-P250VMHS-E, PEFY-P·VMHS-E-F	13.8	4.8
Type 13	PLFY-P·VLMD-E, PEFY-P·VMR-E-L/R, PFFY-P·VLRM-E, PFFY-P·VLEM-E, GUF-RD(H)4	0	0

C : Multiple of tripping current at tripping time 0.01s

Please pick up "C" from the tripping characteristic of the breaker.

<Example of "F2" calculation>

*Condition PEFY-P·VMS1-E × 4 + PEFY-P·VMA-E × 1, C = 8 (refer to right sample chart)

F2 = 19.8 × 4/8 + 38 × 1/8

= 14.65

*3 Current sensitivity is calculated using the following formula.

G1 = V2 × (Quantity of Type 1) + V2 × (Quantity of Type 2) + ... + V2 × (Quantity of Type 13) + V3 × (Wire length [km])

1. Bear in mind ambient conditions (ambient temperature, direct sunlight, rain water, etc.) when proceeding with the wiring and connections.

2. The wire size is the minimum value for metal conduit wiring. The power cord size should be 1 rank thicker consideration of voltage drops.

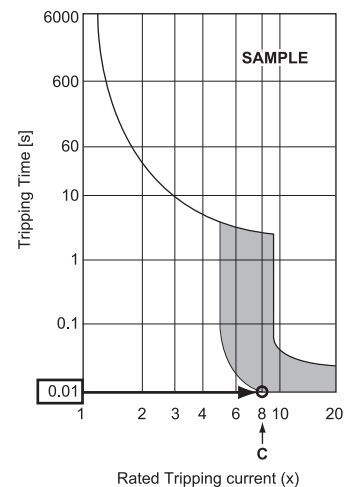
Make sure the power-supply voltage does not drop more than 10%.

3. Specific wiring requirements should adhere to the wiring regulations of the region.

4. Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (design 60245 IEC57). For example, use wiring such as YZW.

5. Install an earth line longer than power cables.

Sample chart



G1	Current sensitivity
30 or less	30 mA 0.1 sec or less
100 or less	100 mA 0.1 sec or less

Wire thickness	V3
1.5 mm ²	48
2.5 mm ²	56
4.0 mm ²	66

PUMY-CP175, 200, 225YKM2-PA, DA(-BS)

PUMY-CP175, 200, 225YKM2-TH

<Outdoor unit> *When power is supplied to outdoor unit and branch box separately

Model	Power Supply	Minimum Wire Cross-sectional area (mm ²)		Breaker for Wiring *1	Breaker for Current Leakage
		Main Cable	Ground		
Outdoor unit	3N~380-400-415 V, 50 Hz 3N~380 V, 60 Hz *2	2.5	2.5	25 A	25 A 30 mA 0.1 s or less

<Outdoor unit> *When power is supplied to outdoor unit and branch box separately

Model	Power Supply	Minimum Wire Cross-sectional area (mm ²)		Breaker for Wiring *1	Breaker for Current Leakage
		Main Cable	Ground		
Outdoor unit	3N~380-400-415 V, 50 Hz 3N~380 V, 60 Hz *2	4.0	4.0	32 A	32 A 30 mA 0.1 s or less

*1 A breaker with at least 3.0 mm contact separation in each poles shall be provided. Use non-fuse breaker (NF) or earth leakage breaker (NV).

*2 In multi-phase appliances, the color of the neutral conductor of the supply cord, if any, shall be blue.

<Indoor units> *When power is supplied to indoor unit and outdoor unit separately

Total operating current of the indoor unit	Minimum wire thickness (mm ²)			Ground-fault interrupter *1	Local switch (A)		Breaker for wiring (NFB)
	Main Cable	Branch	Ground		Capacity	Fuse	
F0 = 16A or less *2	1.5	1.5	1.5	20 A current sensitivity *3	16	16	20
F0 = 25A or less *2	2.5	2.5	2.5	30 A current sensitivity *3	25	25	30
F0 = 32A or less *2	4.0	4.0	4.0	40 A current sensitivity *3	32	32	40

Apply to IEC61000-3-3 about max. permissive system impedance.

*1 The Ground-fault interrupter should support inverter circuit.

The Ground-fault interrupter should combine using of local switch or wiring breaker.

*2 Please take the larger of F1 or F2 as the value for F0.

F1 = Total operating maximum current of the indoor units × 1.2

F2 = {V1 × (Quantity of Type1)/C} + {V1 × (Quantity of Type2)/C} + {V1 × (Quantity of Type3)/C} + ... + {V1 × (Quantity of Type15)/C}

Connect to Branch box (PAC-MK-BC)

Indoor unit	V1	V2
Type 1 PEY-S-JA, PEY-SP-JA2	26.9	2.4
Type 1 SEZ-KD-VA(L), SEZ-M-DA(L)	19.8	
Type 2 MSXY-MP-VA-DA1, MSZ-LN-VF-NE1, MSXY-JS50/60/71-VF, MSXY-FN-VE	7.4	
Type 3 MSZ-GE-VE, MSXZ-FP-VA-DA1	6.8	
Type 4 MSXY-JS15/20/25/35-VF	6.1	
Type 5 MSZ-GC-NA-C1, MSZ-GC-NA-C2	4.3	3.0
Type 6 Branch box (PAC-MK-BC)	5.1	

Connect to Connection kit (PAC-LV11M)

Indoor unit	V1	V2
Type 7 MSZ-GE-VA	7.4	2.4
Type 8 Connection kit (PAC-LV11M)	3.5	

Connect to City Multi

Indoor unit	V1	V2
Type 9 PEFY-P-VMA(L)-E, PEFY-P-VMA(L)-E2, PEFY-P-VMA(L)-E3, PEFY-P-VMX(L)-E	38.0	1.6
Type 10 PEFY-P40-140VMHS-E, PEFY-P-VMH-E2	26.8	
Type 11 PMFY-P-VBM-E, PLFY-P-VBM-E, PLFY-P-VFM-E, PEFY-P-VMS1(L)-E, PCFY-P-VKM-E, PKFY-P-VKM-E, PKFY-P-VLM-E, PFFY-P-VKM-E2, PFFY-P-VLRMM-E, PFFY-P-VCM-E	19.8	2.4
Type 12 PLFY-EP-VEM-E, PLFY-P-VEM-PA/DA, PMFY-P-VFM-PA/DA	17.1	
Type 13 PEFY-P-VMA(L)-E4, PEFY-P-VMA4-E	18.6	3
Type 14 PEFY-P200/250VMHS-E, PEFY-P-VMHS-E-F	13.8	4.8
Type 15 PLFY-P-VLMD-E, PEFY-P-VMR-E-L/R, PFFY-P-VLRM-E, PFFY-P-VLEM-E, GUF-RD(H)4	0	0

C : Multiple of tripping current at tripping time 0.01s

Please pick up "C" from the tripping characteristic of the breaker.

<Example of "F2" calculation>

*Condition PEFY-P-VMS1-E × 4 + PEFY-VMA-E × 1, C = 8 (refer to right sample chart)

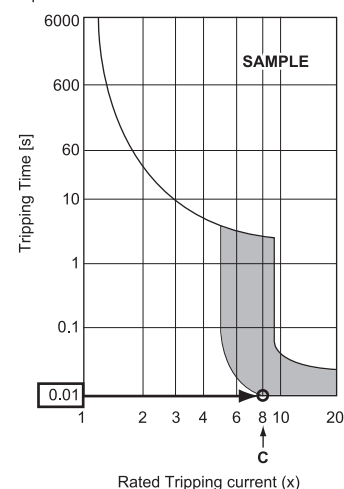
$$F2 = 19.8 \times 4/8 + 38 \times 1/8 \\ = 14.65$$

*3 Current sensitivity is calculated using the following formula.

$$G1 = V2 \times (\text{Quantity of Type 1}) + V2 \times (\text{Quantity of Type 2}) + \dots + V2 \times (\text{Quantity of Type 15}) + V3 \times (\text{Wire length [km]})$$

1. Bear in mind ambient conditions (ambient temperature, direct sunlight, rain water, etc.) when proceeding with the wiring and connections.
2. The wire size is the minimum value for metal conduit wiring. The power cord size should be 1 rank thicker consideration of voltage drops. Make sure the power-supply voltage does not drop more than 10%.
3. Specific wiring requirements should adhere to the wiring regulations of the region.
4. Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (design 60245 IEC57). For example, use wiring such as YZW.
5. Install an earth line longer than power cables.

Sample chart



G1	Current sensitivity
30 or less	30 mA 0.1 sec or less
100 or less	100 mA 0.1 sec or less

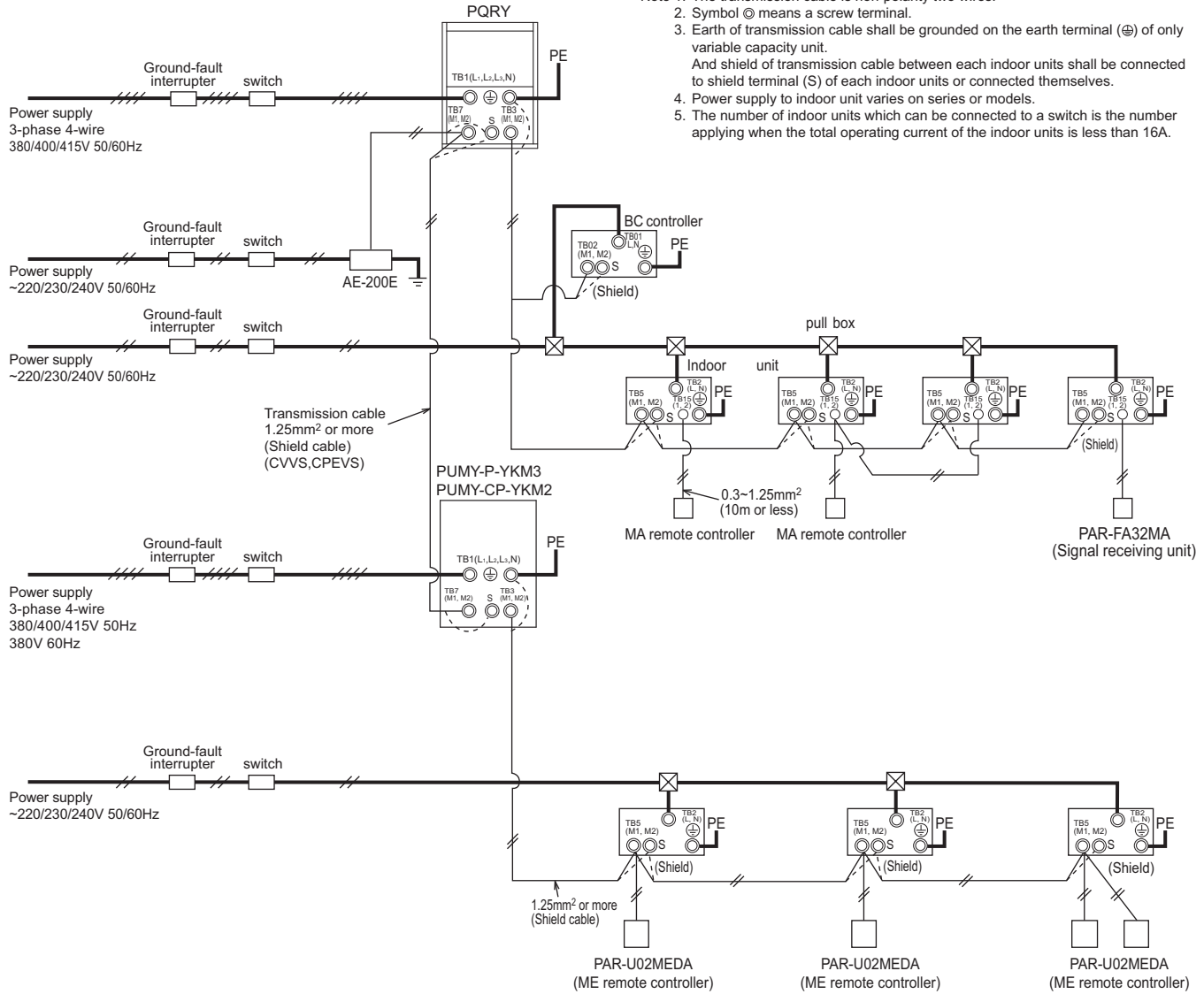
Wire thickness	V3
1.5 mm ²	48
2.5 mm ²	56
4.0 mm ²	66

10-4. Power supply examples

The local standards and/or regulations is applicable at a higher priority.

- 10-4-1. PUMY-P175, 200, 225YKM3-PA, DA(-BS)
 PUMY-CP175, 200, 225YKM2-PA, DA(-BS)
 PUMY-CP175, 200, 225YKM2-TH

- Note 1. The transmission cable is non-polarity two wires.
 2. Symbol ⊕ means a screw terminal.
 3. Earth of transmission cable shall be grounded on the earth terminal (⊕) of only variable capacity unit.
 And shield of transmission cable between each indoor units shall be connected to shield terminal (S) of each indoor units or connected themselves.
 4. Power supply to indoor unit varies on series or models.
 5. The number of indoor units which can be connected to a switch is the number applying when the total operating current of the indoor units is less than 16A.

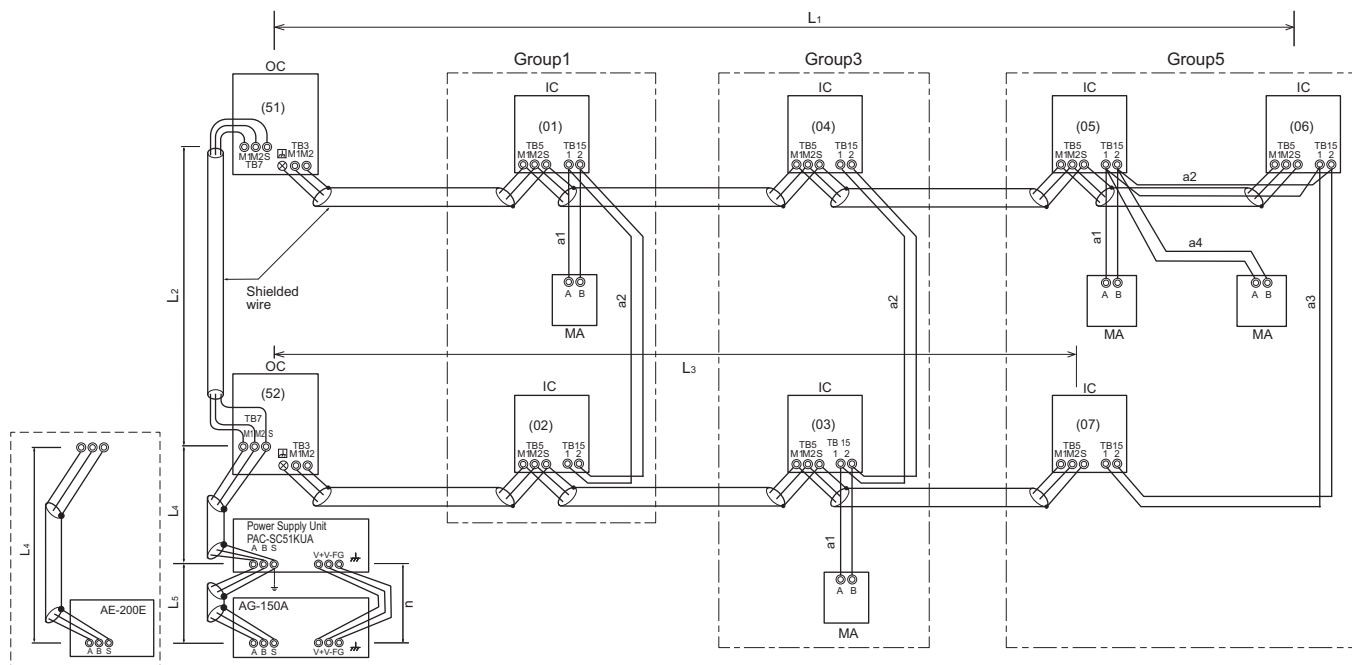


11-1. Transmission cable length limitation

11-1-1. Using MA Remote controller

Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission.

Max. length via Outdoor (M-NET cable)	$L1+L2+L3$, $L1+L2+L4+L5$, $L3+L4+L5$	$\leq 500\text{m}[1640\text{ft}]$	1.25mm^2 [AWG16] or thicker
Max. length to Outdoor (M-NET cable)	$L1$, $L3$, $L2+L4$, $L5$	$\leq 200\text{m}[656\text{ft}]$	1.25mm^2 [AWG16] or thicker
Max. length from MA to Indoor for each group	$a1+a2$, $a1+a2+a3+a4$	$\leq 200\text{m}[656\text{ft}]$	$0.3\text{-}1.25\text{mm}^2$ [AWG22-16]
24VDC to AG-150A	n	$\leq 50\text{m}[164\text{ft.}]$	$0.75\text{-}2.0\text{mm}^2$ [AWG18-14]



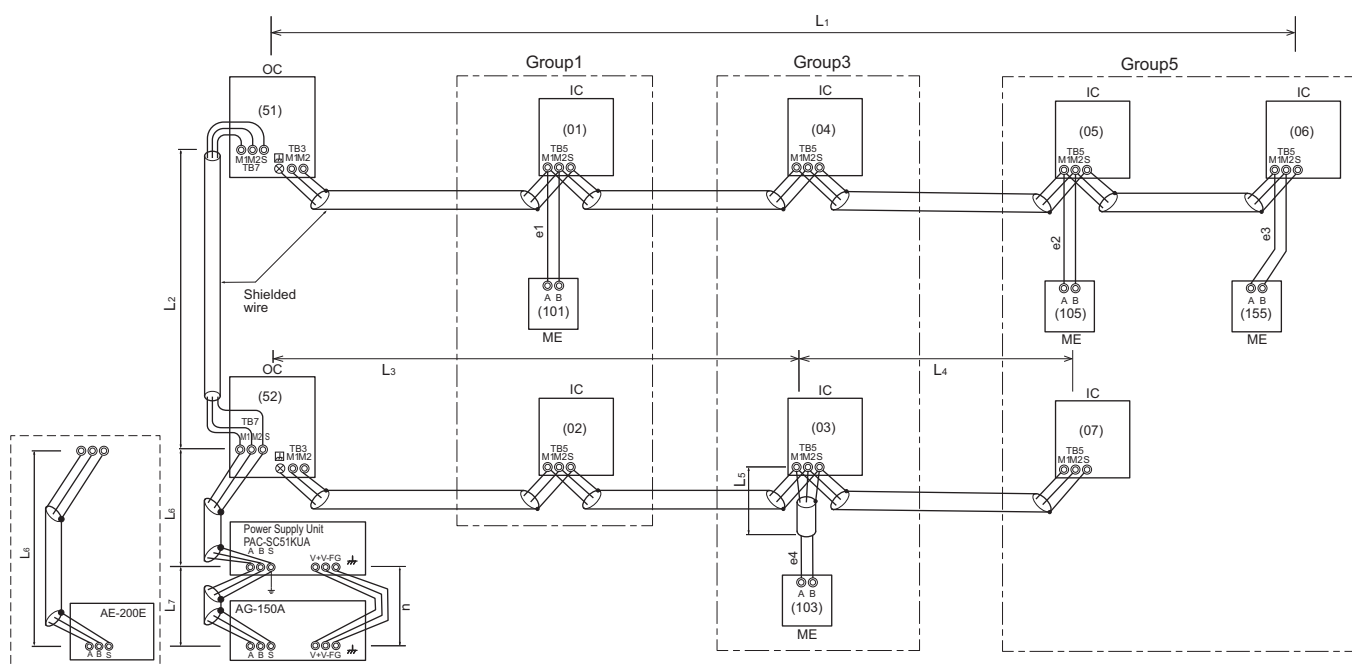
OC: Outdoor unit; IC: Indoor unit; MA: MA remote controller

11-1-2. Using ME Remote controller

Long transmission cable causes voltage down, therefore, the length limitation should be obeyed to secure proper transmission.

Max. length via Outdoor (M-NET cable)	$L1+L2+L3+L4$, $L1+L2+L6+L7$, $L1+L2+L3+L5$, $L3+L4+L6+L7$, $L3+L5+L6+L7$, $L4+L5$	$\leq 500\text{m}[1640\text{ft}]$	1.25mm^2 [AWG16] or thicker
Max. length to Outdoor (M-NET cable)	$L1$, $L3+L4$, $L2+L6$, $L7$, $L3+L5$	$\leq 200\text{m}[656\text{ft}]$	1.25mm^2 [AWG16] or thicker
Max. length from ME to Indoor	$e1$, $e2$, $e3$, $e4$	$\leq 10\text{m}[32\text{ft}] *1$	$0.3\text{-}1.25\text{mm}^2$ [AWG22-16] *1
24VDC to AG-150A	n	$\leq 50\text{m}[164\text{ft.}]$	$0.75\text{-}2.0\text{mm}^2$ [AWG18-14]

*1. If the length from ME to Indoor exceed 10m, use 1.25mm^2 [AWG16] shielded cable, but the total length should be counted into Max. length via Outdoor.



OC: Outdoor unit; IC: Indoor unit; ME: ME remote controller

11-2. Transmission cable specifications

	Transmission cables (Li)	ME Remote controller cables	MA Remote controller cables
Type of cable	Shielded cables (2-core) CVVS, CPEVS, and MVVS	Shielded cables (2-core) CVVS, CPEVS, and MVVS	VCTF, VCTFK, CVV, VVR, VVF, VCT
Cable size	Larger than 1.25 mm ² [AWG16], or ø1.2 mm or above	0.3 to 1.25 mm ² [AWG22 to 16] *1	0.3 to 1.25 mm ² [AWG22 to 16] *1*4
Maximum overall line length	Refer to 11-1.	10 m [32 ft] *2	200 m [656 f t] *3

*1 The use of cables that are smaller than 0.75 mm² (AWG18) is recommended for easy handling.
*2 The section of the cable that exceeds 10 m [32 ft] must be included in the maximum indoor-outdoor transmission line distance.
*3 70 m [229 ft] max for PAR-CT01MA
*4 To wire PAR-CT01MA, PAR-4XMAA, PAR-3XMAA ("X" represents 0 or later), and Simple MA controller, use a wire with a diameter of 0.3 mm² [AWG22].

CVVS, MVVS: PVC insulated PVC sheathed shielded control cable
CPEVS: PE insulated PVC sheathed shielded communication cable
CVV: PVC insulated PVC sheathed control cable

PUMY-P-YKM3, PUMY-CP-YKM2

11-3. System configuration restrictions

11-3-1. Common restrictions for the CITY MULTI system

For each Outdoor/Heat source unit, the maximum connectable quantity of Indoor unit is specified at its Specifications table.

- A) 1 Group of Indoor units can have 1-16 Indoor units;
*OA processing unit GUF-RD(H) is considered as Indoor unit.
- B) Maximum 2 remote controllers for 1 group;
*MA/ME remote controllers cannot be present together in 1group.
*When a PAR-CT01MA or PAR-4XMAA ("X" represents 0 or later) is connected to a group, no other MA remote controllers can be connected to the same group.
- C) 1 Lossnay unit can interlock maximum 16 Indoor units; 1 Indoor unit can interlock only 1 Lossnay unit.
- D) Maximum 3 System controllers are connectable when connecting to TB3 of the Outdoor/Heat source unit.
- E) A maximum of 6 system controller are connectable to TB3 and TB7 of Outdoor/Heat source unit.
- F) 4 System controllers or more are connectable when connecting to TB7 of the Outdoor/Heat source unit, if the transmission power is supplied by the power supply unit PAC-SC51KUA.
*System controller connected as described in D) would have a risk that the failure of connected Outdoor/Heat source unit would stop power supply to the System controller.

11-3-2. Ensuring proper communication power and the number of connected units for M-NET

In order to ensure proper communication among Outdoor/Heat source unit, Indoor unit, Lossnay, OA processing unit GUF-RD(H), and Controllers, the transmission power situation for the M-NET should be observed. In some cases, Transmission booster should be used. Taking the power consumption of Indoor unit as 1, the equivalent power consumption or supply of others are listed at Table 1 and Table 2.

Both the transmission line for centralized controller and indoor-outdoor transmission line must meet the conditions listed below. (Both conditions a) and b) must be met.)

a) [Total equivalent power consumption] ≤ [The equivalent power supply]

b) [Total equivalent number of units (Table 1)] ≤ [40]

Table 1 The equivalent power consumption and the equivalent number of units

Category	Model	The equivalent power consumption	The equivalent number of units
CITY MULTI indoor unit OA unit CITY MULTI connection kit Air handling unit controller	Except for the models indicated by *2 PEFY-AF2500, 3000, 4000, 5000, 6000MH GUF-50, 100 PAC-LV11M-J PAC-AH125, 140, 250, 500M-J	1	1
CITY MULTI indoor unit *2	PDFY-P100VM-E-RE	2	2
BC controller	CMB-P/M	2	1
HBC	CMB-WP CMB-WM-V-AA/AB	2	1
	CMB-WM-F-AA CMB-WM-V-BB	2	2
Hydro unit	CMH-WM-V-A	2	1
PWFY *1	P100VM-E-BU	6	1
	P200VM-E1-AU P200VM-E2-AU	5	1
	(E)P100VM-E1-AU (E)P100VM-E2-AU P140VM-E1-AU P140VM-E2-AU	1	1
PFAV	P250, 300, 500, 600VM-E(-F)	1	1
	P750, 900VM-E(-F)	2	2
PFV, PEV	P200, 250, 400, 500YM-A	1	1
MA remote controller/Lossnay	PAR-CT01MA PAR-21, 31, 32, 33, 40, 41MA PAC-YT52CRA PAR-FA32MA LGH PZ-60, 61, 62DR-E PZ-43SMF-E	0	0
ME remote controller	PAR-U02MEDA	0.5	1
	PZ-52SF	0.25	1
System controller	AE-200E/AE-50E/EW-50E LM-AP	0	0
	AG-150A EB-50GU-J PAC-IF01AHC-J	0.5	1
	AT-50B	1.5	5
	PAC-YG60MCA PAC-YG66DCA PAC-YG63MCA	0.25	1
ON/OFF controller	PAC-YT40ANRA	1	1
MN converter	CMS-MNG-E	2	1
Outdoor/Heat source unit	TB7 power consumption	0	0
System control interface	MAC-333IF-E	0	0
A-M converter	PAC-SF83MA-E		

*1 PWFY cannot be connected to PUMY model.

Table 2 The equivalent power supply

Category	Model	The equivalent power supply		
Transmission Booster	PAC-SF46EPA-G	25 *1		
Power supply unit	PAC-SC51KUA	5		
Expansion controller	PAC-YG50ECA	6		
BM ADAPTER	BAC-HD150	6		
System controller	AE-200E/AE-50E	0.75		
	EW-50E	1.5		
	LM-AP	0		
Outdoor/Heat source unit		TB3 and TB7 total	TB7 only	TB3 only
	Outdoor unit except S-Series and TKA *2	32 *1	6	32 *1-equivalent power supplied to TB7
	S-Series outdoor unit	12 *1	0	12 *1
	S-Series outdoor unit (YBM)	32 *1	0	32 *1
	TKA outdoor unit	32 *1	- *3	32 *1

*1 When one or more indoor units listed below is connected, subtract 3 from the equivalent power supply.

Table 3

Category	Model
Indoor unit	Sized P200/P250
	PEFY-AF4000/5000/6000MH, PFFY-P400/500YM-E, PFFY-P400/500YMH-C
	PFFY-P300/600YM-E-F, PFFY-P300/600YM-C-F, PDFY-P100VM-E-RE
Air handling unit controller	PAC-AH250/500M-J
PFAV	PFAV-P500/600/750/900VM-E(-F)
PFV	PFV-P400/500YM-A
PEV	PEV-P400/500YM-A

*2 If PAC-SC51KUA is used to supply power at TB7 side, no power supply need from Outdoor/Heat source unit at TB7, Connector TB3 itself will therefore have 32.

*3 Do not supply power to TB7 from TKA outdoor units.

Use PAC-SC51KUA or PAC-SF46EPA-G when connecting an M-NET device to TB7.

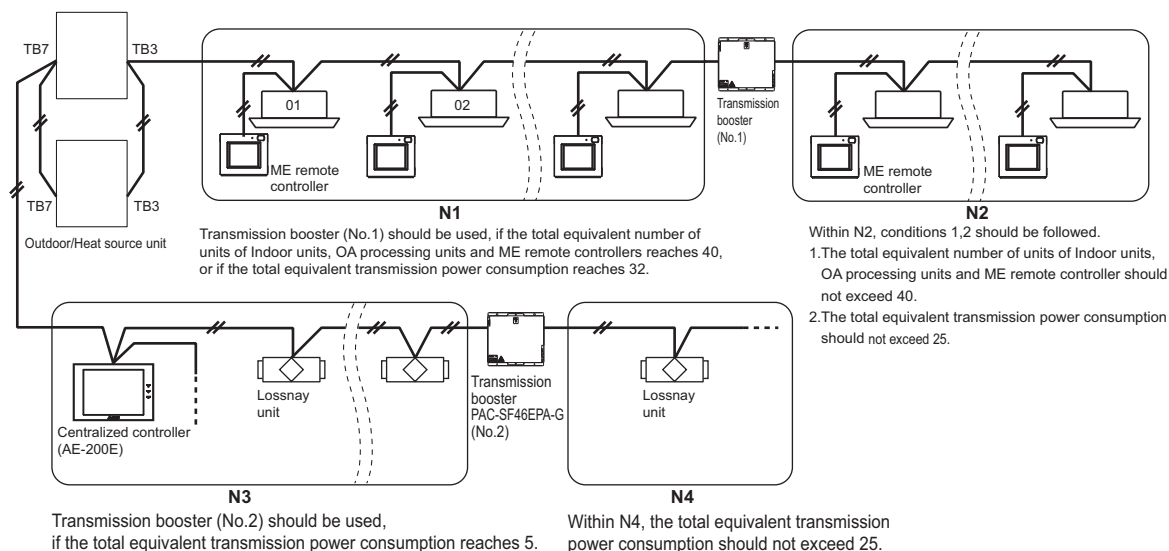
With the equivalent power consumption values and the equivalent number of units in Table 1 and Table 2, PAC-SF46EPA-G can be designed into the air-conditioner system to ensure proper system communication according to (A), (B), (C).

- (A) Firstly, count from TB3 at TB3 side the total equivalent number of units of Indoor units, OA processing units, ME remote controller, and System controllers. If the total equivalent number of units reaches 40, a PAC-SF46EPA-G should be set.
- (B) Secondly, count from TB7 side to TB3 side the total transmission power consumption. If the total equivalent power supply reaches 32, a PAC-SF46EPA-G should be set. Yet, if a PAC-SC51KUA or another controller with a built-in power supply, such as PAC-YG50ECA, is used to supply power at TB7 side, count from TB3 side only.
- (C) Thirdly, count from TB7 at TB7 side the total transmission power consumption, If the total equivalent power supply for only TB7 reaches 6, a PAC-SF46EPA-G should be set. Also, count from TB7 at TB7 side the total equivalent number of units of System controllers, and so on. If the total equivalent number of units reaches 40, a PAC-SF46EPA-G should be set.

* The equivalent power supply of S-Series outdoor unit is 12.

* When one or more indoor units listed in Table 3 is connected, subtract 3 from the equivalent power supply.

■ System example



11-3-3. Ensuring proper power supply to System controller

The power to System controller (excluding AE-200E, AE-50E, EW-50E, BAC-HD150, LM-AP) is supplied via M-NET transmission line. M-NET transmission line at TB7 side is called Centralized control transmission line while one at TB3 side is called Indoor-Outdoor/Heat source transmission line. There are 3 ways to supply power to the System controller.

A) Connecting to TB3 of the Outdoor/Heat source unit and receiving power from the Outdoor/Heat source unit.

B) Connecting to TB7 of the Outdoor/Heat source unit and receiving power from the Outdoor/Heat source unit.
(Not applicable to the PUMY model)

C) Connecting to TB7 of the Outdoor/Heat source unit but receiving power from power supply unit PAC-SC51KUA.

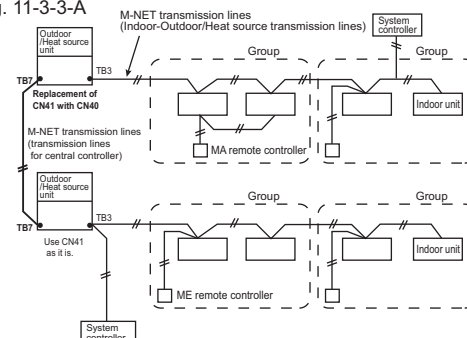
* System controllers (AE-200E, AE-50E, EW-50E, BAC-HD150, LM-AP) have a built-in function to supply power to the M-NET transmission lines, so no power needs to be supplied to the M-NET transmission lines from the Outdoor/Heat source units or from PAC-SC51KUA.

11-3-3-A. When connecting to TB3 of the Outdoor/Heat source unit and receiving power from the Outdoor/Heat source unit.

Maximum 3 System controllers can be connected to TB3.

If there is more than 1 Outdoor/Heat source unit, it is necessary to replace power supply switch connector CN41 with CN40 on one Outdoor/Heat source unit.

Fig. 11-3-3-A

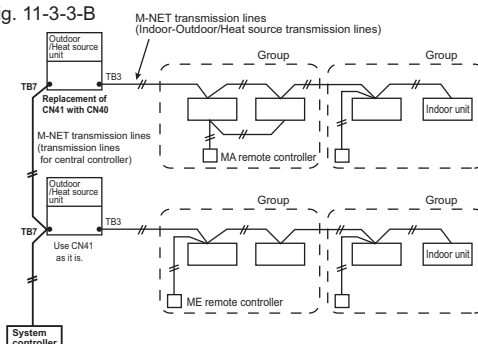


11-3-3-B. When connecting to TB7 of the Outdoor/Heat source unit and receiving power from the Outdoor/Heat source unit. (Not applicable to the PUMY model)

A maximum of 6 system controller are connectable to TB3 and TB7 of Outdoor/Heat source unit. (Not applicable to the PUMY model)

It is necessary to replace power supply switch connector CN41 with CN40 on one Outdoor/Heat source unit.

Fig. 11-3-3-B



11-3-3-C. When connecting to TB7 of the Outdoor/Heat source unit but receiving power from PAC-SC51KUA.

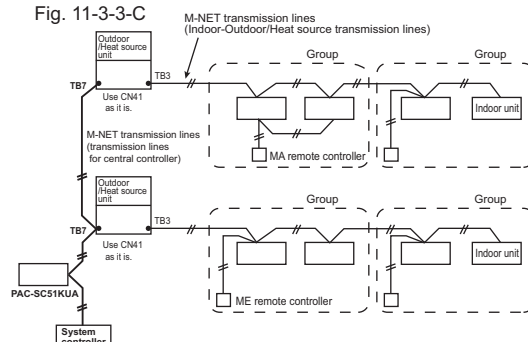
When using PAC-SC51KUA to supply transmission power, the power supply connector CN41 on the Outdoor/Heat source units should be kept as it is. It is also a factory setting.

1 PAC-SC51KUA supports maximum 1 AG-150A or 1 EB-50GU-J unit due to the limited power 24VDC at its TB3.

However, 1 PAC-SC51KUA supplies transmission power at its TB2 equal to 5 Indoor units, which is referable at Table 2.

If System controller, ON/OFF controller connected to TB7 consume transmission power more than 5 (Indoor units), Transmission booster PAC-SF46EPA-G is needed. PAC-SF46EPA-G supplies transmission power equal to 25 Indoor units.

Fig. 11-3-3-C



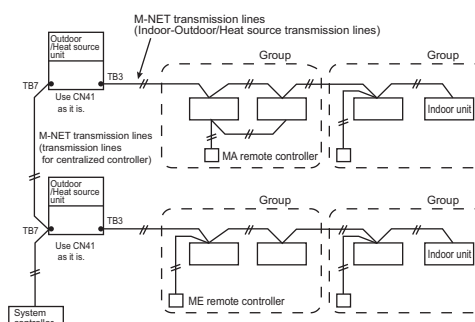
⚠ CAUTION

■ How to connect system controllers (AE-200E, AE-50E, EW-50E, BAC-HD150, LM-AP) to a given system
System controllers (AE-200E, AE-50E, EW-50E, BAC-HD150, LM-AP) have a built-in function to supply power to the M-NET transmission lines, so no power needs to be supplied to the M-NET transmission lines from the Outdoor/Heat source units or from PAC-SC51KUA.

Leave the power supply connector on the Outdoor/Heat source unit connected to CN41 as it is.

Refer to 11-3-2 for information about the power-supply capacity of each system controller (EW-50E, BAC-HD150, LM-AP) to the low-level system controllers.

Fig. 11-3-3-D



11-3-4. Power supply to LM-AP

1-phase 220-240VAC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary when connecting only the LM-AP. Yet, make sure to change the power supply changeover connector CN41 to CN40 on the LM-AP.

11-3-5. Power supply to expansion controller

1-phase 100-240VAC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary.

The expansion controller supplies power through TB3, which equals 6 indoor units. (refer to Table 2)

11-3-6. Power supply to BM ADAPTER

1-phase 100-240VAC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary when only BM ADAPTER is connected.

Yet, make sure to move the power jumper from CN41 to CN40 on the BM ADAPTER.

11-3-7. Power supply to AE-200E/AE-50E/EW-50E

1-phase 100-240VAC power supply is needed.

The power supply unit PAC-SC51KUA is not necessary when connecting only the AE-200E/AE-50E/EW-50E.

11-4. Address setting

11-4-1. Switch operation

In order to constitute CITY MULTI in a complete system, switch operation for setting the unit address No. and connection No. is required.

- ① Address No. of outdoor unit, indoor unit and remote controller.
The address No. is set at the address setting board.

- ② Caution for switch operations

- Be sure to shut off power source before switch setting. If operated with power source on, switch can not operate properly.
- No units with identical unit address shall exist in one whole air conditioner system. If set erroneously, the system can not operate.

- ③ MA remote controller

- When connecting only one remote controller to one group, it is always the main remote controller. When connecting two remote controllers to one group, set one remote controller as the main remote controller and the other as the sub remote controller.
- The factory setting is "Main".

PAR-4XMAA ("X" represents 0 or later), PAR-CT01MA

The MA remote controller does not have the switches listed above.

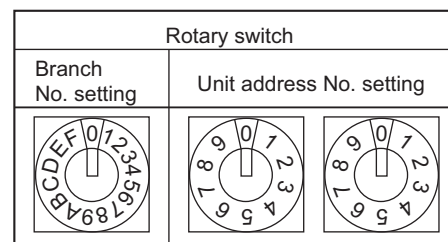
Refer to the installation manual for the function setting.

PAC-YT52CRA

Setting the dip switches

There are switches on the back of the top case. Remote controller Main/Sub and other function settings are performed using these switches. Ordinarily, only change the Main/Sub setting of SW1.
(The factory settings are ON for SW1, 2, and 3 and OFF for SW4.)

SW No.	SW contents Main	ON	OFF	Comment
1	Remote controller Main/Sub setting	Main	Sub	Set one of the two remote controllers at one group to "ON".
2	Temperature display units setting	Celsius	Fahrenheit	When the temperature is displayed in [Fahrenheit], set to "OFF".
3	Cooling/heating display in AUTO mode	Yes	No	When you do not want to display "Cooling" and "Heating" in the AUTO mode, set to "OFF".
4	Indoor temperature display	Yes	No	When you want to display the indoor temperature, set to "ON".



11-4-2. Rule of setting address

Unit		Address setting	Example	Note
Indoor unit		01 ~ 50	 	Use the most recent address within the same group of indoor units. Make the indoor units address connected to the BC controller (Sub) larger than the indoor units address connected to the BC controller (Main). If applicable, set the sub BC controllers in an PURY/PQRY system in the following order: (1) Indoor unit to be connected to the BC controller (Main) (2) Indoor unit to be connected to the BC controller (No.1 Sub) (3) Indoor unit to be connected to the BC controller (No.2 Sub) Set the address so that (1)<(2)<(3)
Outdoor unit		51 ~ 99, 100	 	The smallest address of indoor unit in same refrigerant system + 50 * The address automatically becomes "100" if it is set as "01 ~ 50"
BC controller (Main)		52 ~ 99, 100	 	The address of outdoor unit + 1 * Please reset another address between 51 and 99 when two addresses overlap. * The address automatically becomes "100" if it is set as "01 ~ 50"
BC controller (Sub)		53 ~ 99, 100	 	Lowest address within the indoor units connected to the BC controller (Sub) plus 50.
Local remote controller	ME remote controller (Main)	101 ~ 150	1 Fixed  	The smallest address of indoor unit in the group + 100 * The place of "100" is fixed to "1"
	ME remote controller (Sub)	151 ~ 199, 200	1 Fixed  	The address of main remote controller + 50 * The address automatically becomes "200" if it is set as "00"
System controller	ON/OFF remote controller	201 ~ 250	  	The smallest group No. to be managed + 200 * The smallest group No. to be managed is changeable.
	AE-200E/AE-50E EW-50E AG-150A EB-50GU-J AT-50B	000, 201 ~ 250	  	* AT-50B cannot be set to "000".
	PAC-YG50ECA	000, 201 ~ 250	  	* Settings are made on the initial screen of AG-150A.
	BAC-HD150	000, 201 ~ 250	  	* Settings are made with setting tool of BM ADAPTER.
	LMAP04-E	201 ~ 250	2 Fixed  	
PI, AI, DIDO	PAC-YG60MCA	01 ~ 50	 	
	PAC-YG63MCA	01 ~ 50	 	
	PAC-YG66DCA	01 ~ 50	 	
Lossnay, OA processing unit		01 ~ 50	 	After setting the addresses of all the indoor units, assign an arbitrary address.
PAC-IF01AHC		201 ~ 250	2 Fixed  	

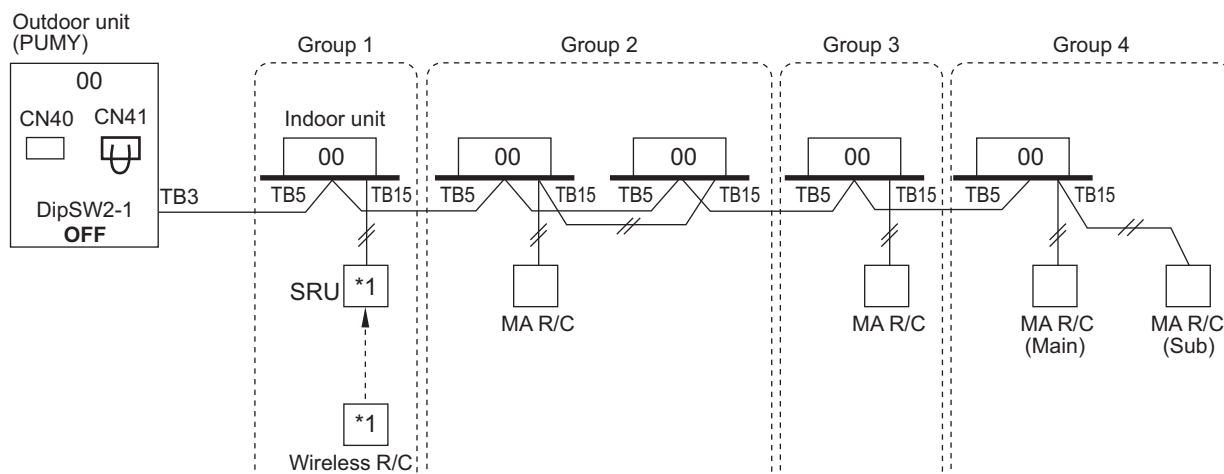
11-4-3. System example

Factory setting

Original switch setting of the outdoors, indoors, controllers, LM-AP and BM ADAPTER at shipment is as follows.

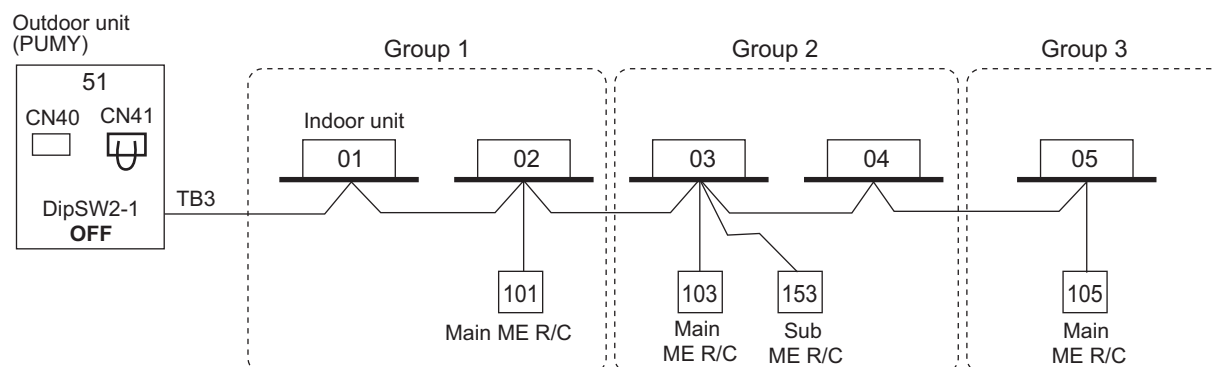
- Outdoor unit : Address: 00, CN41: ON (Jumper), DipSW2-1: OFF
- Indoor unit : Address: 00
- ME Remote controller : Address: 101
- LM-AP : Address: 247, CN41: ON (Jumper), DipSW1-2: OFF
- BM ADAPTER : Address: 000, CN41: ON (Jumper)
- AE-200E/AE-50E/EW-50E : Address: 000, CN21: ON (Jumper)

11-4-3-1. Basic (No address setting)

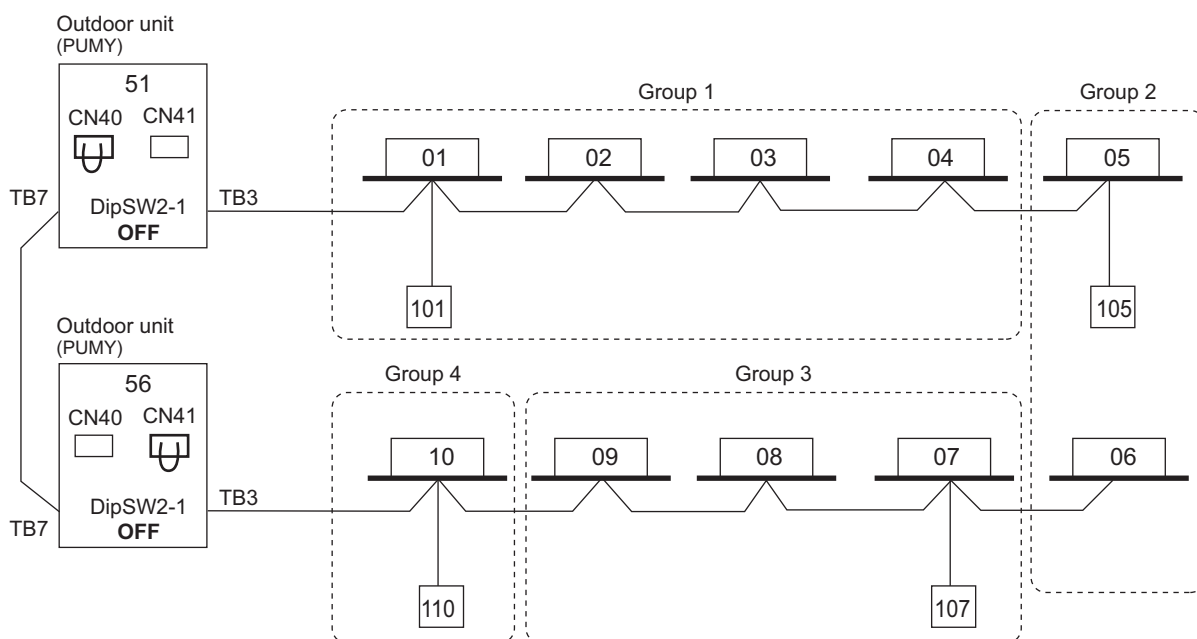


*1 For wireless R/C and Signal receiver unit(SBU), channel 1, 2 and 3 are selectable and should be set same channel.

11-4-3-2. Basic, Sub/main ME remote controller



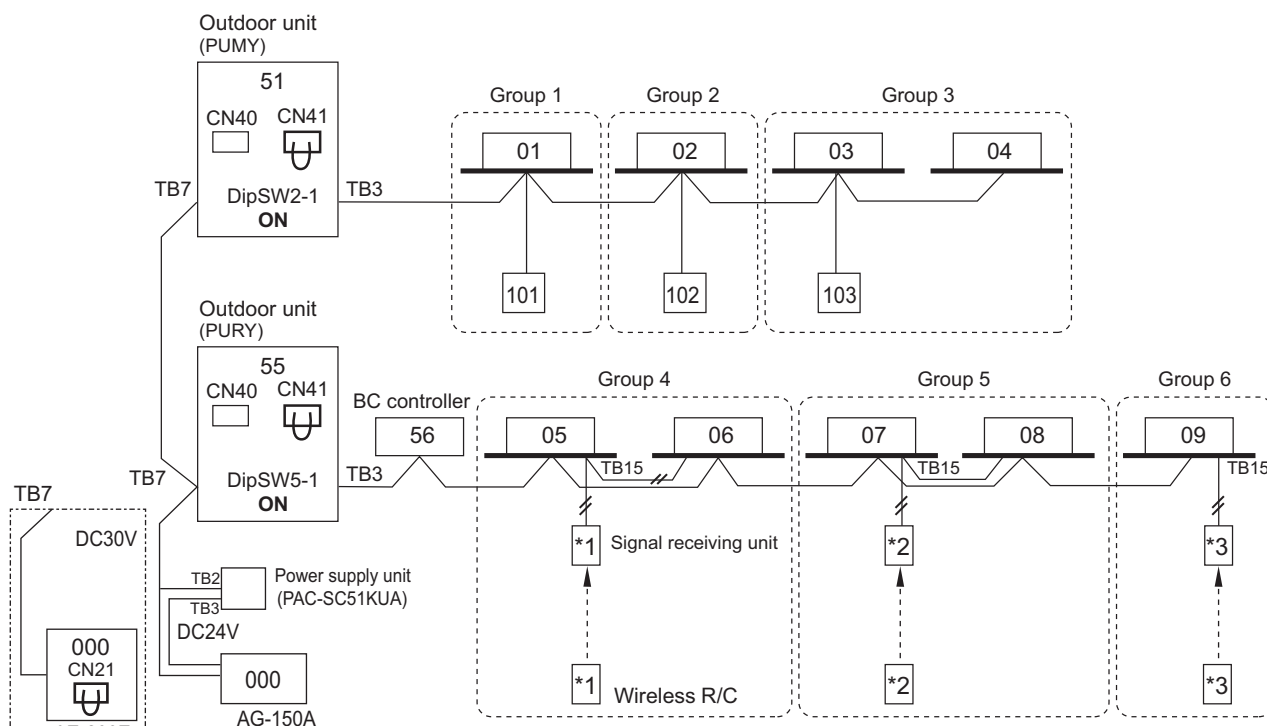
11-4-3-3. Grouping in different refrigerant system



NOTE

- It is necessary to change the connector to CN40 on the outdoor unit (Heat source unit) control board (only one outdoor unit (Heat source unit)) when the group is set between other refrigerant systems.
- It is necessary to set on the remote controller by manual when group sets on the different refrigerant system. Please refer to remote controller installation manual.

11-4-3-4. 2 Outdoor unit, AG-150A, AE-200E, MA



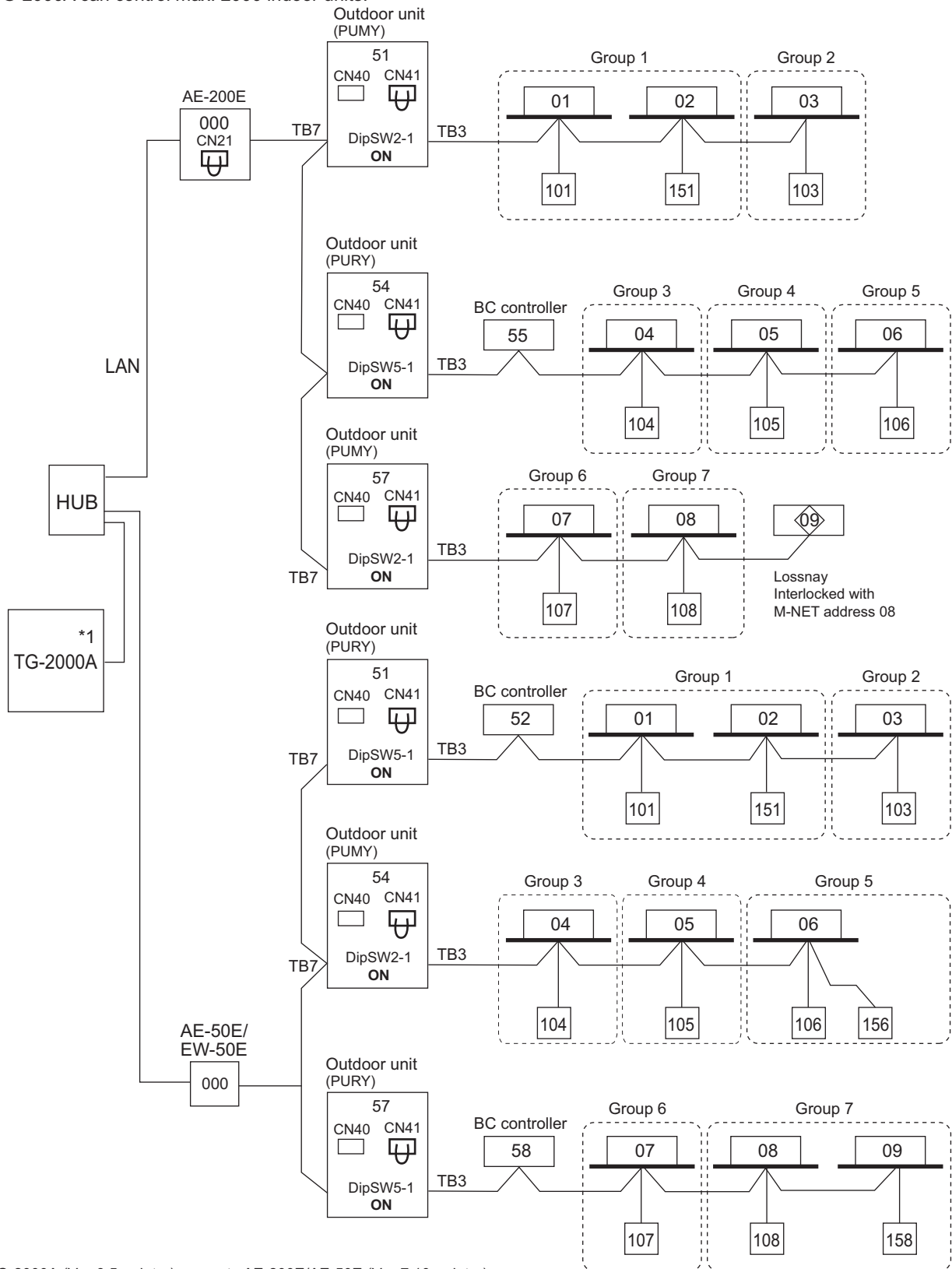
* For wireless R/C and Signal receiver unit(SBU), channel 1, 2 and 3 are selectable and should be set same channel.

11-4-3-5. TG-2000A(*1)+AE-200E/AE-50E/EW-50E

AE-200E can control max. 50 indoor units;

TG-2000A can control max. 40 of AE-200E/AE-50E/EW-50E;*2

TG-2000A can control max. 2000 indoor units.



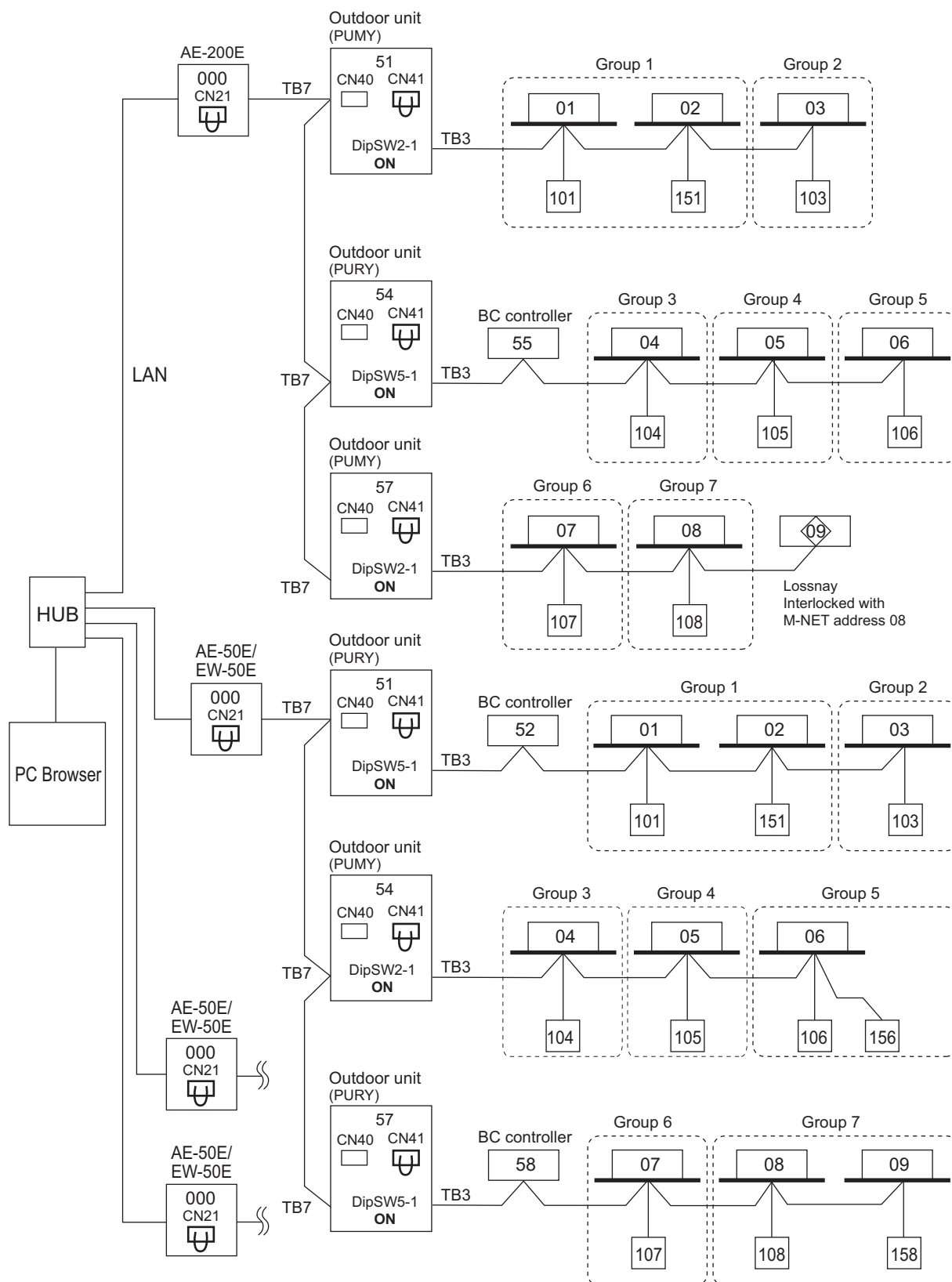
*1 TG-2000A (Ver.6.5 or later) supports AE-200E/AE-50E (Ver.7.10 or later).

TG-2000A (Ver.6.60 or later) supports EW-50E.

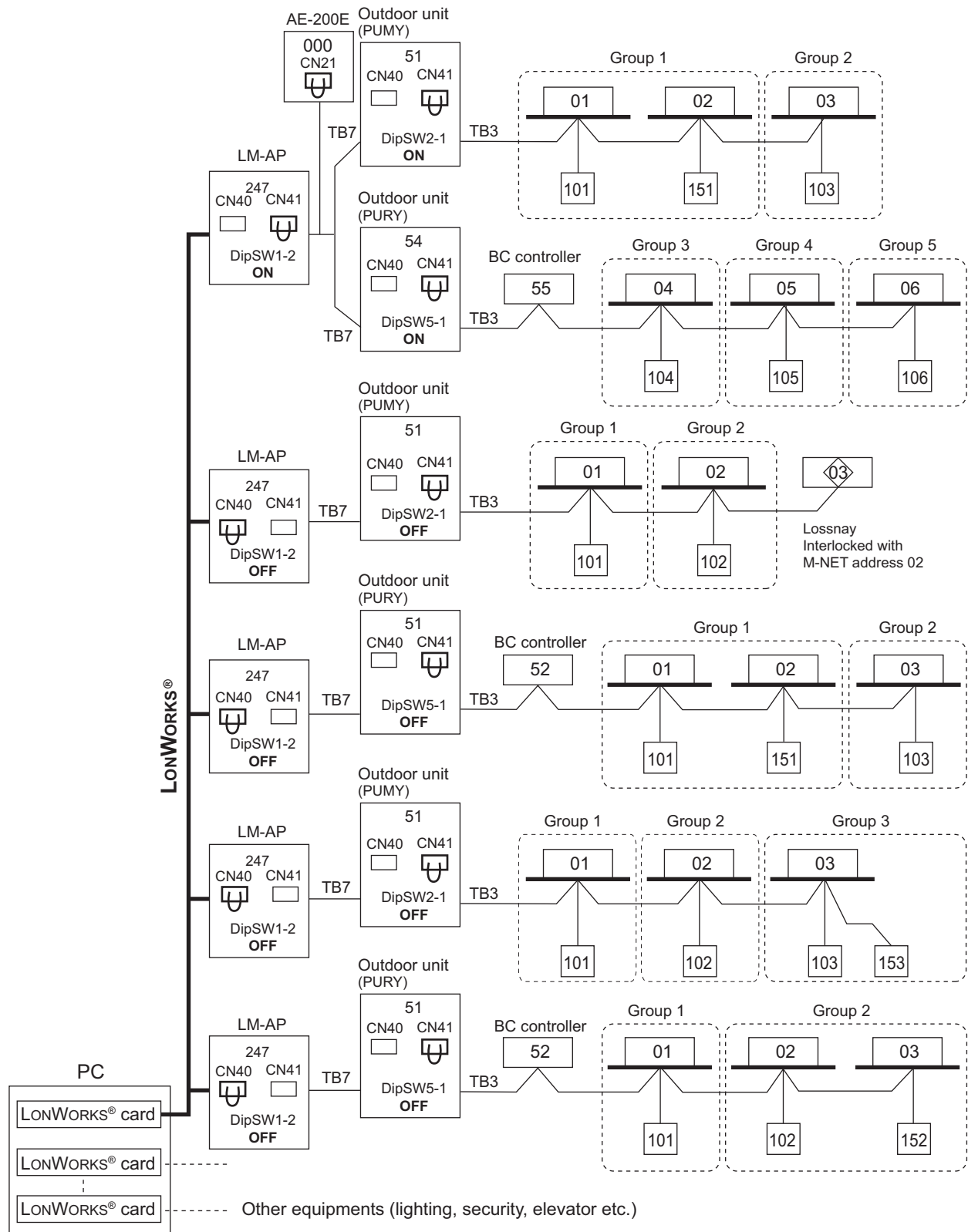
*2 When AE-200E connected with AE-50E/EW-50E is connected, the number of AE-50E/EW-50E will be the maximum controllable number. TG-2000A can control up to 40 AE-200E/AE-50E/EW-50E or AE-200E without AE-50E/EW-50E connection.

11-4-3-6. AE-200E + AE-50E/EW-50E

AE-200E can control max. 200 indoor units/via AE-50E/EW-50E.



11-4-3-7. LM-AP



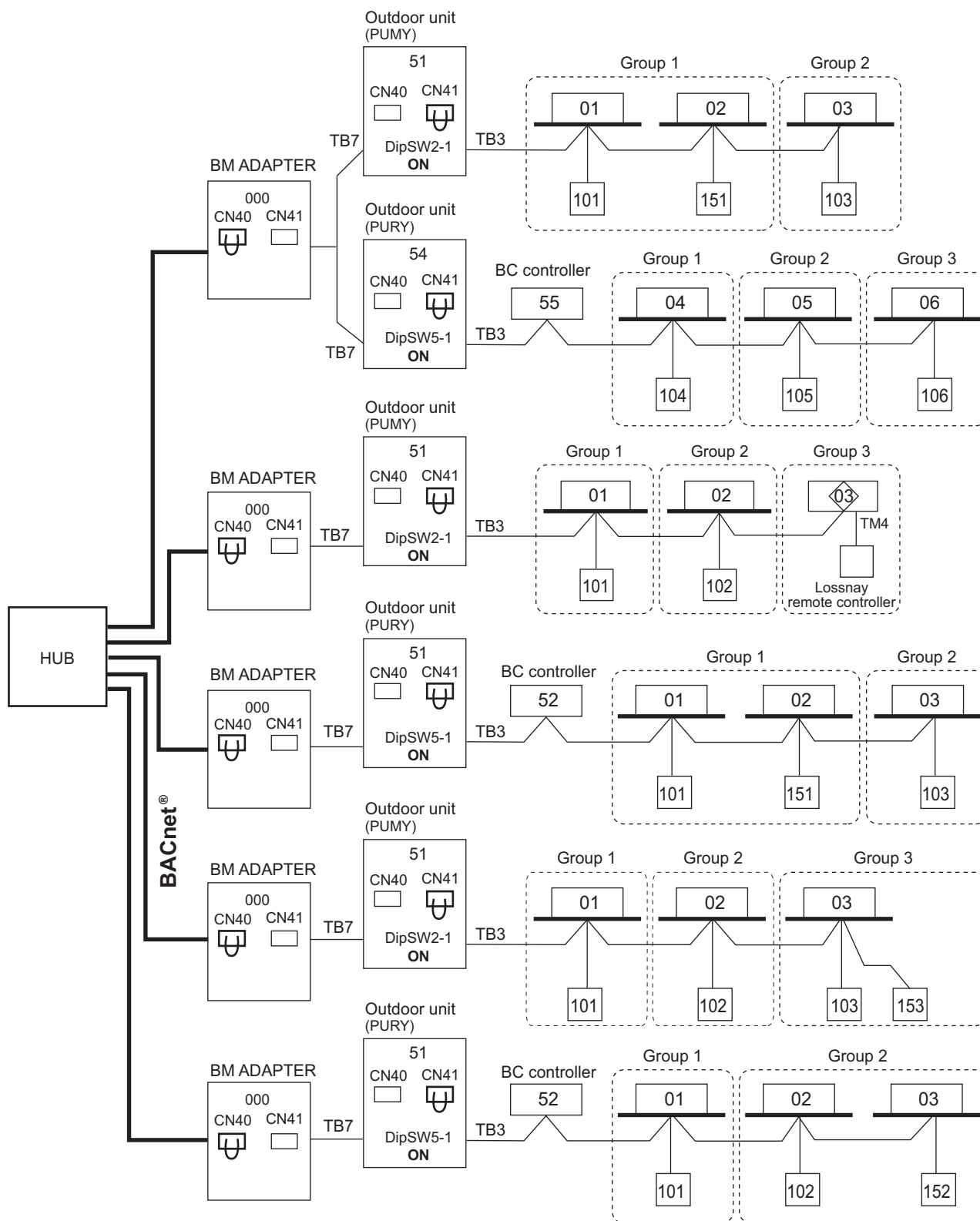
NOTE

- LM-AP can control 50 indoor units.
- It is necessary to turn on the DipSW1-2 on the LM-AP control board and the DipSW2-1 on the outdoor unit (heat source unit) control board with centralized controller (Power supply unit).
- It is necessary to change the connector to CN40 on the LM-AP control board without centralized controllers (Power supply unit).

11-4-3-8. BM ADAPTER

BM ADAPTER can transmit for max. 50 indoor units;

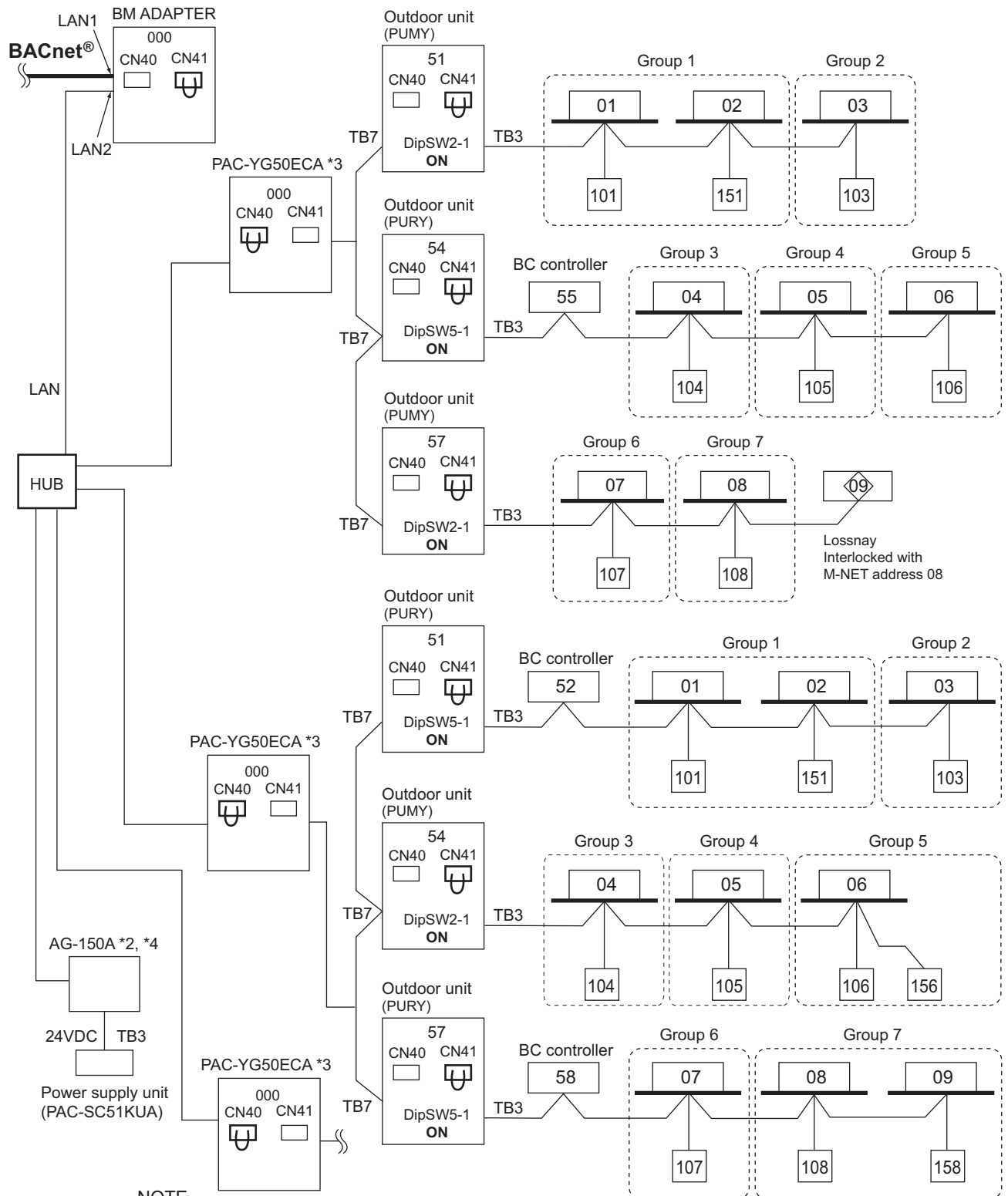
Change Jumper from CN41 to CN40 to activate power supply to BM ADAPTER itself for those BM ADAPTER connected without the power supply unit.



11-4-3-9. BM ADAPTER+PAC-YG50ECA (Expansion controller)

BM ADAPTER(*1) can transmit for max. 150 indoor units/via expansion controllers (PAC-YG50ECA).

When the dual-set-point function is used, no expansion controllers can be connected, and only up to 50 units can be controlled from each BAC-HD150.



NOTE

• It is not necessary to connect the M-NET transmission line to the TB3 on BM ADAPTER. Leave the power jumper of BM ADAPTER connected to CN41.

*1 BM ADAPTER (Ver.2.00 or later) supports the expansion controller.

*2 AG-150A (Ver.2.30 or later) supports the BM ADAPTER.

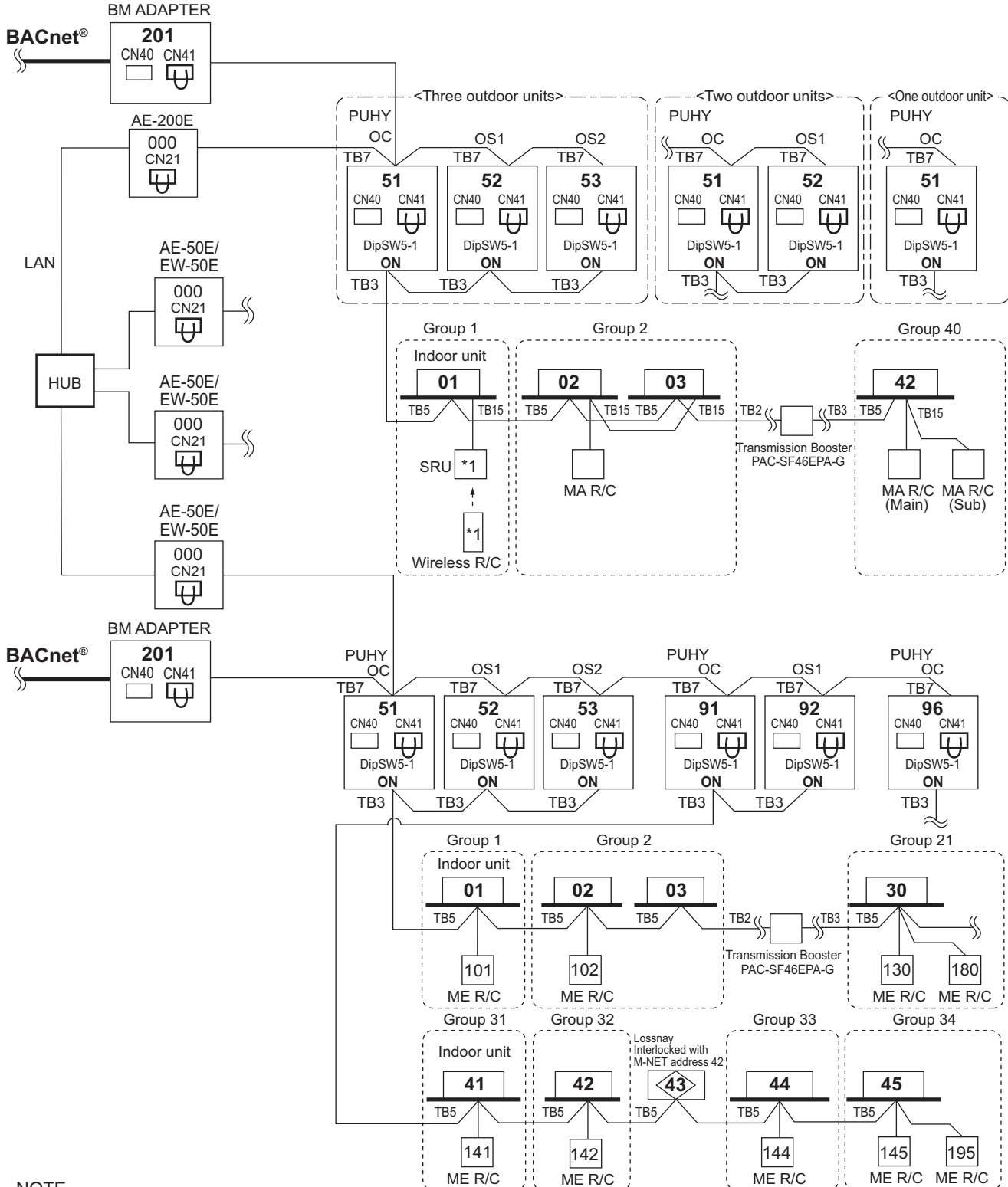
*3 PAC-YG50ECA (Ver.1.30 or later) supports the BM ADAPTER.

*4 Consult your dealer for restrictions when connecting both AG-150A and BM ADAPTER to PAC-YG50ECA.

11-4-3-10. BM ADAPTER+AE-200E/AE-50E/EW-50E

BM ADAPTER can transmit for max. 50 indoor units.

One BM ADAPTER is required for one AE-200E/AE-50E/EW-50E.



NOTE

•It is not necessary to connect the M-NET transmission line to the TB3 on BM ADAPTER. Leave the power jumper of BM ADAPTER connected to CN41.

*1 For Wireless R/C and Signal receiver unit (SRU), channel 1, 2 and 3 are selectable and should be set to same channel.

*2 Consult your dealer for restrictions when connecting both AE-200E/AE-50E/EW-50E and BM ADAPTER.

*3 When a PAR-CT01MA or PAR-3X MA-Series (X indicates 1, 2...) is connected to a group, no other MA remote controllers can be connected to the same group.

*4 In a system that uses AE-200E and/or AE-50E/EW-50E, each BM-ADAPTER must be connected to the M-NET line.

12-1. R410A Piping material

Refrigerant pipe for CITY MULTI shall be made of phosphorus deoxidized copper, and has two types.

A. Type-O: Soft copper pipe (annealed copper pipe), can be easily bent with human's hand.

B. Type-1/2H pipe: Hard copper pipe (Straight pipe), being stronger than Type-O pipe of the same radical thickness.

The maximum operation pressure of R410A air conditioner is 4.30 MPa [623psi]. The refrigerant piping should ensure the safety under the maximum operation pressure. MITSUBISHI ELECTRIC recommends pipe size as Table1, or You shall follow the local industrial standard. Pipes of radical thickness 0.7mm or less shall not be used.

Table 1. Copper pipe size and radial thickness for R410A CITY MULTI.

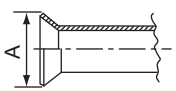
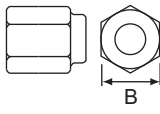
Size (mm)	Size (inch)	Radial thickness (mm)	Radial thickness (mil)	Pipe type
ø6.35	ø1/4"	0.8	[32]	Type-O
ø9.52	ø3/8"	0.8	[32]	Type-O
ø12.7	ø1/2"	0.8	[32]	Type-O
ø15.88	ø5/8"	1.0	[40]	Type-O
ø19.05	ø3/4"	1.2	[48]	Type-O
ø19.05	ø3/4"	1.0	[40]	Type-1/2H or H
ø22.2	ø7/8"	1.0	[40]	Type-1/2H or H
ø25.4	ø1"	1.0	[40]	Type-1/2H or H
ø28.58	ø1-1/8"	1.0	[40]	Type-1/2H or H
ø31.75	ø1-1/4"	1.1	[44]	Type-1/2H or H
ø34.93	ø1-3/8"	1.2	[48]	Type-1/2H or H
ø41.28	ø1-5/8"	1.4	[56]	Type-1/2H or H

* For pipe sized ø19.05 (3/4") for R410A air conditioner, choice of pipe type is up to you.

* The figures in the radial thickness column are based on the Japanese standards and provided only as a reference. Use pipes that meet the local standards.

Flare

Due to the relative higher operation pressure of R410A compared to R22, the flare connection should follow dimensions mentioned below so as to achieve enough the air-tightness.

Flare pipe	Pipe size	A (For R410A) (mm[in.])	Flare nut	Pipe size	B (For R410A) (mm[in.])
	ø6.35 [1/4"]	9.1		ø6.35 [1/4"]	17.0
	ø9.52 [3/8"]	13.2		ø9.52 [3/8"]	22.0
	ø12.70 [1/2"]	16.6		ø12.70 [1/2"]	26.0
	ø15.88 [5/8"]	19.7		ø15.88 [5/8"]	29.0
	ø19.05 [3/4"]	24.0		ø19.05 [3/4"]	36.0

12-2. Piping Design

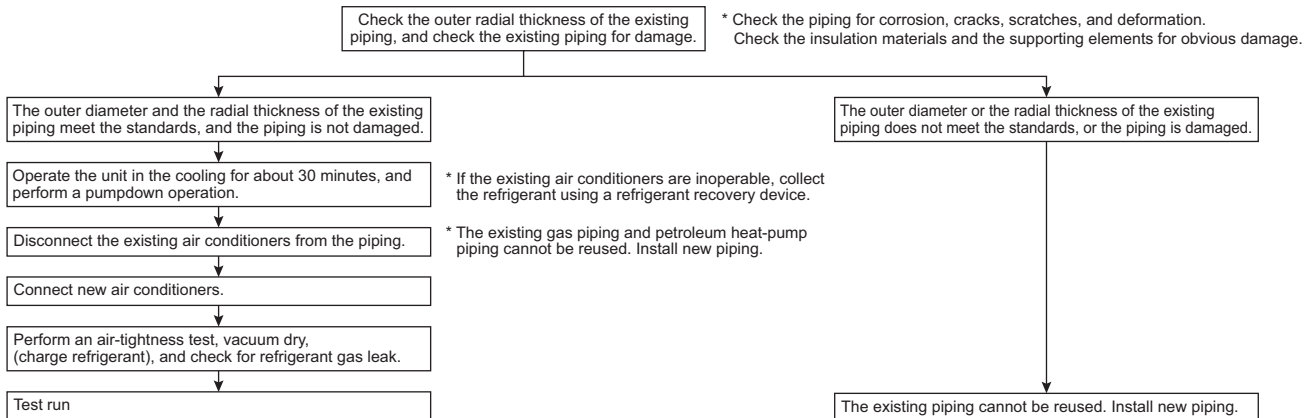
12-2-1. Use of the existing refrigerant piping

WARNING**Before operating the compressor, make sure the refrigerant pipes are properly installed.**

- Operating the compressor without the refrigerant pipes properly being connected and with the stop (ball) valve open, the compressor may suck in air, raising the pressure inside the refrigerant cycle abnormally high and resulting in pipe bursting and personal injury.

- Adequately insulate the liquid and gas refrigerant pipes to keep condensation from dripping.
- Provide additional insulation on the refrigerant pipes as necessary to keep condensation from forming on the insulation surface. (Insulating material: Heat-resistance temperature: 120°C; Thickness: 15 mm or greater)
- * Installation of the unit in high-temperature high-humidity conditions, such as in the ceiling of the top floor, may require additional insulation.
- Insulate refrigerant pipes with heat-resistant polyethylene foam and without leaving any gap between indoor unit and insulating material or between insulating materials. (Exposed pipes may cause condensation and pose burn hazard.)
- Keep the piping length within the limits, and charge the required amount of refrigerant (R410A).
- * Before charging refrigerant, evacuate the extended piping and the indoor units, and charge refrigerant through the stop valve (applicable when the unit is stopped). When charging refrigerant through the check valve on the suction side, use a safety charger to prevent liquid refrigerant from being inhaled (applicable when the unit is operated).
- * When charging refrigerant, record the amount of refrigerant charged in the relevant section of the maintenance manual (attached to the product).
- **Determine the reusability of the existing piping, using the flowchart below.**
- **If the diameter of the existing piping differs from the standard diameter, check the reusability of the piping and restrictive conditions for reuse.**

Cautionary notes on reusing the existing piping



Connecting non-standard diameter pipes

- The following restrictions apply when using pipes with a diameter different from the standard recommended size.

Usability of pipes with non-standard diameters

• Main pipe size

	Outside diameter(mm)	Radial thickness	P175, CP175	P200, CP200	P225, CP225
Gas pipe	ø12.7	t 0.8	NA	NA	NA
	ø15.88	t 1.0	NA	NA	NA
	ø19.05	t 1.0	NA	NA	NA
	ø22.2	t 1.0	A	A	A
	ø25.4 or greater	t 1.0	B*	B*	B*
Liquid pipe	ø9.52	t 0.8	A	A	A
	ø12.7	t 0.8	D	D	D
	ø15.88	t 1.0	D	D	D
	ø19.05 or greater	t 1.0 or greater	NA	NA	NA

A: Standard piping
 B: Usable (with no loss of performance)
 C: Usable (with loss of performance), Set the SW6-1 from OFF to ON.
 D: Usable (Restrictions on refrigerant charge apply.)
 NA: Unusable
 * Set the SW6-1 from OFF to ON.

• Size of the piping after branching and up to indoor units

	Outside diameter(mm)	Radial thickness	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200	P250
Gas pipe	ø12.7	t 0.8	A	A	A	A	A	A	C	C	C	C	C	C	NA	NA
	ø15.88	t 1.0	NA	NA	NA	NA	B	B	A	A	A	A	A	A	NA	NA
	ø19.05	t 1.0	NA	NA	NA	NA	NA	NA	NA	B	B	B	B	B	A	NA
	ø22.2	t 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	B	A
	ø25.4	t 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	B
Liquid pipe	ø28.58	t 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ø6.35	t 0.8	A	A	A	A	A	A	15 m or less	NA	NA	NA	NA	NA	NA	NA
	ø9.52	t 0.8	D	D	D	D	D	D	A	A	A	A	A	A	A	A
	ø12.7	t 1.0	NA	NA	NA	NA	NA	NA	D	D	D	D	D	D	D	D
	ø15.88	t 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ø19.05	t 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Pipe diameter and radial thickness Note: For pipes with a diameter of ø22.2 and up, use 1/2-H or H-material.

Outside diameter (mm)	ø6.35	ø9.52	ø12.7	ø15.88	ø19.05	ø22.2	ø25.4	ø28.58
Radial thickness (mm)	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.0

Restrictions on extending piping/Amount of refrigerant to be charged (REPLACE units)

When reusing the existing piping, calculate the amount of refrigerant to be charged using the formula below. The existing piping is usable if the result of the calculation below is less than 10 kg. If the calculation result is at or above 10 kg, use new piping. When reusing the existing piping, charge the amount of refrigerant required for the piping and for the indoor units.

- Calculating the amount of refrigerant to be charged based on pipe size and length

Total length of ø12.7 liquid pipes × 0.12	+	Total length of ø9.52 liquid pipes × 0.05	+	Total length of ø6.35 liquid pipes × 0.019	=	Amount of additional refrigerant to be charged (REPLACE units)
(m) × 0.092 (kg/m)		(m) × 0.05 (kg/m)		(m) × 0.019 (kg/m)		(kg)

- Calculating the amount of refrigerant to be charged based on indoor unit capacity

PUMY-P175-225YKM3-PA, DA(-BS)

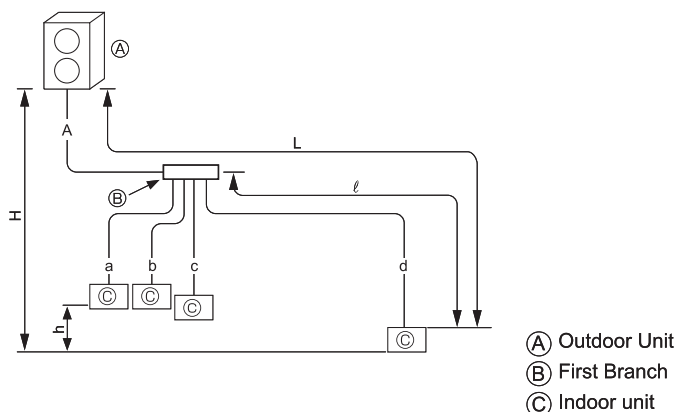
PUMY-CP175-225YKM2-PA, TH, DA(-BS)

Total capacity index of the connected indoor units	Amount of refrigerant to be charged
~ 16.0kW	2.5kg
16.1kW ~ 25.0kW	3.0kg
25.1kW ~	3.5kg

12-2-2. PUMY-P175, 200, 225YKM3-PA, DA(-BS)/PUMY-CP175, 200, 225YKM2-PA, TH, DA(-BS)

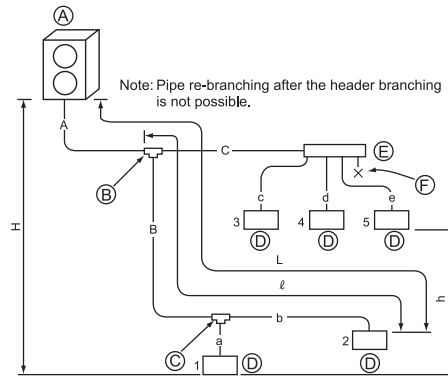
Line-Branch Method Connection Examples (Connecting to 4 Indoor Units)		Ⓐ Outdoor Unit Ⓑ First Branch Ⓒ Indoor unit																																																
Permissible Length	Total Piping Length	$A+B+C+a+b+c+d \leq 150 \text{ m}$																																																
	Farthest Piping Length (L)	$A+B+C+d \leq 80 \text{ m}$																																																
	Farthest Piping Length After First Branch (ℓ)	$B+C+d \leq 30 \text{ m}$																																																
Permissible High/Low Difference	High/Low Difference in Indoor/Outdoor Section (H)	50 meters or less (If the outdoor unit is lower, 40 meters or less)																																																
	High/Low Difference in Indoor/Indoor Section (h)	15 meters or less																																																
■ Selecting the Refrigerant Branch Kit		Use an optional branch piping kit (CMY-Y62-G-E).																																																
■ Select Each Section of Refrigerant Piping (1) Section From Outdoor Unit to First Branch (A) (2) Sections From Branch to Indoor Unit (a,b,c,d) (3) Section From Branch to Branch (B,C) Select the size from the table to the right.		(1) Refrigerant Piping Diameter In Section From Outdoor Unit to First Branch(Outdoor Unit Piping Diameter) <table><tr><th rowspan="2">Model</th><th colspan="2">Piping Diameter (mm)</th></tr><tr><th>Liquid pipe</th><th>Gas pipe</th></tr><tr><td>$L \leq 60\text{m}$</td><td>ø9.52</td><td rowspan="2">ø22.2</td></tr><tr><td>$L > 60\text{m}$</td><td>ø12.7</td></tr></table> (3) Refrigerant Piping Diameter In Section From Branch to Branch <table><tr><th rowspan="2">Total capacity of indoor units</th><th colspan="2">Liquid pipe (mm)</th><th rowspan="2">Gas pipe (mm)</th></tr><tr><th>$L \leq 60\text{m}$</th><th>$L > 60\text{m}$</th></tr><tr><td rowspan="2">Up to16.0kW</td><td>ø9.52</td><td rowspan="2">ø12.7</td><td rowspan="2">ø15.88</td></tr><tr><td>ø12.7</td></tr><tr><td rowspan="2">16.1 to 29.1kW</td><td>ø9.52</td><td rowspan="2">ø12.7</td><td rowspan="2">ø19.05</td></tr><tr><td>ø12.7</td></tr></table> (2) Refrigerant Piping Diameter In Section From Branch to Indoor Unit (Indoor Unit Piping Diameter) <table><tr><th rowspan="2">Model number</th><th colspan="2">Piping Diameter (mm)</th></tr><tr><th>Liquid Pipe</th><th>Gas Pipe</th></tr><tr><td rowspan="2">50 or lower</td><td>ø6.35</td><td rowspan="2">ø12.7</td></tr><tr><td>ø9.52</td></tr><tr><td rowspan="2">63 to 140</td><td>ø9.52</td><td rowspan="2">ø15.88</td></tr><tr><td>ø12.7</td></tr><tr><td rowspan="2">200</td><td>ø9.52</td><td rowspan="2">ø19.05</td></tr><tr><td>ø12.7</td></tr><tr><td rowspan="2">250</td><td>ø9.52</td><td rowspan="2">ø22.2</td></tr><tr><td>ø12.7</td></tr></table>		Model	Piping Diameter (mm)		Liquid pipe	Gas pipe	$L \leq 60\text{m}$	ø9.52	ø22.2	$L > 60\text{m}$	ø12.7	Total capacity of indoor units	Liquid pipe (mm)		Gas pipe (mm)	$L \leq 60\text{m}$	$L > 60\text{m}$	Up to16.0kW	ø9.52	ø12.7	ø15.88	ø12.7	16.1 to 29.1kW	ø9.52	ø12.7	ø19.05	ø12.7	Model number	Piping Diameter (mm)		Liquid Pipe	Gas Pipe	50 or lower	ø6.35	ø12.7	ø9.52	63 to 140	ø9.52	ø15.88	ø12.7	200	ø9.52	ø19.05	ø12.7	250	ø9.52	ø22.2	ø12.7
Model	Piping Diameter (mm)																																																	
	Liquid pipe	Gas pipe																																																
$L \leq 60\text{m}$	ø9.52	ø22.2																																																
$L > 60\text{m}$	ø12.7																																																	
Total capacity of indoor units	Liquid pipe (mm)		Gas pipe (mm)																																															
	$L \leq 60\text{m}$	$L > 60\text{m}$																																																
Up to16.0kW	ø9.52	ø12.7	ø15.88																																															
	ø12.7																																																	
16.1 to 29.1kW	ø9.52	ø12.7	ø19.05																																															
	ø12.7																																																	
Model number	Piping Diameter (mm)																																																	
	Liquid Pipe	Gas Pipe																																																
50 or lower	ø6.35	ø12.7																																																
	ø9.52																																																	
63 to 140	ø9.52	ø15.88																																																
	ø12.7																																																	
200	ø9.52	ø19.05																																																
	ø12.7																																																	
250	ø9.52	ø22.2																																																
	ø12.7																																																	
		Note: When connecting the CONNECTION KIT (PAC-LV11M-J) and an M-series indoor unit, refer to the installation manual for the CONNECTION KIT when selecting the pipe size and piping length.																																																

Header-Branch Method Connection Examples (Connecting to 4 Indoor Units)



Permissible Length	Total Piping Length	A+a+b+c+d ≤ 150 m																											
	Farthest Piping Length (L)	A+d ≤ 80 m																											
	Farthest Piping Length After First Branch (ℓ)	d is 30 meters or less																											
Permissible High/Low Difference	High/Low Difference in Indoor/Outdoor Section (H)	50 meters or less (If the outdoor unit is lower, 40 meters or less)																											
	High/Low Difference in Indoor/Indoor Section (h)	15 meters or less																											
■ Selecting the Refrigerant Branch Kit		Please select branching kit, which is sold separately, from the table below. (The kit comprises sets for use with liquid pipes and for use with gas pipes.)																											
		<table><tr><td>Branch header (4 branches)</td><td>Branch header (8 branches)</td></tr><tr><td>CMY-Y64-G-E</td><td>CMY-Y68-G-E</td></tr></table>			Branch header (4 branches)	Branch header (8 branches)	CMY-Y64-G-E	CMY-Y68-G-E																					
Branch header (4 branches)	Branch header (8 branches)																												
CMY-Y64-G-E	CMY-Y68-G-E																												
■ Select Each Section of Refrigerant Piping		(1) Refrigerant Piping Diameter In Section From Outdoor Unit to First Branch (Outdoor Unit Piping Diameter)																											
(1) Section From Outdoor Unit to First Branch (A)		<table><tr><th rowspan="2">Model</th><th colspan="2">Piping Diameter (mm)</th></tr><tr><th>Liquid pipe</th><th>Gas pipe</th></tr><tr><td>L ≤ 60m</td><td>ø9.52</td><td rowspan="2">ø22.2</td></tr><tr><td>L > 60m</td><td>ø12.7</td></tr></table>			Model	Piping Diameter (mm)		Liquid pipe	Gas pipe	L ≤ 60m	ø9.52	ø22.2	L > 60m	ø12.7															
Model	Piping Diameter (mm)																												
	Liquid pipe				Gas pipe																								
L ≤ 60m	ø9.52	ø22.2																											
L > 60m	ø12.7																												
(2) Sections From Branch to Indoor Unit (a,b,c,d)		(2) Refrigerant Piping Diameter In Section From Branch to Indoor Unit (Indoor Unit Piping Diameter)																											
Select the size from the table to the right.		<table><tr><th rowspan="2">Model number</th><th colspan="2">Piping Diameter (mm)</th></tr><tr><th>Liquid Pipe</th><th>Gas Pipe</th></tr><tr><td rowspan="2">50 or lower</td><td>ø6.35</td><td>ø12.7</td></tr><tr><td>ø9.52</td><td>ø15.88</td></tr><tr><td rowspan="2">63 to 140</td><td>ø9.52</td><td>ø19.05</td></tr><tr><td>ø12.7</td><td>ø22.2</td></tr><tr><td rowspan="2">200</td><td>ø15.88</td><td>ø19.05</td></tr><tr><td>ø19.05</td><td>ø22.2</td></tr><tr><td rowspan="2">250</td><td>ø22.2</td><td>ø25.4</td></tr><tr><td>ø25.4</td><td>ø28.6</td></tr></table>			Model number	Piping Diameter (mm)		Liquid Pipe	Gas Pipe	50 or lower	ø6.35	ø12.7	ø9.52	ø15.88	63 to 140	ø9.52	ø19.05	ø12.7	ø22.2	200	ø15.88	ø19.05	ø19.05	ø22.2	250	ø22.2	ø25.4	ø25.4	ø28.6
Model number	Piping Diameter (mm)																												
	Liquid Pipe	Gas Pipe																											
50 or lower	ø6.35	ø12.7																											
	ø9.52	ø15.88																											
63 to 140	ø9.52	ø19.05																											
	ø12.7	ø22.2																											
200	ø15.88	ø19.05																											
	ø19.05	ø22.2																											
250	ø22.2	ø25.4																											
	ø25.4	ø28.6																											
		Note: When connecting the CONNECTION KIT (PAC-LV11M-J) and an M-series indoor unit, refer to the installation manual for the CONNECTION KIT when selecting the pipe size and piping length.																											

Method of Combined Branching of Lines and Headers Connection Examples (Connecting to 5 Indoor Units)



- (A) Outdoor unit
- (B) First branching (branching joint)
- (C) Branching joint
- (D) Indoor unit
- (E) Branching header
- (F) Blind caps

Permissible Length	Total Piping Length	A+B+C+a+b+c+d+e is 150 meters or less
	Farthest Piping Length (L)	A+B+b is 80 meters or less
	Farthest Piping Length After First Branch (ℓ)	B+b is 30 meters or less
Permissible High/Low Difference	High/Low Difference in Indoor/Outdoor Section (H)	50 meters or less (If the outdoor unit is lower, 40 meters or less)
	High/Low Difference in Indoor/Indoor Section (h)	15 meters or less

■ Selecting the Refrigerant Branch Kit

Please select branching kit, which is sold separately, from the table below.
(The kit comprises sets for use with liquid pipes and for use with gas pipes.)

Branch Joint	Branch header (4 branches)	Branch header (8 branches)
CMY-Y62-G-E	CMY-Y64-G-E	CMY-Y68-G-E

■ Select Each Section of Refrigerant Piping

- (1) Section From Outdoor Unit to First Branch (A)
- (2) Sections From Branch to Indoor Unit (a,b,c,d,e)
- (3) Section From Branch to Branch (B,C)

Select the size from the table to the right.

- (1) Refrigerant Piping Diameter In Section From Outdoor Unit to First Branch (Outdoor Unit Piping Diameter)

	Piping Diameter (mm)	
	Liquid pipe	Gas pipe
$L \leq 60\text{m}$	$\phi 9.52$	$\phi 22.2$
$L > 60\text{m}$	$\phi 12.7$	

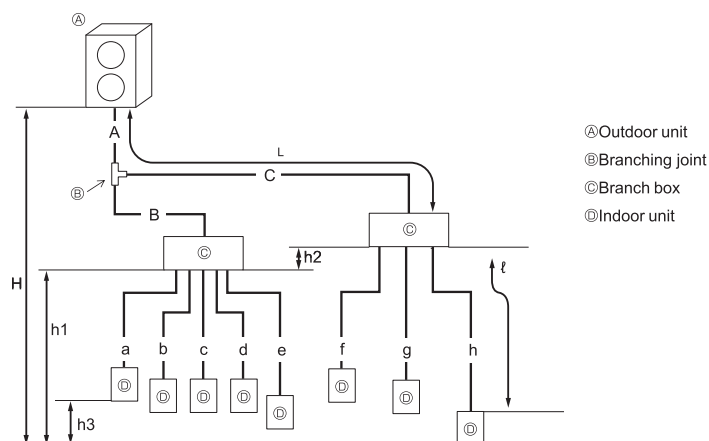
- (2) Refrigerant Piping Diameter In Section From Branch to Indoor Unit (Indoor Unit Piping Diameter)

Model number	Piping Diameter (mm)	
	Liquid Pipe	Gas Pipe
50 or lower	$\phi 6.35$	$\phi 12.7$
	$\phi 9.52$	$\phi 15.88$
63 to 140	$\phi 9.52$	$\phi 15.88$
	$\phi 12.7$	$\phi 19.05$
200	$\phi 9.52$	$\phi 19.05$
	$\phi 12.7$	$\phi 22.2$
250	$\phi 9.52$	$\phi 22.2$
	$\phi 12.7$	$\phi 22.2$

- (3) Refrigerant Piping Diameter In Section From Branch to Branch

Total capacity of indoor units	Piping Diameter (mm)	
	Liquid pipe (mm)	Gas pipe (mm)
Up to 16.0kW	$L \leq 60\text{m}$	$\phi 9.52$
	$L > 60\text{m}$	$\phi 12.7$
16.1 to 29.1kW	$L \leq 60\text{m}$	$\phi 9.52$
	$L > 60\text{m}$	$\phi 12.7$

Note: When connecting the CONNECTION KIT (PAC-LV11M-J) and an M-series indoor unit, refer to the installation manual for the CONNECTION KIT when selecting the pipe size and piping length.

Branch box MethodConnection Examples
(Connecting to 8 Indoor Units)

Permissible length (One-way)	Total piping length	$A + B + C + a + b + c + d + e + f + g + h \leq 150 \text{ m}$
	Farthest piping length	$A + C + h \leq 80 \text{ m}$
	Piping length between outdoor unit and branch boxes	$A + B + C \leq 55 \text{ m}$
	Farthest piping length after branch box (l)	$l \leq 25 \text{ m}$
	Total piping length between branch boxes and indoor units	$a + b + c + d + e + f + g + h \leq 95 \text{ m}$
Permissible height difference (One-way)	In indoor/outdoor section (H)*1	$H \leq 50 \text{ m}$ (In the case of that outdoor unit is set higher than indoor unit) $H \leq 40 \text{ m}$ (In the case of that outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h_1)	$h_1 + h_2 \leq 15 \text{ m}$
	In each branch unit (h_2)	$h_2 \leq 15 \text{ m}$
	In each indoor unit (h_3)	$h_3 \leq 12 \text{ m}$
Number of bends		≤ 15

*1 Branch box should be placed within the level between the outdoor unit and indoor units.

■ Select Each Section of Refrigerant Piping

- (1) Section From Outdoor Unit to Branch box (A, B, C)
- (2) Sections From Branch box to Indoor Unit (a to h)
- Each Section of Piping

Select the size from the table to the right.

(1) Refrigerant Piping Diameter In Section From Outdoor Unit to First Branch (Outdoor Unit Piping Diameter)

	Piping Diameter (mm)		Total capacity of indoor units	Liquid pipe (mm)		Gas pipe (mm)
	Liquid pipe	Gas pipe				
L ≤ 20m	ø9.52	ø22.2	Up to 16.0kW	L ≤ 20m	ø9.52	ø15.88
L > 20m	ø12.7			L > 20m	ø12.7	
L: The farthest piping length for the main pipes from the			16.1 to 29.1kW	L ≤ 20m	ø9.52	ø19.05
				L > 20m	ø12.7	

L: The farthest piping length for the main pipes from the outdoor unit to the branch box.

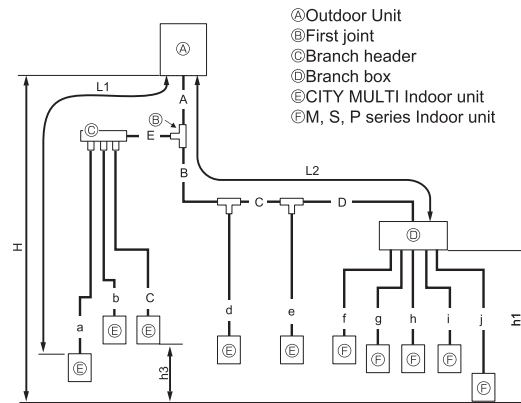
(2) Refrigerant Piping Diameter In Section From Branch box to Indoor Unit (Indoor Unit Piping Diameter)

Indoor unit series	Model number			Liquid pipe (mm)	Gas pipe (mm)
	kW	Btu	cal		
M series	- 35	- 15	- 32	$\phi 6.35$	$\phi 9.52$
	50	18 - 20	-		$\phi 12.7$
	60	-	50		$\phi 15.88$
	71 -	24 -	63 -	$\phi 9.52$	$\phi 15.88$
S series	- 35	-13	-	$\phi 6.35$	$\phi 9.52$
	50	18	-		$\phi 12.7$
	60	24	-		$\phi 15.88$
	71 -	26 -	-	$\phi 9.52$	$\phi 15.88$
P series	- 50	- 18	-	$\phi 6.35$	$\phi 12.7$
	60 -	24 -	-	$\phi 9.52$	$\phi 15.88$

Note: When using 35, 50 type indoor unit of P series, use the flare nut attached to the indoor unit. Do not use the flare nut in the indoor unit accessory. If it is used, a gas leakage or even a pipe extraction may occur.

Mixed Method

Connection Examples
(Connecting to 1 Branch box)



Permissible length (One-way)	Total piping length	$A+B+C+D+E+a+b+c+d+e+f+g+h+i+j \leq 150 \text{ m}$
	Farthest piping length (L1)	$A+E+a \text{ or } A+B+C+e \leq 80 \text{ m}$
	Farthest piping length. Via Branch box	$A+B+C+D+j \leq 80 \text{ m}$
	Piping length between outdoor unit and branch box	$A+B+C+D \leq 55 \text{ m}$
	Farthest piping length from the first joint	$B+C+D \text{ or } B+C+e \leq 30 \text{ m}$
	Farthest piping length after branch box	$j \leq 25 \text{ m}$
	Total piping length between branch boxes and indoor units	$f+g+h+i+j \leq 95 \text{ m}$
Permissible height difference (One-way)	In indoor/outdoor section (H)*1	$H \leq 50 \text{ m}$ (In the case of outdoor unit is set higher than indoor unit) $H \leq 40 \text{ m}$ (In the case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	$h1 \leq 15 \text{ m}$
	In each indoor unit (h3)	$h3 \leq 12 \text{ m}$
Number of bends		≤ 15

*1 Branch box should be placed within the level between the outdoor unit and indoor units.

■ Selecting the Refrigerant Branch Kit

Please select branching kit, which is sold separately, from the table below.
(The kit comprises sets for use with liquid pipes and for use with gas pipes.)

Branch header (4 branches)	Branch header (8 branches)
CMY-Y64-G-E	CMY-Y68-G-E

■ Select Each Section of Refrigerant Piping

- (1) Section From Outdoor Unit to Branch box or Branch header (A to E)
- (2) Sections From Branch box or Branch header to Indoor Unit (a to j)
- Each Section of Piping

Select the size from the table to the right.

- (1) Refrigerant Piping Diameter In Section From Outdoor Unit to Branch box or Branch header (Outdoor Unit Piping Diameter)

	Piping Diameter (mm)	
	Liquid pipe	Gas pipe
$L1 \leq 60\text{m}$ and $L2 \leq 20\text{m}$	$\phi 9.52$	$\phi 22.2$
$L1 > 60\text{m}$ or $L2 > 20\text{m}$	$\phi 12.7$	$\phi 22.2$

B to E

Total capacity of indoor units	Liquid pipe (mm)		Gas pipe (mm)
Up to 16.0kW	$L1 \leq 60\text{m}$ and $L2 \leq 20\text{m}$	$\phi 9.52$	$\phi 15.88$
	$L1 > 60\text{m}$ or $L2 > 20\text{m}$	$\phi 12.7$	
16.1 to 29.1kW	$L1 \leq 60\text{m}$ and $L2 \leq 20\text{m}$	$\phi 9.52$	$\phi 19.05$
	$L1 > 60\text{m}$ or $L2 > 20\text{m}$	$\phi 12.7$	

L1: The farthest piping length from the outdoor unit to an indoor unit.

L2: The farthest piping length for the main pipes from the outdoor unit to the branch box.

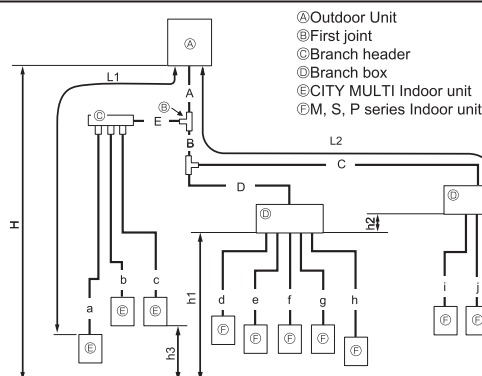
- (2) Refrigerant Piping Diameter In Section From Branch box or Branch header to Indoor Unit (Indoor Unit Piping Diameter)

Indoor unit series	Model number			Liquid pipe (mm)	Gas pipe (mm)
	kW	Btu	cal		
City Multi	- 50	-	-	$\phi 6.35$	$\phi 12.7$
	63 - 140	-	-	$\phi 9.52$	$\phi 15.88$
	200	-	-		$\phi 19.05$
	250	-	-		$\phi 22.2$
M series	- 35	- 15	- 32	$\phi 6.35$	$\phi 9.52$
	50	18 - 20	-		$\phi 12.7$
	60	-	50		$\phi 15.88$
	71 -	24 -	63 -	$\phi 9.52$	$\phi 15.88$
S series	- 35	-13	-	$\phi 6.35$	$\phi 9.52$
	50	18	-		$\phi 12.7$
	60	24	-		$\phi 15.88$
	71 -	26 -	-	$\phi 9.52$	$\phi 15.88$
P series	- 50	- 18	-	$\phi 6.35$	$\phi 12.7$
	60 -	24 -	-	$\phi 9.52$	$\phi 15.88$

Note:

When connecting the CONNECTION KIT (PAC-LV11M-J) and an M-series indoor unit, refer to the installation manual for the CONNECTION KIT when selecting the pipe size and piping length.

Mixed Method Connection Examples (Connecting to 2 Branch boxes)



Permissible length (One-way)	Total piping length	$A+B+C+D+E+a+b+c+d+e+f+g+h+i+j+k \leq 150 \text{ m}$
	Farthest piping length (L1)	$A+E+a \leq 80 \text{ m}$
	Farthest piping length. Via Branch box	$A+B+C+k \leq 80 \text{ m}$
	Piping length between outdoor unit and branch boxes	$A+B+C+D \leq 55 \text{ m}$
	Farthest piping length from the first joint	$B+C \text{ or } E+a \leq 30 \text{ m}$
	Farthest piping length after branch box	$k \leq 25 \text{ m}$
	Farthest branch box from outdoor unit	$A+B+C \leq 55 \text{ m}$
	Total piping length between branch boxes and indoor units	$d+e+f+g+h+i+j+k \leq 95 \text{ m}$
Permissible height difference (One-way)	In indoor/outdoor section (H)*1	$H \leq 50 \text{ m}$ (In the case of outdoor unit is set higher than indoor unit) $H \leq 40 \text{ m}$ (In the case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	$h1+h2 \leq 15 \text{ m}$
	In each branch unit (h2)	$h2 \leq 15 \text{ m}$
	In each indoor unit (h3)	$h3 \leq 12 \text{ m}$
Number of bends		≤ 15

*1 Branch box should be placed within the level between the outdoor unit and indoor units.

■ Selecting the Refrigerant Branch Kit

Please select branching kit, which is sold separately, from the table below.
(The kit comprises sets for use with liquid pipes and for use with gas pipes.)

Branch header (4 branches)	Branch header (8 branches)
CMY-Y64-G-E	CMY-Y68-G-E

■ Select Each Section of Refrigerant Piping

- (1) Section From Outdoor Unit to Branch box or Branch header (A to E)
- (2) Sections From Branch box or Branch header to Indoor Unit (a to k)

Each Section of Piping

Select the size from the table to the right.

- (1) Refrigerant Piping Diameter In Section From Outdoor Unit to Branch box or Branch header (Outdoor Unit Piping Diameter)

	Piping Diameter (mm)	
	Liquid pipe	Gas pipe
$L1 \leq 60 \text{ m}$ and $L2 \leq 20 \text{ m}$	$\phi 9.52$	$\phi 22.2$
$L1 > 60 \text{ m}$ or $L2 > 20 \text{ m}$	$\phi 12.7$	

B to E

Total capacity of indoor units	Liquid pipe (mm)		Gas pipe (mm)
Up to 16.0kW	$L1 \leq 60 \text{ m}$ and $L2 \leq 20 \text{ m}$	$\phi 9.52$	$\phi 15.88$
	$L1 > 60 \text{ m}$ or $L2 > 20 \text{ m}$	$\phi 12.7$	
16.1 to 29.1kW	$L1 \leq 60 \text{ m}$ and $L2 \leq 20 \text{ m}$	$\phi 9.52$	$\phi 19.05$
	$L1 > 60 \text{ m}$ or $L2 > 20 \text{ m}$	$\phi 12.7$	

L1: The farthest piping length from the outdoor unit to an indoor unit.

L2: The farthest piping length for the main pipes from the outdoor unit to the branch box.

- (2) Refrigerant Piping Diameter In Section From Branch box or Branch header to Indoor Unit (Indoor Unit Piping Diameter)

Indoor unit series	Model number			Liquid pipe (mm)	Gas pipe (mm)
	kW	Btu	cal		
City Multi	- 50	-	-	$\phi 9.52$	$\phi 12.7$
	63 - 140	-	-		$\phi 15.88$
	200	-	-		$\phi 19.05$
	250	-	-		$\phi 22.2$
M series	- 35	- 15	- 32	$\phi 6.35$	$\phi 9.52$
	50	18 - 20	-		$\phi 12.7$
	60	-	50		$\phi 15.88$
	71 -	24 -	63 -		$\phi 15.88$
S series	- 35	-13	-	$\phi 6.35$	$\phi 9.52$
	50	18	-		$\phi 12.7$
	60	24	-		$\phi 15.88$
	71 -	26 -	-		$\phi 15.88$
P series	- 50	- 18	-	$\phi 6.35$	$\phi 12.7$
	60 -	24 -	-	$\phi 9.52$	$\phi 15.88$

Note:

When connecting the CONNECTION KIT (PAC-LV11M-J) and an M-series indoor unit, refer to the installation manual for the CONNECTION KIT when selecting the pipe size and piping length.

12-3. Refrigerant charging calculation

Additional refrigerant charge

Refrigerant for the extended piping is not included in the outdoor unit when the unit is shipped from the factory. Therefore, charge each refrigerant piping system with additional refrigerant at the installation site. In addition, in order to carry out service, enter the size and length of each liquid pipe and additional refrigerant charge amounts in the spaces provided on the "Refrigerant amount" plate on the outdoor unit.

Calculation of additional refrigerant charge

- Calculate the additional charge using the liquid pipe size and length of the extended piping and total capacity of connected indoor units.
- Calculate the additional refrigerant charge using the procedure shown to the right, and charge with the additional refrigerant.
- For amounts less than 0.1 kg, round up the calculated additional refrigerant charge.
(For example, if the calculated charge is 6.01 kg, round up the charge to 6.1 kg.)

<Additional Charge>

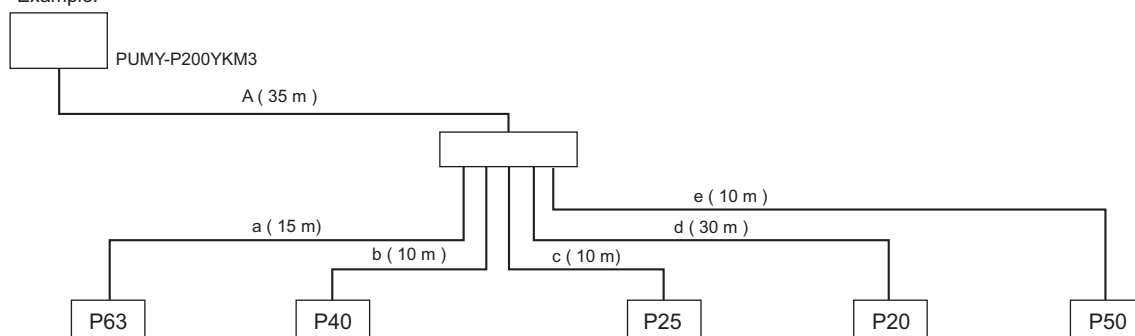
Calculation of refrigerant charge

Pipe size Liquid pipe ø6.35	+	Pipe size Liquid pipe ø9.52	+	Pipe size Liquid pipe ø12.7	+	Total capacity of connected indoor units	Amount for the indoor units
(m) x 19.0 (g/m)		(m) x 50.0 (g/m)		(m) x 92.0 (g/m)		–16.0kW	2.5kg
						16.1–25.0kW	3.0kg
						25.1kW–	3.5kg

Included refrigerant amount when shipped from the factory

Included refrigerant amount	
PUMY-P	PUMY-CP
7.3kg	6.3kg

Example:



<Example>

Outdoor model: P200

Indoor 1: P63 (7.1kW)

2: P40 (4.5kW)

3: P25 (2.8kW)

4: P20 (2.2kW)

5: P50 (5.6kW)

A: ø12.7 35 m

a: ø9.52 15 m

b: ø6.35 10 m

c: ø6.35 10 m

d: ø6.35 30 m

e: ø6.35 10 m

<Calculation example>

Additional refrigerant charge

$$60 \times \frac{19.0}{1000} + 15 \times \frac{50.0}{1000} + 35 \times \frac{92.0}{1000} + 3.0 = 8.2\text{kg (rounded up)}$$

The total length of each liquid line is as follows:

ø12.7: A = 35 m

ø9.52: a = 15 m

ø6.35: b + c + d + e = 10 + 10 + 30 + 10 = 60 m

The total capacity of connected indoor unit is as follows:

$$7.1 + 4.5 + 2.8 + 2.2 + 5.6 = 22.2$$

Maximum refrigerant charge

There is a limit to the amount of refrigerant that can be charged into a unit. Regardless of the amount yielded by the formula above, observe the maximum refrigerant charge in the table below.

Total index of the outdoor units			P175YKM3	P200YKM3	P225YKM3	CP175YKM2	CP200YKM2	CP225YKM2
Maximum refrigerant charge	Factory charged	kg	7.3	7.3	7.3	6.3	6.3	6.3
	Charged on site	kg	13.1	13.1	13.1	13.1	13.1	13.1
	Total for system	kg	20.4	20.4	20.4	19.4	19.4	19.4

*1 Maximum refrigerant charge: the amount of factory-charged refrigerant and the amount of refrigerant to be added on site

13-1. Requirement on installation site

13-1-1. General caution

- A. Avoid locations exposed to direct sunlight or other sources of heat.
- B. Select a location from which noise emitted by the unit will not inconvenience the neighbors.
- C. Select a location permitting easy wiring and pipe access to the power source and indoor unit.
- D. Avoid locations where combustible gases may leak, be produced, flow, or accumulate.
- E. Note that water may drain from the unit during operation.
- F. Select a level location that can bear the weight and vibration of the unit.
- G. Avoid locations where the unit can be covered by snow. In areas where heavy snow fall is anticipated, special precautions such as raising the installation location or installing a hood on the air intake must be taken to prevent the snow from blocking the air intake or blowing directly against it. This can reduce the airflow and a malfunction may result.
- H. Avoid locations exposed to oil, steam, or sulfuric gas.
- I. Use the transportation handles of the outdoor unit to transport the unit. If the unit is carried from the bottom, hands or fingers may be pinched.

13-1-2. Installation at windy location.

When installing the outdoor unit on a rooftop or other location unprotected from the wind, situate the air outlet of the unit so that it is not directly exposed to strong winds. Strong wind entering the air outlet may impede the normal airflow and a malfunction may result.

The following shows two examples of precautions against strong winds.

- ① Install an optional air protect guide if the unit is installed in a location where strong winds from a typhoon, etc. may directly enter the air outlet. (Fig. 13-1-2a)
- ② Position the unit so that the air outlet blows perpendicularly to the seasonal wind direction, if possible. (Fig. 13-1-2b)

- PUMY-P175, 200, 225YKM3-PA, DA(-BS)
- PUMY-CP175, 200, 225YKM2-PA, TH, DA(-BS)

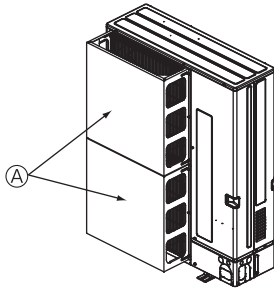


Fig. 13-1-2a

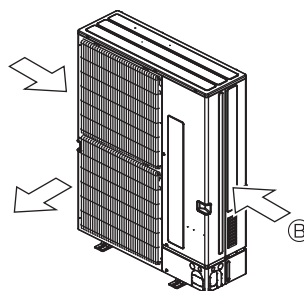


Fig. 13-1-2b

13-1-3. Foundation

- A. Be sure to install the unit in a sturdy, level surface to prevent rattling noises during operation. (see Fig. 13-1-3)
- B. Foundation specifications are as follows.

mm [in.]			
Thickness of concrete	Weight-bearing capacity	Foundation bolt	Bolt length
120 [4-3/4"]	320 kg [706lbs]	M10 [3/8"]	70 [2-25/32"]

- C. Make sure that the length of the foundation bolt is within 30 mm [1-3/16"] of the bottom surface of the base.
- D. Secure the base of the unit firmly with four-M10 [3/8"] foundation bolts in sturdy locations.

⚠ Warning:

- A. The foundation base should be strong enough to support the outdoor unit, otherwise, it may fall down and cause damage or injuries.
- B. The unit must be installed according to the instructions in order to minimize the risk of damage from earthquakes, typhoons, or strong winds.

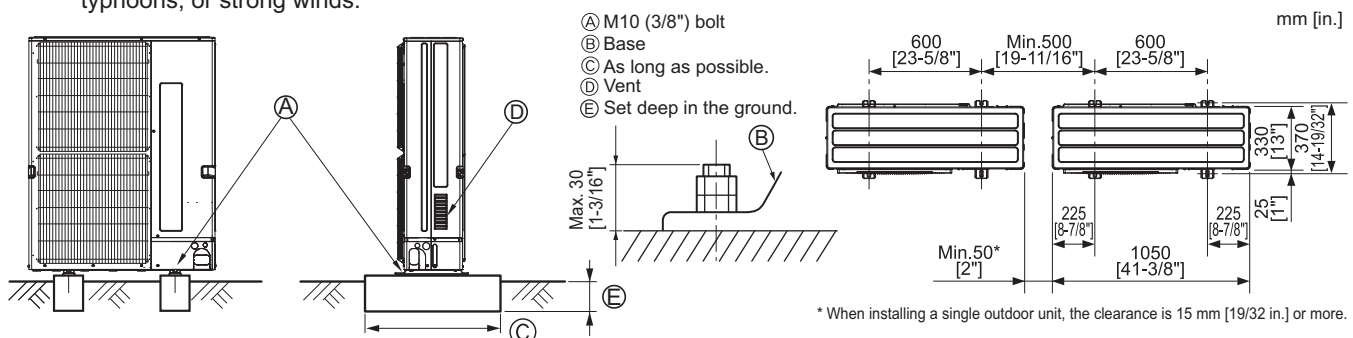


Fig. 13-1-3

13-2. Spacing

PUMY-P-YKM3/PUMY-CP-YKM2

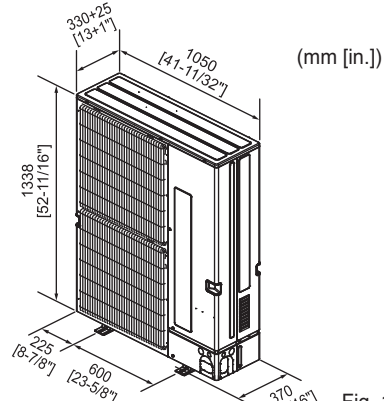
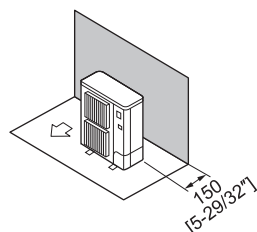
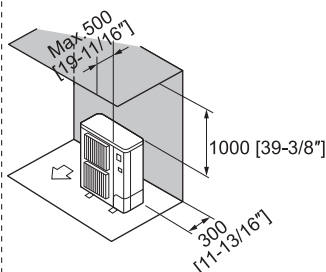
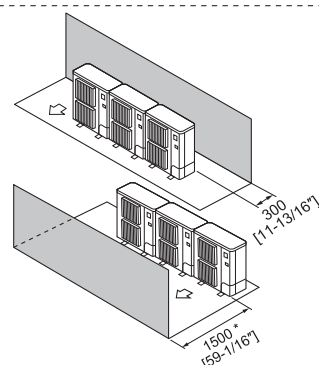
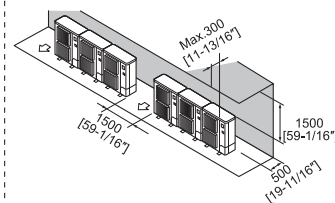
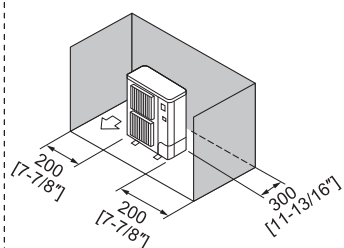
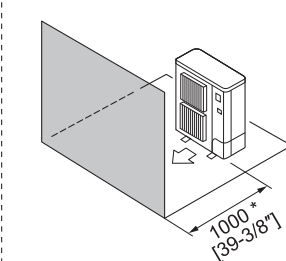
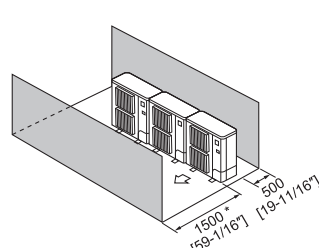
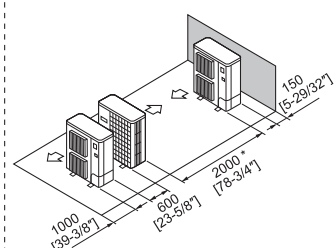
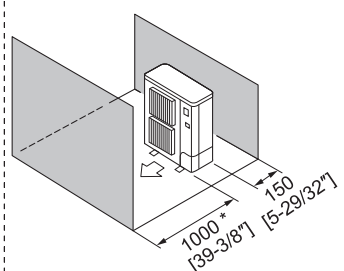


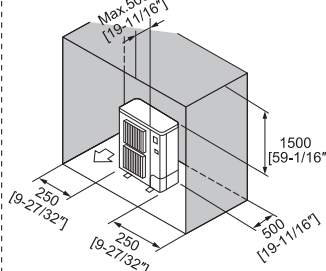
Fig. 13-2-1

13-2-1. Spacing individual PUMY-P-YKM3/PUMY-CP-YKM2

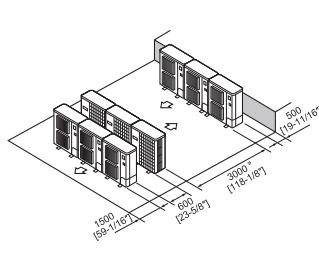
Follow Fig. 13-2-2~7 to space individual PUMY-P-YKM3/PUMY-CP-YKM2 at the installation site. mm[in.]

Fig. 13-2-2
Obstacles at rear onlyFig. 13-2-3
Obstacles at rear and above onlyFig. 13-2-8
Obstacles at rear or front onlyFig. 13-2-9
Obstacles at rear and above onlyFig. 13-2-4
Obstacles at rear and sides onlyFig. 13-2-5
Obstacles at front onlyFig. 13-2-10
Obstacles at front and rear onlyFig. 13-2-11
Parallel individuals arrangement

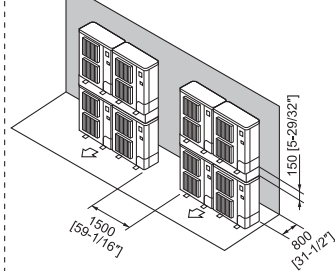
* Using an optional air outlet guide, the clearance ≥ 500 mm [19-11/16].

Fig. 13-2-6
Obstacles at front and rear only

* NO upward airflow outlet guide.

Fig. 13-2-7
Obstacles at rear, sides and above only

* Using an optional air outlet guide for upward airflow, the clearance ≥ 1500 mm [59-1/16].

Fig. 13-2-12
Parallel groups arrangement

* Stacked layer ≤ 2 units;
* Side-by-side stacked groups ≤ 2 groups;

Fig. 13-2-13
Stacked groups arrangement

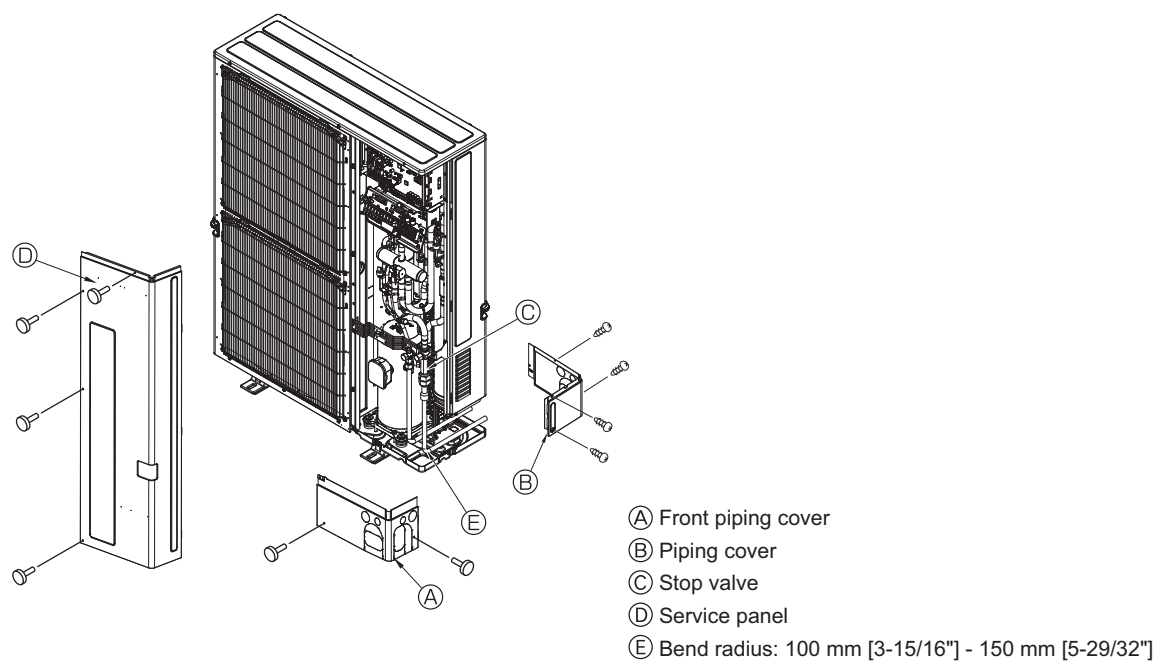
The upper limit of capacity of indoor unit, the numbers of indoor units and total capacity of indoor units are vary as the capacity of the outdoor unit.

Connectable Indoor capacity		Connectable Indoor unit
PUMY-P175YKM3-PA,DA(-BS)	P88-P227	P15-P200, 1-12 units
PUMY-CP175YKM2-PA,TH,DA(-BS)		
PUMY-P200YKM3-PA,DA(-BS)	P100-P260	P15-P250, 1-12 units
PUMY-CP200YKM2-PA,TH,DA(-BS)		
PUMY-P225YKM3-PA,DA(-BS)	P113-P292	P15-P250, 1-12 units
PUMY-CP225YKM2-PA,TH,DA(-BS)		

13-2-2. Spacing grouped PUMY-P-YKM3/PUMY-CP-YKM2

Follow Fig. 13-2-8~13 to space grouped PUMY-P-YKM3/PUMY-CP-YKM2 at the installation site. Leave 25 mm space or more between PUMY-P-YKM3/PUMY-CP-YKM2 units. mm[in.]

13-3. Piping direction



⚠ Warning

- Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
 - Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, repair, or at the time of disposal of the unit.
 - It may also be in violation of applicable laws.
 - MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.
- Our air conditioning equipment and heat pumps contain a fluorinated greenhouse gas, R410A.

mitsubishi **ELECTRIC CORPORATION**

www.MitsubishiElectric.com