

OUTDOOR UNITS

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1. SPECIFICATIONS

DATA G6

Model		PURY-EP200YHM-A(-BS)		PURY-EP250YHM-A(-BS)		
Power source		3-phase 4-wire 380-400-415V 50/60Hz				
Cooling capacity (Nominal)	*1	kW	22.4	28.0		
	*1	kcal / h	19,300	24,100		
	*1	Btu / h	76,400	95,500		
	*2	kcal / h	20,000	25,000		
	Power input	kW	5.23	6.86		
Current input	A	8.8-8.3-8.0	11.5-11.0-10.6			
	COP	kW / kW	4.28	4.08		
	Temp. range of cooling *4		Indoor	W.B. 15 to 24degC(59 to 75degF)		
		Outdoor	D.B. -5 to 43degC(23 to 109degF)			
Heating capacity (Nominal)	*3	kW	25.0	31.5		
	*3	kcal / h	21,500	27,100		
	*3	Btu / h	85,300	107,500		
	Power input	kW	5.81	7.60		
	Current input	A	9.8-9.3-8.9	12.8-12.1-11.7		
COP		kW / kW	4.30	4.14		
Temp. range of heating *4	Indoor temp.	D.B.	15 to 27degC(59 to 81degF)			
	Outdoor temp.	W.B.	-20 to 15.5degC(-4 to 60degF)			
Indoor unit connectable	Total capacity		50 to 150 % of outdoor unit capacity			
	Model / Quantity		P15 to P250 / 1 to 20	P15 to P250 / 1 to 25		
Sound pressure level (measured in anechoic room)		dB <A>	57.0	60.0		
Diameter of refrigerant pipe	High pressure	mm(in.)	15.88(5/8) Brazed	19.05(3/4) Brazed		
	Low pressure	mm(in.)	19.05(3/4) Brazed	22.2(7/8) Brazed		
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>				
External dimension HxWxD	mm	1,710(1,650 without legs) x 920 x 760		1,710(1,650 without legs) x 1,220 x 760		
	in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16		67-3/8(65 without legs) x 48-1/16 x 29-15/16		
Net weight		kg(lb)	235(518)	265(584)		
Heat exchanger		Salt-resistant cross fin & copper tube				
Compressor	Type		Inverter scroll hermetic compressor			
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION			
	Starting method		Inverter			
	Motor output	kW	5.4	6.7		
	Case heater	kW	0.035(240 V)	0.045(240 V)		
	Lubricant		MEL32			
FAN	Air flow rate	m ³ / min	185	225		
		L/s	3,083	3,750		
		cfm	6,532	7,945		
	External static press.		*5	0 Pa (0 mmH ₂ O)		
	Type x Quantity		Propeller fan x 1			
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			
Motor output		kW	0.92			
HIC circuit (HIC: Heat Inter-Changer)		-				
Protection	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)			
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection			
	Compressor		Over-heat protection			
	Fan motor		Thermal switch			
Defrosting method		Auto-defrost mode (Reversed refrigerant circle)				
Refrigerant	Type x original charge		R410A x 10.5kg (24lb)	R410A x 11.8kg (26lb)		
	Control		Indoor LEV and BC controller			
Drawing	External		WKB94G547	WKB94T266		
	Wiring		WKB94C141	WKB94C320		
Standard attachment	Document		Installation Manual			
	Accessory		Details refer to External Drw			
Optional parts		joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J BC controller: CMB-P104, 105, 106V-G Main BC controller: CMB-P108, 1010, 1013, 1016V-GA Sub BC controller: CMB-P104, 108V-GB, CMB-P1016V-HB				
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.				

R2(HIGH COP)

Notes :	*1 Nominal cooling conditions	*2 Nominal cooling conditions	*3 Nominal heating conditions	Unit converter
Indoor :	27degCDB/19degCWB (81degFDB/66degFWB)	27degCDB/19.5degCWB (81degFDB/67degFWB)	20degCDB (68degFDB)	kcal =kW x 860
Outdoor :	35degCDB (95degFDB)	35degCDB (95degFDB)	7degCDB/6degCWB (45degFDB/43degFWB)	Btu/h =kW x 3,412
Pipe length :	7.5m(24-9/16ft.)	5m(16-3/8ft.)	7.5m(24-9/16ft.)	cfm =m ³ /min x 35.31
Level difference :	0m(0ft.)	0m(0ft.)	0m(0ft.)	lb =kg / 0.4536
*4 -5degC(23degF)DB/-6degC(21degF)WB to 21degC(70degF)DB/15.5degC(60degF)WB with cooling/heating mixed operation.				
* Nominal condition *1, *3 are subject to JIS B8615-1				
*5 External static pressure option is available (30Pa, 60Pa/3.1mmH ₂ O, 6.1mmH ₂ O)				
*Above specification data is subject to rounding variation.				

1. SPECIFICATIONS

Model			PURY-EP300YHM-A(-BS)		
Power source			3-phase 4-wire 380-400-415V 50/60Hz		
Cooling capacity (Nominal)	*1	kW	33.5		
	*1	kcal / h	28,800		
	*1	Btu / h	114,300		
	*2	kcal / h	30,000		
		Power input	kW	8.33	
	Current input	A	14.0-13.3-12.8		
	COP	kW / kW	4.02		
Temp. range of cooling *4	Indoor	W.B.	15 to 24degC(59 to 75degF)		
	Outdoor	D.B.	-5 to 43degC(23 to 109degF)		
Heating capacity (Nominal)	*3	kW	37.5		
	*3	kcal / h	32,300		
	*3	Btu / h	128,000		
		Power input	kW	9.37	
		Current input	A	15.8-15.0-14.4	
	COP	kW / kW	4.00		
Temp. range of heating *4	Indoor temp.	D.B.	15 to 27degC(59 to 81degF)		
	Outdoor temp.	W.B.	-20 to 15.5degC(-4 to 60degF)		
Indoor unit connectable	Total capacity	50 to 150 % of outdoor unit capacity			
	Model / Quantity	P15 to P250 / 1 to 30			
Sound pressure level (measured in anechoic room)		dB <A>	60		
Diameter of refrigerant pipe	High pressure	mm(in.)	19.05(3/4) Brazed		
	Low pressure	mm(in.)	22.2(7/8) Brazed		
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1>		
External dimension HxWxD	mm		1,710(1,650 without legs) x 1,220 x 760		
	in.		67-3/8(65 without legs) x 48-1/16 x 29-15/16		
Net weight	kg(lb)		265(584)		
Heat exchanger			Salt-resistant cross fin & copper tube		
Compressor	Type	Inverter scroll hermetic compressor			
	Manufacture	AC&R Works, MITSUBISHI ELECTRIC CORPORATION			
	Starting method	Inverter			
	Motor output	kW	8.0		
	Case heater	kW	0.045(240 V)		
	Lubricant	MEL32			
FAN	Air flow rate	m ³ / min	225		
		L/s	3,750		
		cfm	7,945		
	External static press.	*5	0 Pa (0 mmH ₂ O)		
	Type x Quantity	Propeller fan x 1			
	Control, Driving mechanism	Inverter-control, Direct-driven by motor			
Motor output	kW	0.92			
HIC circuit (HIC: Heat Inter-Changer)			-		
Protection	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)		
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection		
	Compressor		Over-heat protection		
	Fan motor		Thermal switch		
Defrosting method			Auto-defrost mode (Reversed refrigerant circle)		
Refrigerant	Type x original charge		R410A x 11.8kg (26lb)		
	Control		Indoor LEV and BC controller		
Drawing	External		WKB94T266		
	Wiring		WKE94C141		
Standard attachment	Document		Installation Manual		
	Accessory		Details refer to External Drw		
Optional parts			joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-R160-J BC controller: CMB-P104, 105, 106V-G Main BC controller: CMB-P108, 1010, 1013, 1016V-GA Sub BC controller: CMB-P104, 108V-GB, CMB-P1016V-HB		
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	*2 Nominal cooling conditions	*3 Nominal heating conditions	Unit converter
Indoor :	27degCDB/19degCWB (81degFDB/66degFWB)	27degCDB/19.5degCWB (81degFDB/67degFWB)	20degCDB (68degFDB)	kcal =kW x 860
Outdoor :	35degCDB (95degFDB)	35degCDB (95degFDB)	7 degCDB/6degCWB (45degFDB/43degFWB)	Btu/h =kW x 3,412
Pipe length :	7.5m(24-9/16ft.)	5m(16-3/8ft.)	7.5m(24-9/16ft.)	cfm =m ³ /min x 35.31
Level difference :	0m(0ft.)	0m(0ft.)	0m(0ft.)	lb =kg / 0.4536
*4 -5degC(23degF)DB/-6degC(21degF)WB to 21degC(70degF)DB/15.5degC(60degF)WB with cooling/heating mixed operation.				
* Nominal condition *1, *3 are subject to JIS B8615-1				
*5 External static pressure option is available (30Pa, 60Pa/3.1mmH ₂ O, 6.1mmH ₂ O)				
				*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Model		PURY-EP400YSHM-A(-BS)	
Power source		3-phase 4-wire 380-400-415V 50/60Hz	
Cooling capacity (Nominal)	*1 kW	45.0	
	*1 kcal / h	38,700	
	*1 Btu / h	153,500	
	*2 kcal / h	40,000	
	Power input kW	10.57	
	Current input A	17.8-16.9-16.3	
	COP kW / kW	4.25	
Temp. range of cooling *4	Indoor	W.B.	15 to 24degC(59 to 75degF)
	Outdoor	D.B.	-5 to 43degC(23 to 109degF)
Heating capacity (Nominal)	*3 kW	50.0	
	*3 kcal / h	43,000	
	*3 Btu / h	170,600	
	Power input kW	11.73	
	Current input A	19.8-18.8-18.1	
	COP kW / kW	4.26	
Temp. range of heating *4	Indoor temp.	D.B.	15 to 27degC(59 to 81degF)
	Outdoor temp.	W.B.	-20 to 15.5degC(-4 to 60degF)
Indoor unit connectable	Total capacity	50 to 150 % of outdoor unit capacity	
	Model / Quantity	P15 to P250 / 1 to 40	
Sound pressure level (measured in anechoic room)		dB <A>	60.0
Diameter of refrigerant pipe	High pressure	mm(in.)	22.2(7/8) Brazed
	Low pressure	mm(in.)	28.58(1-1/8) Brazed

Set Model

Model		PURY-EP200YHM-A(-BS)		PURY-EP200YHM-A(-BS)		
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type)<MUNSELL 5Y 8/1>				
External dimension HxWxD	mm	1,710(1,650 without legs) x 920 x 760		1,710(1,650 without legs) x 920 x 760		
	in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16		67-3/8(65 without legs) x 36-1/4 x 29-15/16		
Net weight	kg(lb)	235(518)		235(518)		
Heat exchanger		Salt-resistant cross fin & copper tube				
Compressor	Type	Inverter scroll hermetic compressor				
	Manufacture	AC&R Works, MITSUBISHI ELECTRIC CORPORATION				
	Starting method	Inverter		Inverter		
	Motor output kW	5.4		5.4		
	Case heater kW	0.035(240 V)		0.035(240 V)		
	Lubricant	MEL32				
FAN	Air flow rate	m ³ / min	185		185	
		L/s	3,083		3,083	
		cfm	6,532		6,532	
	External static press. *5	0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		
	Type x Quantity	Propeller fan x 1		Propeller fan x 1		
	Control, Driving mechanism	Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
Motor output kW	0.92		0.92			
HIC circuit (HIC: Heat Inter-Changer)						
Protection	High pressure protection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)				
	Inverter circuit (COMP. / FAN)	Over-heat protection, Over-current protection				
	Compressor	Over-heat protection				
	Fan motor	Thermal switch				
Defrosting method						
Auto-defrost mode (Reversed refrigerant circle)						
Refrigerant	Type x original charge	R410A x 10.5kg (24lb)		R410A x 10.5kg (24lb)		
	Control	Indoor LEV and BC controller				
Pipe between unit and distributor	High pressure mm(in.)	15.88(5/8)Brazed		15.88(5/8)Brazed		
	Low pressure mm(in.)	19.05(3/4)Brazed		19.05(3/4)Brazed		
Drawing	External	WKB94T267				
	Wiring	WKE94C141				
Standard attachment	Document	Installation Manual				
	Accessory	Details refer to External Drw				
Optional parts						
Outdoor Twinning kit: CMY-R100VBK joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-Y202-G2, CMY-R160-J Main BC controller: CMB-P108, 1010, 1013, 1016V-GA Sub BC controller: CMB-P104, 108V-GB, CMB-P1016V-HB						
Remarks		<p>* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</p> <p>* Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s.</p> <p>* The outdoor twinning kit(low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are of different capacities, the outdoor twinning kit(low pressure) should be installed in the unit with the largest capacity.</p> <p>* Due to continuing improvement, above specifications may be subject to change without notice.</p>				

Notes :	*1 Nominal cooling conditions	*2 Nominal cooling conditions	*3 Nominal heating conditions	Unit converter
Indoor :	27degCDB/19degCWB (81degFDB/66degFWB)	27degCDB/19.5degCWB (81degFDB/67degFWB)	20degCDB (68degFDB)	kcal =kW x 860
Outdoor :	35degCDB (95degFDB)	35degCDB (95degFDB)	7degCDB/6degCWB (45degFDB/43degFWB)	Btu/h =kW x 3,412
Pipe length :	7.5m(24-9/16ft.)	5m(16-3/8ft.)	7.5m(24-9/16ft.)	cfm =m ³ /min x 35.31
Level difference :	0m(0ft.)	0m(0ft.)	0m(0ft.)	lb =kg / 0.4536
*4 -5degC(23degF)DB/-6degC(21degF)WB to 21degC(70degF)DB/15.5degC(60degF)WB with cooling/heating mixed operation.				
* Nominal condition *1, *3 are subject to JIS B8615-1				
*5 External static pressure option is available (30Pa, 60Pa/3.1mmH ₂ O, 6.1mmH ₂ O)				
				*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Model			PURY-EP450YSHM-A1(-BS)	
Power source	3-phase 4-wire 380-400-415V 50/60Hz			
Cooling capacity (Nominal)	*1 kW	50.0		
	*1 kcal / h	43,000		
	*1 Btu / h	170,600		
	*2 kcal / h	45,000		
	Power input	kW	12.07	
Current input	A	20.3-19.3-18.6		
COP	kW / kW	4.14		
Temp. range of cooling *4	Indoor	W.B.	15 to 24degC(59 to 75degF)	
	Outdoor	D.B.	-5 to 43degC(23 to 109degF)	
Heating capacity (Nominal)	*3 kW	56.0		
	*3 kcal / h	48,200		
	*3 Btu / h	191,100		
	Power input	kW	13.23	
	Current input	A	22.3-21.2-20.4	
COP	kW / kW	4.23		
Temp. range of heating *4	Indoor temp.	D.B.	15 to 27degC(59 to 81degF)	
	Outdoor temp.	W.B.	-20 to 15.5degC(-4 to 60degF)	
Indoor unit connectable	Total capacity	50 to 150 % of outdoor unit capacity		
	Model / Quantity	P15 to P250 / 1 to 45		
Sound pressure level (measured in anechoic room)	dB <A>	62		
Diameter of refrigerant pipe	High pressure	mm(in.)	22.2(7/8) Brazed	
	Low pressure	mm(in.)	28.58(1-1/8) Brazed	

Set Model

Model			PURY-EP200YHM-A(-BS)	PURY-EP250YHM-A(-BS)
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type)<MUNSELL 5Y 8/1>	
External dimension HxWxD	mm	1,710(1,650 without legs) x 920 x 760		1,710(1,650 without legs) x 1,220 x 760
	in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16		67-3/8(65 without legs) x 48-1/16 x 29-15/16
Net weight	kg(lb)	235(518)		265(584)
Heat exchanger			Salt-resistant cross fin & copper tube	
Compressor	Type	Inverter scroll hermetic compressor		
	Manufacture	AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method	Inverter		
	Motor output	kW	5.4	6.7
	Case heater	kW	0.035(240 V)	0.045(240 V)
Lubricant	MEL32			
FAN	Air flow rate	m ³ / min	185	225
		L/s	3,083	3,750
		cfm	6,532	7,945
	External static press.	*5	0 Pa (0 mmH ₂ O)	
	Type x Quantity	Propeller fan x 1		Propeller fan x 1
	Control, Driving mechanism	Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor
Motor output	kW	0.92	0.92	
HIC circuit (HIC: Heat Inter-Changer)				
Protection	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	
	Fan motor		Thermal switch	
Defrosting method				
Auto-defrost mode (Reversed refrigerant circle)				
Refrigerant	Type x original charge	R410A x 10.5kg (24lb)		R410A x 11.8kg (26lb)
	Control	Indoor LEV and BC controller		
Pipe between unit and distributor	High pressure	mm(in.)	15.88(5/8)Brazed	19.05(3/4)Brazed
	Low pressure	mm(in.)	19.05(3/4)Brazed	22.2(7/8)Brazed
Drawing	External	WKB94T268		
	Wiring	WKE94C141		WKE94C320
Standard attachment	Document	Installation Manual		
	Accessory	Details refer to External Drw		
Optional parts				
Outdoor Twinning kit: CMY-R100VBK joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-Y202-G2, CMY-R160-J Main BC controller: CMB-P108, 1010, 1013, 1016V-GA Sub BC controller: CMB-P104, 108V-GB, CMB-P1016V-HB				
Remarks	<p>* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</p> <p>* Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s.</p> <p>* The outdoor twinning kit(low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are of different capacities, the outdoor twinning kit(low pressure) should be installed in the unit with the largest capacity.</p> <p>* Due to continuing improvement, above specifications may be subject to change without notice.</p>			

Notes :	*1 Nominal cooling conditions	*2 Nominal cooling conditions	*3 Nominal heating conditions	Unit converter
Indoor :	27degCDB/19degCWB (81degFDB/66degFWB)	27degCDB/19.5degCWB (81degFDB/67degFWB)	20degCDB (68degFDB)	kcal =kW x 860
Outdoor :	35degCDB (95degFDB)	35degCDB (95degFDB)	7degCDB/6degCWB (45degFDB/43degFWB)	Btu/h =kW x 3,412
Pipe length :	7.5m(24-9/16ft.)	5m(16-3/8ft.)	7.5m(24-9/16ft.)	cfm =m ³ /min x 35.31
Level difference :	0m(0ft.)	0m(0ft.)	0m(0ft.)	lb =kg / 0.4536
*4 -5degC(23degF)DB/-6degC(21degF)WB to 21degC(70degF)DB/15.5degC(60degF)WB with cooling/heating mixed operation.				
* Nominal condition *1, *3 are subject to JIS B8615-1				
*5 External static pressure option is available (30Pa, 60Pa/3.1mmH ₂ O, 6.1mmH ₂ O)				
				*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Model		PURY-EP500YSHM-A(-BS)	
Power source		3-phase 4-wire 380-400-415V 50/60Hz	
Cooling capacity (Nominal)	*1 kW	56.0	
	*1 kcal / h	48,200	
	*1 Btu / h	191,100	
	*2 kcal / h	50,000	
	Power input kW	13.70	
	Current input A	23.1-21.9-21.1	
	COP kW / kW	4.08	
Temp. range of cooling *4	Indoor	W.B.	15 to 24degC(59 to 75degF)
	Outdoor	D.B.	-5 to 43degC(23 to 109degF)
Heating capacity (Nominal)	*3 kW	63.0	
	*3 kcal / h	54,200	
	*3 Btu / h	215,000	
	Power input kW	15.33	
	Current input A	25.8-24.5-23.6	
	COP kW / kW	4.10	
Temp. range of heating *4	Indoor temp.	D.B.	15 to 27degC(59 to 81degF)
	Outdoor temp.	W.B.	-20 to 15.5degC(-4 to 60degF)
Indoor unit connectable	Total capacity	50 to 150 % of outdoor unit capacity	
	Model / Quantity	P15 to P250 / 1 to 50 (Connectable branch pipe number is max. 48.)	
Sound pressure level (measured in anechoic room)	dB <A>	62	
Diameter of refrigerant pipe	High pressure	mm(in.)	22.2(7/8) Brazed
	Low pressure	mm(in.)	28.58(1-1/8) Brazed

Set Model

Model		PURY-EP200YHM-A(-BS)		PURY-EP300YHM-A(-BS)		
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type)<MUNSELL 5Y 8/1>				
External dimension HxWxD	mm	1,710(1,650 without legs) x 920 x 760		1,710(1,650 without legs) x 1,220 x 760		
	in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16		67-3/8(65 without legs) x 48-1/16 x 29-15/16		
Net weight	kg(lb)	235(518)		265(584)		
Heat exchanger		Salt-resistant cross fin & copper tube				
Compressor	Type	Inverter scroll hermetic compressor				
	Manufacture	AC&R Works, MITSUBISHI ELECTRIC CORPORATION				
	Starting method	Inverter		Inverter		
	Motor output kW	5.4		8.0		
	Case heater kW	0.035(240 V)		0.045(240 V)		
	Lubricant	MEL32				
FAN	Air flow rate	m ³ / min	185		225	
		L/s	3,083		3,750	
		cfm	6,532		7,945	
	External static press. *5	0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		
	Type x Quantity	Propeller fan x 1		Propeller fan x 1		
	Control, Driving mechanism	Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
Motor output kW	0.92		0.92			
HIC circuit (HIC: Heat Inter-Changer)						
Protection	High pressure protection	High pressure sensor, High pressure switch at 4.15MPa (601 psi)				
	Inverter circuit (COMP. / FAN)	Over-heat protection, Over-current protection				
	Compressor	Over-heat protection				
	Fan motor	Thermal switch				
Defrosting method						
Auto-defrost mode (Reversed refrigerant circle)						
Refrigerant	Type x original charge	R410A x 10.5kg (24lb)		R410A x 11.8kg (26lb)		
	Control	Indoor LEV and BC controller				
Pipe between unit and distributor	High pressure mm(in.)	15.88(5/8)Brazed		19.05(3/4)Brazed		
	Low pressure mm(in.)	19.05(3/4)Brazed		22.2(7/8)Brazed		
Drawing	External	WKB94T268				
	Wiring	WKE94C141				
Standard attachment	Document	Installation Manual				
	Accessory	Details refer to External Drw				
Optional parts						
Outdoor Twinning kit: CMY-R100VBK joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-Y202-G2, CMY-R160-J Main BC controller: CMB-P108, 1010, 1013, 1016V-GA Sub BC controller: CMB-P104, 108V-GB, CMB-P1016V-HB						
Remarks		<p>* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</p> <p>* Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s.</p> <p>* The outdoor twinning kit(low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are of different capacities, the outdoor twinning kit(low pressure) should be installed in the unit with the largest capacity.</p> <p>* Due to continuing improvement, above specifications may be subject to change without notice.</p>				

Notes :	*1 Nominal cooling conditions	*2 Nominal cooling conditions	*3 Nominal heating conditions	Unit converter
Indoor :	27degCDB/19degCWB (81degFDB/66degFWB)	27degCDB/19.5degCWB (81degFDB/67degFWB)	20degCDB (68degFDB)	kcal =kW x 860
Outdoor :	35degCDB (95degFDB)	35degCDB (95degFDB)	7degCDB/6degCWB (45degFDB/43degFWB)	Btu/h =kW x 3,412
Pipe length :	7.5m(24-9/16ft.)	5m(16-3/8ft.)	7.5m(24-9/16ft.)	cfm =m ³ /min x 35.31
Level difference :	0m(0ft.)	0m(0ft.)	0m(0ft.)	lb =kg / 0.4536
*4 -5degC(23degF)DB/-6degC(21degF)WB to 21degC(70degF)DB/15.5degC(60degF)WB with cooling/heating mixed operation.				
* Nominal condition *1, *3 are subject to JIS B8615-1				
*5 External static pressure option is available (30Pa, 60Pa/3.1mmH ₂ O, 6.1mmH ₂ O)				
				*Above specification data is subject to rounding variation.

Model			PURY-EP550YSHM-A1(-BS)	
Power source	3-phase 4-wire 380-400-415V 50/60Hz			
Cooling capacity (Nominal)	*1 kW	63.0		
	*1 kcal / h	54,200		
	*1 Btu / h	215,000		
	*2 kcal / h	55,000		
	Power input	kW	15.47	
	Current input	A	26.1-24.8-23.9	
	COP	kW / kW	4.07	
Temp. range of cooling *4	Indoor	W.B.	15 to 24degC(59 to 75degF)	
	Outdoor	D.B.	-5 to 43degC(23 to 109degF)	
Heating capacity (Nominal)	*3 kW	69.0		
	*3 kcal / h	59,300		
	*3 Btu / h	235,400		
	Power input	kW	16.95	
	Current input	A	28.6-27.1-26.2	
	COP	kW / kW	4.07	
Temp. range of heating *4	Indoor temp.	D.B.	15 to 27degC(59 to 81degF)	
	Outdoor temp.	W.B.	-20 to 15.5degC(-4 to 60degF)	
Indoor unit connectable	Total capacity	50 to 150 % of outdoor unit capacity		
	Model / Quantity	P15 to P250 / 2 to 50 (Connectable branch pipe number is max. 48.)		
Sound pressure level (measured in anechoic room)	dB <A>	63		
Diameter of refrigerant pipe	High pressure	mm(in.)	28.58(1-1/8) Brazed	
	Low pressure	mm(in.)	28.58(1-1/8) Brazed	

Set Model

Model			PURY-EP250YHM-A(-BS)	PURY-EP300YHM-A(-BS)
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type)<MUNSELL 5Y 8/1>	
External dimension HxWxD	mm	1,710(1,650 without legs) x 1,220 x 760		1,710(1,650 without legs) x 1,220 x 760
	in.	67-3/8(65 without legs) x 48-1/16 x 29-15/16		67-3/8(65 without legs) x 48-1/16 x 29-15/16
Net weight	kg(lb)	265(584)		265(584)
Heat exchanger			Salt-resistant cross fin & copper tube	
Compressor	Type	Inverter scroll hermetic compressor		
	Manufacture	AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter	
	Motor output	kW	6.7	8.0
	Case heater	kW	0.045(240 V)	0.045(240 V)
	Lubricant		MEL32	
FAN	Air flow rate	m ³ / min	225	225
		L/s	3,750	3,750
		cfm	7,945	7,945
	External static press. *5		0 Pa (0 mmH ₂ O)	
	Type x Quantity		Propeller fan x 1	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	
Motor output	kW	0.92	0.92	
HIC circuit (HIC: Heat Inter-Changer)				
Protection	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection	
	Fan motor		Thermal switch	
Defrosting method				
Auto-defrost mode (Reversed refrigerant circle)				
Refrigerant	Type x original charge		R410A x 11.8kg (26lb)	R410A x 11.8kg (26lb)
	Control		Indoor LEV and BC controller	
Pipe between unit and distributor	High pressure	mm(in.)	19.05(3/4)Brazed	19.05(3/4)Brazed
	Low pressure	mm(in.)	22.2(7/8)Brazed	22.2(7/8)Brazed
Drawing	External		WKB94T269	
	Wiring		WKE94C320	WKE94C141
Standard attachment	Document		Installation Manual	
	Accessory		Details refer to External Drw	
Optional parts				
Outdoor Twinning kit: CMY-R100VBK joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-Y202-G2, CMY-R160-J Main BC controller: CMB-P108, 1010, 1013, 1016V-GA Sub BC controller: CMB-P104, 108V-GB, CMB-P1016V-HB				
Remarks	* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s. * The outdoor twinning kit(low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are of different capacities, the outdoor twinning kit(low pressure) should be installed in the unit with the largest capacity. * Due to continuing improvement, above specifications may be subject to change without notice.			

Notes :	*1 Nominal cooling conditions	*2 Nominal cooling conditions	*3 Nominal heating conditions	Unit converter
Indoor :	27degCDB/19degCWB (81degFDB/66degFWB)	27degCDB/19.5degCWB (81degFDB/67degFWB)	20degCDB (68degFDB)	kcal =kW x 860
Outdoor :	35degCDB (95degFDB)	35degCDB (95degFDB)	7degCDB/6degCWB (45degFDB/43degFWB)	Btu/h =kW x 3,412
Pipe length :	7.5m(24-9/16ft.)	5m(16-3/8ft.)	7.5m(24-9/16ft.)	cfm =m ³ /min x 35.31
Level difference :	0m(0ft.)	0m(0ft.)	0m(0ft.)	lb =kg / 0.4536
*4 -5degC(23degF)DB/-6degC(21degF)WB to 21degC(70degF)DB/15.5degC(60degF)WB with cooling/heating mixed operation.				
* Nominal condition *1, *3 are subject to JIS B8615-1				
*5 External static pressure option is available (30Pa, 60Pa/3.1mmH ₂ O, 6.1mmH ₂ O)				
				*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

DATA G6

Model		PURY-EP600YSHM-A(-BS)		
Power source		3-phase 4-wire 380-400-415V 50/60Hz		
Cooling capacity (Nominal)	*1 kW	69.0		
	*1 kcal / h	59,300		
	*1 Btu / h	235,400		
	*2 kcal / h	60,000		
	Power input	kW	17.00	
	Current input	A	28.6-27.2-26.2	
	COP	kW / kW	4.05	
Temp. range of cooling *4	Indoor	W.B.	15 to 24degC(59 to 75degF)	
	Outdoor	D.B.	-5 to 43degC(23 to 109degF)	
Heating capacity (Nominal)	*3 kW	76.5		
	*3 kcal / h	65,800		
	*3 Btu / h	261,000		
	Power input	kW	19.12	
	Current input	A	32.2-30.6-29.5	
	COP	kW / kW	4.00	
Temp. range of heating *4	Indoor temp.	D.B.	15 to 27degC(59 to 81degF)	
	Outdoor temp.	W.B.	-20 to 15.5degC(-4 to 60degF)	
Indoor unit connectable	Total capacity	50 to 150 % of outdoor unit capacity		
	Model / Quantity	P15 to P250 / 2 to 50 (Connectable branch pipe number is max. 48.)		
Sound pressure level (measured in anechoic room)	dB <A>	63		
Diameter of refrigerant pipe	High pressure	mm(in.)	28.58(1-1/8) Brazed	
	Low pressure	mm(in.)	28.58(1-1/8) Brazed	

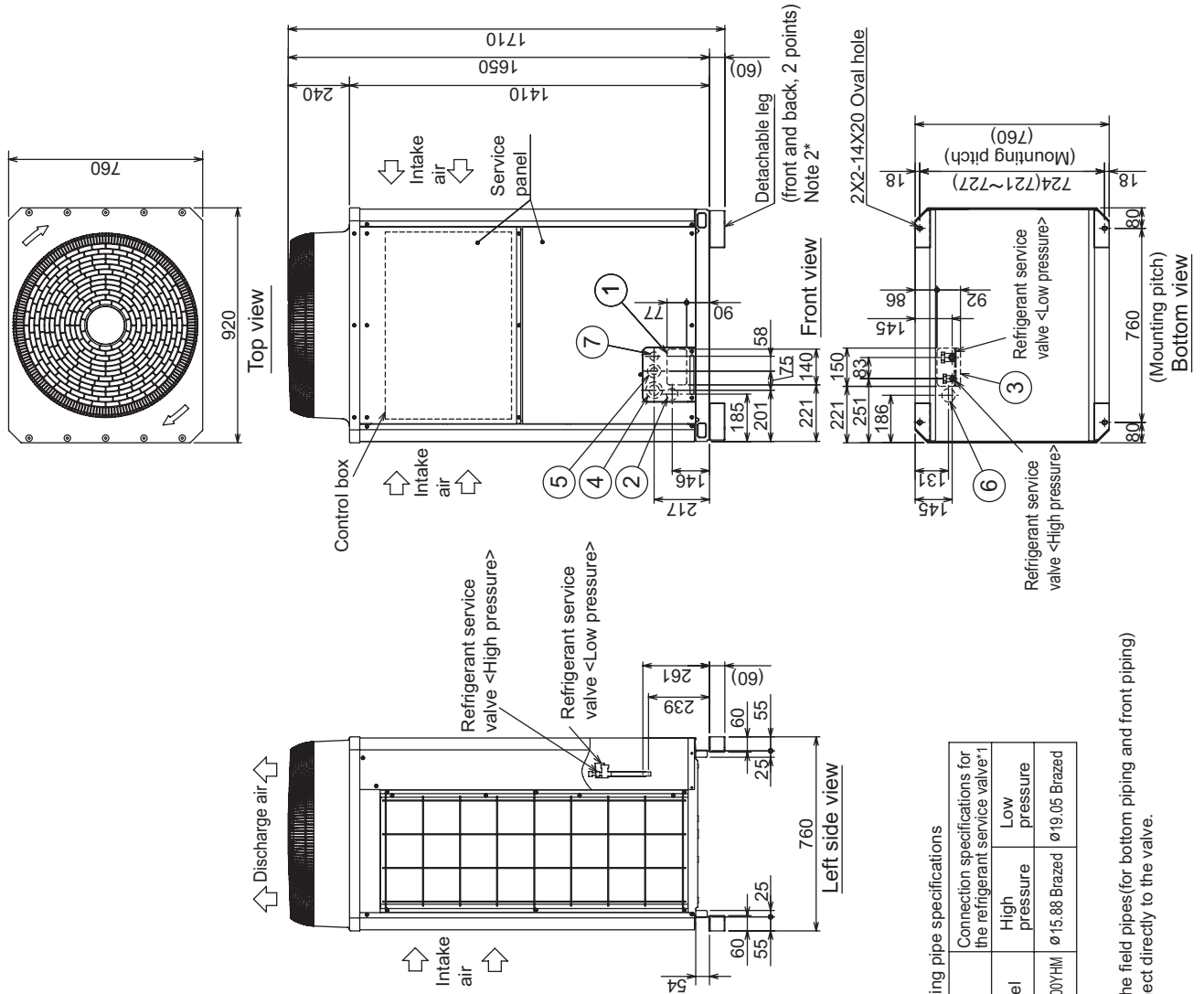
Set Model

Model		PURY-EP300YHM-A(-BS)		PURY-EP300YHM-A(-BS)		
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type)<MUNSELL 5Y 8/1>				
External dimension HxWxD	mm	1,710(1,650 without legs) x 1,220 x 760		1,710(1,650 without legs) x 1,220 x 760		
	in.	67-3/8(65 without legs) x 48-1/16 x 29-15/16		67-3/8(65 without legs) x 48-1/16 x 29-15/16		
Net weight	kg(lb)	265(584)		265(584)		
Heat exchanger		Salt-resistant cross fin & copper tube				
Compressor	Type	Inverter scroll hermetic compressor				
	Manufacture	AC&R Works, MITSUBISHI ELECTRIC CORPORATION				
	Starting method	Inverter		Inverter		
	Motor output	kW	8.0		8.0	
	Case heater	kW	0.045(240 V)		0.045(240 V)	
	Lubricant	MEL32				
FAN	Air flow rate	m ³ / min	225		225	
		L/s	3,750		3,750	
		cfm	7,945		7,945	
	External static press.	*5	0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)	
	Type x Quantity	Propeller fan x 1		Propeller fan x 1		
	Control, Driving mechanism	Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
Motor output	kW	0.92		0.92		
HIC circuit (HIC: Heat Inter-Changer)						
Protection	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)			
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection			
	Compressor		Over-heat protection			
	Fan motor		Thermal switch			
Defrosting method						
Auto-defrost mode (Reversed refrigerant circle)						
Refrigerant	Type x original charge		R410A x 11.8kg (26lb)		R410A x 11.8kg (26lb)	
	Control		Indoor LEV and BC controller			
Pipe between unit and distributor	High pressure	mm(in.)	19.05(3/4)Brazed		19.05(3/4)Brazed	
	Low pressure	mm(in.)	22.2(7/8)Brazed		22.2(7/8)Brazed	
Drawing	External		WKB94T269			
	Wiring		WKE94C141			
Standard attachment	Document		Installation Manual			
	Accessory		Details refer to External Drw			
Optional parts						
Outdoor Twinning kit: CMY-R100VBK joint: CMY-Y102S-G2, CMY-Y102L-G2, CMY-Y202-G2, CMY-R160-J Main BC controller: CMB-P108, 1010, 1013, 1016V-GA Sub BC controller: CMB-P104, 108V-GB, CMB-P1016V-HB						
Remarks		<p>* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.</p> <p>* Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s.</p> <p>* The outdoor twinning kit(low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are of different capacities, the outdoor twinning kit(low pressure) should be installed in the unit with the largest capacity.</p> <p>* Due to continuing improvement, above specifications may be subject to change without notice.</p>				

Notes :	*1 Nominal cooling conditions	*2 Nominal cooling conditions	*3 Nominal heating conditions	Unit converter
Indoor :	27degCDB/19degCWB (81degFDB/66degFWB)	27degCDB/19.5degCWB (81degFDB/67degFWB)	20degCDB (68degFDB)	kcal =kW x 860
Outdoor :	35degCDB (95degFDB)	35degCDB (95degFDB)	7degCDB/6degCWB (45degFDB/43degFWB)	Btu/h =kW x 3,412
Pipe length :	7.5m(24-9/16ft.)	5m(16-3/8ft.)	7.5m(24-9/16ft.)	cfm =m ³ /min x 35.31
Level difference :	0m(0ft.)	0m(0ft.)	0m(0ft.)	lb =kg / 0.4536
*4 -5degC(23degF)DB/-6degC(21degF)WB to 21degC(70degF)DB/15.5degC(60degF)WB with cooling/heating mixed operation.				
* Nominal condition *1, *3 are subject to JIS B8615-1				
*5 External static pressure option is available (30Pa, 60Pa/3.1mmH ₂ O, 6.1mmH ₂ O)				
				*Above specification data is subject to rounding variation.

PURY-EP200YHM-A-(BS)

Ref. : PURY_YHM-A_EXD_EUDB_EP200_R1
Unit : mm



Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2. The detachable leg can be removed at site.
3. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C.

NO.	Usage	Specifications
①	Front through hole	140X77 Knockout hole
②	For pipes	Front through hole (Uses when wiring kit (optional parts) is mounted.)
③		Bottom through hole
④	For wires	Front through hole
⑤		Bottom through hole
⑥	For transmission cables	Front through hole
⑦		Bottom through hole

Connecting pipe specifications

Model	High pressure	Low pressure
PURY-EP200YHM	ø15.88 Brazed	ø19.05 Brazed

*1. Expand the field pipes (for bottom piping and front piping) and connect directly to the valve.

R2(HIGH COP)

PURY-EP200YHM-A(-BS)

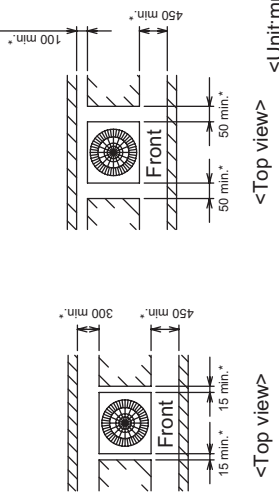
Ref. : PURY_YHM-A_EXD_EUDB_EP200_R2
Unit : mm

R2(HIGH COP)

1. Required space around the unit

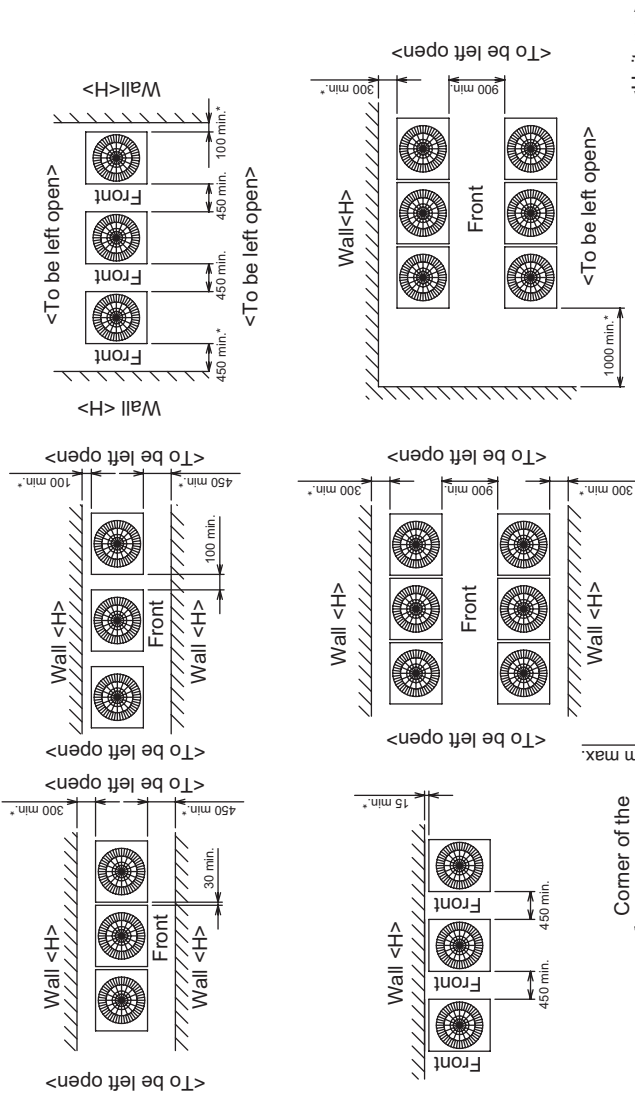
In case of single installation

- ① Secure enough space around the unit as shown in the figure below.
 - With a space of at least 300mm to the wall on the back of the unit
 - With a space of at least 100mm to the wall on the back of the unit

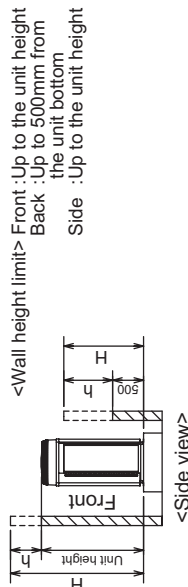


In case of collective installation

- ① When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and walkway between groups of units as shown in the figures below.
- ② At least two sides must be left open.
- ③ As with the single installation, add the height that exceeds the height limit<h> to the figures that are marked with an asterisk.



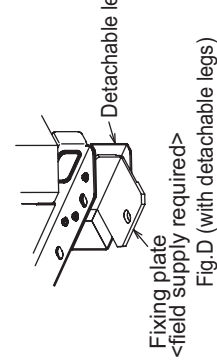
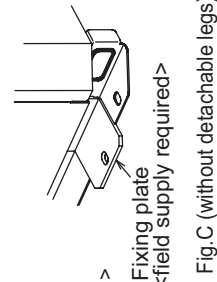
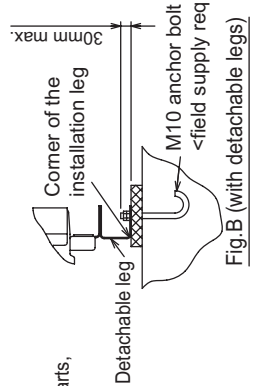
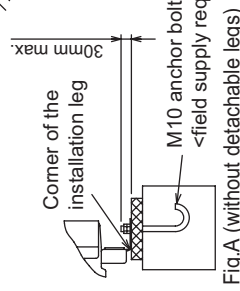
- ② When the height of the walls on the front, back or on the sides<H> exceeds the wall height limit as defined below add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.



<Wall height limit> Front : Up to the unit height
Back : Up to 500mm from the unit bottom
Side : Up to the unit height

2. Foundation work

- ① Take into consideration the surface strength, water drainage route, piping route, and wiring route when preparing the installation site.
 - <Note that the drain water comes out of the unit during operation.>
- ② Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure.(Fig.A,B)
- ③ When using cushion pads, be sure that the full width of the unit is covered.
- ④ The protrusion length of the anchor bolt must not exceed 30mm.(Fig.A,B)
- ⑤ Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts.(Fig.C,D)
- ⑥ To prevent small animals and water from entering the unit and damaging its parts, close the gap around the edges of through holes for pipes and wires with filler plates <field supply required>.
- ⑥ When the pipes or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.
- ⑦ Refer to the Installation Manual when installing units on an installation base.



2. EXTERNAL DIMENSIONS

PURY-EP250, 300YHM-A(-BS)

Ref. : PURY-YHM-A_EXD_EUDB_EP250-EP300_R1

Unit : mm

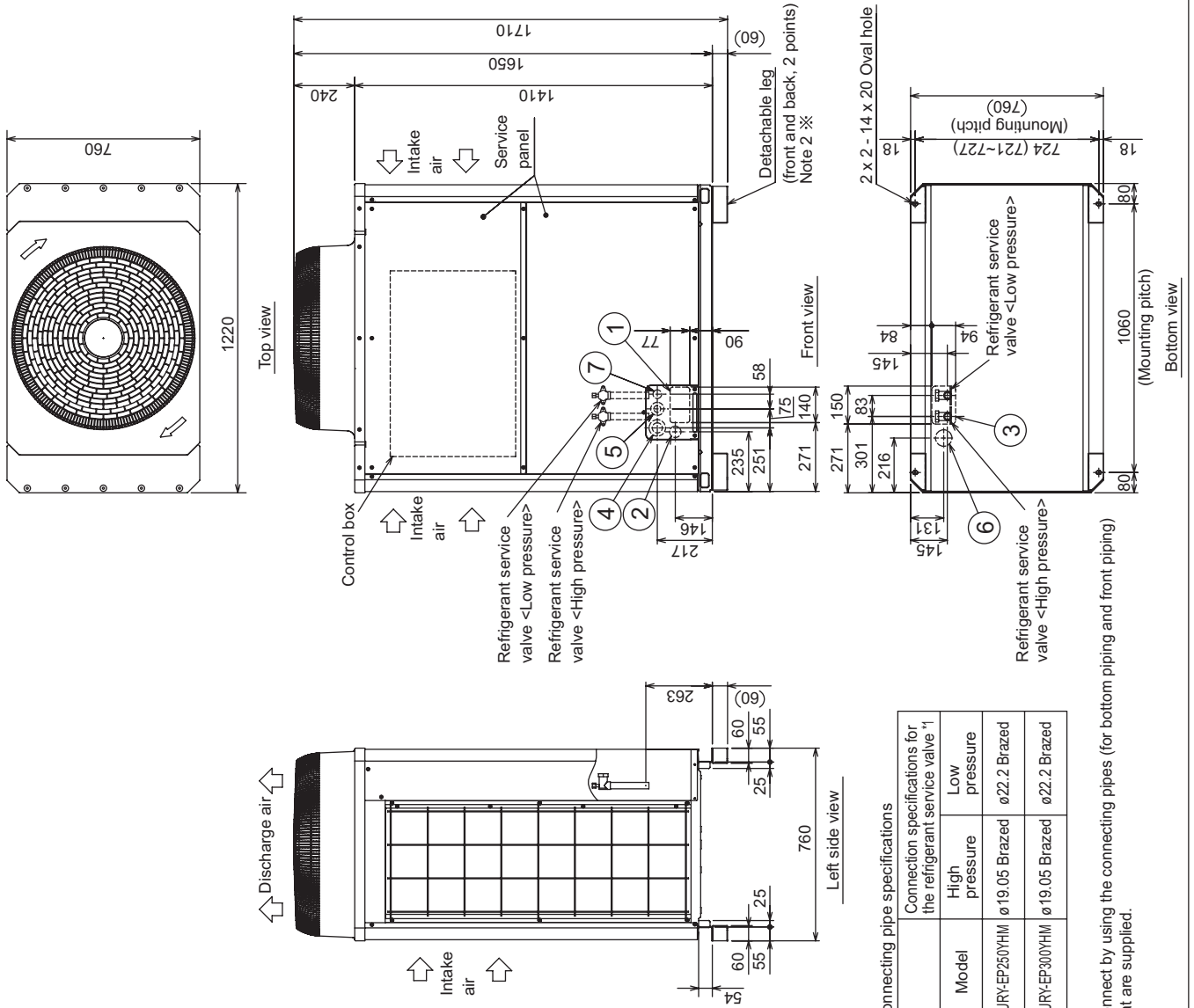
- <Accessories>
- Connecting pipe 1 pc.
 - <Low pressure> · Pipe (IDø25.4 x IDø22.2) 1 pc.
 - <High pressure> · Pipe (IDø25.4 x ODø19.05) 1 pc.
 - Elbow (IDø19.05 x ODø19.05) 1 pc.

Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

2. The detachable leg can be removed at site.

3. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C.

NO.	Usage	Specifications
①	Front through hole	140 x 77 Knockout hole
②	Front through hole (Uses when twinning kit (optional parts) is mounted.)	ø45 Knockout hole
③	Bottom through hole	150 x 94 Knockout hole
④	Front through hole	ø65 or ø40 Knockout hole
⑤	Front through hole	ø52 or ø27 Knockout hole
⑥	Bottom through hole	ø65 Knockout hole
⑦	For transmission cables	ø34 Knockout hole



Connecting pipe specifications

Model	Connection specifications for the refrigerant service valve *1	
	High pressure	Low pressure
PURY-EP250YHM	ø 19.05 Brazed	ø22.2 Brazed
PURY-EP300YHM	ø 19.05 Brazed	ø22.2 Brazed

*1. Connect by using the connecting pipes (for bottom piping and front piping) that are supplied.

R2(HIGH COP)

PURY-EP250, 300YHM-A(-BS)

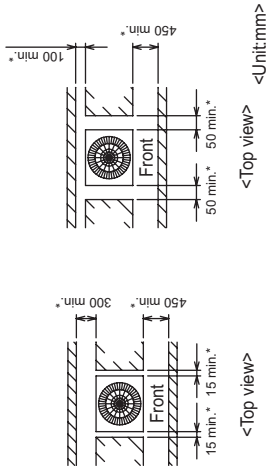
Ref. : PURY-YHM-A_EXD_EUDB_EP250-EP300_R2

Unit : mm

1. Required space around the unit

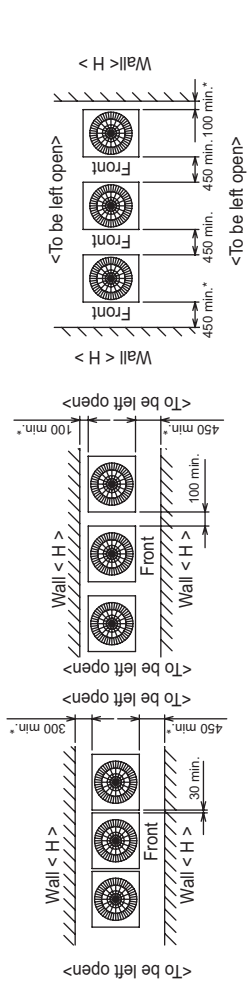
● In case of single installation

- ① Secure enough space around the unit as shown in the figure below.
- With a space of at least 300mm to the wall on the back of the unit

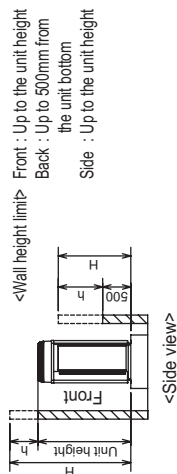


● In case of collective installation

- ① When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and walkway between groups of units as shown in the figures below.
- ② At least two sides must be left open.
- ③ As with the single installation, add the height that exceeds the height limit <H> to the figures that are marked with an asterisk.



- ② When the height of the walls on the front, back or on the sides <H> exceeds the wall height limit as defined below add the height that exceeds the height limit <H> to the figures that are marked with an asterisk.



2. Foundation work

- ① Take into consideration the surface strength, water drainage route, piping route, and wiring route when preparing the installation site. <Note that the drain water comes out of the unit during operation.>
- ② Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure. (Fig. A, B)
- ③ The protrusion length of the anchor bolt must not exceed 30mm. (Fig. A, B)
- ④ Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts. (Fig. C, D)
- ⑤ To prevent small animals and water and snow from entering the unit and damaging its parts, close the gap around the edges of through holes for pipes and wires with filler plates <field supply required>.
- ⑥ When the pipes or cables are routed at the bottom of the unit make sure that the through hole at the base of the unit does not get blocked with the installation base.
- ⑦ Refer to the Installation Manual when installing units on an installation base.

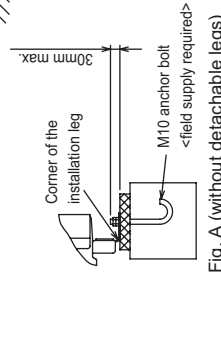


Fig. A (without detachable legs)

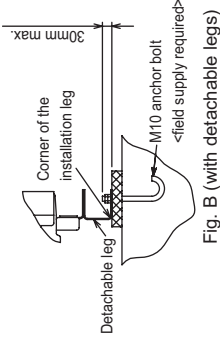


Fig. B (with detachable legs)

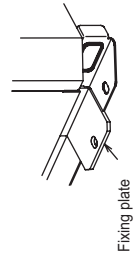


Fig. C (without detachable legs)

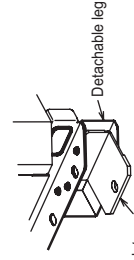
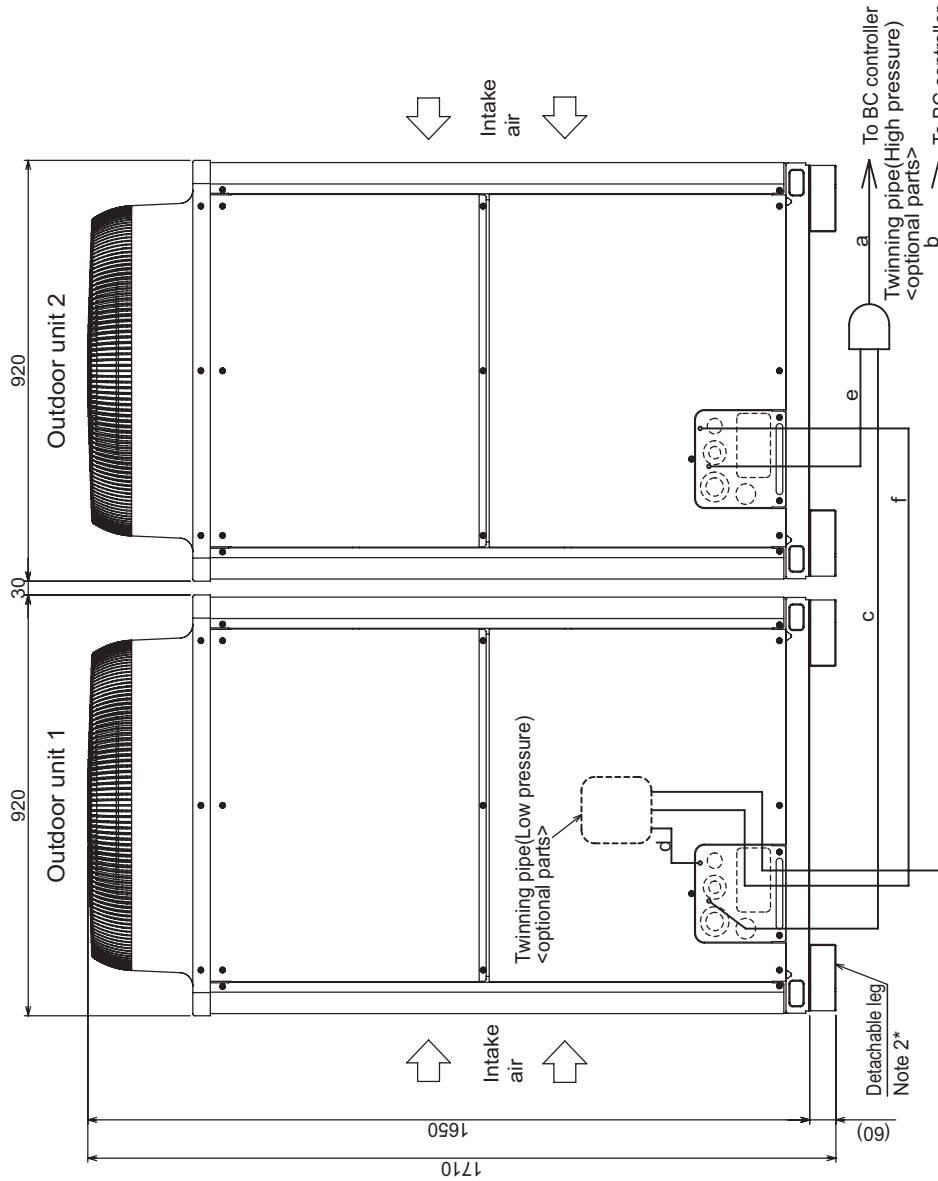


Fig. D (with detachable legs)

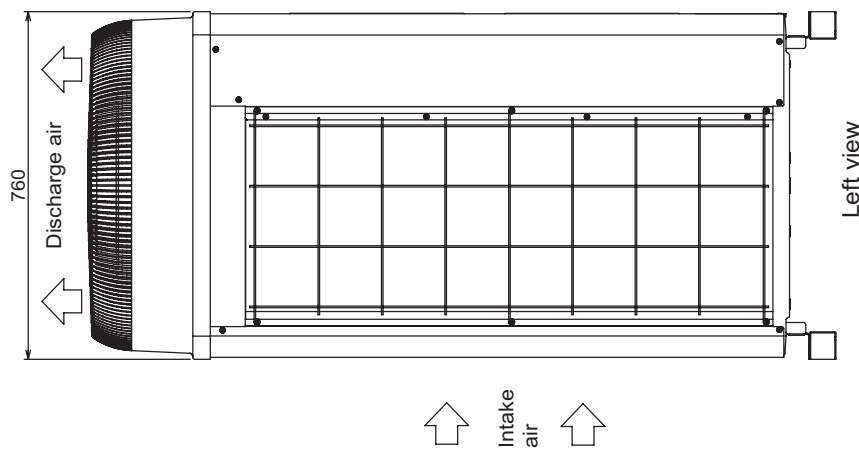
R2(HIGH COP)

PURY-EP400YSHM-A(-BS)

Ref. : PURY_YHM-A_EXD_EUDB_EP400
Unit : mm



Front view



Left view

Twinning pipe connection size

Package unit name	PURY-EP400YSHM-A(-BS)
Outdoor unit 1	PURY-EP200YHM-A(-BS)
Outdoor unit 2	PURY-EP200YHM-A(-BS)
Outdoor Twinning Kit(optional parts)	CMY-R100VBK
BC controller ~Twinning pipe	High pressure a Low pressure b
	ø22.2 ø28.58

Twinning pipe ~Outdoor unit	Unit model	High pressure	Low pressure
	EP200	c or e ø15.88	d or f ø19.05

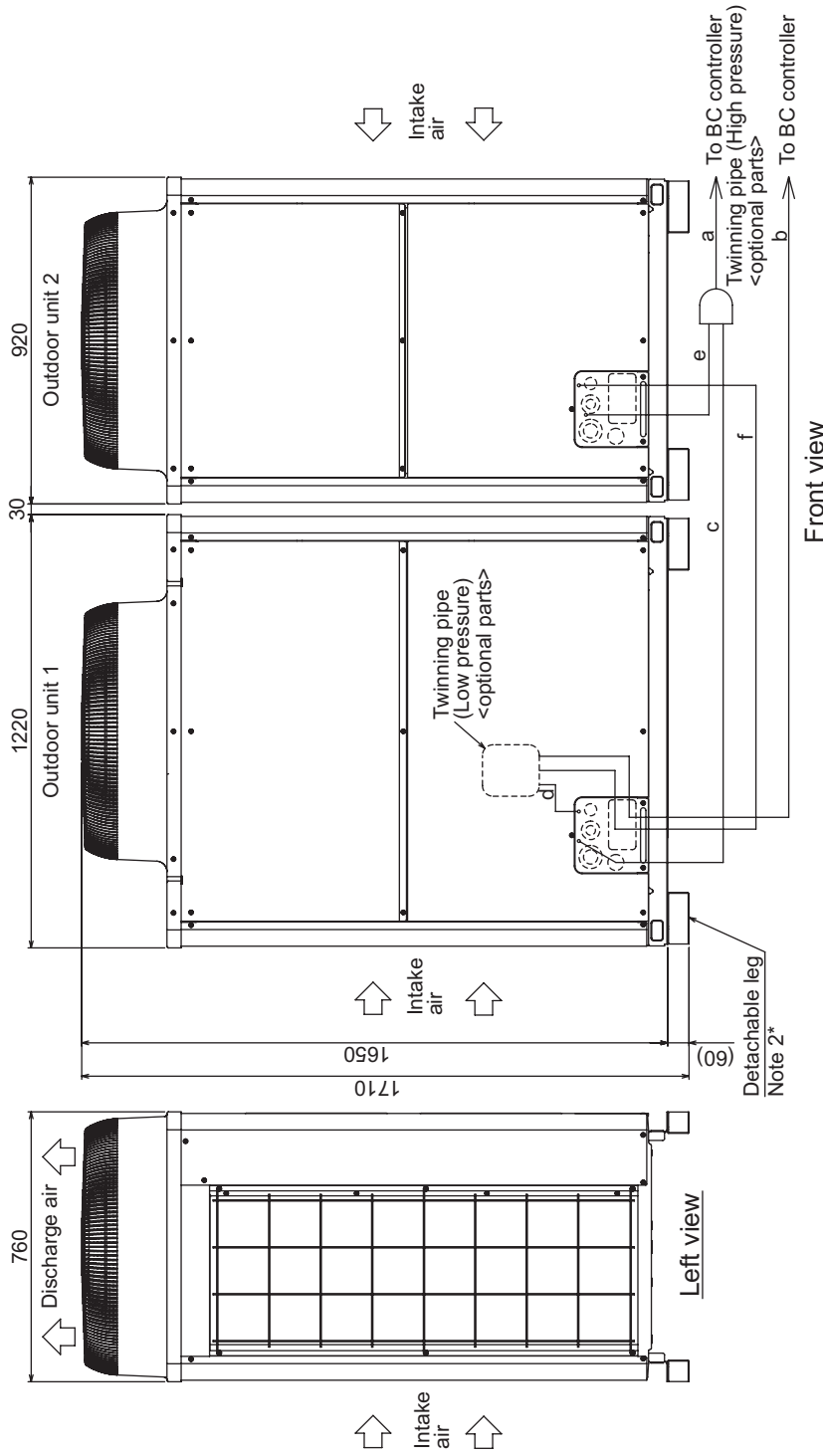
- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. The detachable leg can be removed at site.
 3. Twinning pipe (High pressure) should not be tilted more than 15 degrees from the horizontal plane.
 Be sure to see the Installation Manual for the details of Twinning pipe installation.
 4. The pipe section before the Twinning pipe (sections "a" in the figure) must have at least 500mm of straight section
 (**including the straight pipe that is supplied with the Twinning pipe).
 5. Only use the Twinning pipe by Mitsubishi (optional parts).

R2(HIGH COP)

PURY-EP450, 500YSHM-A(1)(-BS)

Ref. : PURY-YSHM-A_EXD_EUDB_EP450-EP500

Unit : mm



Front view

Twinning pipe connection size

Package unit name	PURY-EP450YSHM-A(1)(-BS)	PURY-EP500YSHM-A(-BS)
Component unit name	Outdoor unit 1 PURY-EP250YHM-A(-BS)	Outdoor unit 2 PURY-EP200YHM-A(-BS)
Outdoor Twinning Kit (optional parts)	CMY-R100VBK	
BC controller ~ Twinning pipe	Low pressure a	ø22.2
	High pressure b	ø28.58

Twinning pipe ~ Outdoor unit	Unit model	High pressure c or e	Low pressure d or f
	EP200	ø15.88	ø19.05
	EP250	ø19.05	ø22.2
EP300	ø19.05	ø22.2	

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. The detachable leg can be removed at site.
 3. Twinning pipe (High pressure) should not be tilted more than 15 degrees from the horizontal plane. Be sure to see the Installation Manual for the details of Twinning pipe installation.
 4. The pipe section before the Twinning pipe (sections "a" in the figure) must have at least 500mm of straight section (* including the straight pipe that is supplied with the Twinning pipe).
 5. Only use the Twinning pipe by Mitsubishi (optional parts).

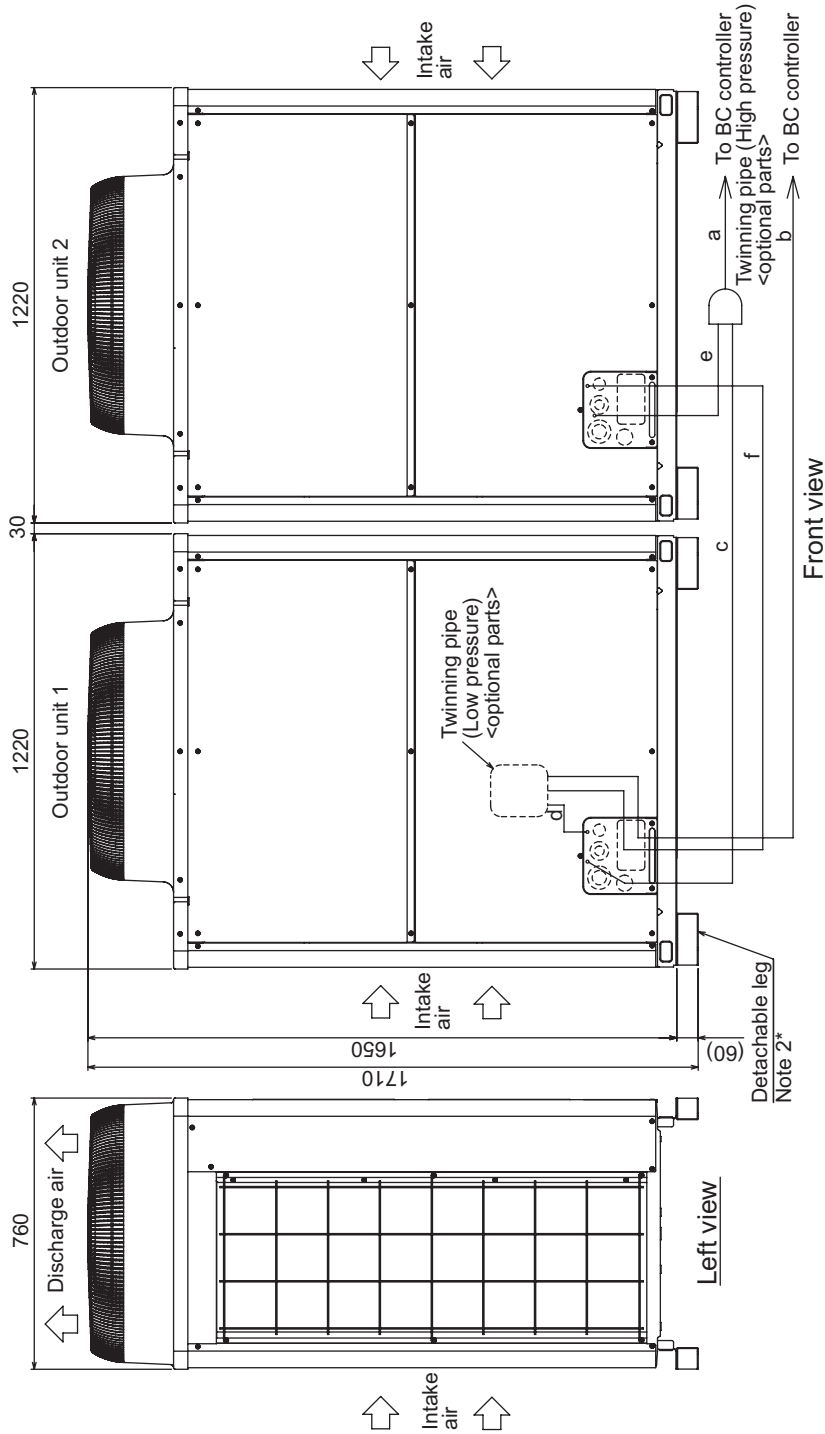
R2(HIGH COP)

2. EXTERNAL DIMENSIONS

DATA G6

PURY-EP550, 600YSHM-A(1)-(BS)

Ref. : PURY-YSHM-A_EXD_EUDB_EP550-EP600
Unit : mm



Twinning pipe connection size

Package unit name	PURY-EP550YSHM-A(1)-(BS)	PURY-EP600YSHM-A(1)-(BS)
Component unit name	Outdoor unit 1	Outdoor unit 2
Outdoor unit name	PURY-EP300YHM-A(1)-(BS)	PURY-EP300YHM-A(1)-(BS)
Outdoor Twinning Kit (optional parts)	PURY-EP250YHM-A(1)-(BS)	PURY-EP300YHM-A(1)-(BS)
BC controller ~ Twinning pipe	CMY-R100VBK	
High pressure pipe	a	ø28.58
Low pressure pipe	b	ø28.58

Unit model	High pressure pipe c or e	Low pressure pipe d or f
Twinning pipe ~ Outdoor unit	EP250 ø19.05	ø22.2
	EP300 ø19.05	ø22.2

Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.

2. The detachable leg can be removed at site.

3. Twinning pipe (High pressure) should not be tilted more than 15 degrees from the horizontal plane.

Be sure to see the Installation Manual for the details of Twinning pipe installation.

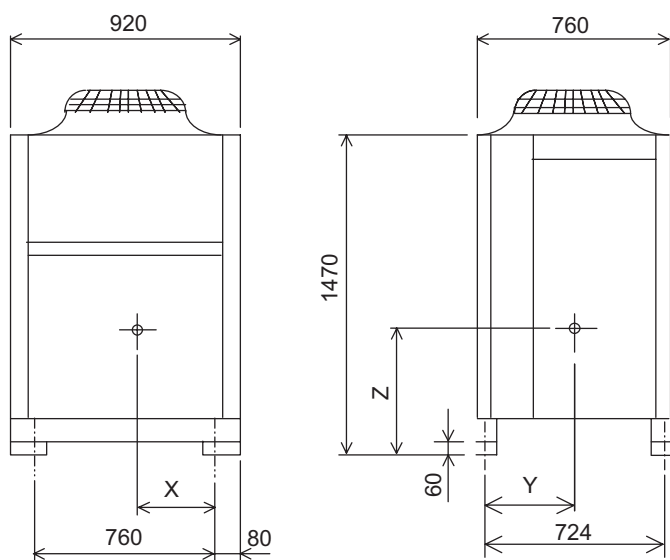
4. The pipe section before the Twinning pipe (sections "a" in the figure) must have at least 500mm of straight section

(* including the straight pipe that is supplied with the Twinning pipe).

5. Only use the Twinning pipe by Mitsubishi (optional parts).

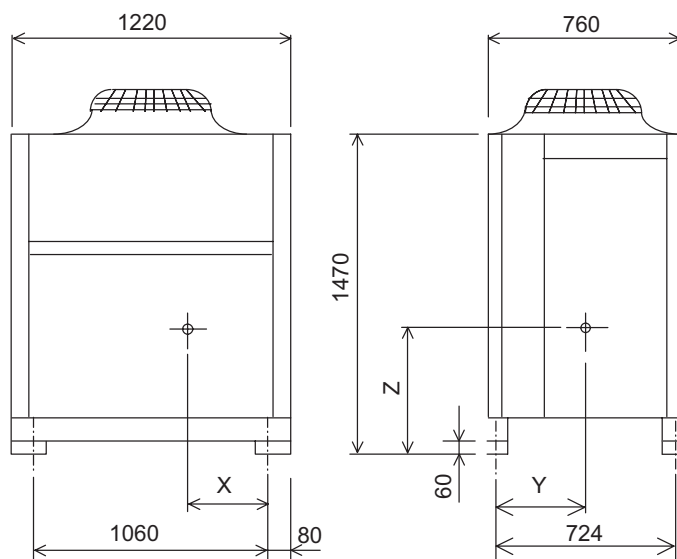
R2(HIGH COP)

PURY-P250, P300, EP200YHM-A (-BS)



Model	X	Y	Z
PURY-P250YHM-A (-BS)	345	332	655
PURY-P300YHM-A (-BS)	335	327	645
PURY-EP200YHM-A (-BS)	345	332	655

PURY-P350, P400, EP250, EP300YHM-A (-BS)



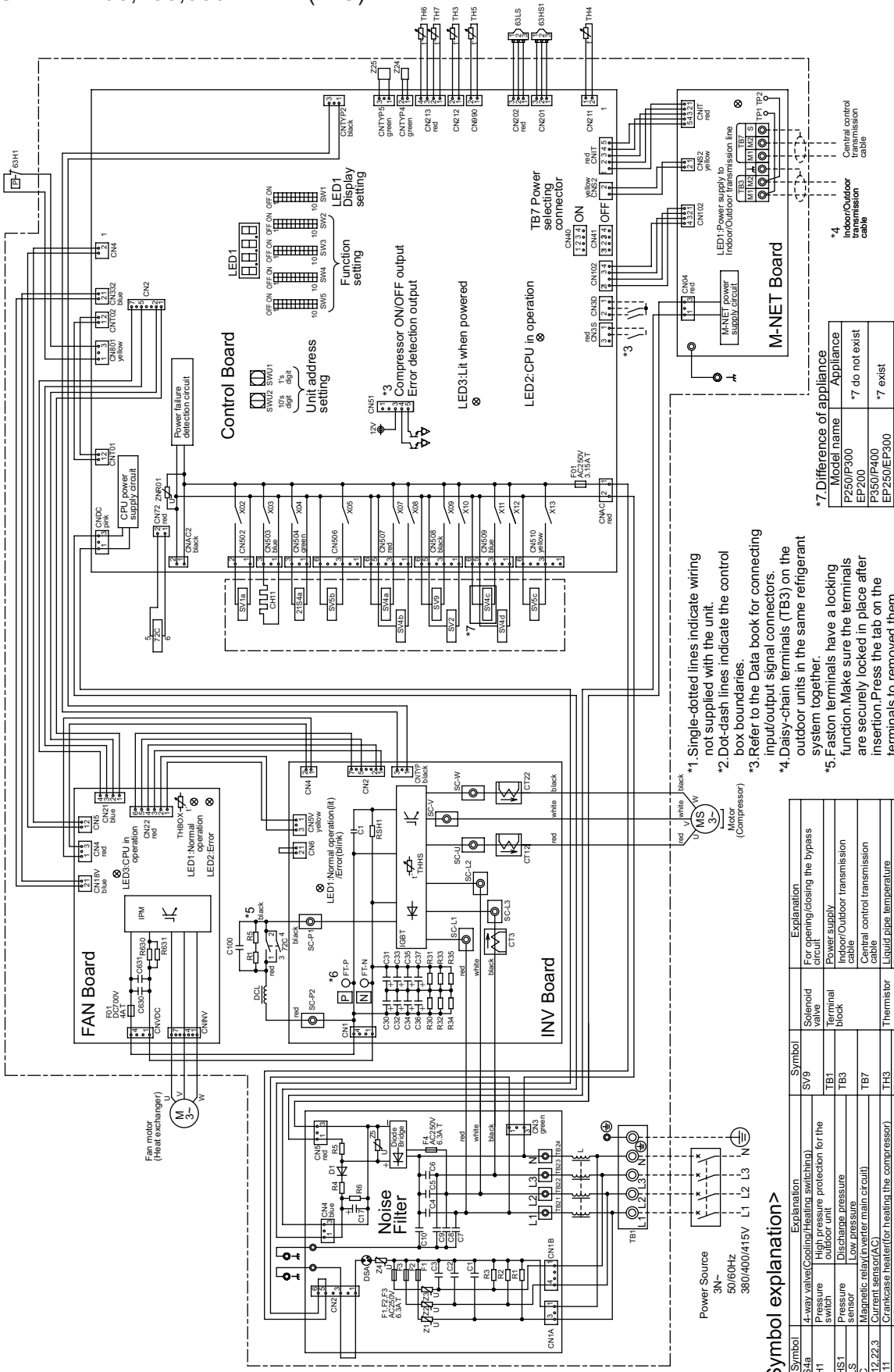
Model	X	Y	Z
PURY-P350YHM-A (-BS)	450	322	630
PURY-P400YHM-A (-BS)	450	322	630
PURY-EP250YHM-A (-BS)	450	322	630
PURY-EP300YHM-A (-BS)	450	322	630

Ref. : PURY_YHM-A_COG_EUDB_ALL_2

R2(HIGH COP)

PURY-P250,300,350,400YHM-A-(BS)
 PURY-EP200,250,300YHM-A-(BS)

Ref. :PURY_YHM-A_EWD_EUDB_ALL



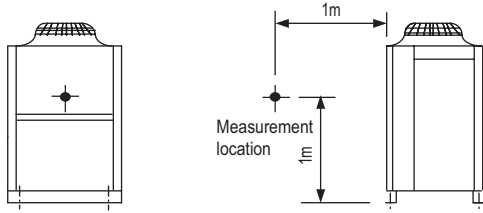
- *1 Single-dotted lines indicate wiring not supplied with the unit.
- *2 Dot-dash lines indicate the control box boundaries.
- *3 Refer to the Data book for connecting input/output signal connectors.
- *4 Daisy-chain terminals (TB3) on the outdoor units in the same refrigerant system together.
- *5 Faston terminals have a locking function. Make sure the terminals are securely locked in place after insertion. Press the tab on the terminal to remove them.
- *6 Control box houses high-voltage parts. Before inspecting the inside of the control box, turn off the power, keep the unit off for at least 10 minutes, and confirm that the voltage between FT-P and FT-N on INV Board has dropped to DC20V or less.
- *7 Difference of appliance Model name

<Symbol explanation>

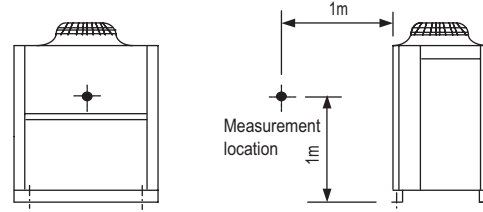
Symbol	Explanation	Symbol	Explanation
Z1S4a	4-way valve (Cooling/Heating switching)	SV9	Solenoid valve
63H1	Pressure switch	TB1	Terminal block
63HS1	Pressure sensor	TB3	Terminal block
63LS	Pressure sensor	TB7	Terminal block
Z12.22.3	Magnetic relay (inverter main circuit)	TH3	Thermistor
CH11	Compressor heater (for heating the compressor)	TH4	Thermistor
DCR	DC reactor	TH5	Thermistor
SV1a	Solenoid valve	TH6	Thermistor
SV2	For opening/closing the bypass circuit under the O/S	TH7	Thermistor
SV4a.b.c.d	Discharge suction bypass	TH8	Thermistor
SV5a	Heat exchanger capacity control	TH9	Thermistor
SV5b	For opening/closing the bypass circuit	TH10	Thermistor
SV5c	Heat exchanger low pressure bypass	Z24.25	Function setting connector

R2(HIGH COP)

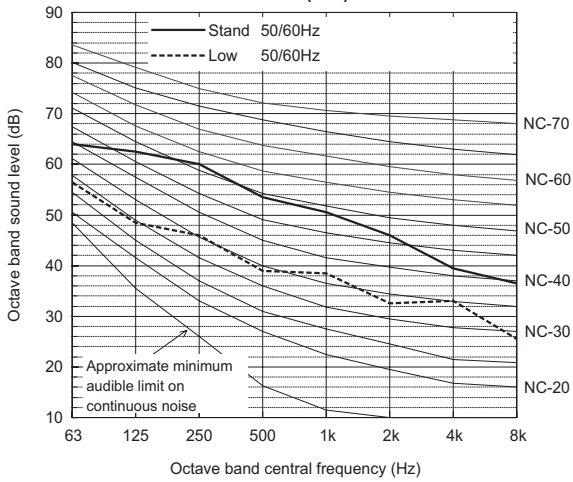
Measurement condition
PURY-EP200YHM-A(-BS)



Measurement condition
PURY-EP250,300YHM-A(-BS)



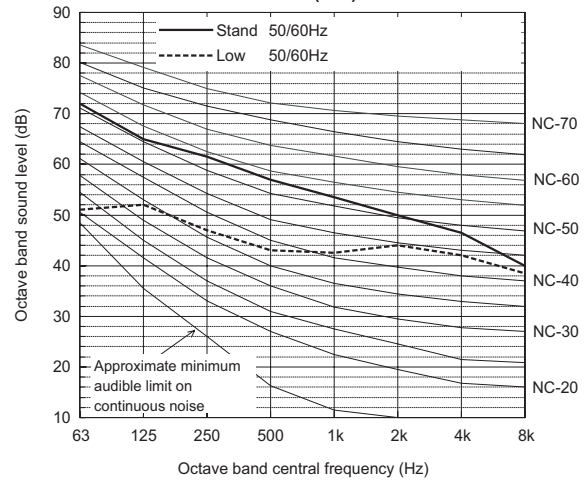
Sound level of PURY-EP200YHM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	64.0	62.5	60.0	53.5	50.5	46.0	39.5	36.5	57.0
Low Noise Mode	50/60Hz	56.5	48.5	46.0	39.0	38.5	32.5	33.0	25.5	44.0

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.

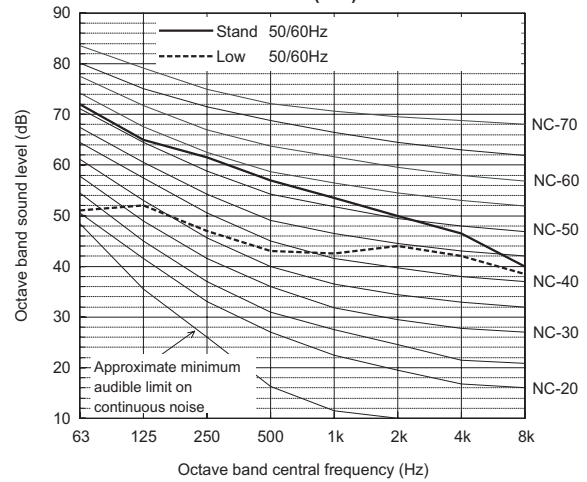
Sound level of PURY-EP250YHM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	72.0	65.0	61.5	57.0	53.5	50.0	46.5	40.0	60.0
Low Noise Mode	50/60Hz	51.0	52.0	47.0	43.0	42.5	44.0	42.0	38.5	50.0

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 PURY-EP300YHM-A(-BS)

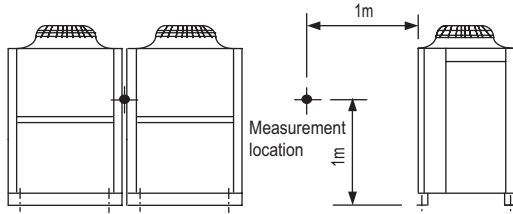


		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	72.0	65.0	61.5	57.0	53.5	50.0	46.5	40.0	60.0
Low Noise Mode	50/60Hz	51.0	52.0	47.0	43.0	42.5	44.0	42.0	38.5	50.0

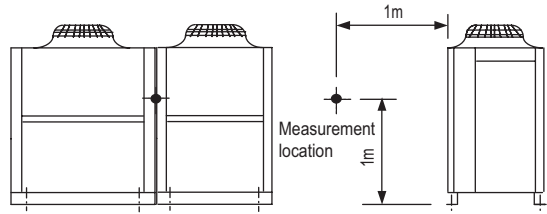
When Low Noise Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low Noise Mode automatically in the case that the operation condition is severe.

R2(HIGH COP)

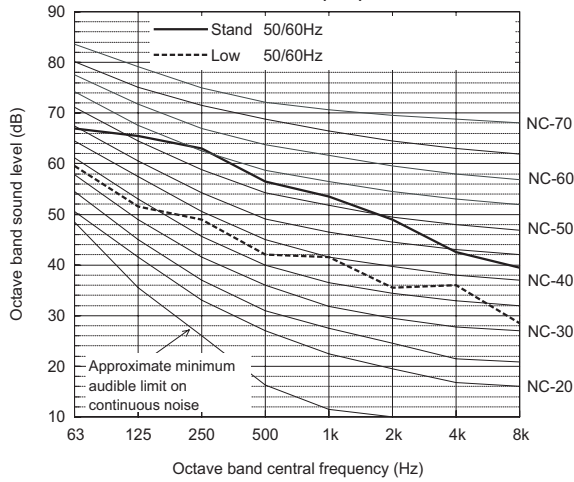
**Measurement condition
PURY-EP400YSHM-A(-BS)**



**Measurement condition
PURY-EP450,500,500YSHM-A(1)(-BS)**



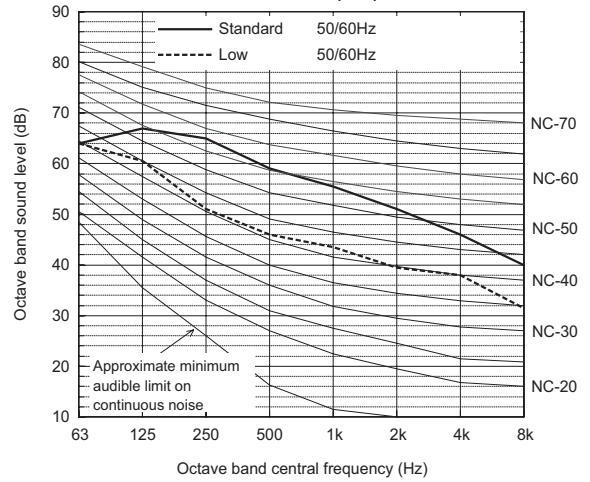
Sound level of PURY-EP400YSHM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	67.0	65.5	63.0	56.5	53.5	49.0	42.5	39.5	60.0
Low Noise Mode	50/60Hz	59.5	51.5	49.0	42.0	41.5	35.5	36.0	28.5	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.

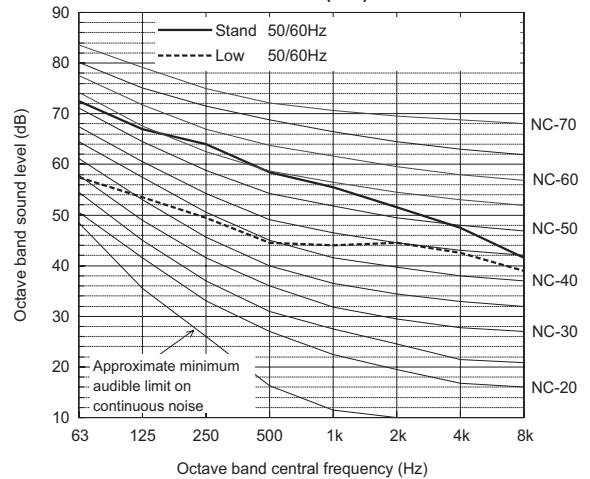
Sound level of PURY-EP450YSHM-A1(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	64.0	67.0	65.0	59.0	55.5	51.0	46.0	40.0	62.0
Low Noise Mode	50/60Hz	64.0	60.5	51.0	46.0	43.5	39.5	38.0	31.5	51.0

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.

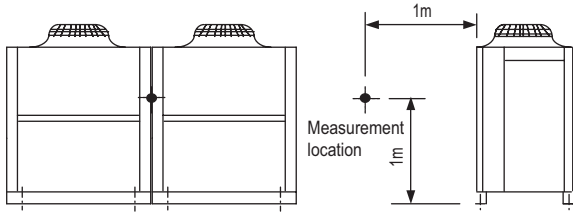
Sound level of PURY-EP500YSHM-A(-BS)



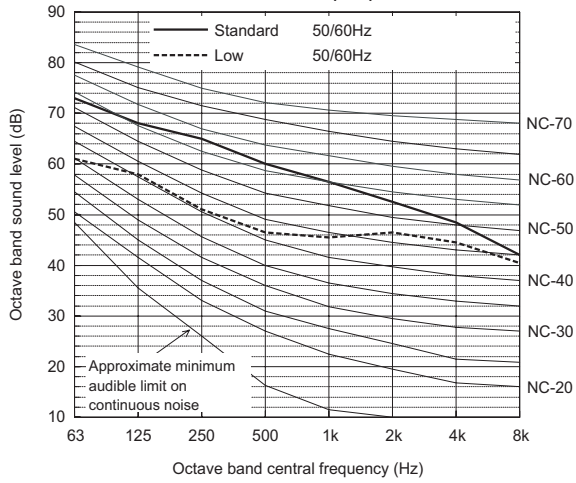
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	72.5	67.0	64.0	58.5	55.5	51.5	47.5	41.5	62.0
Low Noise Mode	50/60Hz	57.5	53.5	49.5	44.5	44.0	44.5	42.5	39.0	51.0

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
PURY-EP550,600YSHM-A(1)(-BS)



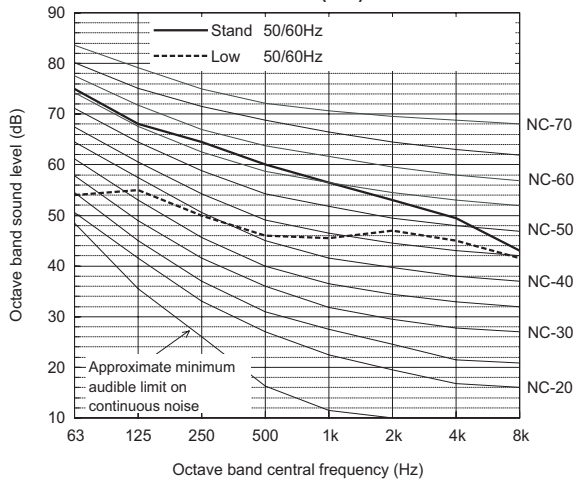
Sound level of PURY-EP550YSHM-A1(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	73.0	68.0	65.0	60.0	56.5	52.5	48.5	42.0	63.0
Low Noise Mode	50/60Hz	61.0	58.0	51.0	46.5	45.5	46.5	44.5	40.5	53.0

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 PURY-EP600YSHM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	75.0	68.0	64.5	60.0	56.5	53.0	49.5	43.0	63.0
Low Noise Mode	50/60Hz	54.0	55.0	50.0	46.0	45.5	47.0	45.0	41.5	53.0

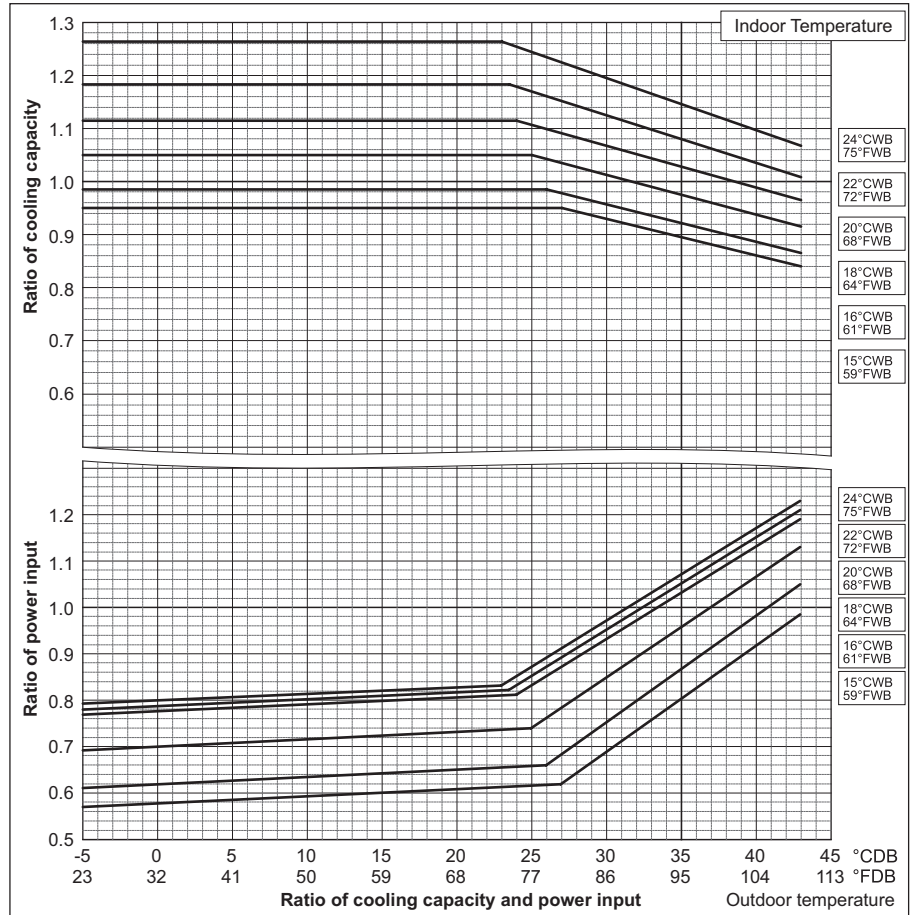
When Low Noise Mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low Noise Mode automatically in the case that the operation condition is severe.

R2(HIGH COP)

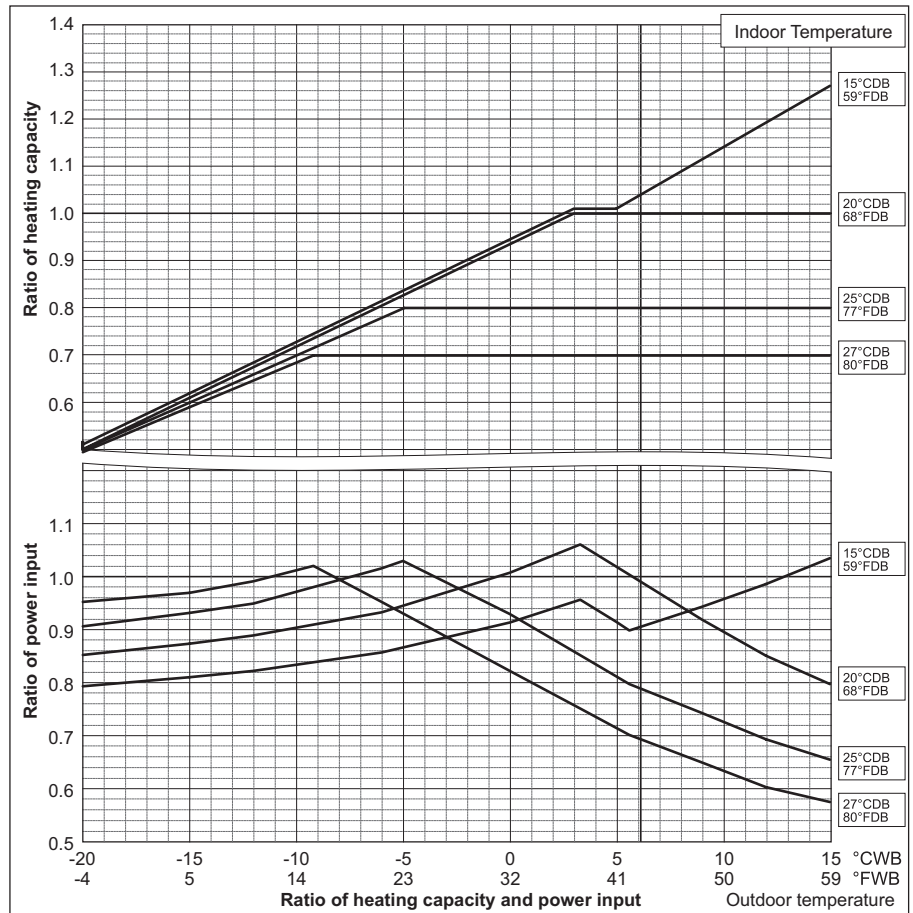
6-1. Correction by temperature

CITY MULTI could have various capacities at different designing temperatures. Using the nominal cooling/heating capacity values and the ratios below, the capacity can be found for various temperatures.

PURY-		EP200YHM-A(-BS)	EP250YHM-A(-BS)
Nominal Cooling Capacity	kW	22.4	28.0
	BTU/h	76,400	95,500
Input	kW	5.23	6.86



PURY-		EP200YHM-A(-BS)	EP250YHM-A(-BS)
Nominal Heating Capacity	kW	25.0	31.5
	BTU/h	85,300	107,500
Input	kW	5.81	7.60

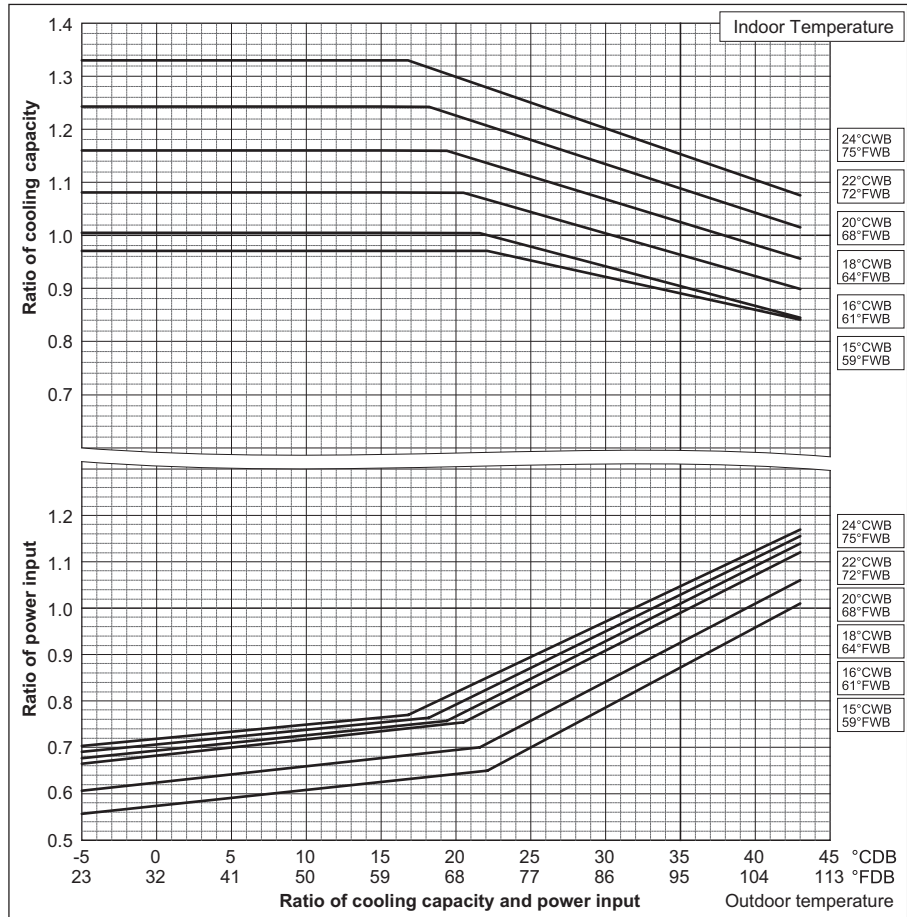


Ref:PURY_YHM-A_CbTMP_EUDB_EP200-EP250

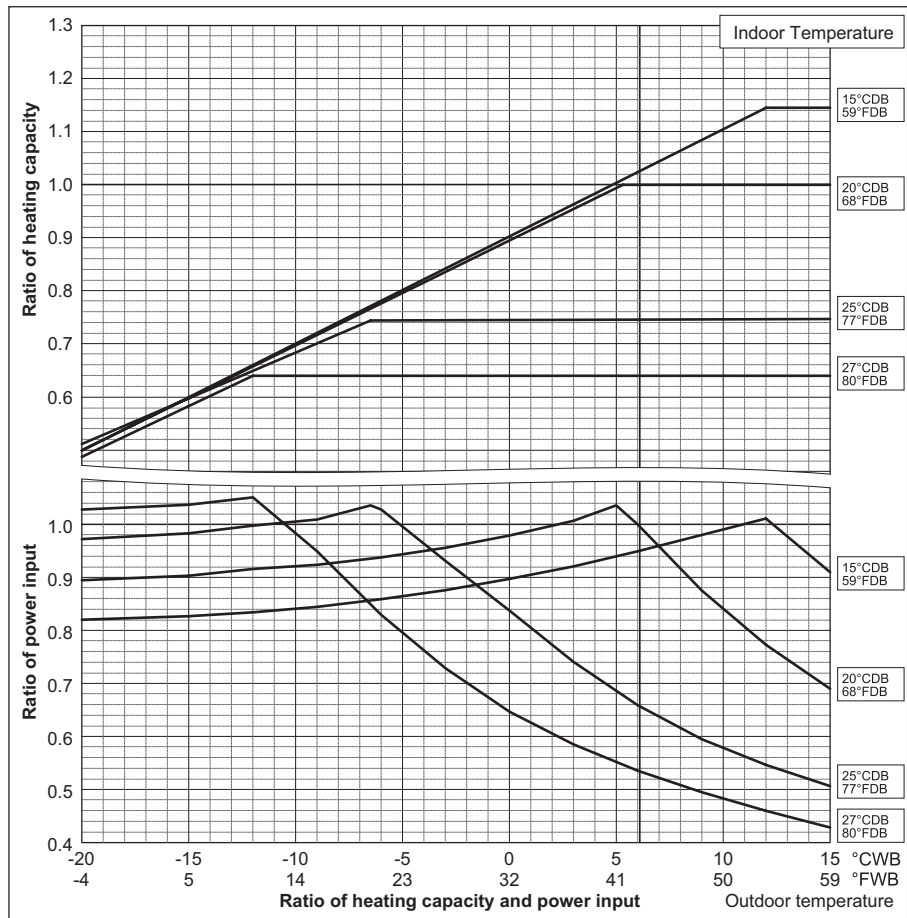
6. CAPACITY TABLES

DATA G6

PURY-		EP300YHM-A(-BS)	EP400YSHM-A(-BS)
Nominal Cooling Capacity	kW	33.5	45.0
	BTU/h	114,300	153,500
Input	kW	8.33	10.57



PURY-		EP300YHM-A(-BS)	EP400YSHM-A(-BS)
Nominal Heating Capacity	kW	37.5	50.0
	BTU/h	128,000	170,600
Input	kW	9.37	11.73



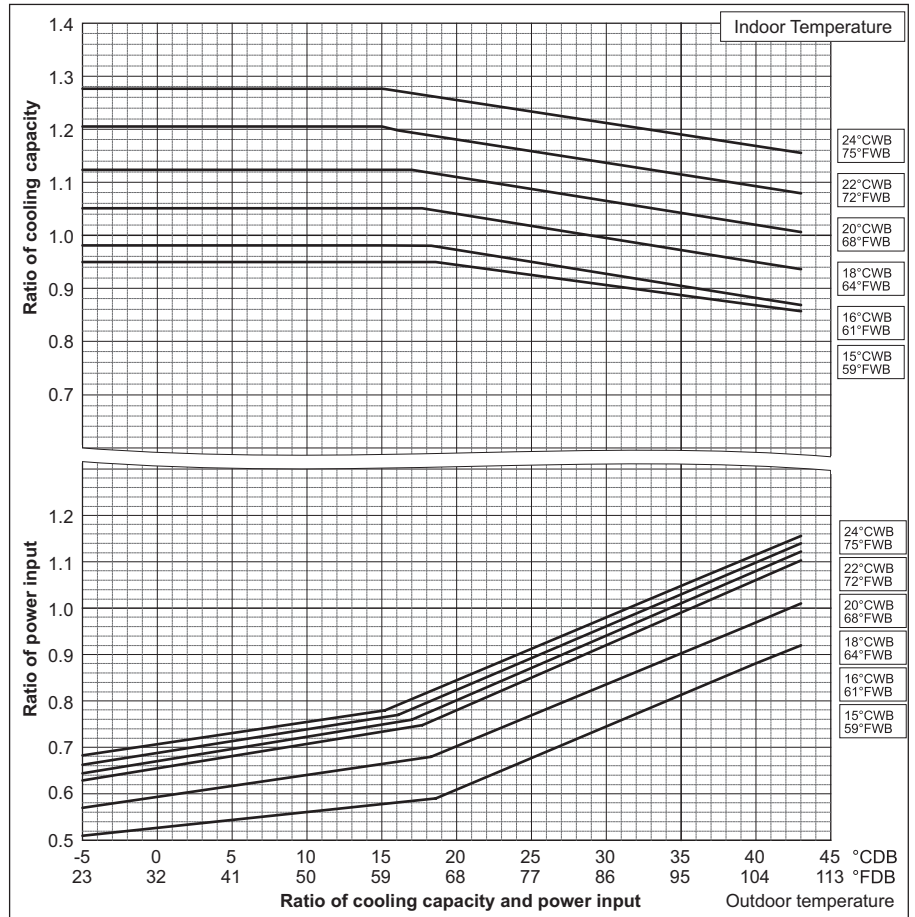
Ref:PURY_YHM-A_CbTMP_EUDB_EP300-P400

R2(HIGH COP)

6. CAPACITY TABLES

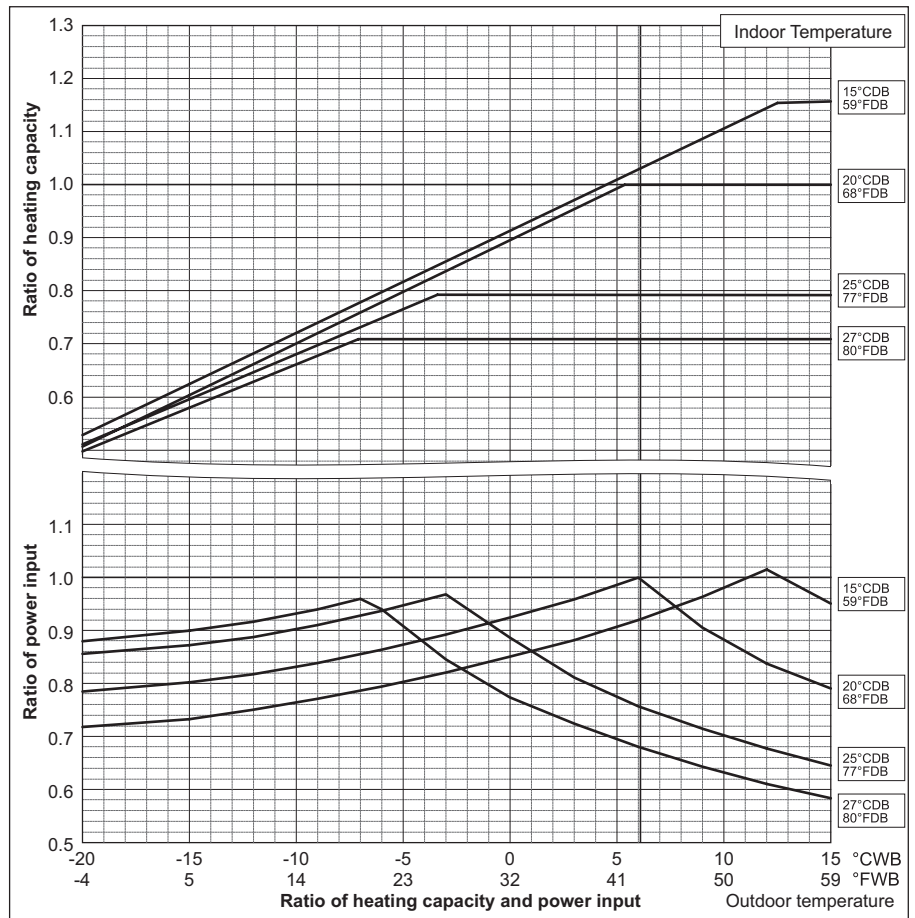
PURY-		EP450YSHM-A1(-BS)	EP500YSHM-A(-BS)
Nominal Cooling Capacity	kW	50.0	56.0
	BTU/h	170,600	191,100
Input	kW	12.07	13.70

PURY-		EP550YSHM-A1(-BS)	EP600YSHM-A(-BS)
Nominal Cooling Capacity	kW	63.0	69.0
	BTU/h	215,000	235,400
Input	kW	15.47	17.00



PURY-		EP450YSHM-A1(-BS)	EP500YSHM-A(-BS)
Nominal Heating Capacity	kW	56.0	63.0
	BTU/h	191,100	215,000
Input	kW	13.23	15.33

PURY-		EP550YSHM-A1(-BS)	EP600YSHM-A(-BS)
Nominal Heating Capacity	kW	69.0	76.5
	BTU/h	235,400	261,000
Input	kW	16.95	19.12



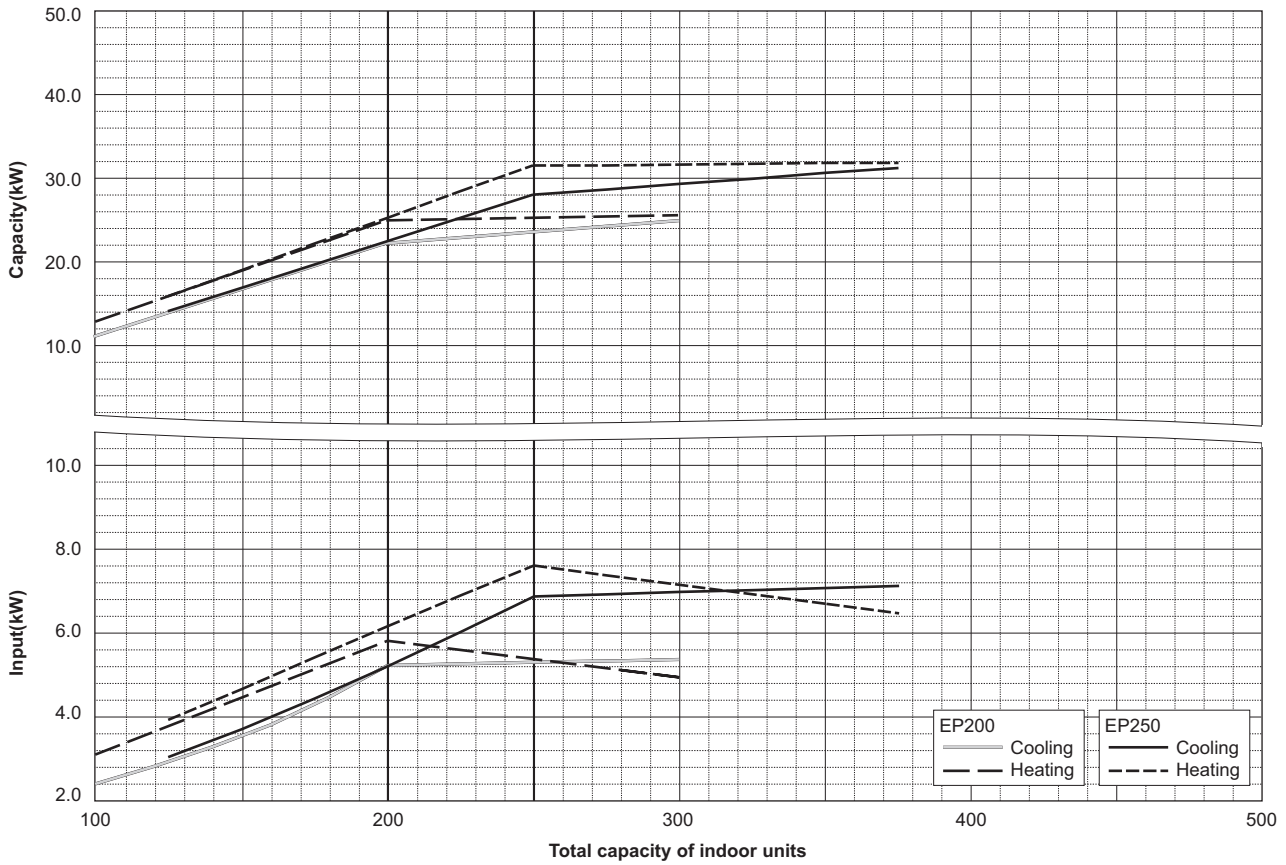
Ref:PURY_YHM-A_CbTMP_EUDB_EP450-EP600

R2(HIGH COP)

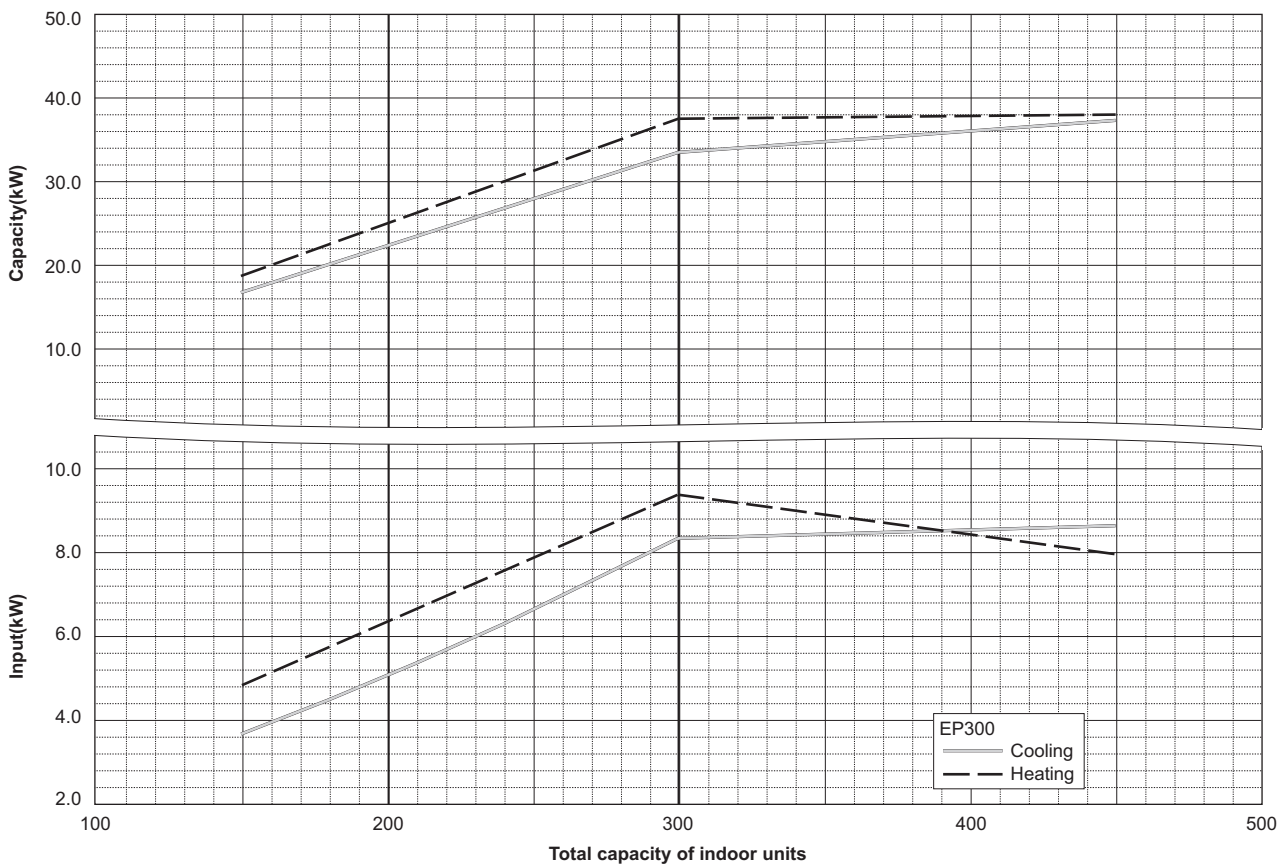
6-2. Correction by total indoor

CITY MULTI system have different capacities and inputs when many combinations of indoor units with different total capacities are connected. Using following tables, the maximum capacity can be found to ensure the system is installed with enough capacity for a particular application.

PURY-EP200,250YHM-A(-BS)



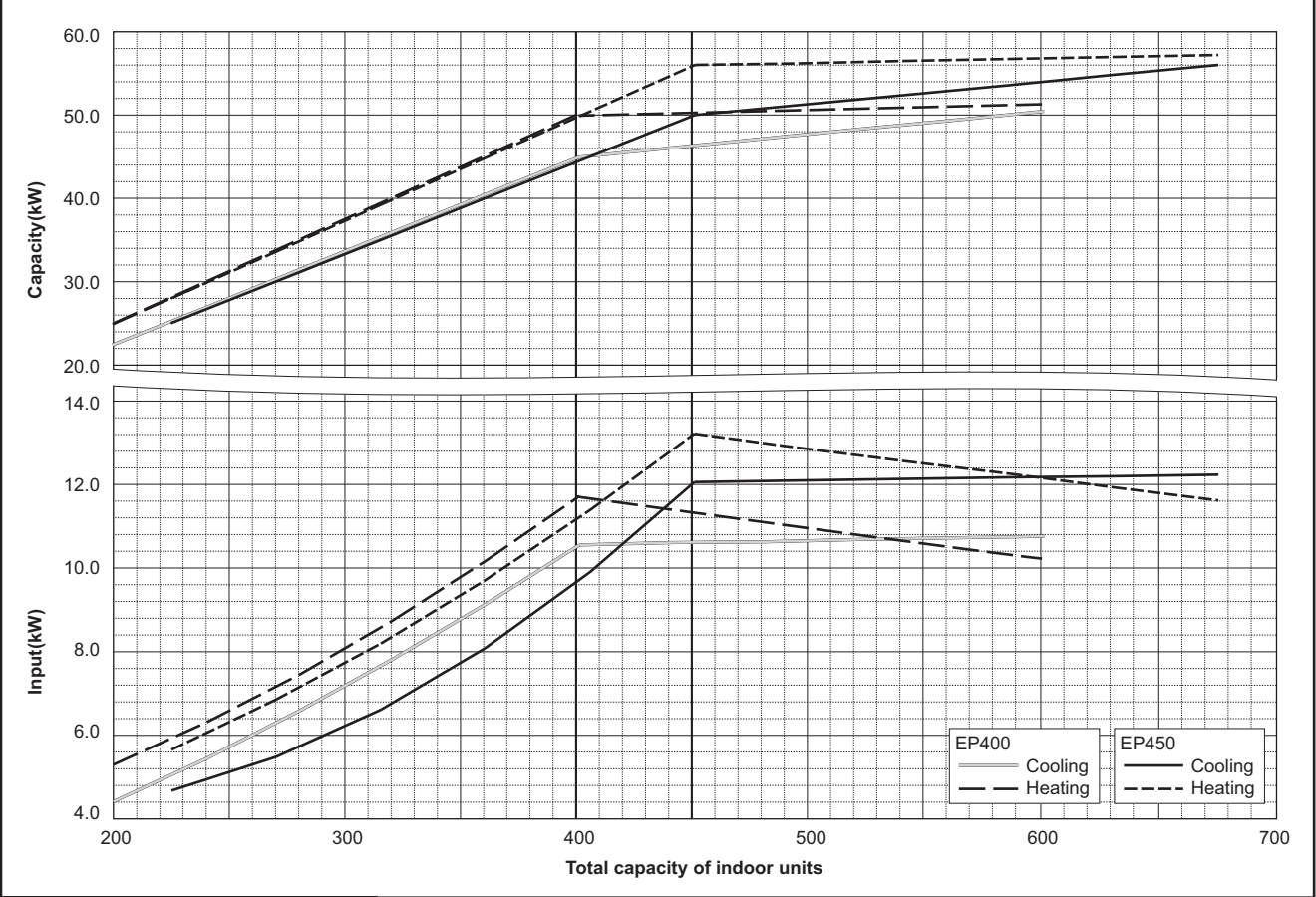
PURY-EP300YHM-A(-BS)



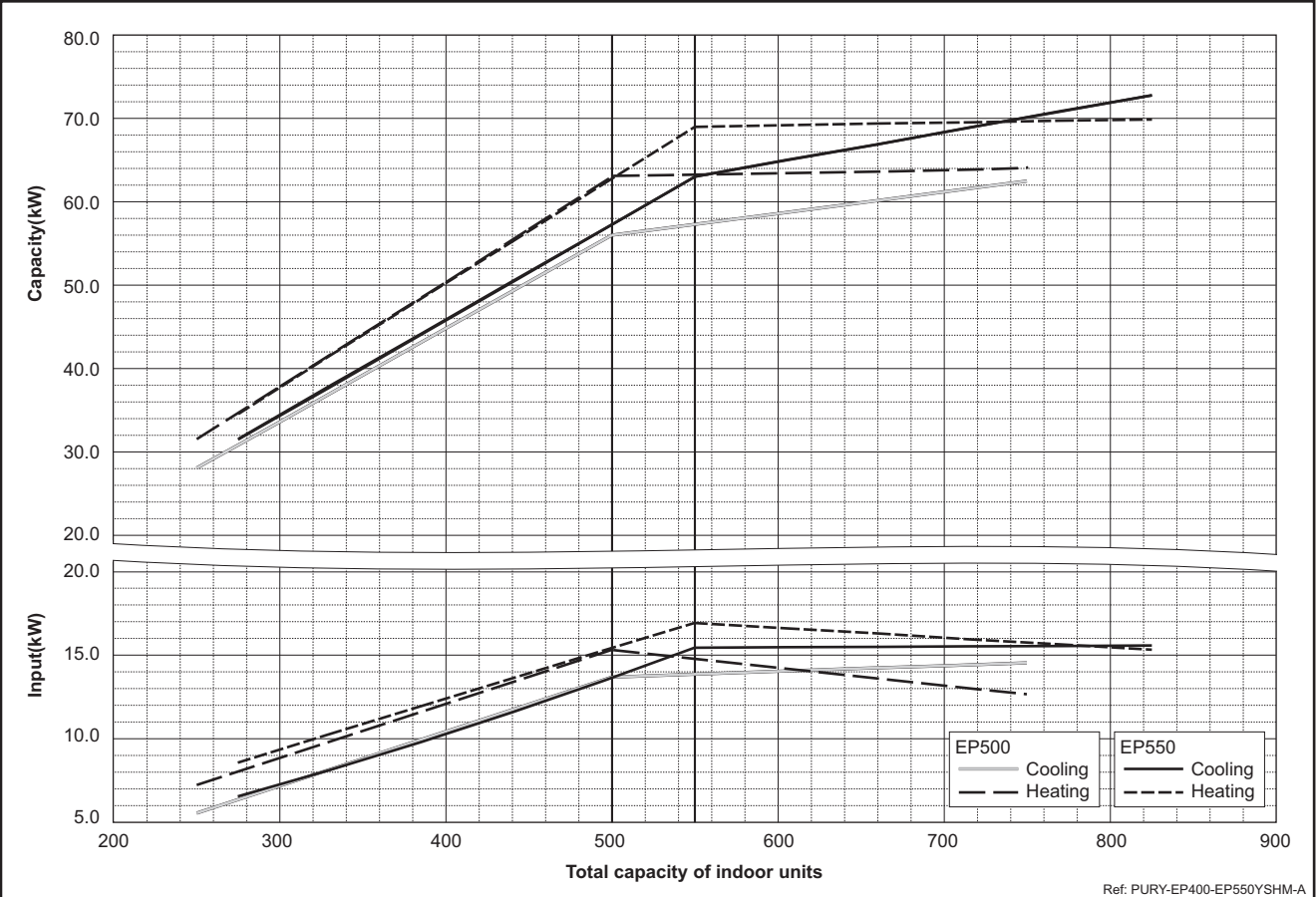
Ref: PURY-EP200-EP300YHM-A

R2(HIGH COP)

PURY-EP400,450YSHM-A(1)(-BS)



PURY-EP500,550YSHM-A(1)(-BS)



Ref: PURY-EP400-EP550YSHM-A

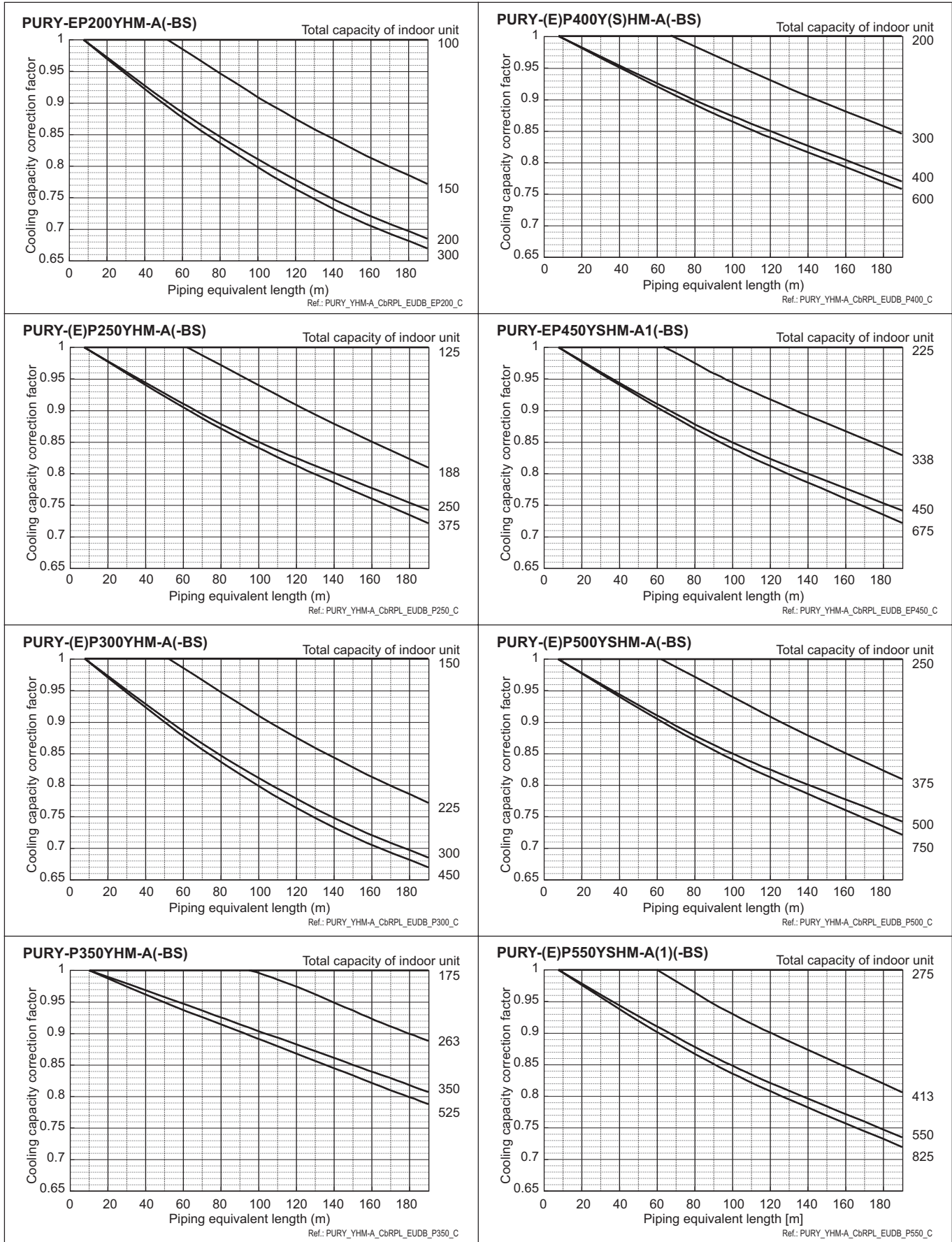
R2(HIGH COP)

6-3. Correction by refrigerant piping length

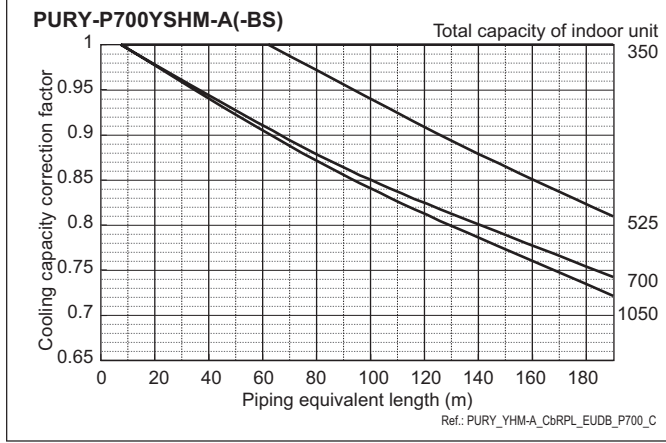
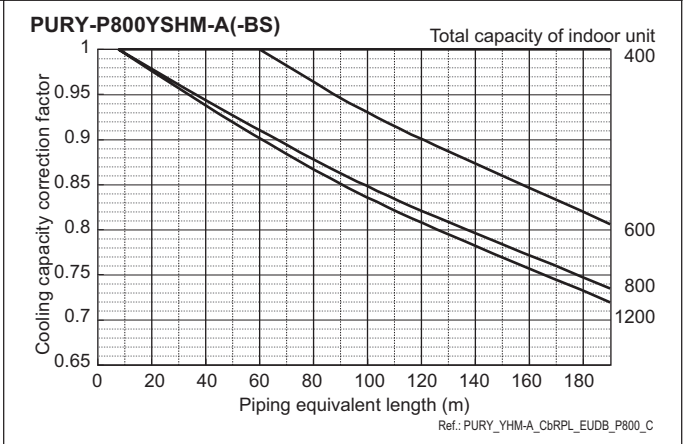
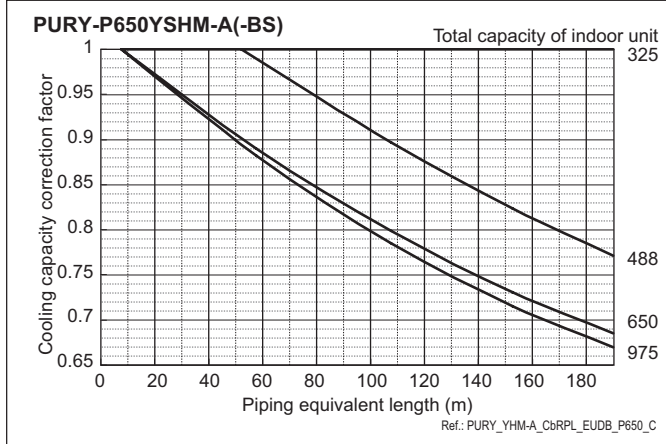
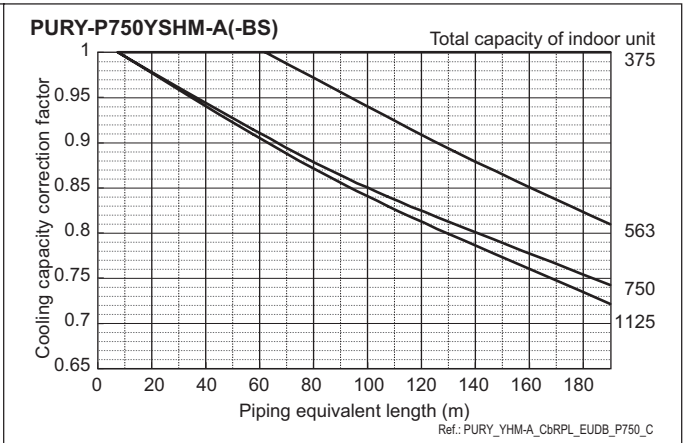
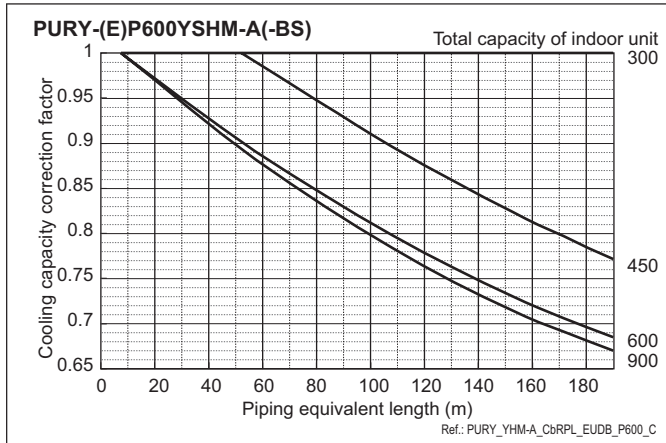
CITY MULTI systems can have extended piping lengths if certain limitations are followed, but cooling/heating capacity could be reduced. Using following correction factor by equivalent piping length shown at 6-3-1 and 6-3-2, capacity can be found. 6-3-3 shows how to obtain the equivalent piping length.

6-3-1. Cooling capacity correction

R2(HIGH COP)



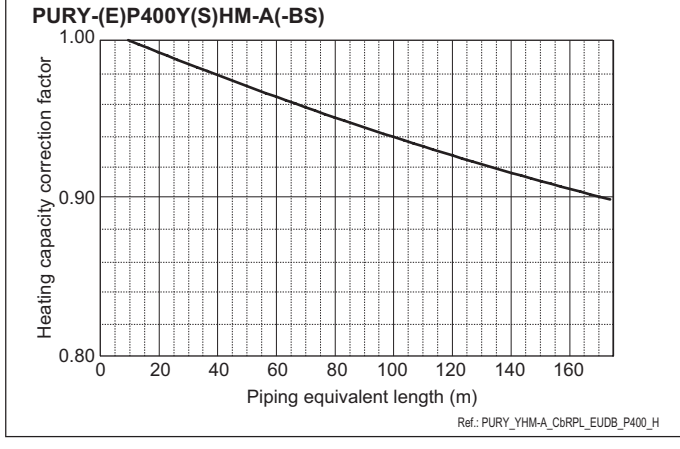
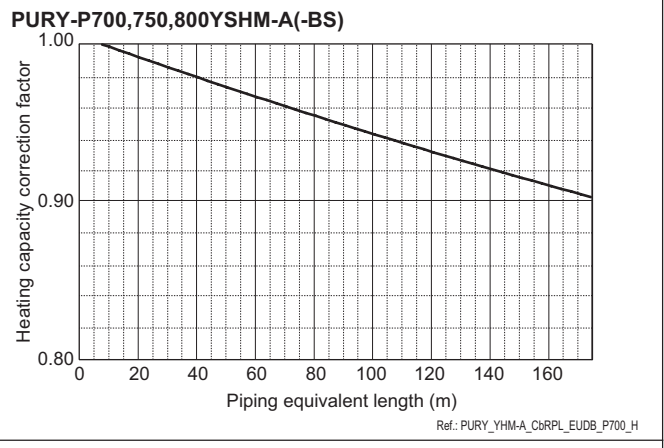
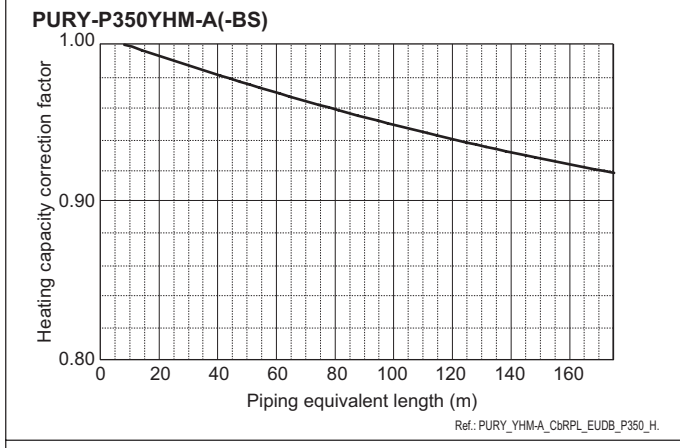
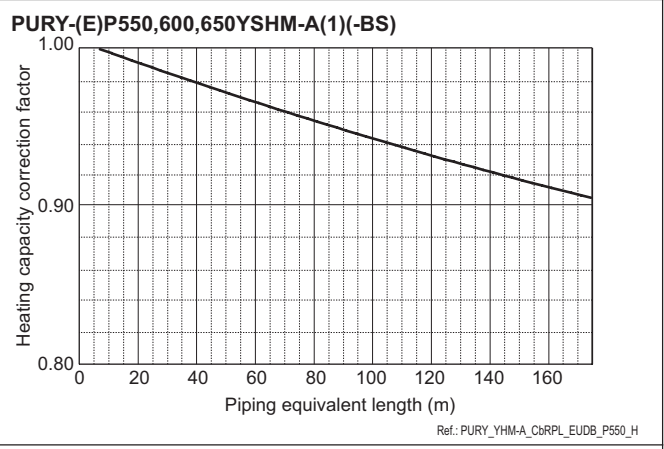
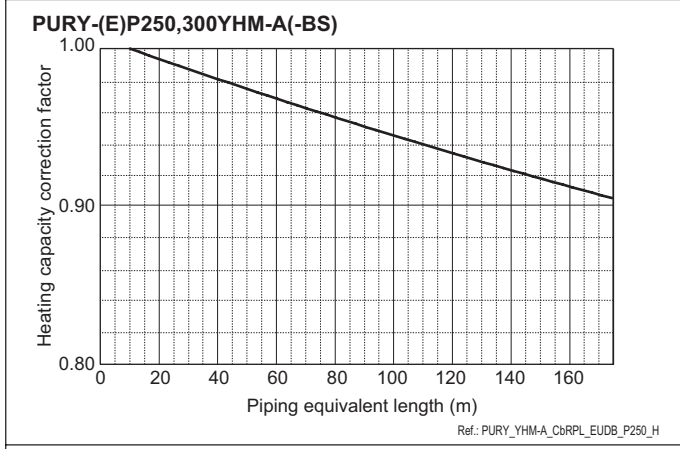
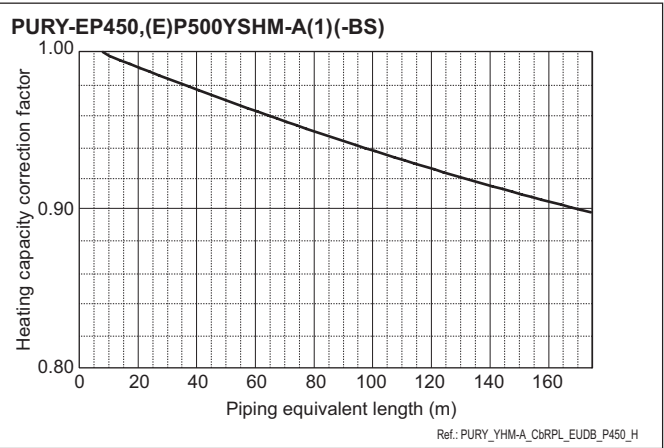
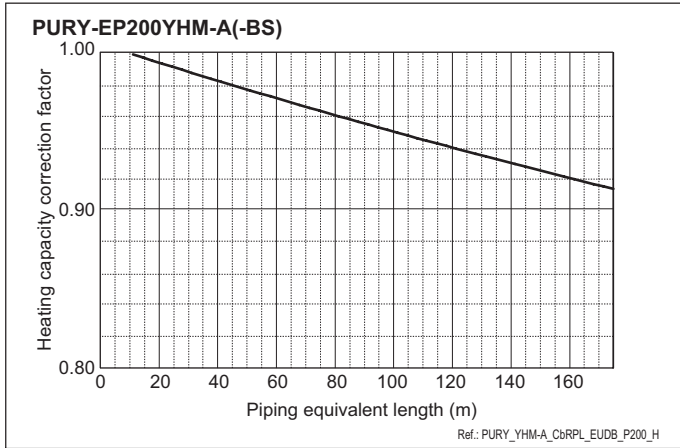
6. CAPACITY TABLES



R2(HIGH COP)

6-3-2. Heating capacity correction

R2(HIGH COP)



6-3-3. How to obtain the equivalent piping length

- 1 PURY-EP200YHM-A(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bends in the piping) m
- 2 PURY-(E)P250,300YHM-A(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bends in the piping) m
- 3 PURY-P350YHM-A(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bends in the piping) m
- 4 PURY-(E)P400,450,500,550,600,650Y(S)HM-A(1)(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bends in the piping) m
- 5 PURY-P700,750,800YSHM-A(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 x number of bends in the piping) m

Ref.: PURY_YHM-A_EqPLTH_EUDB_ALL

6-4. Correction by port counts of the BC controller

Indoor unit sizes P200 and P250 must be connected to 2 ports on the BC controller.

6-5. Correction at frost and defrost

Due to frost at the outdoor heat exchanger and the automatic defrost operation, the heating capacity of the outdoor unit can be calculated by multiplying the correction factor shown in the table below.

Table of correction factor at frosting and defrosting

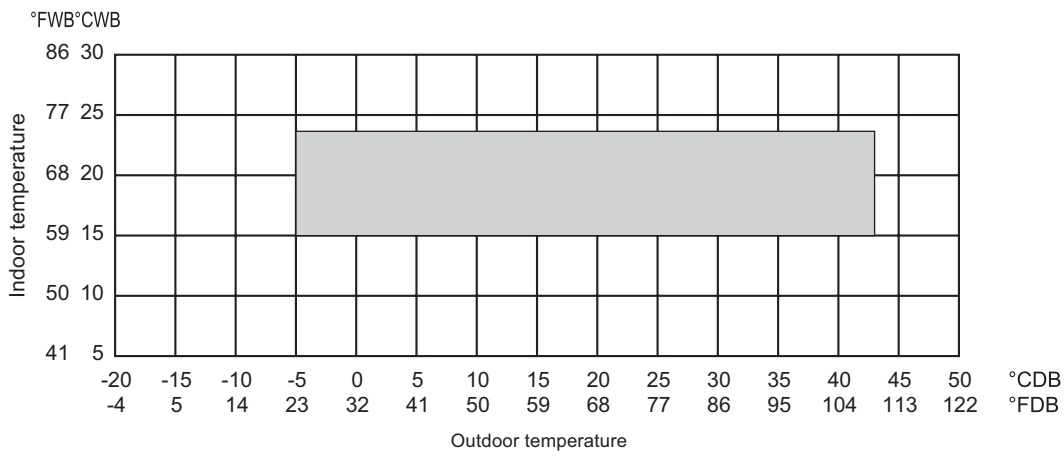
Outdoor inlet air temp. °C	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Outdoor inlet air temp. °F	43	39	36	34	32	28	25	21	18	14	-4
PURY-EP200YHM-A(-BS)	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PURY-(E)P250YHM-A(-BS)	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PURY-(E)P300YHM-A(-BS)	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PURY-P350YHM-A(-BS)	1.00	0.93	0.85	0.83	0.84	0.86	0.90	0.90	0.95	0.95	0.95
PURY-(E)P400Y(S)HM-A(-BS)	1.00	0.95	0.90	0.87	0.88	0.89	0.90	0.95	0.95	0.95	0.95
PURY-EP450YSHM-A1(-BS)	1.00	0.98	0.89	0.87	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-(E)P500YSHM-A(-BS)	1.00	0.98	0.89	0.86	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-(E)P550YSHM-A(1)(-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PURY-(E)P600YSHM-A(-BS)	1.00	0.94	0.84	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PURY-P650YSHM-A(-BS)	1.00	0.94	0.84	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PURY-P700YSHM-A(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-P750YSHM-A(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-P800YSHM-A(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95

Ref.: PURY_YHM-A_CbFROST_EUDB_ALL

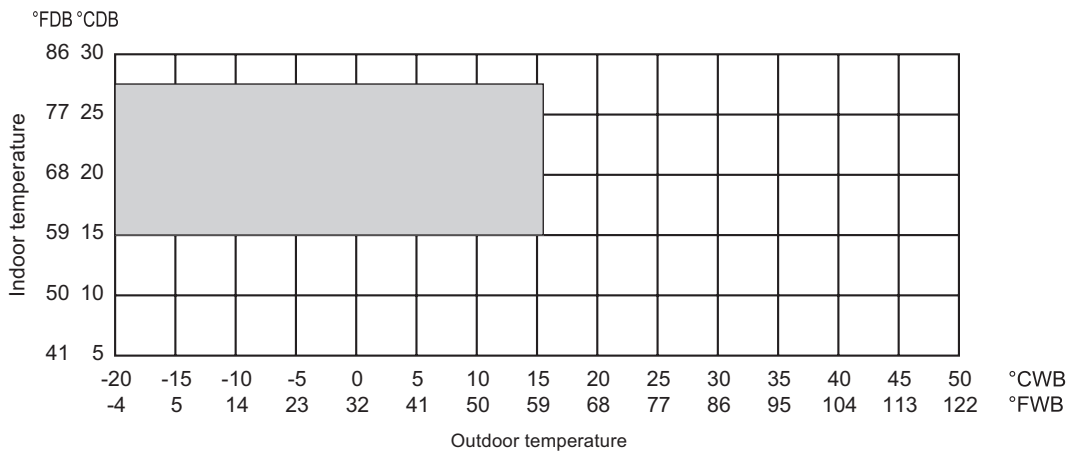
R2(HIGH COP)

6-6. Operation temperature range

• Cooling



• Heating



• Combination of cooling/heating operation (Cooling main or Heating main)

Outdoor temperature	Indoor temperature	
	Cooling	Heating
-5 to 21°CDB (23 to 70°FDB)	—	15 to 27°CDB (59 to 81°FDB)
-6 to 15.5°CWB (21 to 60°FWB)	15 to 24°CWB (59 to 75°FWB)	—

Ref.: PURY_YHM-A_TMPRNG_EUDB_ALL

7-1. JOINT

Piping for CITY MULTI can be easily done with Joints and headers provided by MITSUBISHI ELECTRIC CORP..

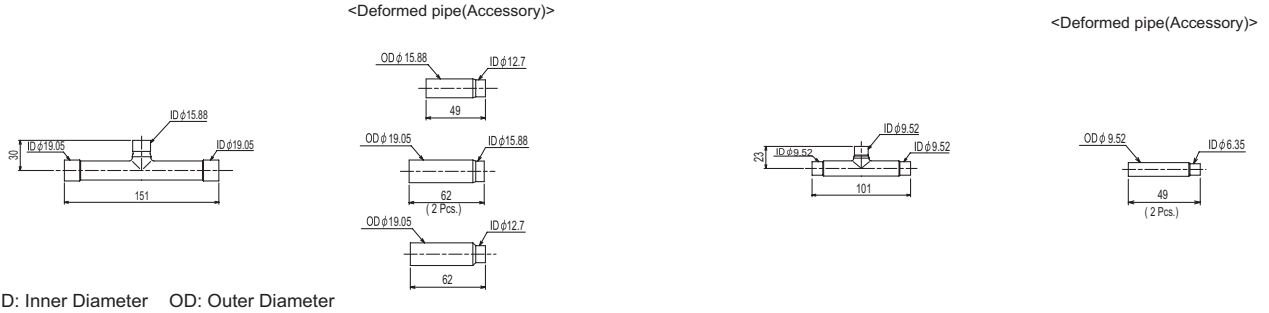
There are 3 sets of Joints selectable for piping. Details for applying the Joint sets are referable to System Design 3, or their own Installation Manual.

CMY-Y102S-G2

Ref.: CMY_Y102S_G2_EXD_EUDB_SI mm

For Gas pipe:

For Liquid pipe:

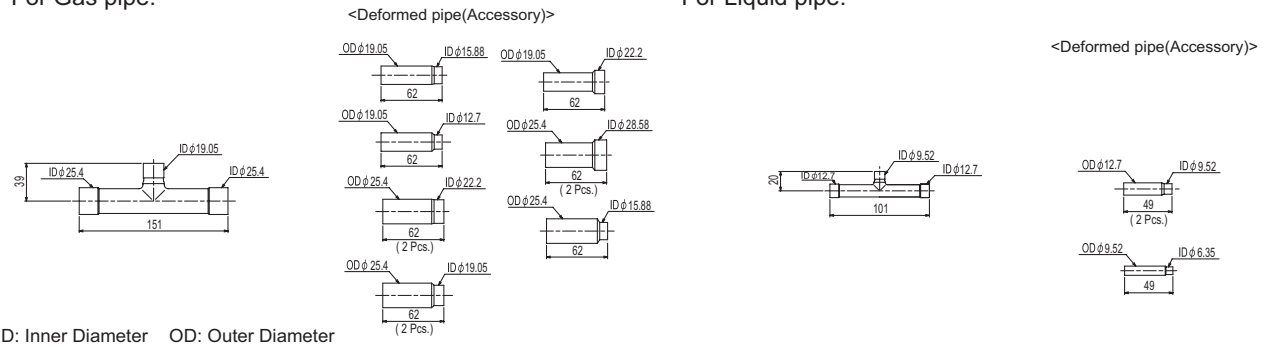


CMY-Y102L-G2

Ref.: CMY_Y102L_G2_EXD_EUDB_SI mm

For Gas pipe:

For Liquid pipe:

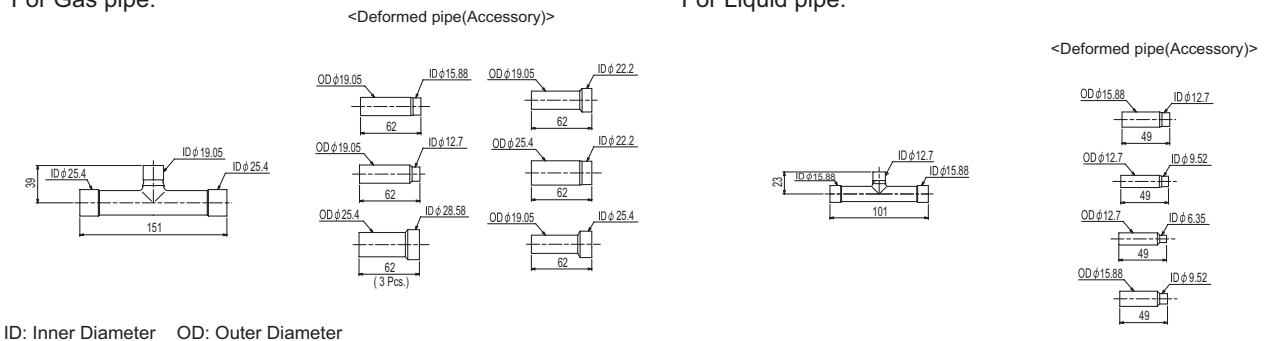


CMY-Y202-G2

Ref.: CMY_Y202_G2_EXD_EUDB_SI mm

For Gas pipe:

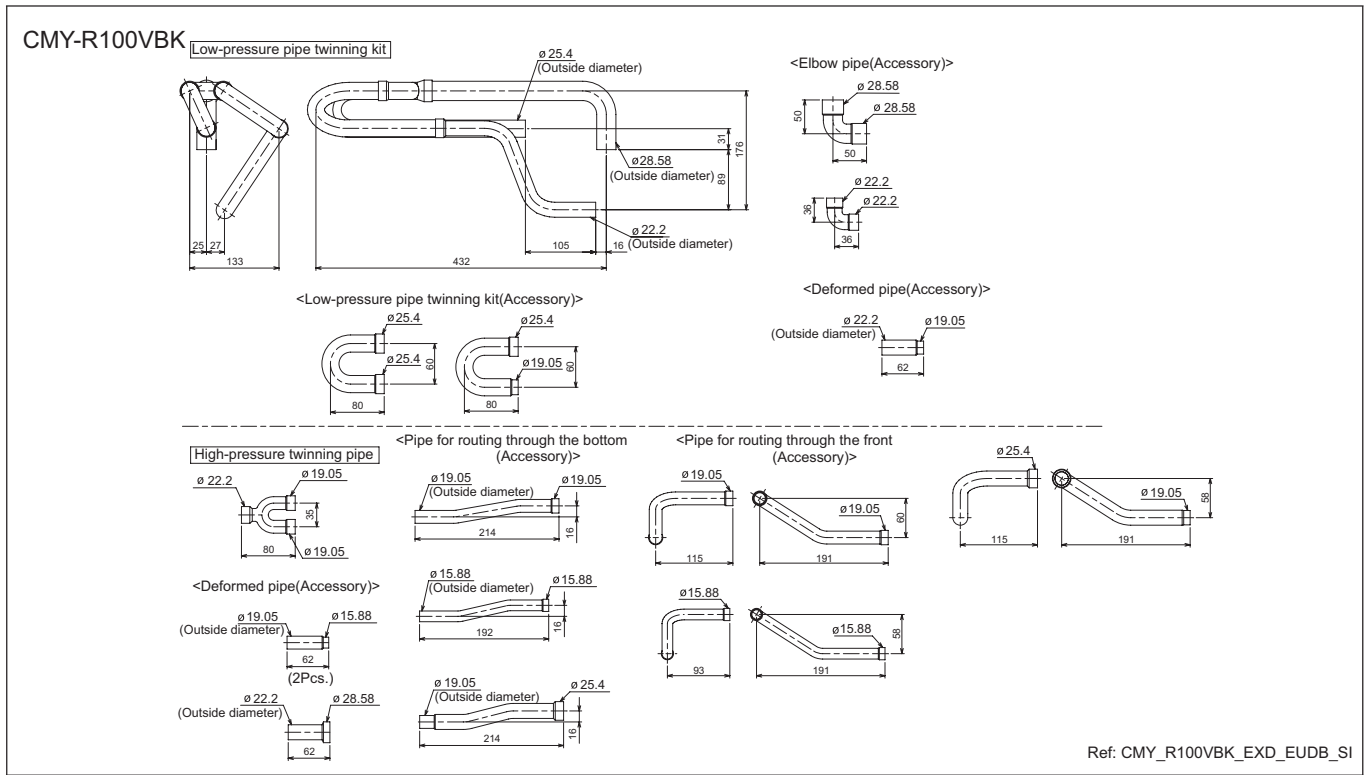
For Liquid pipe:



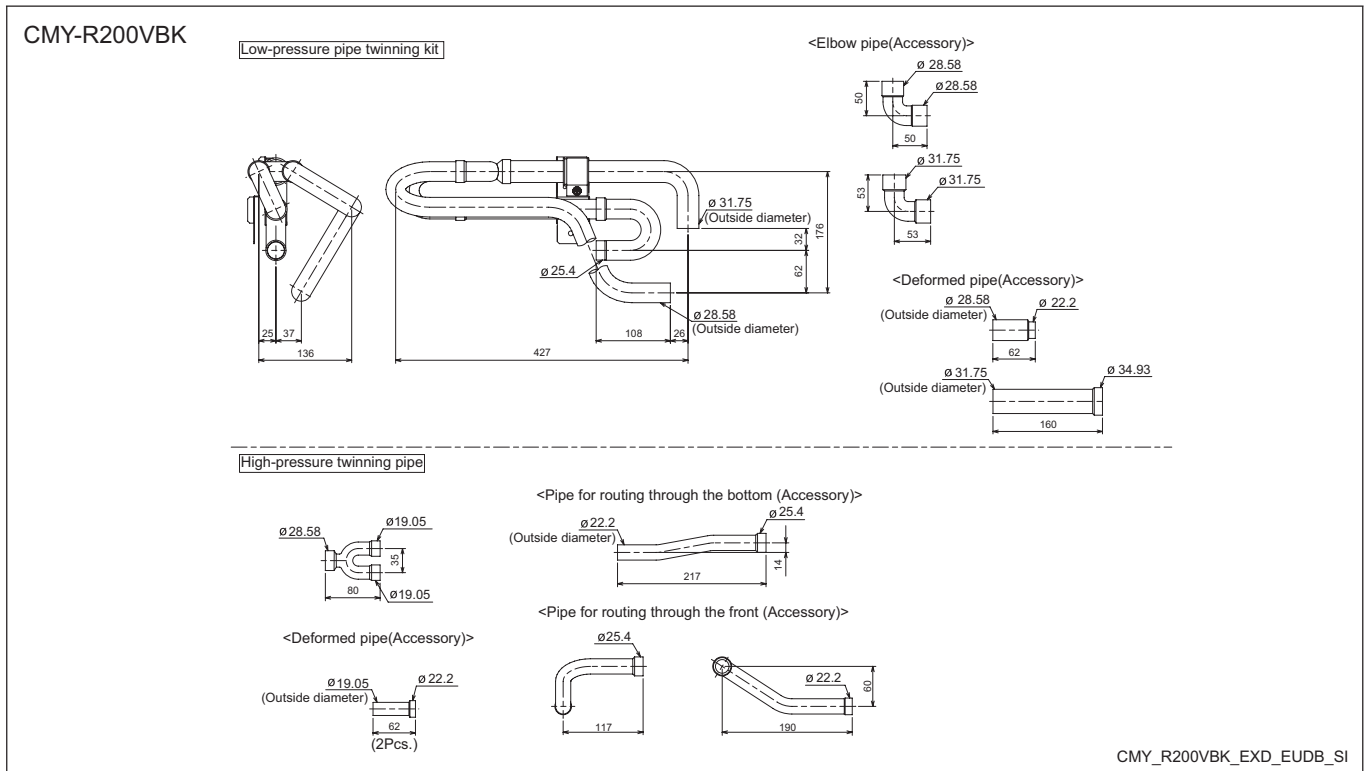
R2(HIGH COP)

7-2. OUTDOOR TWINNING KIT

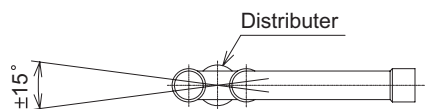
For PURY-(E)P-YSHM-A, following optional Outdoor Twinning Kit is needed to use to combine to refrigerant flows of its PURY-(E)P-YHM-A. Details of selecting the proper kit should be referred to the System Design Section.



R2(HIGH COP)



Note 1. Reference the attitude angle of the branch pipe below the fig.



The angle of the branch pipe for high pressure is within $\pm 15^\circ$ against the horizontal plane.

2. Use the attached pipe to braze the port-opening of the distributor.
3. Pipe diameter is indicated by inside diameter.

7-3. JOINT KIT CMY-R160-J FOR BC CONTROLLER

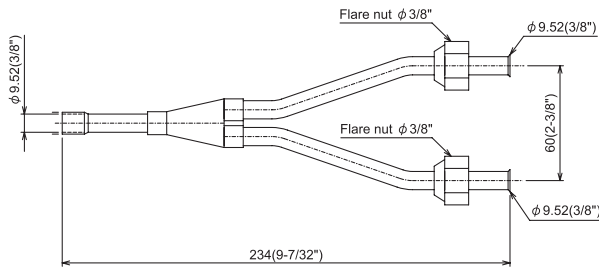
Joint kit "CMY-R160-J" for BC controller is used to combine 2 ports of the BC controller at a PURY-(E)P-Y(S)HM-A system so as to enable down-stream Indoor capacity above P80 as shown in Fig. 1.

The Joint kit include following items:

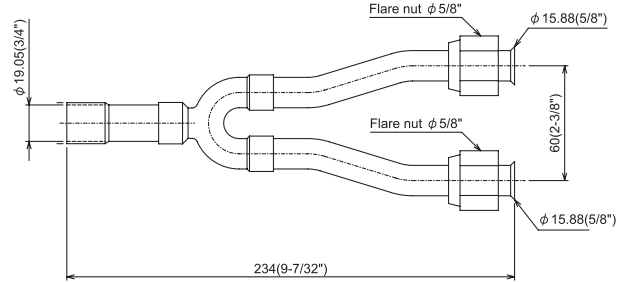
① Instruction	② Joint pipe (for liquid side)	③ Joint pipe (for gas side)	④ Cover 1	⑤ Cover 2 (for gas side)	⑥ Cover 3 (for liquid side)	⑦ Band	⑧ Reducer
This sheet 1pc	1pc	1pc	2pcs	1pc	1pc	8pcs	2pc

Ref.: WT04350X01_01

② Joint pipe (for liquid side)



③ Joint pipe (for gas side)



mm(in.)

Ref.: W901616

1. Designing CMY-R160-J to a PURY-(E)P-Y(S)HM-A system

The maximum down-stream Indoor capacity for 1 port of BC controller is P140. When the down-stream Indoor capacity is above P140, Joint kit CMY-R160-J is needed to combined 2 ports of BC controller to enlarge the capacity, like Group 2 and 3 in Fig. 1.

Maximum 3 Indoor units are allowed to connect to 1 port of BC controller or 2 combined ports of BC controller using CMY-R160-J.

When connecting Indoor units to 1 port of BC controller or 2 combined ports of BC controller using CMY-R160-J or CMY-Y102S-G2 is applicable, like Group 1 and 2 in Fig. 1

Caution: Mixed cooling and heating mode at the same time for Indoor units connecting to 1 port or 2 combined ports is not available.

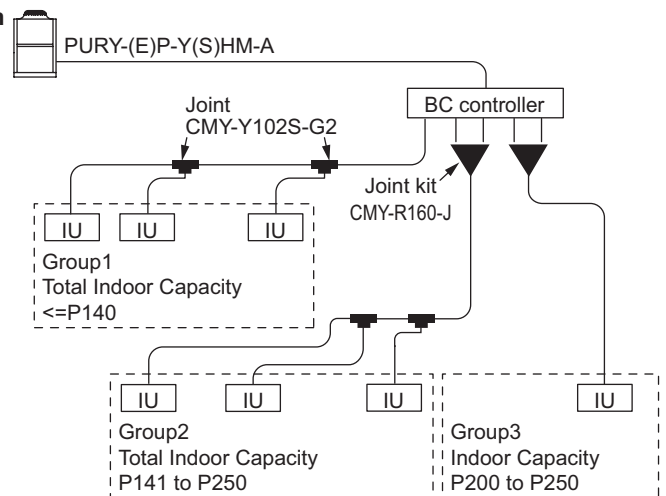


Fig.1. CMY-R160-J applying scheme

Ref.: WT04350X01_02

2. Piping at the installation site

The connection of CMY-R160-J to BC controller and pipe leading to Indoor units is referable to Fig. 2. Non-oxidized brazing is necessary. All piping must be careful to avoid foreign material getting inside.

After piping and air-tight testing, insulation work to the Joint and pipe should be done. Details is available at the Installation Manual.

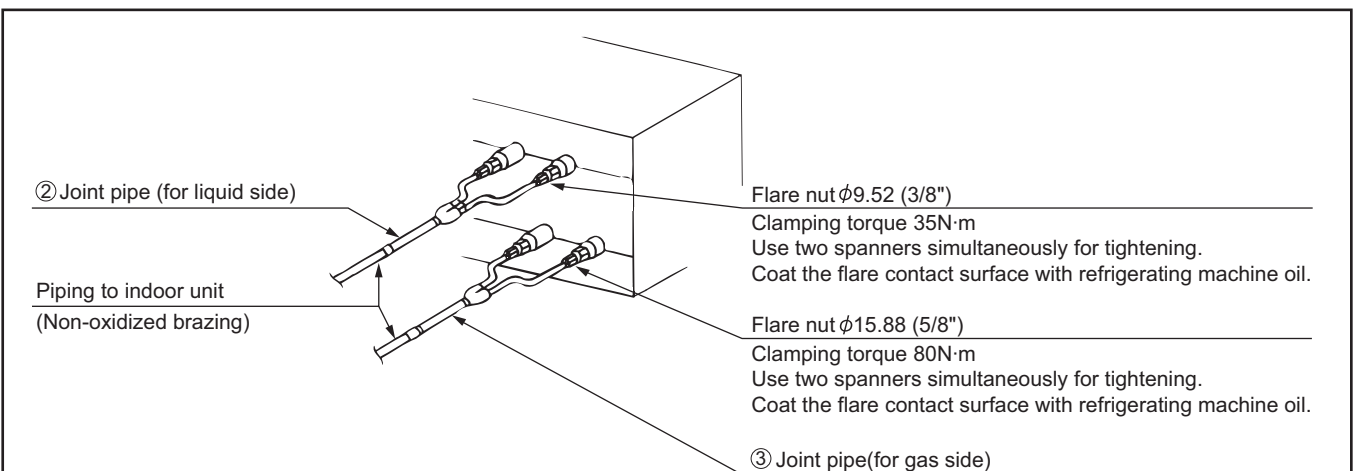


Fig.2. Connecting CMY-R160-J

Ref.: WT04350X01_03

Ref: CMY_R160_J_DOC_EUDB

R2(HIGH COP)

