

OUTDOOR UNITS

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1. SPECIFICATIONS

DATA G11

Model			PURY-EP200YLM-A1 (-BS)	PURY-EP250YLM-A1 (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	22.4	28.0
		kcal/h	20,000	25,000
		BTU/h	76,400	95,500
	Power input	kW	5.48	7.25
		A	9.2-8.7-8.4	12.2-11.6-11.2
EER	kW/kW	4.08	3.86	
Temp. range of cooling	*3 Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity (Nominal)	*2	kW	25.0	31.5
		kcal/h	21,500	27,100
		BTU/h	85,300	107,500
	Power input	kW	6.41	8.45
		A	10.8-10.2-9.9	14.2-13.5-13.0
COP	kW/kW	3.90	3.72	
Temp. range of heating	*3 Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity		50~150%	50~150% of outdoor unit capacity
	Model/Quantity		P15~P250/1~20	P15~P250/1~25
Sound pressure level (measured in anechoic room)	dB <A>		59	60
Sound power level (measured in anechoic room)	dB <A>		82.5	83.5
Refrigerant piping diameter	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
FAN	Type x Quantity		Propeller fan x 1	
	Air flow rate	m ³ /min	185	185
		L/s	3,083	3,083
		cfm	6,532	6,532
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	
Motor output	kW	0.92 x 1	0.92 x 1	
*4 External static press.		0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)	
Compressor	Type		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	
	Motor output	kW	5.6	6.9
	Case heater	kW	- (- V)	- (- V)
	Lubricant		MEL32	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D			mm 1,710 (1,650 without legs) x 920 x 740 in. 67-3/8 (65 without legs) x 36-1/4 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	
	Compressor		-	
	Fan motor		-	
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)	
	Control		Indoor LEV and BC controller	
Net weight			kg (lbs) 202 (446)	
Heat exchanger			Salt-resistant cross fin & aluminium tube	
HIC circuit (HIC: Heat Inter-Changer)			-	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle, Hot gas)	
Drawing	External		WKJ94T756	
	Wiring		WKE94G041	
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	
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:

- Nominal cooling conditions (subject to JIS B8615-1)
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-1)
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.)
- 5°C D.B. (23°F D.B.)/6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)
with cooling/heating mixed operation.
- External static pressure option is available (30 Pa, 60 Pa/3.1 mmH₂O, 6.1 mmH₂O).

Unit converter

BTU/h	=kW x 3,412
cfm	=m ³ /min x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

DATA G11

Model			PURY-EP300YLM-A1 (-BS)	PURY-EP350YLM-A1 (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz			
Cooling capacity (Nominal)	*1	kW	33.5	40.0		
		kcal/h	30,000	35,000		
		BTU/h	114,300	136,500		
	Power input	kW	9.20	12.57		
	Current input	A	15.5-14.7-14.2	21.2-20.1-19.4		
EER			kW/kW	3.64	3.18	
Temp. range of cooling	*3	Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	
		Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	37.5	45.0		
		kcal/h	32,300	40,000		
		BTU/h	128,000	153,500		
	Power input	kW	9.97	12.93		
	Current input	A	16.8-15.9-15.4	21.8-20.7-19.9		
COP			kW/kW	3.76	3.48	
Temp. range of heating	*3	Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	
		Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		50~150% of outdoor unit capacity	
	Model/Quantity		P15~P250/1~30		P15~P250/1~35	
Sound pressure level (measured in anechoic room)		dB <A>	62.5		62.5	
Sound power level (measured in anechoic room)		dB <A>	86		86	
Refrigerant piping diameter	High pressure	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4) Brazed	
	Low pressure	mm (in.)	22.2 (7/8) Brazed		28.58 (1-1/8) Brazed	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m ³ /min	230		230	
		L/s	3,833		3,833	
		cfm	8,121		8,121	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
Motor output	kW	0.92 x 1		0.92 x 1		
*4 External static press.		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		
Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	8.1		10.5	
	Case heater	kW	- (- V)		- (- V)	
	Lubricant		MEL32		MEL32	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D			mm 1,710 (1,650 without legs) x 1,220 x 740 in. 67-3/8 (65 without legs) x 48-1/16 x 29-3/16		mm 1,710 (1,650 without legs) x 1,220 x 740 in. 67-3/8 (65 without legs) x 48-1/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		-		-	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)	
	Control		Indoor LEV and BC controller		Indoor LEV and BC controller	
Net weight		kg (lbs)	244 (538)		244 (538)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
HIC circuit (HIC: Heat Inter-Changer)			-		-	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle, Hot gas)		Auto-defrost mode (Reversed refrigerant cycle, Hot gas)	
Drawing	External		WKJ94T757		WKJ94T757	
	Wiring		WKE94G041		WKE94G041	
Standard attachment	Document		Installation Manual		Installation Manual	
	Accessory		Refrigerant conn. pipe		Refrigerant conn. pipe	
Optional parts			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1		Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	
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:	Unit converter
1.Nominal cooling conditions (subject to JIS B8615-1) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h =kW x 3,412 cfm =m ³ /min x 35.31 lbs =kg/0.4536
2.Nominal heating conditions (subject to JIS B8615-1) 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.-5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.	
4.External static pressure option is available (30 Pa, 60 Pa/3.1 mmH ₂ O, 6.1 mmH ₂ O).	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

DATA G11

Model			PURY-EP400YLM-A1 (-BS)	PURY-EP450YLM-A1 (-BS)
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	45.0	50.0
		kcal/h	40,000	45,000
		BTU/h	153,500	170,600
	Power input	kW	12.56	14.83
		A	21.2-20.1-19.4	25.0-23.7-22.9
EER	kW/kW	3.58	3.37	
Temp. range of cooling	*3 Indoor	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	-5.0~46.0°C (23~115°F)
Heating capacity (Nominal)	*2	kW	50.0	56.0
		kcal/h	43,000	50,000
		BTU/h	170,600	191,100
	Power input	kW	13.40	15.86
		A	22.6-21.4-20.7	26.7-25.4-24.5
COP	kW/kW	3.73	3.53	
Temp. range of heating	*3 Indoor	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity	50~150% of outdoor unit capacity		50~150% of outdoor unit capacity
	Model/Quantity	P15~P250/1~40		P15~P250/1~45
Sound pressure level (measured in anechoic room)	dB <A>	62.5		62.5
Sound power level (measured in anechoic room)	dB <A>	86		86
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 2	
	Air flow rate	m ³ /min	320	
		L/s	5,333	
		cfm	11,299	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	
Motor output	kW	0.92 x 2		
*4 External static press.	0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)	
Compressor	Type		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	
	Motor output	kW	10.9	
	Case heater	kW	- (- V)	
	Lubricant		MEL32	
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D			1,710 (1,650 without legs) x 1,750 x 740 67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	
	Compressor		-	
	Fan motor		-	
Refrigerant	Type x original charge		R410A x 10.5 kg (24 lbs)	
	Control		Indoor LEV and BC controller	
Net weight			315 (695) kg (lbs)	
Heat exchanger			Salt-resistant cross fin & aluminium tube	
HIC circuit (HIC: Heat Inter-Changer)			-	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle, Hot gas)	
Drawing	External		WKJ94T758	
	Wiring		WKE94G042	
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-R160-J1 Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	
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:	Unit converter
1.Nominal cooling conditions (subject to JIS B8615-1) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h =kW x 3,412
2.Nominal heating conditions (subject to JIS B8615-1) 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.)	cfm =m ³ /min x 35.31
3.-5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.	lbs =kg/0.4536
4.External static pressure option is available (30 Pa, 60 Pa/3.1 mmH ₂ O, 6.1 mmH ₂ O).	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

DATA G11

Model		PURY-EP500YLM-A1 (-BS)		
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	56.0	
		kcal/h	50,000	
	*1	BTU/h	191,100	
		Power input	kW	18.30
		Current input	A	30.8-29.3-28.2
		EER	kW/kW	3.06
Temp. range of cooling	*3	Indoor	W.B.	15.0~24.0°C (59~75°F)
		Outdoor	D.B.	-5.0~46.0°C (23~115°F)
Heating capacity (Nominal)	*2	kW	63.0	
		kcal/h	54,200	
	*2	BTU/h	215,000	
		Power input	kW	19.54
		Current input	A	32.9-31.3-30.2
		COP	kW/kW	3.22
Temp. range of heating	*3	Indoor	D.B.	15.0~27.0°C (59~81°F)
		Outdoor	W.B.	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	
	Model/Quantity		P15~P250/1~50	
Sound pressure level (measured in anechoic room)		dB <A>	63.5	
Sound power level (measured in anechoic room)		dB <A>	87	
Refrigerant piping diameter	High pressure		mm (in.)	22.2 (7/8) Brazed
	Low pressure		mm (in.)	28.58 (1-1/8) Brazed
FAN	Type x Quantity		Propeller fan x 2	
	Air flow rate	m ³ /min	380	
		L/s	6,333	
		cfm	13,418	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	
	Motor output		kW	0.92 x 2
*4 External static press.			0 Pa (0 mmH ₂ O)	
Compressor	Type		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	
	Motor output		kW	13.4
	Case heater		kW	0.045 (240 V)
	Lubricant			MEL32
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D		mm	1,710 (1,650 without legs) x 1,750 x 740	
		in.	67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection	
	Compressor		-	
	Fan motor		-	
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)	
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	349 (770)	
Heat exchanger		Salt-resistant cross fin & aluminium tube		
HIC circuit (HIC: Heat Inter-Changer)		-		
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle, Hot gas)		
Drawing	External		WKJ94T758	
	Wiring		WKE94G044	
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts		Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1		
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:	Unit converter
1. Nominal cooling conditions (subject to JIS B8615-1) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h = kW x 3,412 cfm = m ³ /min x 35.31 lbs = kg/0.4536
2. Nominal heating conditions (subject to JIS B8615-1) 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. 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.	
4. External static pressure option is available (30 Pa, 60 Pa/3.1 mmH ₂ O, 6.1 mmH ₂ O).	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

DATA G11

Model			PURY-EP550YSLM-A1 (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	63.0		
		kcal/h	54,200		
		BTU/h	215,000		
	Power input	kW	17.35		
		Current input	A	29.2-27.8-26.8	
EER		kW/kW	3.63		
Temp. range of cooling	*3	Indoor	W.B.	15.0~24.0°C (59~75°F)	
		Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	69.0		
		kcal/h	59,300		
		BTU/h	235,400		
	Power input	kW	18.44		
		Current input	A	31.1-29.5-28.5	
COP		kW/kW	3.74		
Temp. range of heating	*3	Indoor	D.B.	15.0~27.0°C (59~81°F)	
		Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		
	Model/Quantity		P15~P250/2~50		
Sound pressure level (measured in anechoic room)		dB <A>	64.5		
Sound power level (measured in anechoic room)		dB <A>	88		
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed		
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		

Set Model

Model			PURY-EP250YLM-A1 (-BS)			PURY-EP300YLM-A1 (-BS)		
FAN	Type x Quantity		Propeller fan x 1			Propeller fan x 1		
	Air flow rate	m ³ /min	185			230		
		L/s	3,083			3,833		
		cfm	6,532			8,121		
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
	Motor output	kW	0.92 x 1			0.92 x 1		
*4	External static press.		0 Pa (0 mmH ₂ O)			0 Pa (0 mmH ₂ O)		
Compressor	Type		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION			AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter			Inverter		
	Motor output	kW	6.9			8.1		
	Case heater	kW	- (- V)			- (- V)		
	Lubricant		MEL32			MEL32		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D			mm 1,710 (1,650 without legs) x 920 x 740			mm 1,710 (1,650 without legs) x 1,220 x 740		
			in. 67-3/8 (65 without legs) x 36-1/4 x 29-3/16			in. 67-3/8 (65 without legs) x 48-1/16 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		-			-		
	Fan motor		-			-		
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)			R410A x 8.0 kg (18 lbs)		
	Control		Indoor LEV and BC controller					
Net weight		kg (lbs)	202 (446)			244 (538)		
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
HIC circuit (HIC: Heat Inter-Changer)			-			-		
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			-		
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle, Hot gas)					
Drawing	External		WKJ94T760					
	Wiring		WKE94G041			WKE94G041		
Standard attachment	Document		Installation Manual					
	Accessory		Refrigerant conn. pipe					
Optional parts			Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1					
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:

- Nominal cooling conditions (subject to JIS B8615-1)
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-1)
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.)
- 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)
with cooling/heating mixed operation.
- External static pressure option is available (30 Pa, 60 Pa/3.1 mmH₂O, 6.1 mmH₂O).

Unit converter

BTU/h	=kW x 3,412
cfm	=m ³ /min x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Model		PURY-EP600YSLM-A1 (-BS)	
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1 kW	69.0	
	kcal/h	59,300	
	*1 BTU/h	235,400	
	Power input	kW	19.54
	Current input	A	32.9-31.3-30.2
	EER	kW/kW	3.53
Temp. range of cooling	*3 Indoor	W.B.	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)
Heating capacity (Nominal)	*2 kW	76.5	
	kcal/h	65,800	
	*2 BTU/h	261,000	
	Power input	kW	20.34
	Current input	A	34.3-32.6-31.4
	COP	kW/kW	3.76
Temp. range of heating	*3 Indoor	D.B.	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity		
	50~150% of outdoor unit capacity		
	Model/Quantity		
	P15-P250/2-50		
Sound pressure level (measured in anechoic room)	dB <A>		65.5
Sound power level (measured in anechoic room)	dB <A>		89
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed

Set Model

Model		PURY-EP300YLM-A1 (-BS)		PURY-EP300YLM-A1 (-BS)		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m ³ /min	230		230	
		L/s	3,833		3,833	
		cfm	8,121		8,121	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1		0.92 x 1	
	*4 External static press.	0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)
Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	8.1		8.1	
	Case heater	kW	- (- V)		- (- V)	
	Lubricant		MEL32		MEL32	
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D		mm		mm		
		in.		in.		
		1,710 (1,650 without legs) x 1,220 x 740		1,710 (1,650 without legs) x 1,220 x 740		
		67-3/8 (65 without legs) x 48-1/16 x 29-3/16		67-3/8 (65 without legs) x 48-1/16 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		-		-	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)	
	Control		Indoor LEV and BC controller			
Net weight	kg (lbs)		244 (538)		244 (538)	
Heat exchanger	Salt-resistant cross fin & aluminium tube					
HIC circuit (HIC: Heat Inter-Changer)	-					
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed		19.05 (3/4)	
	Low pressure	mm (in.)	22.2 (7/8) Brazed		-	
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle, Hot gas)				
Drawing	External		WKJ94T761			
	Wiring		WKE94G041		WKE94G041	
Standard attachment	Document		Installation Manual			
	Accessory		Refrigerant conn. pipe			
Optional parts		Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1				
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:

- Nominal cooling conditions (subject to JIS B8615-1)
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-1)
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.)
- 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)
with cooling/heating mixed operation.
- External static pressure option is available (30 Pa, 60 Pa/3.1 mmH₂O, 6.1 mmH₂O).

Unit converter	
BTU/h	=kW x 3,412
cfm	=m ³ /min x 35.31
lbs	=kg/0.4536
*Above specification data is subject to rounding variation.	

1. SPECIFICATIONS

DATA G11

Model			PURY-EP650YSLM-A1 (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	73.0		
		kcal/h	62,800		
		BTU/h	249,100		
	Power input	kW	22.12		
		Current input	A	37.3-35.4-34.1	
EER		kW/kW	3.30		
Temp. range of cooling	*3 Indoor	W.B.	15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)		
Heating capacity (Nominal)	*2	kW	81.5		
		kcal/h	70,100		
		BTU/h	278,100		
	Power input	kW	22.51		
		Current input	A	38.0-36.1-34.7	
COP		kW/kW	3.62		
Temp. range of heating	*3 Indoor	D.B.	15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		
	Model/Quantity		P15~P250/2~50		
Sound pressure level (measured in anechoic room)		dB <A>	65.5		
Sound power level (measured in anechoic room)		dB <A>	89		
Refrigerant piping diameter	High pressure		28.58 (1-1/8) Brazed		
	Low pressure		28.58 (1-1/8) Brazed		

Set Model			PURY-EP300YLM-A1 (-BS)			PURY-EP350YLM-A1 (-BS)		
Model			Propeller fan x 1			Propeller fan x 1		
FAN	Type x Quantity		230			230		
	Air flow rate	m ³ /min	3,833			3,833		
		L/s	8,121			8,121		
		cfm						
	Control, Driving mechanism		Inverter-control, Direct-driven by motor			Inverter-control, Direct-driven by motor		
*4 External static press.	Motor output		0.92 x 1			0.92 x 1		
	Type		0 Pa (0 mmH ₂ O)			0 Pa (0 mmH ₂ O)		
Compressor	Type		Inverter scroll hermetic compressor			Inverter scroll hermetic compressor		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION			AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter			Inverter		
	Motor output		8.1			10.5		
	Case heater		- (- V)			- (- V)		
	Lubricant		MEL32			MEL32		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D			1,710 (1,650 without legs) x 1,220 x 740 67-3/8 (65 without legs) x 48-1/16 x 29-3/16			1,710 (1,650 without legs) x 1,220 x 740 67-3/8 (65 without legs) x 48-1/16 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection			Over-heat protection, Over-current protection		
	Compressor		-			-		
	Fan motor		-			-		
Refrigerant	Type x original charge		R410A x 8.0 kg (18 lbs)			R410A x 8.0 kg (18 lbs)		
	Control		Indoor LEV and BC controller					
Net weight			244 (538)			244 (538)		
Heat exchanger			Salt-resistant cross fin & aluminium tube			Salt-resistant cross fin & aluminium tube		
HIC circuit (HIC: Heat Inter-Changer)			-			-		
Pipe between unit and distributor	High pressure		19.05 (3/4) Brazed			19.05 (3/4) Brazed		
	Low pressure		22.2 (7/8) Brazed			-		
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle, Hot gas)					
Drawing	External		WKJ94T761					
	Wiring		WKE94G041			WKE94G041		
Standard attachment	Document		Installation Manual					
	Accessory		Refrigerant conn. pipe					
Optional parts			Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1010, 1013, 1016V-GA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1					
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:			Unit converter		
1. Nominal cooling conditions (subject to JIS B8615-1) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)			BTU/h = kW x 3.412		
2. Nominal heating conditions (subject to JIS B8615-1) 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.)			cfm = m ³ /min x 35.31		
3. 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.			lbs = kg/0.4536		
4. External static pressure option is available (30 Pa, 60 Pa/3.1 mmH ₂ O, 6.1 mmH ₂ O).			*Above specification data is subject to rounding variation.		

1. SPECIFICATIONS

DATA G11

Model		PURY-EP700YSLM-A1 (-BS)		
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	80.0	
		kcal/h	68,800	
		BTU/h	273,000	
	Power input	kW	25.97	
	Current input	A	43.8-41.6-40.1	
		EER	3.08	
Temp. range of cooling	*3	Indoor	W.B.	15.0-24.0°C (59-75°F)
		Outdoor	D.B.	-5.0-46.0°C (23-115°F)
Heating capacity (Nominal)	*2	kW	88.0	
		kcal/h	75,700	
		BTU/h	300,300	
	Power input	kW	25.28	
	Current input	A	42.6-40.5-39.0	
		COP	3.48	
Temp. range of heating	*3	Indoor	D.B.	15.0-27.0°C (59-81°F)
		Outdoor	W.B.	-20.0-15.5°C (-4-60°F)
Indoor unit connectable	Total capacity		50-150% of outdoor unit capacity	
	Model/Quantity		P15-P250/2-50	
Sound pressure level (measured in anechoic room)	dB <A>		65.5	
Sound power level (measured in anechoic room)	dB <A>		89	
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed	
	Low pressure	mm (in.)	34.93 (1-3/8) Brazed	

Set Model

Model		PURY-EP350YLM-A1 (-BS)		PURY-EP350YLM-A1 (-BS)	
FAN	Type x Quantity	Propeller fan x 1		Propeller fan x 1	
	Air flow rate	m ³ /min	230	230	230
		L/s	3,833	3,833	3,833
		cfm	8,121	8,121	8,121
	Control, Driving mechanism	Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	Motor output	kW	0.92 x 1	0.92 x 1	0.92 x 1
	*4	External static press.	0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)
Compressor	Type	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Manufacture	AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method	Inverter		Inverter	
	Motor output	kW	10.5	10.5	10.5
	Case heater	kW	- (- V)	- (- V)	- (- V)
	Lubricant	MEL32		MEL32	
External finish	Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D	mm	1,710 (1,650 without legs) x 1,220 x 740		1,710 (1,650 without legs) x 1,220 x 740	
	in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16		67-3/8 (65 without legs) x 48-1/16 x 29-3/16	
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)	Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor	-		-	
	Fan motor	-		-	
Refrigerant	Type x original charge	R410A x 8.0 kg (18 lbs)		R410A x 8.0 kg (18 lbs)	
	Control	Indoor LEV and BC controller			
Net weight	kg (lbs)	244 (538)		244 (538)	
Heat exchanger	Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		
HIC circuit (HIC: Heat Inter-Changer)	-		-		
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed	
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	-	
Defrosting method	Auto-defrost mode (Reversed refrigerant cycle, Hot gas)				
Drawing	External	WKJ94T761			
	Wiring	WKE94G041		WKE94G041	
Standard attachment	Document	Installation Manual			
	Accessory	Refrigerant conn. pipe			
Optional parts	Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1				
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:

- Nominal cooling conditions (subject to JIS B8615-1)
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-1)
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.)
- 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)
with cooling/heating mixed operation.
- External static pressure option is available (30 Pa, 60 Pa/3.1 mmH₂O, 6.1 mmH₂O).

Unit converter	
BTU/h	=kW x 3,412
cfm	=m ³ /min x 35.31
lbs	=kg/0.4536
*Above specification data is subject to rounding variation.	

1. SPECIFICATIONS

DATA G11

Model			PURY-EP750YSLM-A1 (-BS)		
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1	kW	85.0		
		kcal/h	73,100		
		BTU/h	290,000		
	Power input	kW	25.99		
		Current input	A	43.8-41.6-40.1	
EER		kW/kW	3.27		
Temp. range of cooling	*3 Indoor	W.B.	15.0~24.0°C (59~75°F)		
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)		
Heating capacity (Nominal)	*2	kW	95.0		
		kcal/h	81,700		
		BTU/h	324,100		
	Power input	kW	26.38		
		Current input	A	44.5-42.3-40.7	
COP		kW/kW	3.60		
Temp. range of heating	*3 Indoor	D.B.	15.0~27.0°C (59~81°F)		
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)		
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity		
	Model/Quantity		P15~P250/2~50		
Sound pressure level (measured in anechoic room)			dB <A>		
			65.5		
Sound power level (measured in anechoic room)			dB <A>		
			89		
Refrigerant piping diameter	High pressure		mm (in.)		
	Low pressure		mm (in.)		
				28.58 (1-1/8) Brazed	
				34.93 (1-3/8) Brazed	

Set Model							
Model		PURY-EP350YLM-A1 (-BS)		PURY-EP400YLM-A1 (-BS)			
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2		
	Air flow rate	m ³ /min		230		320	
		L/s		3,833		5,333	
		cfm		8,121		11,299	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor		
*4	Motor output	kW	0.92 x 1		0.92 x 2		
	External static press.		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		
	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
Starting method		Inverter		Inverter			
Motor output		kW	10.5		10.9		
Case heater		kW	- (- V)		- (- V)		
Lubricant		MEL32		MEL32			
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension H x W x D		mm	1,710 (1,650 without legs) x 1,220 x 740		1,710 (1,650 without legs) x 1,750 x 740		
		in.	67-3/8 (65 without legs) x 48-1/16 x 29-3/16		67-3/8 (65 without legs) x 68-15/16 x 29-3/16		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection		
	Compressor		-		-		
	Fan motor		-		-		
Refrigerant	Type x original charge		R410A x 8.0 kg (18 lbs)		R410A x 10.5 kg (24 lbs)		
	Control		Indoor LEV and BC controller				
Net weight		kg (lbs)	244 (538)		315 (695)		
Heat exchanger		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube			
HIC circuit (HIC: Heat Inter-Changer)		-		-			
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed		22.2 (7/8) Brazed		
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		-		
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle, Hot gas)					
Drawing	External		WKJ94T762				
	Wiring		WKE94G041		WKE94G042		
Standard attachment	Document		Installation Manual				
	Accessory		Refrigerant conn. pipe				
Optional parts		Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1					
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:		Unit converter	
1. Nominal cooling conditions (subject to JIS B8615-1) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)		BTU/h	=kW x 3,412
2. Nominal heating conditions (subject to JIS B8615-1) 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.)		cfm	=m ³ /min x 35.31
3. -5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.		lbs	=kg/0.4536
4. External static pressure option is available (30 Pa, 60 Pa/3.1 mmH ₂ O, 6.1 mmH ₂ O).		*Above specification data is subject to rounding variation.	

1. SPECIFICATIONS

Model		PURY-EP800YSLM-A1 (-BS)	
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1 kW	90.0	
	kcal/h	77,400	
	*1 BTU/h	307,100	
	Power input	kW	25.93
	Current input	A	43.7-41.5-40.0
	EER	kW/kW	3.47
Temp. range of cooling	*3 Indoor	W.B.	15.0~24.0°C (59~75°F)
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)
Heating capacity (Nominal)	*2 kW	100.0	
	kcal/h	86,000	
	*2 BTU/h	341,200	
	Power input	kW	26.80
	Current input	A	45.2-42.9-41.4
	COP	kW/kW	3.73
Temp. range of heating	*3 Indoor	D.B.	15.0~27.0°C (59~81°F)
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity		
	Model/Quantity		
Sound pressure level (measured in anechoic room)	dB <A>	65.5	
Sound power level (measured in anechoic room)	dB <A>	89	
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed
	Low pressure	mm (in.)	34.93 (1-3/8) Brazed

Set Model

Model		PURY-EP400YLM-A1 (-BS)		PURY-EP400YLM-A1 (-BS)		
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2		
	Air flow rate	m ³ /min	320		320	
		L/s	5,333		5,333	
		cfm	11,299		11,299	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	*4 Motor output	kW	0.92 x 2		0.92 x 2	
External static press.		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		
Compressor	Type	Inverter scroll hermetic compressor		Inverter scroll hermetic compressor		
	Manufacture	AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		Inverter	
	Motor output	kW	10.9		10.9	
	Case heater	kW	- (- V)		- (- V)	
	Lubricant		MEL32		MEL32	
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D		mm	1,710 (1,650 without legs) x 1,750 x 740		1,710 (1,650 without legs) x 1,750 x 740	
		in.	67-3/8 (65 without legs) x 68-15/16 x 29-3/16		67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		-		-	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 10.5 kg (24 lbs)		R410A x 10.5 kg (24 lbs)	
	Control		Indoor LEV and BC controller			
Net weight	kg (lbs)	315 (695)		315 (695)		
Heat exchanger		Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube		
HIC circuit (HIC: Heat Inter-Changer)		-				
Pipe between unit and distributor	High pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed	
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		-	
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle, Hot gas)				
Drawing	External	WKJ94T763				
	Wiring	WKE94G042		WKE94G042		
Standard attachment	Document	Installation Manual				
	Accessory	Refrigerant conn. pipe				
Optional parts		Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1				
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:

- Nominal cooling conditions (subject to JIS B8615-1)
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-1)
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.)
- 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.)
with cooling/heating mixed operation.
- External static pressure option is available (30 Pa, 60 Pa/3.1 mmH₂O, 6.1 mmH₂O).

Unit converter	
BTU/h	=kW x 3,412
cfm	=m ³ /min x 35.31
lbs	=kg/0.4536
*Above specification data is subject to rounding variation.	

1. SPECIFICATIONS

DATA G11

Model			PURY-EP850YSLM-A1 (-BS)	
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz	
Cooling capacity (Nominal)	*1	kW	96.0	
		kcal/h	82,600	
		BTU/h	327,600	
	Power input	kW	28.48	
		Current input	A	48.0-45.6-44.0
EER		kW/kW	3.37	
Temp. range of cooling	*3 Indoor	W.B.	15.0~24.0°C (59~75°F)	
	Outdoor	D.B.	-5.0~46.0°C (23~115°F)	
Heating capacity (Nominal)	*2	kW	108.0	
		kcal/h	92,900	
		BTU/h	368,500	
	Power input	kW	29.75	
		Current input	A	50.2-47.7-45.9
COP		kW/kW	3.63	
Temp. range of heating	*3 Indoor	D.B.	15.0~27.0°C (59~81°F)	
	Outdoor	W.B.	-20.0~15.5°C (-4~60°F)	
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	
	Model/Quantity		P15~P250/2~50	
Sound pressure level (measured in anechoic room)			dB <A>	
Sound power level (measured in anechoic room)			dB <A>	
Refrigerant piping diameter	High pressure		28.58 (1-1/8) Brazed	
	Low pressure		41.28 (1-5/8) Brazed	

Set Model			PURY-EP400YLM-A1 (-BS)		PURY-EP450YLM-A1 (-BS)	
Model			Propeller fan x 2		Propeller fan x 2	
FAN	Type x Quantity		320		320	
	Air flow rate	m ³ /min	5,333		5,333	
		L/s	11,299		11,299	
		cfm				
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
*4	Motor output	kW	0.92 x 2		0.92 x 2	
	External static press.		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)	
	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
Starting method		Inverter		Inverter		
Compressor	Motor output	kW	10.9		12.4	
	Case heater	kW	- (- V)		- (- V)	
Lubricant		MEL32		MEL32		
External finish			Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D			mm 1,710 (1,650 without legs) x 1,750 x 740 in. 67-3/8 (65 without legs) x 68-15/16 x 29-3/16		mm 1,710 (1,650 without legs) x 1,750 x 740 in. 67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		-		-	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 10.5 kg (24 lbs)		R410A x 11.8 kg (27 lbs)	
	Control		Indoor LEV and BC controller			
Net weight			kg (lbs) 315 (695)		kg (lbs) 336 (741)	
Heat exchanger			Salt-resistant cross fin & aluminium tube		Salt-resistant cross fin & aluminium tube	
HIC circuit (HIC: Heat Inter-Changer)			-		-	
Pipe between unit and distributor	High pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed	
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		-	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle, Hot gas)			
Drawing	External		WKJ94T763			
	Wiring		WKE94G042		WKE94G042	
Standard attachment	Document		Installation Manual			
	Accessory		Refrigerant conn. pipe			
Optional parts			Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1			
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:	Unit converter
1. Nominal cooling conditions (subject to JIS B8615-1) Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.) Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)	BTU/h = kW x 3,412
2. Nominal heating conditions (subject to JIS B8615-1) 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.)	cfm = m ³ /min x 35.31
3. -5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.	lbs = kg/0.4536
4. External static pressure option is available (30 Pa, 60 Pa/3.1 mmH ₂ O, 6.1 mmH ₂ O).	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Model		PURY-EP900YSLM-A1 (-BS)		
Power source		3-phase 4-wire 380-400-415 V 50/60 Hz		
Cooling capacity (Nominal)	*1 kW	101.0		
	kcal/h	86,900		
	*1 BTU/h	344,600		
	Power input	kW	30.98	
	Current input	A	52.2-49.6-47.8	
Temp. range of cooling	*3	Indoor	W.B.	15.0~24.0°C (59~75°F)
		Outdoor	D.B.	-5.0~46.0°C (23~115°F)
		EER	kW/kW	3.26
Heating capacity (Nominal)	*2 kW	113.0		
	kcal/h	97,200		
	*2 BTU/h	385,600		
	Power input	kW	32.01	
	Current input	A	54.0-51.3-49.4	
Temp. range of heating	*3	Indoor	D.B.	15.0~27.0°C (59~81°F)
		Outdoor	W.B.	-20.0~15.5°C (-4~60°F)
Indoor unit connectable	Total capacity		50~150% of outdoor unit capacity	
	Model/Quantity		P15-P250/2-50	
Sound pressure level (measured in anechoic room)		dB <A>	65.5	
Sound power level (measured in anechoic room)		dB <A>	89	
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed	
	Low pressure	mm (in.)	41.28 (1-5/8) Brazed	

Set Model

Model		PURY-EP450YLM-A1 (-BS)		PURY-EP450YLM-A1 (-BS)		
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 2		
	Air flow rate	m ³ /min	320		320	
		L/s	5,333		5,333	
		cfm	11,299		11,299	
	Control, Driving mechanism		Inverter-control, Direct-driven by motor		Inverter-control, Direct-driven by motor	
	*4 Motor output	kW	0.92 x 2		0.92 x 2	
External static press.		0 Pa (0 mmH ₂ O)		0 Pa (0 mmH ₂ O)		
Compressor	Type		Inverter scroll hermetic compressor		Inverter scroll hermetic compressor	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	12.4		12.4	
	Case heater	kW	- (- V)		- (- V)	
	Lubricant		MEL32		MEL32	
External finish		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheets (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D		mm	1,710 (1,650 without legs) x 1,750 x 740		1,710 (1,650 without legs) x 1,750 x 740	
		in.	67-3/8 (65 without legs) x 68-15/16 x 29-3/16		67-3/8 (65 without legs) x 68-15/16 x 29-3/16	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		-		-	
	Fan motor		-		-	
Refrigerant	Type x original charge		R410A x 11.8 kg (27 lbs)		R410A x 11.8 kg (27 lbs)	
	Control		Indoor LEV and BC controller			
Net weight		kg (lbs)	336 (741)		336 (741)	
Heat exchanger		Salt-resistant cross fin & aluminium tube				
HIC circuit (HIC: Heat Inter-Changer)		-				
Pipe between unit and distributor	High pressure	mm (in.)	22.2 (7/8) Brazed		22.2 (7/8) Brazed	
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed		-	
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle, Hot gas)				
Drawing	External		WKJ94T763			
	Wiring		WKE94G042		WKE94G042	
Standard attachment	Document		Installation Manual			
	Accessory		Refrigerant conn. pipe			
Optional parts		Outdoor Twinning kit: CMY-ER200VBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 Main BC controller: CMB-P1016V-HA1 Sub BC controller: CMB-P104, 108V-GB1, CMB-P1016V-HB1				
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:

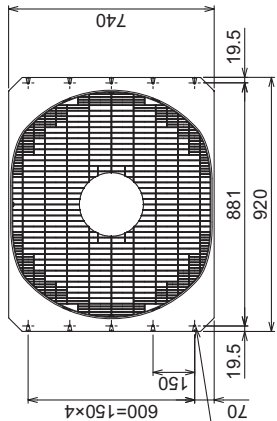
- Nominal cooling conditions (subject to JIS B8615-1)
Indoor: 27°C D.B./19°C W.B. (81°F D.B./66°F W.B.), Outdoor: 35°C D.B./24°C W.B. (95°F D.B./75°F W.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
- Nominal heating conditions (subject to JIS B8615-1)
Indoor: 20°C D.B. (68°F D.B.), 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.)
- 5°C D.B. (23°F D.B.)/-6°C W.B. (21°F W.B.) to 21°C D.B. (70°F D.B.)/15.5°C W.B. (60°F W.B.) with cooling/heating mixed operation.
- External static pressure option is available (30 Pa, 60 Pa/3.1 mmH₂O, 6.1 mmH₂O).

Unit converter	
BTU/h	=kW x 3,412
cfm	=m ³ /min x 35.31
lbs	=kg/0.4536
*Above specification data is subject to rounding variation.	

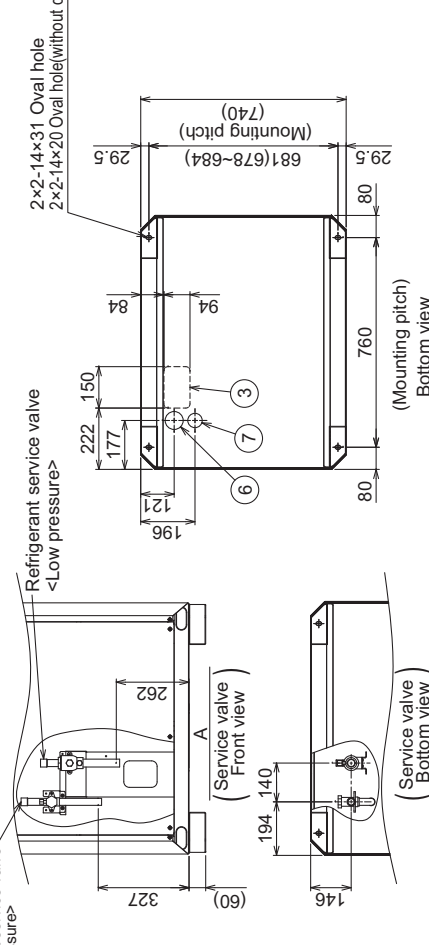
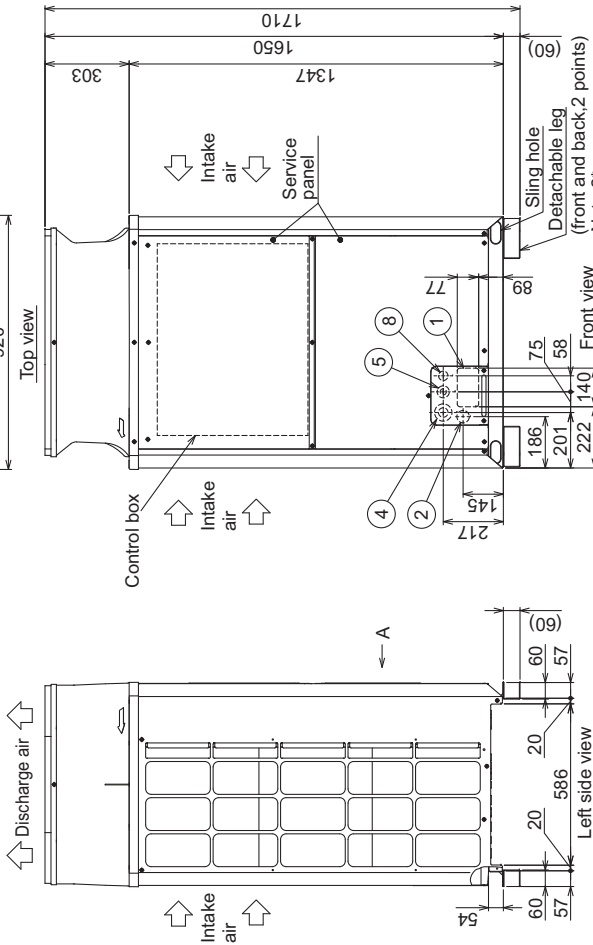
PURY-EP200, 250YLM-A1 (-BS)

Unit : mm

R2 (HIGH COP)



2x5-φ4.6 Hole
(Make hole at the plastic fan guard
for snow hood attachment)
<Snow hood attachment hole>



- <Accessories>
 ●Connecting pipe
 <Low pressure>
 -Pipe (IDø28.58×ODø22.2) ... EP200, EP250 1 pc.
 -Pipe (IDø22.2×ODø19.05) ... EP200 1 pc.
 -Elbow(IDø28.58×ODø28.58) ... EP200, EP250 1 pc.
 <High pressure>
 -Pipe (IDø25.4×IDø15.88) ... EP200 1 pc.
 -Pipe (IDø25.4×ODø15.88) ... EP200 1 pc.
 -Pipe (IDø25.4×IDø19.05) ... EP250 1 pc.
 -Pipe (IDø25.4×ODø19.05) ... EP250 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.

Connecting pipe specifications

Model	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
PURY-EP200YLM-A1(-BS)	ø15.88 Brazed *1	ø19.05 Brazed *1	ø25.4	ø28.58
PURY-EP250YLM-A1(-BS)	ø19.05 Brazed *1	ø22.2 Brazed *1		

*1 Use the included connecting pipe and connect to the refrigerant service valve piping.

NO.	Usage	Specifications
①	Front through hole Front through hole (Uses when twinning kit (optional parts) is mounted.)	140 × 77 Knockout hole
②	For pipes	ø45 Knockout hole
③	Bottom through hole	150 × 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	Bottom through hole	ø52 Knockout hole
⑧	For transmission cables	Front through hole ø34 Knockout hole

PURY-EP200, 250YLM-A1 (-BS)

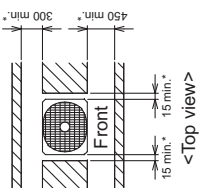
Unit : mm

1. Required space around the unit

● In case of single installation

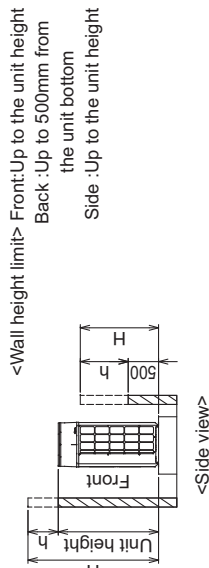
① Secure enough space around the unit as shown in the figure below.

· With a space of at least 300mm to the wall on the back of the unit



<Unit:mm>

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

- 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.>
- 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)
When using a rubber isolating cushion, please ensure it is large enough to cover the entire width of each of the unit's legs.
- The protrusion length of the anchor bolt must not exceed 30mm. (Fig. A, B)
- Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts. (Fig. C, D)
- 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>.
- 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.
- Refer to the Installation Manual when installing units on an installation base.

● In case of collective installation

- 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.
- At least two sides must be left open.
- As with the single installation, add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.
- If there is a wall at both the front and the rear of the unit, install up to six units consecutively in the side direction and provide a space of 1000mm or more as inlet space/ passage space for each six units.

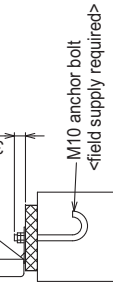
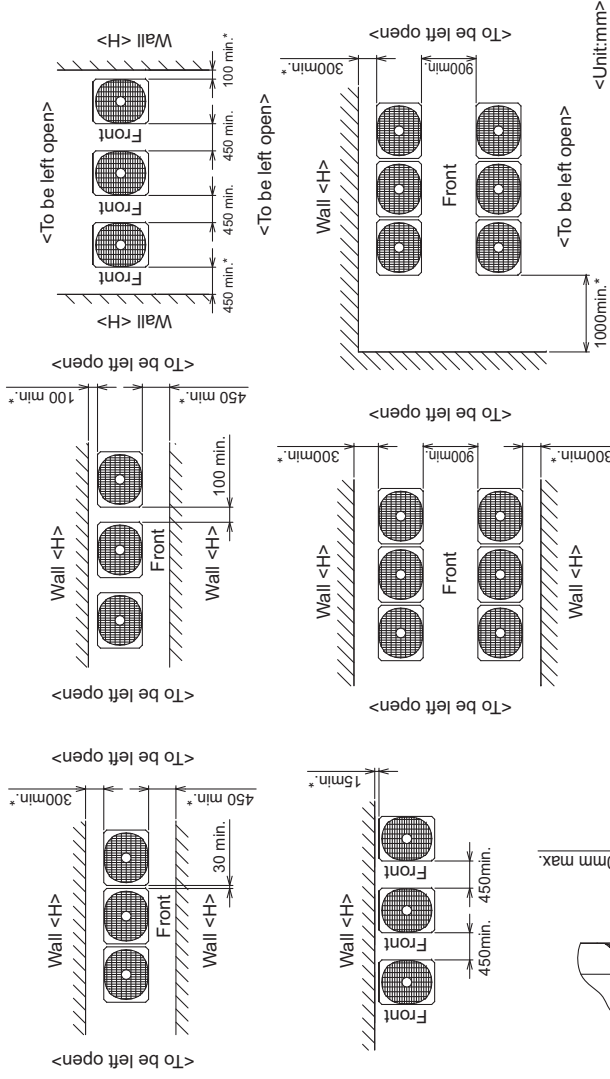


Fig.A (without detachable legs)

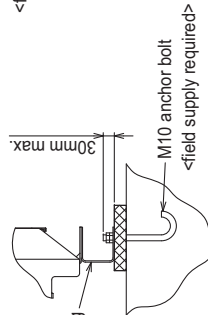


Fig.B (with detachable legs)

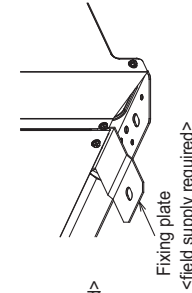


Fig.C (without detachable legs)

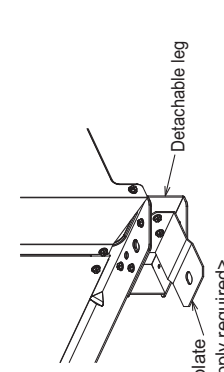


Fig.D (with detachable legs)

PURY-EP300, 350YLM-A1 (-BS)

Unit : mm

- <Accessories>
- Connecting pipe
 - <Low pressure>
 - Pipe (IDø28.58×ODø22.2) ... EP300 1pc.
 - Elbow (IDø28.58×ODø28.58) ... EP300,EP350 1pc.
 - <High pressure>
 - Pipe (IDø25.4×IDø19.05) ... EP300,EP350 1pc.
 - Pipe (IDø25.4×ODø19.05) ... EP300,EP350 1pc.

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

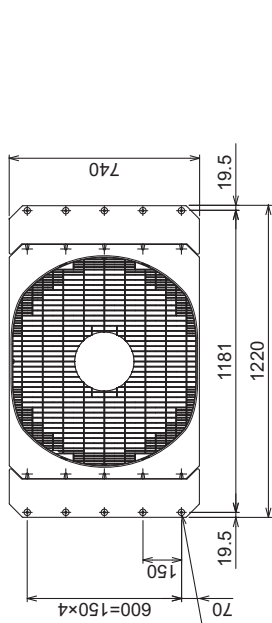
- The detachable leg can be removed at site.
- At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C.

Connecting pipe specifications

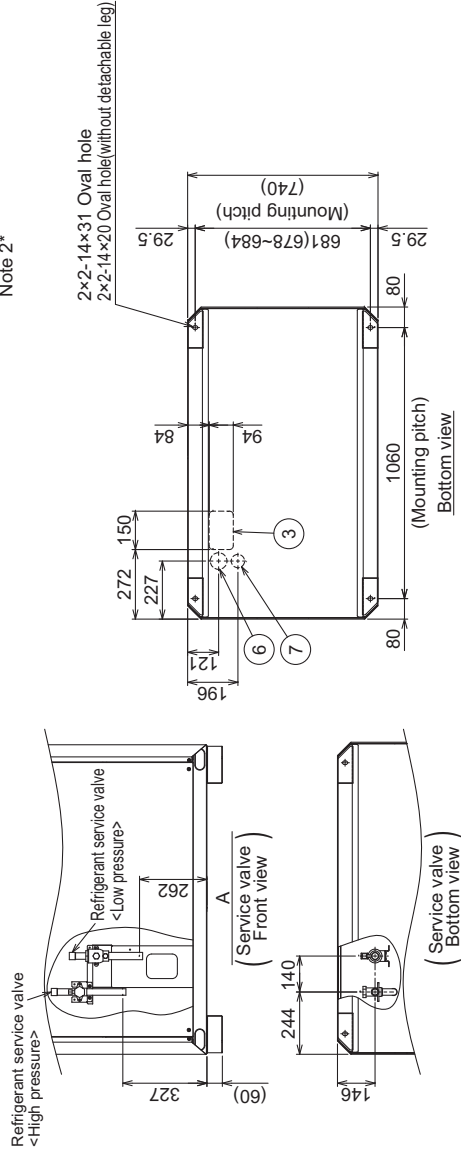
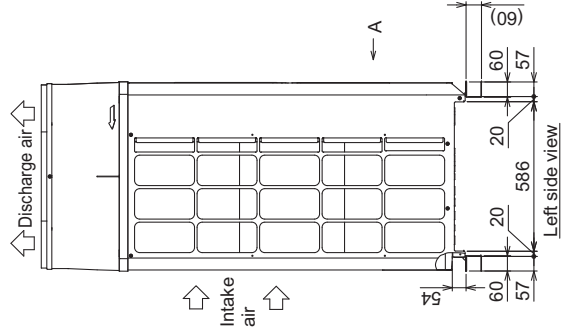
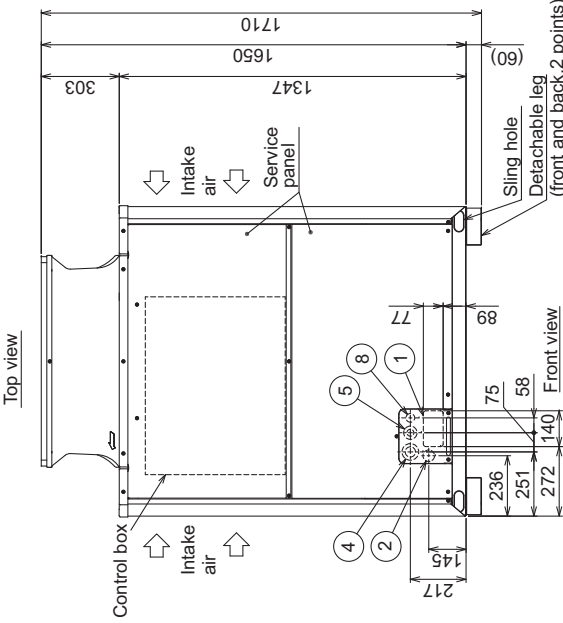
Model	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
PURY-EP300YLM-A1(-BS)	ø22.2 Brazed *1	ø19.05 Brazed *1	ø25.4	ø28.58
PURY-EP350YLM-A1(-BS)	ø28.58 Brazed *1	ø28.58 Brazed *1	ø25.4	ø28.58

*1 Use the included connecting pipe and connect to the refrigerant service valve piping.

NO.	Usage	Specifications
①	Front through hole	140 x 77 Knockout hole
②	Front through hole	(Uses when twinning kit (optional parts) is mounted.)
	Bottom through hole	
③	Bottom through hole	150 x 94 Knockout hole
④	Front through hole	ø65 or ø40 Knockout hole
⑤	Front through hole	ø62 or ø27 Knockout hole
⑥	Bottom through hole	ø65 Knockout hole
⑦	Bottom through hole	ø62 Knockout hole
⑧	Front through hole	ø34 Knockout hole



4×5-ø4.6 Hole (Make hole at the plastic fan guard for snow hood attachment)
<Snow hood attachment hole>



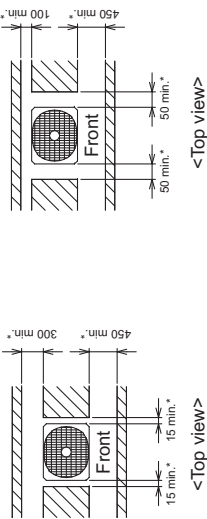
PURY-EP300, 350YLM-A1 (-BS)

Unit : mm

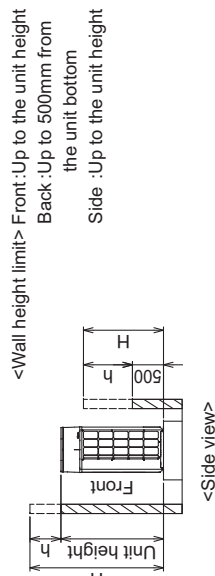
1. Required space around the unit

● 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



- 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)
 When using a rubber isolating cushion, please ensure it is large enough to cover the entire width of each of the unit's legs.
- 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.

● 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.
- ④ If there is a wall at both the front and the rear of the unit, install up to six units consecutively in the side direction and provide a space of 1000mm or more as inlet space/ passage space for each six units.

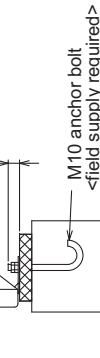
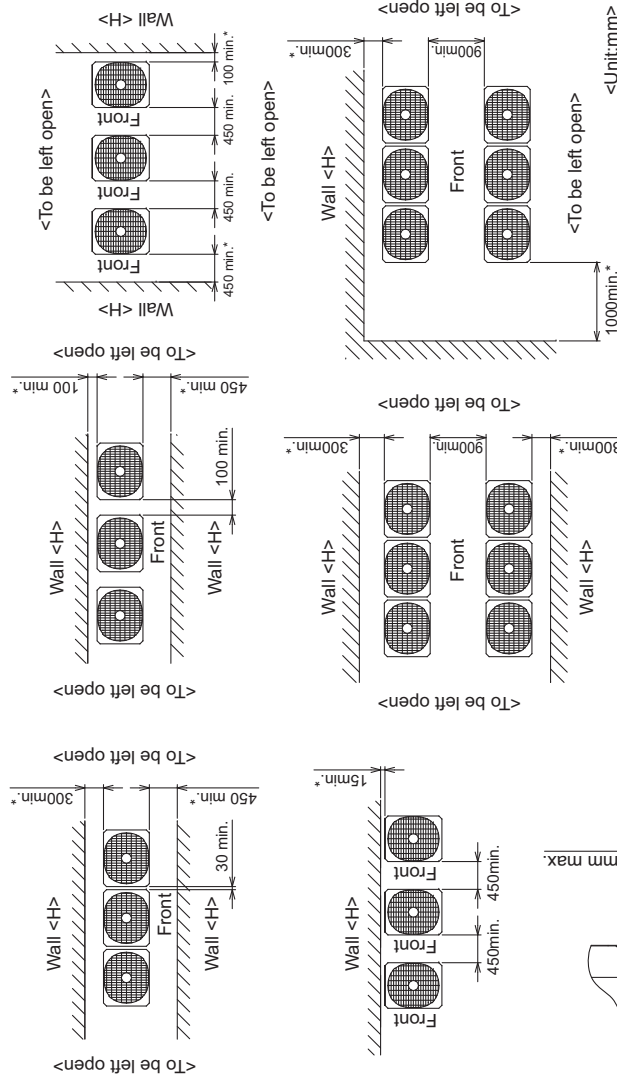


Fig.A (without detachable legs)

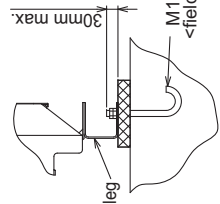


Fig.B (with detachable legs)

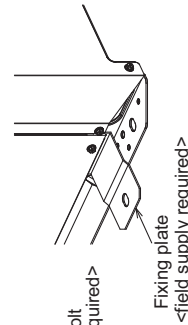


Fig.C (without detachable legs)

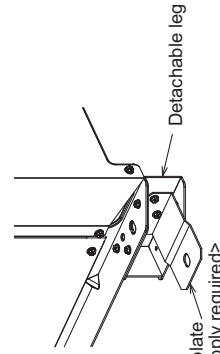


Fig.D (with detachable legs)

PURY-EP400, 450, 500YLM-A1 (-BS)

Unit : mm

- <Accessories>
 •Connecting pipe
 <Low pressure>
 ·Elbow (IDø28.58×ODø28.58) ... EP400, EP450, EP500 1pc.
 <High pressure>
 ·Pipe (IDø25.4×IDø22.2) ... EP400, EP450, EP500 1pc.
 ·Pipe (IDø25.4×ODø22.2) ... EP400, EP450, EP500 1pc.

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

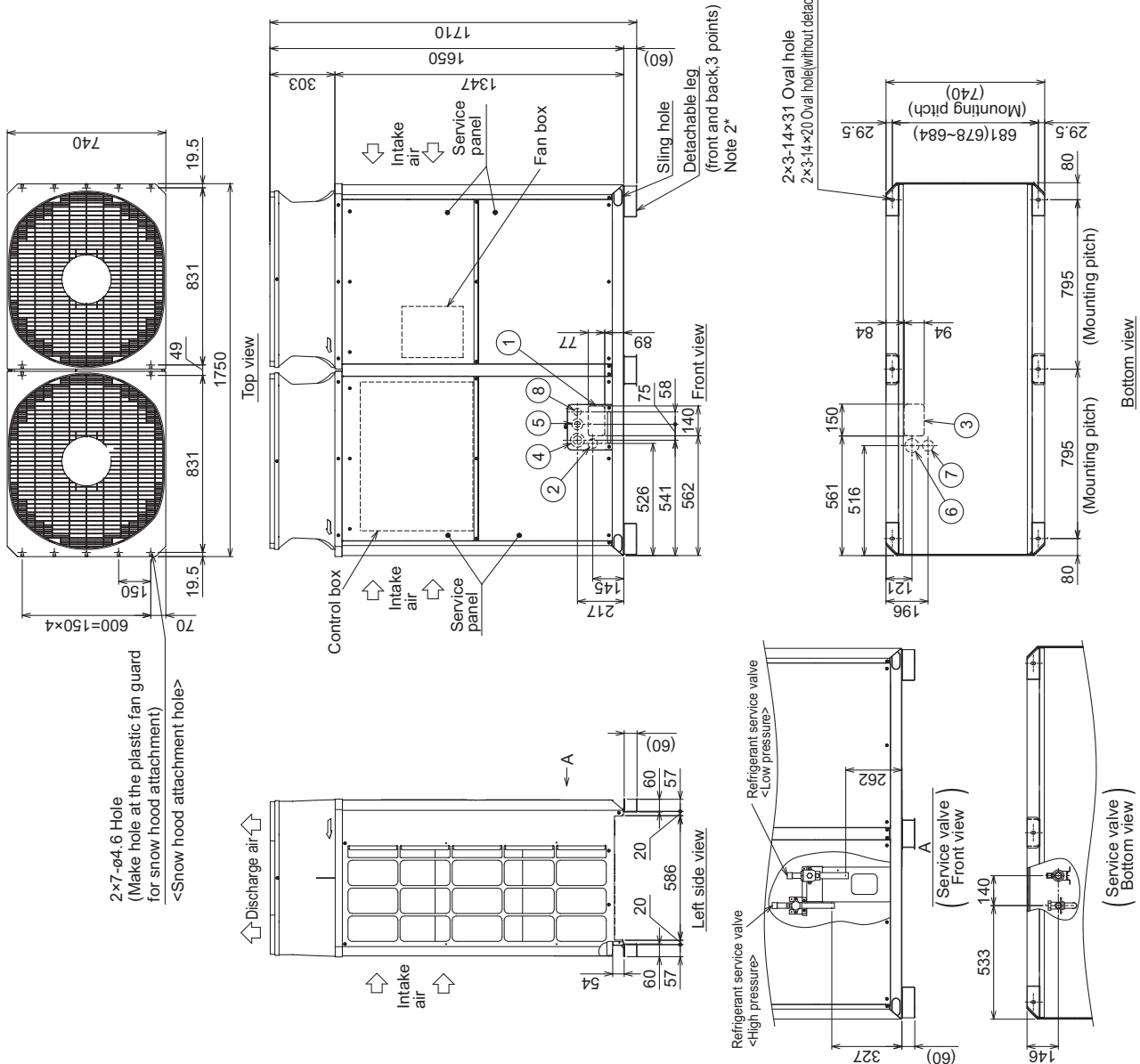
2. The detachable leg can be removed at site.
3. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C.

Connecting pipe specifications

Model	Refrigerant pipe		Diameter	
	High pressure	Low pressure	High pressure	Low pressure
PURY-EP400YLM-A1(-BS)	ø22.2 Brazed *1	ø28.58 Brazed *1	ø25.4	ø28.58
PURY-EP450YLM-A1(-BS)				
PURY-EP500YLM-A1(-BS)				

*1 Use the included connecting pipe and connect to the refrigerant service valve piping.

NO.	Usage	Specifications
①	Front through hole	140 × 77 Knockout hole
②	For pipes (Uses when twinning kit (optional parts) is mounted.)	Front through hole
		Bottom through hole
		150 × 94 Knockout hole
③	For wires	Front through hole
		Bottom through hole
		ø65 or ø40 Knockout hole
④	For transmission cables	Front through hole
		Bottom through hole
⑤		ø65 Knockout hole
⑥		ø65 Knockout hole
⑦		ø65 Knockout hole
⑧		ø34 Knockout hole



R2 (HIGH COP)

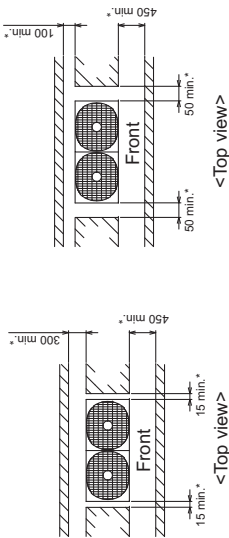
PURY-EP400, 450, 500YLM-A1 (-BS)

Unit : mm

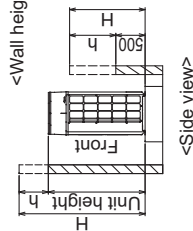
1. Required space around the unit

● In case of single installation

- 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



- 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

- 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.
- 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)
 - When using a rubber isolating cushion, please ensure it is large enough to cover the entire width of each of the unit's legs.
- The protrusion length of the anchor bolt must not exceed 30mm. (Fig.A,B)
- Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts. (Fig.C,D)
 - 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>.
- 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.
- Refer to the Installation Manual when installing units on an installation base.

● In case of collective installation

- 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.
 - At least two sides must be left open.
 - As with the single installation, add the height that exceeds the height limit <h> to the figures that are marked with an asterisk.
 - If there is a wall at both the front and the rear of the unit, install up to three units consecutively in the side direction and provide a space of 1000mm or more as inlet space/ passage space for each three units.

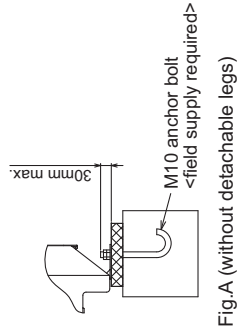
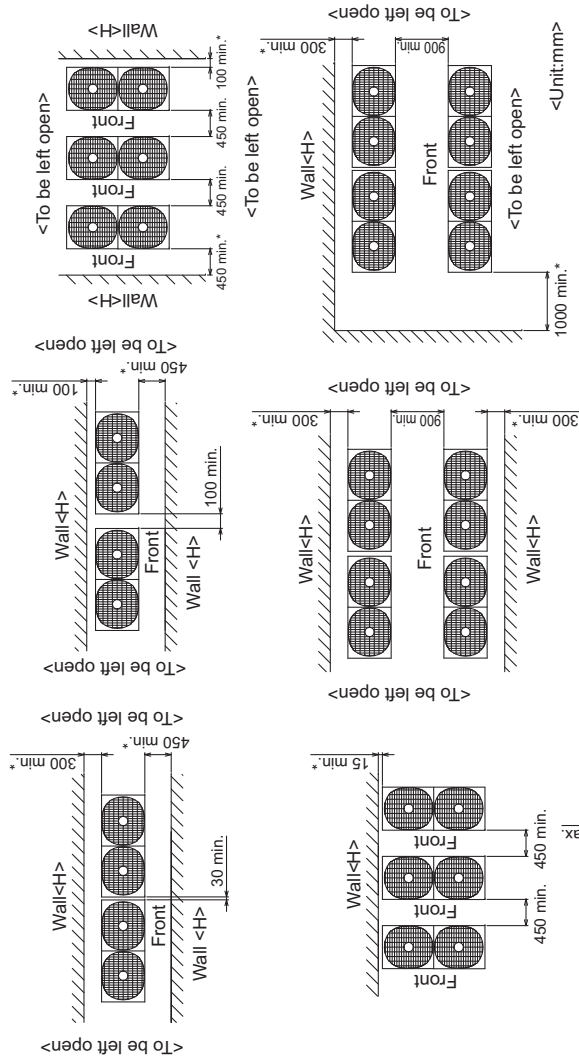


Fig.A (without detachable legs)

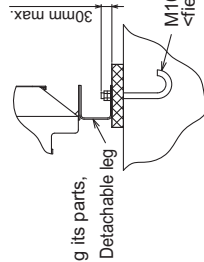


Fig.B (with detachable legs)

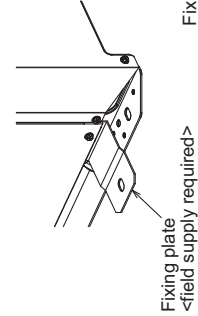


Fig.C (without detachable legs)

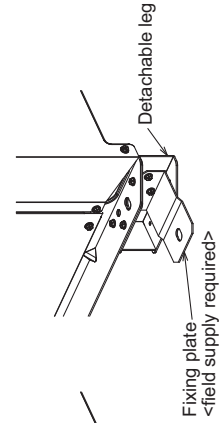
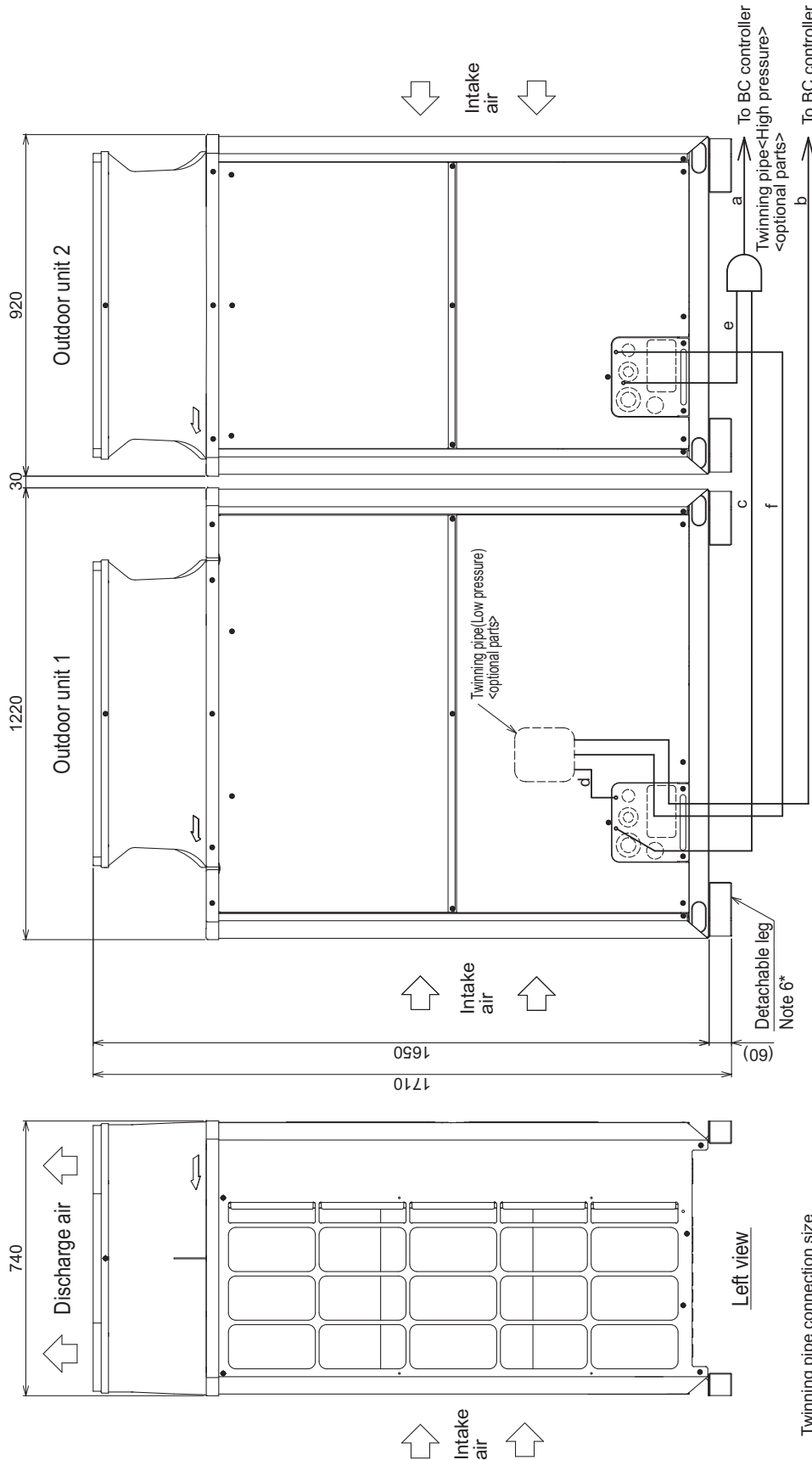


Fig.D (with detachable legs)

PURY-EP550YSLM-A1 (-BS)

Unit : mm

R2 (HIGH COP)

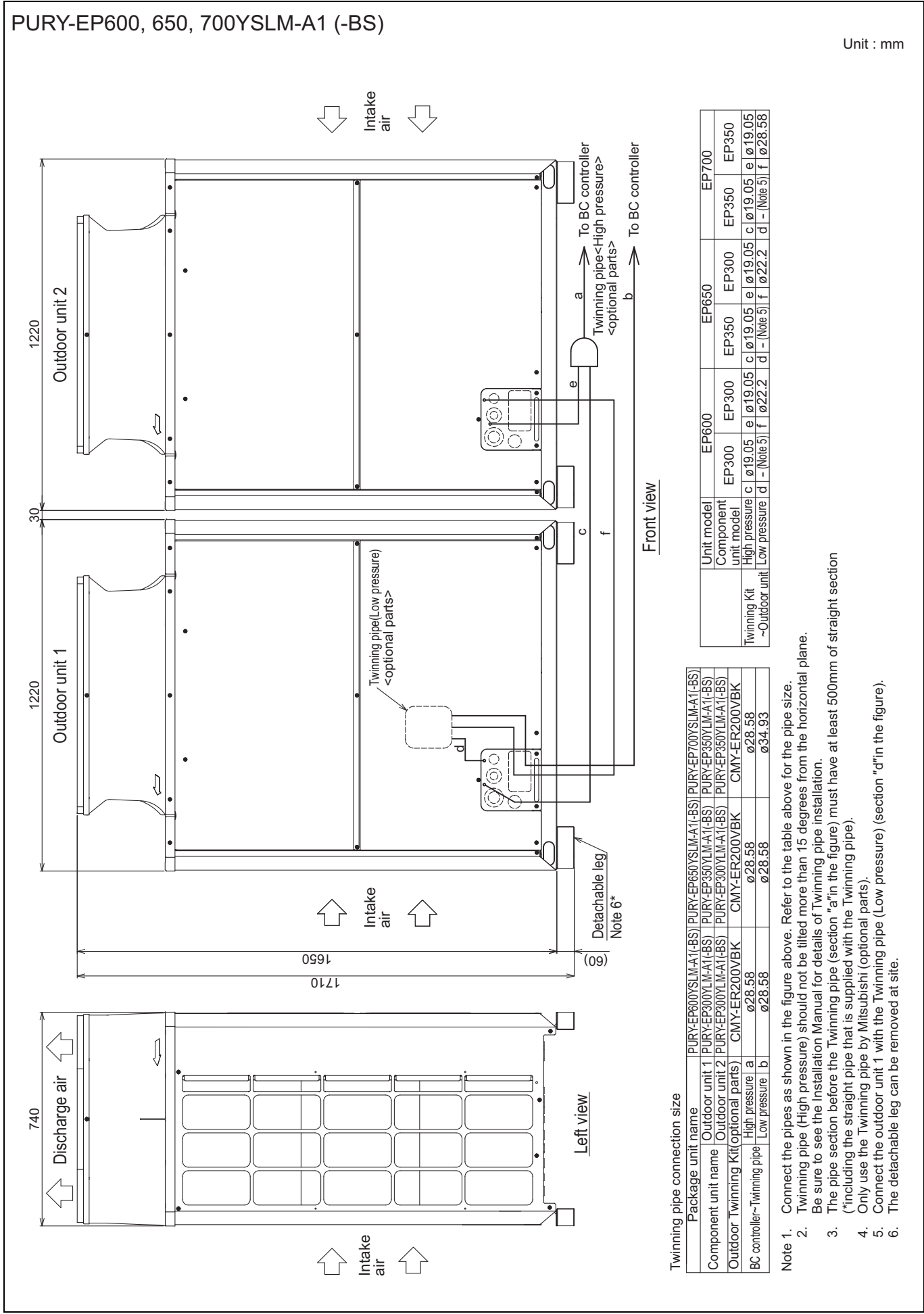


Front view

Twinning pipe connection size		PURY-EP550YSLM-A1(-BS)	
Package unit name	Outdoor unit 1	PURY-EP300YLM-A1(-BS)	
Component unit name	Outdoor unit 2	PURY-EP250YLM-A1(-BS)	
Outdoor Twinning Kit(optional parts)		CMY-ER200VBK	
BC controller~Twinning pipe	High pressure	a	ø28.58
	Low pressure	b	ø28.58

Twinning Kit		EP550	
~Outdoor unit	High pressure	c	ø19.05
	Low pressure	d	- (Note 5)
		e	ø19.05
		f	ø22.2

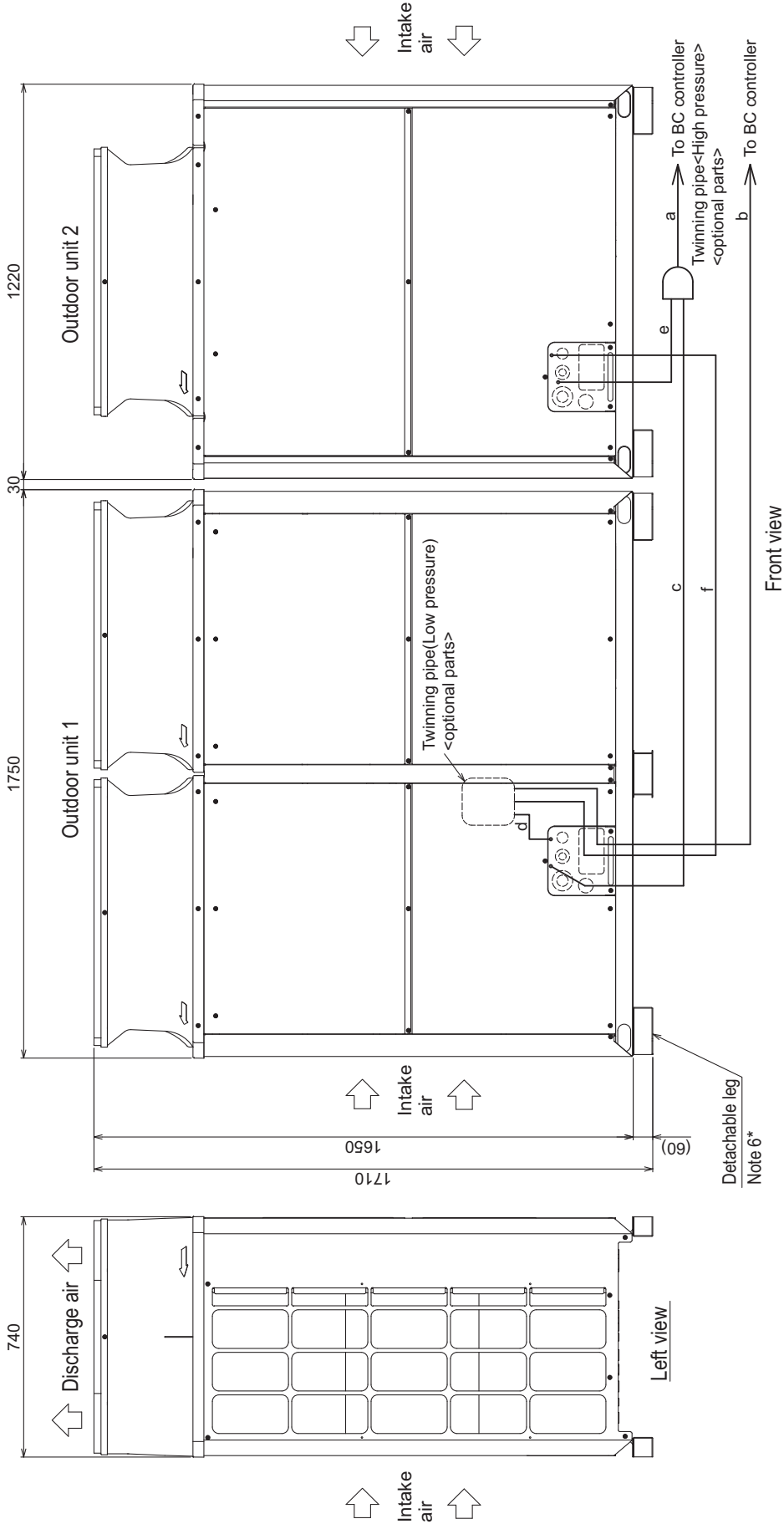
- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipe (High pressure) should not be tilted more than 15 degrees from the horizontal plane.
 Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe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



R2 (HIGH COP)

PURY-EP750YSLM-A1 (-BS)

Unit : mm



Front view

Left view

Unit model	EP750				
Component unit model	EP400	EP350			
Twinning Kit ~Outdoor unit	High pressure	c	ø22.2	e	ø19.05
	Low pressure	d - (Note 5)	f	ø28.58	

Twinning pipe connection size

Package unit name	PURY-EP750YSLM-A1(-BS)		
Component unit name	Outdoor unit 1	PURY-EP400YLM-A1(-BS)	
Outdoor Twinning Kit(optional parts)	Outdoor unit 2	PURY-EP350YLM-A1(-BS)	
BC controller~Twinning pipe	High pressure	a	ø28.58
	Low pressure	b	ø34.93

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

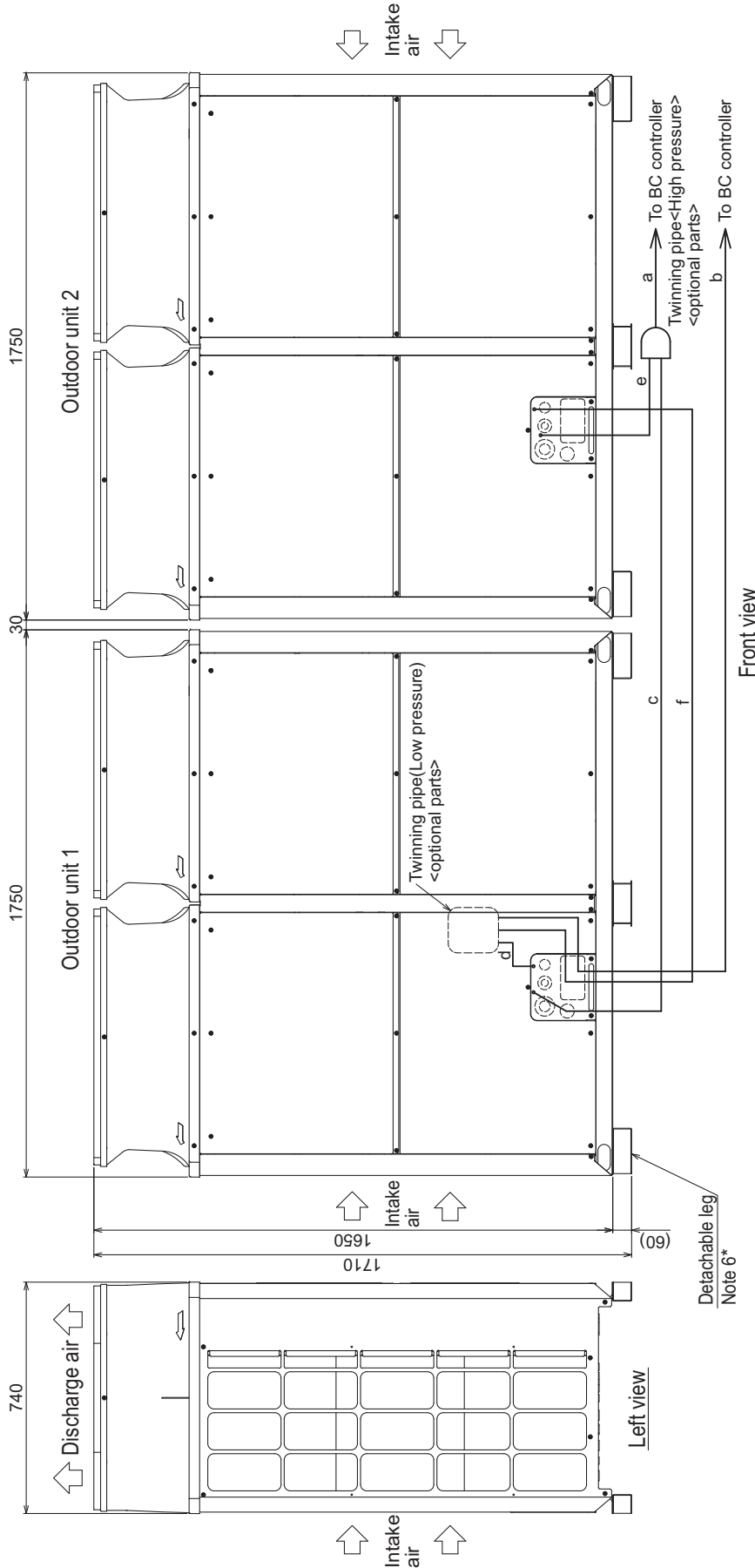
R2 (HIGH COP)

2. EXTERNAL DIMENSIONS

DATA G11

PURY-EP800, 850, 900YSLM-A1 (-BS)

Unit : mm



Front view

Left view

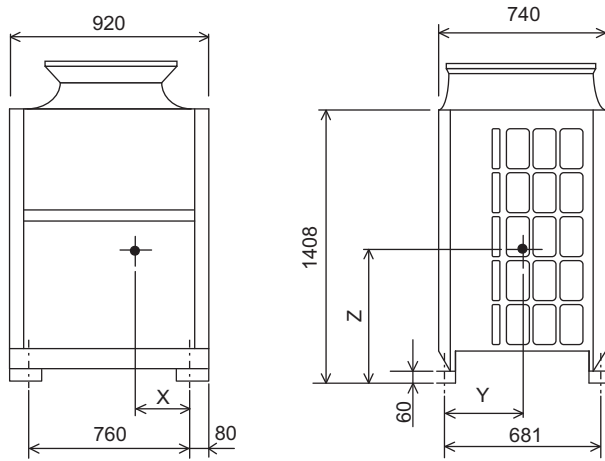
Twinning pipe connection size

Package unit name	PURY-EP800YSLM-A1(-BS)	PURY-EP850YSLM-A1(-BS)	PURY-EP900YSLM-A1(-BS)
Outdoor unit 1	PURY-EP400YLM-A1(-BS)	PURY-EP450YLM-A1(-BS)	PURY-EP450YLM-A1(-BS)
Outdoor unit 2	PURY-EP400YLM-A1(-BS)	PURY-EP400YLM-A1(-BS)	PURY-EP450YLM-A1(-BS)
Outdoor Twinning Kit (optional parts)	CMY-ER200VBK	CMY-ER200VBK	CMY-ER200VBK
BC controller~Twinning pipe	High pressure	ø28.58	ø28.58
	Low pressure	ø34.93	ø41.28

Unit model	EP800	EP850	EP900	
Component unit model	EP400	EP450	EP450	
Twinning Kit ~Outdoor unit	High pressure	c ø22.2	e ø22.2	c ø22.2
	Low pressure	d ø28.58	d ø28.58	d ø28.58

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

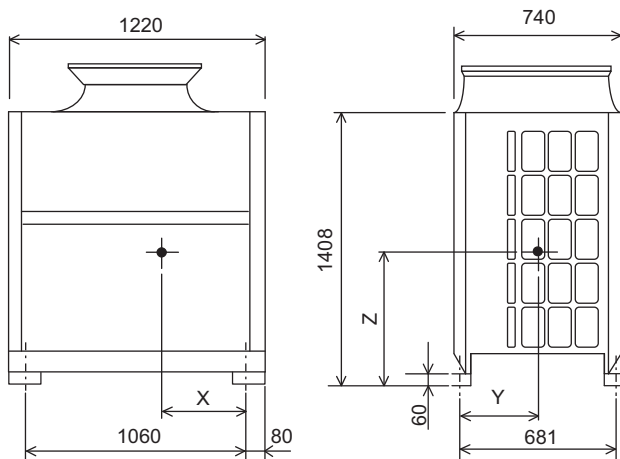
PURY-EP200, 250YLM-A1 (-BS)



Unit: mm

Model	X	Y	Z
PURY-EP200YLM-A1(-BS)	352	303	688
PURY-EP250YLM-A1(-BS)	352	303	688

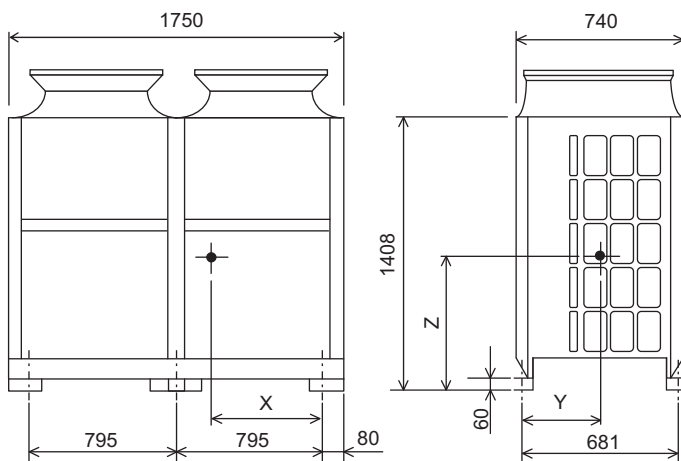
PURY-EP300, 350YLM-A1 (-BS)



Unit: mm

Model	X	Y	Z
PURY-EP300YLM-A1(-BS)	462	309	654
PURY-EP350YLM-A1(-BS)	462	309	654

PURY-EP400, 450, 500YLM-A1 (-BS)

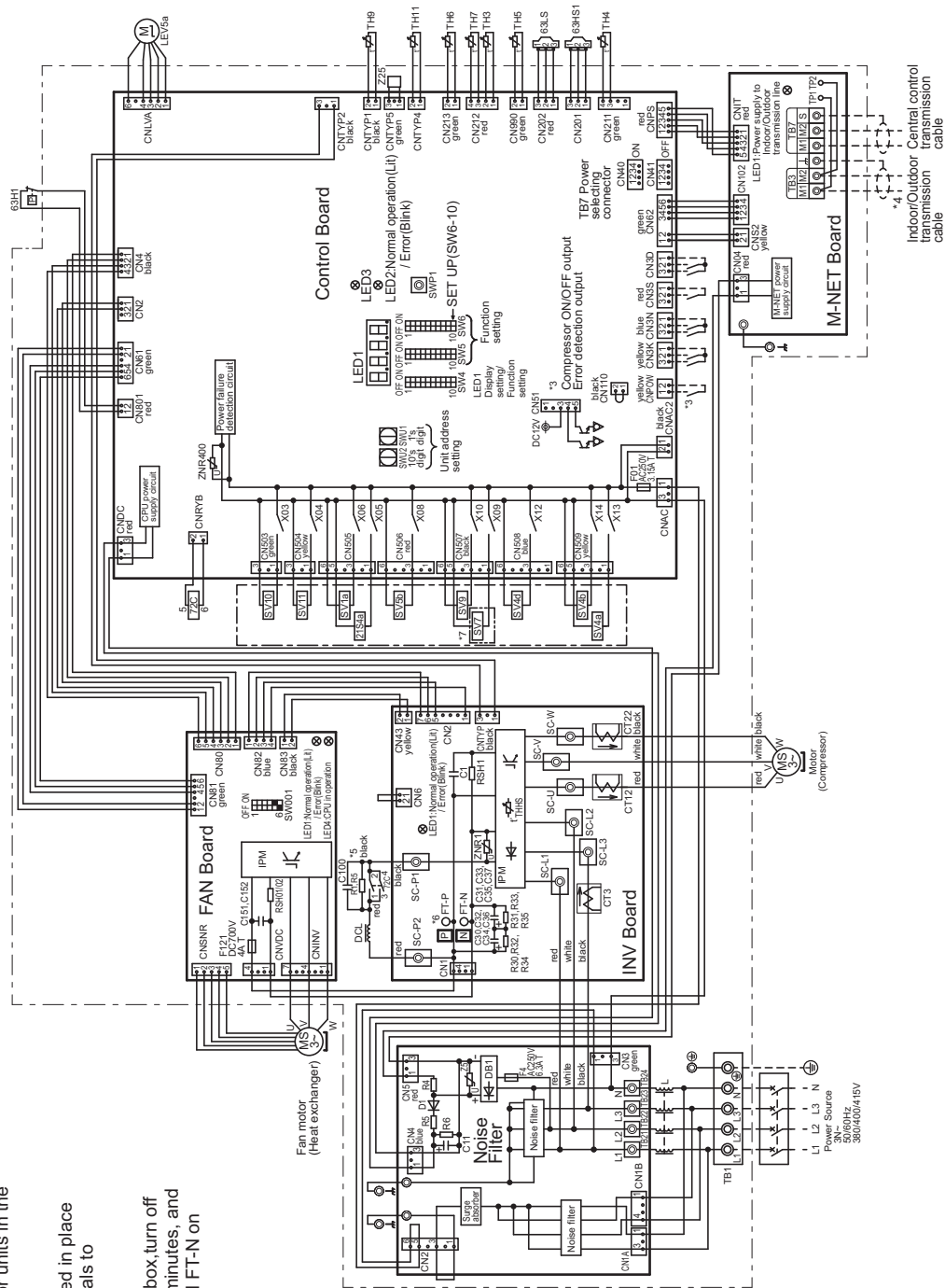


Unit: mm

Model	X	Y	Z
PURY-EP400YLM-A1(-BS)	725	329	706
PURY-EP450YLM-A1(-BS)	729	340	723
PURY-EP500YLM-A1(-BS)	743	337	752

R2 (HIGH COP)

PURY-EP200, 250, 300, 350YLM-A1 (-BS)



- *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 terminals to removed 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.

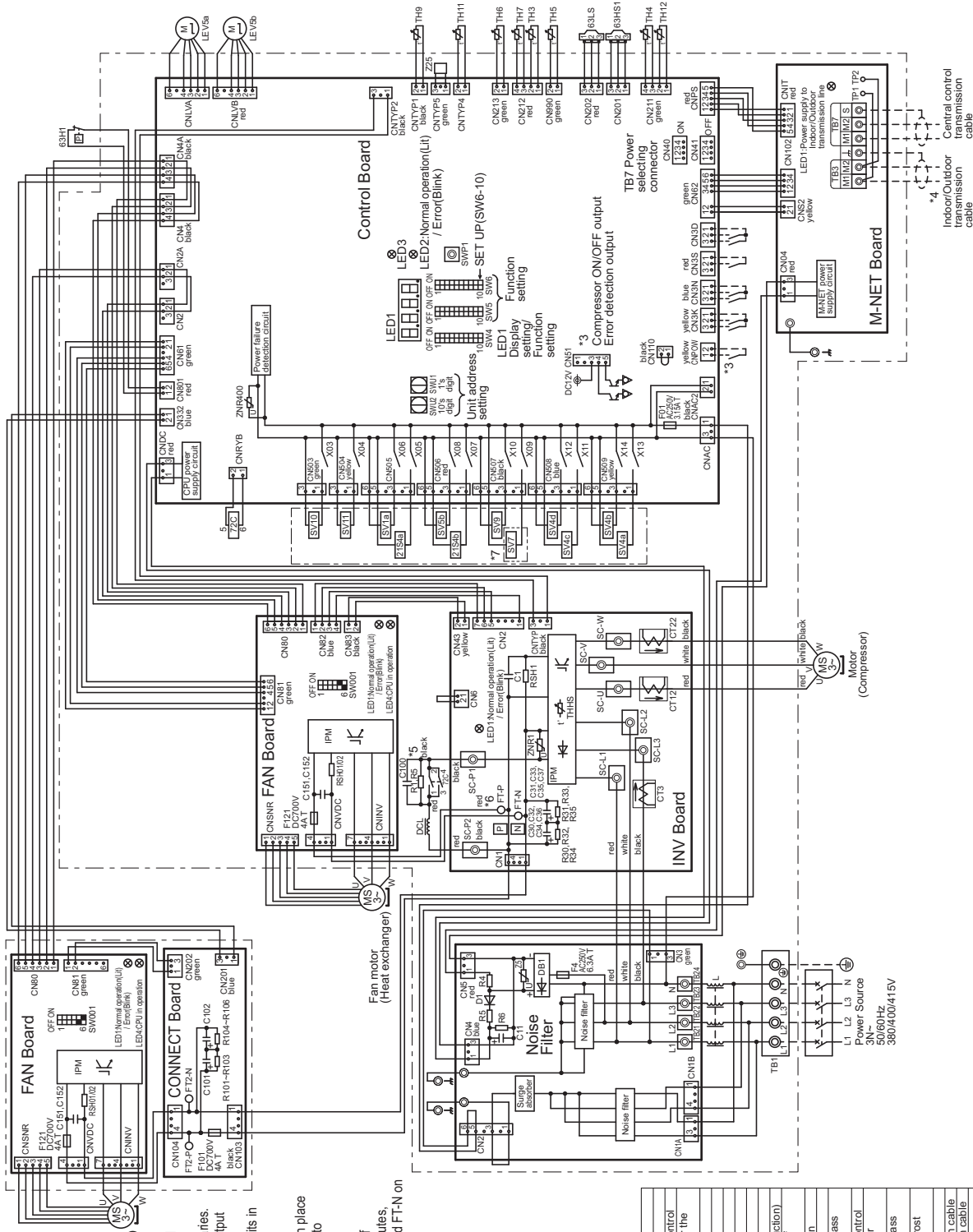
Model name	appliance
P200/250/300/350/400	*7 do not exist
EP200/250/300/350	*7 exist

<Symbol explanation>

Symbol	Explanation
21SA4a	4-way valve(Cooling/Heating switching)
63H1	Pressure High pressure protection for the outdoor unit.
63HS1	Pressure Discharge pressure
63LS	Pressure Low pressure
72C	Magnetic relay(inverter main circuit)
C30-C37	Capacitor (inverter main circuit)
CT12,CT22,CT3	Current sensor(AC)
DCL	DC reactor
L	Choke coil (for high frequency noise reduction)
LEV6a	Linear expansion valve (for the control of evaporating temperature)
R1.5	Resistor
RS10102,RS11	For inrush current prevention
SV1a	For current detection
SV4a,b,d	For opening/closing the bypass circuit under the O/S.
SV5b	Heat exchanger capacity control
SV7,SV9	Capacity control
SV10,SV11	For opening/closing the bypass circuit
TB1	For opening/closing the defrost circuit
TB3	Power supply
TB7	Indoor/Outdoor transmission cable
TH3	Central control transmission cable
TH4	Pipe temperature
TH4	Discharge pipe temperature
TH5	ACC inlet pipe temperature
TH6	Subcooled liquid refrigerant temperature
TH7	OA temperature
TH8,TH11	Heat exchanger outlet pipe temperature
THHS	IPM temperature
Z25	Function setting connector

R2 (HIGH COP)

PURY-EP400, 450YLM-A1 (-BS)



- *1. Single-dotted lines indicate wiring not supplied with the unit.
- *2. Dotted 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 terminals to removed 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.

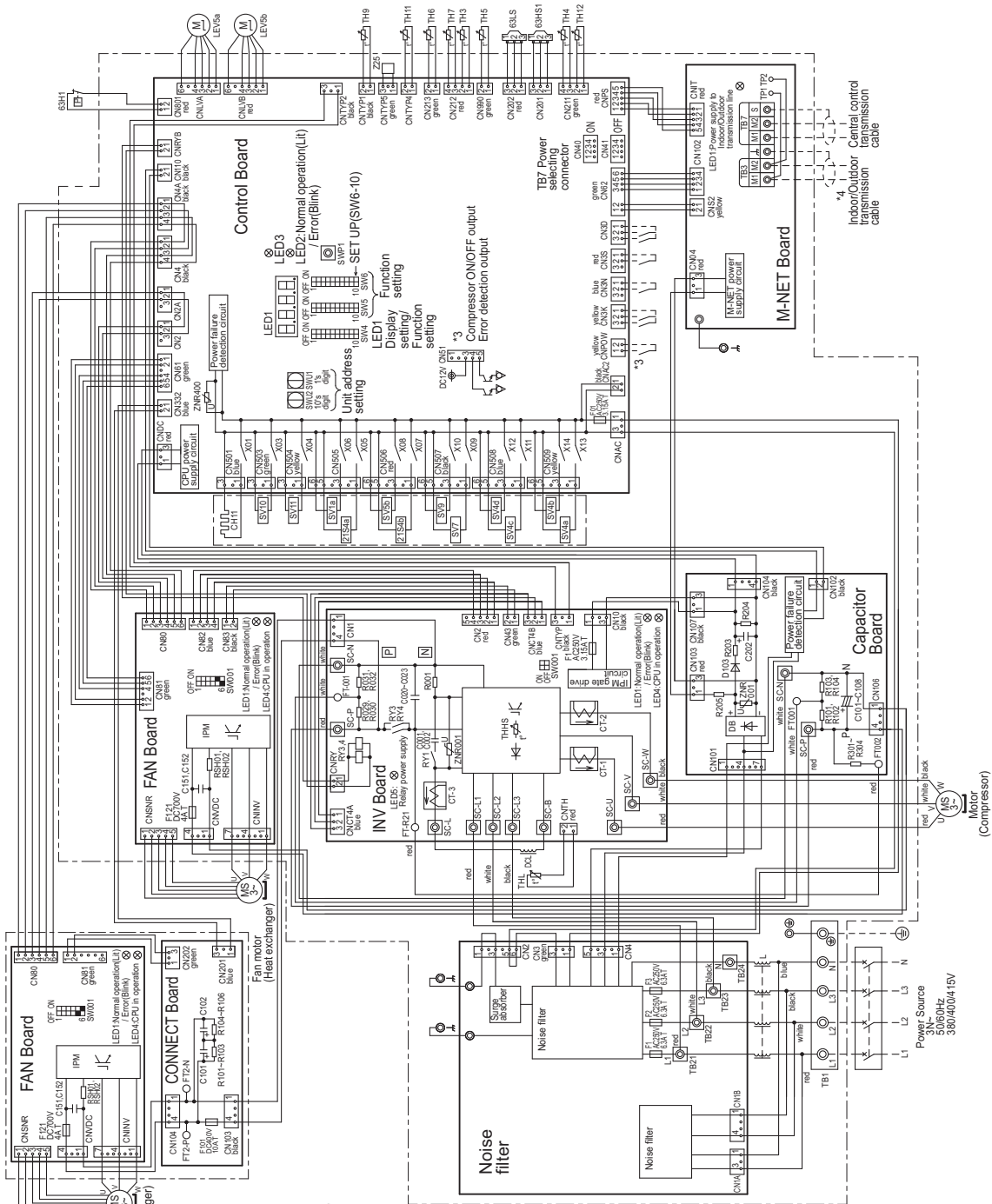
Model name	appliance
PA50/500	*7 do not exist
EP400/450	*7 exist

<Symbol explanation>

Symbol	Explanation
21S4a	4-way valve
21S4b	Cooling/heating switching
63H1	Heat exchanger capacity control pressure switch
63HS1	High pressure protection for the outdoor unit
93S	Pressure
93S	Discharge pressure
C30-C37	Low pressure
C12/C22/C31	Magnetic relay (main circuit)
C12/C22/C31	Capacitor (inverter main circuit)
DCR	Current sensor(AC)
L	DC reactor
LEV5a.b	Choke coil (for high frequency noise reduction)
R1.5	Linear expansion valve (for the control of evaporating temperature)
R30/R2/R3H	Resistor
SV1a	For inrush current prevention
SV4a.b.c.d	For current detection
SV5b	Solenoid valve
SV7-SV9	Heat exchanger capacity control outdoor unit heat exchanger capacity control
SV10-SV11	For opening/closing the bypass circuit
SV12-SV13	For opening/closing the defrost circuit
TB1	Power supply
TB2	Indoor/Outdoor transmission cable
TB3	Central control transmission cable
TH3	Pipe temperature
TH4	Discharge pipe temperature
TH5	ACC inlet pipe temperature
TH6	Subcooled liquid refrigerant temperature
TH7	O/A temperature
TH8/TH9/THZ	Heat exchanger outlet pipe temperature
THS	IP/O temperature
ZZ3	Function setting connector

R2 (HIGH COP)

PURY-EP500YLM-A1 (-BS)



- *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 are securely locked in place after insertion. Press the tab on the terminals to removed 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 SC-P and SC-N on Capacitor Board has dropped to DC20V or less.

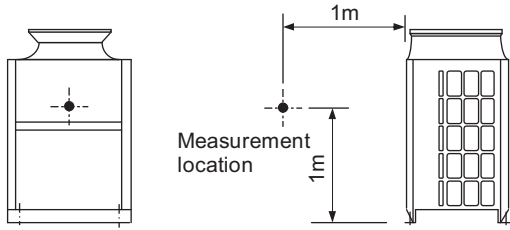
<Symbol explanation>

Symbol	Explanation
Z1/S5a	4-way valve
Z1/S5b	Cooling/Heating switching
63HT	Heat exchanger capacity control outdoor unit
63HS1	Pressure sensor
63LS	Discharge pressure sensor
C001-C108	Low pressure sensor
C001-C002	Capacitor
CH1	Inverter main circuit
CF-1, CF-2	Filter circuit
CF-3	Crankcase heater (for heating the compressor)
DCL	DC reactor
LEV5a	Choke coil (for high frequency noise reduction)
LEV5b	HIC bypass Controls refrigerant flow in HIC circuit
R301-R304	Pressure control, Refrigerant flow
R501-R502	Eye control
RY1	For current prevention
RY3, RY4	For current detection
RY1a	Filter circuit
SV1a	Inverter main circuit
SV4a,b,c,d	For opening/closing the bypass circuit under the O/S
SV5b	Heat exchanger capacity control outdoor unit heat exchanger capacity control
SV7, SV9	For opening/closing the bypass circuit
SV10, SV11	For opening/closing the defrost circuit
TB1	Power supply
TB3	Indoor/Outdoor transmission cable
TB4	General control transmission cable
TH1	Pressure sensor
TH2	Outdoor pipe temperature
TH3	ACC inlet pipe temperature
TH4	Subcooled liquid refrigerant temperature
TH5	COA temperature
TH6	Heat exchanger outlet pipe temperature
TH7	Heat exchanger inlet pipe temperature
TH9, TH11, TH12	IPM temperature
THHS	IPM temperature
THL	DC reactor temperature
ZZ5	Function setting connector

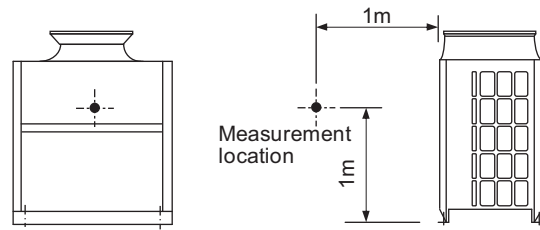
R2 (HIGH COP)

R2 (HIGH COP)

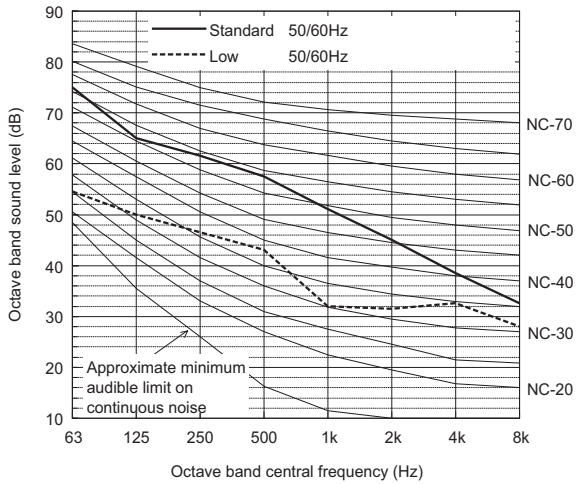
Measurement condition
PURY-EP200, 250YLM-A1(-BS)



Measurement condition
PURY-EP300, 350YLM-A1(-BS)



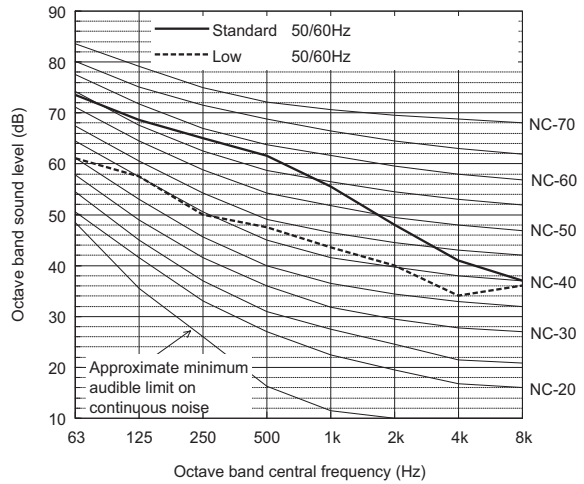
Sound level of PURY-EP200YLM-A1(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	75.0	65.0	61.5	57.5	51.0	45.0	38.5	32.5	59.0
Low noise mode	50/60Hz	54.5	50.0	46.5	43.0	32.0	31.5	32.5	28.0	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.

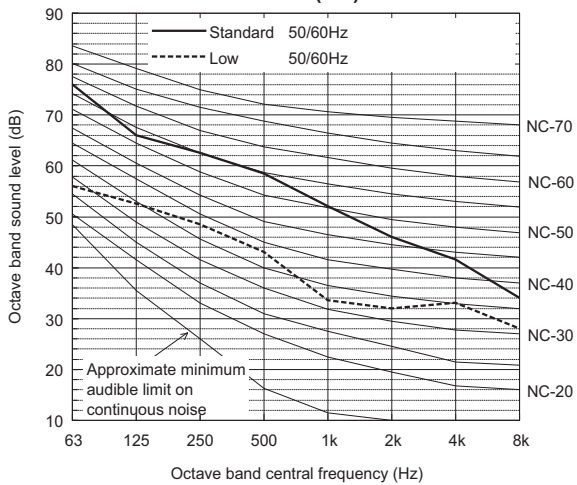
Sound level of PURY-EP300YLM-A1(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	73.5	68.5	65.0	61.5	55.5	48.0	41.0	37.0	62.5
Low noise mode	50/60Hz	61.0	57.5	50.0	47.5	43.5	40.0	34.0	36.0	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.

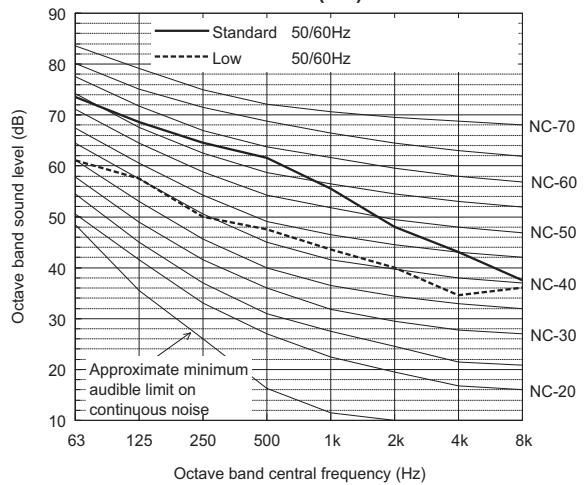
Sound level of PURY-EP250YLM-A1(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	76.0	66.0	62.5	58.5	52.0	46.0	41.5	34.0	60.0
Low noise mode	50/60Hz	56.0	52.5	48.5	43.0	33.5	32.0	33.0	28.0	45.0

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-EP350YLM-A1(-BS)

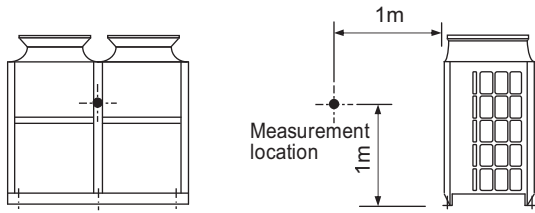


		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	73.5	68.5	64.5	61.5	55.5	48.0	43.0	37.5	62.5
Low noise mode	50/60Hz	61.0	57.5	50.0	47.5	43.5	40.0	34.5	36.0	50.0

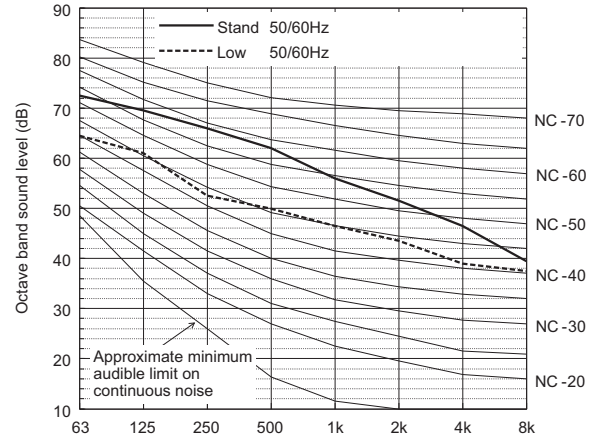
When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

♦ Depending on the operation conditions, the unit generates noise caused by valve actuation, refrigerant flow, and pressure changes when operating normally. Please consider to avoid location where quietness is required.
For BC controller, it is recommended to be installed in places such as ceilings of corridor, rest rooms and plant rooms.

Measurement condition
PURY-EP400, 450, 500YLM-A1(-BS)



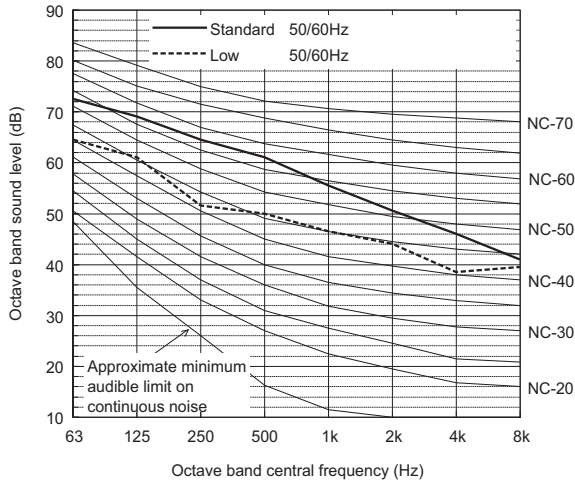
Sound level of PURY-EP500YLM-A1(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	72.5	69.5	66.0	62.0	56.0	51.5	46.5	39.5	63.5
Low noise mode	50/60Hz	64.5	61.0	52.5	50.0	46.5	43.5	39.0	37.5	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.

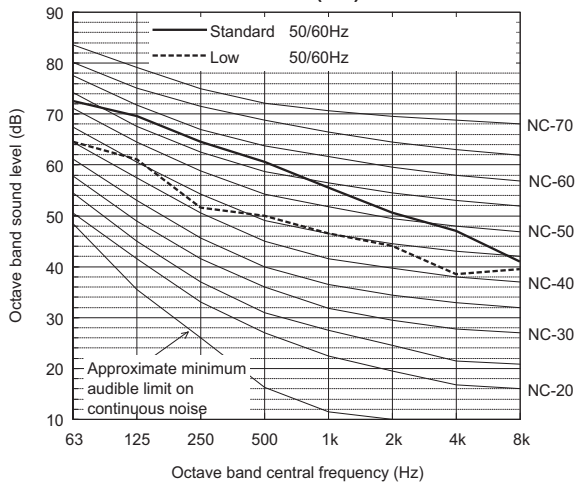
Sound level of PURY-EP400YLM-A1(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	72.5	69.0	64.5	61.0	55.5	50.5	46.0	41.0	62.5
Low noise mode	50/60Hz	64.5	61.0	51.5	50.0	46.5	44.0	38.5	39.5	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-EP450YLM-A1(-BS)



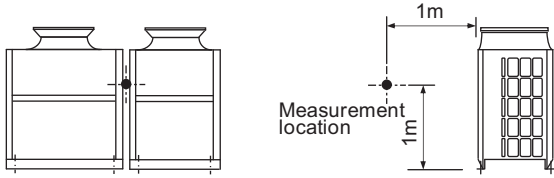
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	72.5	69.5	64.5	60.5	55.5	50.5	47.0	41.0	62.5
Low noise mode	50/60Hz	64.5	61.0	51.5	50.0	46.5	44.0	38.5	39.5	53.0

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.

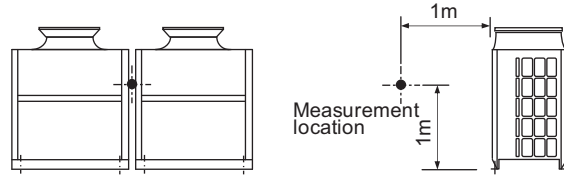
- Depending on the operation conditions, the unit generates noise caused by valve actuation, refrigerant flow, and pressure changes when operating normally. Please consider to avoid location where quietness is required. For BC controller, it is recommended to be installed in places such as ceilings of corridor, rest rooms and plant rooms.

R2 (HIGH COP)

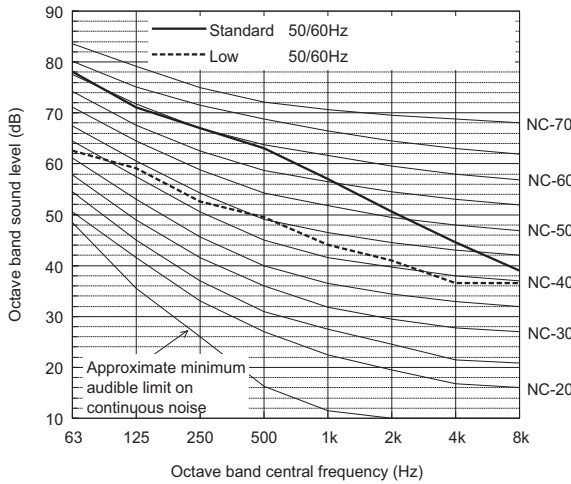
**Measurement condition
PURY-EP550YSLM-A1(-BS)**



**Measurement condition
PURY-EP600, 650, 700YSLM-A1(-BS)**



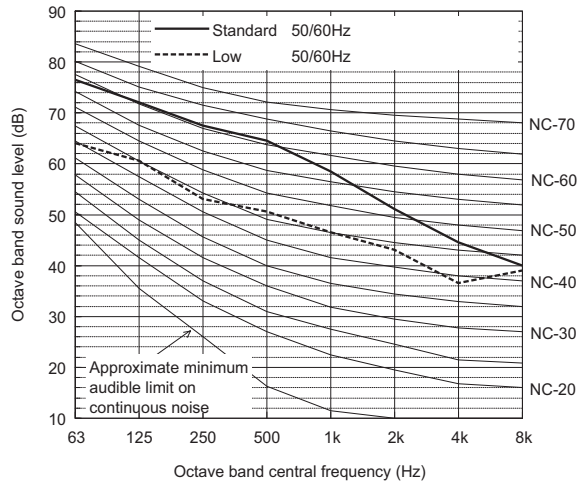
Sound level of PURY-EP550YSLM-A1(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	78.0	71.0	67.0	63.0	57.0	50.5	44.5	39.0	64.5
Low noise mode	50/60Hz	62.5	59.0	52.5	49.5	44.0	41.0	36.5	36.5	51.5

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.

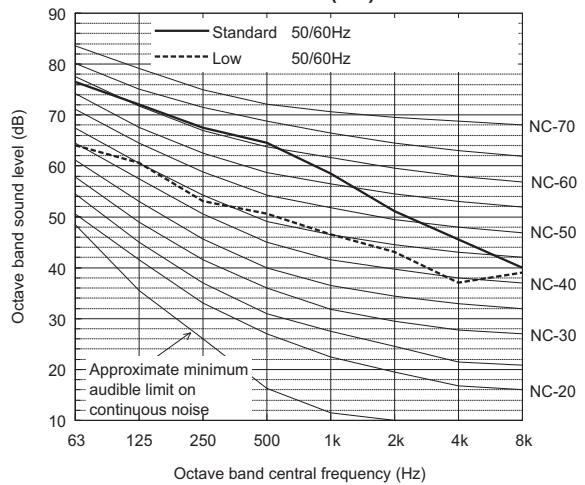
Sound level of PURY-EP600YSLM-A1(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	76.5	72.0	67.5	64.5	58.5	51.0	44.5	40.0	65.5
Low noise mode	50/60Hz	64.0	60.5	53.0	50.5	46.5	43.0	36.5	39.0	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.

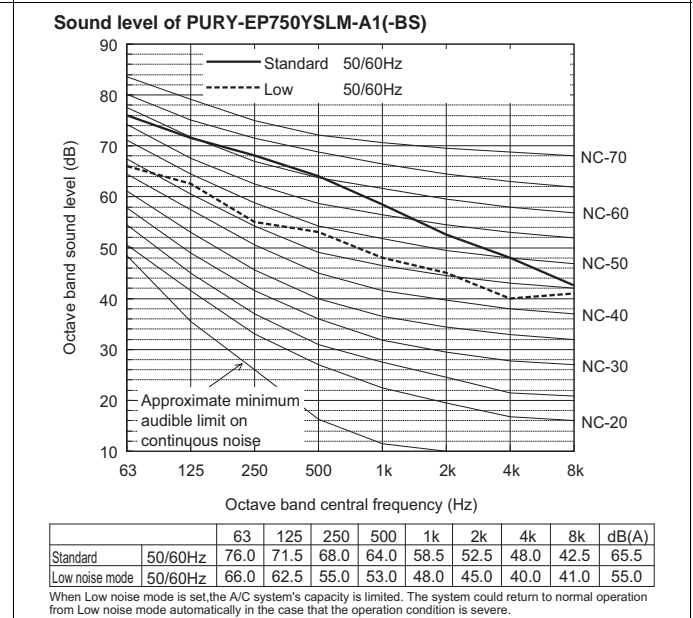
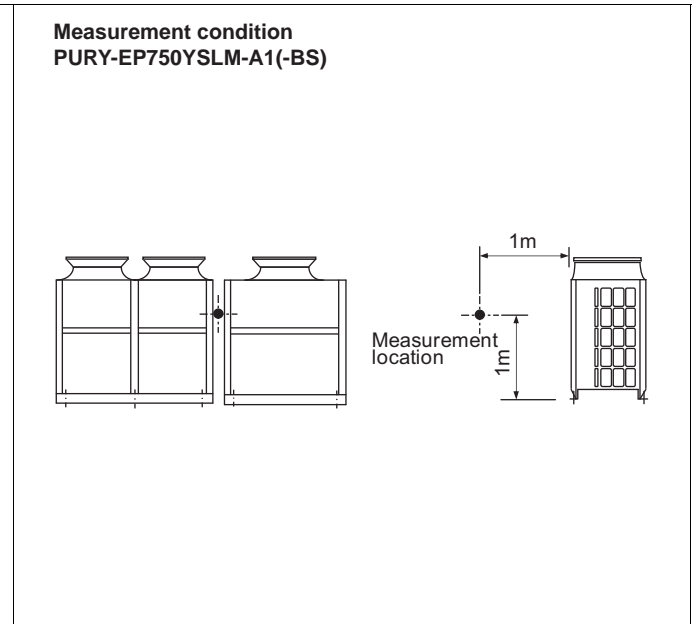
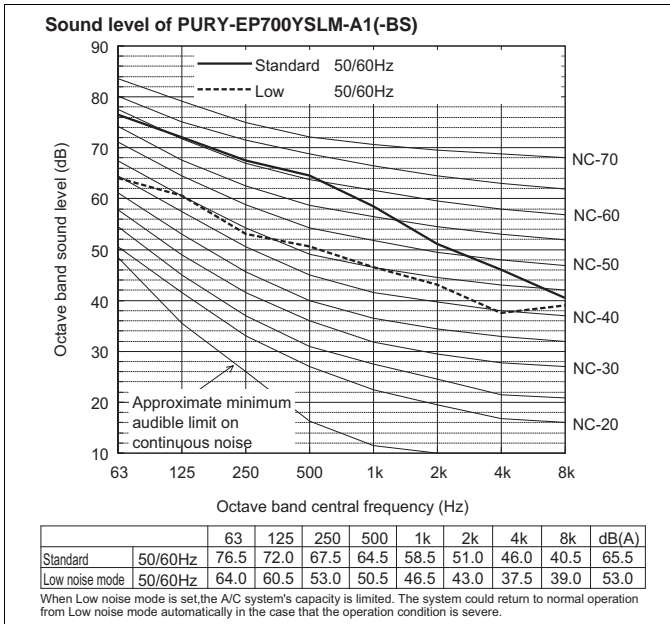
Sound level of PURY-EP650YSLM-A1(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	76.5	72.0	67.5	64.5	58.5	51.0	45.5	40.0	65.5
Low noise mode	50/60Hz	64.0	60.5	53.0	50.5	46.5	43.0	37.0	39.0	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.

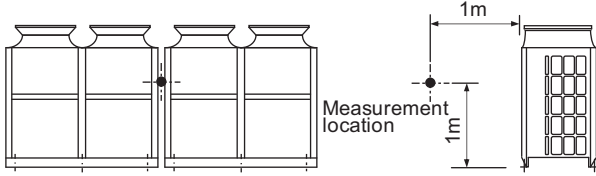
- Depending on the operation conditions, the unit generates noise caused by valve actuation, refrigerant flow, and pressure changes when operating normally. Please consider to avoid location where quietness is required. For BC controller, it is recommended to be installed in places such as ceilings of corridor, rest rooms and plant rooms.



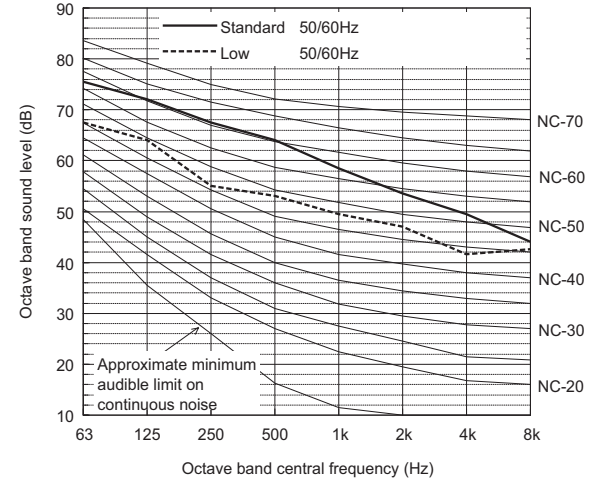
R2 (HIGH COP)

- Depending on the operation conditions, the unit generates noise caused by valve actuation, refrigerant flow, and pressure changes when operating normally. Please consider to avoid location where quietness is required. For BC controller, it is recommended to be installed in places such as ceilings of corridor, rest rooms and plant rooms.

Measurement condition
PURY-EP800, 850, 900YSLM-A1(-BS)



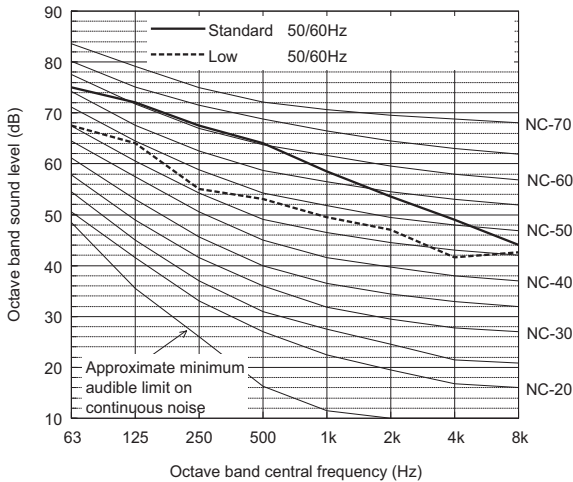
Sound level of PURY-EP900YSLM-A1(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	75.5	72.0	67.5	64.0	58.5	53.5	49.5	44.0	65.5
Low noise mode	50/60Hz	67.5	64.0	55.0	53.0	49.5	47.0	41.5	42.5	56.0

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.

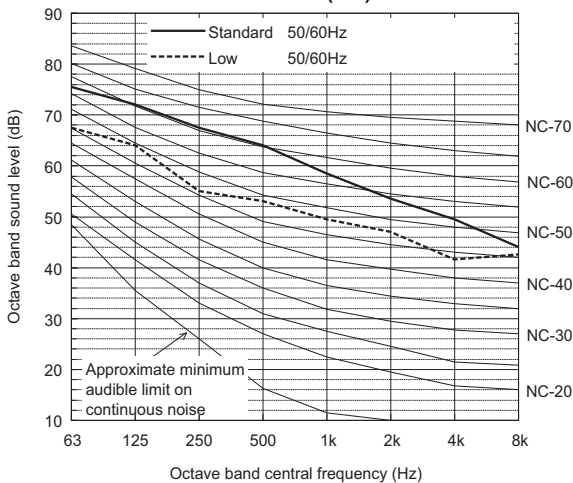
Sound level of PURY-EP800YSLM-A1(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	75.0	72.0	67.5	64.0	58.5	53.5	49.0	44.0	65.5
Low noise mode	50/60Hz	67.5	64.0	55.0	53.0	49.5	47.0	41.5	42.5	56.0

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-EP850YSLM-A1(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	75.5	72.0	67.5	64.0	58.5	53.5	49.5	44.0	65.5
Low noise mode	50/60Hz	67.5	64.0	55.0	53.0	49.5	47.0	41.5	42.5	56.0

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.

- Depending on the operation conditions, the unit generates noise caused by valve actuation, refrigerant flow, and pressure changes when operating normally. Please consider to avoid location where quietness is required. For BC controller, it is recommended to be installed in places such as ceilings of corridor, rest rooms and plant rooms.

[PURY-EP200-500YLM, PURY-EP550-900YSLM]

Measurement condition

Measurement frequency: 1 Hz-80 Hz

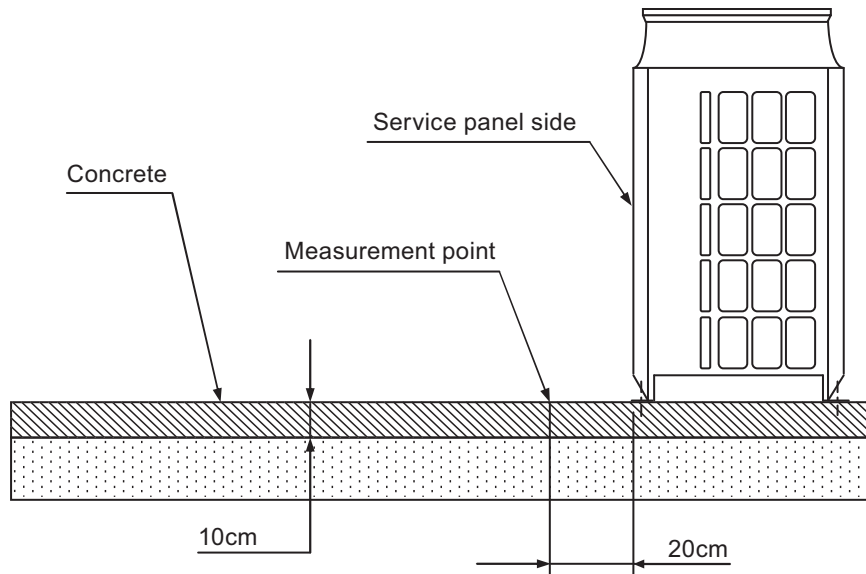
Measurement point: Ground surface 20 cm away from the unit leg

Installation condition: Direct installation on the concrete floor

Power source: 3-phase 4-wire 380-400-415 V 50/60 Hz

Operation condition: JIS condition (cooling, heating)

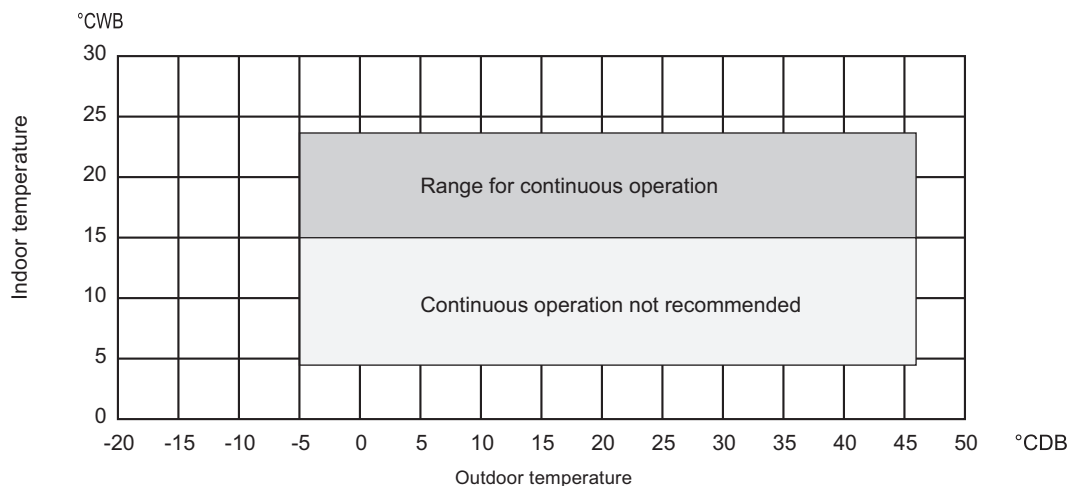
Measurement device: Vibration level meter for vibration pollution VM-1220C (JIS-compliant product)



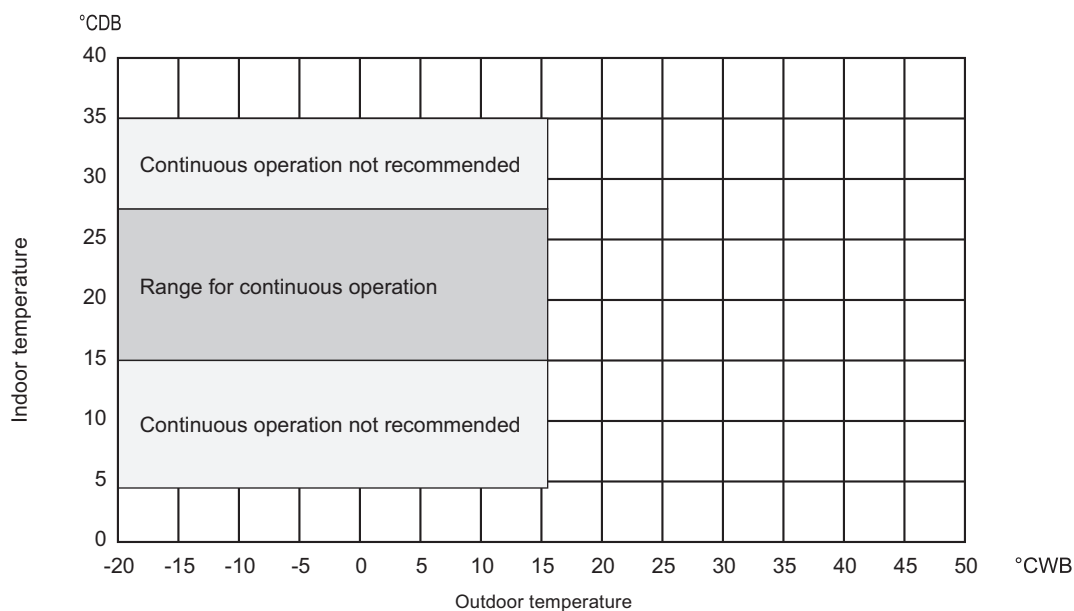
Vibration level

Model	Vibration level (dB)
PURY-EP200YLM-A1 (-BS)	45
PURY-EP250YLM-A1 (-BS)	46
PURY-EP300YLM-A1 (-BS)	47
PURY-EP350YLM-A1 (-BS)	47
PURY-EP400YLM-A1 (-BS)	47
PURY-EP450YLM-A1 (-BS)	47
PURY-EP500YLM-A1 (-BS)	48
PURY-EP550YSLM-A1 (-BS)	49.5
PURY-EP600YSLM-A1 (-BS)	50
PURY-EP650YSLM-A1 (-BS)	50
PURY-EP700YSLM-A1 (-BS)	50
PURY-EP750YSLM-A1 (-BS)	50
PURY-EP800YSLM-A1 (-BS)	50
PURY-EP850YSLM-A1 (-BS)	50
PURY-EP900YSLM-A1 (-BS)	50

• Cooling only



• Heating only



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

Outdoor temperature	Indoor temperature	
	Cooling	Heating
-10 to 21°CDB (14 to 70°FDB)	—	15 to 27°CDB (59 to 81°FDB)
-11 to 15.5°CWB (12.2 to 60°FWB)	15 to 24°CWB (59 to 75°FWB)	—

R2 (HIGH COP)

Section 8-1.

Shows an example of how to select the indoor and outdoor units according to the required heating/cooling load.

Section 8-2. through 8-6.

Show the actual correction data of indoor and outdoor units.

8-1. Selection of Cooling/Heating Units

How to determine the capacity when less than or equal 100% indoor model size units are connected in total:

The purpose of this flow chart is to select the indoor and outdoor units. For other purposes, this flow chart is intended only for reference.

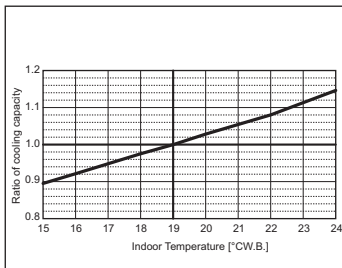
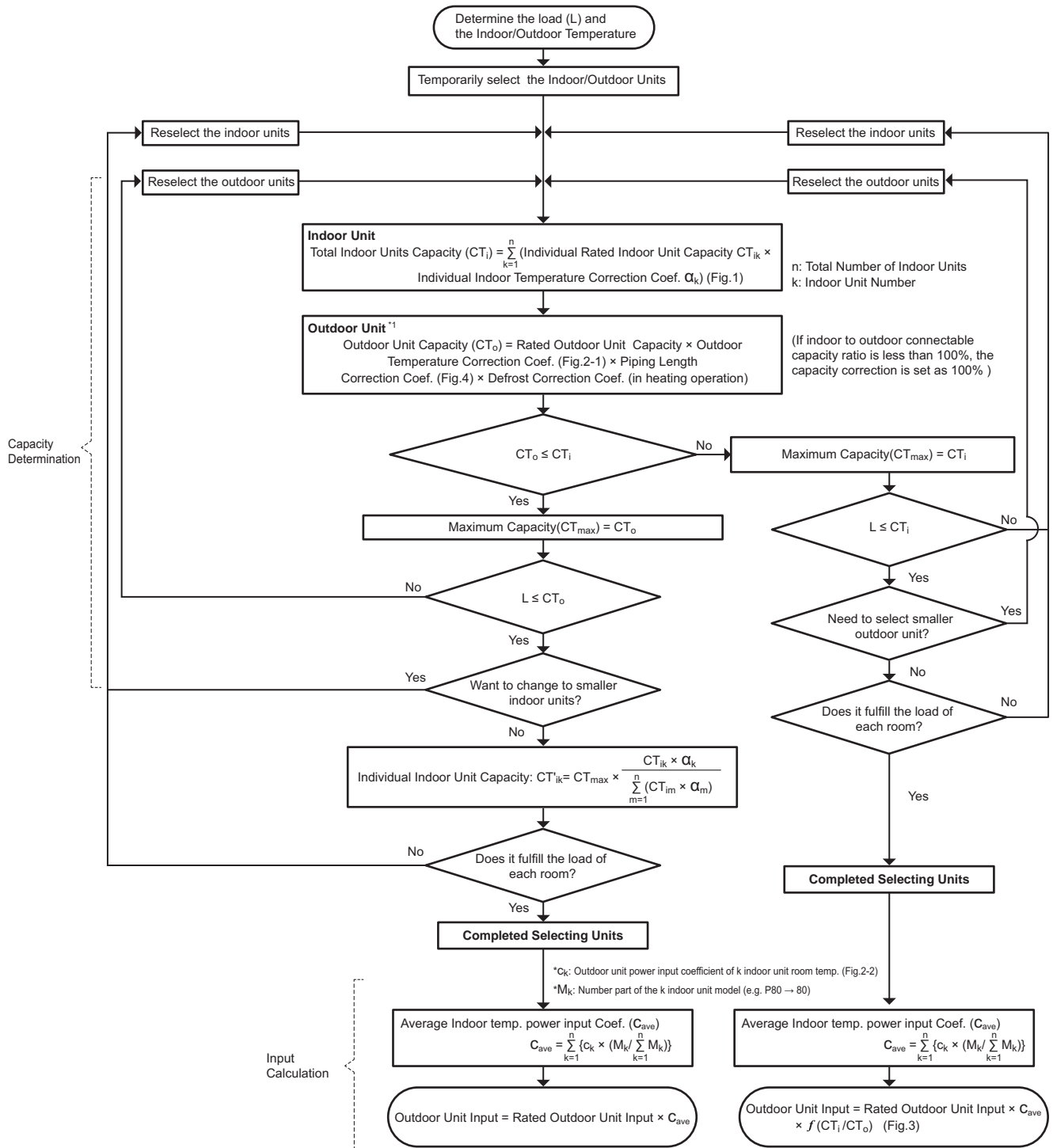


Fig.1 Indoor unit temperature correction

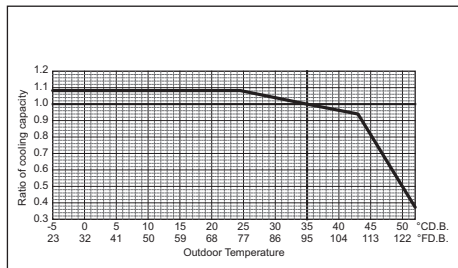


Fig.2-1 Outdoor unit temperature correction (capacity)

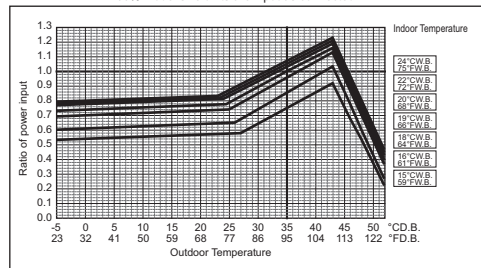
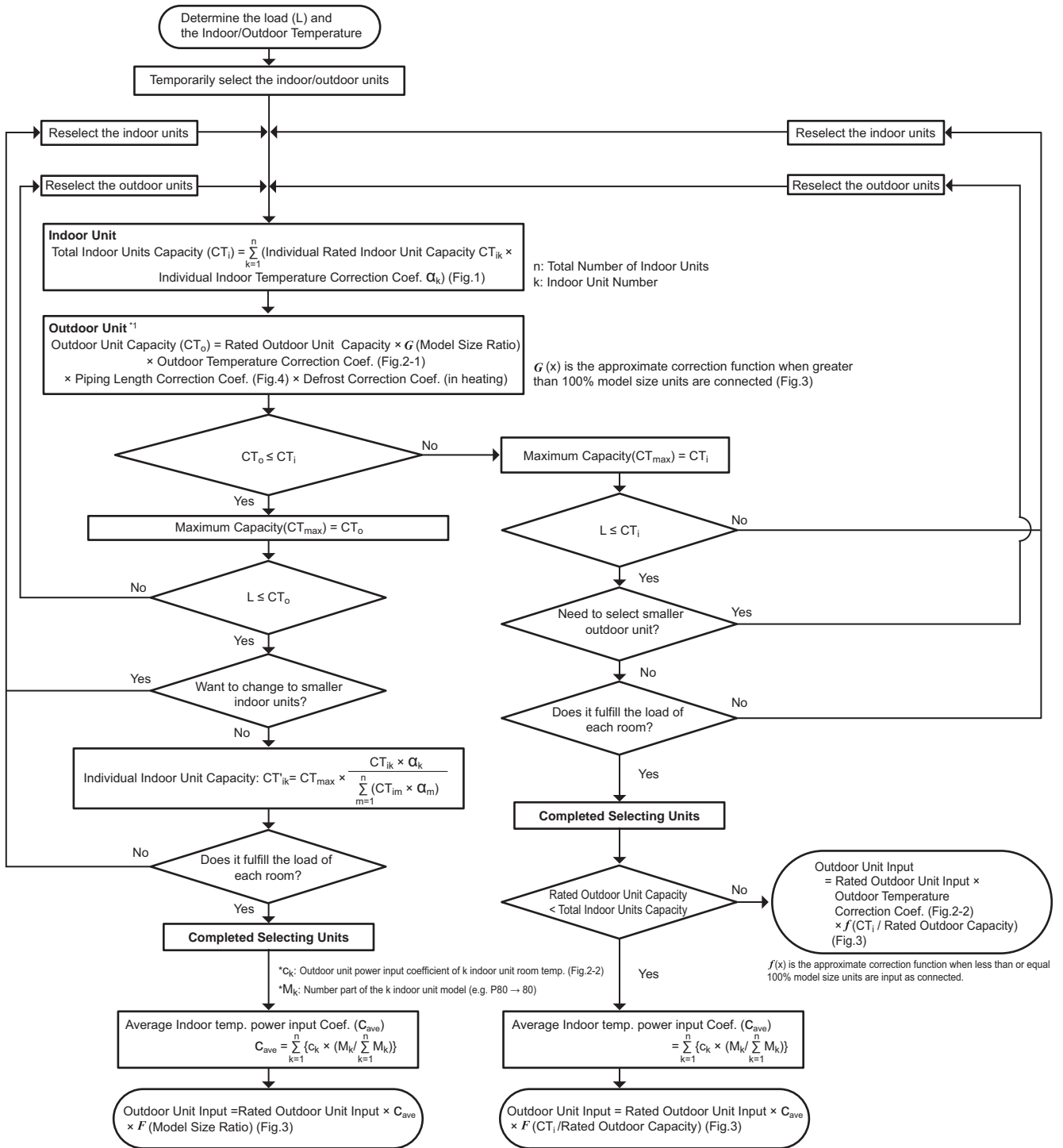


Fig.2-2 Outdoor unit temperature correction (power input)

*1 When the indoor unit sizes from P100 to P140 or total capacity indoor units from P81 to P140 are connected to only 1 port on the BC controller in the R2 system, the cooling capacity of the indoor unit should be multiplied by a correction factor of 0.97.

How to determine the capacity when greater than 100% indoor model size units are connected in total:

The purpose of this flow chart is to select the indoor and outdoor units. For other purposes, this flow chart is intended only for reference.



R2 (HIGH COP)

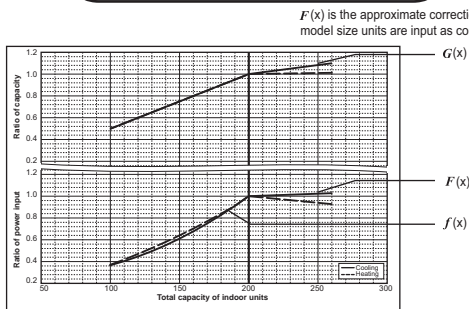


Fig.3 Correction by total indoor

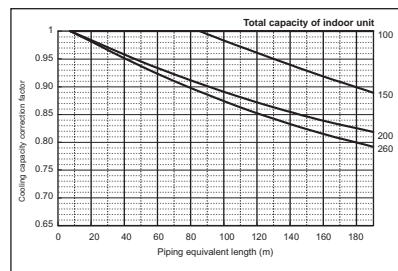


Fig.4 Correction of refrigerant piping length

*1 When the indoor unit sizes from P100 to P140 or total capacity indoor units from P81 to P140 are connected to only 1 port on the BC controller in the R2 system, the cooling capacity of the indoor unit should be multiplied by a correction factor of 0.97.

<Cooling>

Design Condition	
Outdoor Design Dry Bulb Temperature	37 °C
Total Cooling Load	19.0 kW
Room1	
Indoor Design Dry Bulb Temperature	27 °C
Indoor Design Wet Bulb Temperature	20 °C
Cooling Load	9.0 kW
Room2	
Indoor Design Dry Bulb Temperature	24 °C
Indoor Design Wet Bulb Temperature	18 °C
Cooling Load	10.0 kW
<Other>	
Indoor/Outdoor Equivalent Piping Length	50 m

1. Cooling Calculation

(1) Temporary Selection of Indoor Units

Room1	PLFY-P100	11.2 kW (Rated)
Room2	PEFY-P100	11.2 kW (Rated)

(2) Total Indoor Units Capacity

$$P100 + P100 = P200$$

(3) Selection of Outdoor Unit

The P200 outdoor unit is selected as total indoor units capacity is P200

PUHY-EP200	22.4 kW
------------	---------

(4) Total Indoor Units Capacity Correction Calculation

Room1	Indoor Design Wet Bulb Temperature Correction (20°C)	1.03 (Refer to Fig.1)
Room2	Indoor Design Wet Bulb Temperature Correction (18°C)	0.98 (Refer to Fig.1)

Total Indoor Units Capacity (CTi)

$$\begin{aligned} CTi &= \Sigma (\text{Indoor Unit Rating} \times \text{Indoor Design Temperature Correction}) \\ &= 11.2 \times 1.03 + 11.2 \times 0.98 \\ &= 22.5 \text{ kW} \end{aligned}$$

(5) Outdoor Unit Correction Calculation

Outdoor Design Dry Bulb Temperature Correction (37°C)	0.99 (Refer to Fig.2)
Piping Length Correction (50 m)	0.95 (Refer to Fig.3)

Total Outdoor Unit Capacity (CTo)

$$\begin{aligned} CTo &= \text{Outdoor Rating} \times \text{Outdoor Design Temperature Correction} \times \text{Piping Length Correction} \\ &= 22.4 \times 0.99 \times 0.95 \\ &= 21.0 \text{ kW} \end{aligned}$$

(6) Determination of Maximum System Capacity (CTx)

Comparison of Capacity between Total Indoor Units Capacity (CTi) and Total Outdoor Unit Capacity (CTo)

$$CTi = 22.5 > CTo = 21.0, \text{ thus, select } CTo.$$

$$CTx = CTo = 21.0 \text{ kW}$$

(7) Comparison with Essential Load

Against the essential load 19.0kW, the maximum system capacity is 21.0kW: Proper outdoor units have been selected.

(8) Calculation of Maximum Indoor Unit Capacity of Each Room

CTx = CTo, thus, calculate by the calculation below

Room1

$$\begin{aligned} &\text{Maximum Capacity} \times \text{Room1 Capacity after the Temperature Correction} / (\text{Room1,2 Total Capacity after the Temperature Correction}) \\ &= 21.0 \times (11.2 \times 1.03) / (11.2 \times 1.03 + 11.2 \times 0.98) \\ &= 10.8 \text{ kW} \quad \text{OK: fulfills the load 9.0kW} \end{aligned}$$

Room2

$$\begin{aligned} &\text{Maximum Capacity} \times \text{Room2 Capacity after the Temperature Correction} / (\text{Room1,2 Total Capacity after the Temperature Correction}) \\ &= 21.0 \times (11.2 \times 0.98) / (11.2 \times 1.03 + 11.2 \times 0.98) \\ &= 10.2 \text{ kW} \quad \text{OK: fulfills the load 10.0kW} \end{aligned}$$

Go on to the heating trial calculation since the selected units fulfill the cooling loads of Room 1, 2.

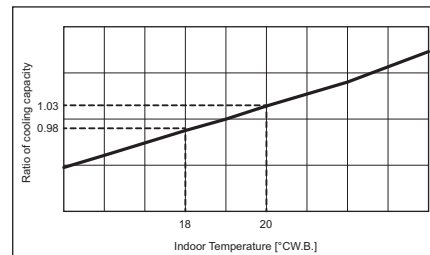


Fig.1 Indoor unit temperature correction
To be used to correct indoor unit only

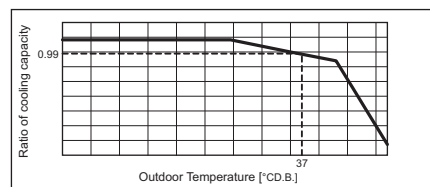


Fig.2 Outdoor unit temperature correction
To be used to correct outdoor unit only

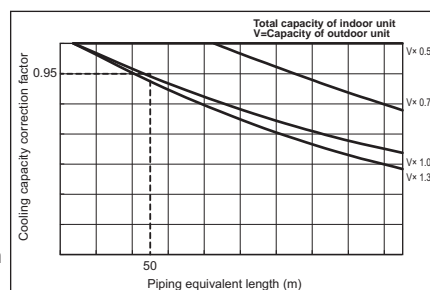


Fig.3 Correction of refrigerant piping length

<Heating>

Design Condition	
Outdoor Design Wet Bulb Temperature	-3 °C
Total Heating Load	18.5 kW
Room1	
Indoor Design Dry Bulb Temperature	25 °C
Heating Load	9.5 kW
Room2	
Indoor Design Dry Bulb Temperature	25 °C
Heating Load	9.0 kW
<Other>	
Indoor/Outdoor Equivalent Piping Length	60 m

2. Heating Calculation

(1) Temporary Selection of Indoor Units

Room1	PLFY-P100	12.5 kW (Rated)
Room2	PEFY-P100	12.5 kW (Rated)

(2) Total Indoor Units Capacity

$P100 + P100 = P200$

(3) Selection of Outdoor Unit

The P200 outdoor unit is selected as total indoor units capacity is P200

PUHY-EP200	25.0 kW
------------	---------

(4) Total Indoor Units Capacity Correction Calculation

Room1	Indoor Design Dry Bulb Temperature Correction (25°C)	0.80 (Refer to Fig.4)
Room2	Indoor Design Dry Bulb Temperature Correction (25°C)	0.80 (Refer to Fig.4)

Total Indoor Units Capacity (CTi)

$$CTi = \sum (\text{Indoor Unit Rating} \times \text{Indoor Design Temperature Correction})$$

$$= 12.5 \times 0.80 + 12.5 \times 0.80$$

$$= 20.0 \text{ kW}$$

(5) Outdoor Unit Correction Calculation

Outdoor Design Wet Bulb Temperature Correction (-3°C)	0.98 (Refer to Fig.5)
Piping Length Correction (60 m)	0.97 (Refer to Fig.6)
Defrost Correction	0.89 (Refer to Tbl.1)

Total Outdoor Unit Capacity (CTo)

$$CTo = \text{Outdoor Unit Rating} \times \text{Outdoor Design Temperature Correction} \times \text{Piping Length Correction} \times \text{Defrost Correction}$$

$$= 25.0 \times 0.98 \times 0.97 \times 0.89$$

$$= 21.1 \text{ kW}$$

(6) Determination of Maximum System Capacity (CTx)

Comparison of Capacity between Total Indoor Units Capacity (CTi) and Total Outdoor Unit Capacity (CTo)

$CTi = 20.0 < CTo = 21.1$, thus, select CTi.

$CTx = CTi = 20.0 \text{ kW}$

(7) Comparison with Essential Load

Against the essential load 18.5kW, the maximum system capacity is 20.0kW: Proper outdoor units have been selected.

(8) Calculation of Maximum Indoor Unit Capacity of Each Room

$CTx = CTi$, thus, calculate by the calculation below

Room1	Indoor Unit Rating × Indoor Design Temperature Correction	
	$= 12.5 \times 0.80$	
	$= 10.0 \text{ kW}$	OK: fulfills the load 9.5kW

Room2	Indoor Unit Rating × Indoor Design Temperature Correction	
	$= 12.5 \times 0.80$	
	$= 10.0 \text{ kW}$	OK: fulfills the load 9.0kW

Completed selecting units since the selected units fulfill the heating loads of Room 1, 2.

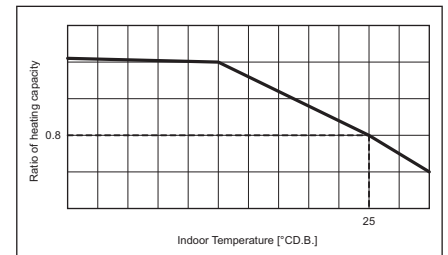


Fig.4 Indoor unit temperature correction
To be used to correct indoor unit only

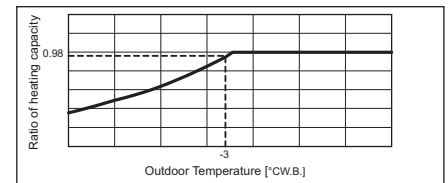


Fig.5 Outdoor unit temperature correction
To be used to correct outdoor unit only

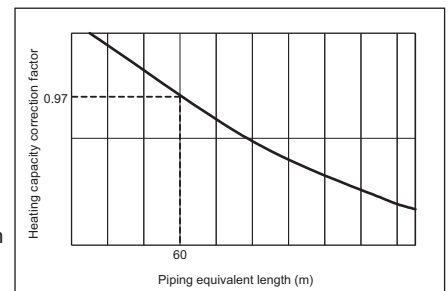


Fig.6 Correction of refrigerant piping length

Tbl.1 Table of correction factor at frost and defrost

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
PUHY-P200	1.00	0.95	0.84	0.825	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PUHY-P250	1.00	0.95	0.84	0.825	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PUHY-P300	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-P350	1.00	0.93	0.85	0.83	0.84	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-P400	1.00	0.93	0.85	0.83	0.84	0.86	0.90	0.90	0.95	0.95	0.95

R2 (HIGH COP)

3. Power input of outdoor unit

<Cooling>

(1) Rated power input of outdoor unit **5.19 kW****(2) Calculation of the average indoor temperature power input coefficient**Coefficient of the outdoor unit for indoor unit 1 (Outdoor temp. 37 °CD.B., Indoor temp. 20 °CW.B.)
1.07Coefficient of the outdoor unit for indoor unit 2 (Outdoor temp. 37 °CD.B., Indoor temp. 18 °CW.B.)
1.00

$$\text{Average indoor temp. power input coefficient } (C_{ave}) = \sum_{k=1}^n \{c_k \times (M_k / \sum_{k=1}^n M_k)\}$$

n: Total number of the indoor units

k: Number of the indoor unit

c_k: Outdoor unit power input coefficient of k indoor unit room temp.M_k: Number part of the k indoor unit model (e.g. P80 → 80)

$$= 1.07 \times 100 / (100 + 100) + 1 \times 100 / (100 + 100)$$

$$= 1.04$$

(3) No need to consider Coefficient of the partial load $f(CT_i/CT_o)$ -**(4) Outdoor power input (P_{lo})**Maximum System Capacity (CT_x) = Total Outdoor unit Capacity (CT_o), so use the following formula

$$P_{lo} = \text{Outdoor unit Cooling Rated Power Input} \times \text{Correction Coefficient of Indoor temperature}$$

$$= 5.19 \times 1.04$$

$$= 5.4 \text{ kW}$$

<Heating>

(1) Rated power input of outdoor unit **5.73 kW****(2) Calculation of the average indoor temperature power input coefficient**Coefficient of the outdoor unit for indoor unit 1 (Outdoor temp. -3 °CW.B., Indoor temp. 20 °CD.B.)
1.08Coefficient of the outdoor unit for indoor unit 2 (Outdoor temp. -3 °CW.B., Indoor temp. 25 °CD.B.)
1.08

$$\text{Average indoor temp. power input coefficient } (C_{ave}) = \sum_{k=1}^n \{c_k \times (M_k / \sum_{k=1}^n M_k)\}$$

n: Total number of the indoor units

k: Number of the indoor unit

c_k: Outdoor unit power input coefficient of k indoor unit room temp.M_k: Number part of the k indoor unit model (e.g. P80 → 80)

$$= 1.08 \times 100 / (100 + 100) + 1.08 \times 100 / (100 + 100)$$

$$= 1.08$$

(3) Coefficient of the partial load f (CTi/CTo) **0.91****(4) Outdoor power input (P_{lo})**Maximum System Capacity (CT_x) = Total Indoor unit Capacity (CT_i), so use the following formula

$$P_{lo} = \text{Outdoor unit Heating Rated Power Input} \times \text{Correction Coefficient of Indoor temperature} \times f(\text{CT}_i/\text{CT}_o)$$

$$= 5.73 \times 1.08 \times 0.91$$

$$= 5.65 \text{ kW}$$

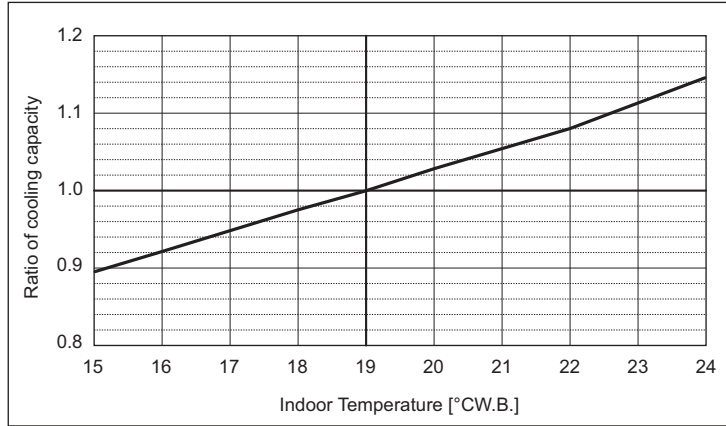
8-2. Correction by temperature

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

PURY-		EP200YLM-A1	EP250YLM-A1
Nominal Cooling Capacity	kW	22.4	28.0
	BTU/h	76,400	95,500
Input	kW	5.48	7.25

Indoor unit temperature correction

To be used to correct indoor unit capacity only



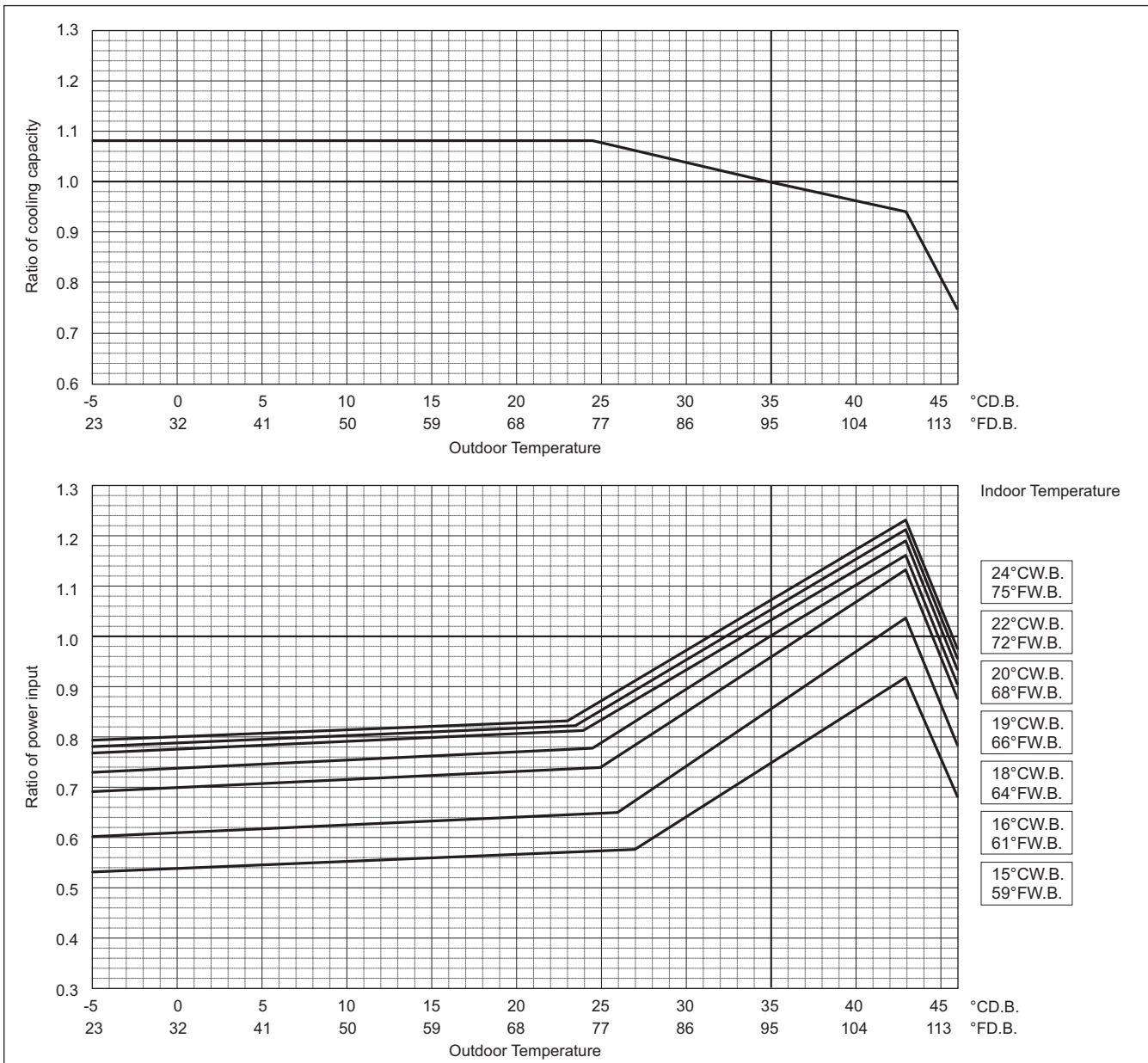
Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

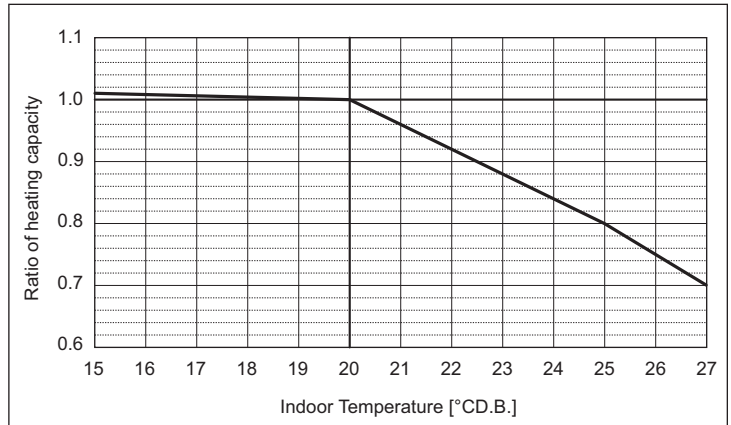
R2 (HIGH COP)



PURY-	EP200YLM-A1	EP250YLM-A1
Nominal Heating Capacity	kW 25.0	31.5
	BTU/h 85,300	107,500
Input	kW 6.41	8.45

Indoor unit temperature correction

To be used to correct indoor unit capacity only

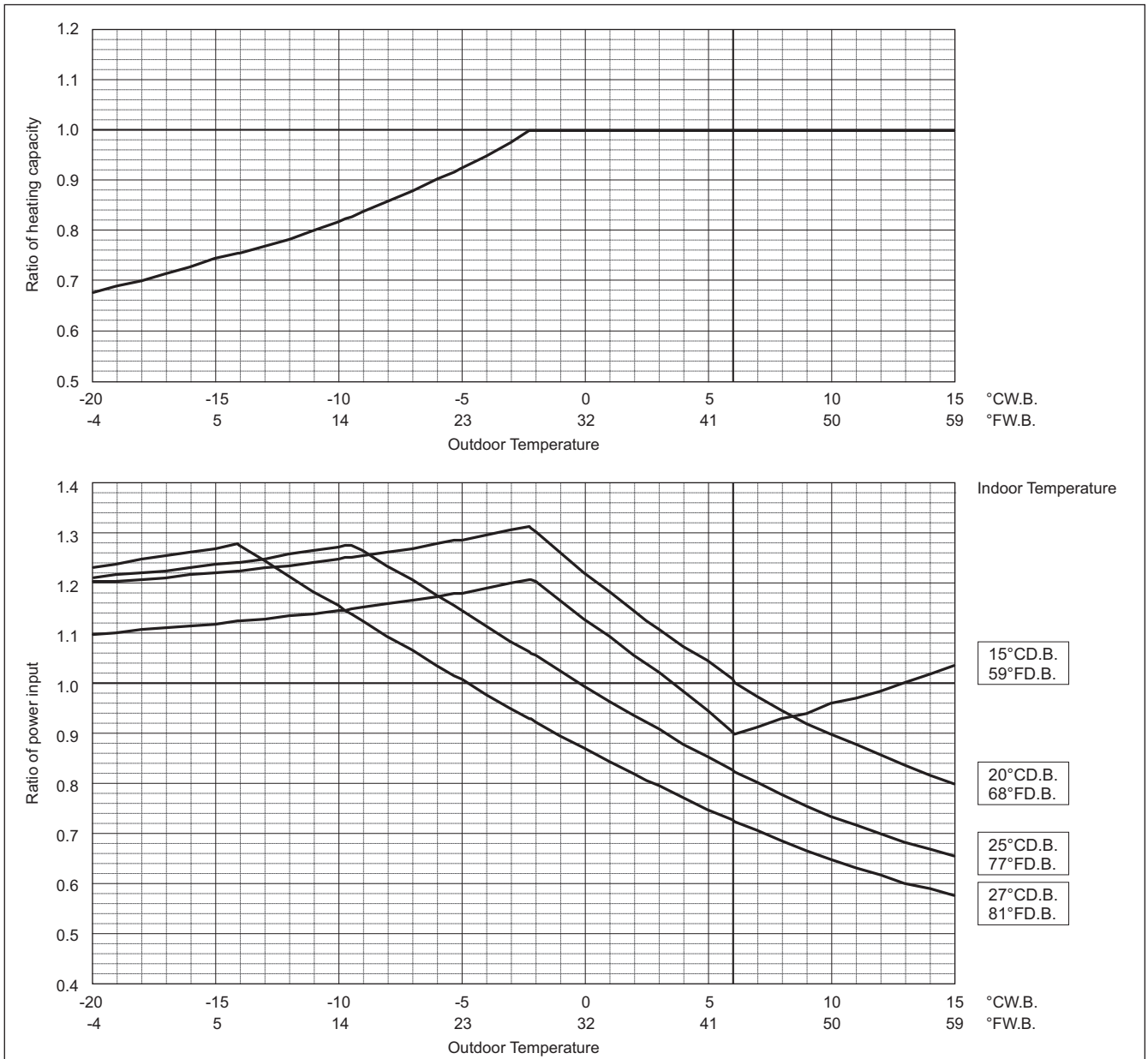


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

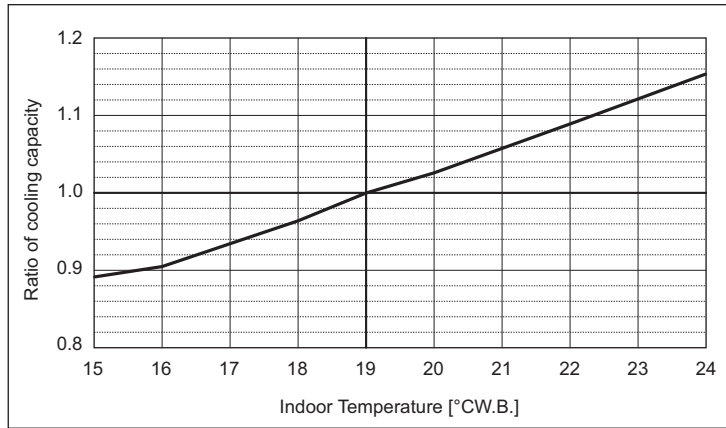
Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.



R2 (HIGH COP)

PURY-		EP300YLM-A1	EP350YLM-A1	EP400YLM-A1
Nominal Cooling Capacity	kW	33.5	40.0	45.0
	BTU/h	114,300	136,500	153,500
Input	kW	9.20	12.57	12.56

Indoor unit temperature correction
To be used to correct indoor unit capacity only

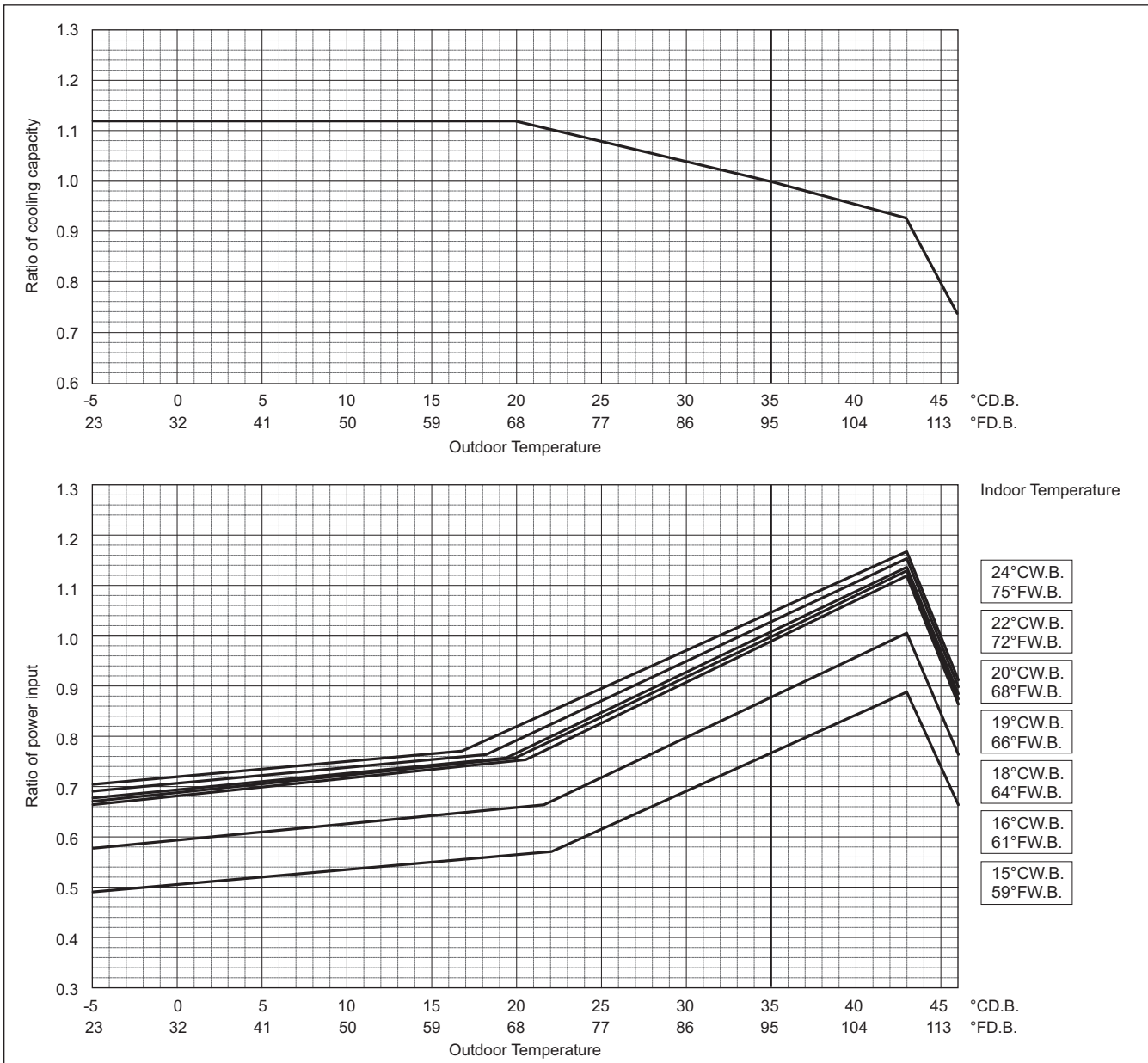


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

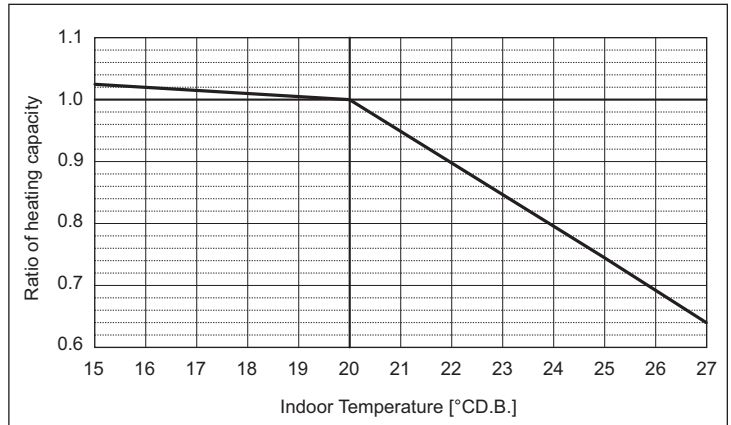


R2 (HIGH COP)

PURY-	EP300YLM-A1	EP350YLM-A1	EP400YLM-A1
Nominal Heating Capacity	kW 37.5	45.0	50.0
	BTU/h 128,000	153,500	170,600
Input	kW 9.97	12.93	13.40

Indoor unit temperature correction

To be used to correct indoor unit capacity only

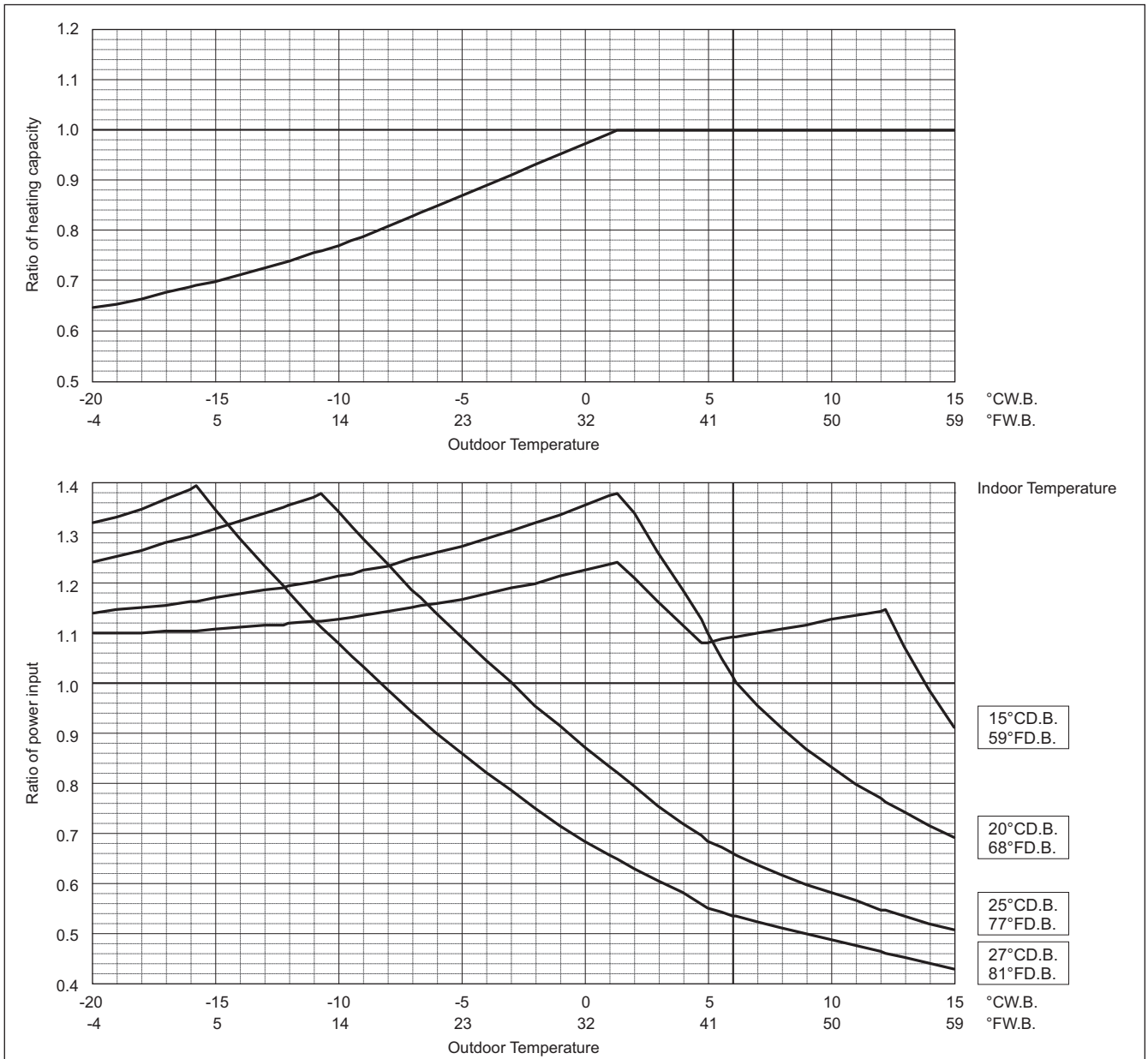


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

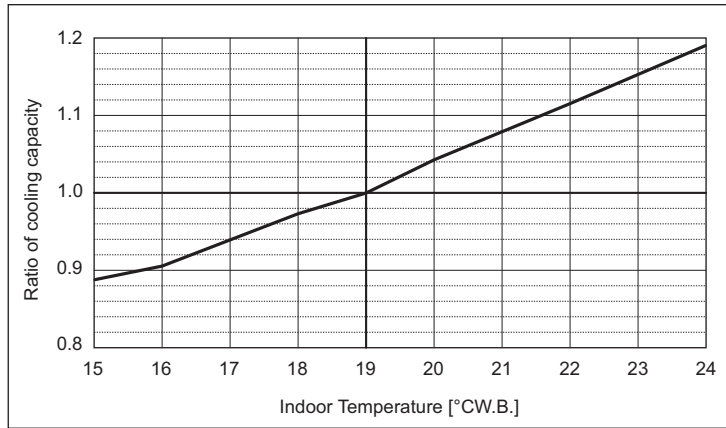


R2 (HIGH COP)

PURY-		EP450YLM-A1	EP500YLM-A1	EP550YSLM-A1
Nominal Cooling Capacity	kW	50.0	56.0	63.0
	BTU/h	170,600	191,100	215,000
Input	kW	14.83	18.30	17.35

PURY-		EP600YSLM-A1	EP650YSLM-A1
Nominal Cooling Capacity	kW	69.0	73.0
	BTU/h	235,400	249,100
Input	kW	19.54	22.12

Indoor unit temperature correction
To be used to correct indoor unit capacity only

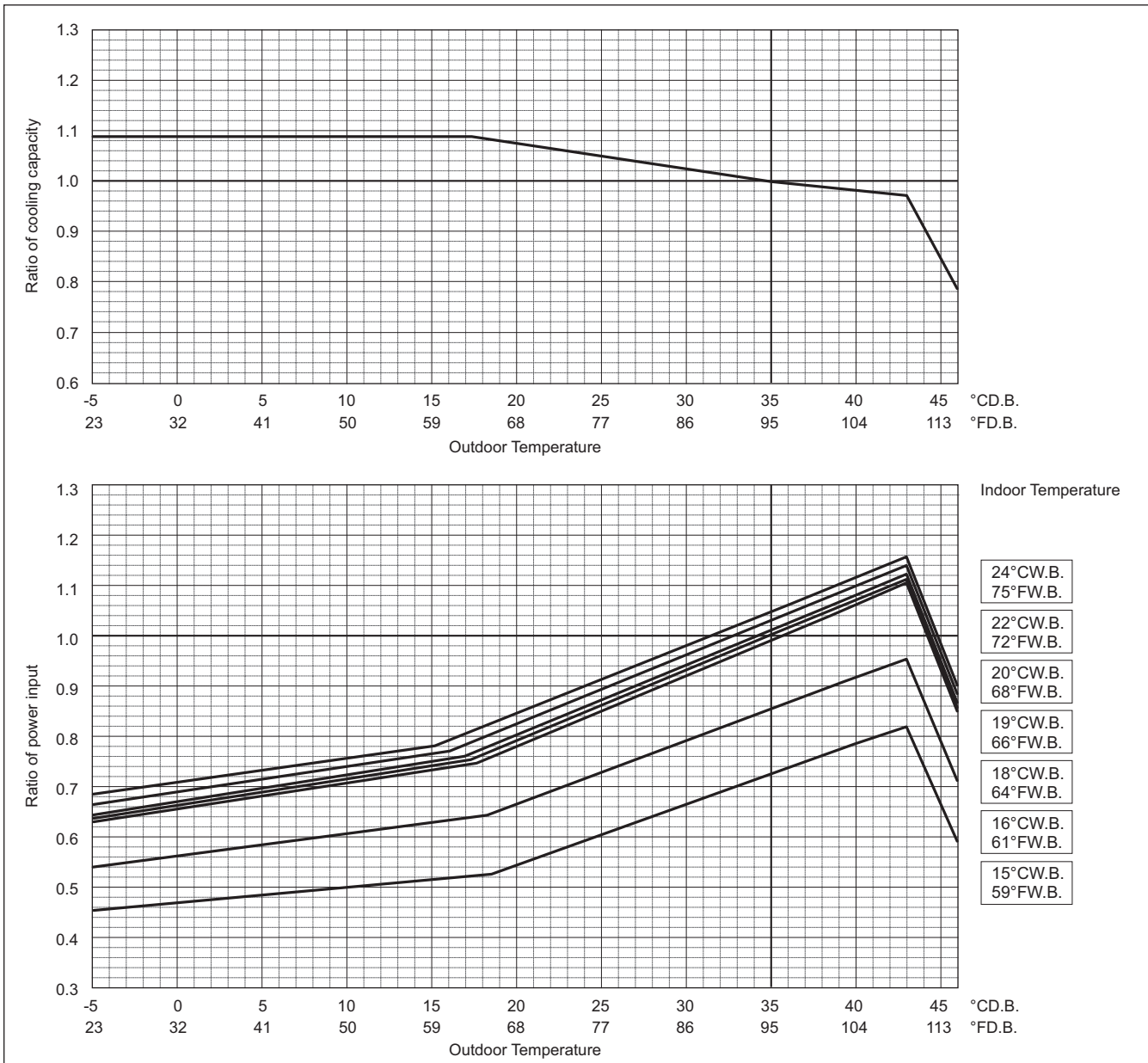


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

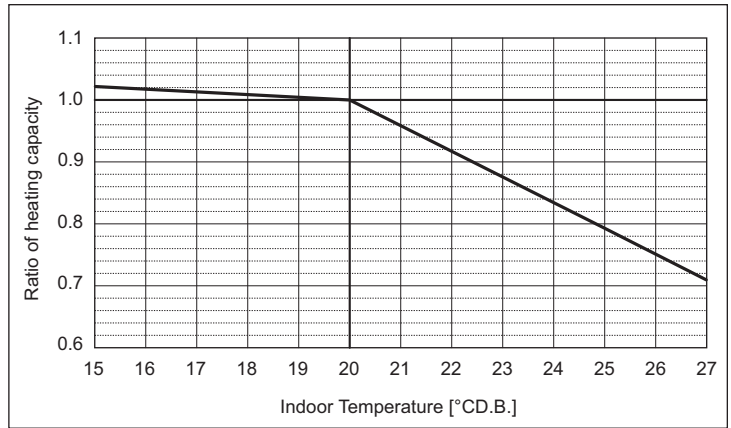


R2 (HIGH COP)

PURY-		EP450YLM-A1	EP500YLM-A1	EP550YSLM-A1
Nominal Heating Capacity	kW	56.0	63.0	69.0
	BTU/h	191,100	215,000	235,400
Input	kW	15.86	19.54	18.44

PURY-		EP600YSLM-A1	EP650YSLM-A1
Nominal Heating Capacity	kW	76.5	81.5
	BTU/h	261,000	278,100
Input	kW	20.34	22.51

Indoor unit temperature correction
To be used to correct indoor unit capacity only

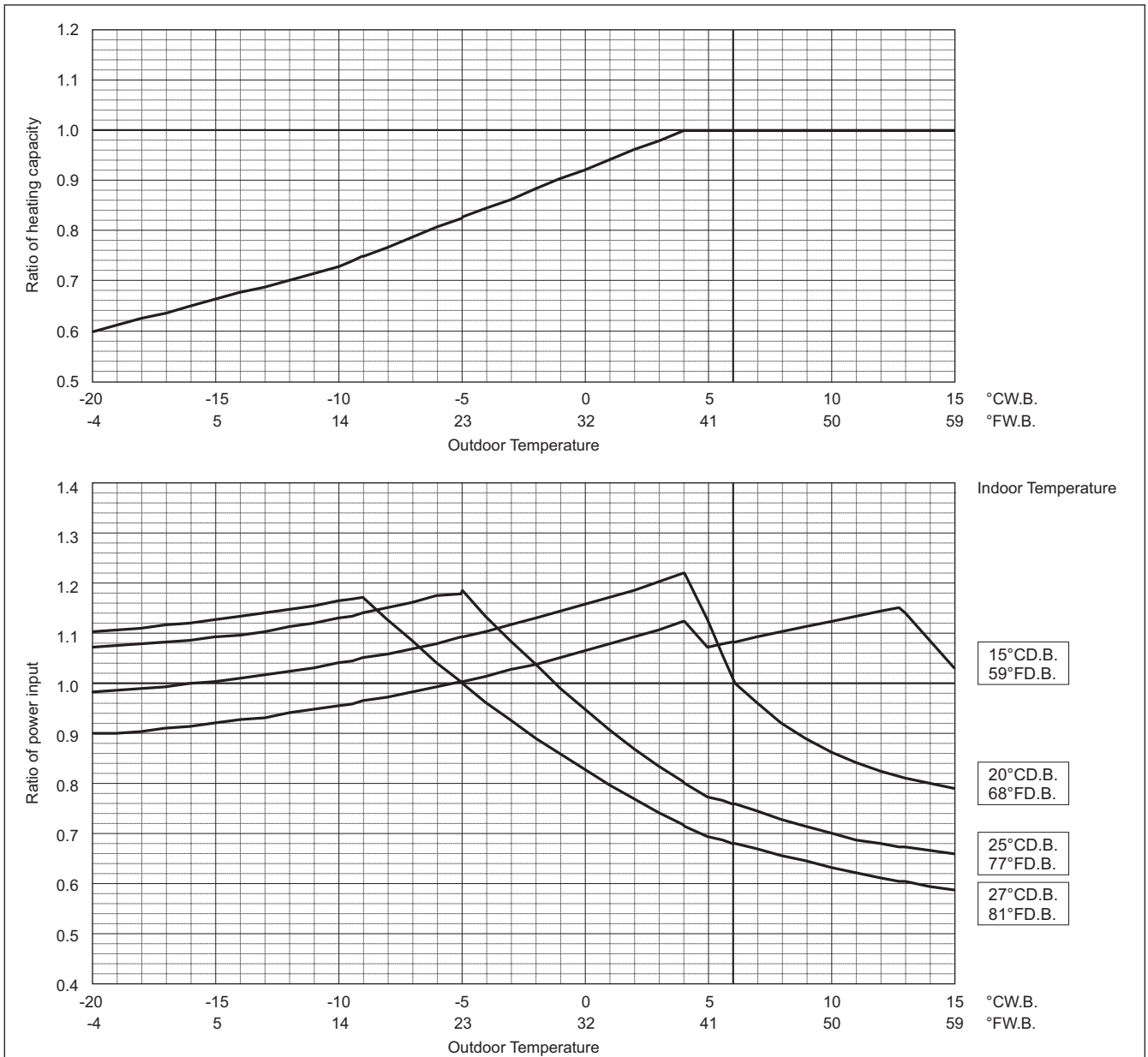


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

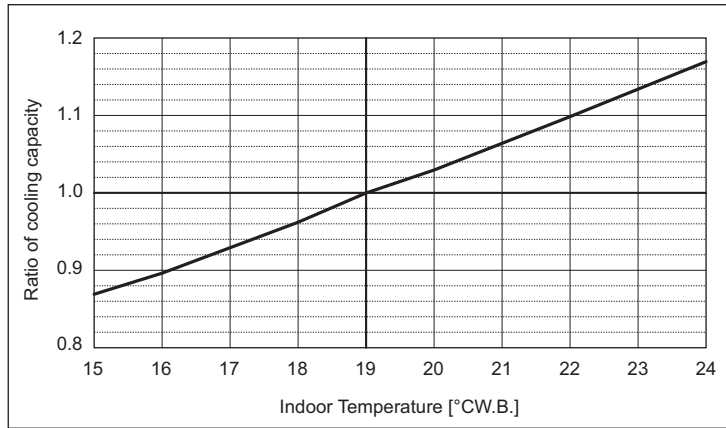


R2 (HIGH COP)

PURY-		EP700YSLM-A1	EP750YSLM-A1	EP800YSLM-A1
Nominal Cooling Capacity	kW	80.0	85.0	90.0
	BTU/h	273,000	290,000	307,100
Input	kW	25.97	25.99	25.93

Indoor unit temperature correction

To be used to correct indoor unit capacity only



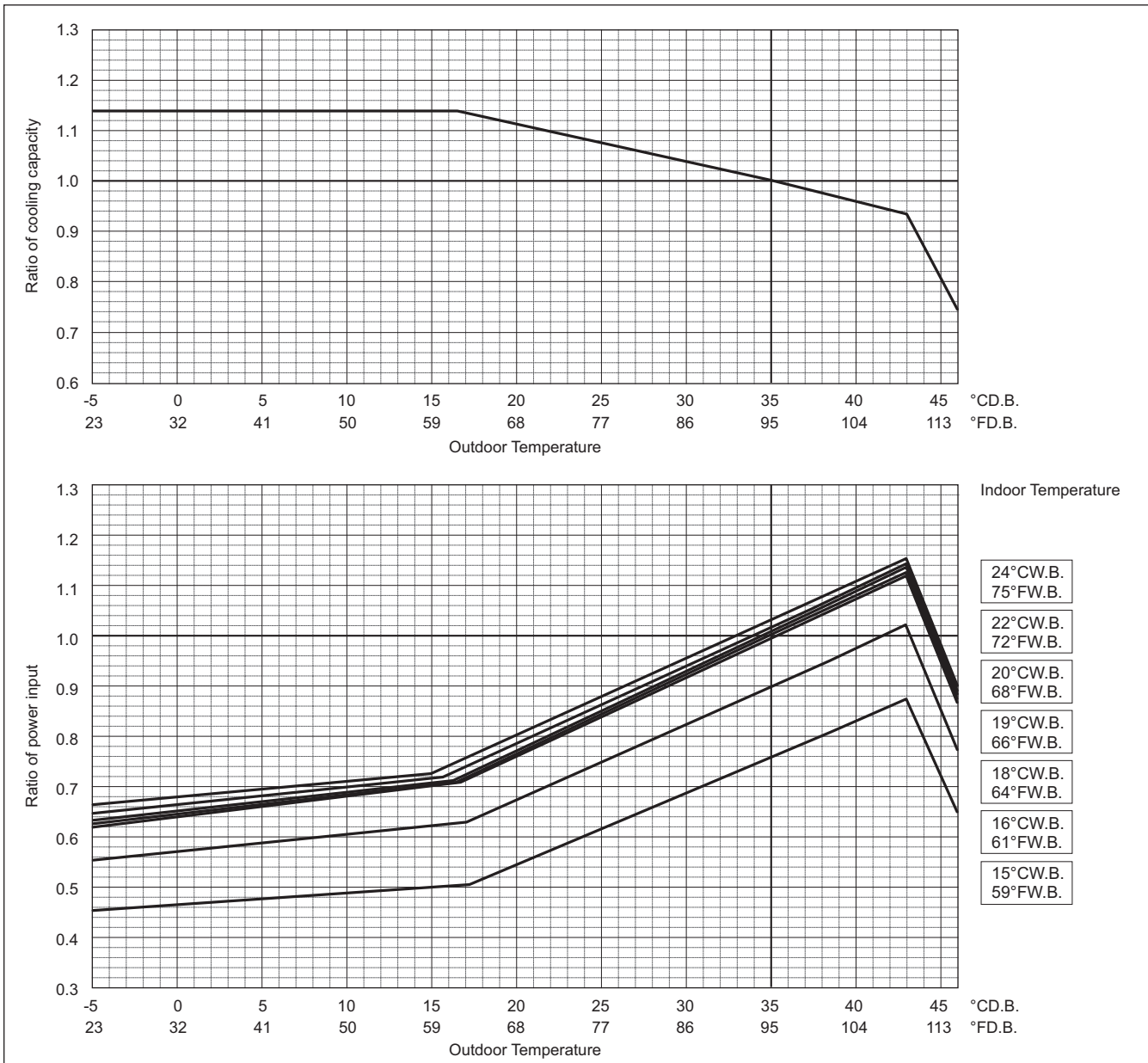
Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

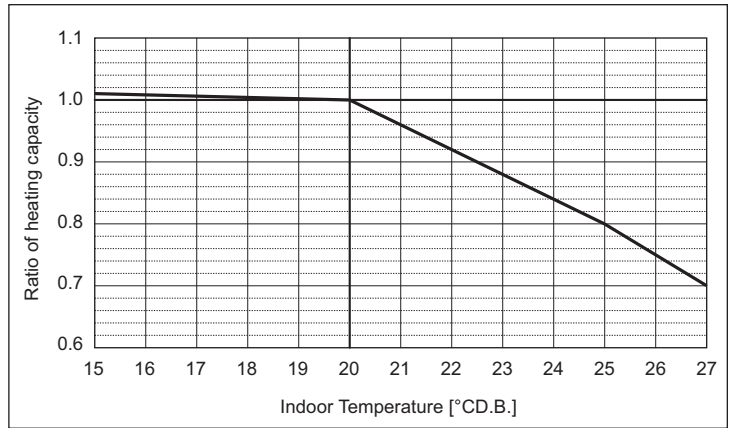
R2 (HIGH COP)



PURY-		EP700YSLM-A1	EP750YSLM-A1	EP800YSLM-A1
Nominal Heating Capacity	kW	88.0	95.0	100.0
	BTU/h	300,300	324,100	341,200
Input	kW	25.28	26.38	26.80

Indoor unit temperature correction

To be used to correct indoor unit capacity only

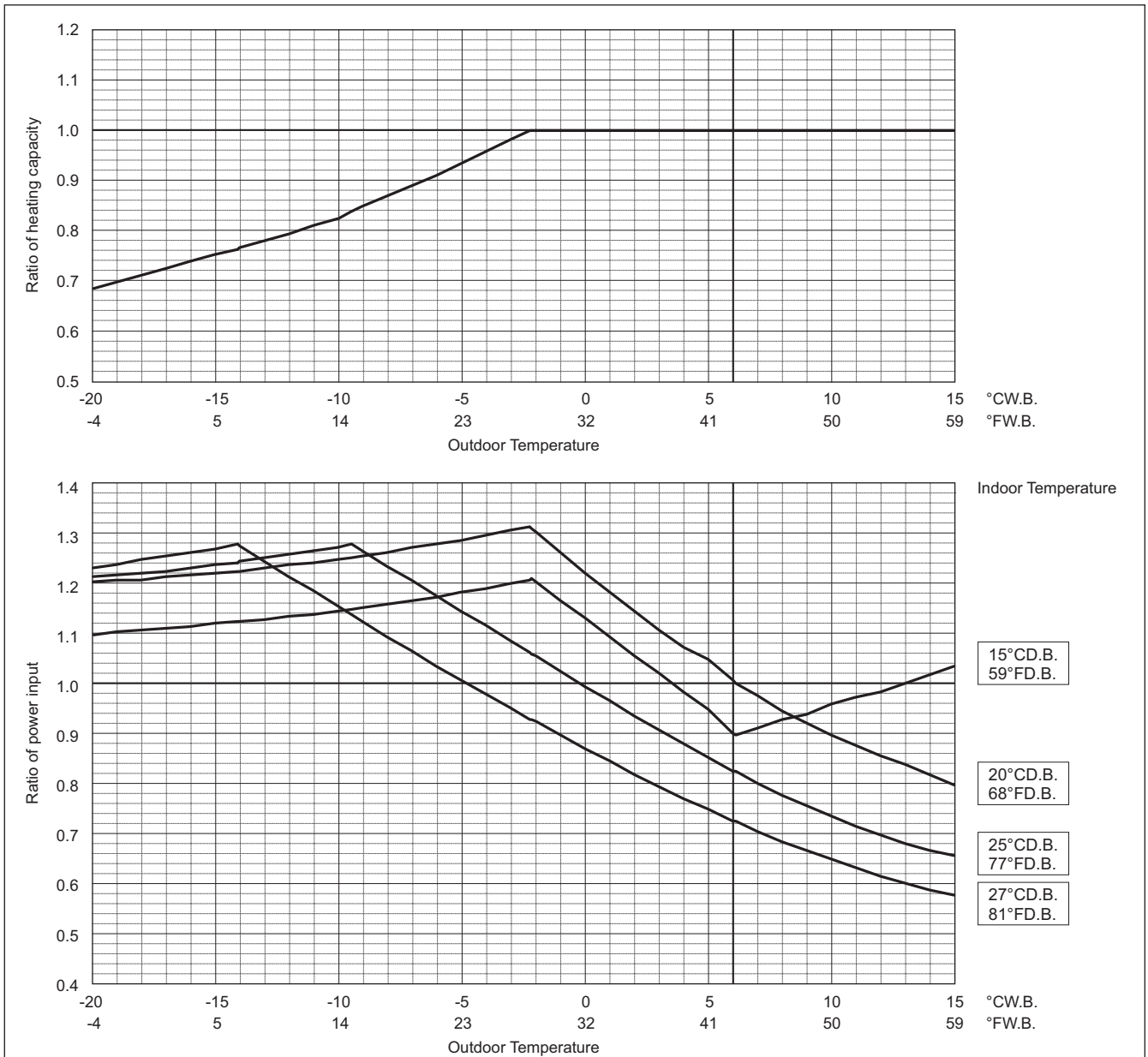


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

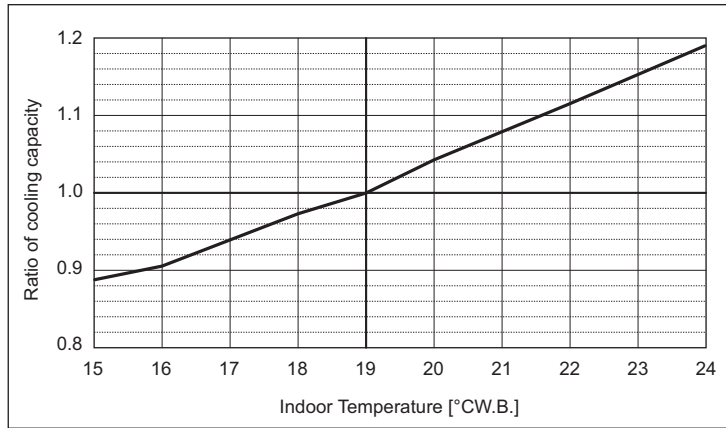


R2 (HIGH COP)

PURY-		EP850YSLM-A1	EP900YSLM-A1
Nominal Cooling Capacity	kW	96.0	101.0
	BTU/h	327,600	344,600
Input	kW	28.48	30.98

Indoor unit temperature correction

To be used to correct indoor unit capacity only

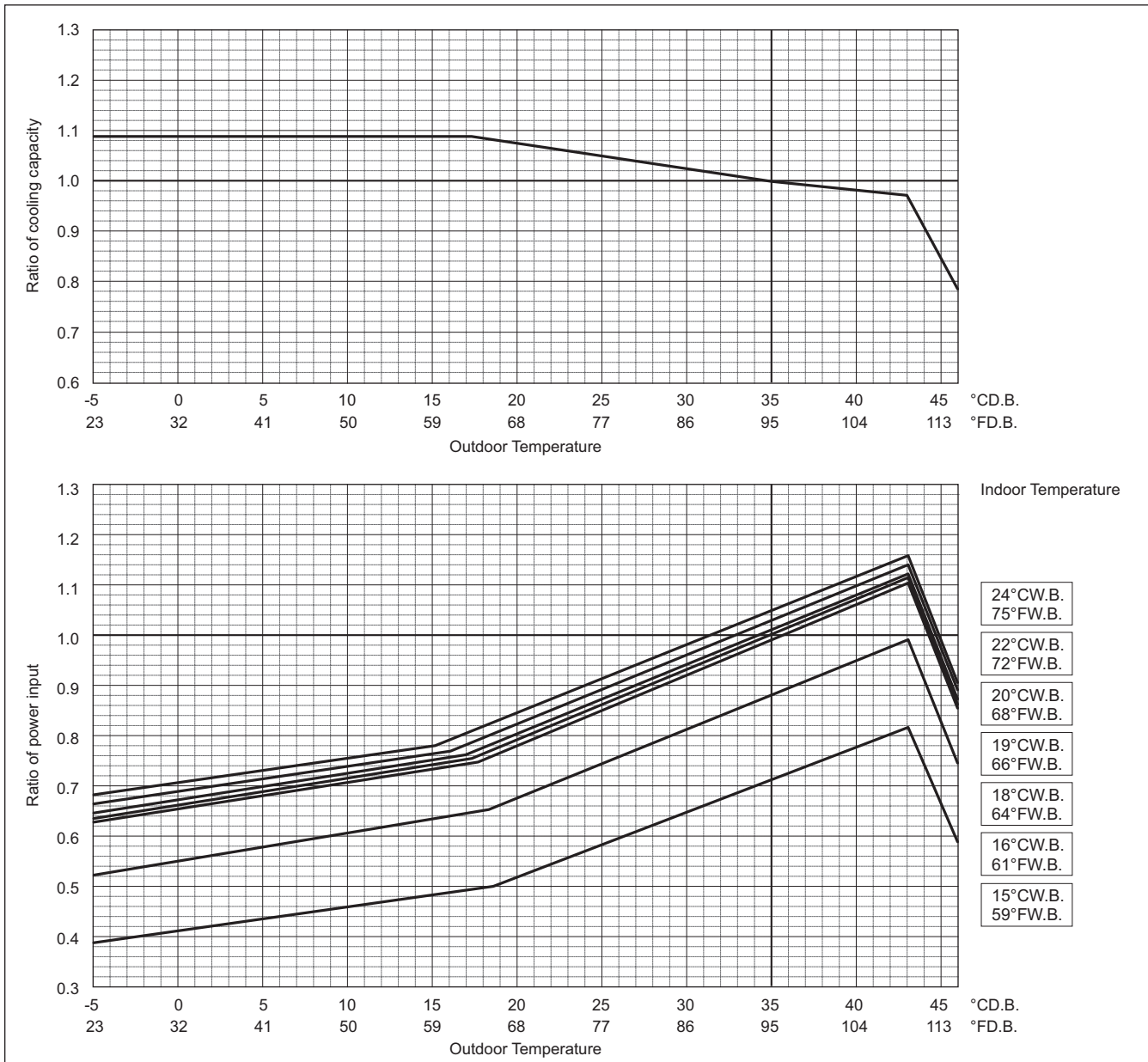


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

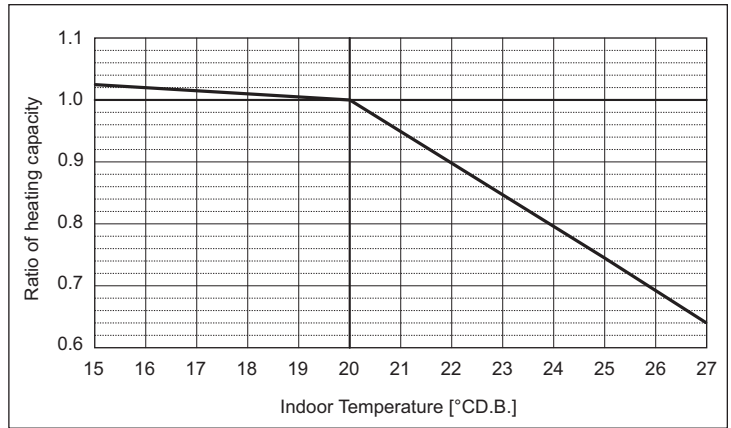


R2 (HIGH COP)

PURY-		EP850YSLM-A1	EP900YSLM-A1
Nominal Heating Capacity	kW	108.0	113.0
	BTU/h	368,500	385,600
Input	kW	29.75	32.01

Indoor unit temperature correction

To be used to correct indoor unit capacity only

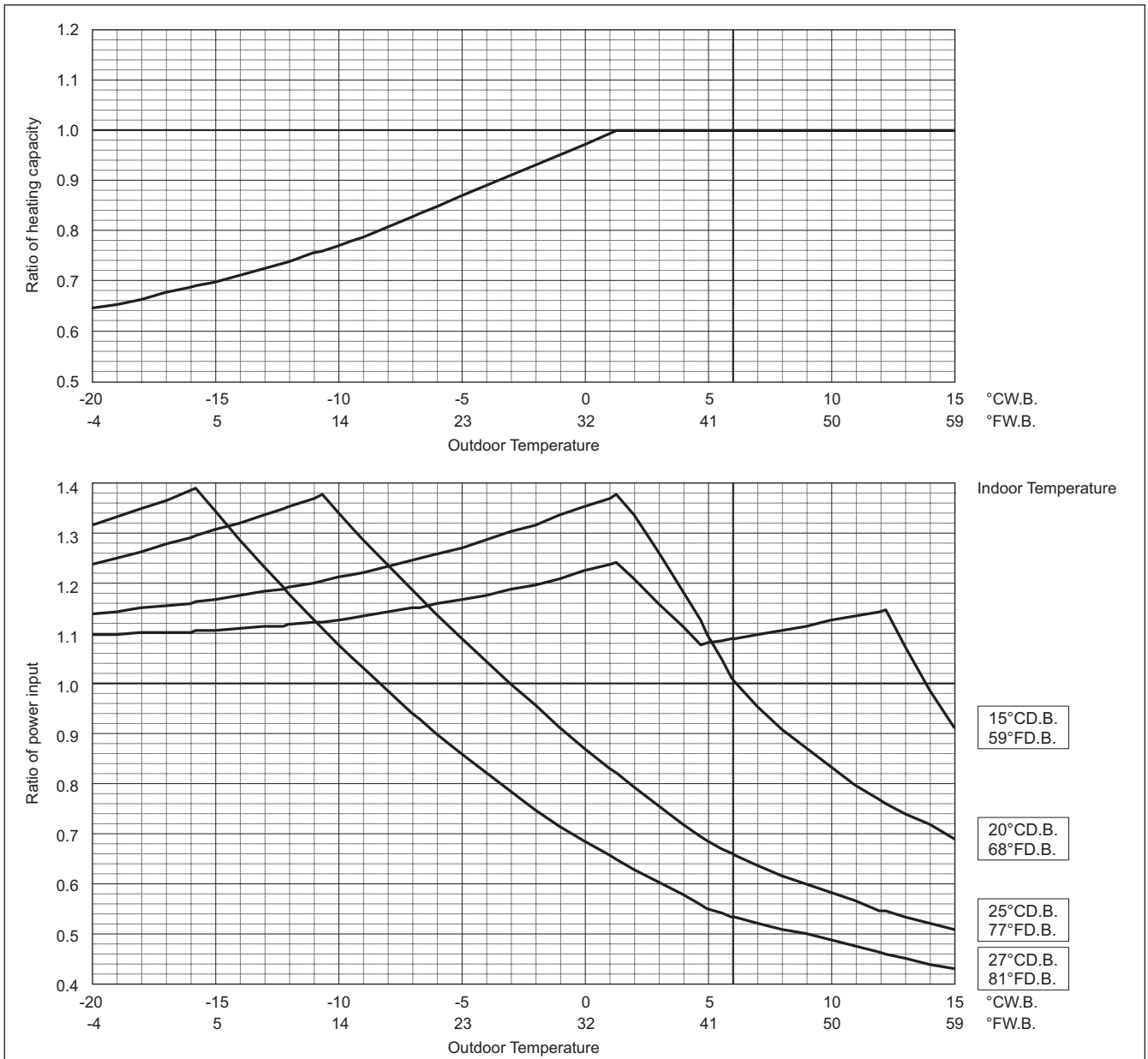


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.



R2 (HIGH COP)

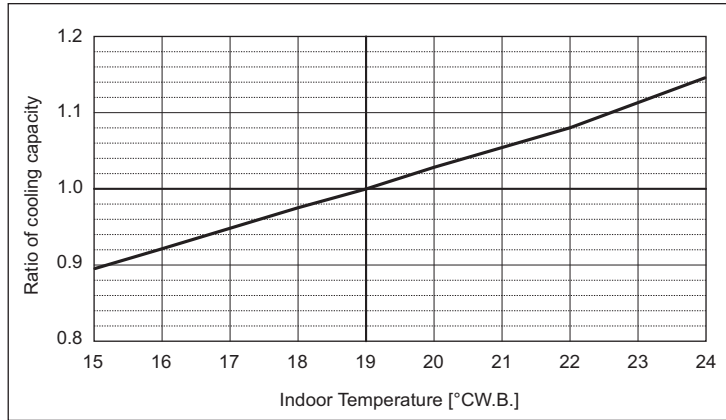
Correction by temperature (COP Priority Mode only for heating)

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. To select COP priority mode, DipSW 6-2 must be set to ON.

PURY-		EP200YLM-A1	EP250YLM-A1
Nominal Cooling Capacity	kW	22.4	28.0
	BTU/h	76,400	95,500
Input	kW	5.48	7.25

Indoor unit temperature correction

To be used to correct indoor unit capacity only



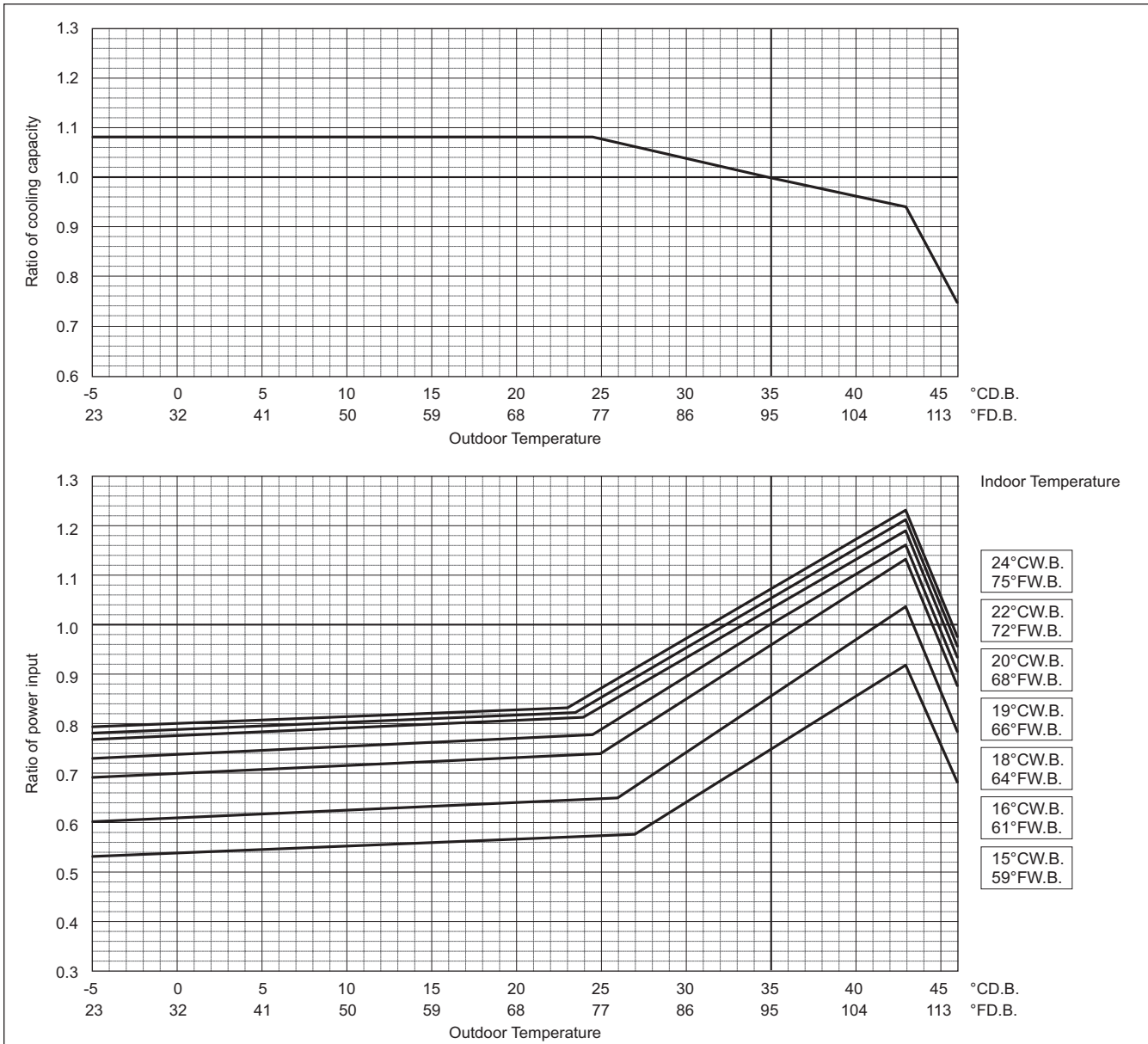
Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

R2 (HIGH COP)

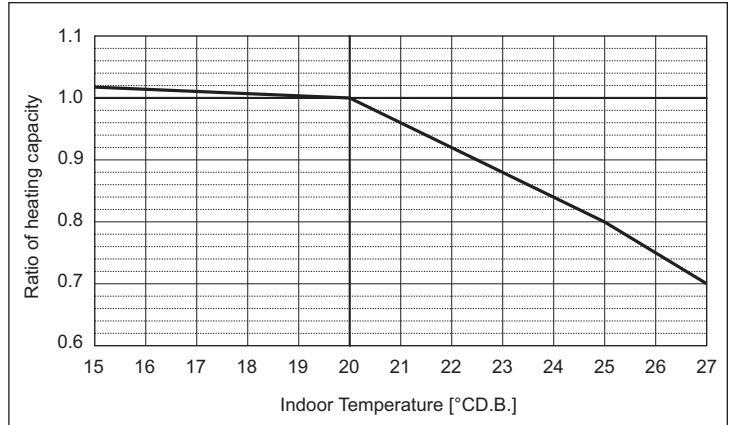


COP Priority Mode

	PURY-	EP200YLM-A1	EP250YLM-A1
Nominal Heating Capacity	kW	25.0	31.5
	BTU/h	85,300	107,500
Input	kW	6.41	8.45

Indoor unit temperature correction

To be used to correct indoor unit capacity only

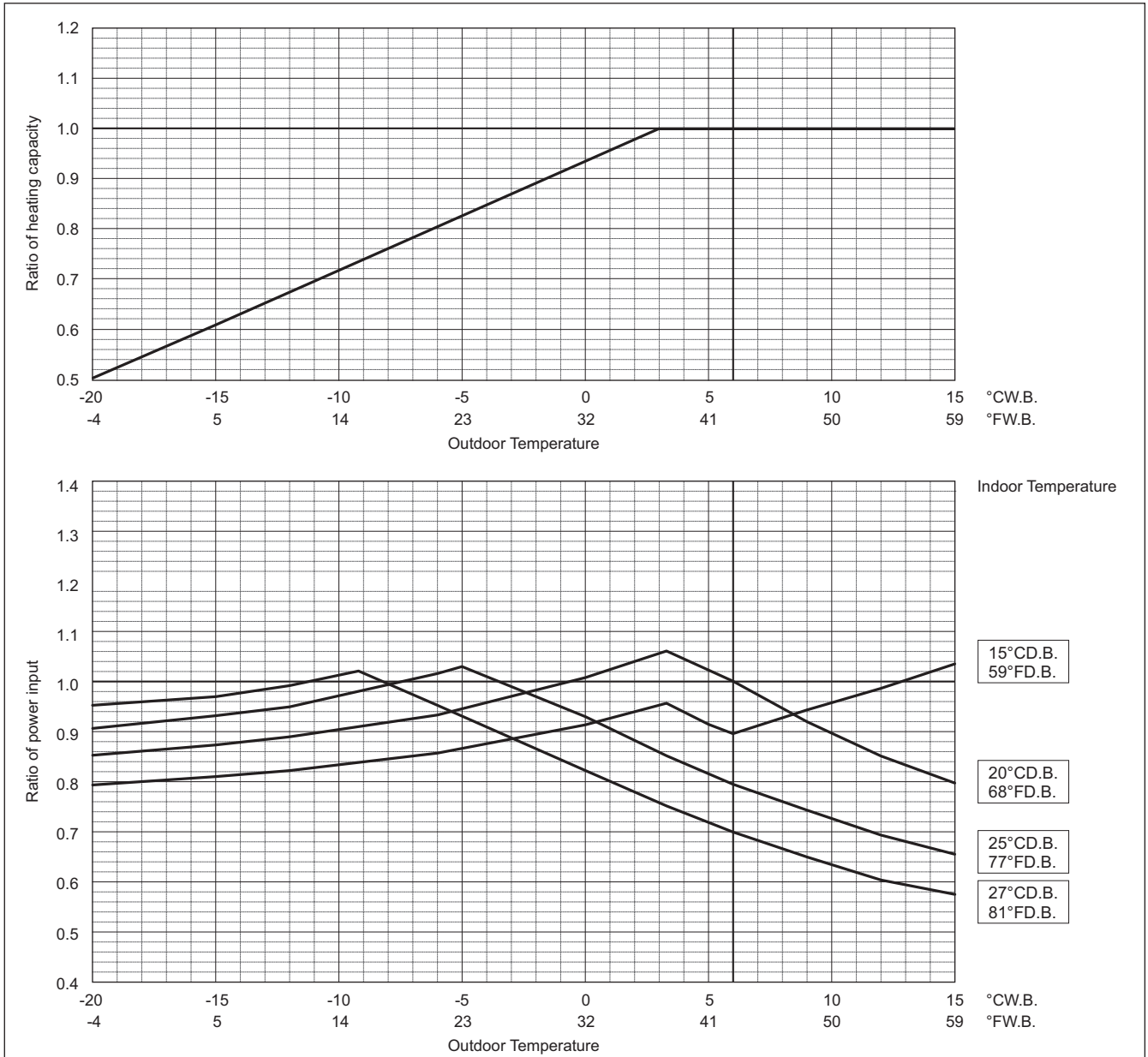


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

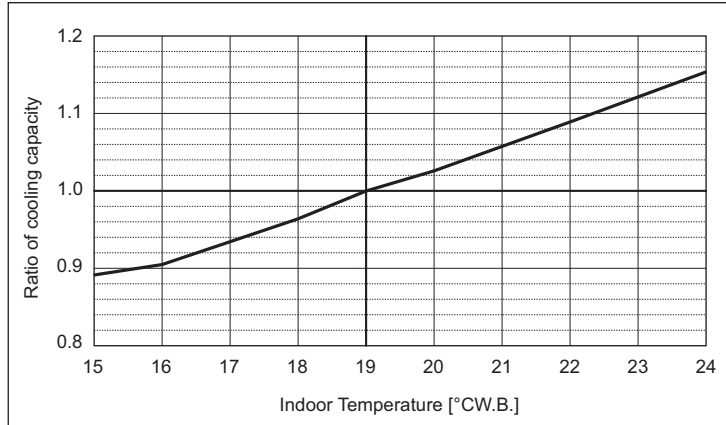


R2 (HIGH COP)

PURY-	EP300YLM-A1	EP350YLM-A1	EP400YLM-A1	
Nominal Cooling Capacity	kW	33.5	40.0	45.0
	BTU/h	114,300	136,500	153,500
Input	kW	9.20	12.57	12.56

Indoor unit temperature correction

To be used to correct indoor unit capacity only

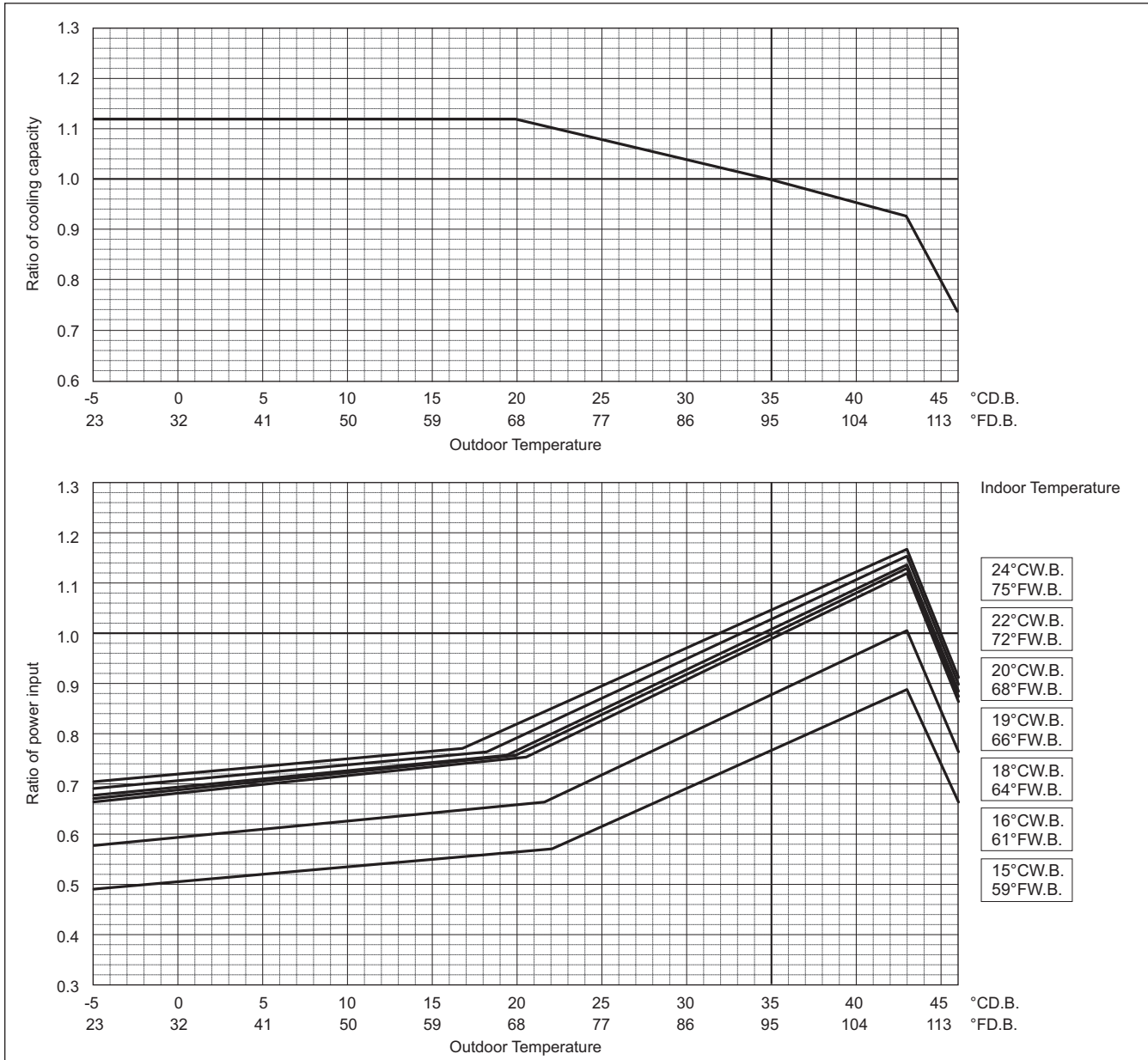


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.



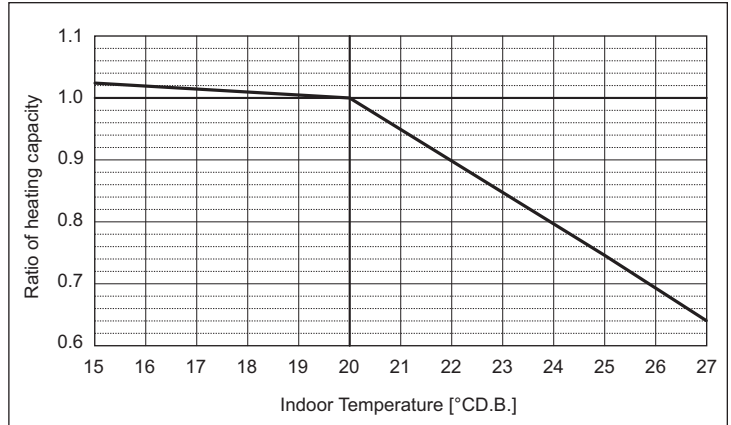
R2 (HIGH COP)

COP Priority Mode

	PURY-	EP300YLM-A1	EP350YLM-A1	EP400YLM-A1
Nominal Heating Capacity	kW	37.5	45.0	50.0
Capacity	BTU/h	128,000	153,500	170,600
Input	kW	9.97	12.93	13.40

Indoor unit temperature correction

To be used to correct indoor unit capacity only

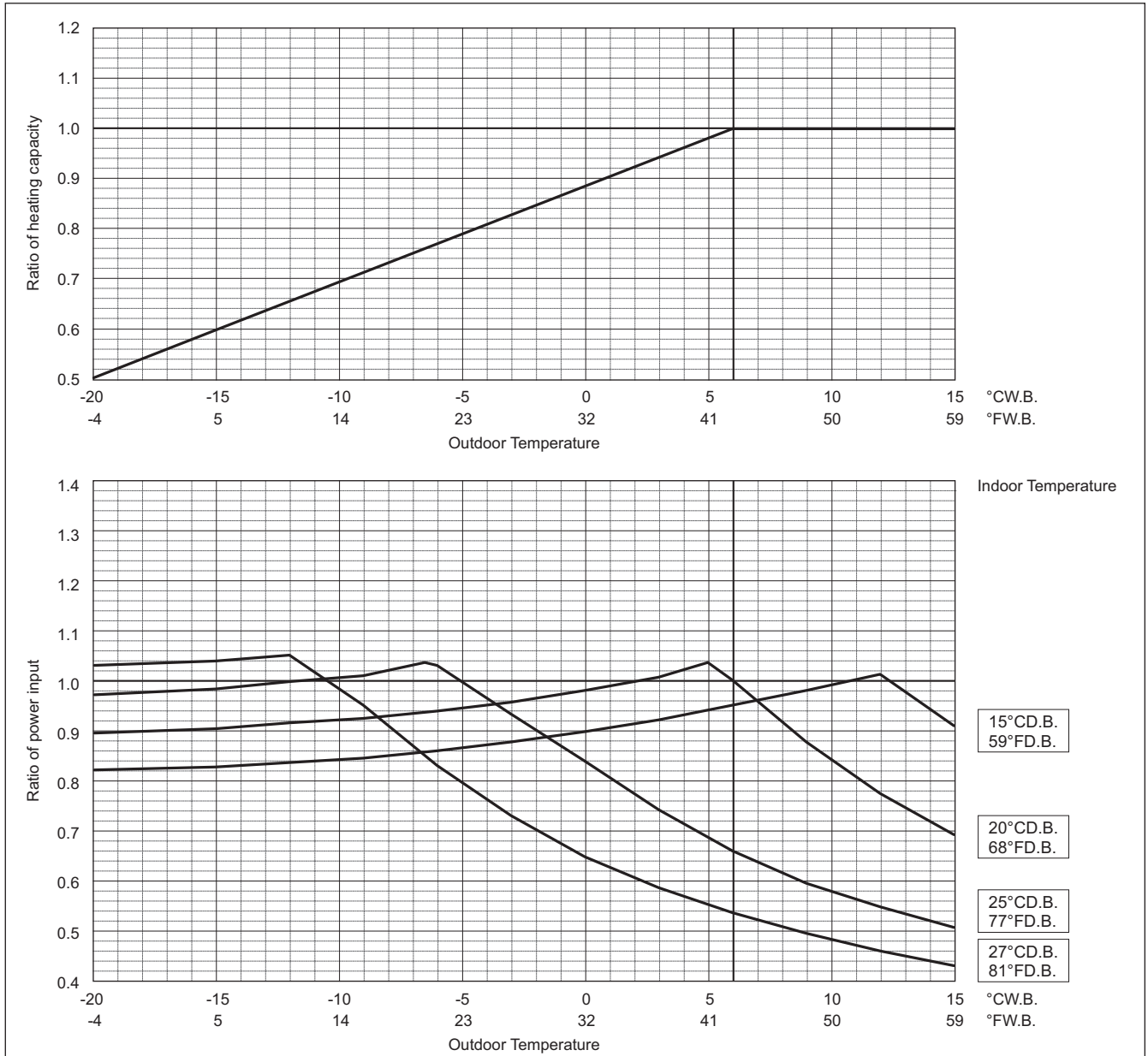


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

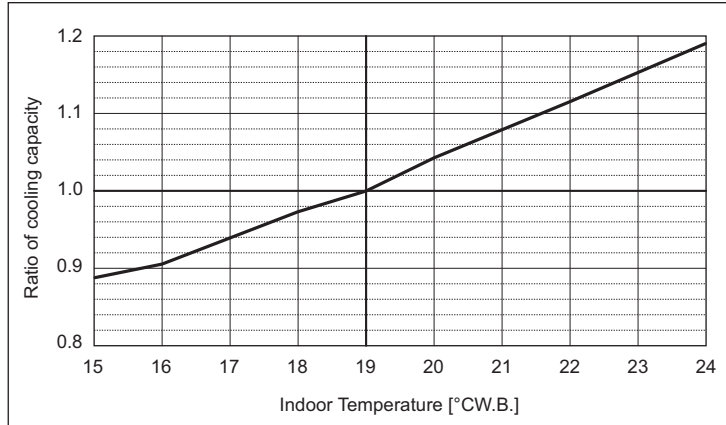


R2 (HIGH COP)

PURY-		EP450YLM-A1	EP500YLM-A1	EP550YSLM-A1
Nominal Cooling Capacity	kW	50.0	56.0	63.0
	BTU/h	170,600	191,100	215,000
Input	kW	14.83	18.30	17.35

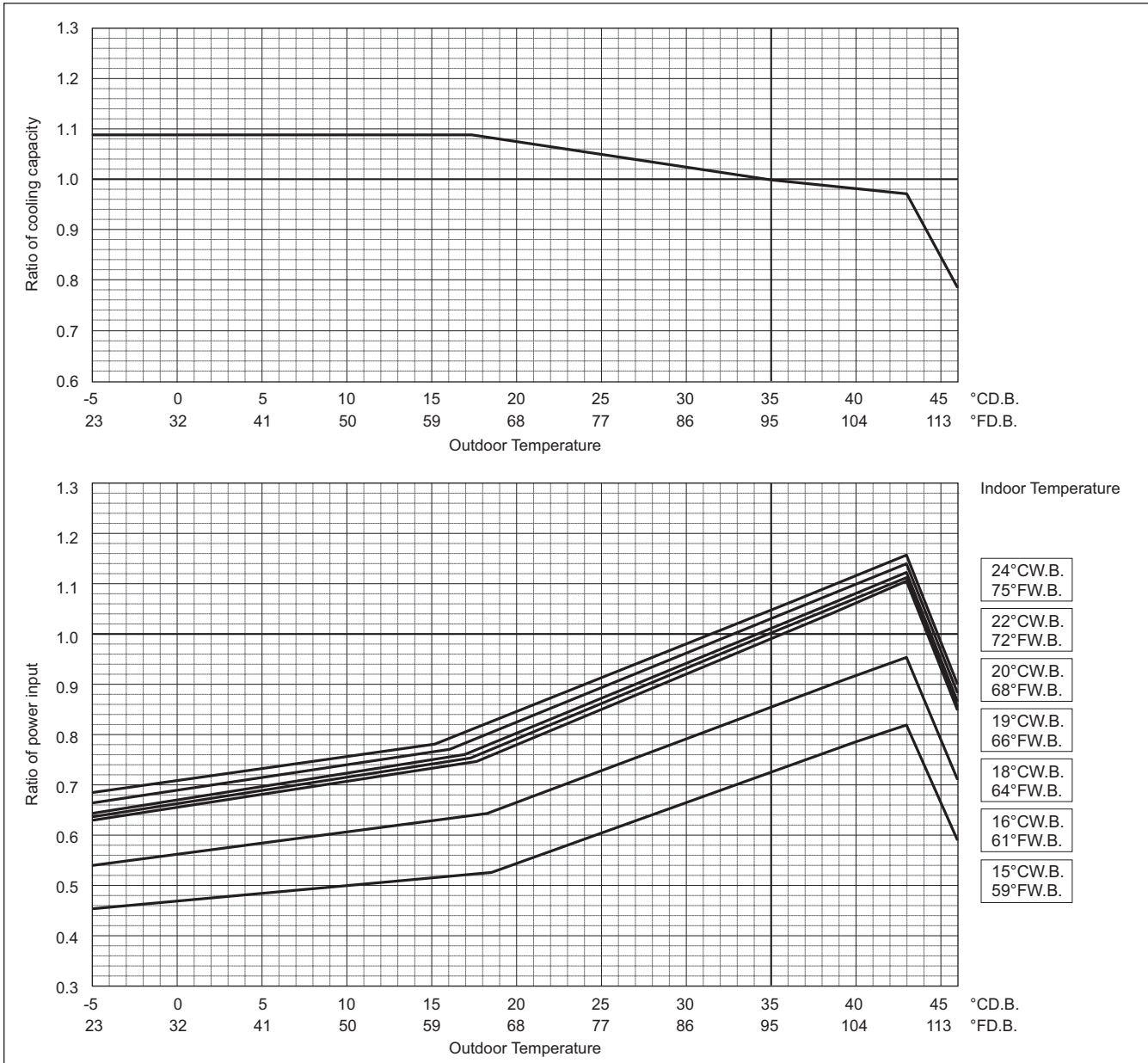
PURY-		EP600YSLM-A1	EP650YSLM-A1
Nominal Cooling Capacity	kW	69.0	73.0
	BTU/h	235,400	249,100
Input	kW	19.54	22.12

Indoor unit temperature correction
To be used to correct indoor unit capacity only



Outdoor unit temperature correction
To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.
Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.



R2 (HIGH COP)

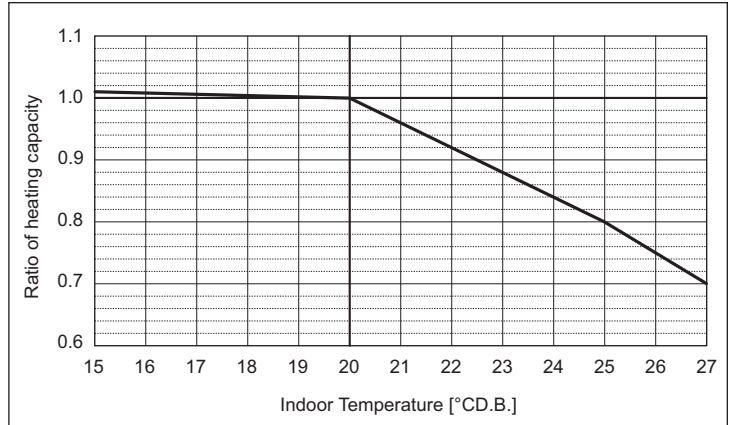
COP Priority Mode

PURY-		EP450YLM-A1	EP500YLM-A1	EP550YSLM-A1
Nominal Heating Capacity	kW	56.0	63.0	69.0
	BTU/h	191,100	215,000	235,400
Input	kW	15.86	19.54	18.44

PURY-		EP600YSLM-A1	EP650YSLM-A1
Nominal Heating Capacity	kW	76.5	81.5
	BTU/h	261,000	278,100
Input	kW	20.34	22.51

Indoor unit temperature correction

To be used to correct indoor unit capacity only

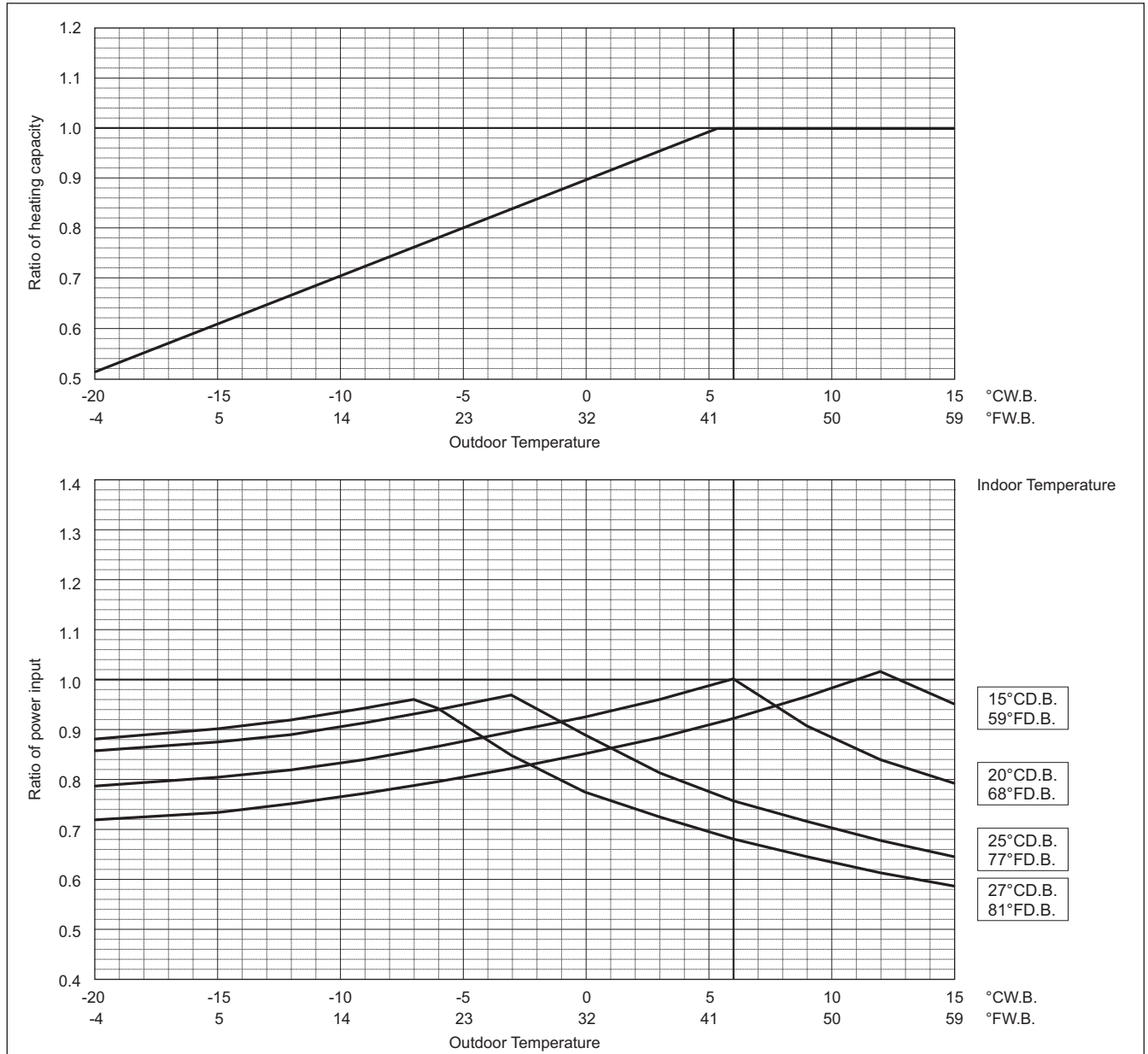


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

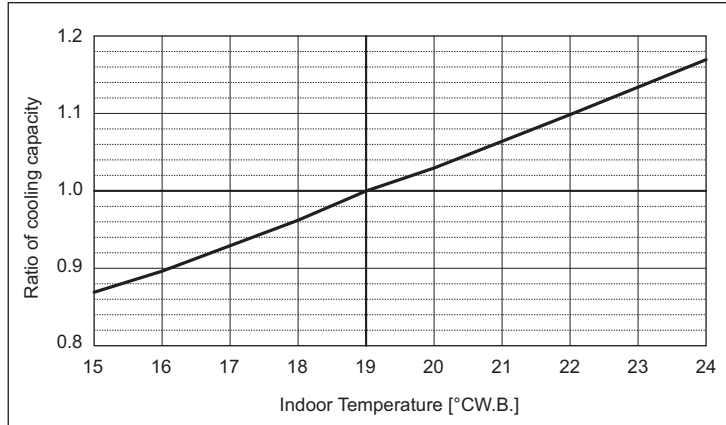


R2 (HIGH COP)

PURY-	EP700YSLM-A1	EP750YSLM-A1	EP800YSLM-A1	
Nominal Cooling Capacity	kW	80.0	85.0	90.0
	BTU/h	273,000	290,000	307,100
Input	kW	25.97	25.99	25.93

Indoor unit temperature correction

To be used to correct indoor unit capacity only

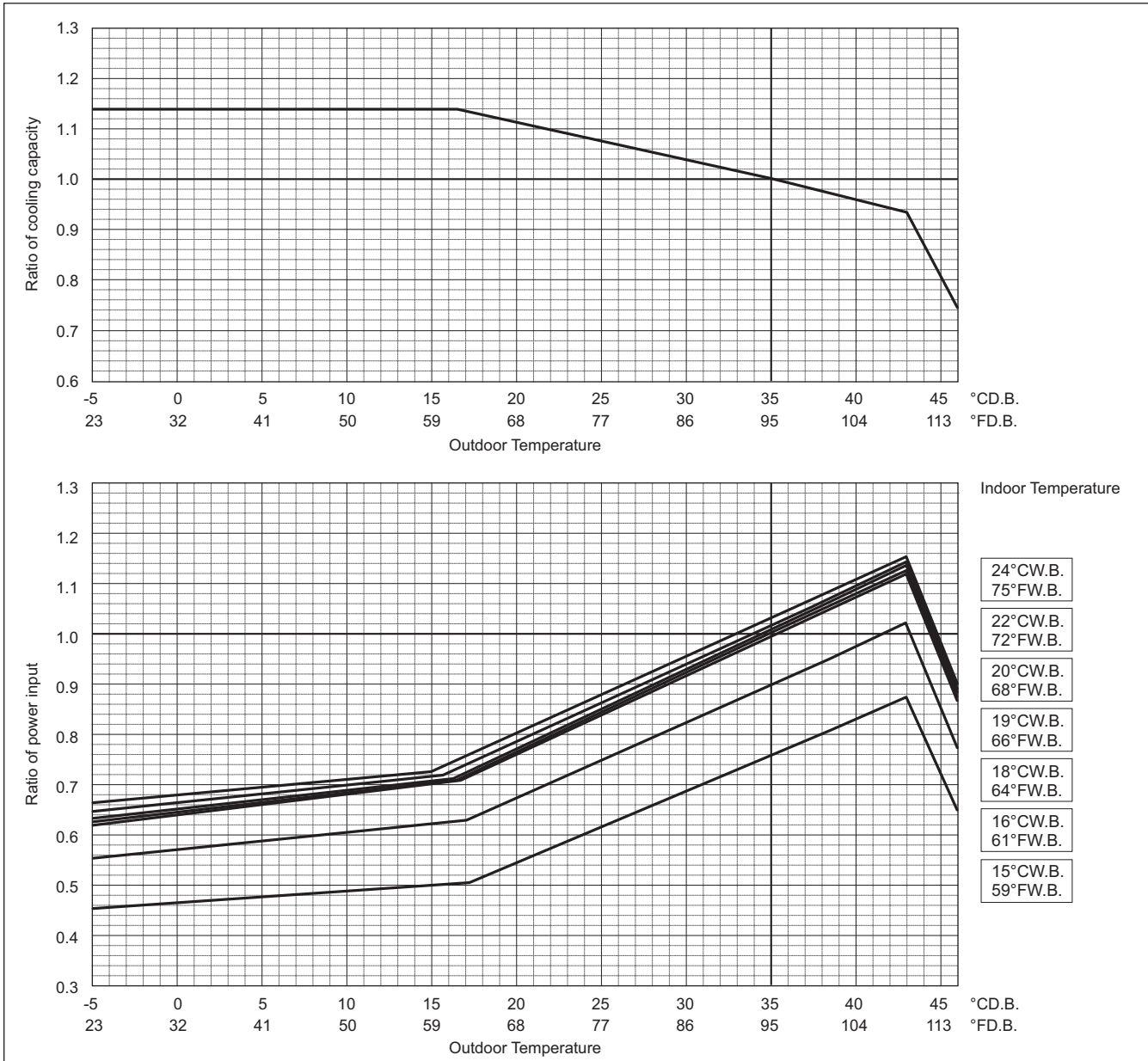


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.



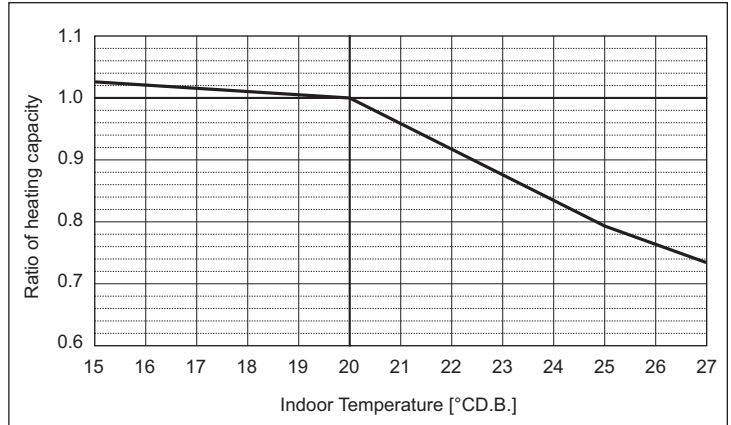
R2 (HIGH COP)

COP Priority Mode

	PURY-	EP700YSLM-A1	EP750YSLM-A1	EP800YSLM-A1
Nominal Heating Capacity	kW	88.0	95.0	100.0
Capacity	BTU/h	300,300	324,100	341,200
Input	kW	25.28	26.38	26.80

Indoor unit temperature correction

To be used to correct indoor unit capacity only

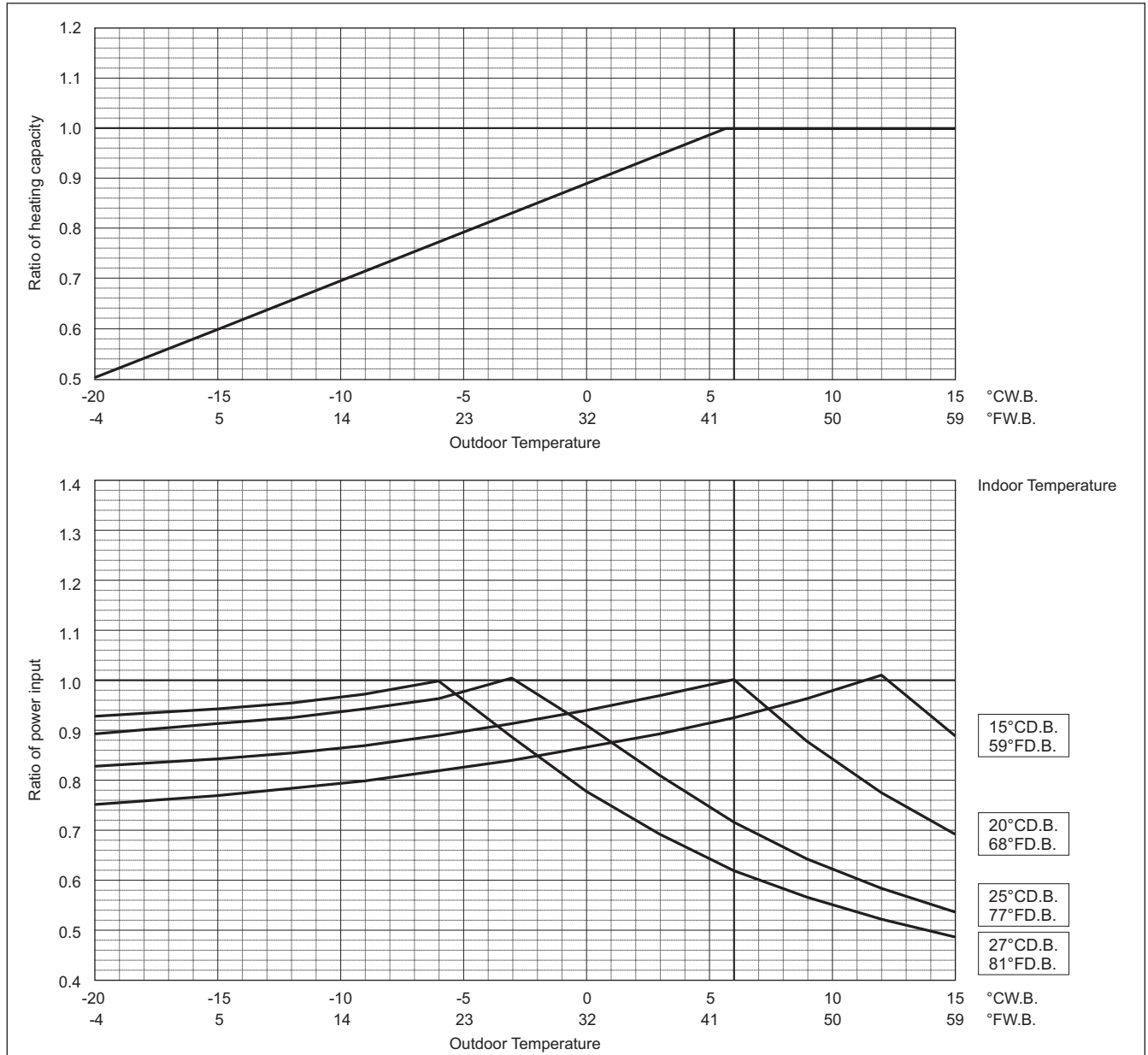


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

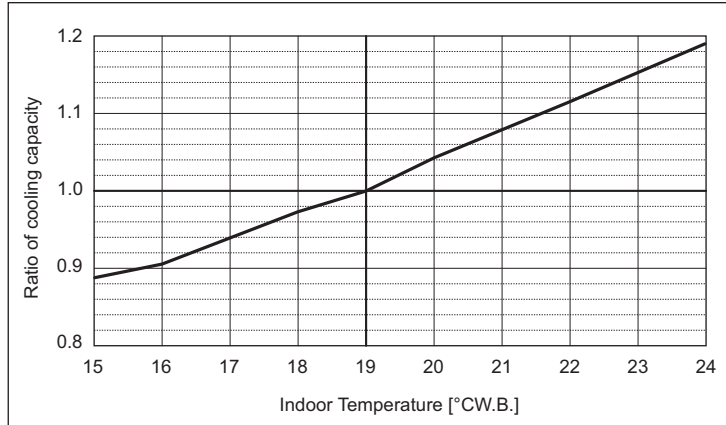


R2 (HIGH COP)

PURY-	EP850YSLM-A1	EP900YSLM-A1
Nominal Cooling Capacity	kW 96.0	101.0
	BTU/h 327,600	344,600
Input	kW 28.48	30.98

Indoor unit temperature correction

To be used to correct indoor unit capacity only

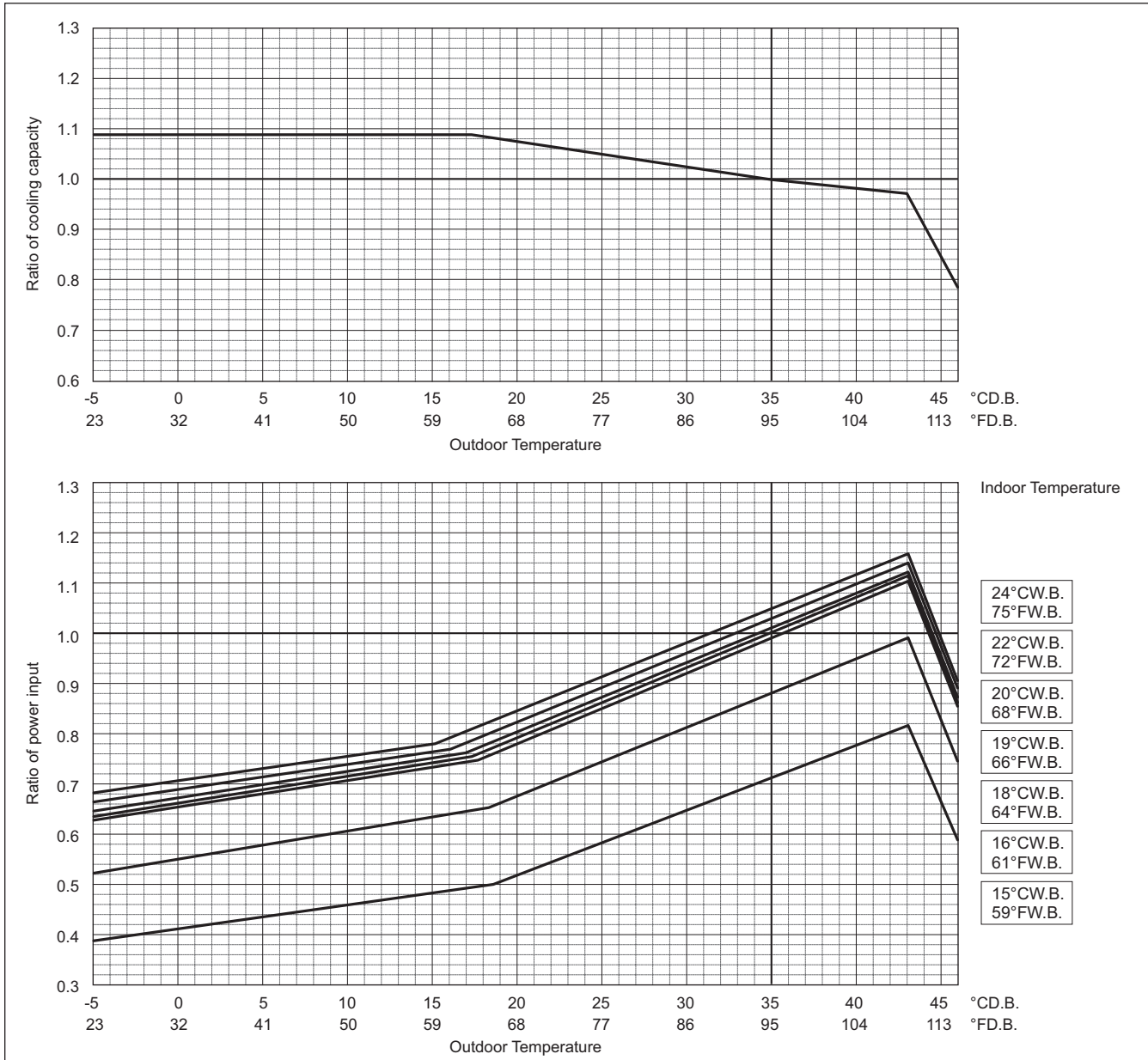


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.



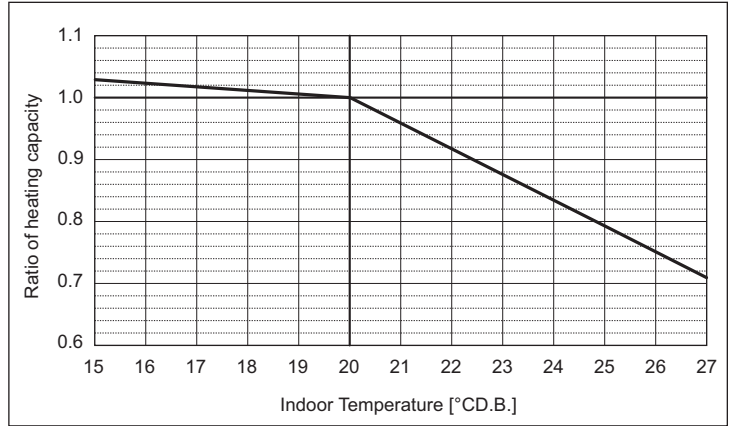
R2 (HIGH COP)

COP Priority Mode

	PURY-	EP850YSLM-A1	EP900YSLM-A1
Nominal Heating Capacity	kW	108.0	113.0
	BTU/h	368,500	385,600
Input	kW	29.75	32.01

Indoor unit temperature correction

To be used to correct indoor unit capacity only

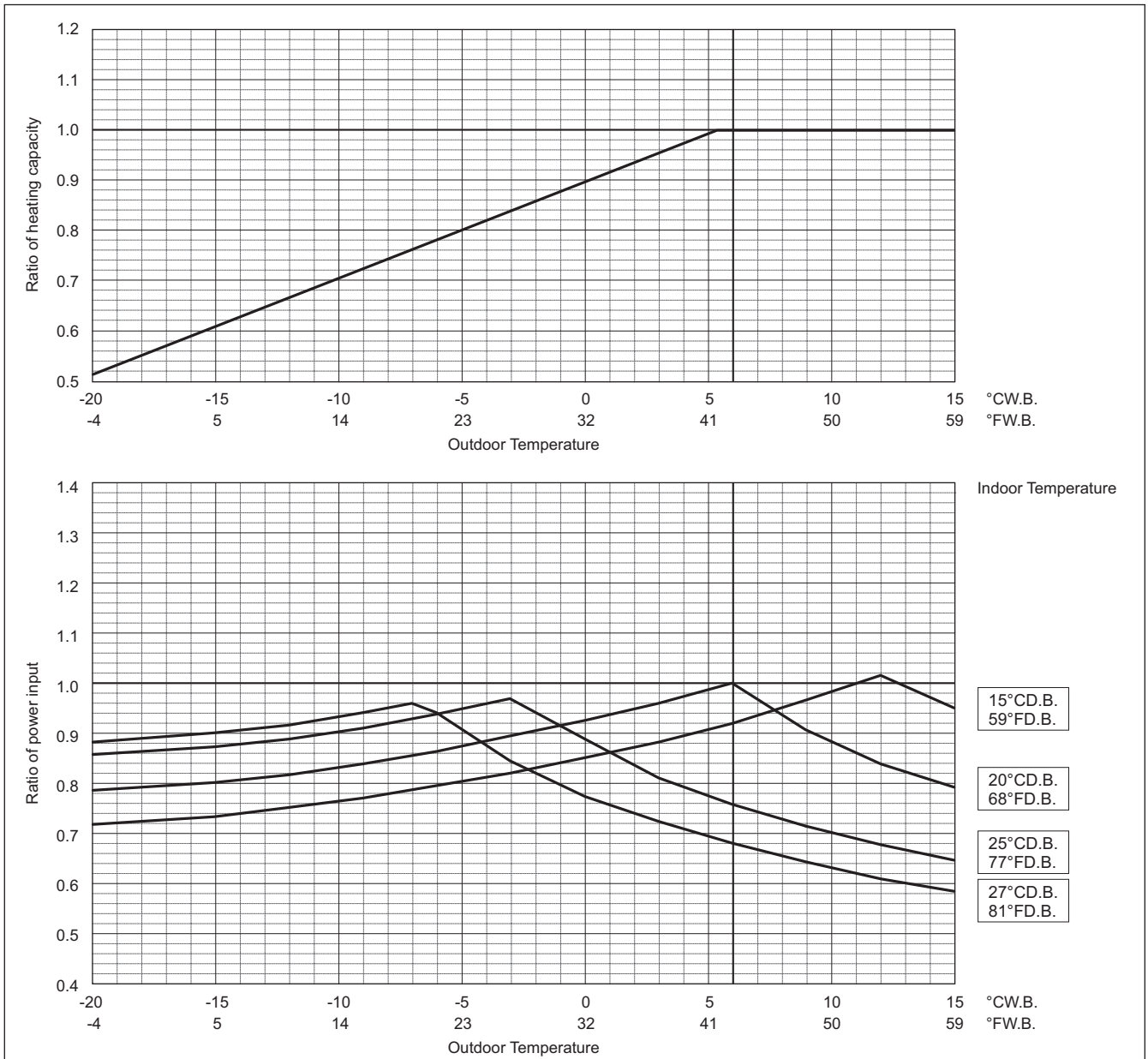


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.



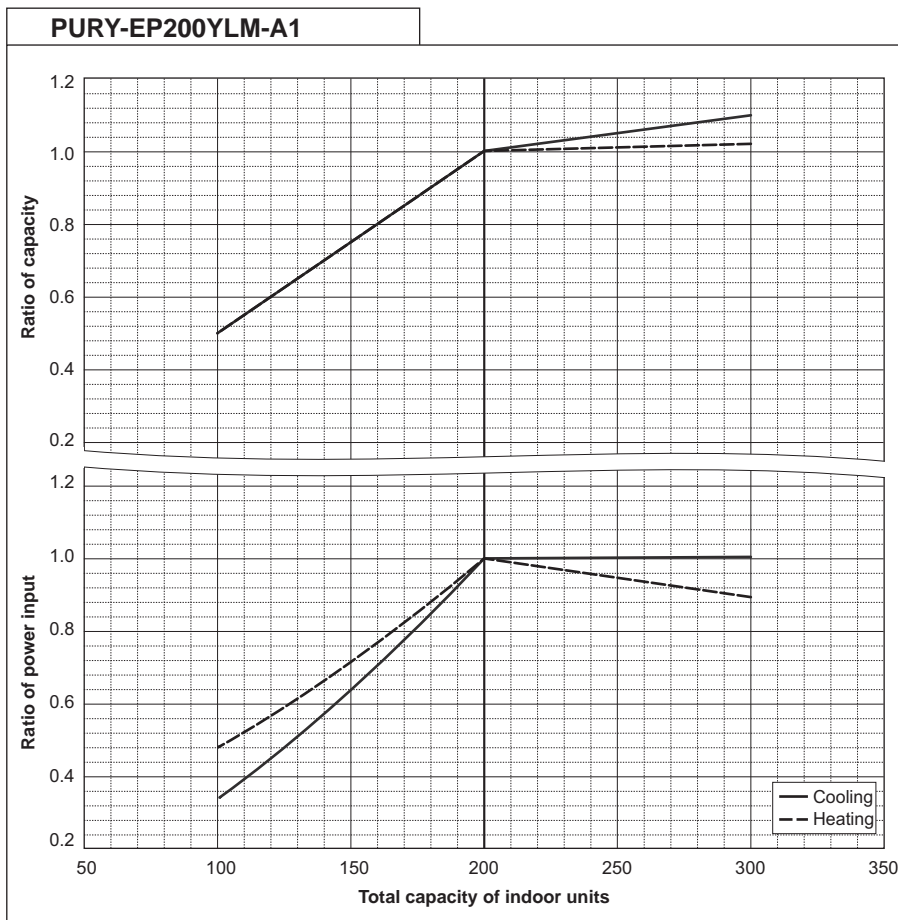
R2 (HIGH COP)

8-3. 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.

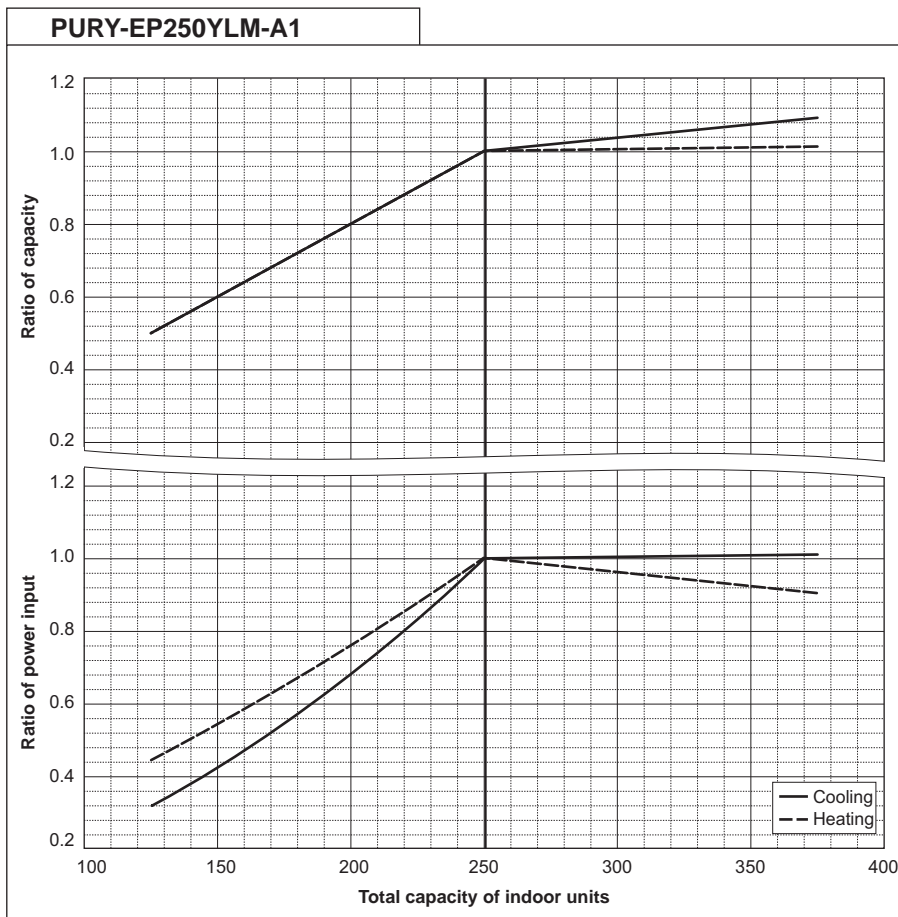
PURY-EP200YLM-A1		
Nominal Cooling Capacity	kW	22.4
	BTU/h	76,400
Input	kW	5.48

PURY-EP200YLM-A1		
Nominal Heating Capacity	kW	25.0
	BTU/h	85,300
Input	kW	6.41



PURY-EP250YLM-A1		
Nominal Cooling Capacity	kW	28.0
	BTU/h	95,500
Input	kW	7.25

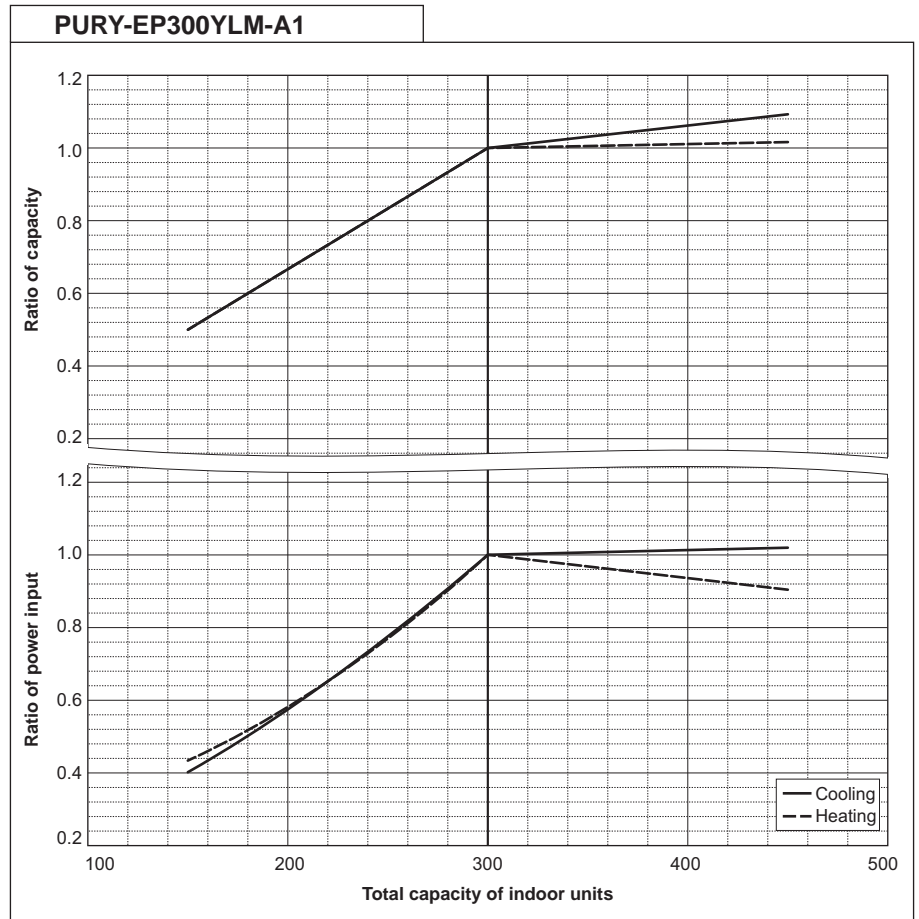
PURY-EP250YLM-A1		
Nominal Heating Capacity	kW	31.5
	BTU/h	107,500
Input	kW	8.45



R2 (HIGH COP)

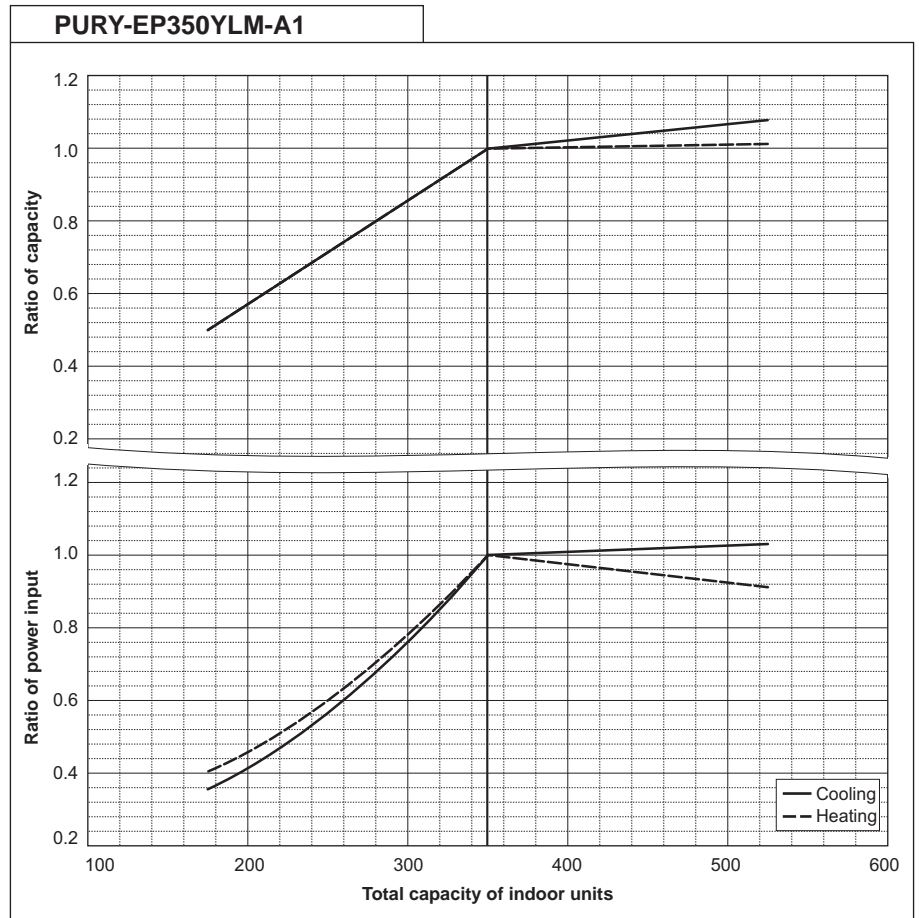
PURY-EP300YLM-A1		
Nominal Cooling Capacity	kW	33.5
	BTU/h	114,300
Input	kW	9.20

PURY-EP300YLM-A1		
Nominal Heating Capacity	kW	37.5
	BTU/h	128,000
Input	kW	9.97



PURY-EP350YLM-A1		
Nominal Cooling Capacity	kW	40.0
	BTU/h	136,500
Input	kW	12.57

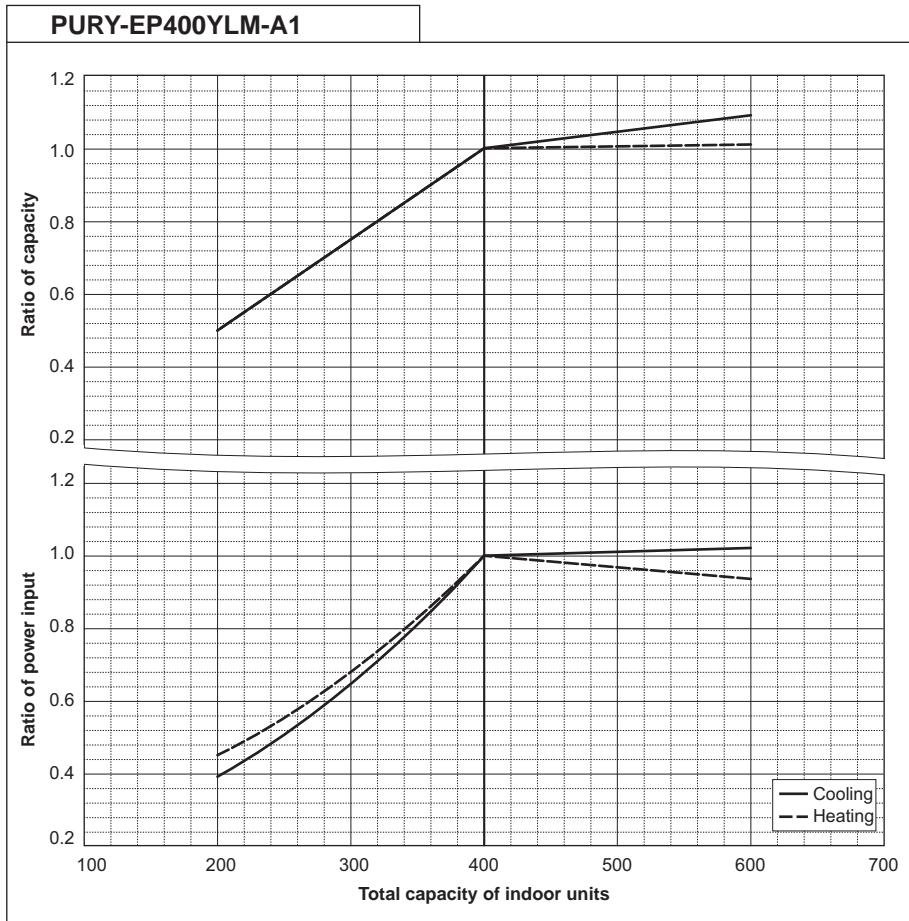
PURY-EP350YLM-A1		
Nominal Heating Capacity	kW	45.0
	BTU/h	153,500
Input	kW	12.93



R2 (HIGH COP)

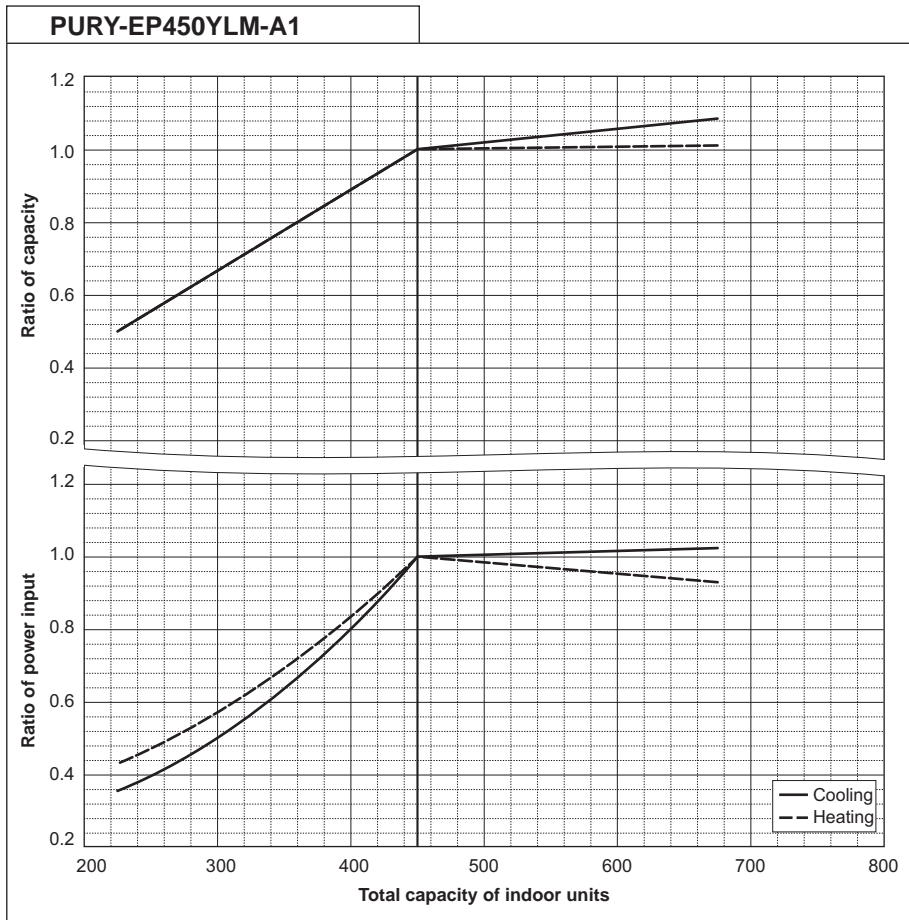
PURY-EP400YLM-A1		
Nominal Cooling Capacity	kW	45.0
	BTU/h	153,500
Input	kW	12.56

PURY-EP400YLM-A1		
Nominal Heating Capacity	kW	50.0
	BTU/h	170,600
Input	kW	13.40



PURY-EP450YLM-A1		
Nominal Cooling Capacity	kW	50.0
	BTU/h	170,600
Input	kW	14.83

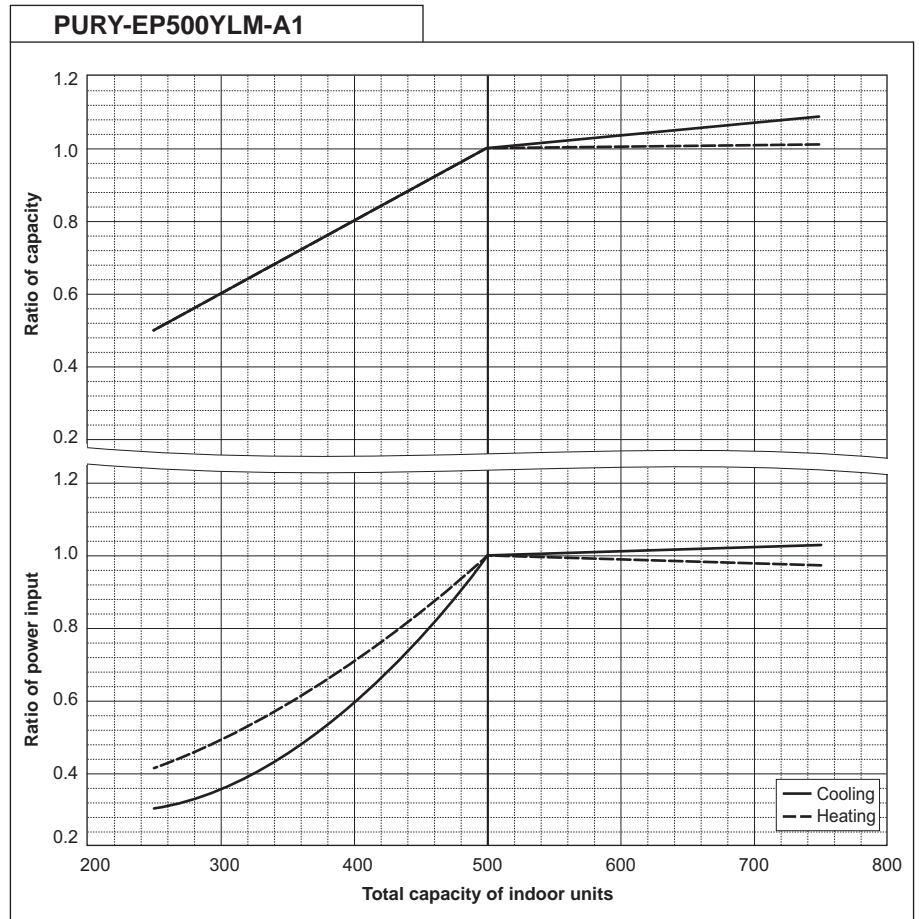
PURY-EP450YLM-A1		
Nominal Heating Capacity	kW	56.0
	BTU/h	191,100
Input	kW	15.86



R2 (HIGH COP)

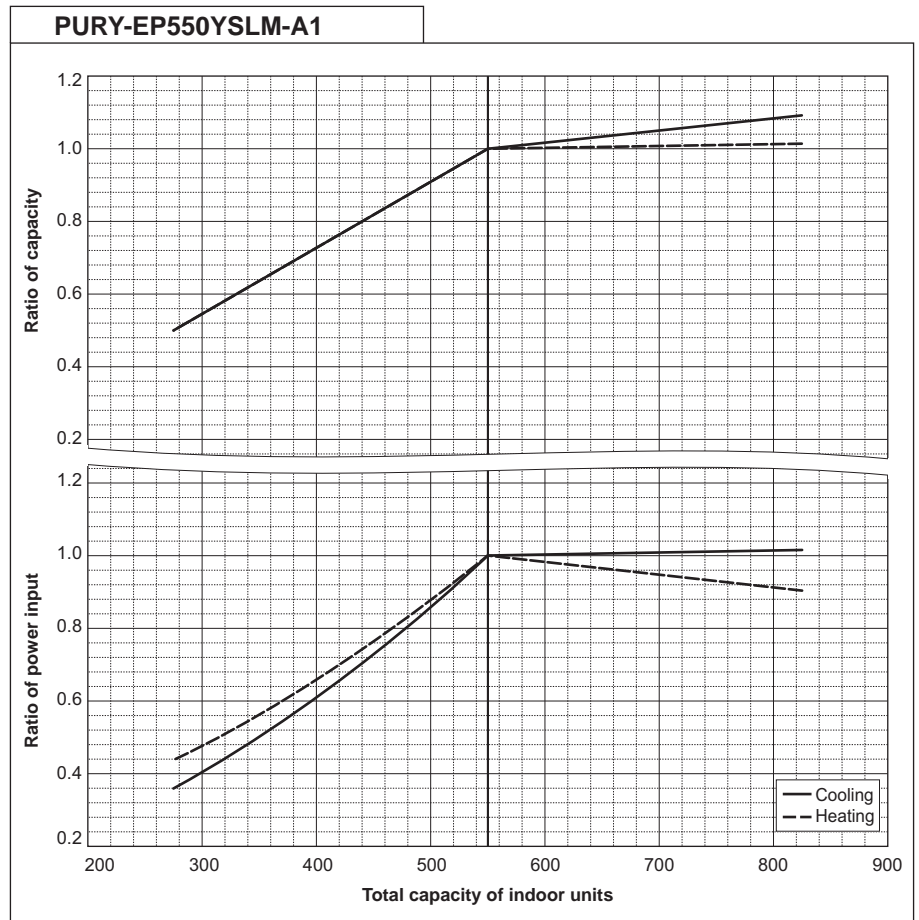
PURY-EP500YLM-A1		
Nominal Cooling Capacity	kW	56.0
	BTU/h	191,100
Input	kW	18.30

PURY-EP500YLM-A1		
Nominal Heating Capacity	kW	63.0
	BTU/h	215,000
Input	kW	19.54



PURY-EP550YSLM-A1		
Nominal Cooling Capacity	kW	63.0
	BTU/h	215,000
Input	kW	17.35

PURY-EP550YSLM-A1		
Nominal Heating Capacity	kW	69.0
	BTU/h	235,400
Input	kW	18.44



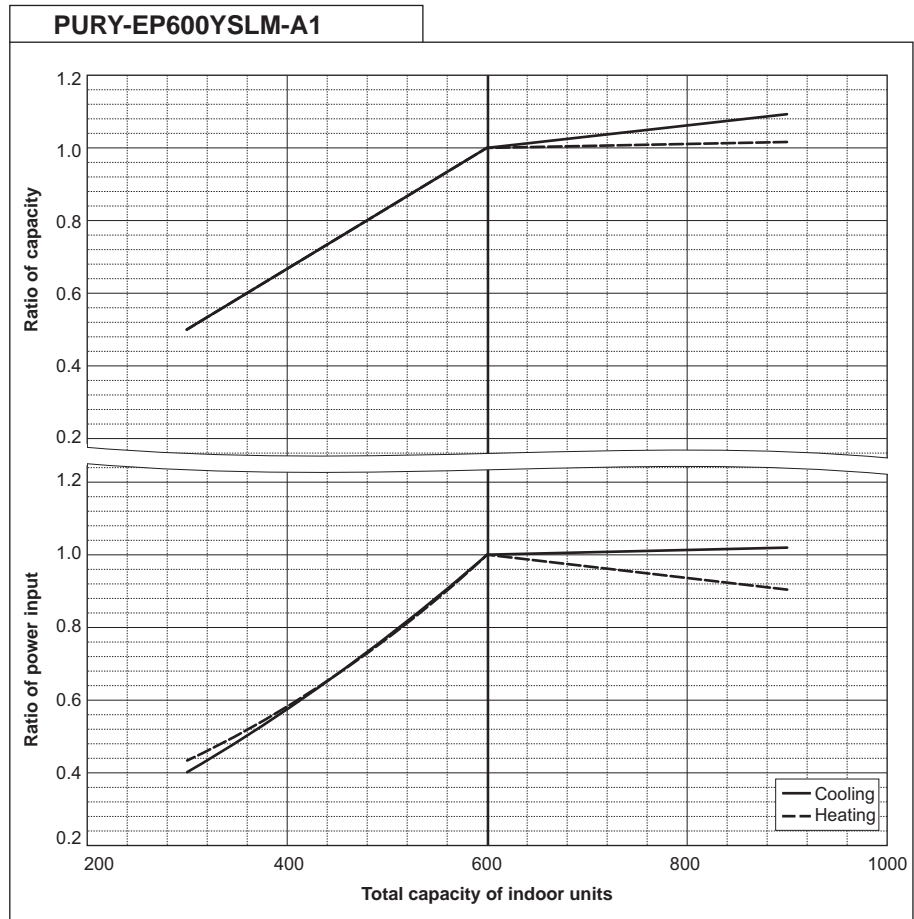
R2 (HIGH COP)

8. CAPACITY TABLES

R2 (HIGH COP)

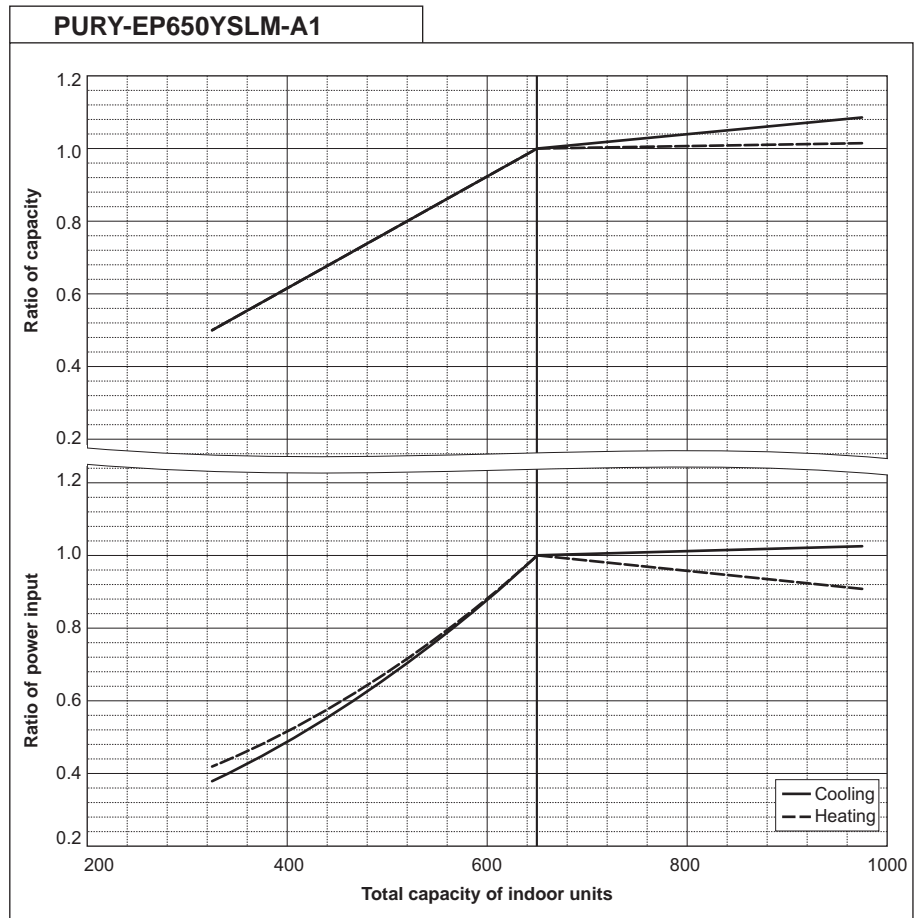
PURY-EP600YSLM-A1		
Nominal Cooling Capacity	kW	69.0
	BTU/h	235,400
Input	kW	19.54

PURY-EP600YSLM-A1		
Nominal Heating Capacity	kW	76.5
	BTU/h	261,000
Input	kW	20.34



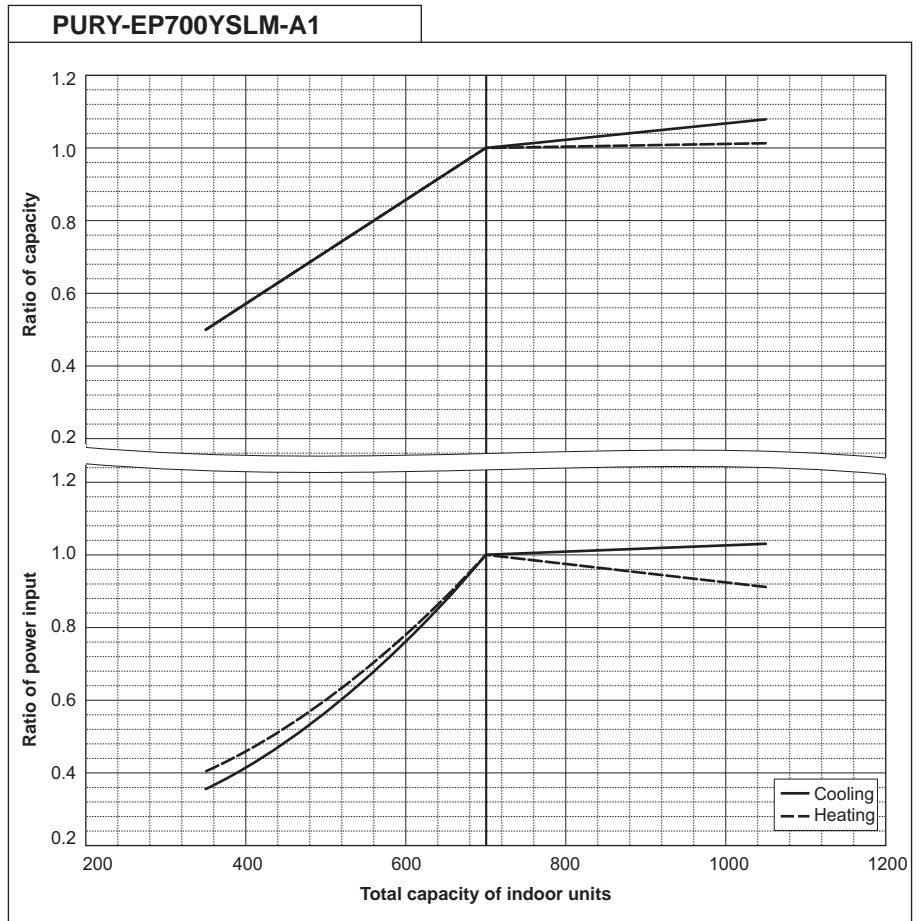
PURY-EP650YSLM-A1		
Nominal Cooling Capacity	kW	73.0
	BTU/h	249,100
Input	kW	22.12

PURY-EP650YSLM-A1		
Nominal Heating Capacity	kW	81.5
	BTU/h	278,100
Input	kW	22.51



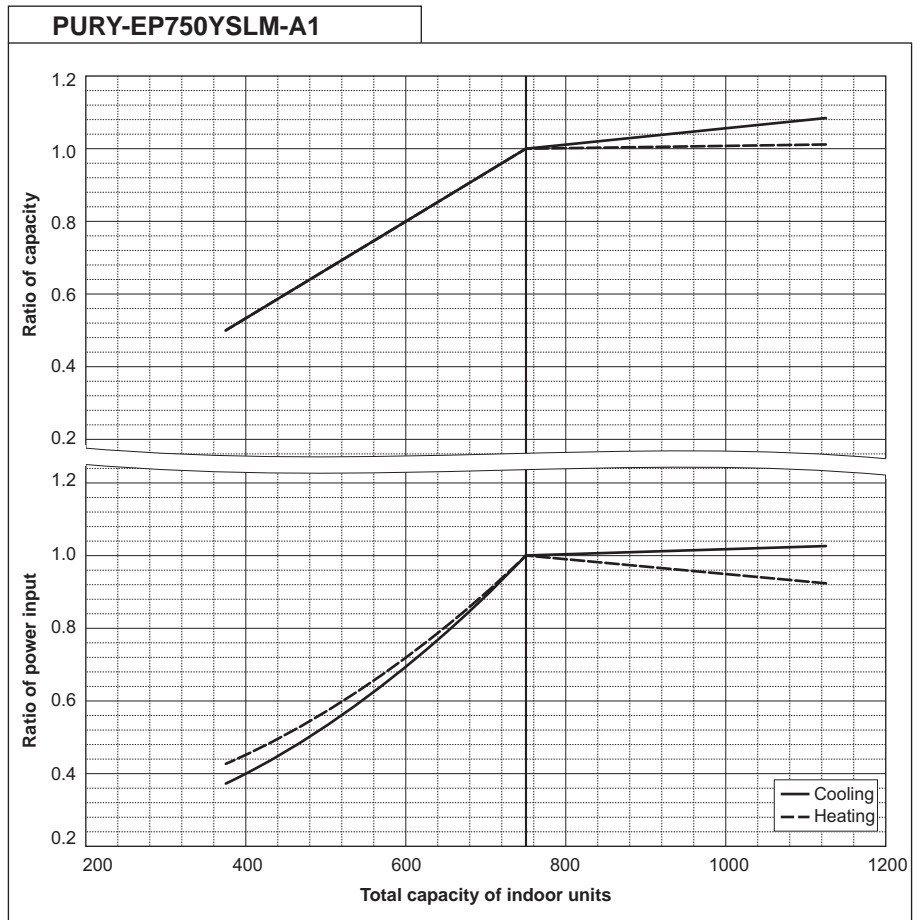
PURY-EP700YSLM-A1		
Nominal Cooling Capacity	kW	80.0
	BTU/h	273,000
Input	kW	25.97

PURY-EP700YSLM-A1		
Nominal Heating Capacity	kW	88.0
	BTU/h	300,300
Input	kW	25.28



PURY-EP750YSLM-A1		
Nominal Cooling Capacity	kW	85.0
	BTU/h	290,000
Input	kW	25.99

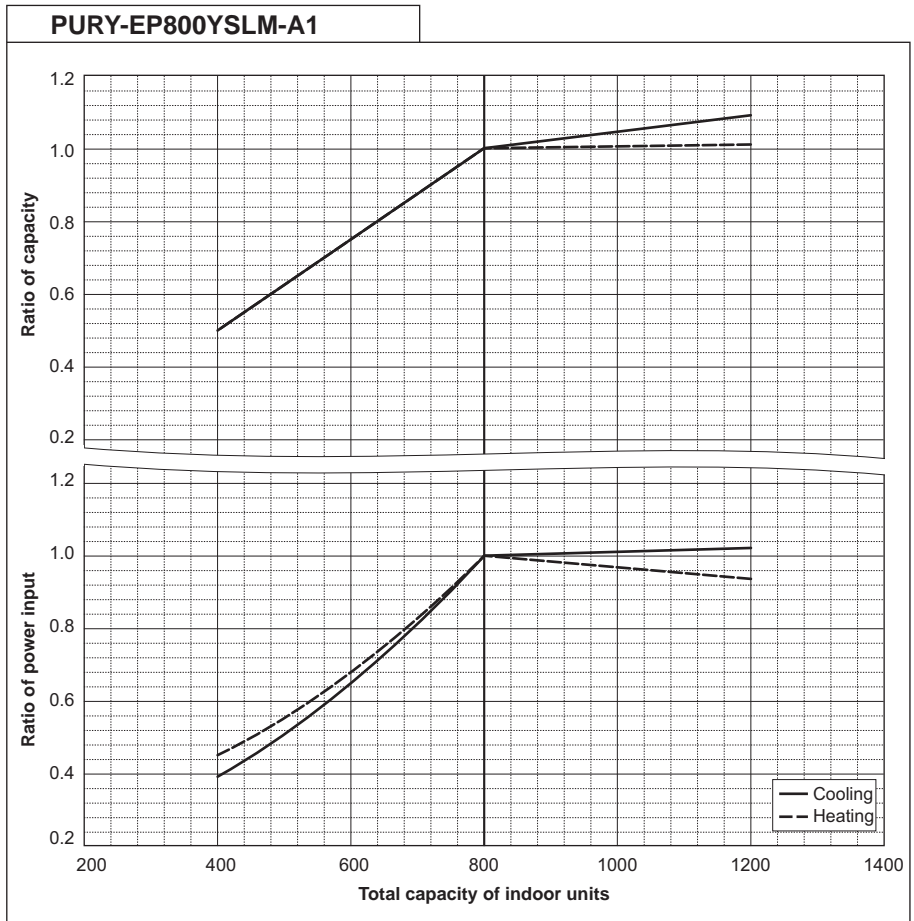
PURY-EP750YSLM-A1		
Nominal Heating Capacity	kW	95.0
	BTU/h	324,100
Input	kW	26.38



R2 (HIGH COP)

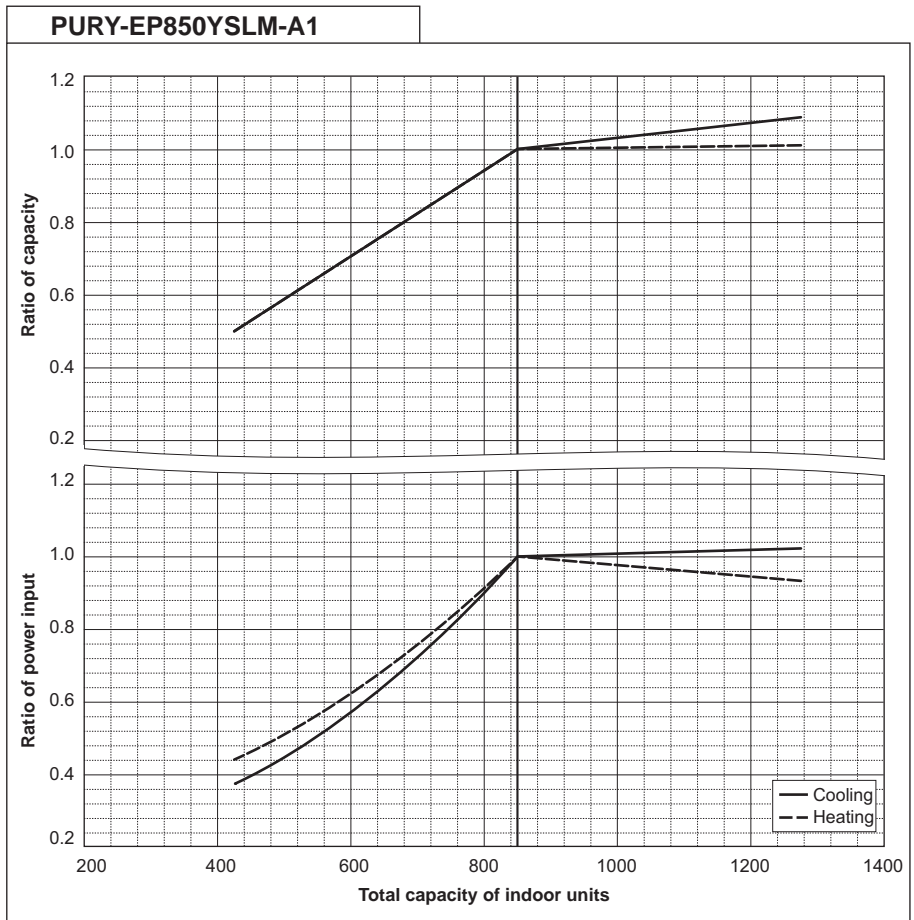
PURY-EP800YSLM-A1		
Nominal Cooling Capacity	kW	90.0
	BTU/h	307,100
Input	kW	25.93

PURY-EP800YSLM-A1		
Nominal Heating Capacity	kW	100.0
	BTU/h	341,200
Input	kW	26.80



PURY-EP850YSLM-A1		
Nominal Cooling Capacity	kW	96.0
	BTU/h	327,600
Input	kW	28.48

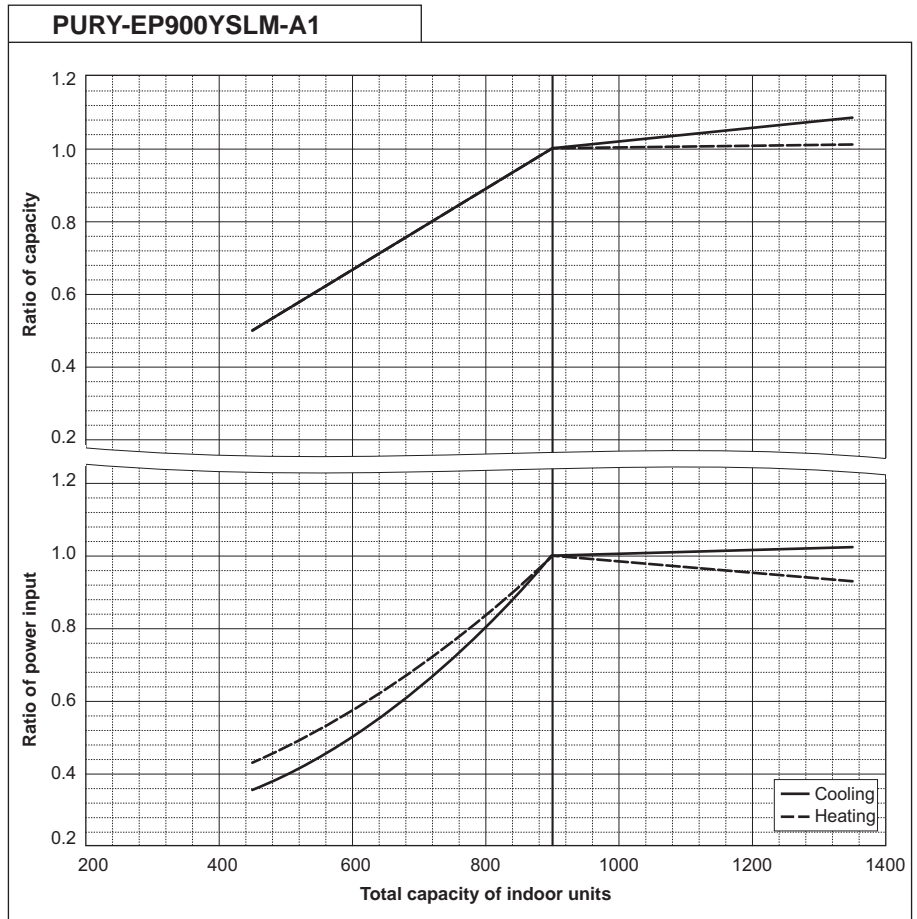
PURY-EP850YSLM-A1		
Nominal Heating Capacity	kW	108.0
	BTU/h	368,500
Input	kW	29.75



R2 (HIGH COP)

PURY-EP900YSLM-A1		
Nominal Cooling Capacity	kW	101.0
	BTU/h	344,600
Input	kW	30.98

PURY-EP900YSLM-A1		
Nominal Heating Capacity	kW	113.0
	BTU/h	385,600
Input	kW	32.01



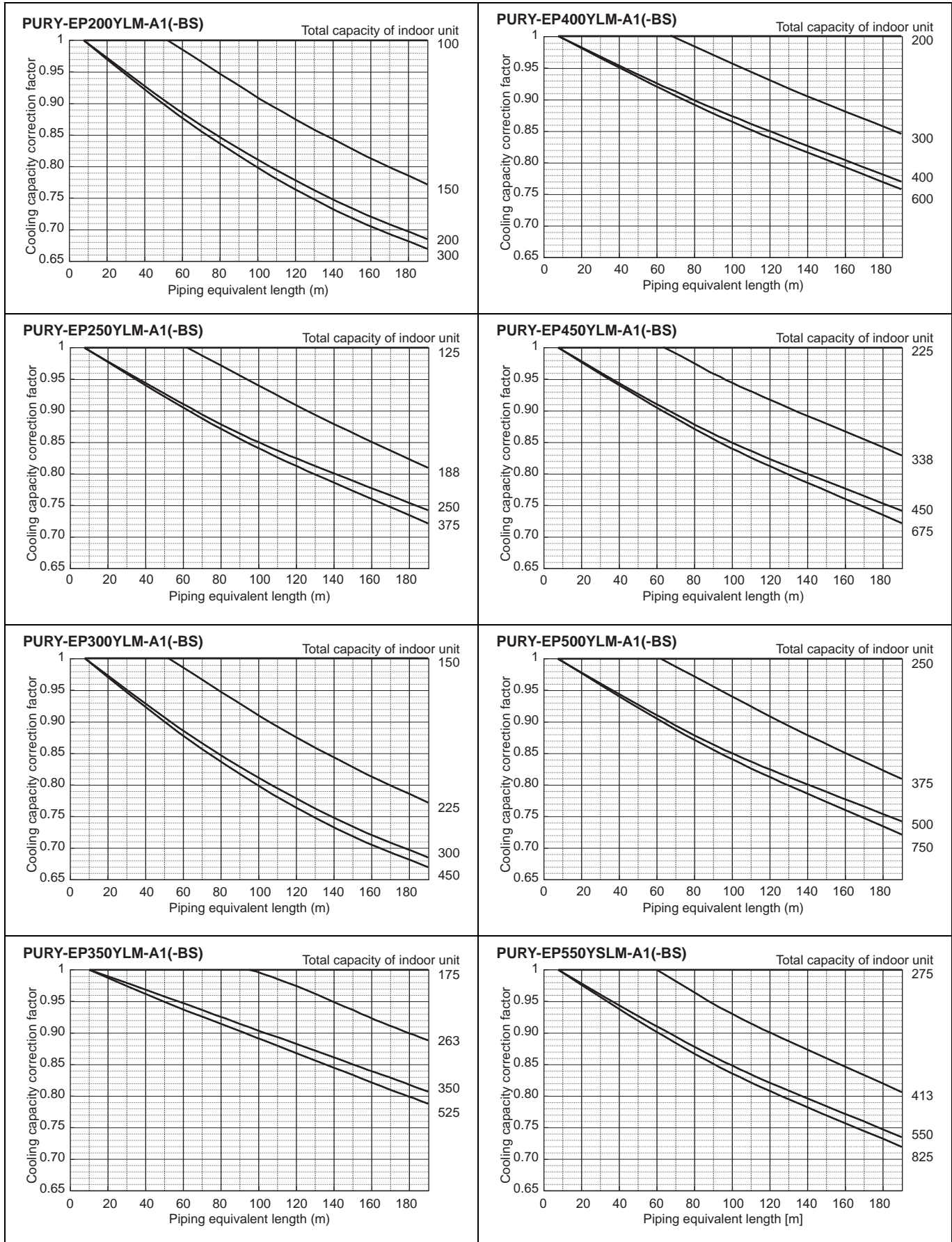
R2 (HIGH COP)

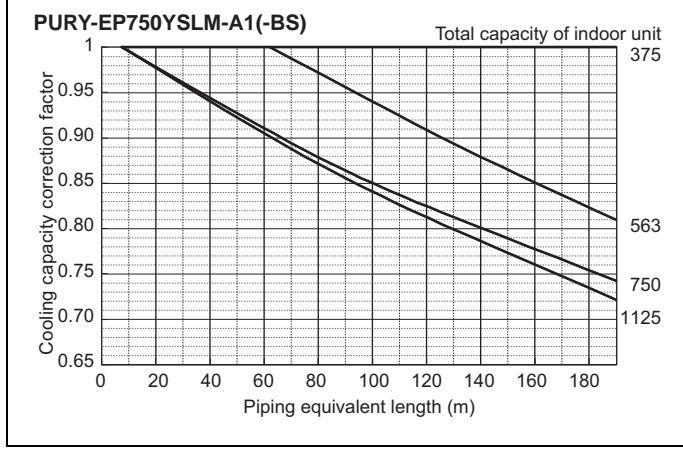
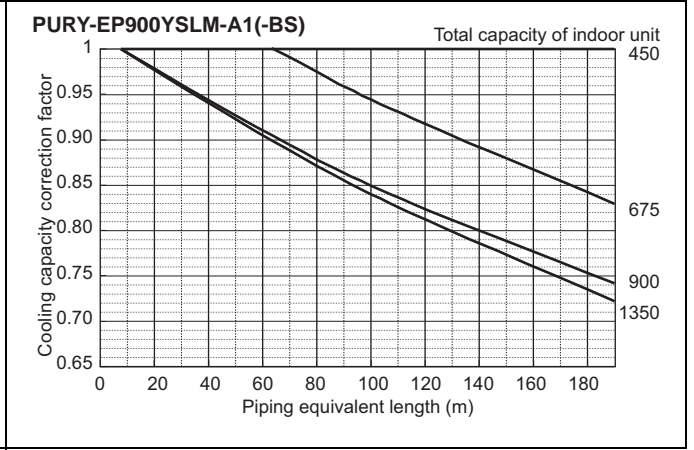
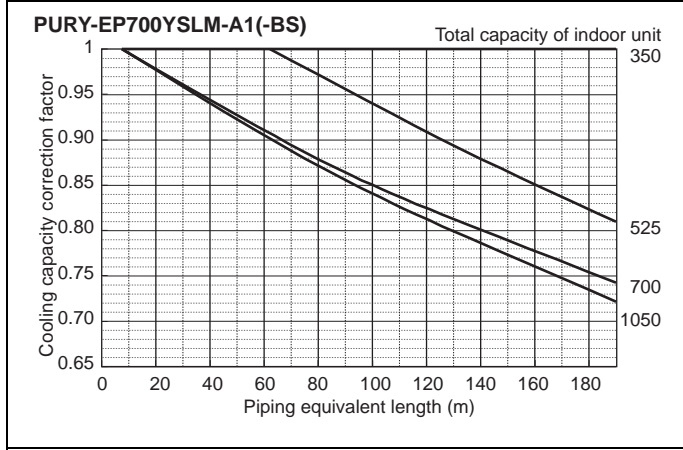
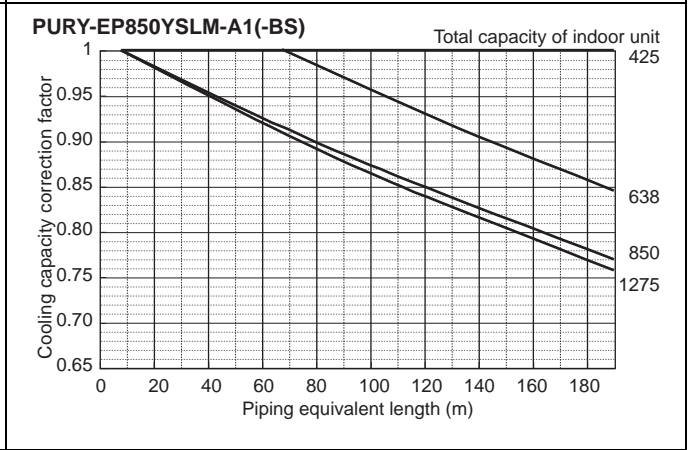
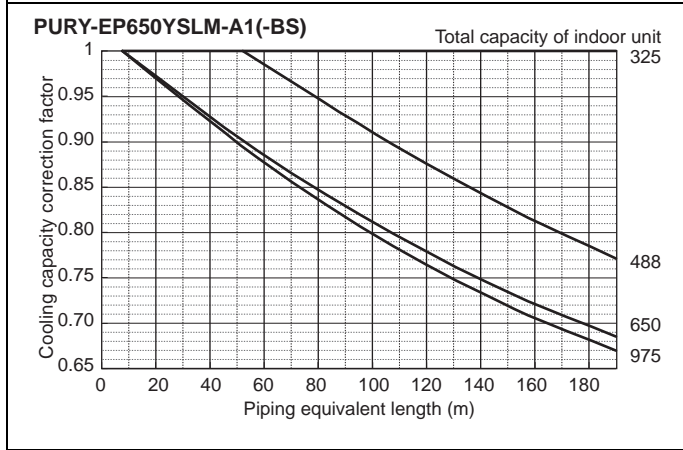
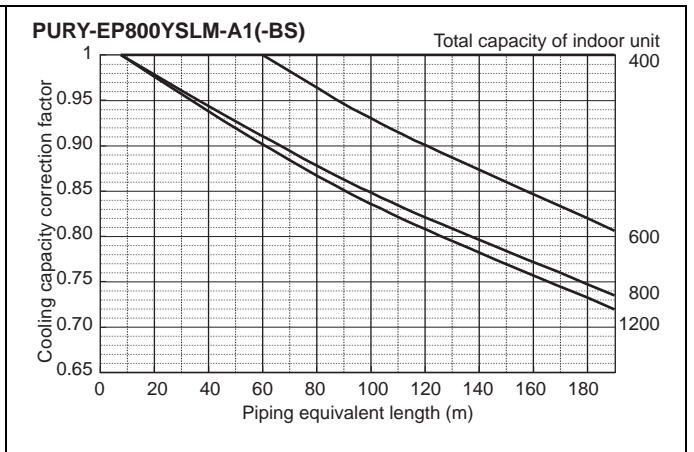
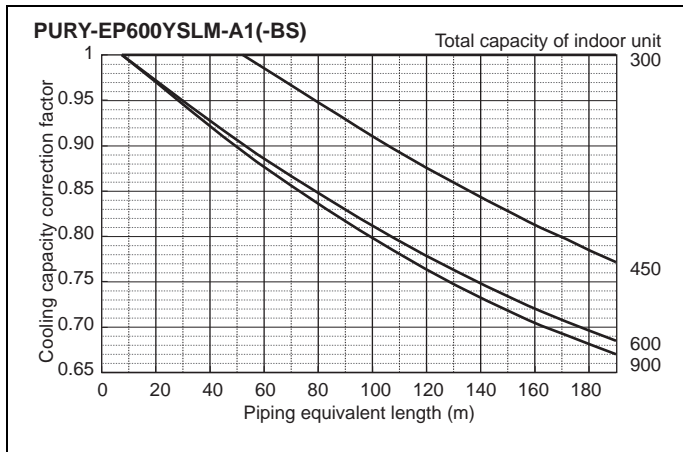
8-4. Correction by refrigerant piping length

CITY MULTI system can extend the piping flexibly within its limitation for the actual situation. However, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 8-4-1 and 8-4-2, the capacity can be observed. 8-4-3 shows how to obtain the equivalent length of piping.

8-4-1. Cooling capacity correction

R2 (HIGH COP)

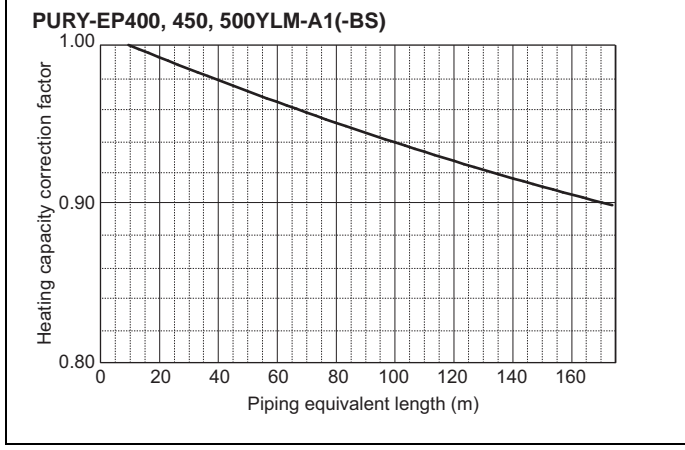
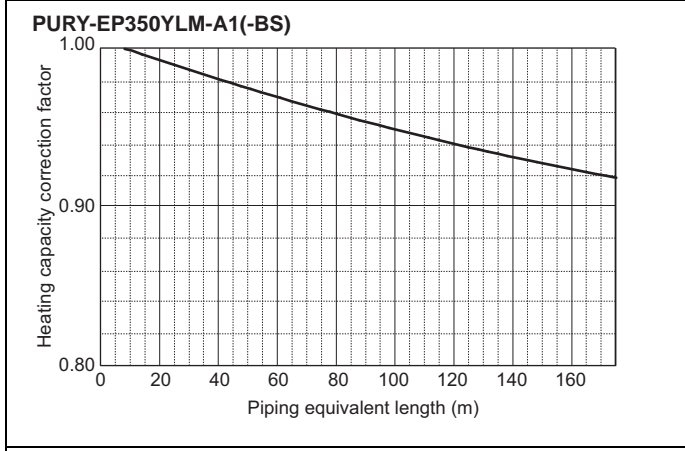
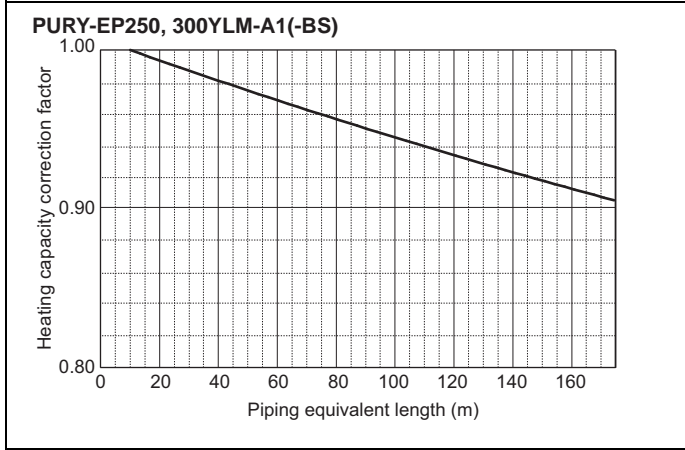
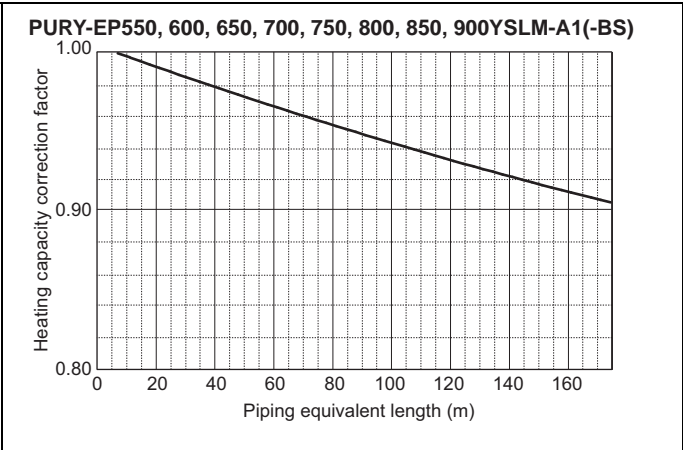
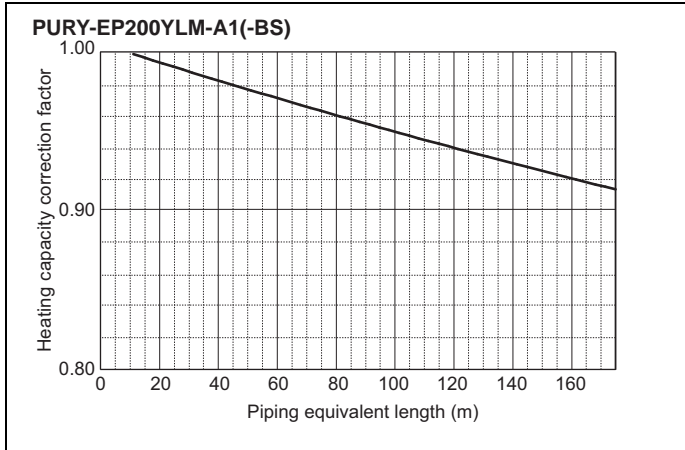




R2 (HIGH COP)

8-4-2. Heating capacity correction

R2 (HIGH COP)



8-4-3. How to obtain the equivalent piping length

- 1 **PURY-EP200YLM-A1(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 × number of bends in the piping) m
- 2 **PURY-EP250, 300YLM-A1(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 × number of bends in the piping) m
- 3 **PURY-EP350YLM-A1(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 × number of bends in the piping) m
- 4 **PURY-EP400, 450, 500YLM-A1(-BS), EP550, 600, 650YSLM-A1(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 × number of bends in the piping) m
- 5 **PURY-EP700YSLM-A1(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 × number of bends in the piping) m
- 6 **PURY-P850, 900YSLM-A1(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.80 × number of bends in the piping) m

8-5. Correction by port counts of the BC controller

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

Indoor unit sizes from P100 to P140 should normally be connected to 2 ports on the BC controller (set BC controller DIP-SW 4-6 to its ON position).

In cases whereby indoor unit sizes from P100 to P140 or total capacity indoor units from P81 to P140 are connected to only 1port on the BC controller (set BC controller DIP-SW 4-6 to its OFF position), the cooling capacity of the indoor unit should be multiplied by a correction factor of **0.97**.

8-6. 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.

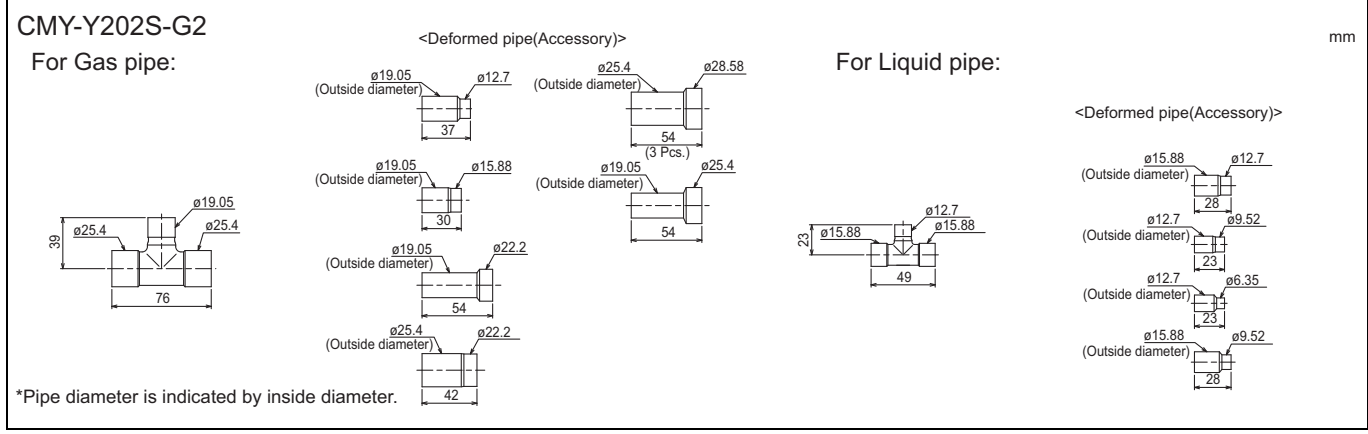
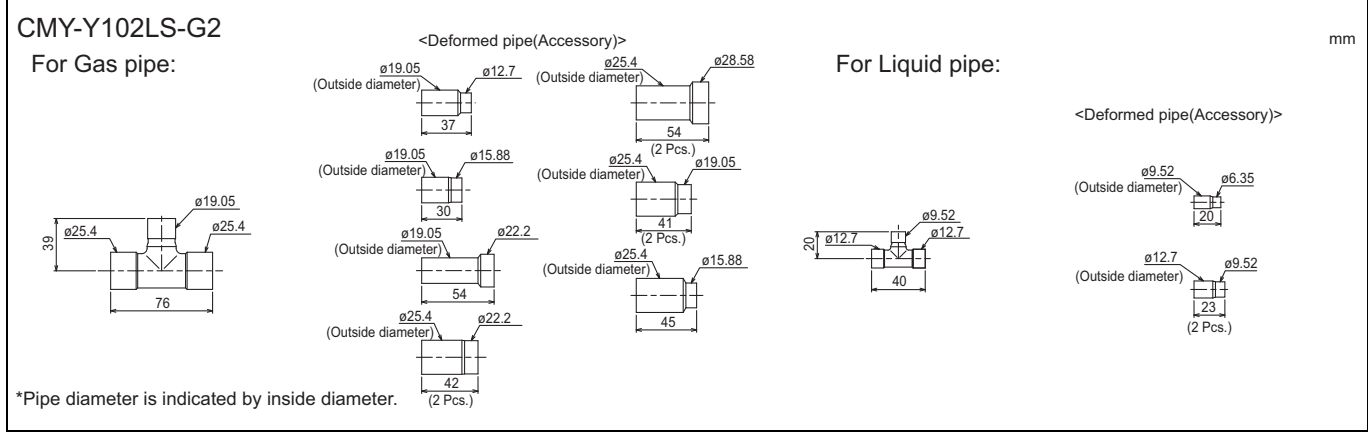
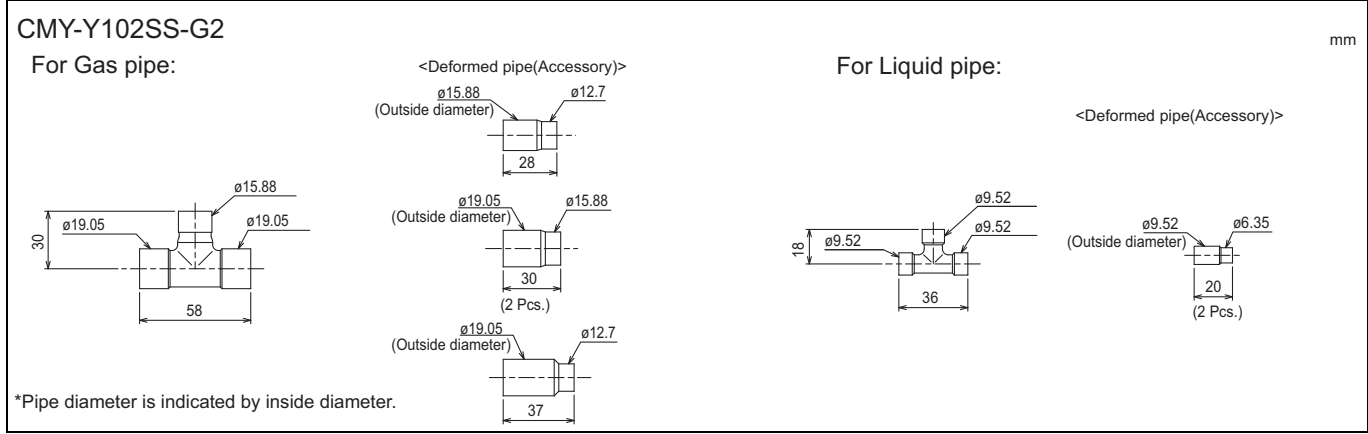
Table of correction factor at frosting and defrosting

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-EP200YLM-A1(-BS)	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PURY-EP250YLM-A1(-BS)	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PURY-EP300YLM-A1(-BS)	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PURY-EP350YLM-A1(-BS)	1.00	0.93	0.85	0.83	0.84	0.86	0.90	0.90	0.95	0.95	0.95
PURY-EP400YLM-A1(-BS)	1.00	0.95	0.90	0.87	0.88	0.89	0.90	0.95	0.95	0.95	0.95
PURY-EP450YLM-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-EP500YLM-A1(-BS)	1.00	0.98	0.89	0.86	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-EP550YSLM-A1(-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PURY-EP600YSLM-A1(-BS)	1.00	0.94	0.84	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PURY-EP650YSLM-A1(-BS)	1.00	0.94	0.84	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PURY-EP700YSLM-A1(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-EP750YSLM-A1(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-EP800YSLM-A1(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-EP850YSLM-A1(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-EP900YSLM-A1(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95

R2 (HIGH COP)

9-1. JOINT

CITY MULTI units can be easily connected by using Joint sets and Header sets provided by Mitsubishi Electric. Three kinds of Joint sets are available for use. Refer to section 3 in "System Design" or the Installation Manual that comes with the Joint set for how to install the Joint set.



R2 (HIGH COP)

9-2. OUTDOOR TWINNING KIT

The following optional Outdoor Twinning Kit is needed to use to combine multiple refrigerant pipes. Refer to the chapter entitled System Design Section for the details of selecting a proper twinning kit.

CMY-ER100VBK-A Low-pressure pipe twinning kit

<Accessory> Fixing screw1
 Pipe cover1
 Cable tie2
 Insulation cover1
 Buffer1

<Elbow pipe(Accessory)>

[High-pressure twinning pipe]

<Pipe for routing through the bottom (Accessory)>

Note 1: Refer to the figure below for the installation position of the twinning pipe.

Twinning pipe on the high-pressure side

Slope of the twinning pipe is at an angle within $\pm 15^\circ$ to the horizontal plane.

2: Pipe diameter is indicated by inside diameter.

CMY-ER200VBK Low-pressure pipe twinning kit

<Accessory> Fixing screw1
 Pipe cover1
 Cable tie2
 Insulation cover1

<Elbow pipe(Accessory)>

<Deformed pipe(Accessory)>

[High-pressure twinning pipe]

<Pipe for routing through the bottom (Accessory)>

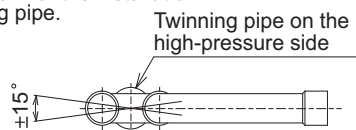
Note 1: Refer to the figure below for the installation position of the twinning pipe.

Twinning pipe on the high-pressure side

Slope of the twinning pipe is at an angle within $\pm 15^\circ$ to the horizontal plane.

2: Pipe diameter is indicated by inside diameter.

Note 1. Refer to the figure below for the installation position of the twinning pipe.



Slope of the twinning pipe is at an angle within $\pm 15^\circ$ to the horizontal plane.

2. Use the attached pipe to braze the port-opening of the distributor.
3. Pipe diameter is indicated by inside diameter.
4. Only use the Twinning pipe by Mitsubishi (optional parts) .

9-3. JOINT KIT CMY-R160-J1 FOR BC CONTROLLER

Joint kit "CMY-R160-J1" for BC controller is used to combine 2 ports of the BC controller at a PURY/PQRY system so as to enable down-stream Indoor capacity above P80 as shown in Fig. 1.

The Joint kit include following items:

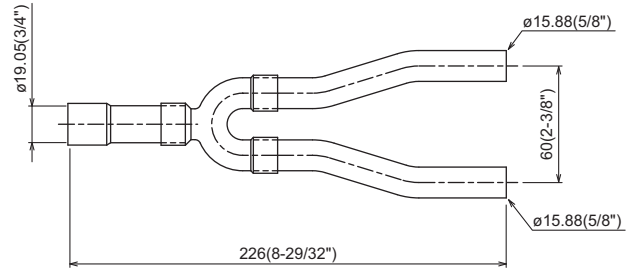
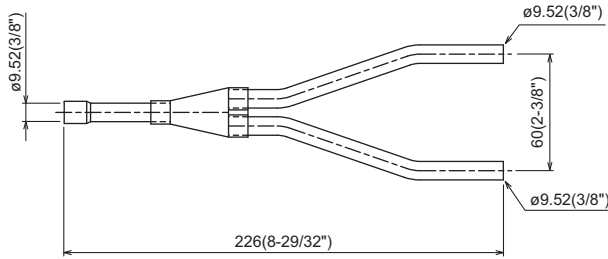
① Instruction	② Joint pipe(Small)	③ Joint pipe(Large)	④ Cover 1	⑤ Cover 2	⑥ Cover 3	⑦ Band	⑧ Reducer 1	⑨ Reducer 2
This sheet 1pc	1pc	1pc	2pcs	1pc for gas side	1pc for liquid side	8pcs	OD19.05-ID22.2 1pc	OD19.05-ID15.88 1pc

Please prepare the following items in the field. ①Tape for insulation material sealing ②Extension pipe for refrigerant circuit

② Joint pipe (for liquid side)

③ Joint pipe (for gas side)

mm (in.)



R2 (HIGH COP)

1. Designing CMY-R160-J1 to a PURY/PQRY system

The maximum down-stream Indoor capacity for 1 port of BC controller is P80. When the down-stream Indoor capacity is above P80, Joint kit CMY-R160-J1 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-J1.

When connecting Indoor units to 1 port of BC controller or 2 combined ports of BC controller using CMY-R160-J1 or CMY-Y102SS-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.

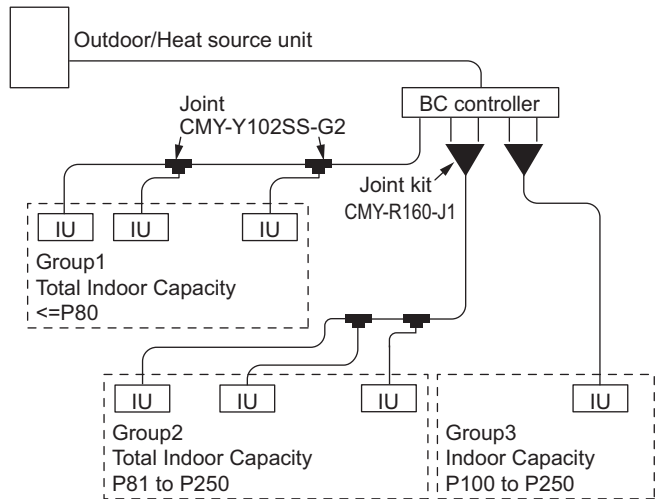


Fig.1. CMY-R160-J1 applying scheme

2. Piping at the installation site

The connection of CMY-R160-J1 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.

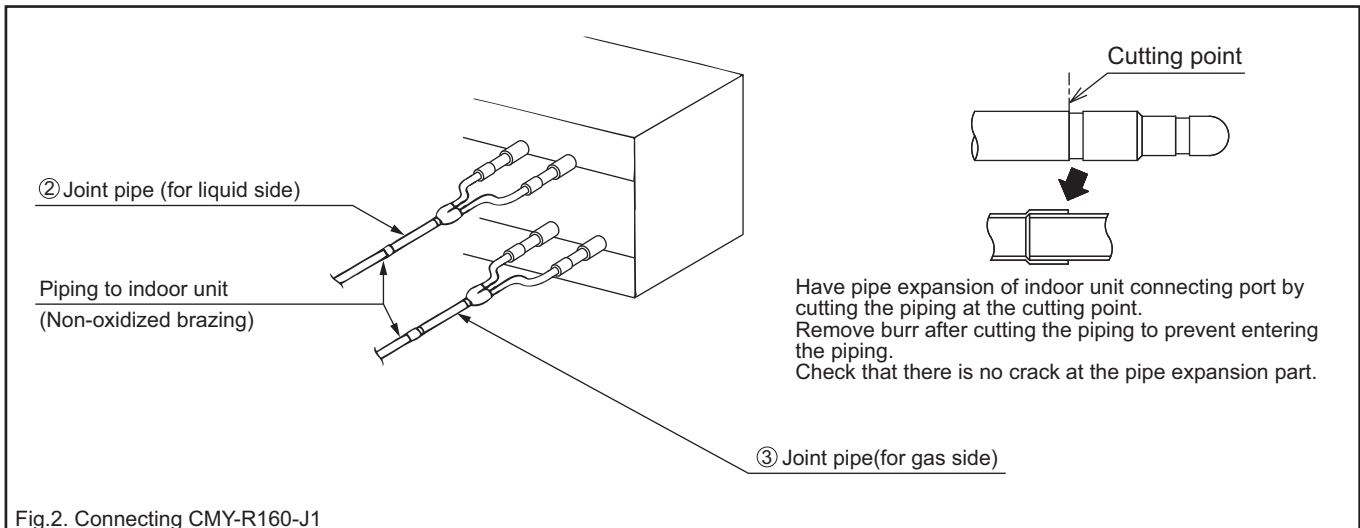
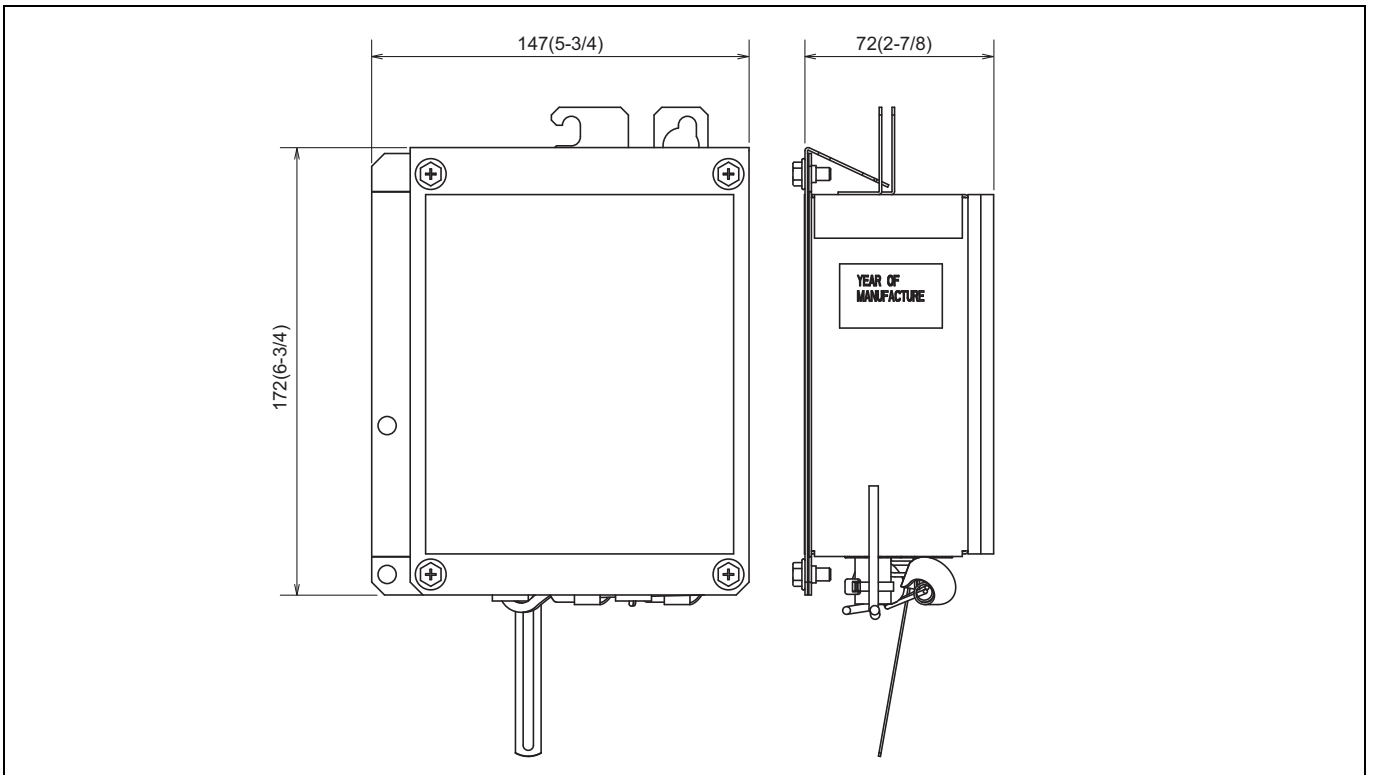


Fig.2. Connecting CMY-R160-J1

9-4. RELAY BOX

If there is a risk that the drain water will freeze inside the outdoor unit, the installation of a base heater is recommended. PAC-BH02KTY-E is a relay box for controlling the electric base heater. For details, refer to the relay box Installation Manual.

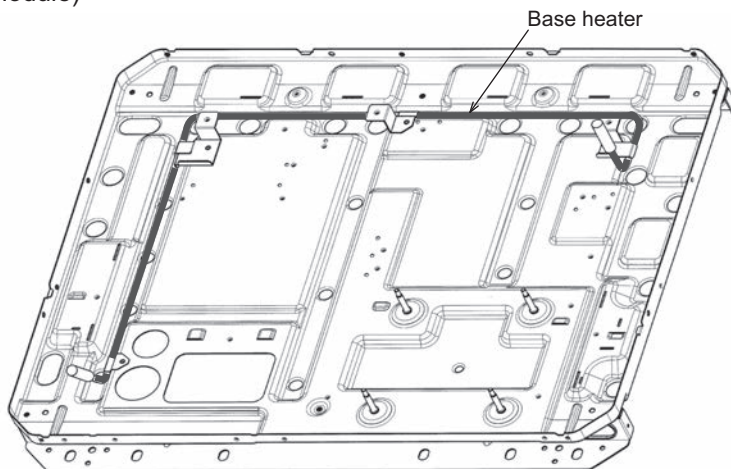


R2 (HIGH COP)

9-5. BASE HEATER

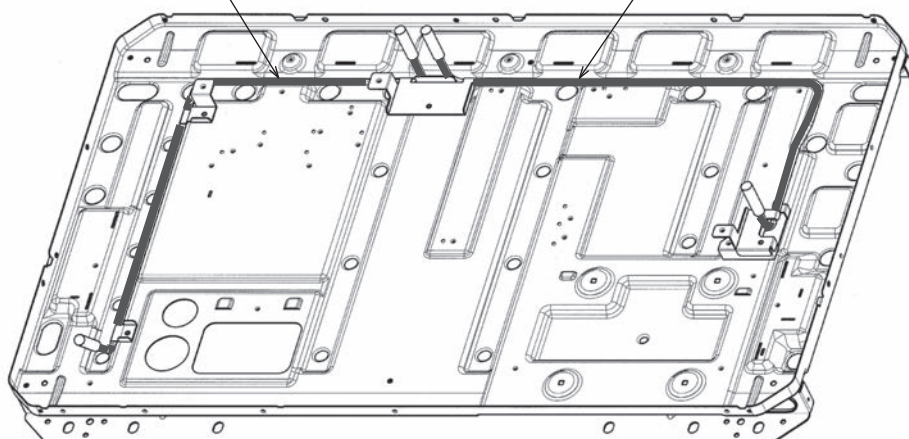
If there is a risk that the drain water will freeze inside the outdoor unit, the installation of a base heater is recommended. For details, refer to the base heater Installation Manual.

PAC-BH04EHT-E (for S module)



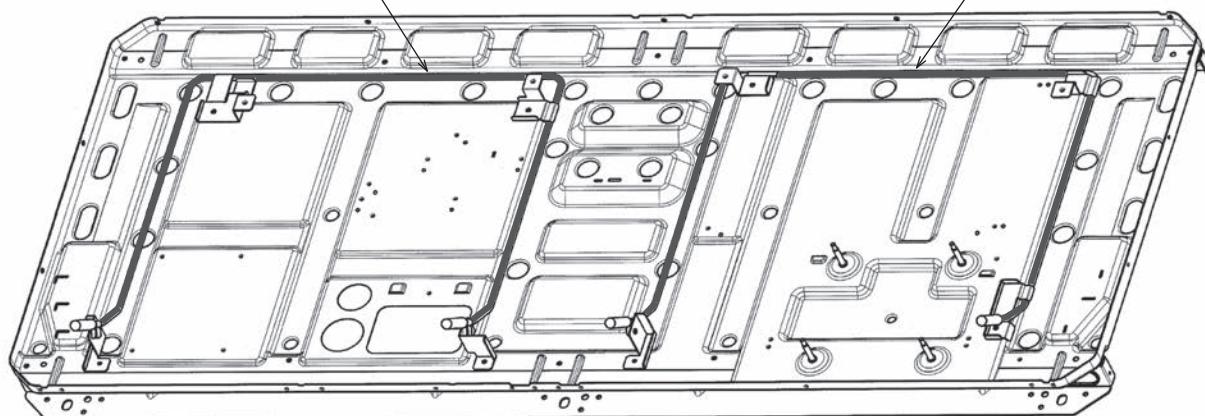
PAC-BH05EHT-E (for L module)

Left base heater (left side of the unit) Right base heater (right side of the unit)



PAC-BH06EHT-E (for XL module)

Left base heater (left side of the unit) Right base heater (right side of the unit)



R2 (HIGH COP)