OUTDOOR UNITS

1. SPECIFICATIONS

Model			PURY-EP200YJM-A(-BS)	PURY-EP250YJM-A(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity *1		kW	22.4	28.0
(Nominal) *1		kcal / h	19,300	24,100
*1		BTU / h	76,400	95,500
	Power input	kW	5.07	6.76
	Current input	A	8.5-8.1-7.8	11.4-10.8-10.4
	EER	kW / kW	4.41	4.14
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
*3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)	-5.0~46.0°C(23~115°F)
Heating capacity *2		kW	25.0	31.5
(Nominal) *2		kcal / h	21,500	27,100
*2		BTU / h	85,300	107,500
	Power input	kW	5.56	7.15
	Current input	A	9.3-8.9-8.5	12.0-11.4-11.0
	COP	kW / kW	4.49	4.40
Temp. range of heating	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
*3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity	50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~20	P15~P250 / 1~25
Sound pressure level (measured in anechoic room)		dB <A>	57	60
Power pressure level (measured in anechoic room)		dB <A>	77	80
Refrigerant	High pressure	mm (in.)	15.88(5/8) Brazed	19.05(3/4) Brazed
piping diameter	Low pressure	mm (in.)	19.05(3/4) Brazed	22.2(7/8) Brazed
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Air flow rate	m^3 / min	185	225
		L/s	3,083	3,750
		cfm	6,532	7,945
	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_2O)	0 Pa (0 mmH_2O)
Compressor	Type x Quantity		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	5.4	6.8
	Case heater	kW	0.035(240 V)	0.045(240 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 HxWxD		mm	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 1,220 x 760
		in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 9.5kg (21lbs)	R410A x 11.8kg (27lbs)
	Control		Indoor LEV and BC controller	Indoor LEV and BC controller
Net weight		kg (lbs)	240(530)	270(596)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	Auto-defrost mode (Reversed refrigerant cycle)
Drawing	External		WKD94G054	WKD94G055
	Wiring		WYN B0-7952	WYN B0-7952
Standard attachment	Document		Installation Manual	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	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.	Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice.

Notes:

1. Nominal cooling conditions (subject to JIS B8615-2)
   Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
2. Nominal heating conditions (subject to JIS B8615-2)
   Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°FWB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
4. External static pressure option is available (30Pa, 60Pa/3.1mmH_2O, 6.1mmH_2O).

Unit converter

kcal/h	=kW x 860
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.

R2(HIGH COP)

1. SPECIFICATIONS

Model			PURY-EP300YJM-A(-BS)	PURY-EP350YJM-A(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity (Nominal)	*1	kW	33.5	40.0
	*1	kcal / h	28,800	34,400
	*1	BTU / h	114,300	136,500
	Power input	kW	8.25	10.28
	Current input	A	13.9-13.2-12.7	17.3-16.4-15.8
	EER	kW / kW	4.06	3.89
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C(59~75°F)	15.0~24.0°C(59~75°F)
*3	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
	*2	kcal / h	32,300	38,700
	*2	BTU / h	128,000	153,500
	Power input	kW	8.60	10.58
	Current input	A	14.5-13.7-13.2	17.8-16.9-16.3
	COP	kW / kW	4.36	4.25
Temp. range of heating	Indoor	D.B.	15.0~27.0°C(59~81°F)	15.0~27.0°C(59~81°F)
*3	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>	60	61
Power pressure level (measured in anechoic room)		dB <A>	80	81
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 2
	Air flow rate	m^3 / min	225	360
		L/s	3,750	6,000
		cfm	7,945	12,712
	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 2
*4	External static press.		0 Pa (0 mmH_2O)	0 Pa (0 mmH_2O)
Compressor	Type x Quantity		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	7.8	9.9
	Case heater	kW	0.045(240 V)	0.045(240 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 HxWxD		mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 x 760
		in.	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
	Control		Indoor LEV and BC controller	Indoor LEV and BC controller
Net weight		kg (lbs)	270(596)	320(706)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	Auto-defrost mode (Reversed refrigerant cycle)
Drawing	External		WKD94G055	WKD94G056
	Wiring		WYN B0-7952	WYN B0-7952
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.	Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice.

Notes:

1. Nominal cooling conditions (subject to JIS B8615-2)
   Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
2. Nominal heating conditions (subject to JIS B8615-2)
   Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°FWB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
4. External static pressure option is available (30Pa, 60Pa/3.1mmH_2O, 6.1mmH_2O).

Unit converter

kcal/h =kW x 860
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.

R2(HIGH COP)

1. SPECIFICATIONS

Model			PURY-EP400YSJM-A(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity *1		kW	45.0
(Nominal) *1		kcal / h	38,700
*1		BTU / h	153,500
	Power input	kW	10.41
	Current input	A	17.5-16.6-16.0
	EER	kW / kW	4.32
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C(59~75°F)
*3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)
Heating capacity *2		kW	50.0
(Nominal) *2		kcal / h	43,000
*2		BTU / h	170,600
	Power input	kW	11.36
	Current input	A	19.1-18.2-17.5
	COP	kW / kW	4.40
Temp. range of heating	Indoor	D.B.	15.0~27.0°C(59~81°F)
*3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~40
Sound pressure level (measured in anechoic room)		dB <A>	60
Power pressure level (measured in anechoic room)		dB <A>	80
Refrigerant	High pressure	mm (in.)	22.2(7/8) Brazed
piping diameter	Low pressure	mm (in.)	28.58(1-1/8) Brazed

Set Model

Model			PURY-EP200YJM-A(-BS)	PURY-EP200YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 1	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	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_2O)	0 Pa (0 mmH_2O)
Compressor	Type x Quantity		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	5.4	5.4
	Case heater	kW	0.035(240 V)	0.035(240 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 HxWxD		mm	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 920 x 760
		in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16	67-3/8(65 without legs) x 36-1/4 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	240(530)	240(530)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and	High pressure	mm (in.)	15.88(5/8) Brazed	15.88(5/8) Brazed
distributor	Low pressure	mm (in.)	19.05(3/4) Brazed	-
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External		WKD94G057	
	Wiring		WYN B0-7953	WYN B0-7953
Standard attachment	Document		Installation Manual	
	Accessory			
Optional parts			Outdoor Twinning kit: CMY-R100VBK(2) 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. Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s. The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.	

Notes:

1. Nominal cooling conditions (subject to JIS B8615-2)
   Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
2. Nominal heating conditions (subject to JIS B8615-2)
   Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°FWB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
4. External static pressure option is available (30Pa, 60Pa/3.1mmH_2O, 6.1mmH_2O).

Unit converter

kcal/h	=kW x 860
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.

R2(HIGH COP)

Model			PURY-EP450YSJM-A(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity	*1	kW	50.0
(Nominal)	*1	kcal / h	43,000
	*1	BTU / h	170,600
	Power input	kW	11.99
	Current input	A	20.2-19.2-18.5
	EER	kW / kW	4.17
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C(59~75°F)
*3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	56.0
(Nominal)	*2	kcal / h	48,200
	*2	BTU / h	191,100
	Power input	kW	12.87
	Current input	A	21.7-20.6-19.8
	COP	kW / kW	4.35
Temp. range of heating	Indoor	D.B.	15.0~27.0°C(59~81°F)
*3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~45
Sound pressure level (measured in anechoic room)		dB <A>	62
Power pressure level (measured in anechoic room)		dB <A>	82
Refrigerant	High pressure	mm (in.)	22.2(7/8) Brazed
piping diameter	Low pressure	mm (in.)	28.58(1-1/8) Brazed

Set Model

Model			PURY-EP200YJM-A(-BS)	PURY-EP250YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Air flow rate	m^3 / min	185	225
		L/s	3,083	3,750
		cfm	6,532	7,945
	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_2O)	0 Pa (0 mmH_2O)
Compressor	Type x Quantity		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	5.4	6.8
	Case heater	kW	0.035(240 V)	0.045(240 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 HxWxD		mm	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 1,220 x 760
		in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 9.5kg (21lbs)	R410A x 11.8kg (27lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	240(530)	270(596)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and	High pressure	mm (in.)	15.88(5/8) Brazed	19.05(3/4) Brazed
distributor	Low pressure	mm (in.)	19.05(3/4) Brazed	-
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External		WKD94G058	
	Wiring		WYN B0-7953	WYN B0-7953
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Outdoor Twinning kit: CMY-R100VBK(2) 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. Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s. The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.	

Notes:

1. Nominal cooling conditions (subject to JIS B8615-2)
   Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
2. Nominal heating conditions (subject to JIS B8615-2)
   Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°FWB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
4. External static pressure option is available (30Pa, 60Pa/3.1mmH_2O, 6.1mmH_2O).

Unit converter

kcal/h =kW x 860
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.

R2(HIGH COP)

1. SPECIFICATIONS

Model			PURY-EP500YSJM-A(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity *1		kW	56.0
(Nominal) *1		kcal / h	48,200
*1		BTU / h	191,100
	Power input	kW	13.62
	Current input	A	22.9-21.8-21.0
	EER	kW / kW	4.11
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C(59~75°F)
*3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)
Heating capacity *2		kW	63.0
(Nominal) *2		kcal / h	54,200
*2		BTU / h	215,000
	Power input	kW	14.38
	Current input	A	24.2-23.0-22.2
	COP	kW / kW	4.38
Temp. range of heating	Indoor	D.B.	15.0~27.0°C(59~81°F)
*3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~50
Sound pressure level (measured in anechoic room)		dB <A>	62
Power pressure level (measured in anechoic room)		dB <A>	82
Refrigerant	High pressure	mm (in.)	22.2(7/8) Brazed
piping diameter	Low pressure	mm (in.)	28.58(1-1/8) Brazed

Set Model

Model			PURY-EP200YJM-A(-BS)	PURY-EP300YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Air flow rate	m^3 / min	185	225
		L/s	3,083	3,750
		cfm	6,532	7,945
	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_2O)	0 Pa (0 mmH_2O)
Compressor	Type x Quantity		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	5.4	7.8
	Case heater	kW	0.035(240 V)	0.045(240 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 HxWxD		mm	1,710(1,650 without legs) x 920 x 760	1,710(1,650 without legs) x 1,220 x 760
		in.	67-3/8(65 without legs) x 36-1/4 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 9.5kg (21lbs)	R410A x 11.8kg (27lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	240(530)	270(596)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and	High pressure	mm (in.)	15.88(5/8) Brazed	19.05(3/4) Brazed
distributor	Low pressure	mm (in.)	19.05(3/4) Brazed	-
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External		WKD94G058	
	Wiring		WYN B0-7953	WYN B0-7953
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Outdoor Twinning kit: CMY-R100VBK(2) 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. Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s. The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.	

Notes:

1. Nominal cooling conditions (subject to JIS B8615-2)
   Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
2. Nominal heating conditions (subject to JIS B8615-2)
   Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°FWB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
4. External static pressure option is available (30Pa, 60Pa/3.1mmH_2O, 6.1mmH_2O).

Unit converter

kcal/h	=kW x 860
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.

R2(HIGH COP)

1. SPECIFICATIONS

Model			PURY-EP500YSJM-A1(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity	*1	kW	56.0
(Nominal)	*1	kcal / h	48,200
	*1	BTU / h	191,100
	Power input	kW	13.96
	Current input	A	23.5-22.3-21.5
	EER	kW / kW	4.01
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C(59~75°F)
*3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	63.0
(Nominal)	*2	kcal / h	54,200
	*2	BTU / h	215,000
	Power input	kW	14.78
	Current input	A	24.9-23.7-22.8
	COP	kW / kW	4.26
Temp. range of heating	Indoor	D.B.	15.0~27.0°C(59~81°F)
*3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 1~50
Sound pressure level (measured in anechoic room)		dB <A>	63
Power pressure level (measured in anechoic room)		dB <A>	83
Refrigerant	High pressure	mm (in.)	22.2(7/8) Brazed
piping diameter	Low pressure	mm (in.)	28.58(1-1/8) Brazed

Set Model

Model			PURY-EP250YJM-A(-BS)	PURY-EP250YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Air flow rate	m^3 / min	225	225
		L/s	3,750	3,750
		cfm	7,945	7,945
	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_2O)	0 Pa (0 mmH_2O)
Compressor	Type x Quantity		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	6.8	6.8
	Case heater	kW	0.045(240 V)	0.045(240 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 HxWxD		mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760
		in.	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	270(596)	270(596)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and	High pressure	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed
distributor	Low pressure	mm (in.)	22.2(7/8) Brazed	-
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External		WKD94G059	
	Wiring		WYN B0-7953	WYN B0-7953
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Outdoor Twinning kit: CMY-R100VBK(2) 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. Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s. The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.	

Notes:

1. Nominal cooling conditions (subject to JIS B8615-2)
   Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
2. Nominal heating conditions (subject to JIS B8615-2)
   Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°FWB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
4. External static pressure option is available (30Pa, 60Pa/3.1mmH_2O, 6.1mmH_2O).

Unit converter

kcal/h =kW x 860
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.

R2(HIGH COP)

1. SPECIFICATIONS

Model			PURY-EP550YSJM-A(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity *1		kW	63.0
(Nominal) *1		kcal / h	54,200
*1		BTU / h	215,000
	Power input	kW	15.40
	Current input	A	25.9-24.6-23.8
	EER	kW / kW	4.09
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C(59~75°F)
*3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)
Heating capacity *2		kW	69.0
(Nominal) *2		kcal / h	59,300
*2		BTU / h	235,400
	Power input	kW	15.93
	Current input	A	26.8-25.5-24.6
	COP	kW / kW	4.33
Temp. range of heating	Indoor	D.B.	15.0~27.0°C(59~81°F)
*3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 2~50
Sound pressure level (measured in anechoic room)		dB <A>	63
Power pressure level (measured in anechoic room)		dB <A>	83
Refrigerant	High pressure	mm (in.)	28.58(1-1/8) Brazed
piping diameter	Low pressure	mm (in.)	28.58(1-1/8) Brazed

Set Model

Model			PURY-EP250YJM-A(-BS)	PURY-EP300YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Air flow rate	m^3 / min	225	225
		L/s	3,750	3,750
		cfm	7,945	7,945
	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_2O)	0 Pa (0 mmH_2O)
Compressor	Type x Quantity		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	6.8	7.8
	Case heater	kW	0.045(240 V)	0.045(240 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 HxWxD		mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760
		in.	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	270(596)	270(596)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and	High pressure	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed
distributor	Low pressure	mm (in.)	22.2(7/8) Brazed	-
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External		WKD94G059	
	Wiring		WYN B0-7953	WYN B0-7953
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Outdoor Twinning kit: CMY-R100VBK(2) 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. Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s. The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.	

Notes:

1. Nominal cooling conditions (subject to JIS B8615-2)
   Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
2. Nominal heating conditions (subject to JIS B8615-2)
   Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°FWB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
4. External static pressure option is available (30Pa, 60Pa/3.1mmH_2O, 6.1mmH_2O).

Unit converter

kcal/h	=kW x 860
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.

R2(HIGH COP)

1. SPECIFICATIONS

Model			PURY-EP600YSJM-A(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity	*1	kW	69.0
(Nominal)	*1	kcal / h	59,300
	*1	BTU / h	235,400
	Power input	kW	16.87
	Current input	A	28.4-27.0-26.0
	EER	kW / kW	4.09
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C(59~75°F)
*3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)
Heating capacity	*2	kW	76.5
(Nominal)	*2	kcal / h	65,800
	*2	BTU / h	261,000
	Power input	kW	17.38
	Current input	A	29.3-27.8-26.8
	COP	kW / kW	4.40
Temp. range of heating	Indoor	D.B.	15.0~27.0°C(59~81°F)
*3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 2~50
Sound pressure level (measured in anechoic room)		dB <A>	63
Power pressure level (measured in anechoic room)		dB <A>	83
Refrigerant	High pressure	mm (in.)	28.58(1-1/8) Brazed
piping diameter	Low pressure	mm (in.)	28.58(1-1/8) Brazed

Set Model

Model			PURY-EP300YJM-A(-BS)	PURY-EP300YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1
	Air flow rate	m^3 / min	225	225
		L/s	3,750	3,750
		cfm	7,945	7,945
	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_2O)	0 Pa (0 mmH_2O)
Compressor	Type x Quantity		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	7.8	7.8
	Case heater	kW	0.045(240 V)	0.045(240 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 HxWxD		mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,220 x 760
		in.	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 48-1/16 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	270(596)	270(596)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and	High pressure	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed
distributor	Low pressure	mm (in.)	22.2(7/8) Brazed	-
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External		WKD94G059	
	Wiring		WYN B0-7953	WYN B0-7953
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Outdoor Twinning kit: CMY-R100VBK(2) 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. Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s. The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.	

Notes:

1. Nominal cooling conditions (subject to JIS B8615-2)
   Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
2. Nominal heating conditions (subject to JIS B8615-2)
   Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°FWB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
4. External static pressure option is available (30Pa, 60Pa/3.1mmH_2O, 6.1mmH_2O).

Unit converter

kcal/h	=kW x 860
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.

R2(HIGH COP)

1. SPECIFICATIONS

Model			PURY-EP600YSJM-A1(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity *1		kW	69.0
(Nominal) *1		kcal / h	59,300
*1		BTU / h	235,400
	Power input	kW	17.82
	Current input	A	30.0-28.5-27.5
	EER	kW / kW	3.87
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C(59~75°F)
*3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)
Heating capacity *2		kW	76.5
(Nominal) *2		kcal / h	65,800
*2		BTU / h	261,000
	Power input	kW	18.30
	Current input	A	30.8-29.3-28.2
	COP	kW / kW	4.18
Temp. range of heating	Indoor	D.B.	15.0~27.0°C(59~81°F)
*3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 2~50
Sound pressure level (measured in anechoic room)		dB <A>	63.5
Power pressure level (measured in anechoic room)		dB <A>	83.5
Refrigerant	High pressure	mm (in.)	28.58(1-1/8) Brazed
piping diameter	Low pressure	mm (in.)	28.58(1-1/8) Brazed

Set Model

Model			PURY-EP250YJM-A(-BS)	PURY-EP350YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2
	Air flow rate	m^3 / min	225	360
		L/s	3,750	6,000
		cfm	7,945	12,712
	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 2
*4	External static press.		0 Pa (0 mmH_2O)	0 Pa (0 mmH_2O)
Compressor	Type x Quantity		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	6.8	9.9
	Case heater	kW	0.045(240 V)	0.045(240 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 HxWxD		mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 x 760
		in.	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	270(596)	320(706)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and	High pressure	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed
distributor	Low pressure	mm (in.)	22.2(7/8) Brazed	-
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External		WKD94G060	
	Wiring		WYN B0-7953	WYN B0-7953
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Outdoor Twinning kit: CMY-R100XLVBK 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. Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s. The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.	

Notes:

1. Nominal cooling conditions (subject to JIS B8615-2)
   Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
2. Nominal heating conditions (subject to JIS B8615-2)
   Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°FWB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
4. External static pressure option is available (30Pa, 60Pa/3.1mmH_2O, 6.1mmH_2O).

Unit converter

kcal/h	=kW x 860
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.

R2(HIGH COP)

1. SPECIFICATIONS

Model			PURY-EP650YSJM-A(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity *1		kW	73.0
(Nominal) *1		kcal / h	62,800
*1		BTU / h	249,100
	Power input	kW	19.01
	Current input	A	32.0-30.4-29.3
	EER	kW / kW	3.84
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C(59~75°F)
*3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)
Heating capacity *2		kW	81.5
(Nominal) *2		kcal / h	70,100
*2		BTU / h	278,100
	Power input	kW	19.73
	Current input	A	33.3-31.6-30.4
	COP	kW / kW	4.13
Temp. range of heating	Indoor	D.B.	15.0~27.0°C(59~81°F)
*3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 2~50
Sound pressure level (measured in anechoic room)		dB <A>	63.5
Power pressure level (measured in anechoic room)		dB <A>	83.5
Refrigerant	High pressure	mm (in.)	28.58(1-1/8) Brazed
piping diameter	Low pressure	mm (in.)	28.58(1-1/8) Brazed

Set Model

Model			PURY-EP300YJM-A(-BS)	PURY-EP350YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2
	Air flow rate	m^3 / min	225	360
		L/s	3,750	6,000
		cfm	7,945	12,712
	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 2
*4	External static press.		0 Pa (0 mmH_2O)	0 Pa (0 mmH_2O)
Compressor	Type x Quantity		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	7.8	9.9
	Case heater	kW	0.045(240 V)	0.045(240 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 HxWxD		mm	1,710(1,650 without legs) x 1,220 x 760	1,710(1,650 without legs) x 1,750 x 760
		in.	67-3/8(65 without legs) x 48-1/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	270(596)	320(706)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and	High pressure	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed
distributor	Low pressure	mm (in.)	22.2(7/8) Brazed	-
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External		WKD94G060	
	Wiring		WYN B0-7953	WYN B0-7953
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Outdoor Twinning kit: CMY-R100XLVBK 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. Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s. The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.	

Notes:

1. Nominal cooling conditions (subject to JIS B8615-2)
   Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
2. Nominal heating conditions (subject to JIS B8615-2)
   Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°FWB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
4. External static pressure option is available (30Pa, 60Pa/3.1mmH_2O, 6.1mmH_2O).

Unit converter

kcal/h =kW x 860
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.

R2(HIGH COP)

1. SPECIFICATIONS

Model			PURY-EP700YSJM-A(-BS)
Power source			3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity *1		kW	80.0
(Nominal) *1		kcal / h	68,800
*1		BTU / h	273,000
	Power input	kW	21.22
	Current input	A	35.8-34.0-32.8
	EER	kW / kW	3.77
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C(59~75°F)
*3	Outdoor	D.B.	-5.0~46.0°C(23~115°F)
Heating capacity *2		kW	88.0
(Nominal) *2		kcal / h	75,700
*2		BTU / h	300,300
	Power input	kW	22.05
	Current input	A	37.2-35.3-34.0
	COP	kW / kW	3.99
Temp. range of heating	Indoor	D.B.	15.0~27.0°C(59~81°F)
*3	Outdoor	W.B.	-20.0~15.5°C(-4~60°F)
Indoor unit	Total capacity		50~150 % of outdoor unit capacity
connectable	Model / Quantity		P15~P250 / 2~50
Sound pressure level (measured in anechoic room)		dB <A>	64
Power pressure level (measured in anechoic room)		dB <A>	84
Refrigerant	High pressure	mm (in.)	28.58(1-1/8) Brazed
piping diameter	Low pressure	mm (in.)	34.93(1-3/8) Brazed

Set Model

Model			PURY-EP350YJM-A(-BS)	PURY-EP350YJM-A(-BS)
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Air flow rate	m^3 / min	360	360
		L/s	6,000	6,000
		cfm	12,712	12,712
	Control, Driving mechanism		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	Motor output	kW	0.92 x 2	0.92 x 2
*4	External static press.		0 Pa (0 mmH_2O)	0 Pa (0 mmH_2O)
Compressor	Type x Quantity		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	9.9	9.9
	Case heater	kW	0.045(240 V)	0.045(240 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 HxWxD		mm	1,710(1,650 without legs) x 1,750 x 760	1,710(1,650 without legs) x 1,750 x 760
		in.	67-3/8(65 without legs) x 68-15/16 x 29-15/16	67-3/8(65 without legs) x 68-15/16 x 29-15/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15MPa (601 psi)	High pressure sensor, High pressure switch at 4.15MPa (601 psi)
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
	Fan motor		Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 11.8kg (27lbs)	R410A x 11.8kg (27lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	320(706)	320(706)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and	High pressure	mm (in.)	19.05(3/4) Brazed	19.05(3/4) Brazed
distributor	Low pressure	mm (in.)	28.58(1-1/8) Brazed	-
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External		WKD94G061	
	Wiring		WYN B0-7953	WYN B0-7953
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Outdoor Twinning kit: CMY-R100XLVBK 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. Systems with considerably long pipe runs, in heating mode, may be subject to slightly louder than normal noise from the outdoor unit/s. The outdoor twinning kit (low pressure) should be connected to the low pressure side of the outdoor unit. If the connected units are of different capacities, the outdoor twinning kit (low pressure) should be installed in the unit with the largest capacity.	

Notes:

1. Nominal cooling conditions (subject to JIS B8615-2)
   Indoor: 27°CDB/19°CWB (81°FDB/66°FWB), Outdoor: 35°CDB (95°FDB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
2. Nominal heating conditions (subject to JIS B8615-2)
   Indoor: 20°CDB (68°FDB), Outdoor: 7°CDB/6°CWB (45°FDB/43°FWB)
   Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
3. -5°CD.B. (23°FD.B.)/-6°CW.B. (21°FW.B.) to 21°CD.B. (70°FD.B.)/15.5°CW.B. (60°FW.B.) with cooling/heating mixed operation.
4. External static pressure option is available (30Pa, 60Pa/3.1mmH_2O, 6.1mmH_2O).

Unit converter

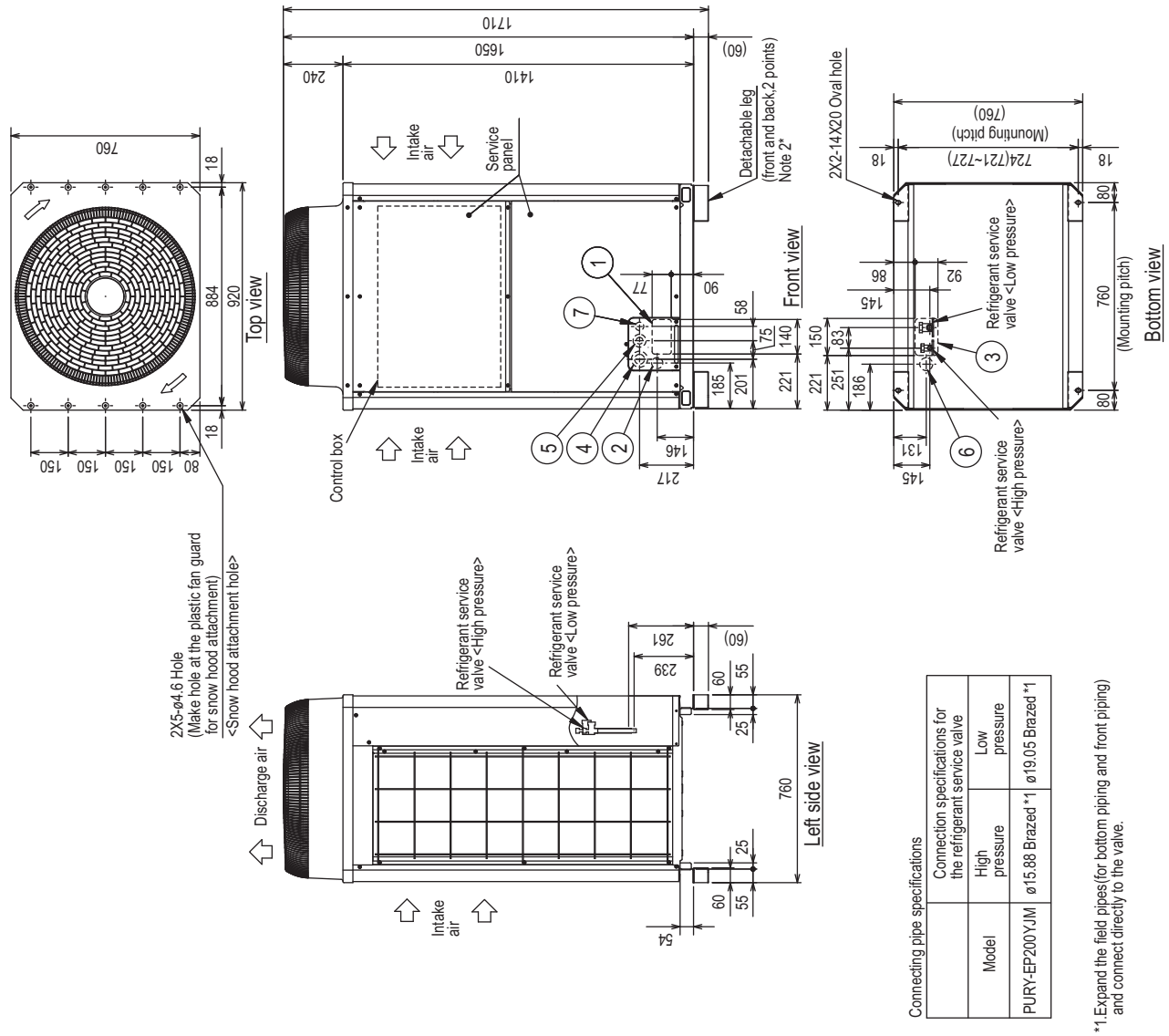
kcal/h	=kW x 860
BTU/h	=kW x 3,412
cfm	=m^3/min x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

R2(HIGH COP)

PURY-EP200YJM-A(-BS)

Unit : mm



NO.	Usage		Specifications
①	For pipes	Front through hole	140X77 Knockout hole
②		Front through hole (Uses when twinning kit (optional parts) is mounted.)	ø45 Knockout hole
③		Bottom through hole	150X92 Knockout hole
④	For wires	Front through hole	ø65 or ø40 Knockout hole
⑤		Front through hole	ø52 or ø27 Knockout hole
⑥		Bottom through hole	ø62 Knockout hole
⑦	For transmission cables	Front through hole	ø34 Knockout hole

Connecting pipe specifications

Model	Connection specifications for the refrigerant service valve	
	High pressure	Low pressure
PURY-EP200YJM	ø15.88 Brazed *1	ø19.05 Brazed *1

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

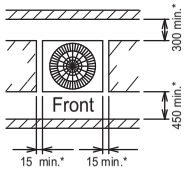
R2(HIGH COP)

1.Required space around the unit

● In case of single installation

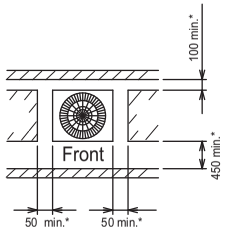
① Secure enough space around the unit as shown in the figure below.

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



<Top view>

· With a space of at least 100mm to the wall on the back of the unit

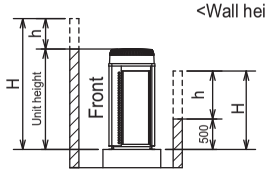


<Top view>

<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.

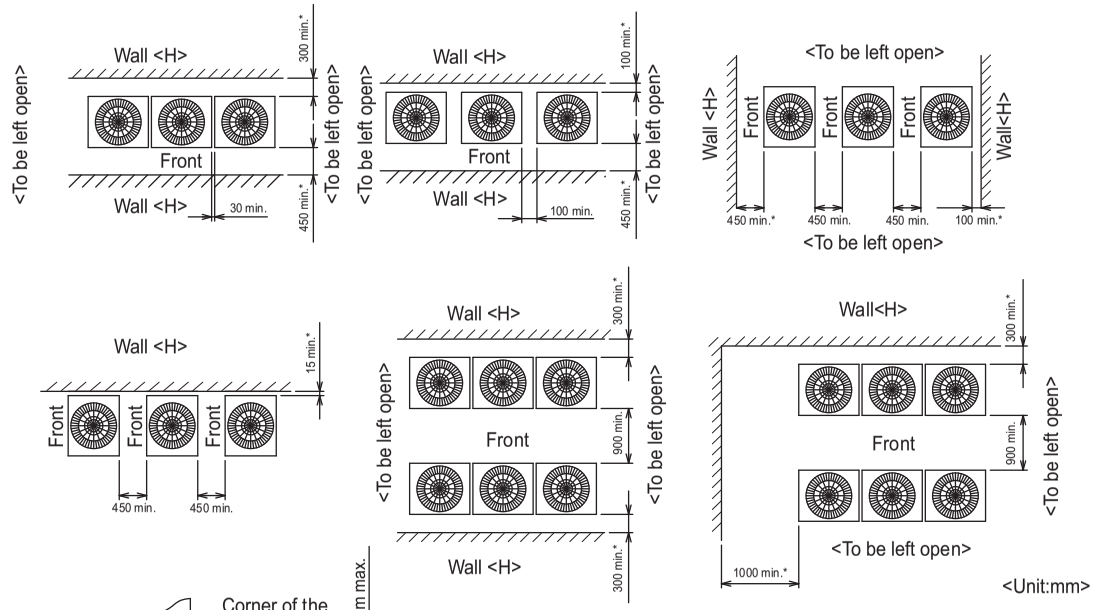
<Wall height limit> Front :Up to the unit height
Back :Up to 500mm from the unit bottom
Side :Up to the unit height



<Side view>

● 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.



<Unit:mm>

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.

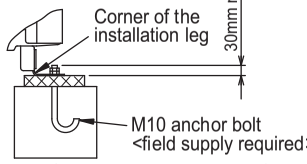


Fig.A (without detachable legs)

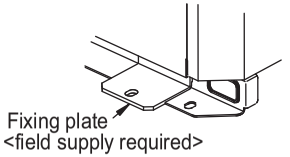


Fig.C (without detachable legs)

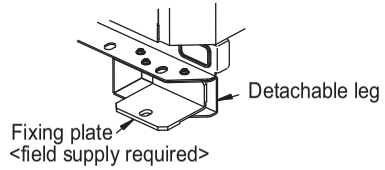


Fig.D (with detachable legs)

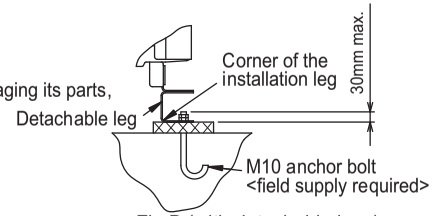


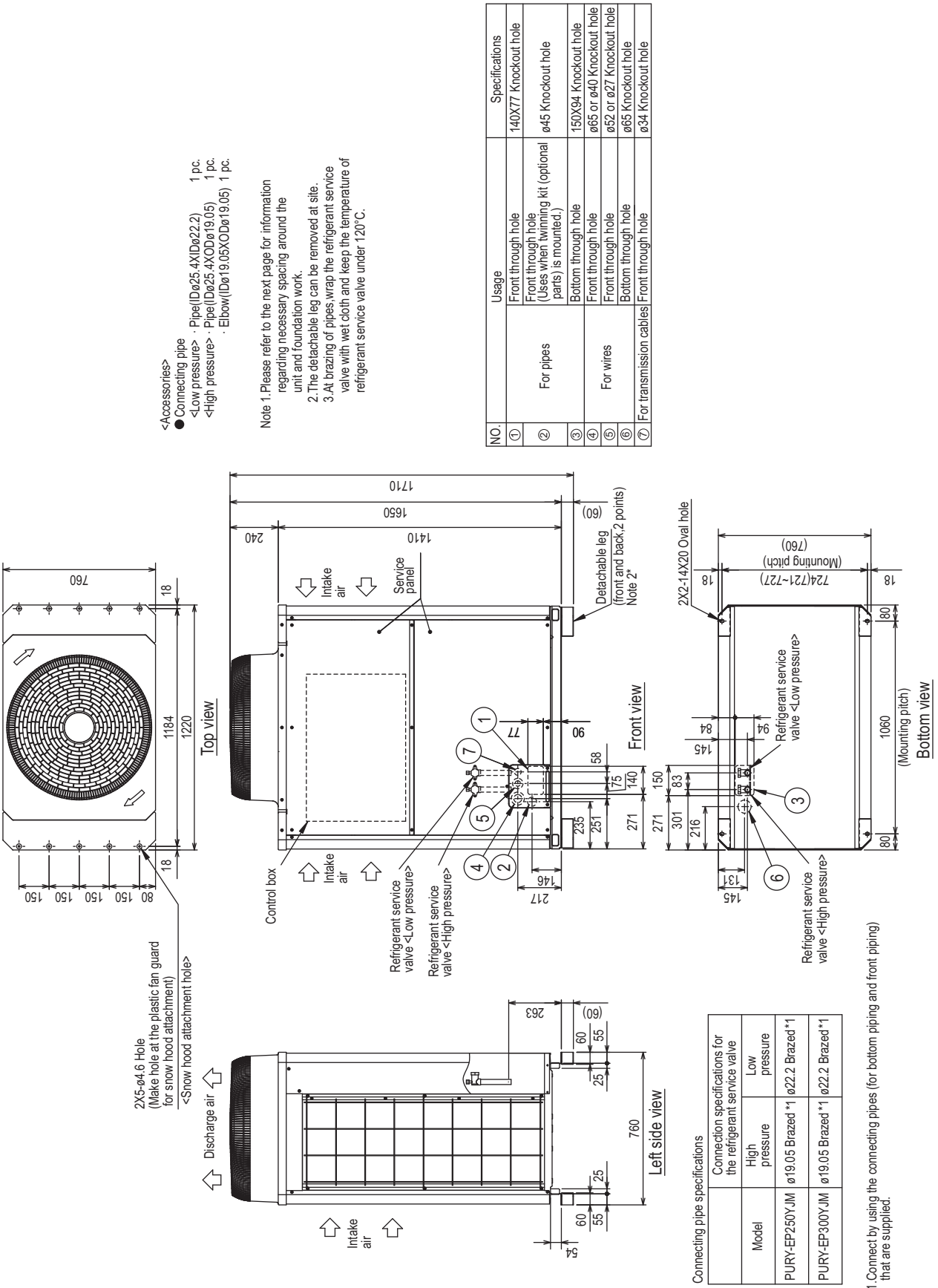
Fig.B (with detachable legs)

Unit : mm

2. EXTERNAL DIMENSIONS

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

Unit : mm



R2(HIGH COP)

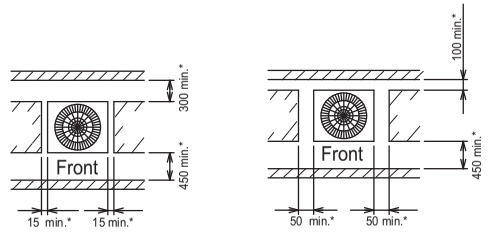
1.Required space around the unit

● In case of single installation

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

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

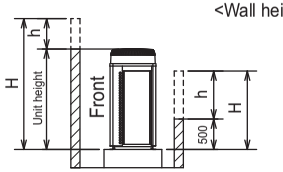
· With a space of at least 100mm to the wall on the back of the unit



<Top view> <Top view> <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



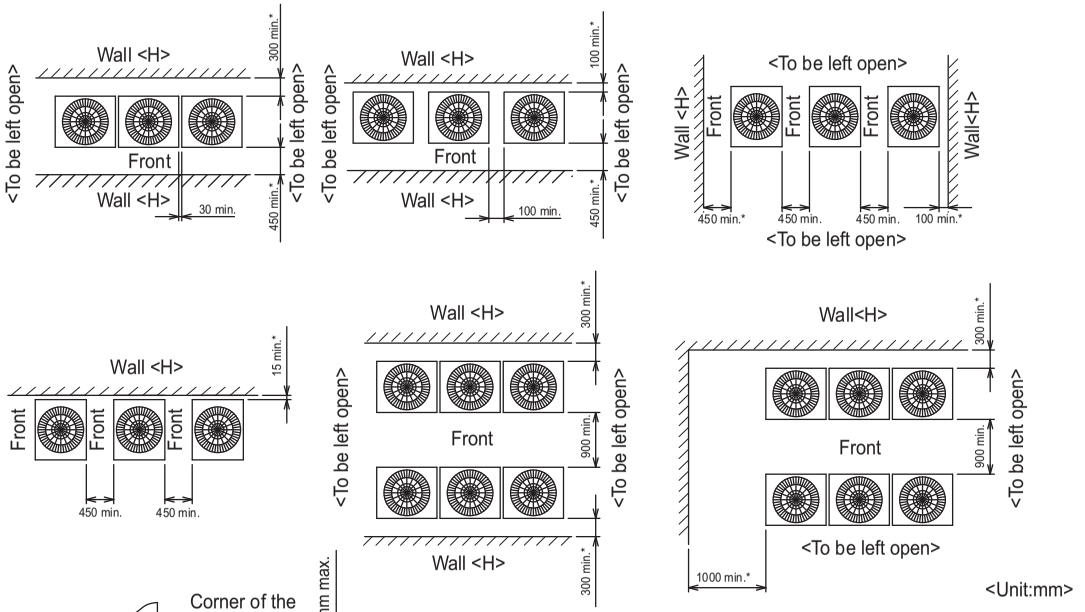
<Side view>

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.



<Unit:mm>

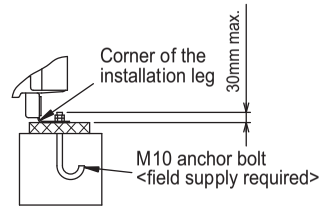


Fig.A (without detachable legs)

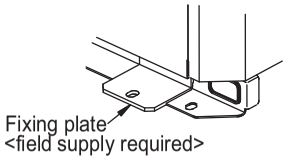


Fig.C (without detachable legs)

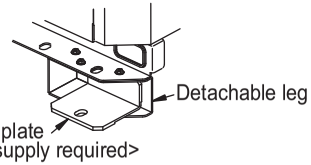


Fig.D (with detachable legs)

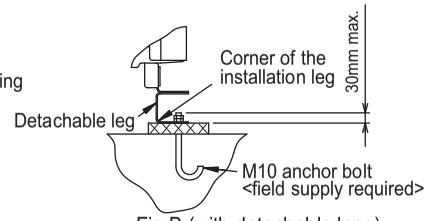


Fig.B (with detachable legs)

Unit : mm

2. EXTERNAL DIMENSIONS

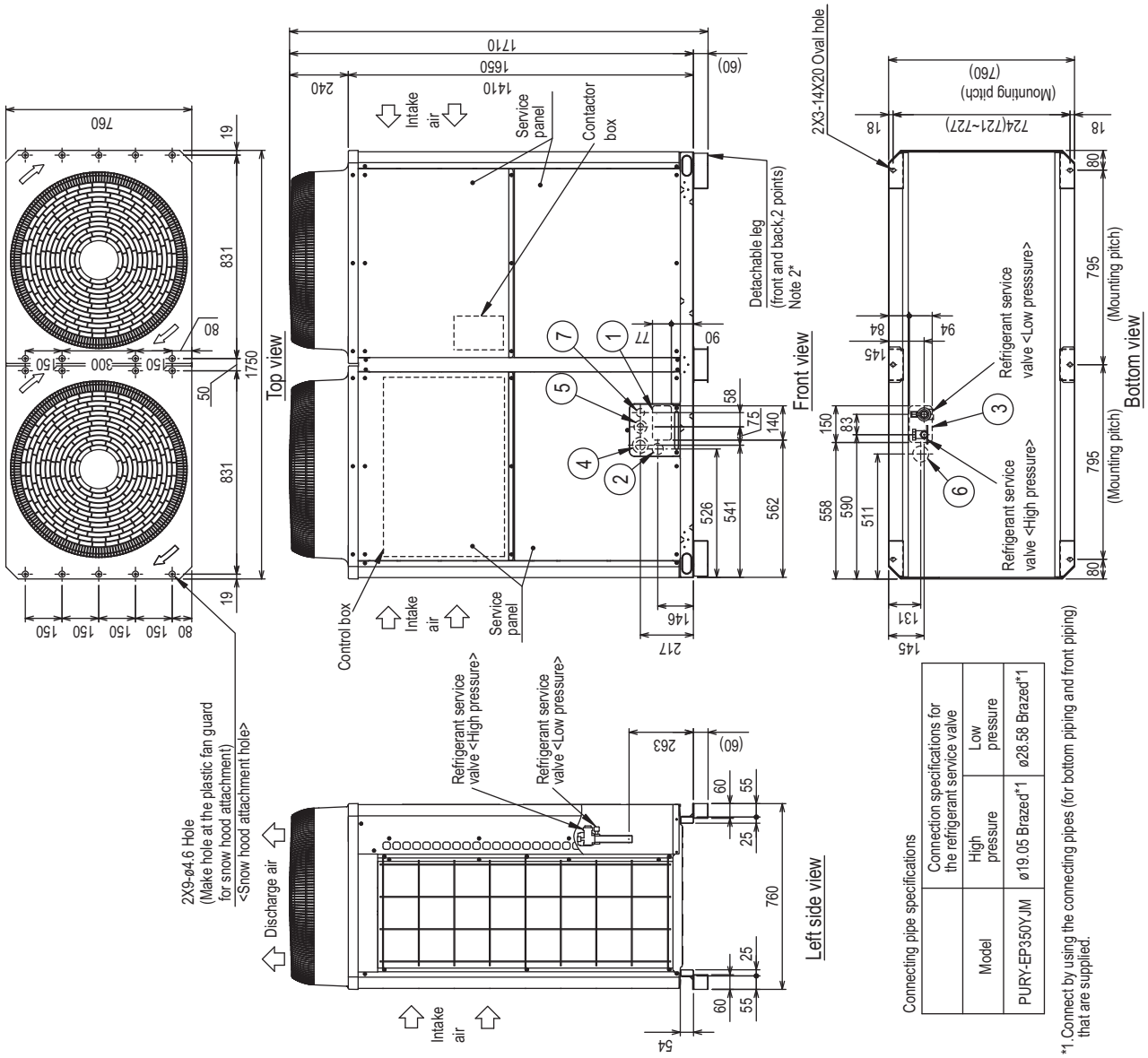
PURY-EP350YJM-A(-BS)

Unit : mm

<Accessories>
● Connecting pipe
<Low pressure> · Pipe(ID⌀28.58XOD⌀28.58) 1 pc.
<High pressure> · Pipe(ID⌀25.4XOD⌀19.05) 1 pc.
· Elbow(ID⌀19.05XOD⌀19.05) 1 pc.

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

NO.	Usage		Specifications
①	For pipes	Front through hole	140 X 77 Knockout hole
②		Front through hole (Uses when twinning kit (optional parts) is mounted.)	⌀45 Knockout hole
③		Bottom through hole	150 X 94 Knockout hole
④	For wires	Front through hole	⌀65 or ⌀40 Knockout hole
⑤		Front through hole	⌀52 or ⌀27 Knockout hole
⑥		Bottom through hole	⌀65 Knockout hole
⑦	For transmission cables	Front through hole	⌀34 Knockout hole



Connecting pipe specifications

Model	Connection specifications for the refrigerant service valve	
	High pressure	Low pressure
PURY-EP350YJM	ø19.05 Brazed*1	ø28.58 Brazed*1

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

R2(HIGH COP)

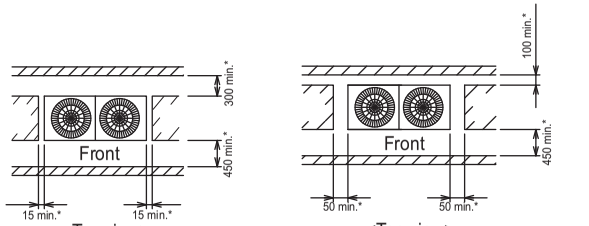
1.Required space around the unit

●In case of single installation

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

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

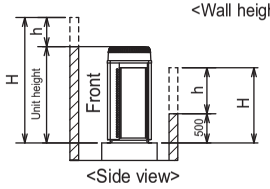
· With a space of at least 100mm to the wall on the back of the unit



<Unit:mm(in)>

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

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

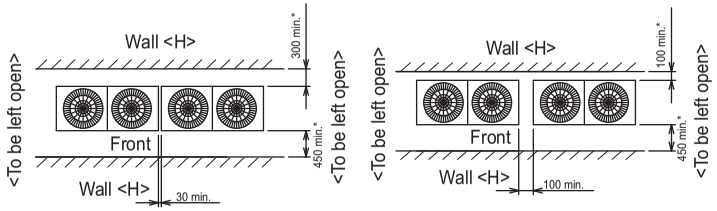


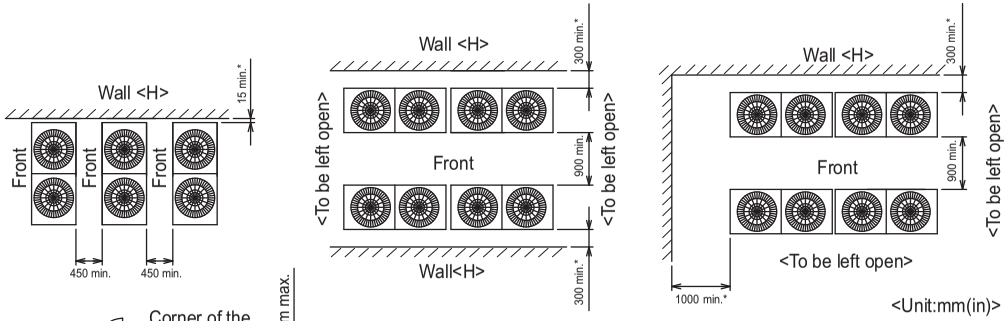
2.Foundation work

① Take into consideration the surface strength,water drainage route, piping route,and wiring route when preparing the installation site. <Note that the drain water comes out of the unit during operation.>
② Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure.(Fig.A,B) 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 three units consecutively in the side direction and provide a space of 1000mm or more as inlet space/ passage space for each three units.





<Unit:mm(in)>

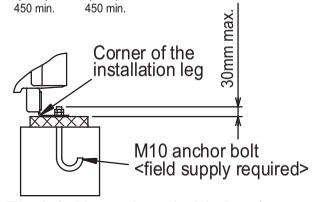


Fig.A (without detachable legs)

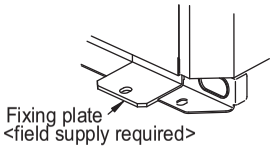


Fig.C (without detachable legs)

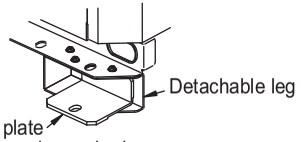


Fig.D (with detachable legs)

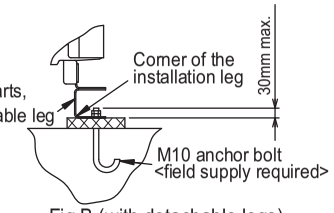
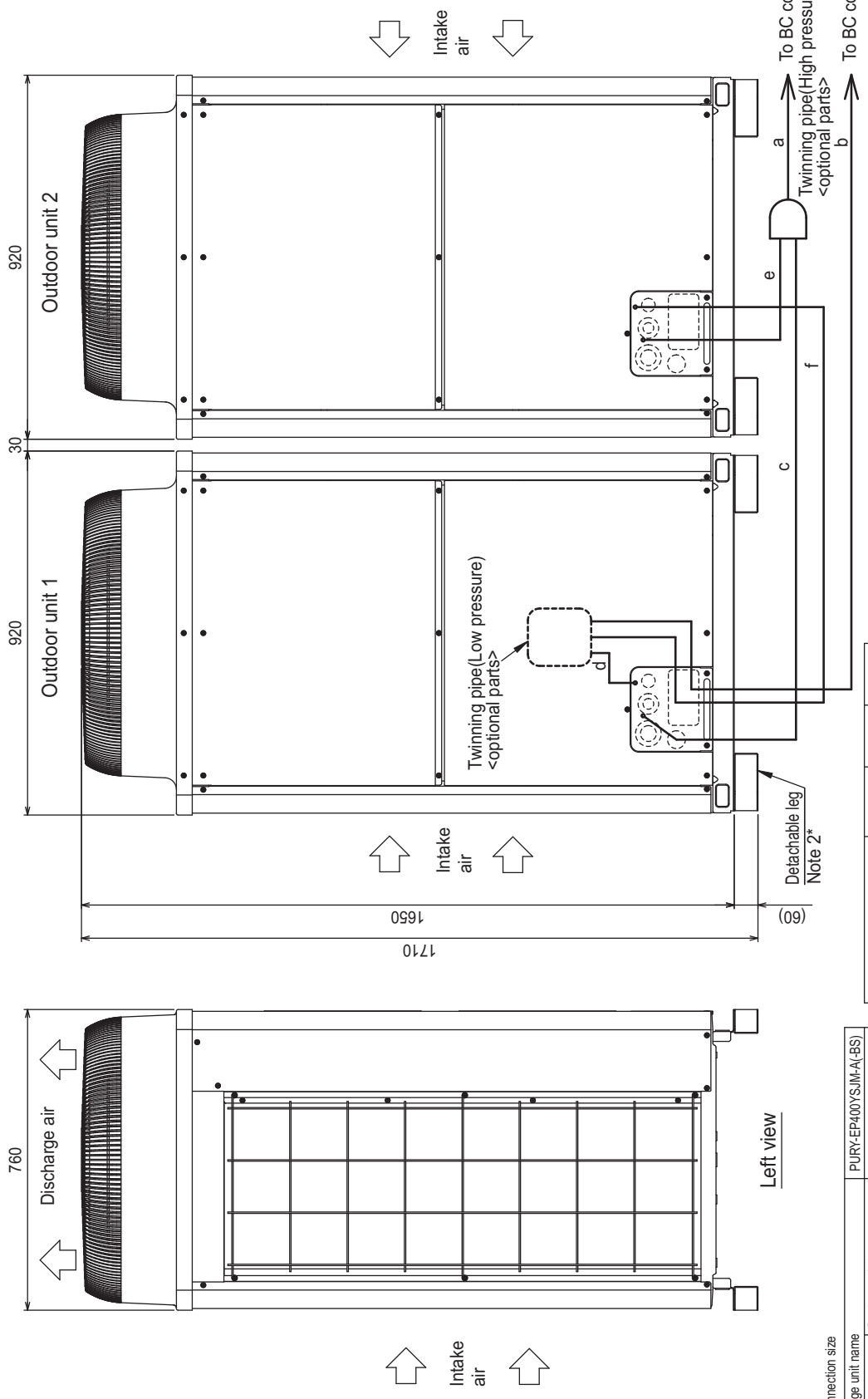


Fig.B (with detachable legs)

Unit : mm

PURY-EP400YSJM-A(-BS)

Unit : mm



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

Twinning pipe connection size

Package unit name			PURY-EP400YSJM-A(-BS)
Component unit name	Outdoor unit 1		PURY-EP200YJM-A(-BS)
	Outdoor unit 2		PURY-EP200YJM-A(-BS)
Outdoor Twinning Kit(optional parts)			CMY-R100VBK(2)
BC controller~Twinning pipe	High pressure	a	ø22.2
	Low pressure	b	ø28.58

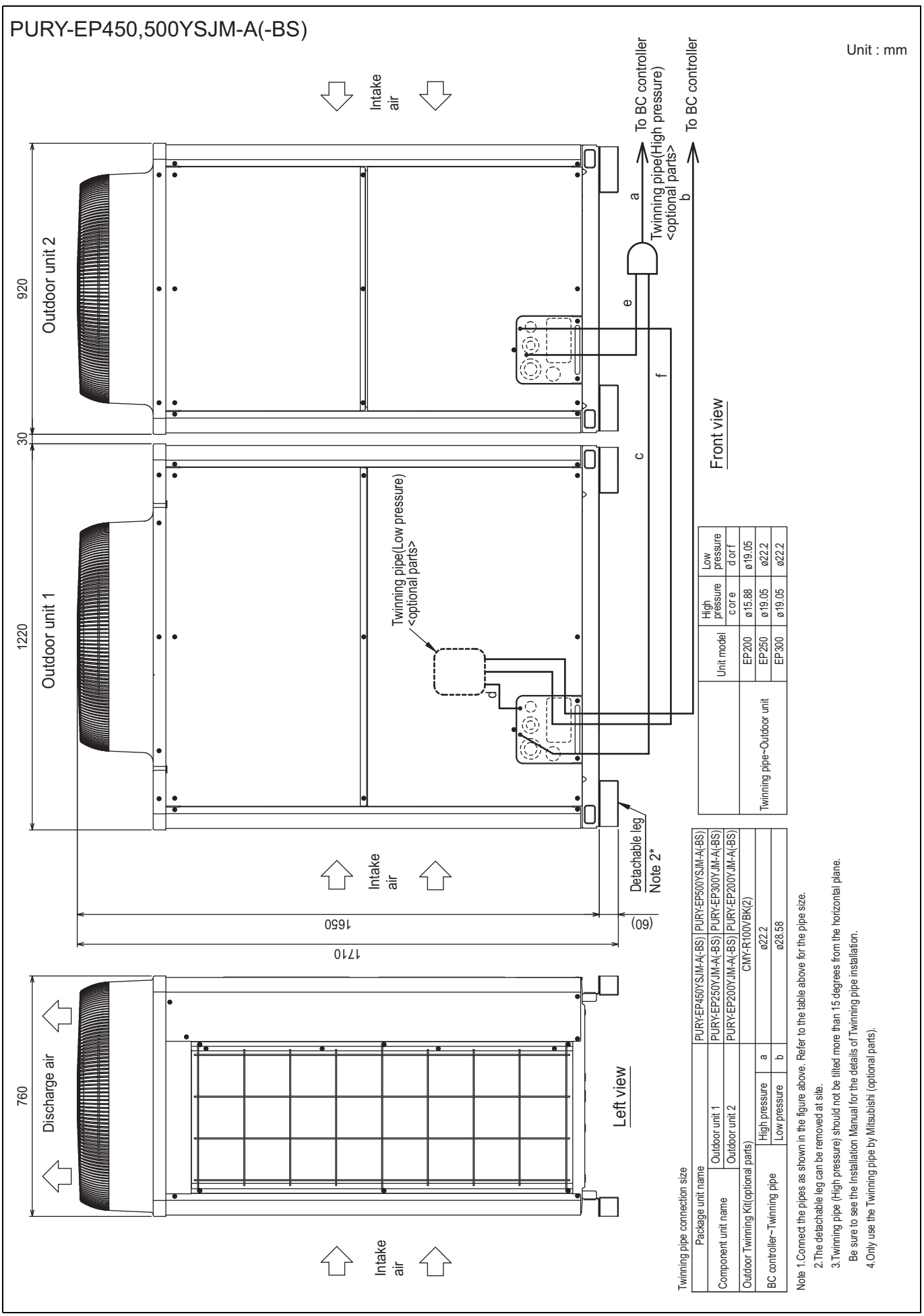
Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2. The detachable leg can be removed at site.
3. Twinning pipe (High pressure) should not be tilted more than 15 degrees from the horizontal plane.
Be sure to see the Installation Manual for the details of Twinning pipe installation.
4. Only use the Twinning pipe by Mitsubishi (optional parts).

R2(HIGH COP)

2. EXTERNAL DIMENSIONS

PURY-EP450,500YSJM-A(-BS)

Unit : mm



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

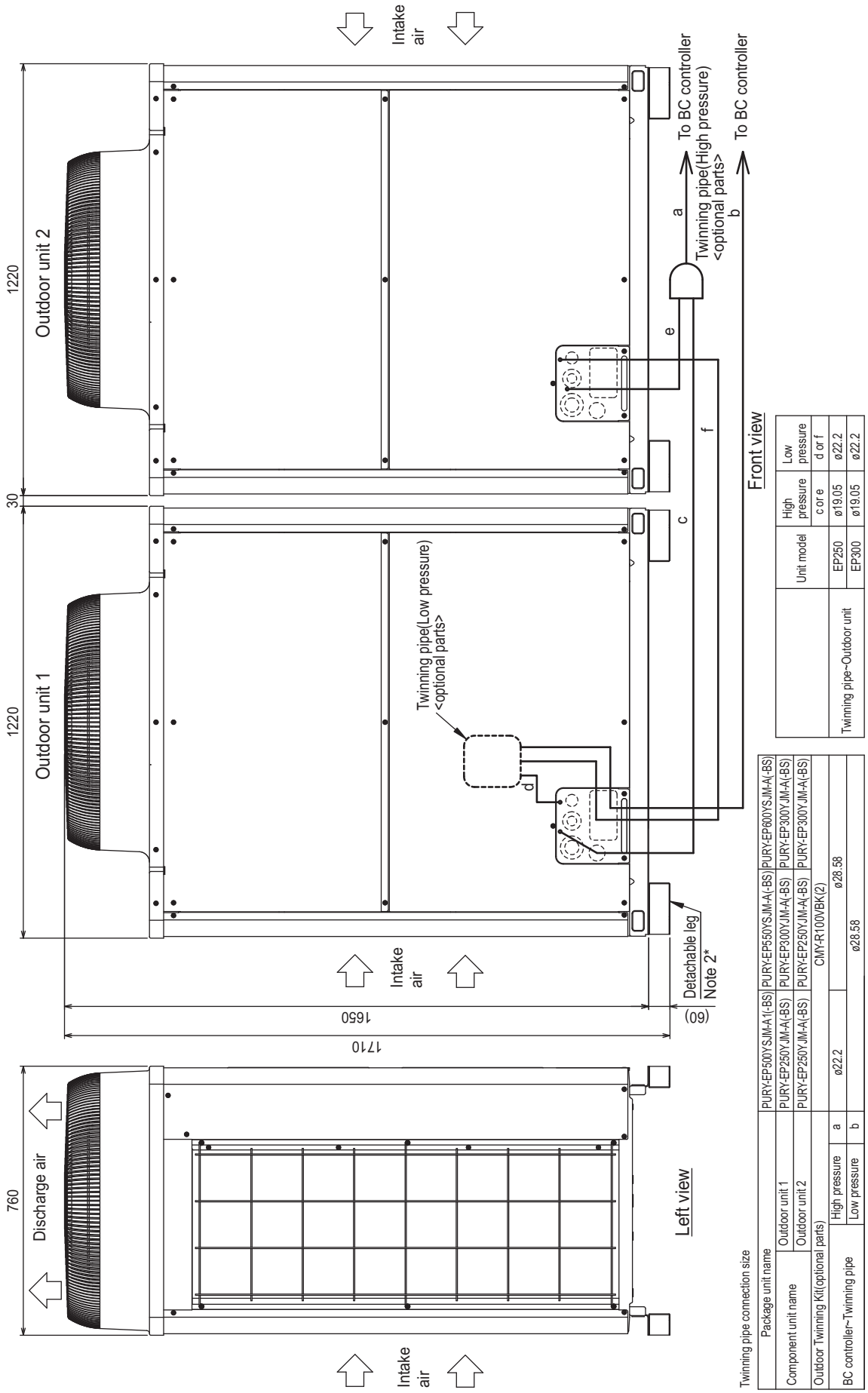
Twinning pipe connection size

Package unit name			PURY-EP450YSJM-A(-BS)	PURY-EP500YSJM-A(-BS)
Component unit name	Outdoor unit 1		PURY-EP250YJM-A(-BS)	PURY-EP300YJM-A(-BS)
	Outdoor unit 2		PURY-EP200YJM-A(-BS)	PURY-EP200YJM-A(-BS)
Outdoor Twinning Kit(optional parts)			CMY-R100VBK(2)	
BC controller~Twinning pipe	High pressure	a	ø22.2	
	Low pressure	b	ø28.58	

Note 1.Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2.The detachable leg can be removed at site.
3.Twinning pipe (High pressure) should not be tilted more than 15 degrees from the horizontal plane.
Be sure to see the Installation Manual for the details of Twinning pipe installation.
4.Only use the Twinning pipe by Mitsubishi (optional parts).

PURY-EP500,550,600YSJM-A(1)(-BS)

Unit : mm



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

Twinning pipe connection size

Package unit name			PURY-EP500YSJM-A1(-BS)	PURY-EP550YSJM-A(-BS)	PURY-EP600YSJM-A(-BS)
Component unit name	Outdoor unit 1		PURY-EP250YJM-A(-BS)	PURY-EP300YJM-A(-BS)	PURY-EP300YJM-A(-BS)
	Outdoor unit 2		PURY-EP250YJM-A(-BS)	PURY-EP250YJM-A(-BS)	PURY-EP300YJM-A(-BS)
Outdoor Twinning Kit(optional parts)			CMY-R100VBK(2)		
BC controller~Twinning pipe	High pressure	a	ø22.2	ø28.58	
	Low pressure	b	ø28.58		

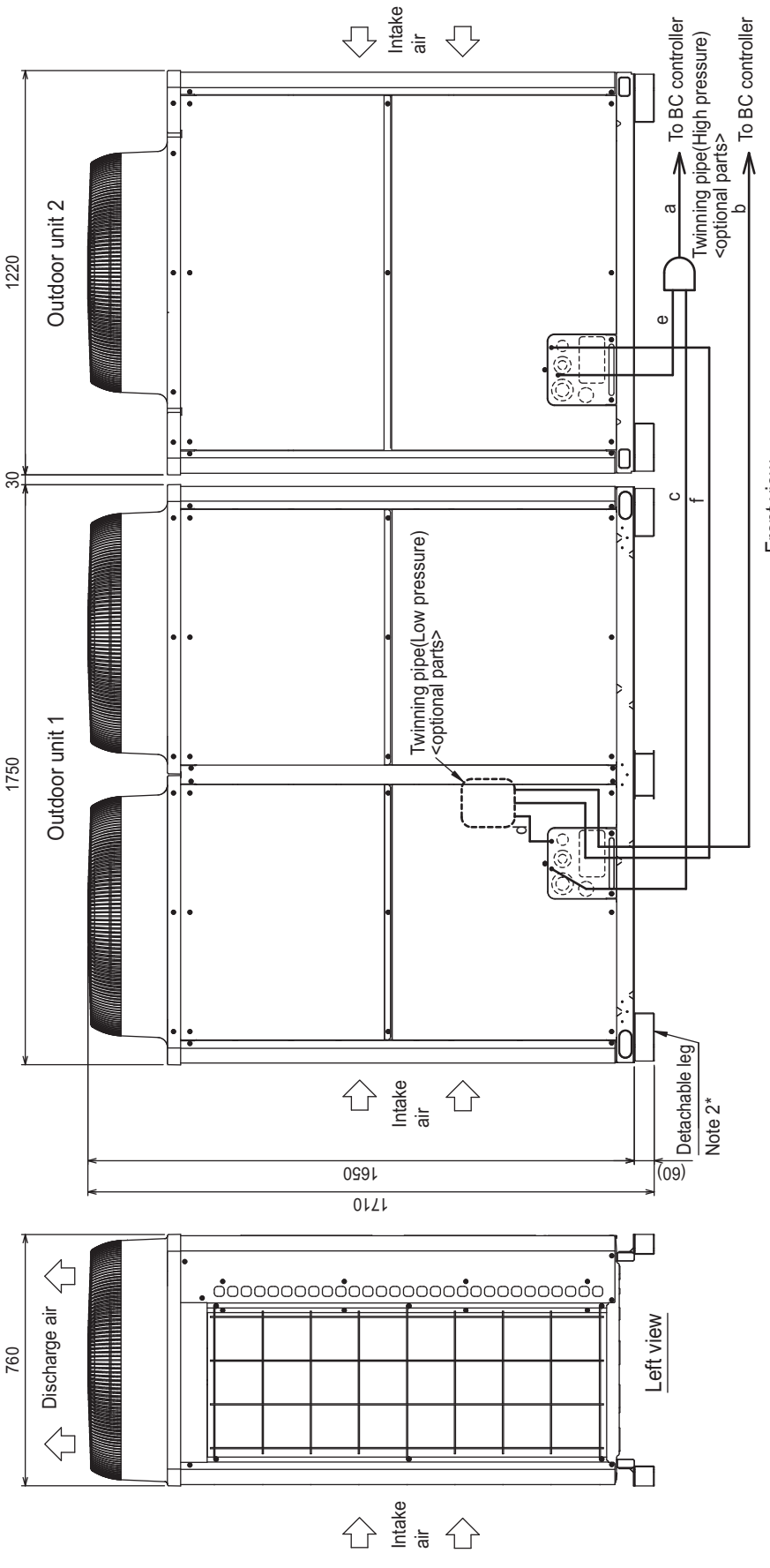
Note 1.Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2.The detachable leg can be removed at site.
3.Twinning pipe (High pressure) should not be tilted more than 15 degrees from the horizontal plane.
Be sure to see the Installation Manual for the details of Twinning pipe installation.
4.Only use the Twinning pipe by Mitsubishi (optional parts).

R2(HIGH COP)

2. EXTERNAL DIMENSIONS

PURY-EP600,650YSJM-A(1)(-BS)

Unit : mm



		Unit model	High pressure	Low pressure
			c or e	d or f
Twinning pipe~Outdoor unit		EP250	ø19.05	ø22.2
		EP300	ø19.05	ø22.2
		EP350	ø19.05	ø28.58

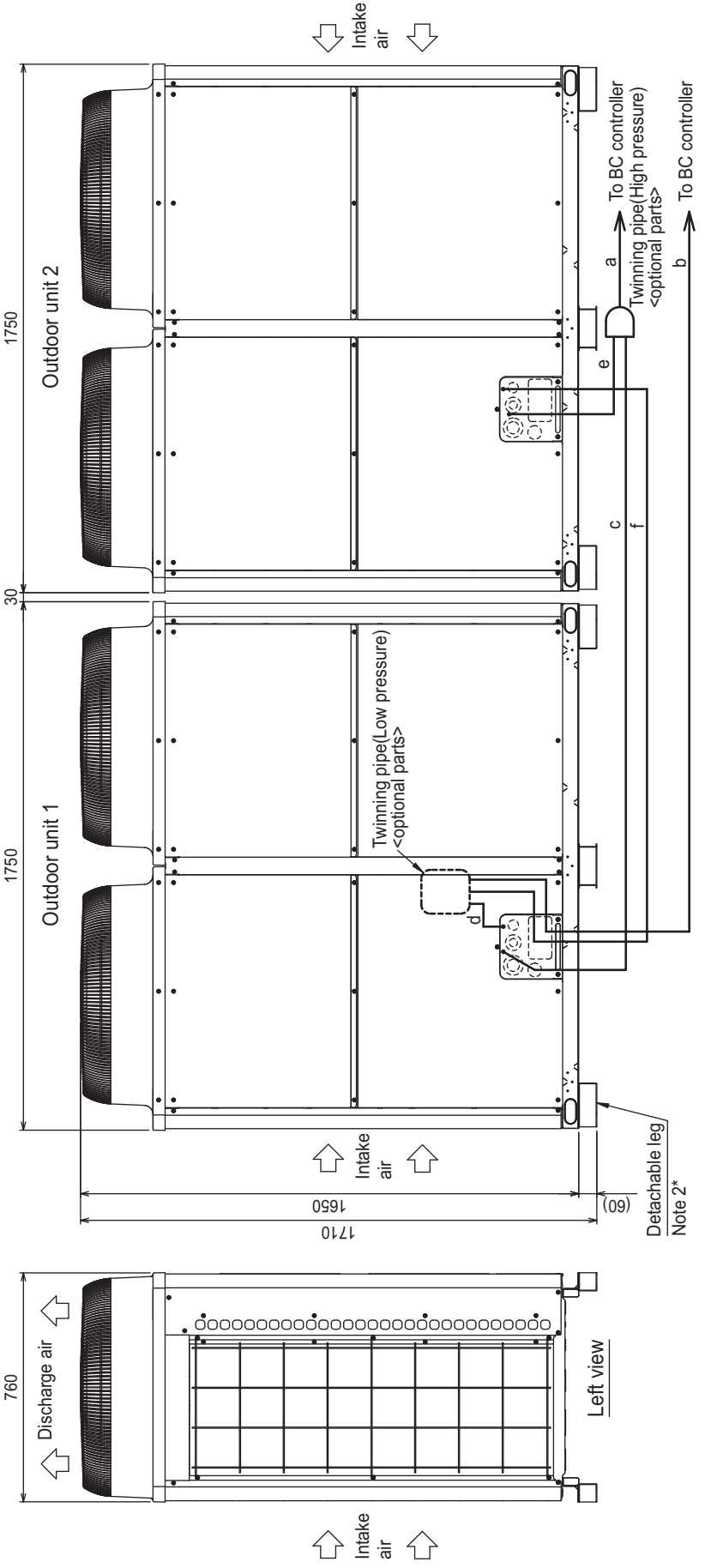
Twinning pipe connection size

Package unit name			PURY-EP600YSJM-A1(-BS)	PURY-EP650YSJM-A(-BS)
Component unit name	Outdoor unit 1		PURY-EP350YJM-A(-BS)	PURY-EP350YJM-A(-BS)
	Outdoor unit 2		PURY-EP250YJM-A(-BS)	PURY-EP300YJM-A(-BS)
Outdoor Twinning Kit(optional parts)			CMY-R100XLVBK	
BC controller~Twinning pipe	High pressure	a	ø28.58	
	Low pressure	b	ø28.58	

Note 1.Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2.The detachable leg can be removed at site.
3.Twinning pipe (High pressure) should not be tilted more than 15 degrees from the horizontal plane.
Be sure to see the Installation Manual for the details of Twinning pipe installation.
4.Only use the Twinning pipe by Mitsubishi (optional parts).

PURY-EP700YSJM-A(-BS)

Unit : mm



Twinning pipe connection size

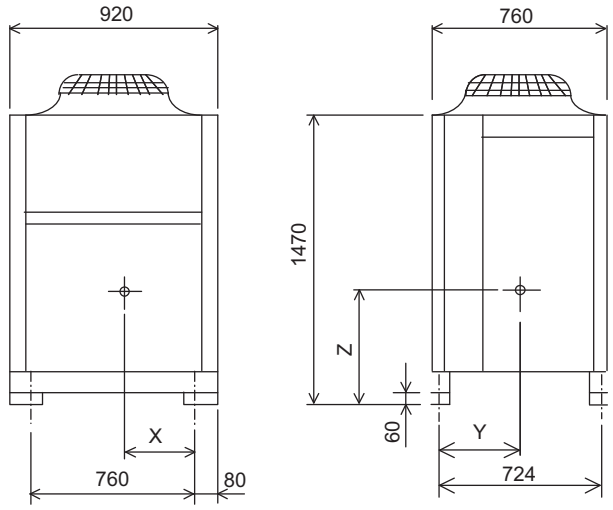
Package unit name			PURY-EP700YSJM-A(-BS)
Component unit name	Outdoor unit 1		PURY-EP350YJM-A(-BS)
	Outdoor unit 2		PURY-EP350YJM-A(-BS)
Outdoor Twinning Kit(optional parts)			CMY-R100XLVBK
BC controller~Twinning pipe	High pressure	a	ø28.58
	Low pressure	b	ø34.93

	Unit model	High pressure	Low pressure
Twinning pipe~Outdoor unit	EP350	c or e	d or f
		ø19.05	ø28.58

Note 1.Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2.The detachable leg can be removed at site.
3.Twinning pipe (High pressure) should not be tilted more than 15 degrees from the horizontal plane.
Be sure to see the Installation Manual for the details of Twinning pipe installation.
4.Only use the Twinning pipe by Mitsubishi (optional parts).

R2(HIGH COP)

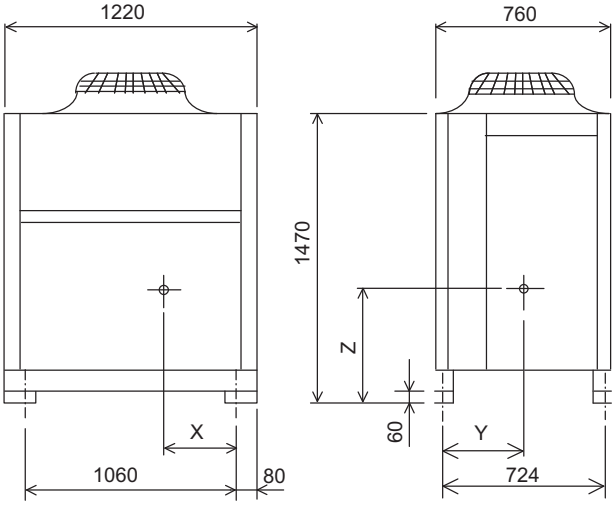
PURY-P200, P250, P300, EP200YJM-A (-BS)



Unit:mm

Model	X	Y	Z
PURY-P200YJM-A (-BS)	345	317	655
PURY-P250YJM-A (-BS)	345	332	655
PURY-P300YJM-A (-BS)	335	327	645
PURY-EP200YJM-A (-BS)	345	332	655

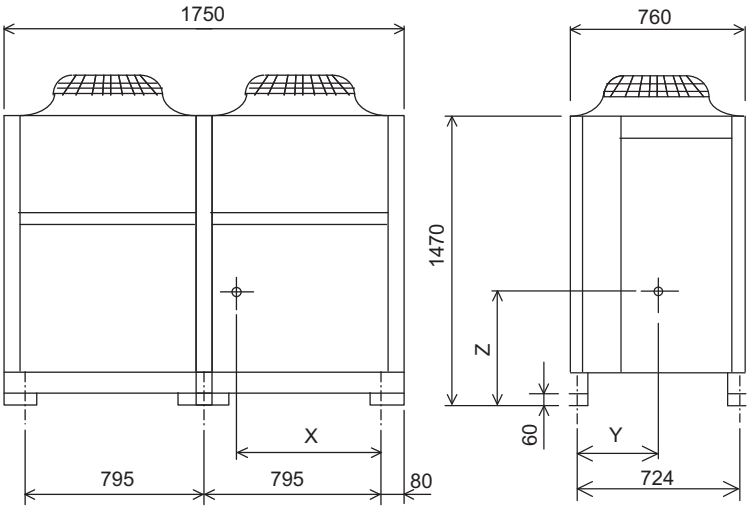
PURY-P350, P400, EP250, EP300YJM-A (-BS)



Unit:mm

Model	X	Y	Z
PURY-P350YJM-A (-BS)	450	322	630
PURY-P400YJM-A (-BS)	450	322	630
PURY-EP250YJM-A (-BS)	450	322	630
PURY-EP300YJM-A (-BS)	450	322	630

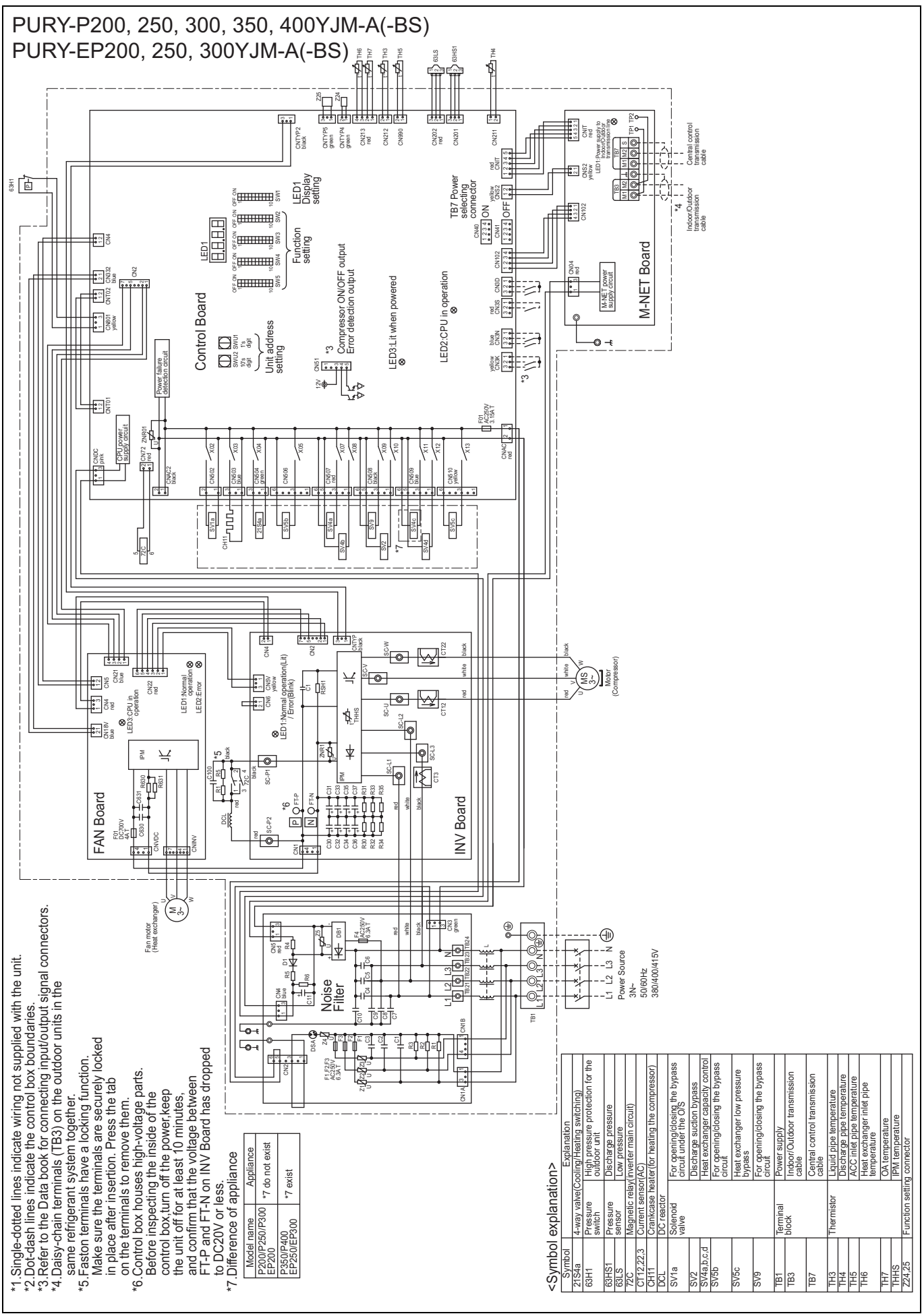
PURY-P450, EP350YJM-A (-BS)



Unit:mm

Model	X	Y	Z
PURY-P450YJM-A (-BS)	726	318	728
PURY-EP350YJM-A (-BS)	726	318	728

PURY-P200, 250, 300, 350, 400YJM-A(-BS)
PURY-EP200, 250, 300YJM-A(-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 remove them.
*6.Control box houses high-voltage parts. Before inspecting the inside of the control box,turn off the power,keep the unit off for at least 10 minutes, and confirm that the voltage between FT-P and FT-N on INV Board has dropped to DC20V or less.
*7.Difference of appliance

Model name	Appliance
P200/P250/P300 EP200	*7 do not exist
P350/P400 EP250/EP300	*7 exist

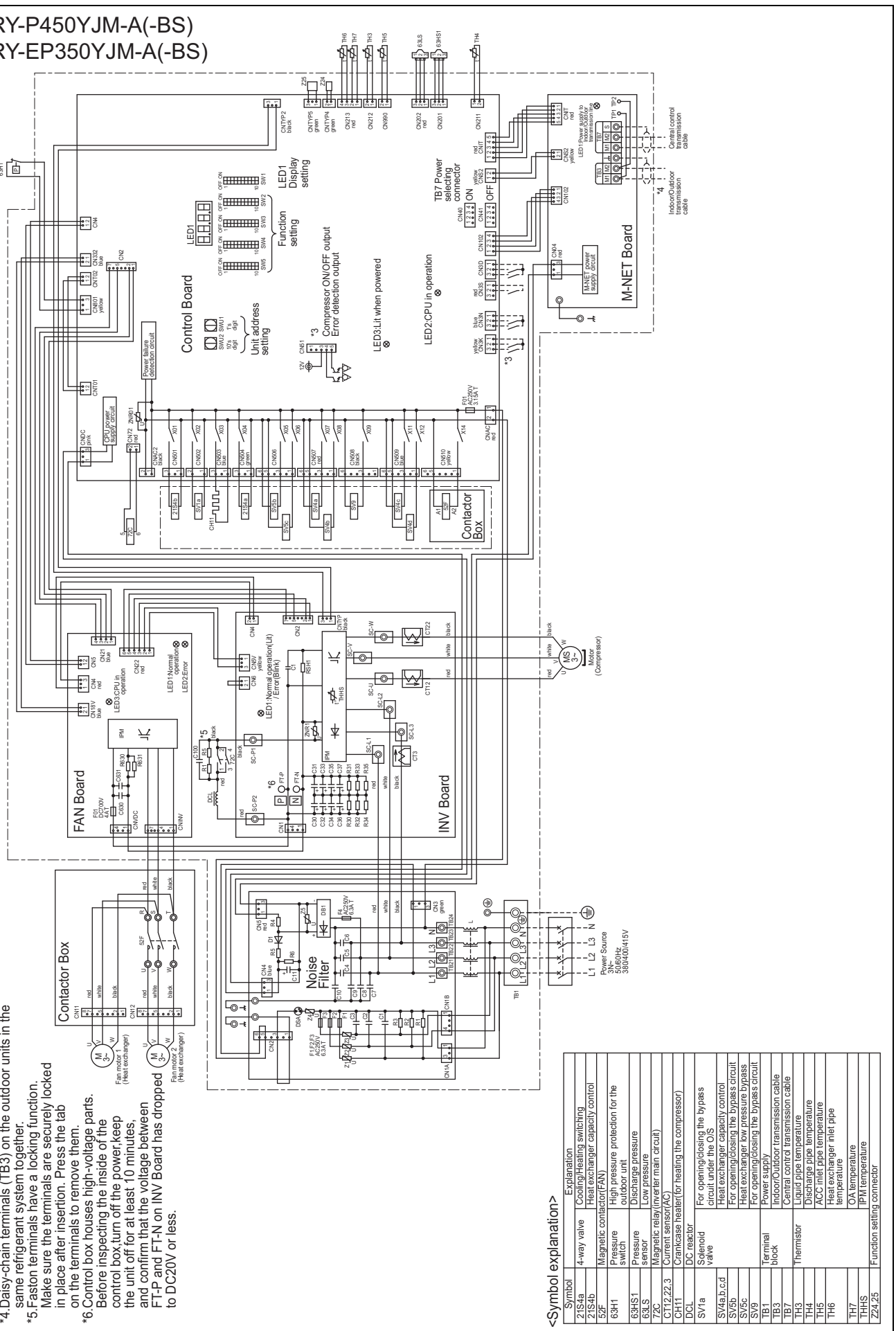
<Symbol explanation>

Symbol		Explanation
21S4a		4-way valve(Cooling/Heating switching)
63H1	Pressure switch	High pressure protection for the outdoor unit
63HS1	Pressure sensor	Discharge pressure
63LS		Low pressure
72C		Magnetic relay(Inverter main circuit)
CT12,22,3		Current sensor(AC)
CH11		Crankcase heater(for heating the compressor)
DCL		DC reactor
SV1a	Solenoid valve	For opening/closing the bypass circuit under the O/S
SV2		Discharge suction bypass
SV4a,b,c,d		Heat exchanger capacity control
SV5b		For opening/closing the bypass circuit
SV5c		Heat exchanger low pressure bypass
SV9		For opening/closing the bypass circuit
TB1	Terminal block	Power supply
TB3		Indoor/Outdoor transmission cable
TB7		Central control transmission cable
TH3	Thermistor	Liquid pipe temperature
TH4		Discharge pipe temperature
TH5		ACC inlet pipe temperature
TH6		Heat exchanger inlet pipe temperature
TH7		OA temperature
THHS		IPM temperature
Z24,25	Function setting connector	

R2(HIGH COP)

R2(HIGH COP)

PURY-P450YJM-A(-BS)
PURY-EP350YJM-A(-BS)

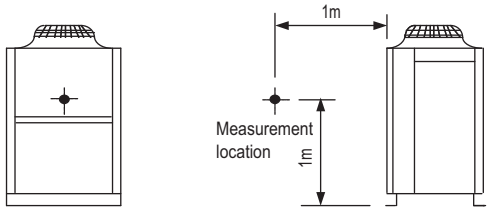


*1. Single-dotted lines indicate wiring not supplied with the unit.
*2. Dot-dash lines indicate the control box boundaries.
*3. Refer to the Data book for connecting input/output signal connectors.
*4. Daisy-chain terminals (TB3) on the outdoor units in the same refrigerant system together.
*5. Faston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

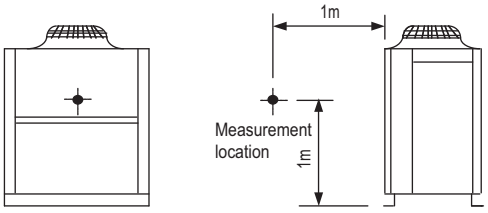
<Symbol explanation>

Symbol		Explanation
21S4a	4-way valve	Cooling/Heating switching
21S4b		Heat exchanger capacity control
52F	Magnetic contactor(FAN)	
63H1	Pressure switch	High pressure protection for the outdoor unit
63HS1	Pressure sensor	Discharge pressure
63LS		Low pressure
72C	Magnetic relay(inverter main circuit)	
CT12,22,3	Current sensor(AC)	
CH11	Crankcase heater(for heating the compressor)	
DCL	DC reactor	
SV1a	Solenoid valve	For opening/closing the bypass circuit under the O/S
SV4a,b,c,d		Heat exchanger capacity control
SV5b		For opening/closing the bypass circuit
SV5c		Heat exchanger low pressure bypass
SV9		For opening/closing the bypass circuit
TB1	Terminal block	Power supply
TB3		Indoor/Outdoor transmission cable
TB7		Central control transmission cable
TH3	Thermistor	Liquid pipe temperature
TH4		Discharge pipe temperature
TH5		ACC inlet pipe temperature
TH6		Heat exchanger inlet pipe temperature
TH7		OA temperature
THHS		IPM temperature
Z24,25	Function setting connector	

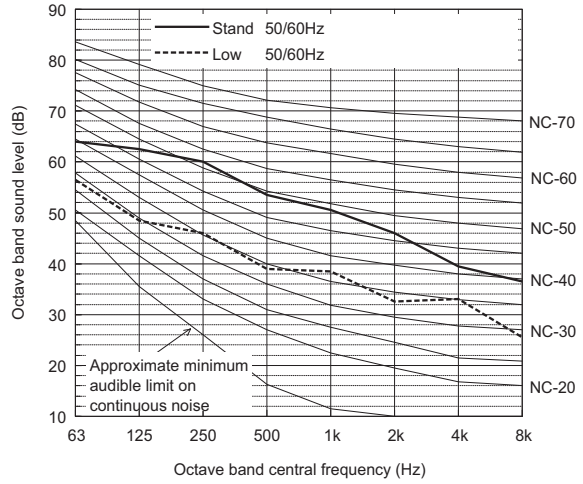
Measurement condition
PURY-EP200YJM-A(-BS)



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



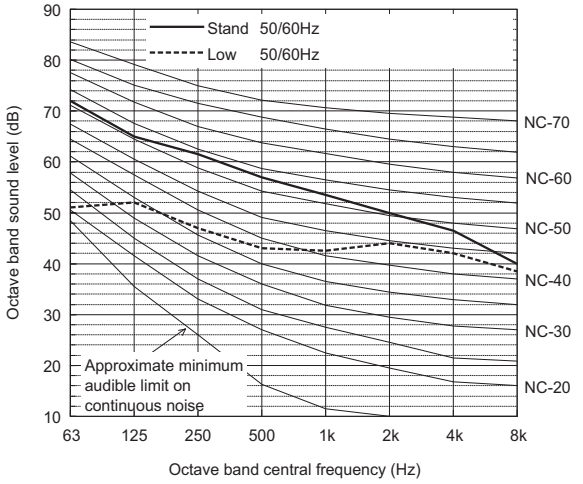
Sound level of PURY-EP200YJM-A(-BS)



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

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

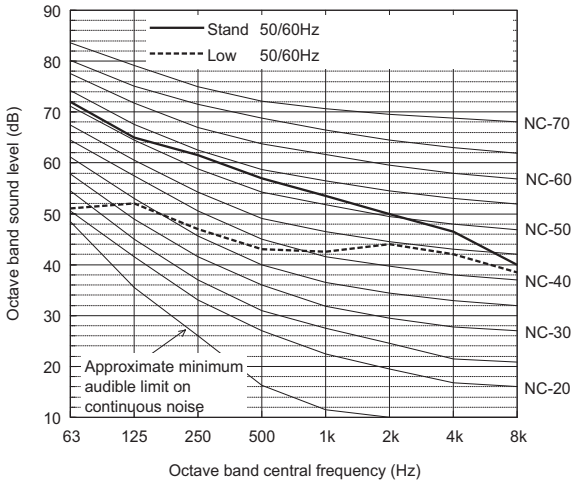
Sound level of PURY-EP250YJM-A(-BS)



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

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

Sound level of PURY-EP300YJM-A(-BS)

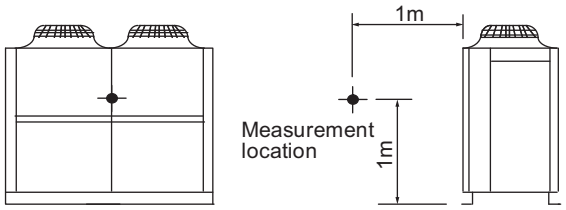


		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	72.0	65.0	61.5	57.0	53.5	50.0	46.5	40.0	60.0
Low noise mode	50/60Hz	51.0	52.0	47.0	43.0	42.5	44.0	42.0	38.5	50.0

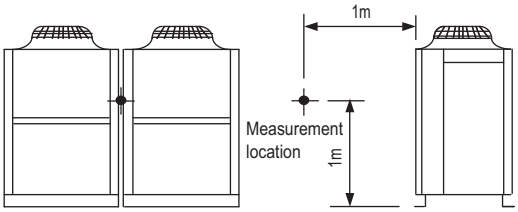
When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

R2(HIGH COP)

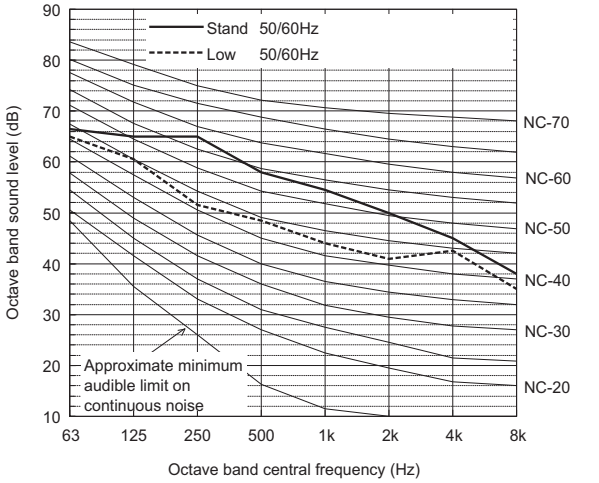
Measurement condition
PURY-EP350YJM-A(-BS)



Measurement condition
PURY-EP400YSJM-A(-BS)



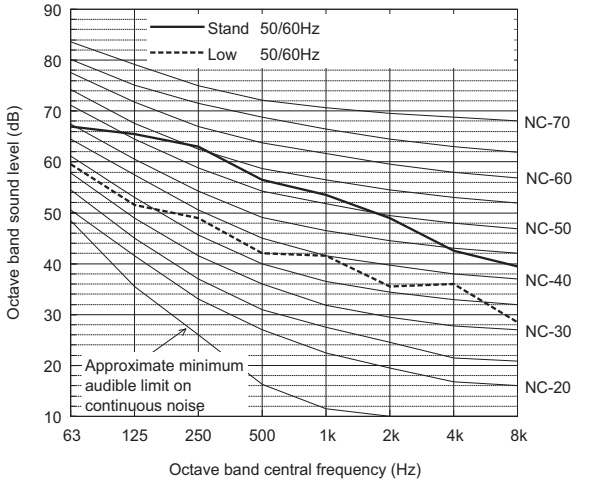
Sound level of PURY-EP350YJM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	66.5	65.0	65.0	58.0	54.5	50.0	45.0	38.0	61.0
Low noise mode	50/60Hz	65.0	60.5	51.5	48.5	44.0	41.0	42.5	35.0	52.0

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-EP400YSJM-A(-BS)

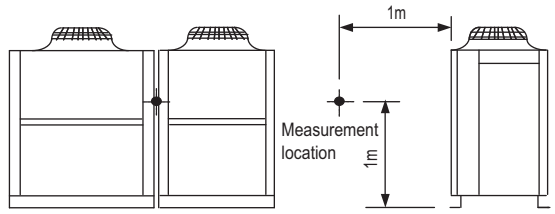


		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	67.0	65.5	63.0	56.5	53.5	49.0	42.5	39.5	60.0
Low noise mode	50/60Hz	59.5	51.5	49.0	42.0	41.5	35.5	36.0	28.5	47.0

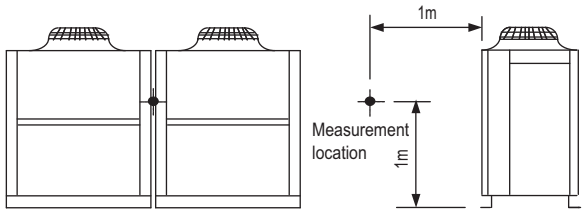
When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

R2(HIGH COP)

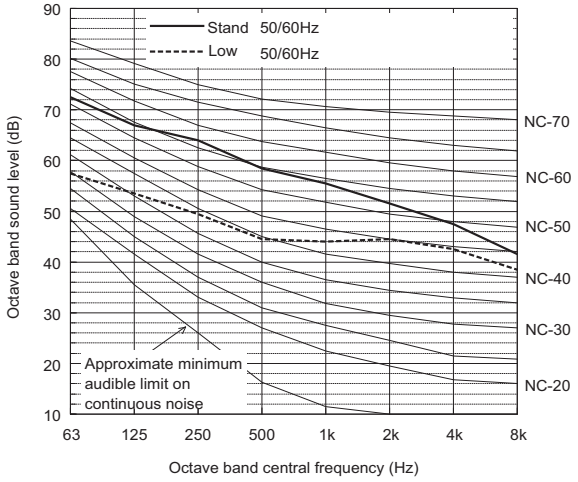
Measurement condition
PURY-EP450,500YSJM-A(-BS)



Measurement condition
PURY-EP500,550,600YSJM-A(1)(-BS)



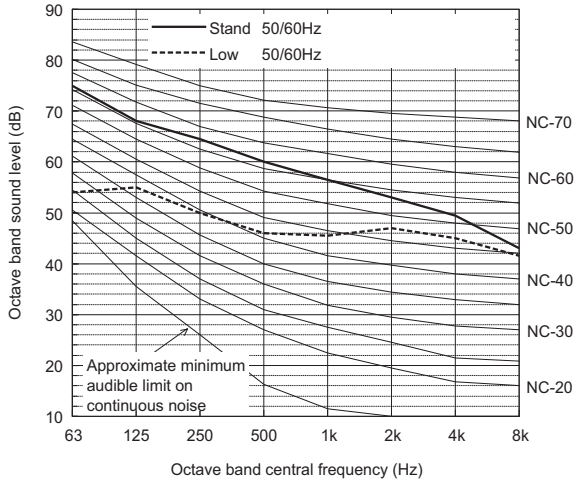
Sound level of PURY-EP450YSJM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	72.5	67.0	64.0	58.5	55.5	51.5	47.5	41.5	62.0
Low noise mode	50/60Hz	57.5	53.5	49.5	44.5	44.0	44.5	42.5	38.5	51.0

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

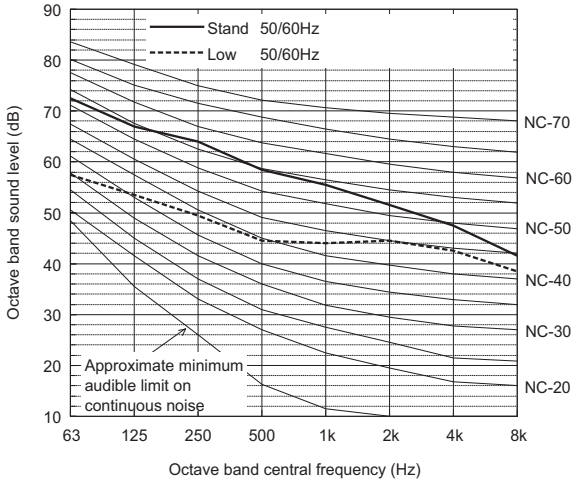
Sound level of PURY-EP500YSJM-A1(-BS)



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

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

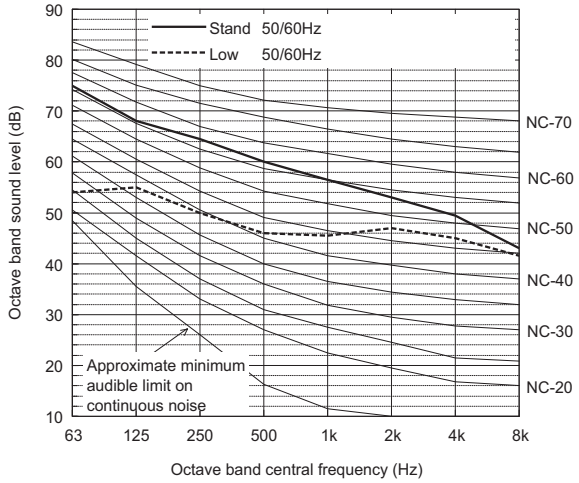
Sound level of PURY-EP500YSJM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	72.5	67.0	64.0	58.5	55.5	51.5	47.5	41.5	62.0
Low noise mode	50/60Hz	57.5	53.5	49.5	44.5	44.0	44.5	42.5	38.5	51.0

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

Sound level of PURY-EP550YSJM-A(-BS)

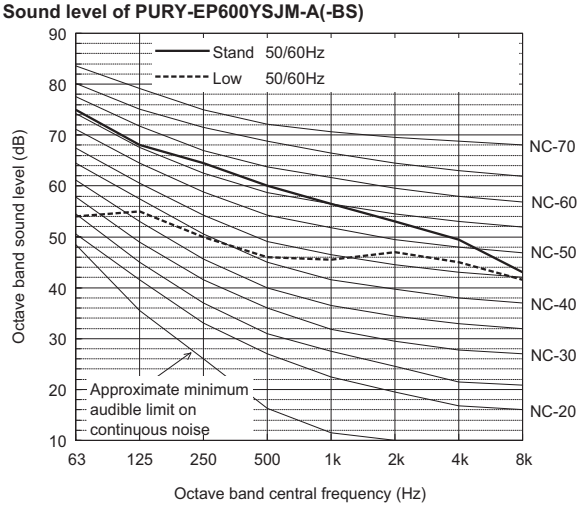


		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	75.0	68.0	64.5	60.0	56.5	53.0	49.5	43.0	63.0
Low noise mode	50/60Hz	54.0	55.0	50.0	46.0	45.5	47.0	45.0	41.5	53.0

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

R2(HIGH COP)

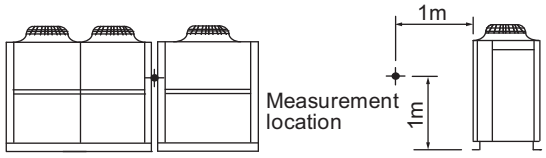
Sound level of PURY-EP600YSJM-A(-BS)



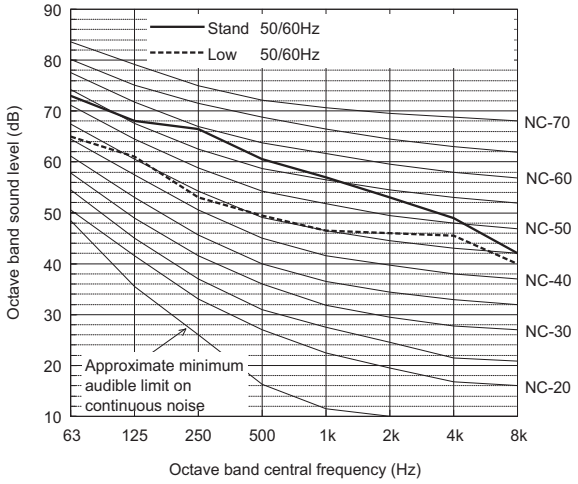
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	75.0	68.0	64.5	60.0	56.5	53.0	49.5	43.0	63.0
Low noise mode	50/60Hz	54.0	55.0	50.0	46.0	45.5	47.0	45.0	41.5	53.0

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

Measurement condition
PURY-EP600,650YSJM-A(1)(-BS)



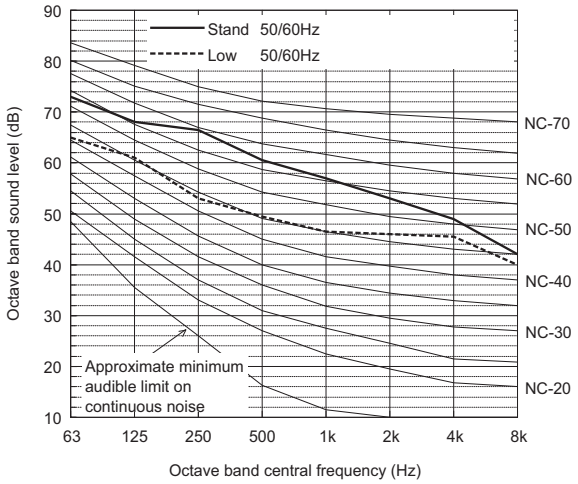
Sound level of PURY-EP600YSJM-A1(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	73.0	68.0	66.5	60.5	57.0	53.0	49.0	42.0	63.5
Low noise mode	50/60Hz	65.0	61.0	53.0	49.5	46.5	46.0	45.5	40.0	54.5

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-EP650YSJM-A(-BS)

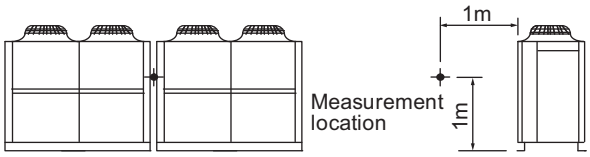


		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	73.0	68.0	66.5	60.5	57.0	53.0	49.0	42.0	63.5
Low noise mode	50/60Hz	65.0	61.0	53.0	49.5	46.5	46.0	45.5	40.0	54.5

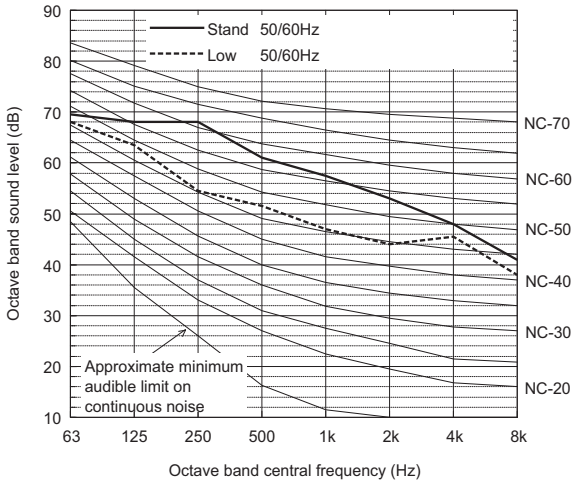
When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

R2(HIGH COP)

Measurement condition
PURY-EP700YSJM-A(-BS)



Sound level of PURY-EP700YSJM-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	50/60Hz	69.5	68.0	68.0	61.0	57.5	53.0	48.0	41.0	64.0
Low noise mode	50/60Hz	68.0	63.5	54.5	51.5	47.0	44.0	45.5	38.0	55.0

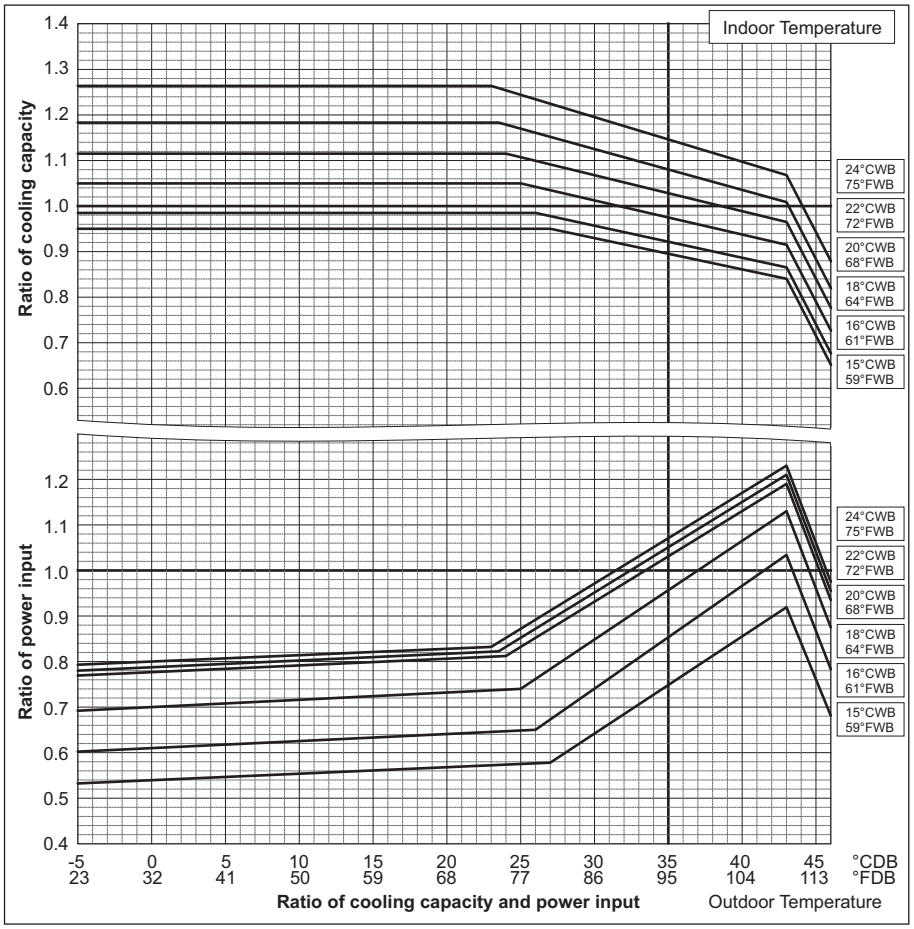
When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

R2(HIGH COP)

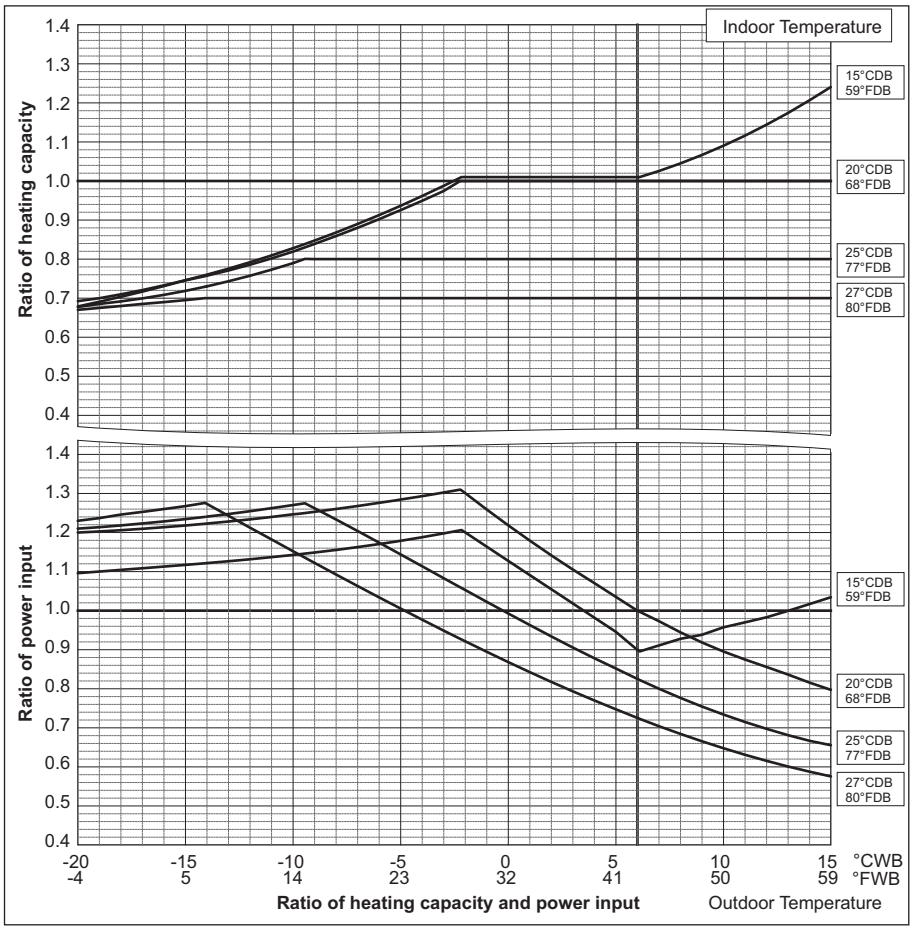
6-1. Correction by temperature

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

PURY-		EP200YJM-A	EP250YJM-A
Nominal Cooling Capacity	kW	22.4	28.0
	BTU/h	76,400	95,500
Input	kW	5.07	6.76



PURY-		EP200YJM-A	EP250YJM-A
Nominal Heating Capacity	kW	25.0	31.5
	BTU/h	85,300	107,500
Input	kW	5.56	7.15

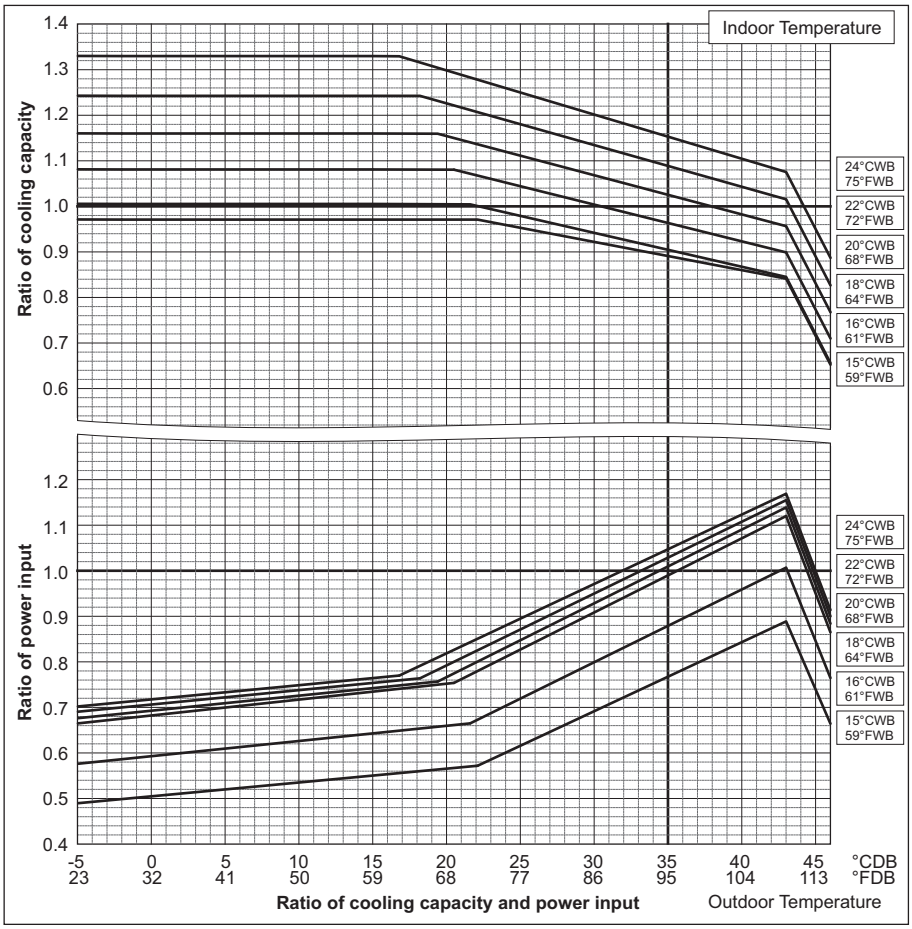


R2(HIGH COP)

6. CAPACITY TABLES

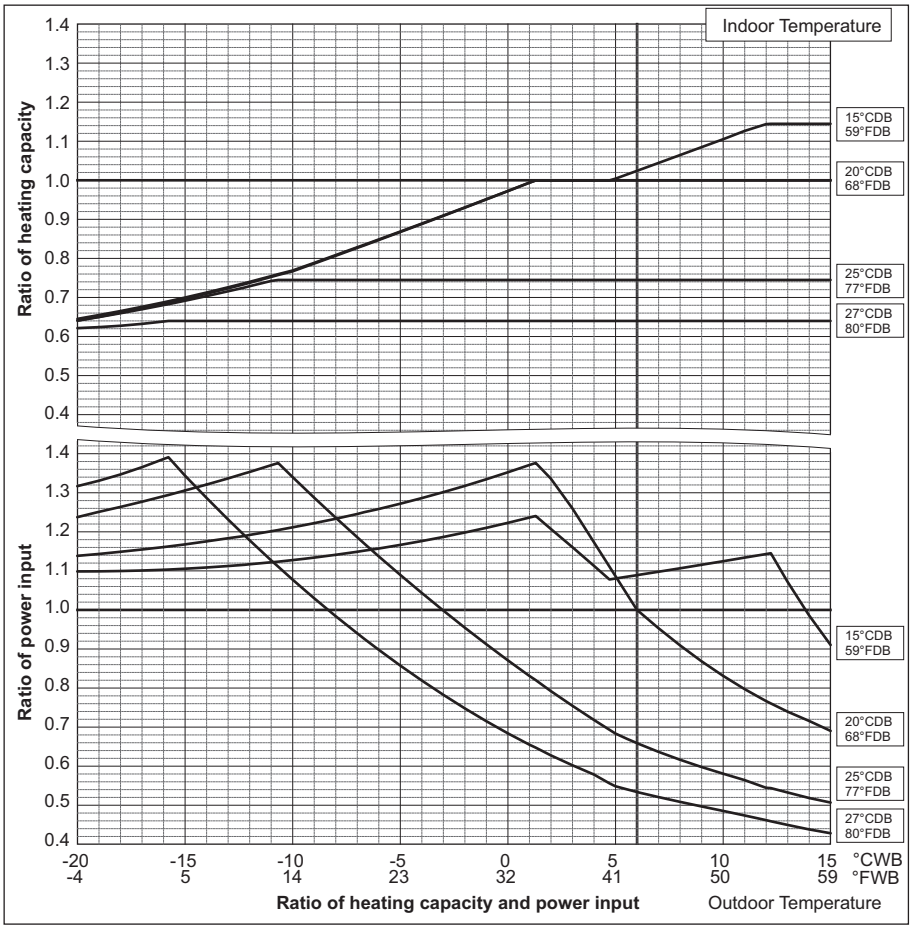
PURY-		EP300YJM-A	EP350YJM-A
Nominal Cooling Capacity	kW	33.5	40.0
	BTU/h	114,300	136,500
Input	kW	8.25	10.28

PURY-		EP400YSJM-A
Nominal Cooling Capacity	kW	45.0
	BTU/h	153,500
Input	kW	10.41



PURY-		EP300YJM-A	EP350YJM-A
Nominal Heating Capacity	kW	37.5	45.0
	BTU/h	128,000	153,500
Input	kW	8.60	10.58

PURY-		EP400YSJM-A
Nominal Heating Capacity	kW	50.0
	BTU/h	170,600
Input	kW	11.36



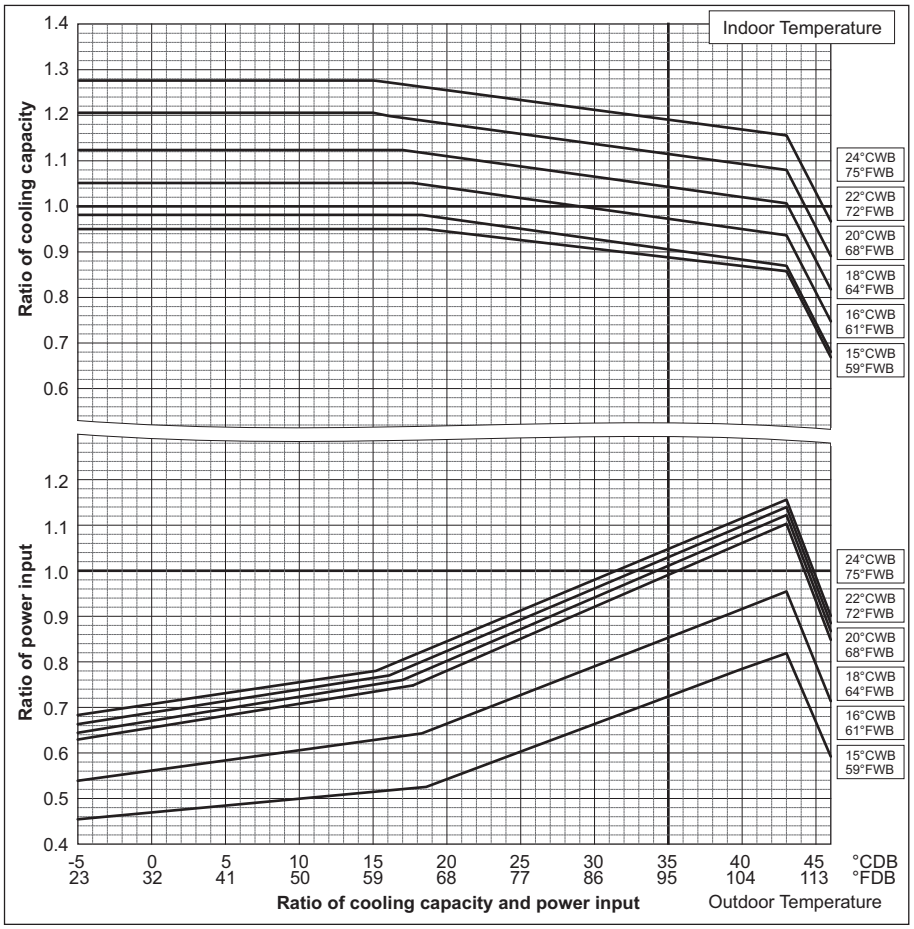
R2(HIGH COP)

PURY-		EP450YSJM-A	EP500YSJM-A
Nominal Cooling Capacity	kW	50.0	56.0
	BTU/h	170,600	191,100
Input	kW	11.99	13.62

PURY-		EP500YSJM-A1	EP550YSJM-A
Nominal Cooling Capacity	kW	56.0	63.0
	BTU/h	191,100	215,000
Input	kW	13.96	15.40

PURY-		EP600YSJM-A	EP600YSJM-A1
Nominal Cooling Capacity	kW	69.0	69.0
	BTU/h	235,400	235,400
Input	kW	16.87	17.82

PURY-		EP650YSJM-A
Nominal Cooling Capacity	kW	73.0
	BTU/h	249,100
Input	kW	19.01

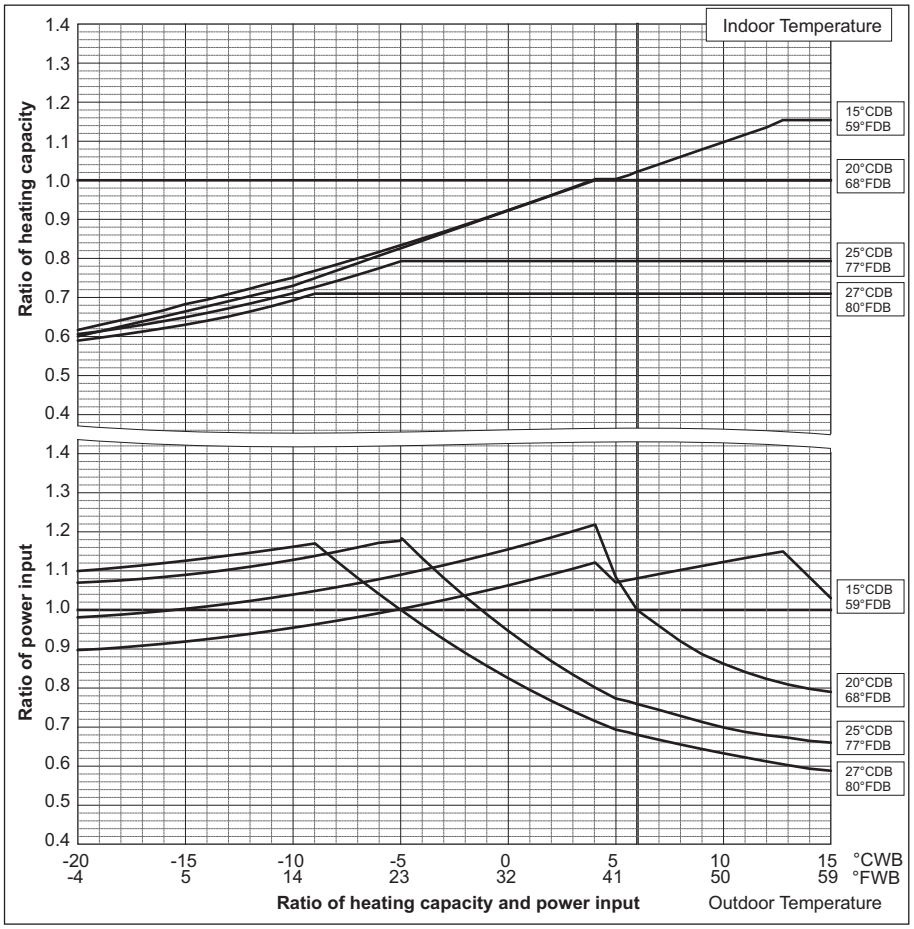


PURY-		EP450YSJM-A	EP500YSJM-A
Nominal Heating Capacity	kW	56.0	63.0
	BTU/h	191,100	215,000
Input	kW	12.87	14.38

PURY-		EP500YSJM-A1	EP550YSJM-A
Nominal Heating Capacity	kW	63.0	69.0
	BTU/h	215,000	235,400
Input	kW	14.78	15.93

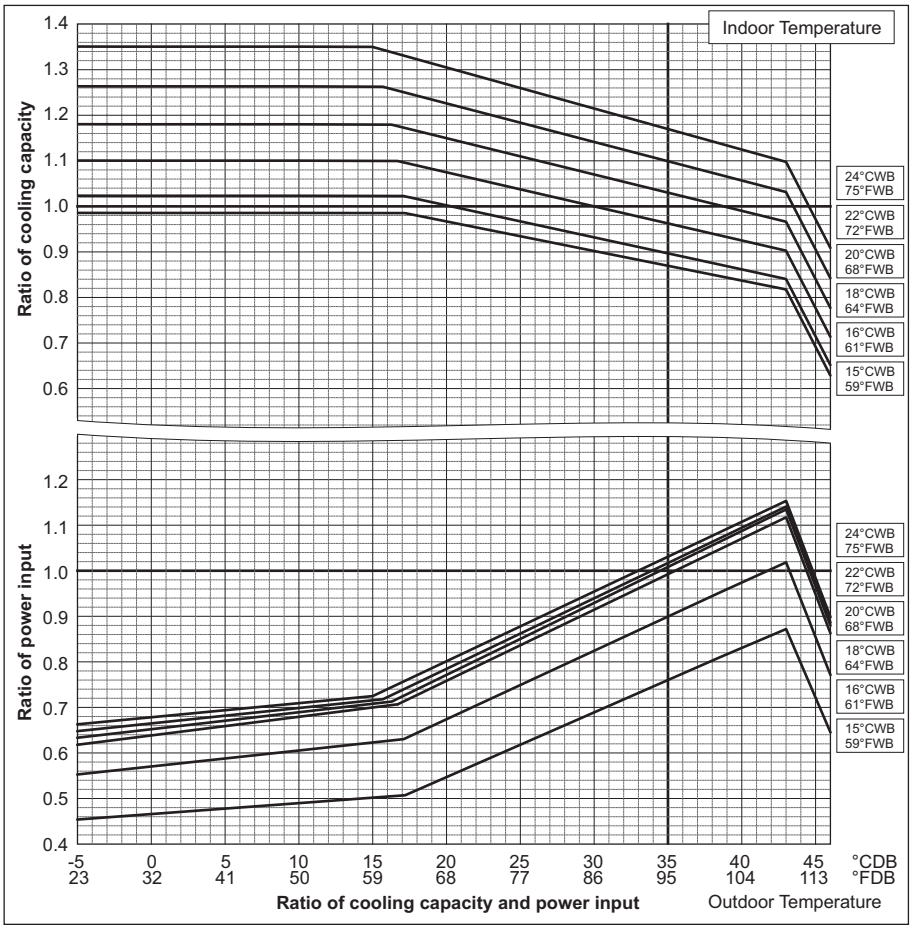
PURY-		EP600YSJM-A	EP600YSJM-A1
Nominal Heating Capacity	kW	76.5	76.5
	BTU/h	261,000	261,000
Input	kW	17.38	18.30

PURY-		EP650YSJM-A
Nominal Heating Capacity	kW	81.5
	BTU/h	278,100
Input	kW	19.73

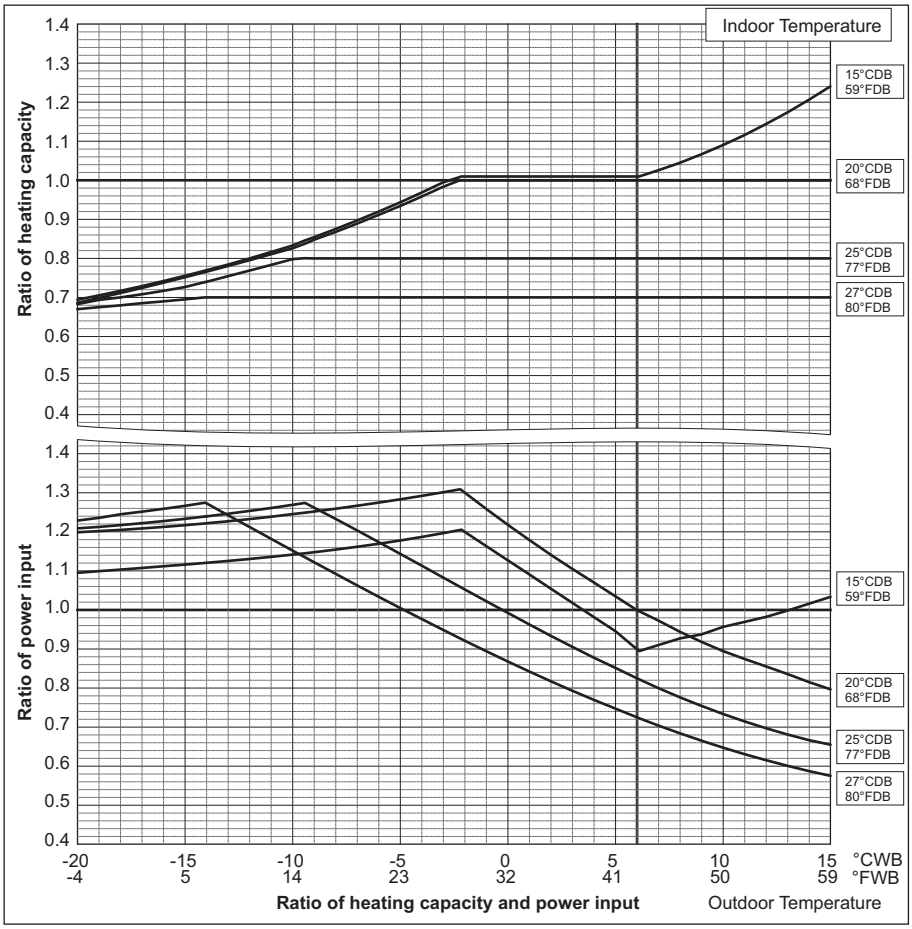


R2(HIGH COP)

PURY-		EP700YSJM-A
Nominal Cooling Capacity	kW	80.0
	BTU/h	273,000
Input	kW	21.22



PURY-		EP700YSJM-A
Nominal Heating Capacity	kW	88.0
	BTU/h	300,300
Input	kW	22.05



R2(HIGH COP)

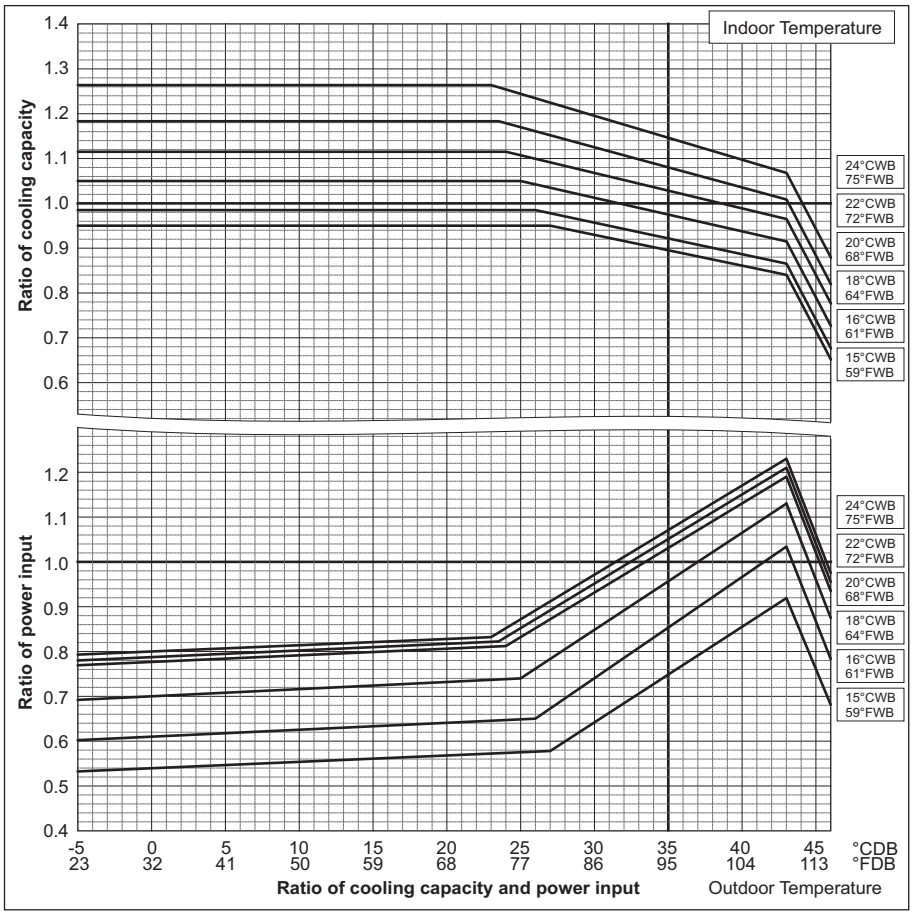
Correction by temperature (COP Priority Mode)

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.

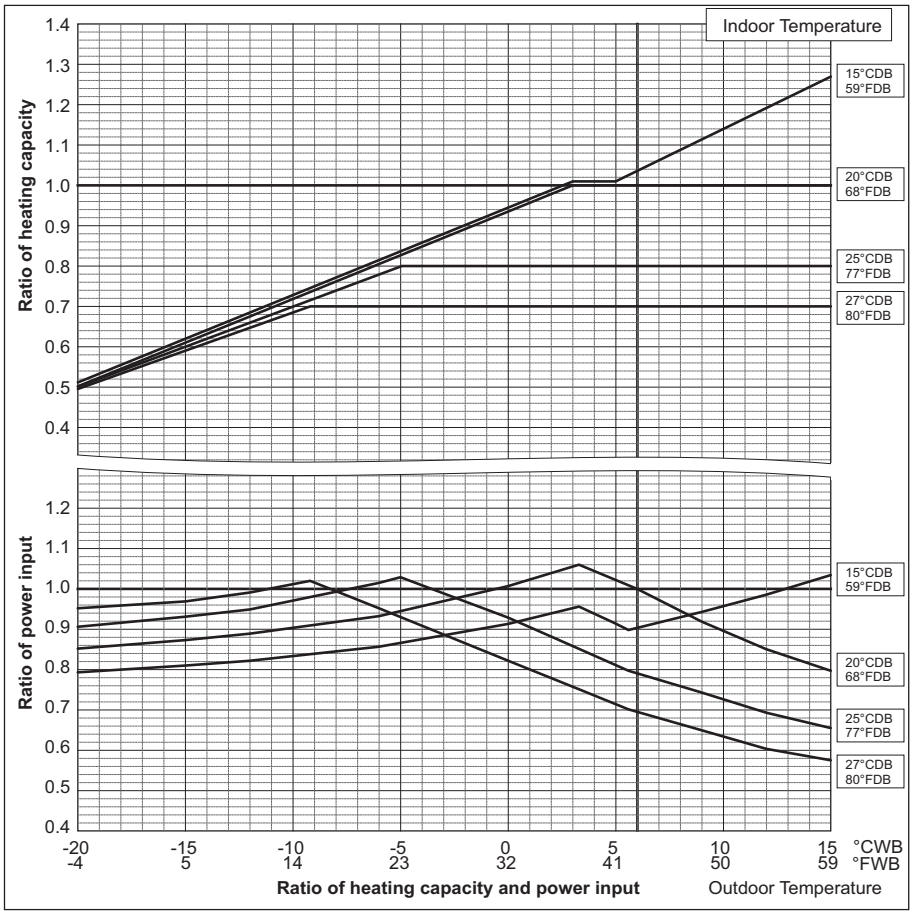
To select COP priority mode, DipSW 3-7 must be set to ON.

PURY-		EP200YJM-A	EP250YJM-A
Nominal Cooling Capacity	kW	22.4	28.0
	BTU/h	76,400	95,500
Input	kW	5.07	6.76

(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



PURY-		EP200YJM-A	EP250YJM-A
Nominal Heating Capacity	kW	25.0	31.5
	BTU/h	85,300	107,500
Input	kW	5.56	7.15



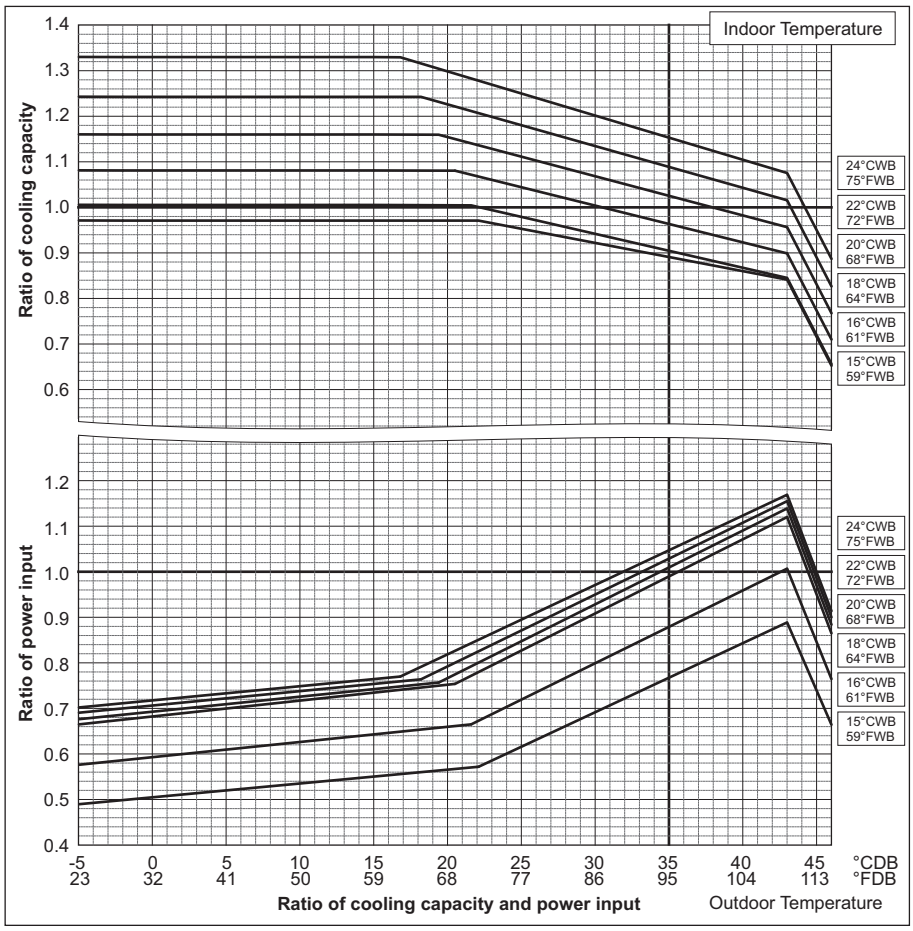
R2(HIGH COP)

6. CAPACITY TABLES

PURY-		EP300YJM-A	EP350YJM-A
Nominal Cooling Capacity	kW	33.5	40.0
	BTU/h	114,300	136,500
Input	kW	8.25	10.28

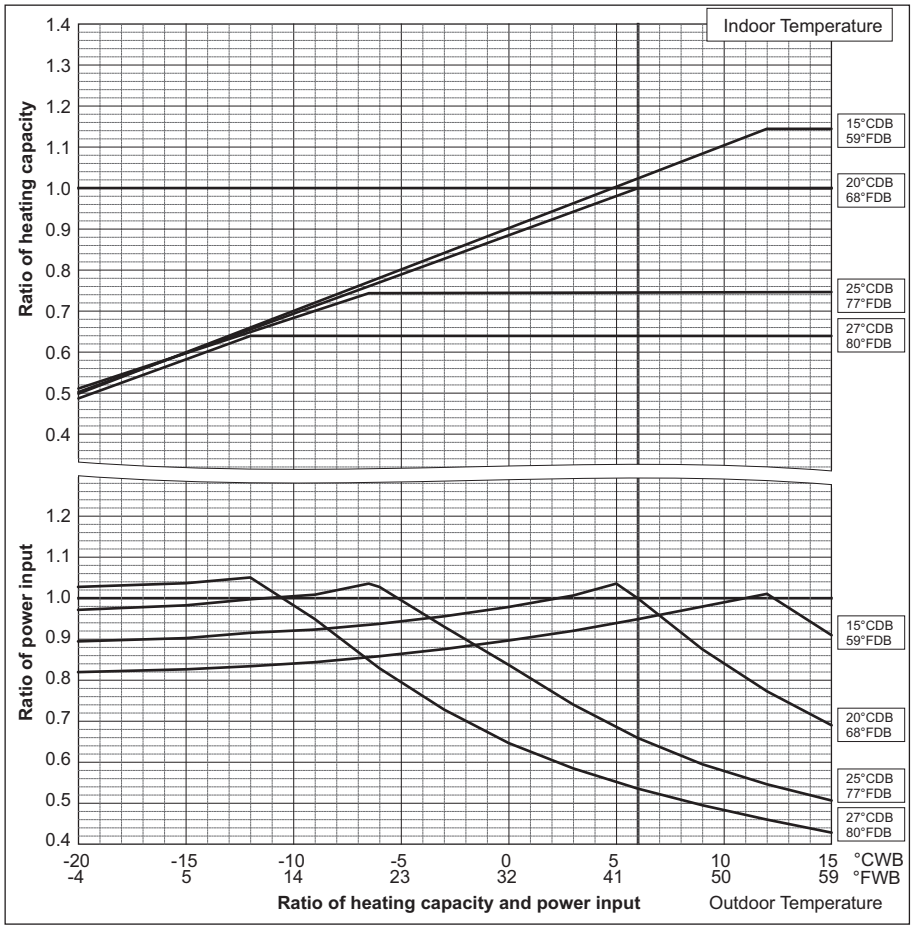
PURY-		EP400YSJM-A
Nominal Cooling Capacity	kW	45.0
	BTU/h	153,500
Input	kW	10.41

(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



PURY-		EP300YJM-A	EP350YJM-A
Nominal Heating Capacity	kW	37.5	45.0
	BTU/h	128,000	153,500
Input	kW	8.60	10.58

PURY-		EP400YSJM-A
Nominal Heating Capacity	kW	50.0
	BTU/h	170,600
Input	kW	11.36



R2(HIGH COP)

6. CAPACITY TABLES

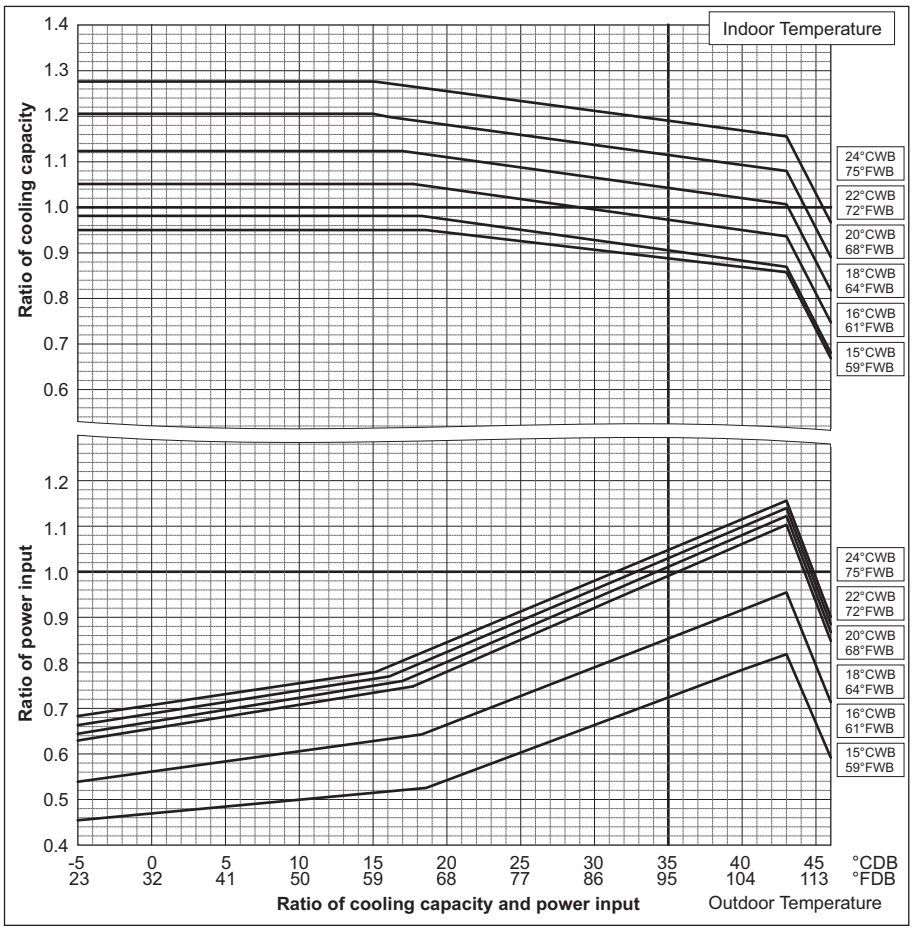
PURY-		EP450YSJM-A	EP500YSJM-A
Nominal Cooling Capacity	kW	50.0	56.0
	BTU/h	170,600	191,100
Input	kW	11.99	13.62

PURY-		EP500YSJM-A1	EP550YSJM-A
Nominal Cooling Capacity	kW	56.0	63.0
	BTU/h	191,100	215,000
Input	kW	13.96	15.40

PURY-		EP600YSJM-A	EP600YSJM-A1
Nominal Cooling Capacity	kW	69.0	69.0
	BTU/h	235,400	235,400
Input	kW	16.87	17.82

PURY-		EP650YSJM-A
Nominal Cooling Capacity	kW	73.0
	BTU/h	249,100
Input	kW	19.01

(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



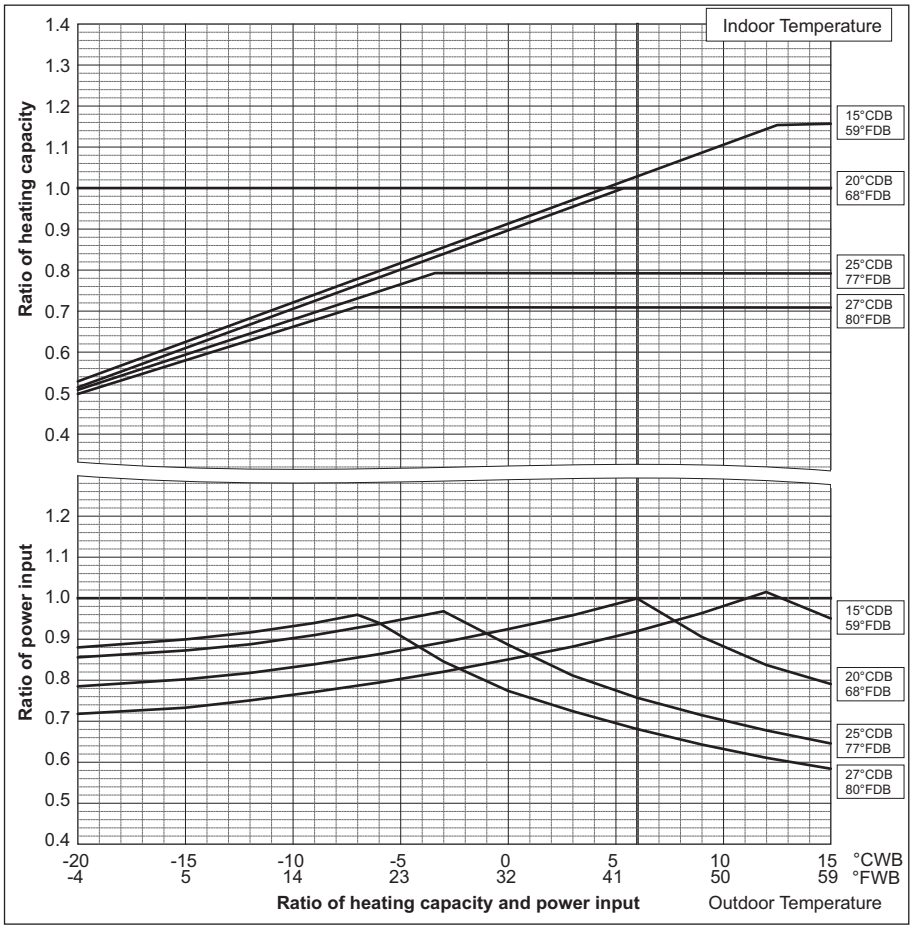
R2(HIGH COP)

PURY-		EP450YSJM-A	EP500YSJM-A
Nominal Heating Capacity	kW	56.0	63.0
	BTU/h	191,100	215,000
Input	kW	12.87	14.38

PURY-		EP500YSJM-A1	EP550YSJM-A
Nominal Heating Capacity	kW	63.0	69.0
	BTU/h	215,000	235,400
Input	kW	14.78	15.93

PURY-		EP600YSJM-A	EP600YSJM-A1
Nominal Heating Capacity	kW	76.5	76.5
	BTU/h	261,000	261,000
Input	kW	17.38	18.30

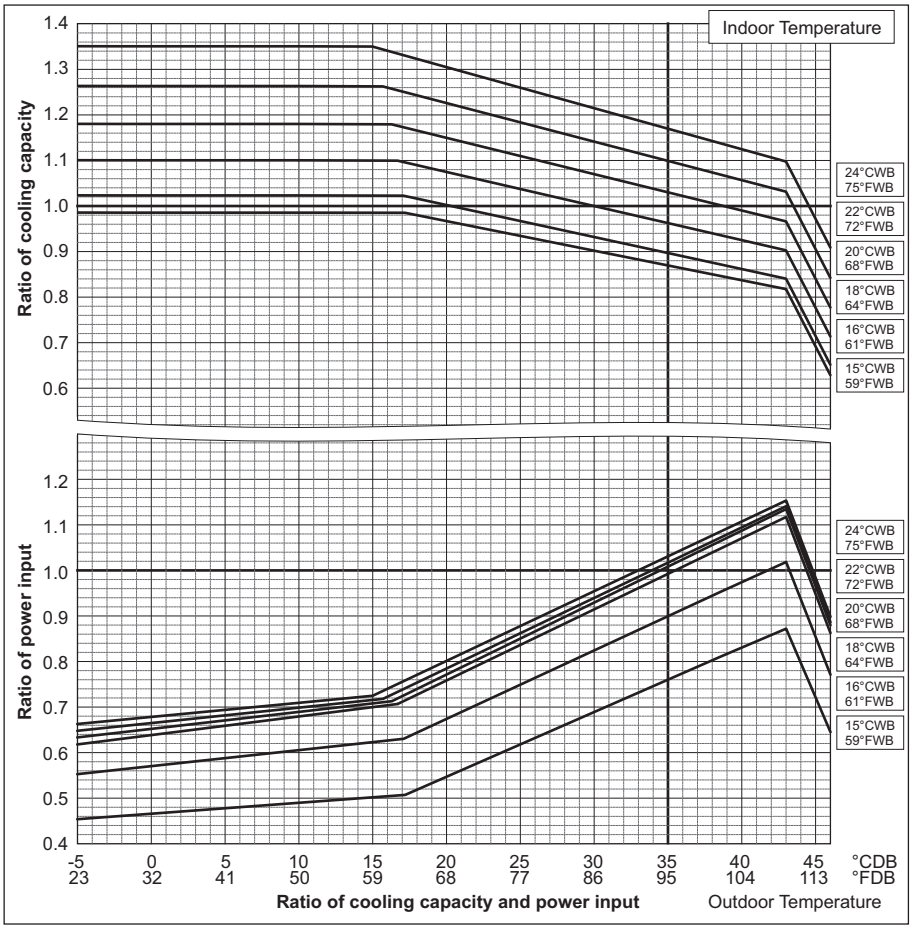
PURY-		EP650YSJM-A
Nominal Heating Capacity	kW	81.5
	BTU/h	278,100
Input	kW	19.73



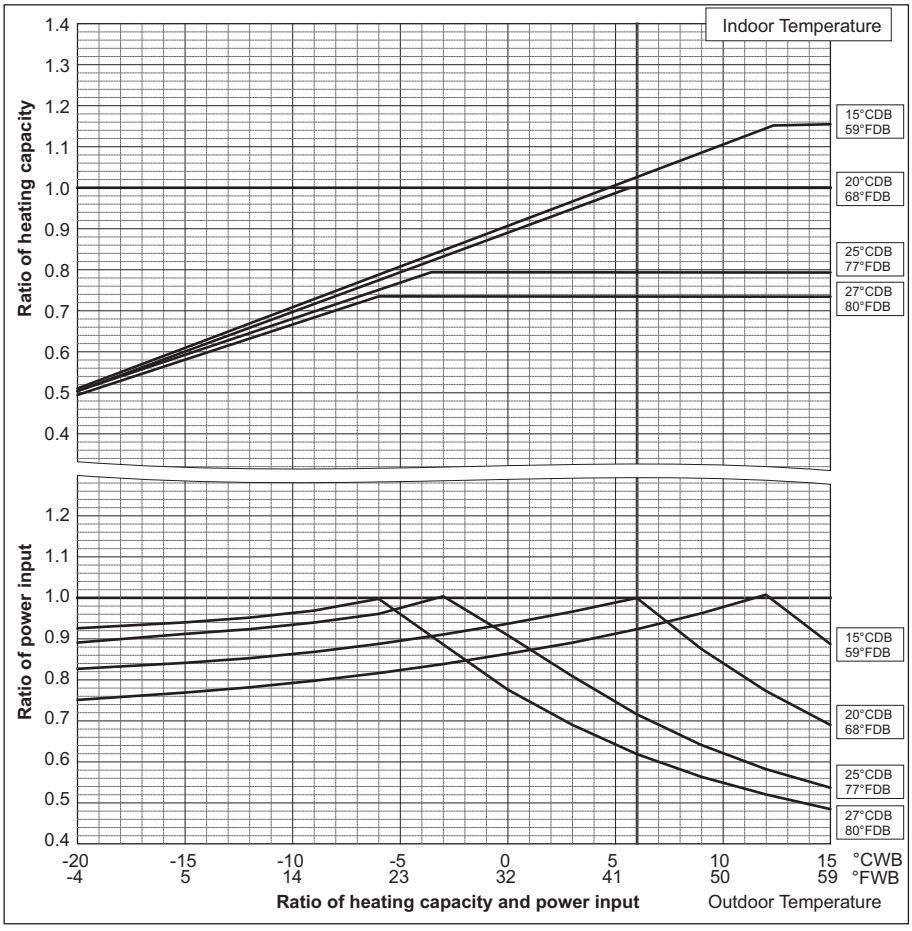
6. CAPACITY TABLES

PURY-		EP700YSJM-A
Nominal Cooling Capacity	kW	80.0
	BTU/h	273,000
Input	kW	21.22

(There is no difference in cooling performance between Standard Mode and COP Priority Mode.)



PURY-		EP700YSJM-A
Nominal Heating Capacity	kW	88.0
	BTU/h	300,300
Input	kW	22.05



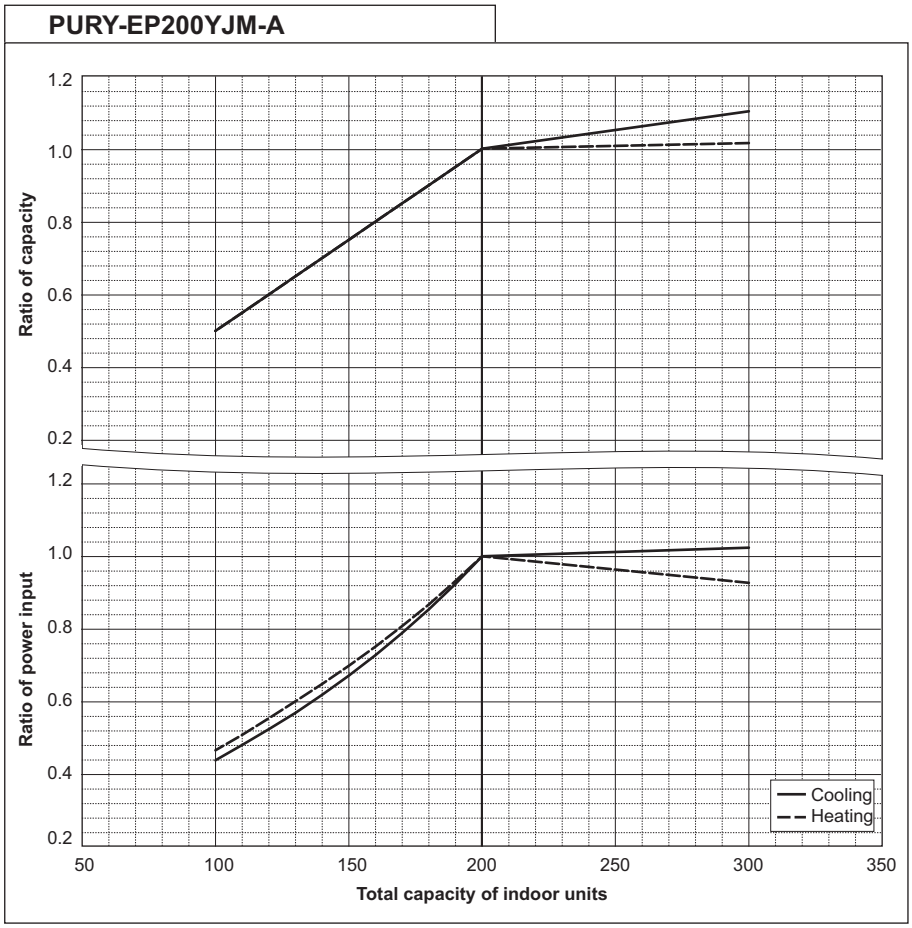
R2(HIGH COP)

6-2. Correction by total indoor

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

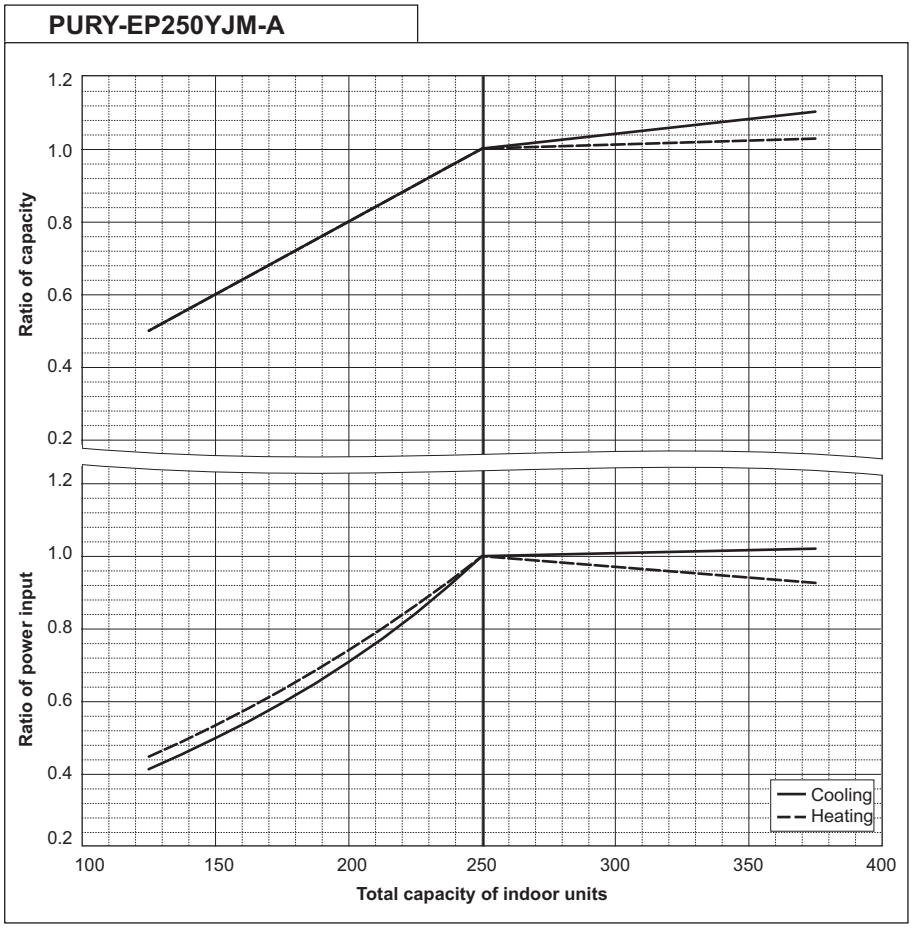
PURY-EP200YJM-A		
Nominal Cooling Capacity	kW	22.4
	BTU/h	76,400
Input	kW	5.07

PURY-EP200YJM-A		
Nominal Heating Capacity	kW	25.0
	BTU/h	85,300
Input	kW	5.56



PURY-EP250YJM-A		
Nominal Cooling Capacity	kW	28.0
	BTU/h	95,500
Input	kW	6.76

PURY-EP250YJM-A		
Nominal Heating Capacity	kW	31.5
	BTU/h	107,500
Input	kW	7.15

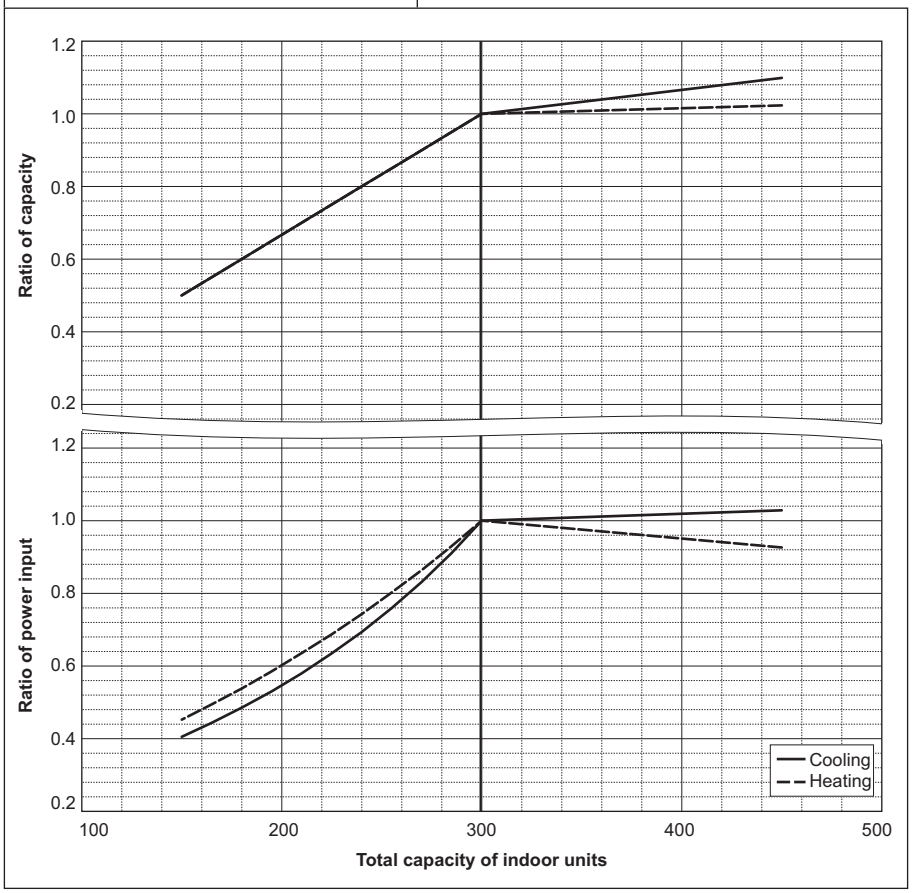


R2(HIGH COP)

PURY-EP300YJM-A		
Nominal Cooling Capacity	kW	33.5
	BTU/h	114,300
Input	kW	8.25

PURY-EP300YJM-A		
Nominal Heating Capacity	kW	37.5
	BTU/h	128,000
Input	kW	8.60

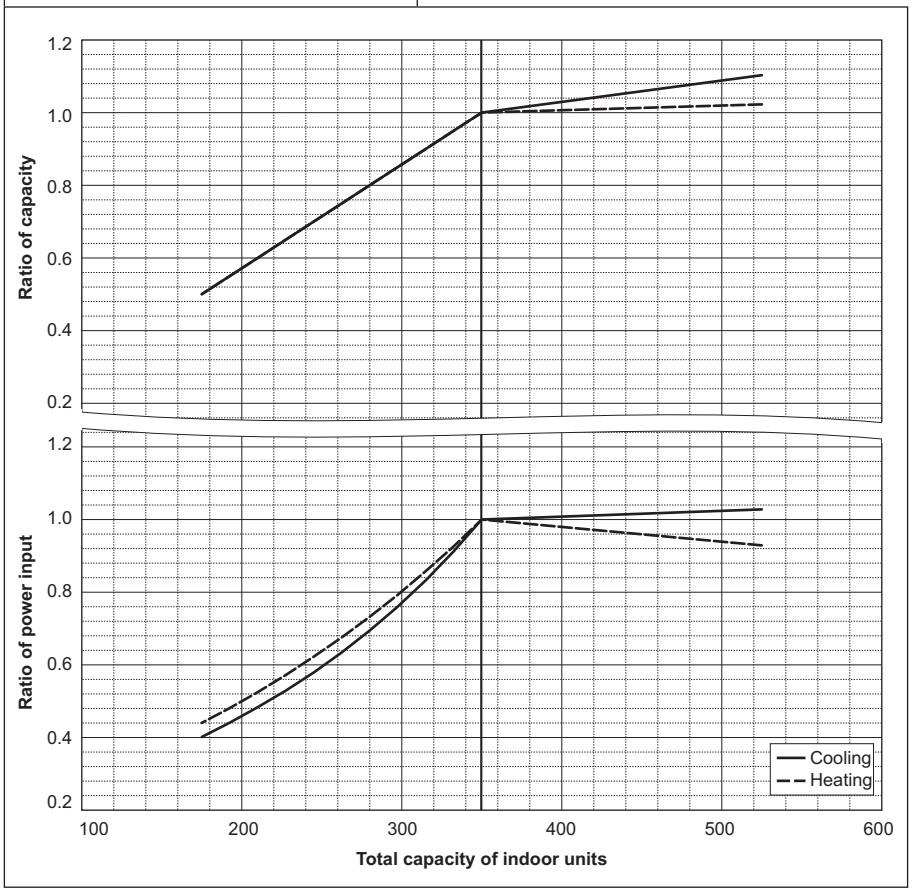
PURY-EP300YJM-A



PURY-EP350YJM-A		
Nominal Cooling Capacity	kW	40.0
	BTU/h	136,500
Input	kW	10.28

PURY-EP350YJM-A		
Nominal Heating Capacity	kW	45.0
	BTU/h	153,500
Input	kW	10.58

PURY-EP350YJM-A

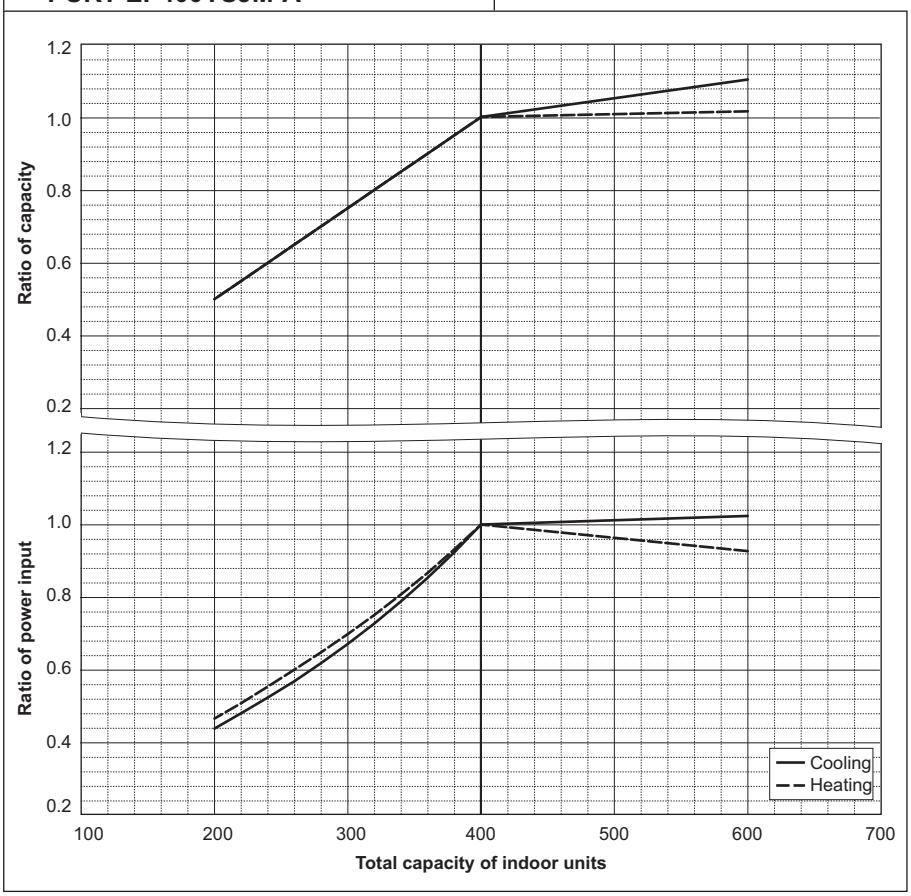


R2(HIGH COP)

PURY-EP400YSJM-A		
Nominal Cooling Capacity	kW	45.0
	BTU/h	153,500
Input	kW	10.41

PURY-EP400YSJM-A		
Nominal Heating Capacity	kW	50.0
	BTU/h	170,600
Input	kW	11.36

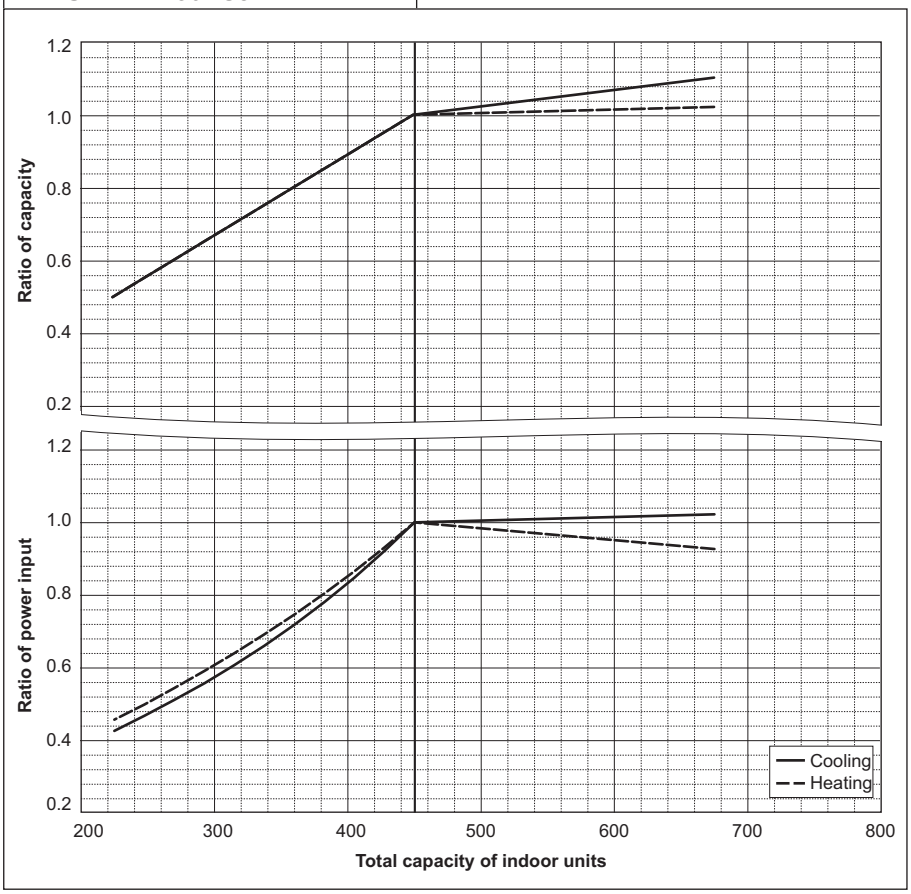
PURY-EP400YSJM-A



PURY-EP450YSJM-A		
Nominal Cooling Capacity	kW	50.0
	BTU/h	170,600
Input	kW	11.99

PURY-EP450YSJM-A		
Nominal Heating Capacity	kW	56.0
	BTU/h	191,100
Input	kW	12.87

PURY-EP450YSJM-A

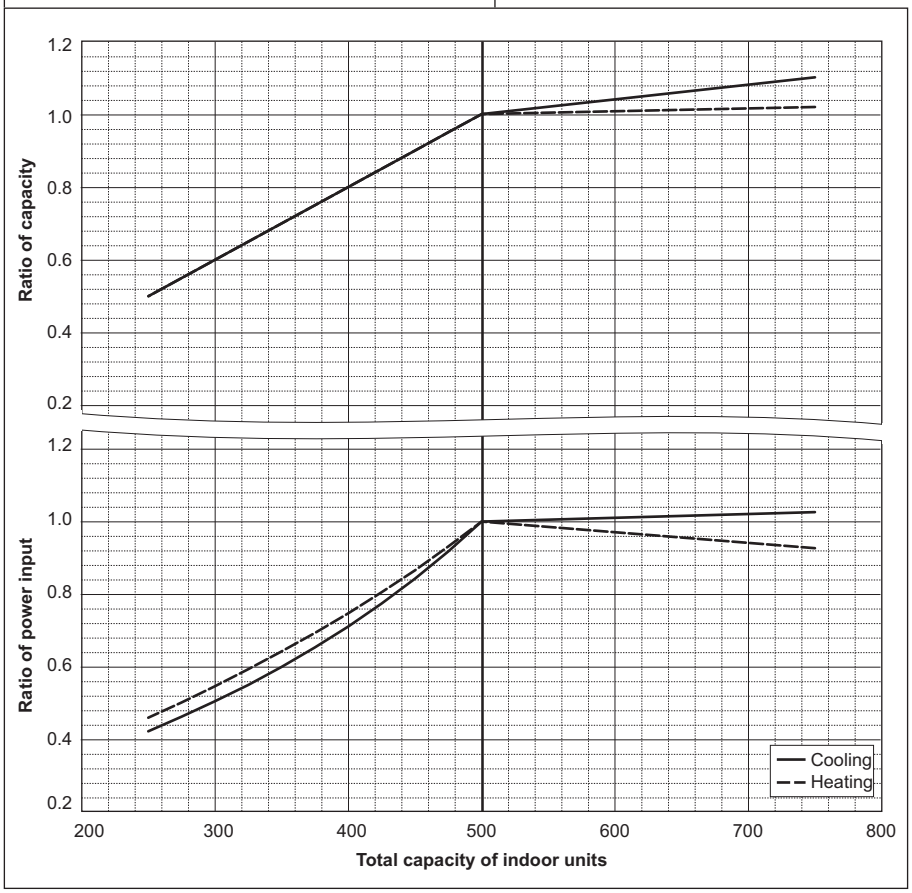


R2(HIGH COP)

PURY-EP500YSJM-A		
Nominal Cooling Capacity	kW	56.0
	BTU/h	191,100
Input	kW	13.62

PURY-EP500YSJM-A		
Nominal Heating Capacity	kW	63.0
	BTU/h	215,000
Input	kW	14.38

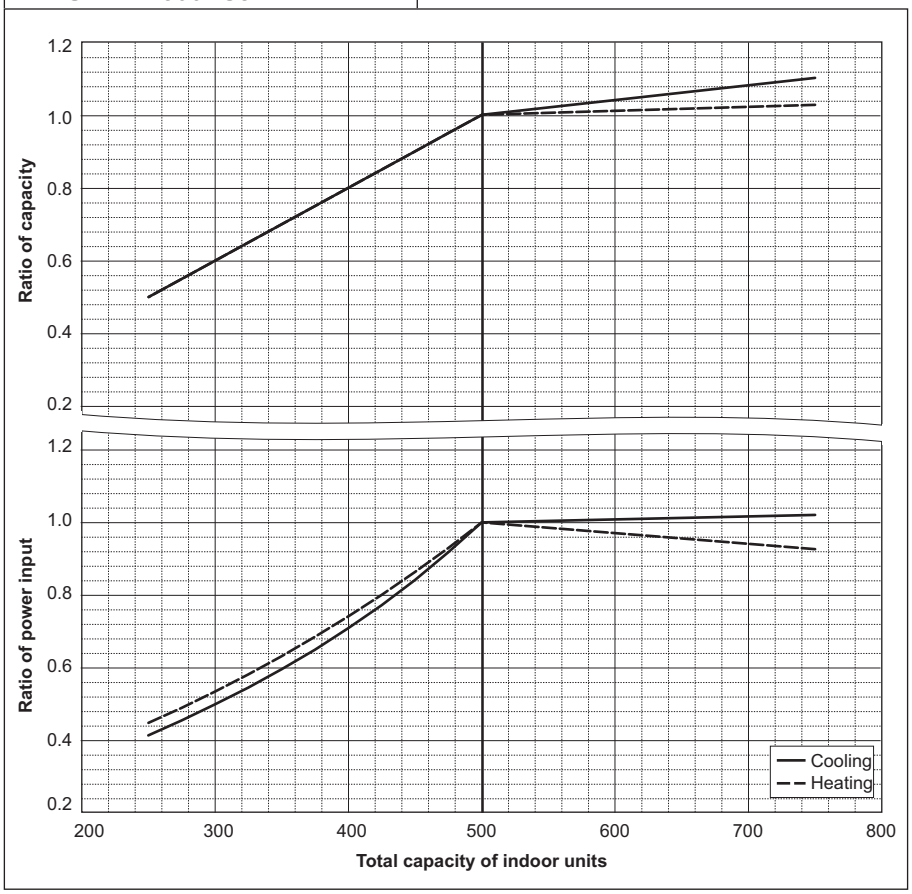
PURY-EP500YSJM-A



PURY-EP500YSJM-A1		
Nominal Cooling Capacity	kW	56.0
	BTU/h	191,100
Input	kW	13.96

PURY-EP500YSJM-A1		
Nominal Heating Capacity	kW	63.0
	BTU/h	215,000
Input	kW	14.78

PURY-EP500YSJM-A1

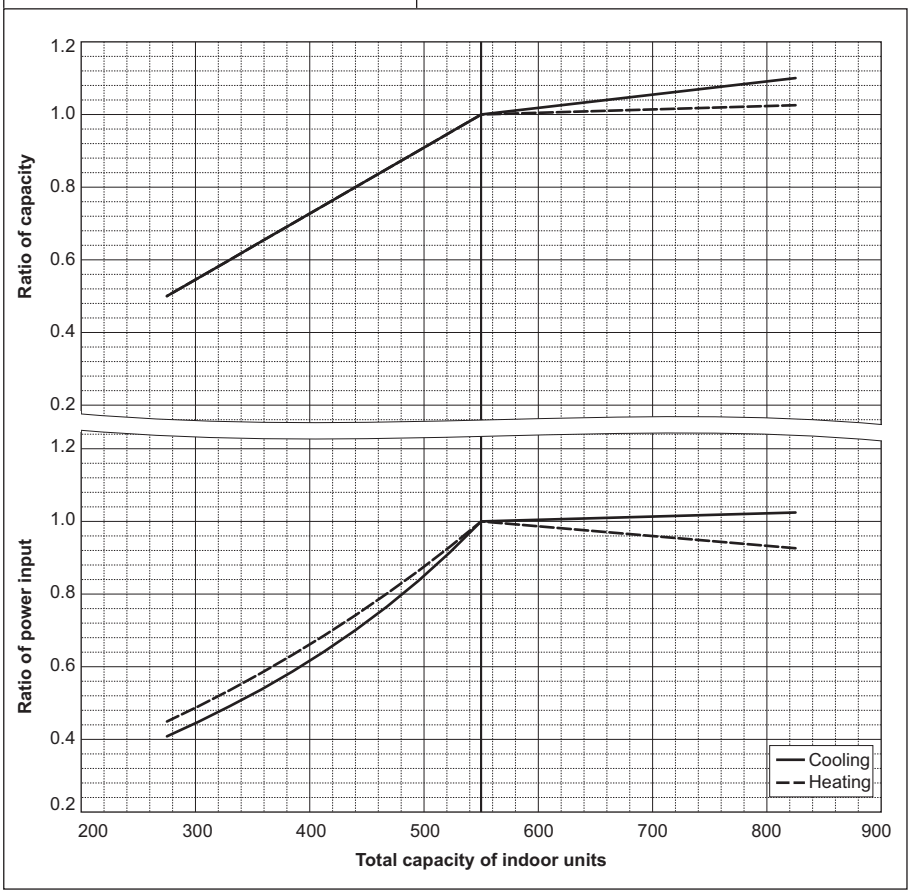


R2(HIGH COP)

PURY-EP550YSJM-A		
Nominal Cooling Capacity	kW	63.0
	BTU/h	215,000
Input	kW	15.40

PURY-EP550YSJM-A		
Nominal Heating Capacity	kW	69.0
	BTU/h	235,400
Input	kW	15.93

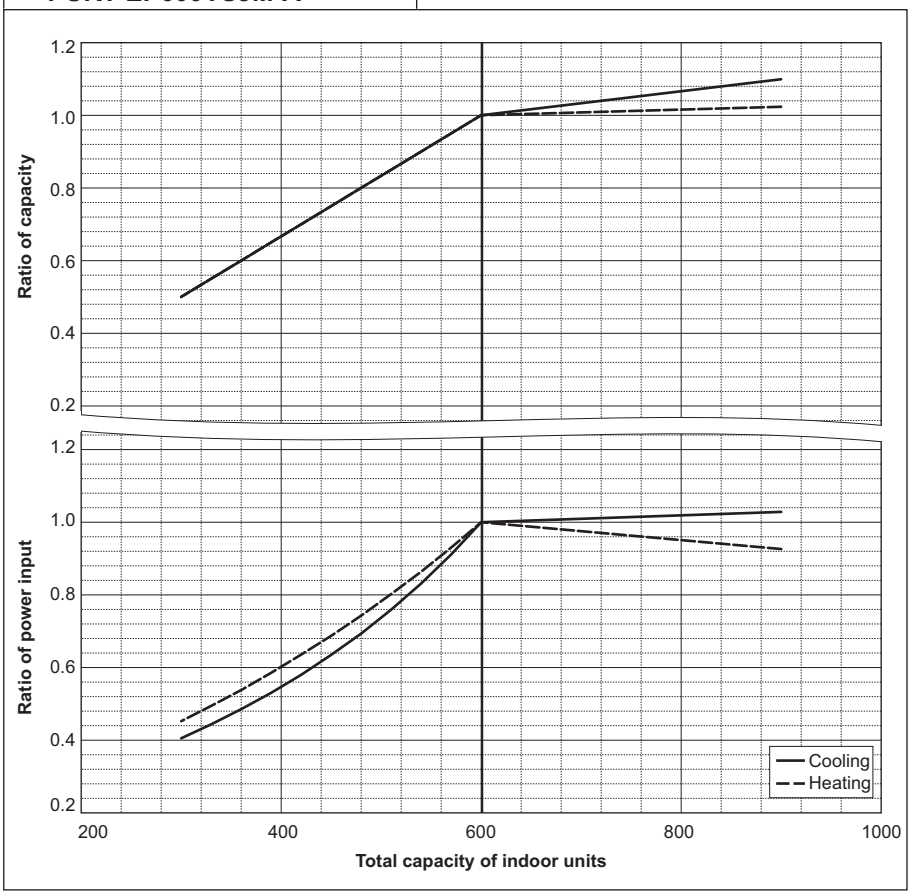
PURY-EP550YSJM-A



PURY-EP600YSJM-A		
Nominal Cooling Capacity	kW	69.0
	BTU/h	235,400
Input	kW	16.87

PURY-EP600YSJM-A		
Nominal Heating Capacity	kW	76.5
	BTU/h	261,000
Input	kW	17.38

PURY-EP600YSJM-A

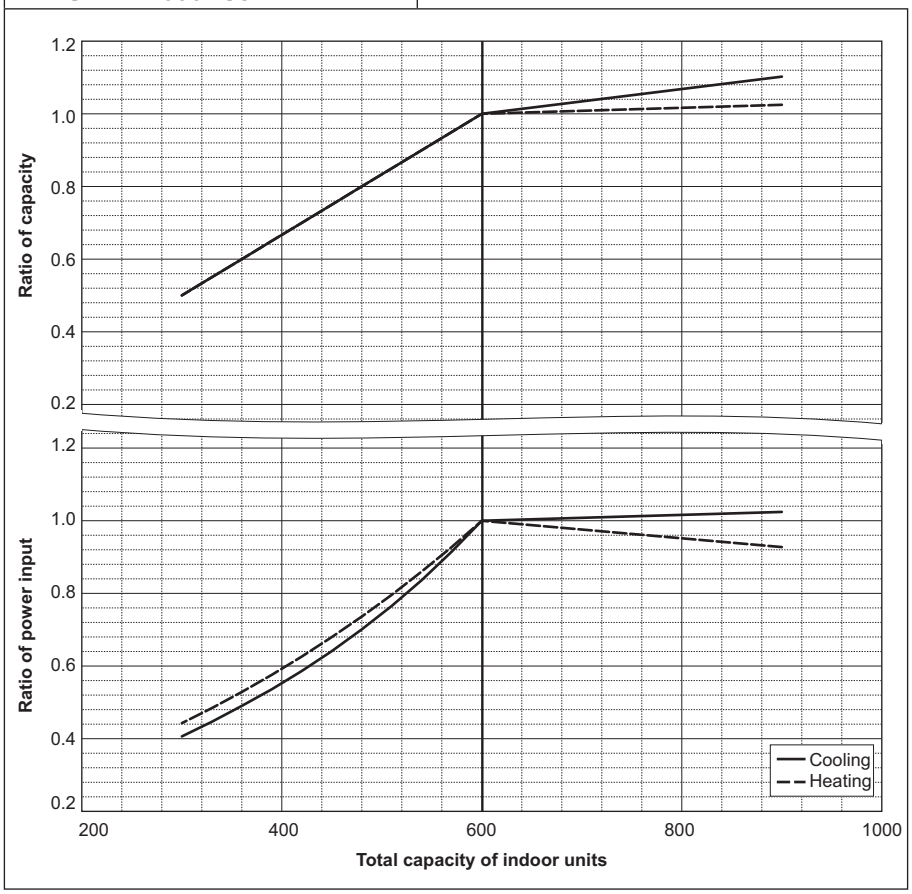


R2(HIGH COP)

PURY-EP600YSJM-A1		
Nominal Cooling Capacity	kW	69.0
	BTU/h	235,400
Input	kW	17.82

PURY-EP600YSJM-A1		
Nominal Heating Capacity	kW	76.5
	BTU/h	261,000
Input	kW	18.30

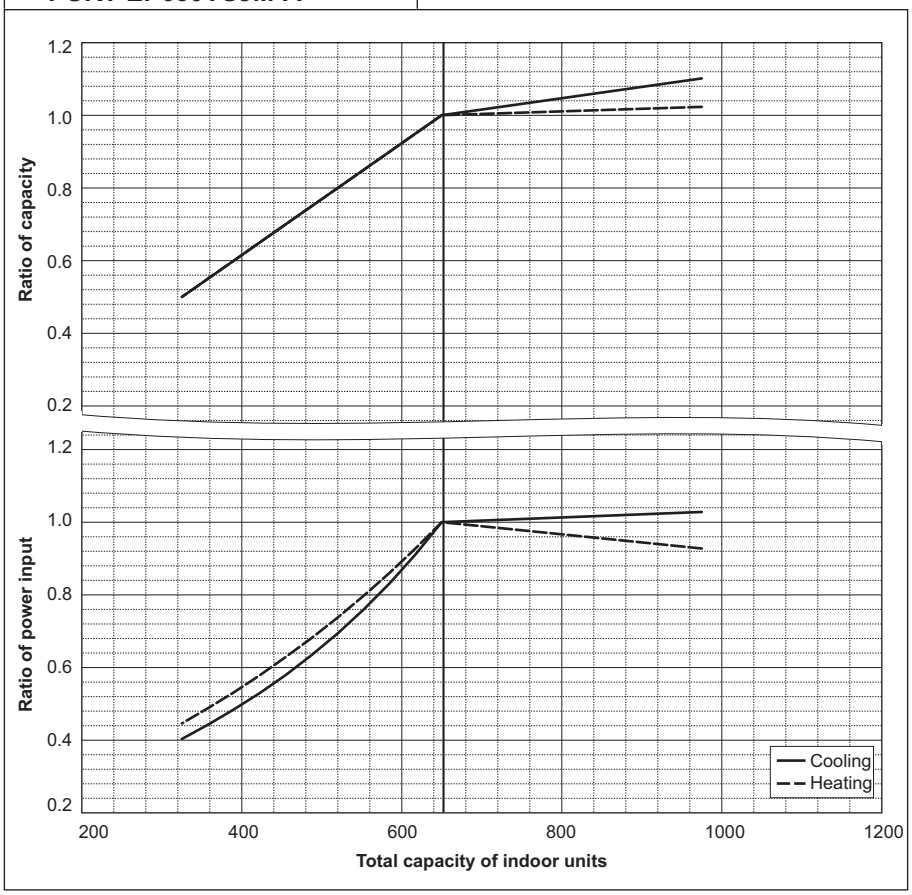
PURY-EP600YSJM-A1



PURY-EP650YSJM-A		
Nominal Cooling Capacity	kW	73.0
	BTU/h	249,100
Input	kW	19.01

PURY-EP650YSJM-A		
Nominal Heating Capacity	kW	81.5
	BTU/h	278,100
Input	kW	19.73

PURY-EP650YSJM-A

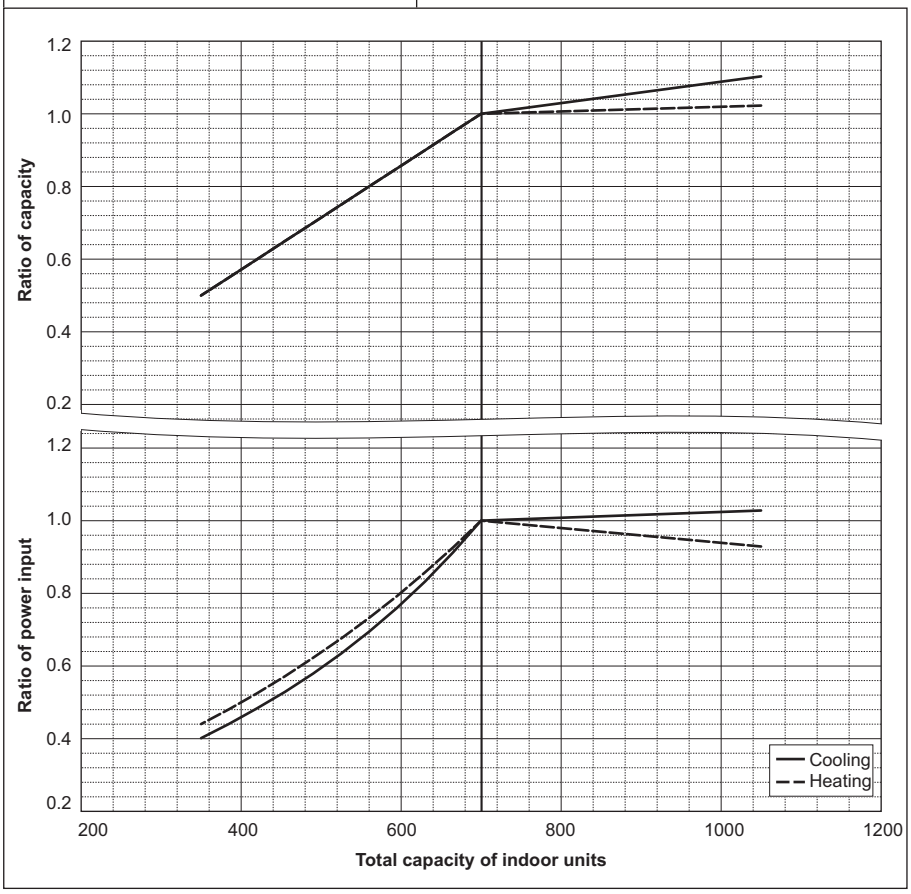


R2(HIGH COP)

PURY-EP700YSJM-A		
Nominal Cooling Capacity	kW	80.0
	BTU/h	273,000
Input	kW	21.22

PURY-EP700YSJM-A		
Nominal Heating Capacity	kW	88.0
	BTU/h	300,300
Input	kW	22.05

PURY-EP700YSJM-A



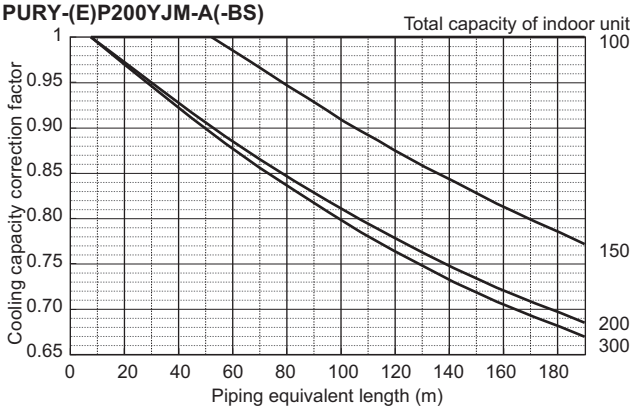
R2(HIGH COP)

6-3. Correction by refrigerant piping length

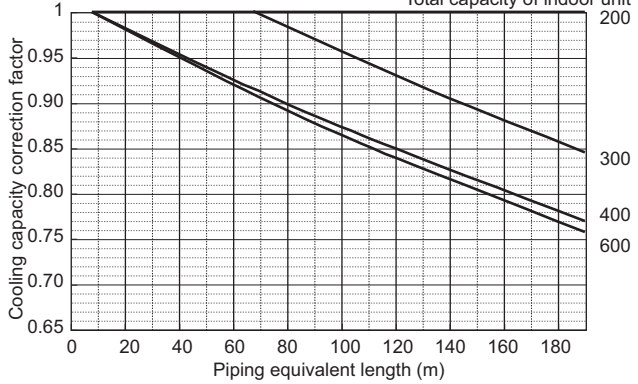
CITY MULTI system can extend the piping flexibly within its limitation for the actual situation. Yet, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 6-3-1 and 6-3-2, the capacity can be observed. 6-3-3 shows how to obtain the equivalent length of piping.

6-3-1. Cooling capacity correction

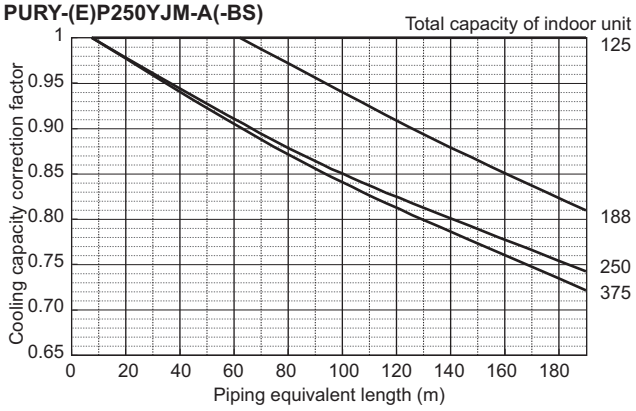
PURY-(E)P200YJM-A(-BS)



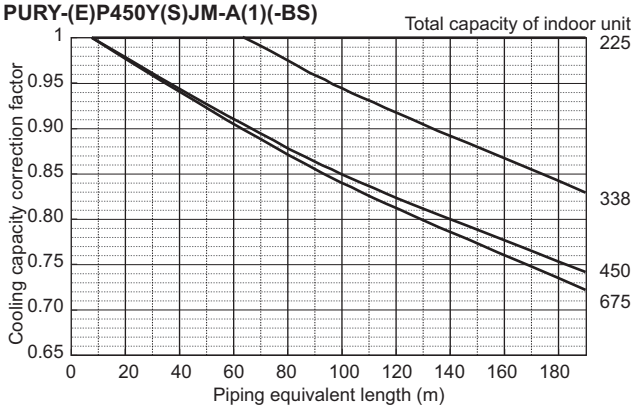
PURY-(E)P400Y(S)JM-A(1)(-BS)



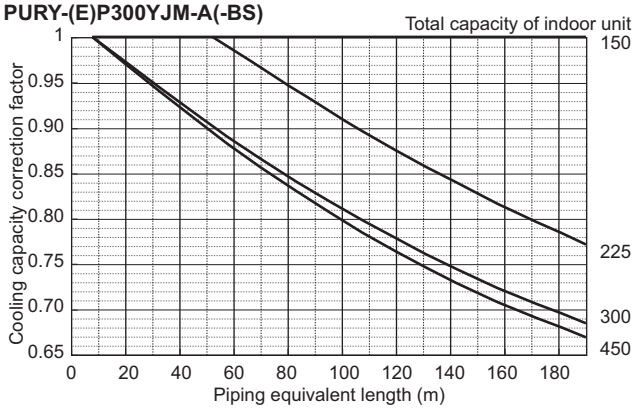
PURY-(E)P250YJM-A(-BS)



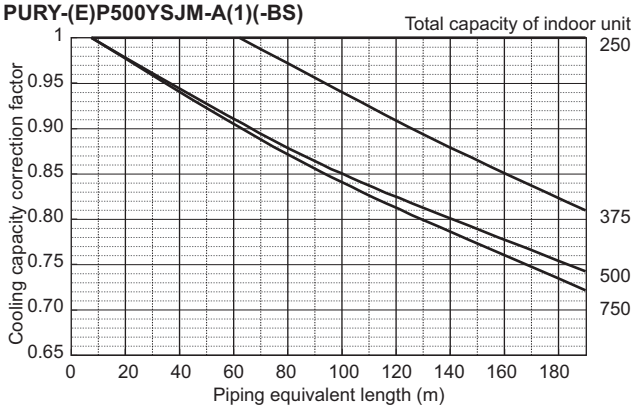
PURY-(E)P450Y(S)JM-A(1)(-BS)



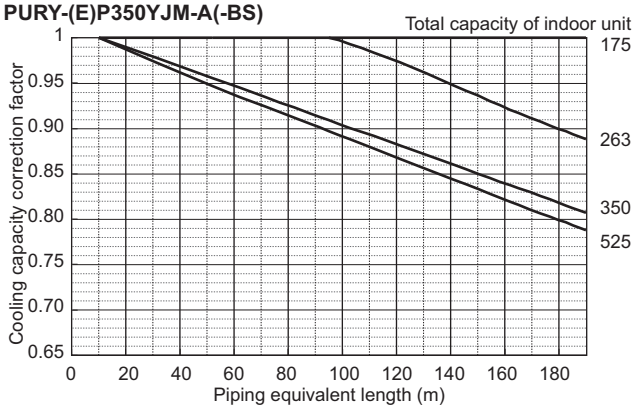
PURY-(E)P300YJM-A(-BS)



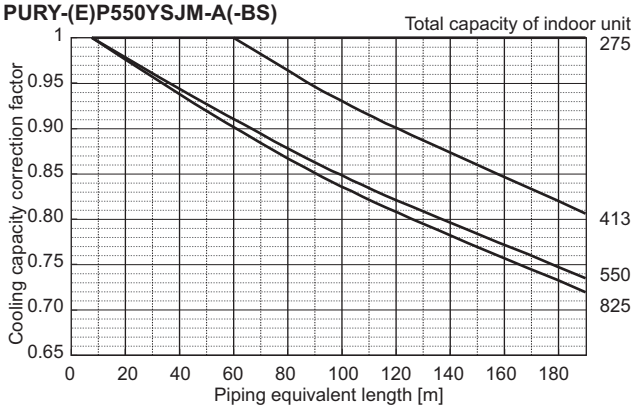
PURY-(E)P500YSJM-A(1)(-BS)



PURY-(E)P350YJM-A(-BS)

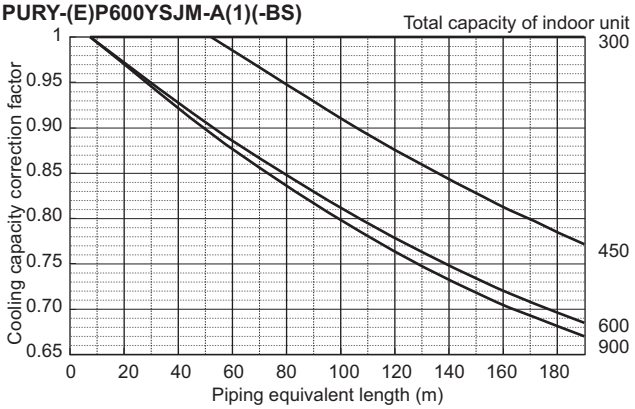


PURY-(E)P550YSJM-A(-BS)

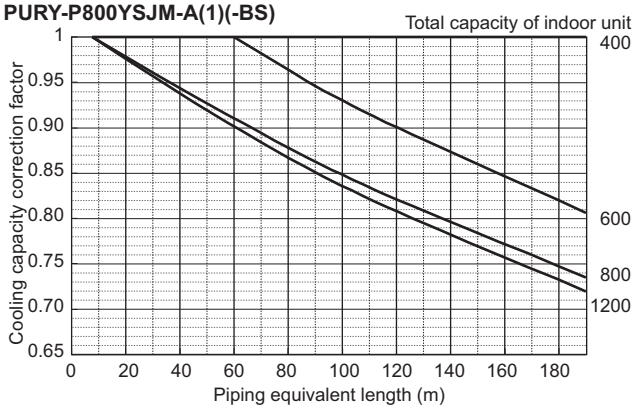


R2(HIGH COP)

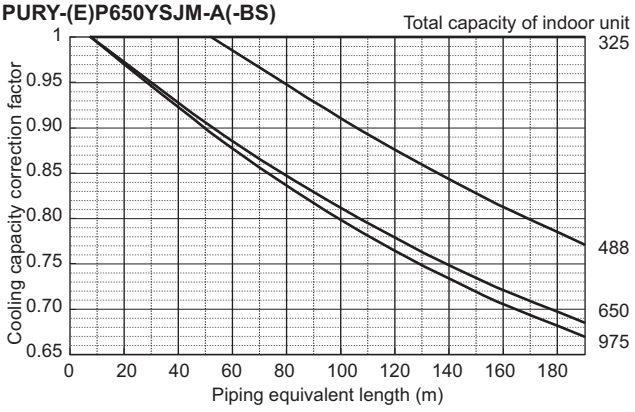
PURY-(E)P600YSJM-A(1)(-BS)



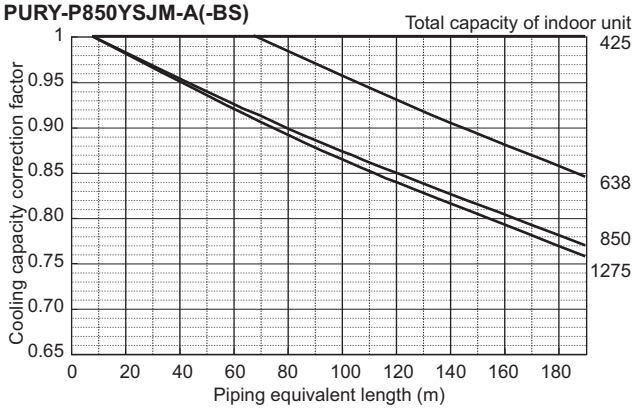
PURY-P800YSJM-A(1)(-BS)



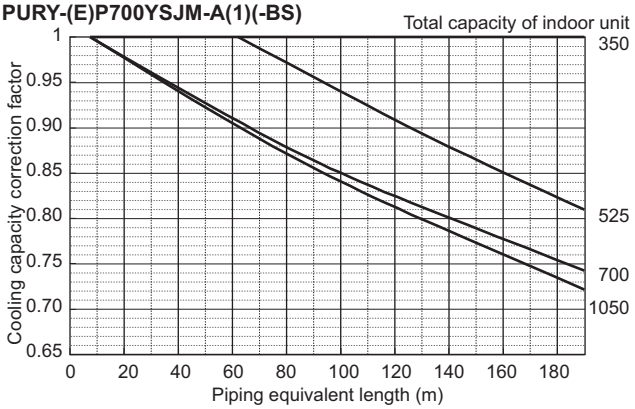
PURY-(E)P650YSJM-A(-BS)



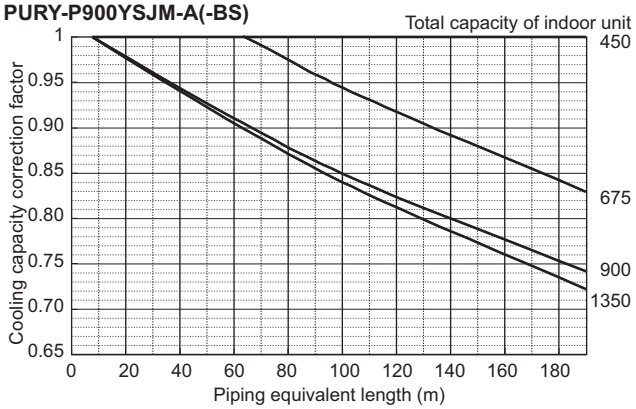
PURY-P850YSJM-A(-BS)



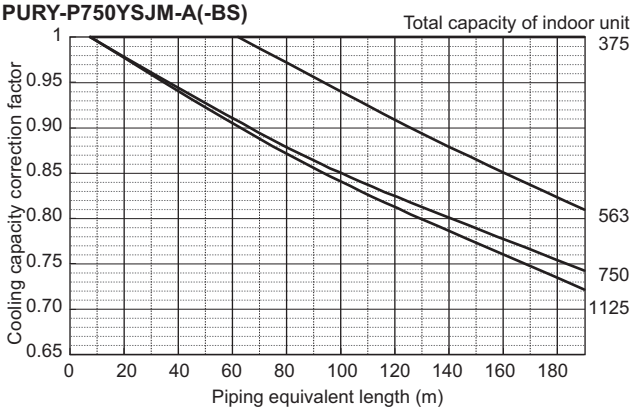
PURY-(E)P700YSJM-A(1)(-BS)



PURY-P900YSJM-A(-BS)



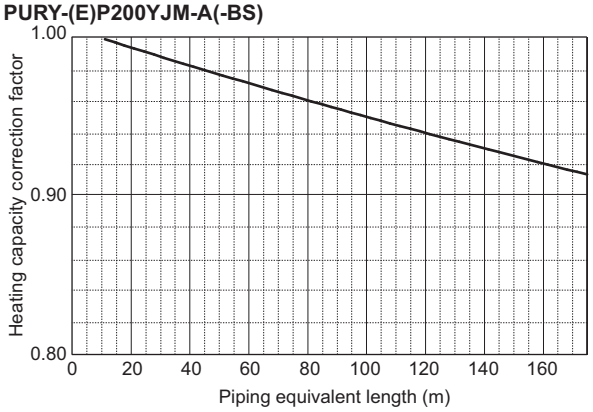
PURY-P750YSJM-A(-BS)



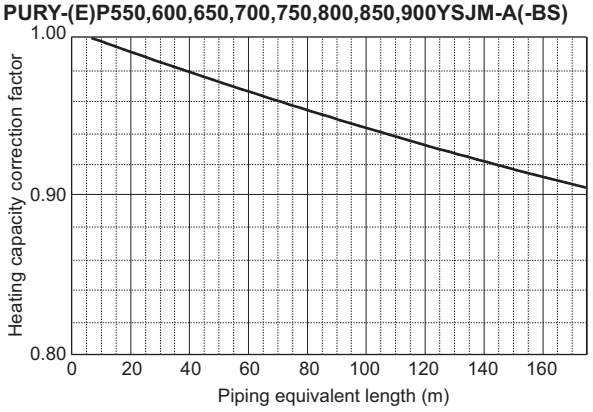
R2(HIGH COP)

6-3-2. Heating capacity correction

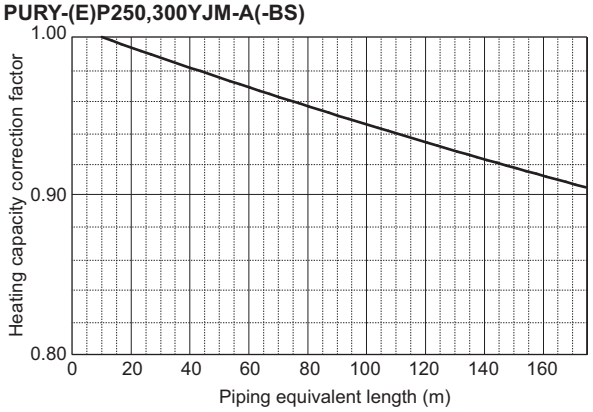
PURY-(E)P200YJM-A(-BS)



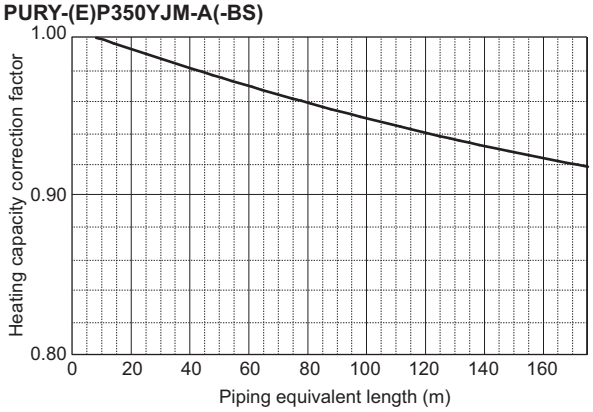
PURY-(E)P550,600,650,700,750,800,850,900YSJM-A(-BS)



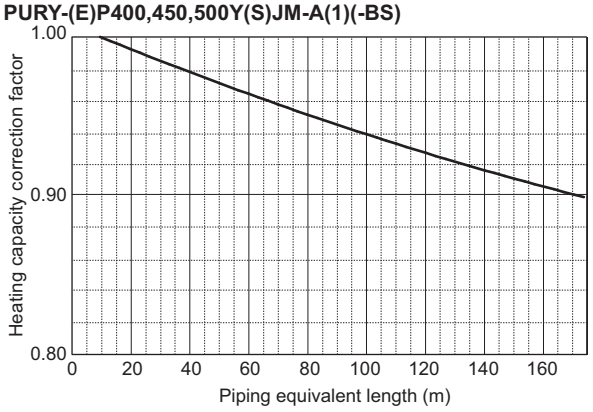
PURY-(E)P250,300YJM-A(-BS)



PURY-(E)P350YJM-A(-BS)



PURY-(E)P400,450,500Y(S)JM-A(1)(-BS)



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

1 **PURY-(E)P200YJM-A(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bends in the piping) m

2 **PURY-(E)P250,300YJM-A(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bends in the piping) m

3 **PURY-(E)P350YJM-A(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bends in the piping) m

4 **PURY-(E)P400,450,500,550,600,650Y(S)JM-A(1)(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bends in the piping) m

5 **PURY-(E)P700,750,800YSJM-A(1)(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 x number of bends in the piping) m

6 **PURY-P850,900YSJM-A(-BS)**
Equivalent length = (Actual piping length to the farthest indoor unit) + (0.80 x number of bends in the piping) m

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

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

6-5. Correction at frost and defrost

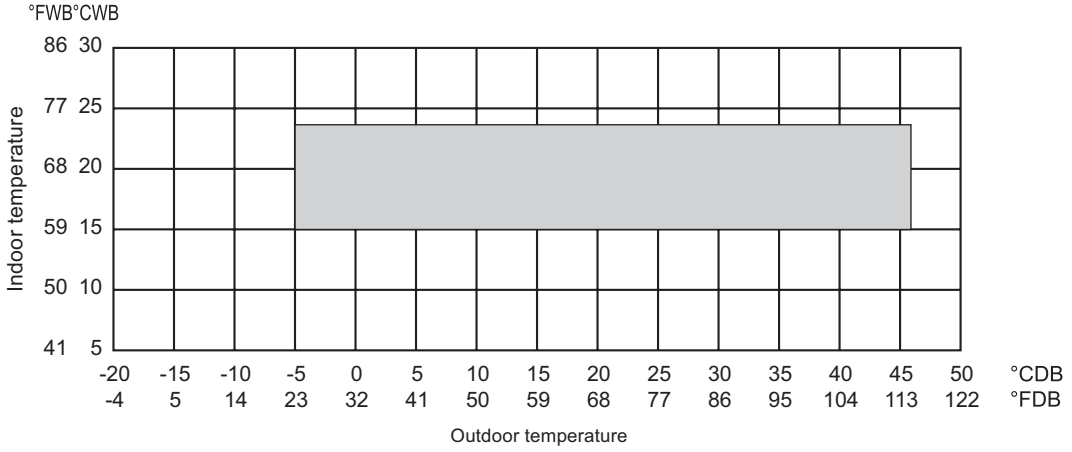
Due to frost at the outdoor heat exchanger and the automatic defrost operation, the heating capacity of the outdoor unit can be calculated by multiplying the correction factor shown in the table below.

Table of correction factor at frosting and defrosting

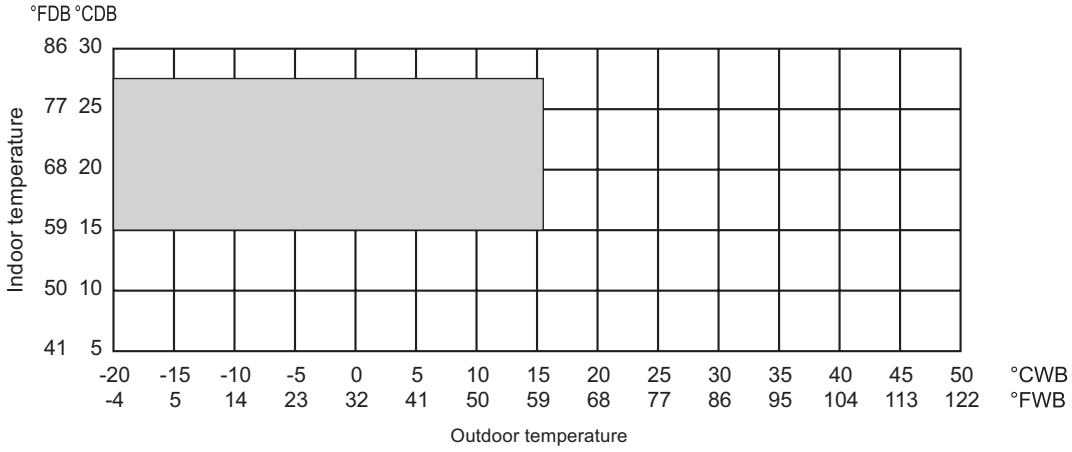
Outdoor inlet air temp. °C	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Outdoor inlet air temp. °F	43	39	36	34	32	28	25	21	18	14	-4
PURY-(E)P200YJM-A(-BS)	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PURY-(E)P250YJM-A(-BS)	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PURY-(E)P300YJM-A(-BS)	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PURY-(E)P350YJM-A(-BS)	1.00	0.93	0.85	0.83	0.84	0.86	0.90	0.90	0.95	0.95	0.95
PURY-(E)P400Y(S)JM-A(1)(-BS)	1.00	0.95	0.90	0.87	0.88	0.89	0.90	0.95	0.95	0.95	0.95
PURY-(E)P450Y(S)JM-A(1)(-BS)	1.00	0.98	0.89	0.87	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-(E)P500YSJM-A(1)(-BS)	1.00	0.98	0.89	0.86	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-(E)P550YSJM-A(-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PURY-(E)P600YSJM-A(1)(-BS)	1.00	0.94	0.84	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PURY-(E)P650YSJM-A(-BS)	1.00	0.94	0.84	0.86	0.87	0.88	0.90	0.90	0.93	0.93	0.93
PURY-(E)P700YSJM-A(1)(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-P750YSJM-A(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-P800YSJM-A(1)(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-P850YSJM-A(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PURY-P900YSJM-A(-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95

6-6. Operation temperature range

• Cooling



• Heating



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

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

R2(HIGH COP)

7. OPTIONAL PARTS

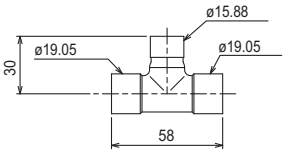
7-1. JOINT

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.

CMY-Y102SS-G2

mm

For Gas pipe:



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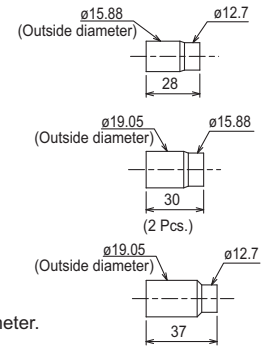
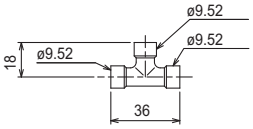


For Liquid pipe:



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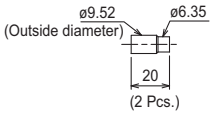
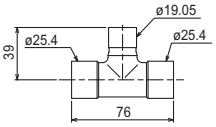


*Pipe diameter is indicated by inside diameter.

CMY-Y102LS-G2

mm

For Gas pipe:



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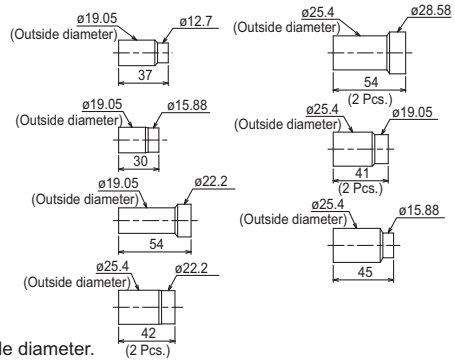
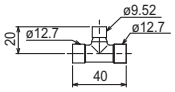


For Liquid pipe:



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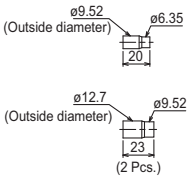
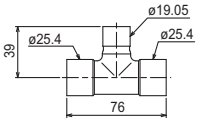


*Pipe diameter is indicated by inside diameter.

CMY-Y202S-G2

mm

For Gas pipe:



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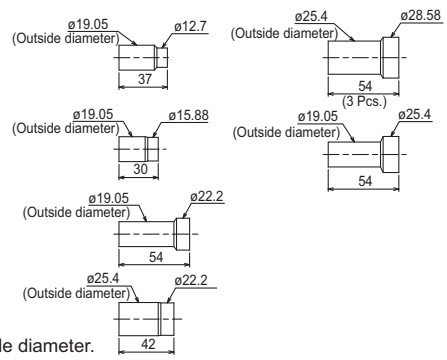
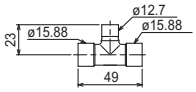
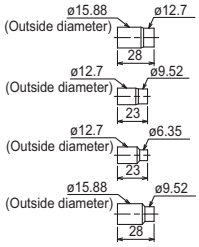


For Liquid pipe:



<Deformed pipe(Accessory)>



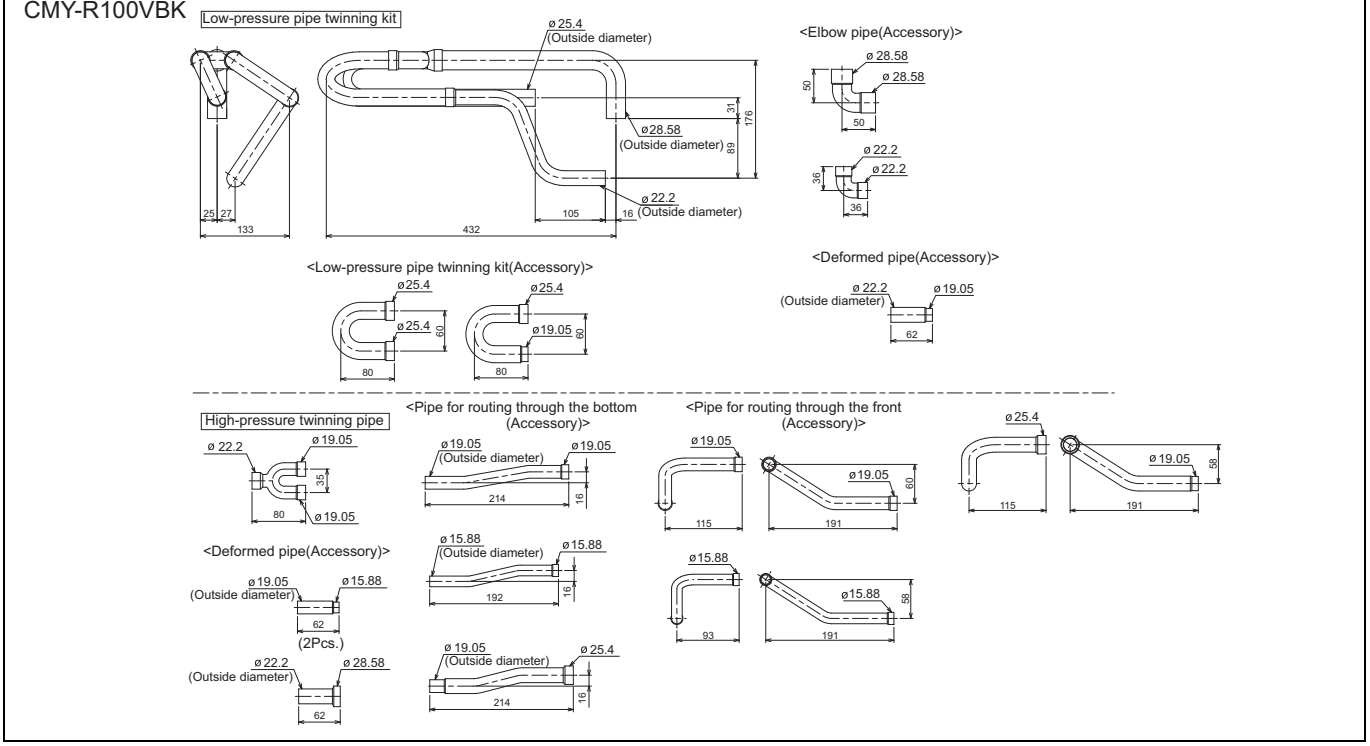
*Pipe diameter is indicated by inside diameter.

R2(HIGH COP)

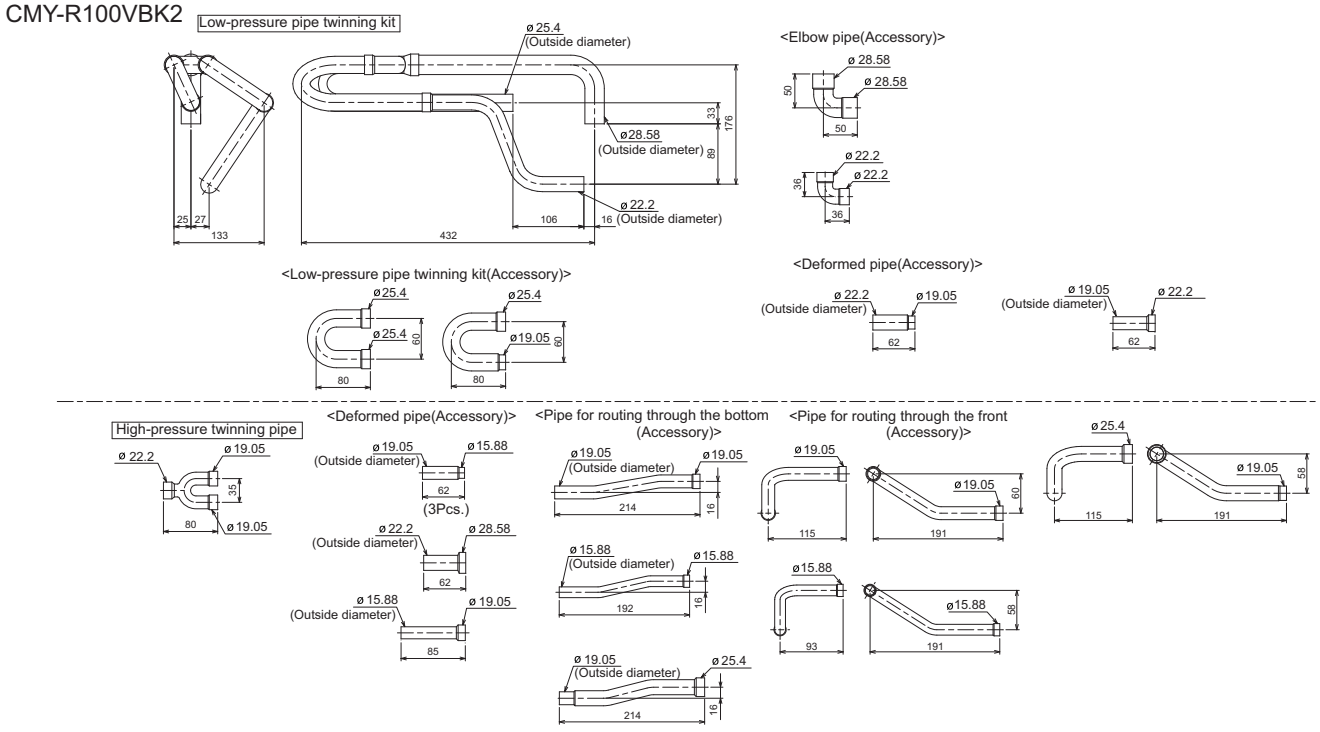
7-2. OUTDOOR TWINNING KIT

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-R100VBK

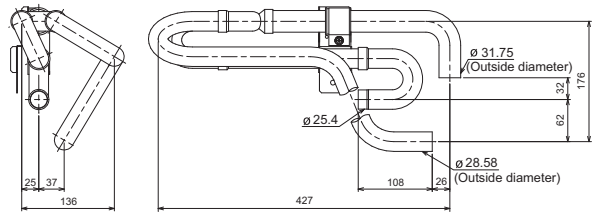


CMY-R100VBK2

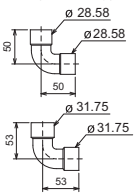


CMY-R200VBK

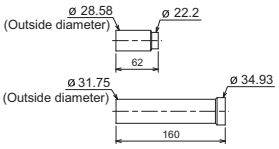
Low-pressure pipe twinning kit



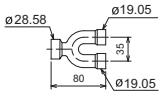
<Elbow pipe(Accessory)>



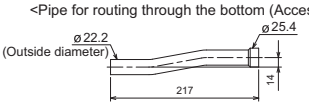
<Deformed pipe(Accessory)>



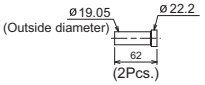
High-pressure twinning pipe



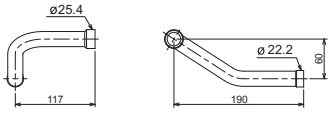
<Pipe for routing through the bottom (Accessory)>



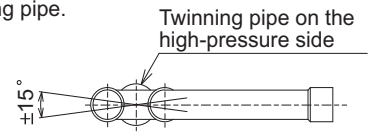
<Deformed pipe(Accessory)>



<Pipe for routing through the front (Accessory)>



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

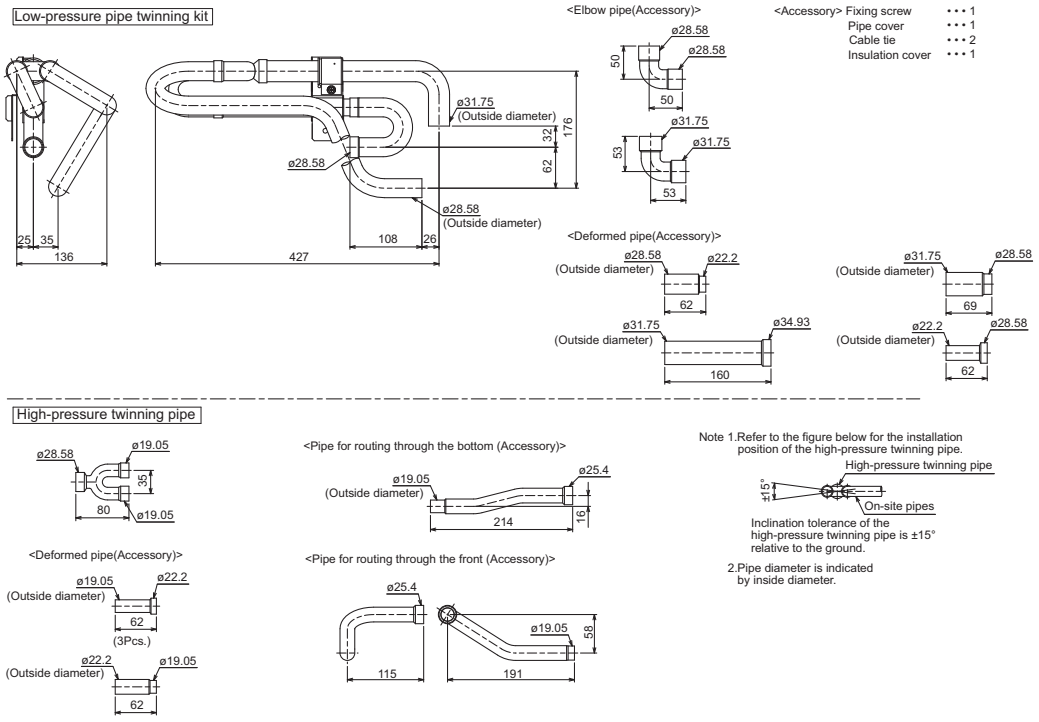


Slope of the twinning pipe is at an angle within ±15° to the horizontal plane.

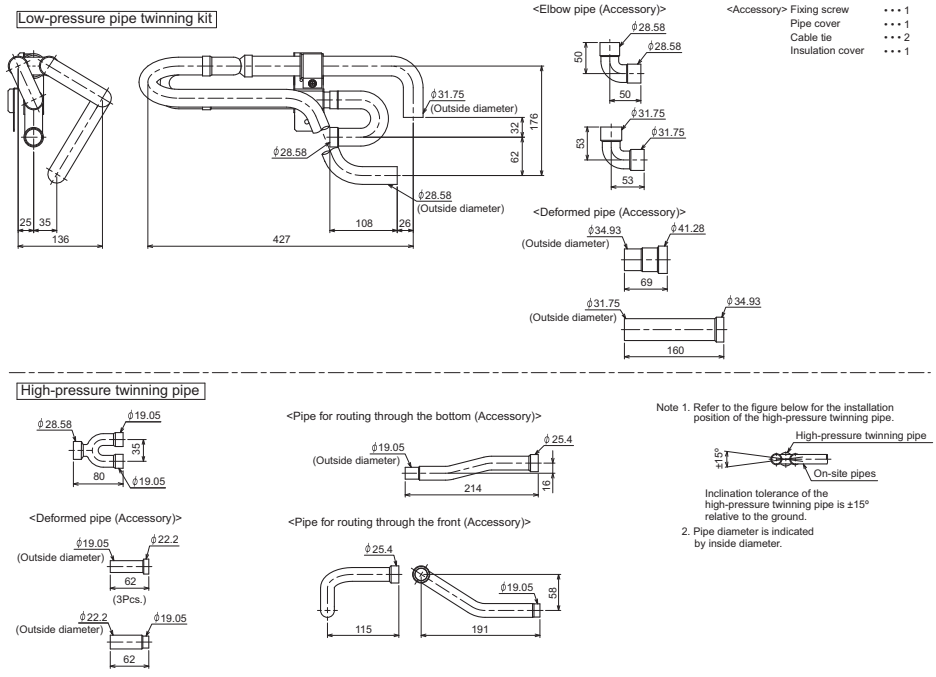
2. Use the attached pipe to braze the port-opening of the distributer.
3. Pipe diameter is indicated by inside diameter.
4. Only use the Twinning pipe by Mitsubishi (optional parts) .

R2(HIGH COP)

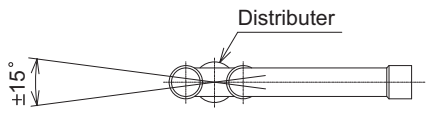
CMY-R100XLVBK



CMY-R200XLVBK



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



The angle of the branch pipe for hign pressure is within ±15° against the horizontal plane.

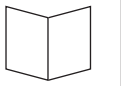
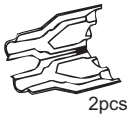
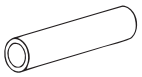
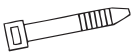
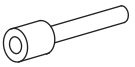
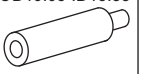
2. Use the attached pipe to braze the port-opening of the distributer.
3. Pipe diameter is indicated by inside diameter.
4. Only use the Twinning pipe by Mitsubishi (optional parts) .

R2(HIGH COP)

7-3. JOINT KIT CMY-R160-J1 FOR BC CONTROLLER

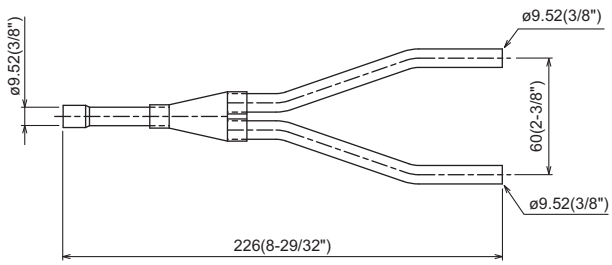
Joint kit "CMY-R160-J1" for BC controller is used to combine 2 ports of the BC controller at a PURY-(E)P-Y(S)JM-A system so as to enable down-stream Indoor capacity above P80 as shown in Fig. 1.

The Joint kit include following items:

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

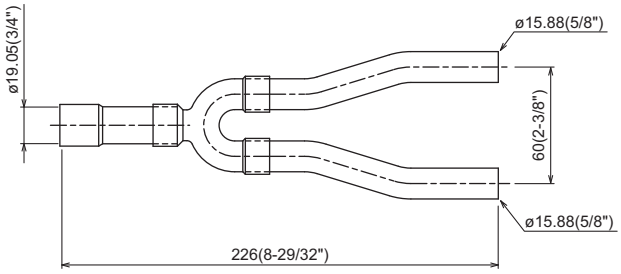
Please prepare the following items in the field. ①Tape for insulation material sealing ②Extension pipe for refrigerant circuit Ref.: WT05840X01_01

②Joint pipe (for liquid side)



③Joint pipe (for gas side)

mm(in.)



R2(HIGH COP)

1. Designing CMY-R160-J1 to a PURY-(E)P-Y(S)JM-A 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.

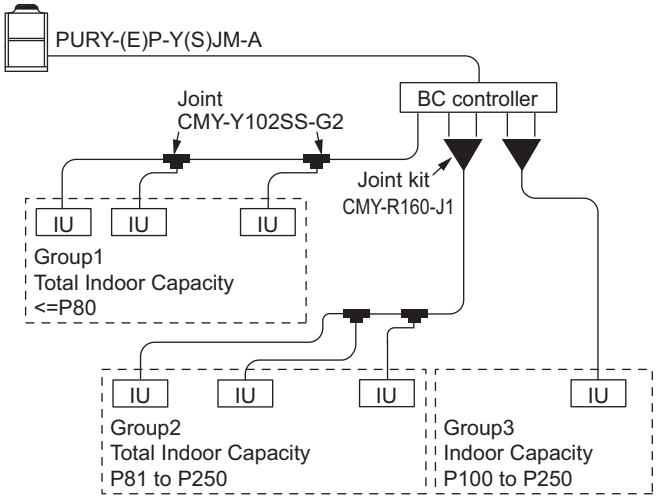
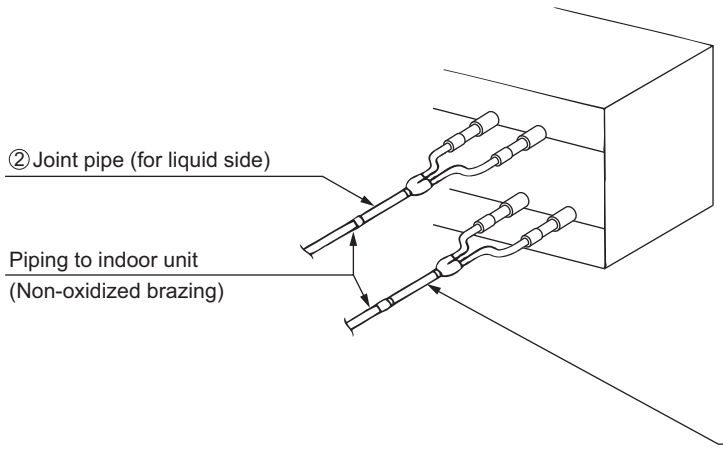


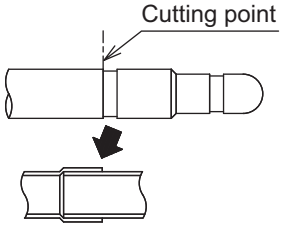
Fig.1. CMY-R160-J1 applying scheme Ref.: WT05840X01_02

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.





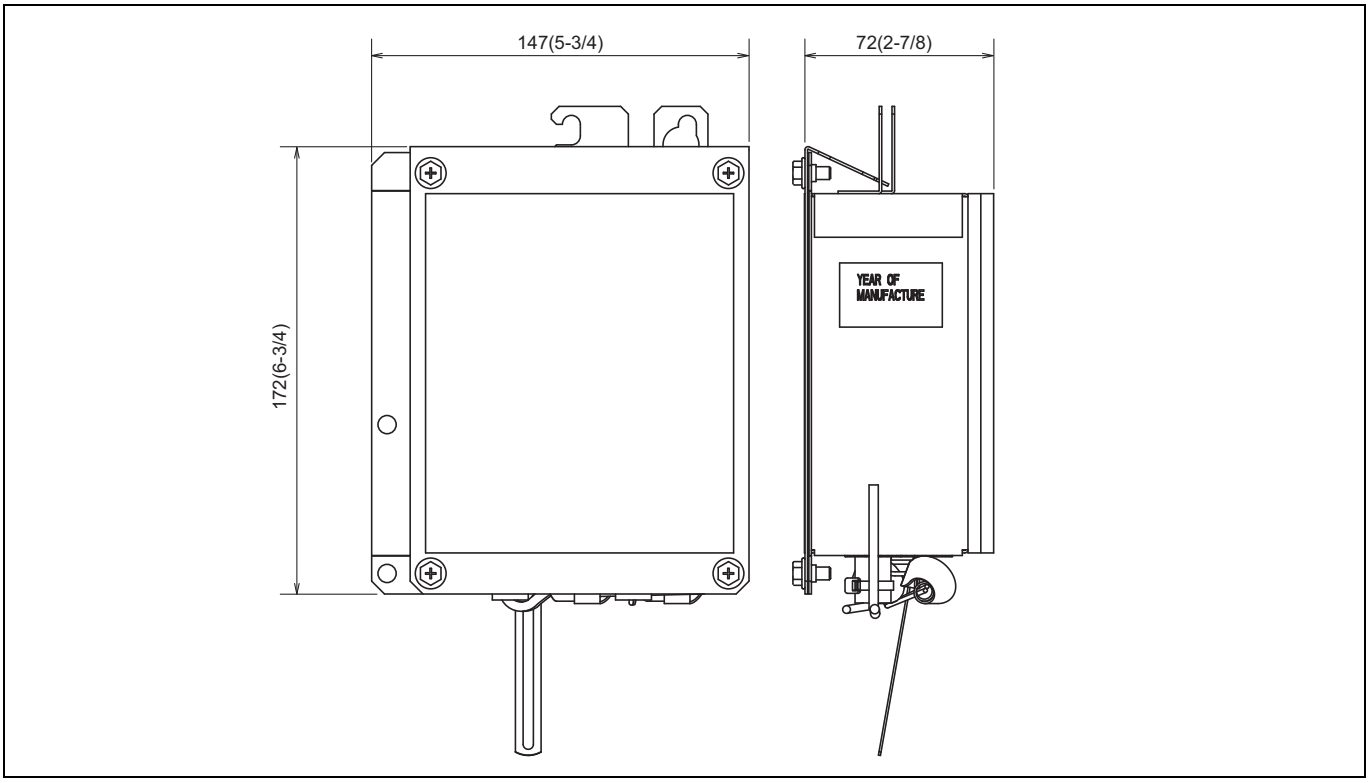
Have pipe expansion of indoor unit connecting port by cutting the piping at the cutting point.
Remove burr after cutting the piping to prevent entering the piping.
Check that there is no crack at the pipe expansion part.

Fig.2. Connecting CMY-R160-J1 Ref.: WT05840X01_03

Ref: CMY_R160_J_DOC_EUDB

7-4. RELAY BOX

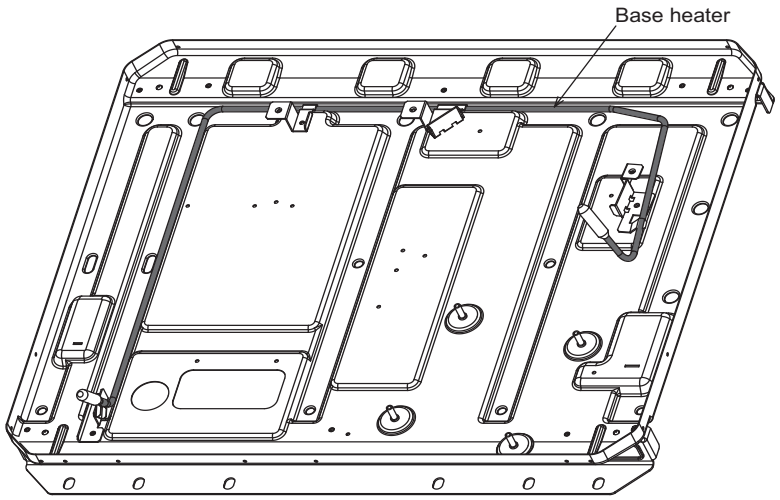
If there is a risk that the drain water will freeze inside the outdoor unit, the installation of a base heater is recommended.
PAC-BH02KTY-E is a relay box for controlling the electric base heater. For details, refer to the relay box Installation Manual.



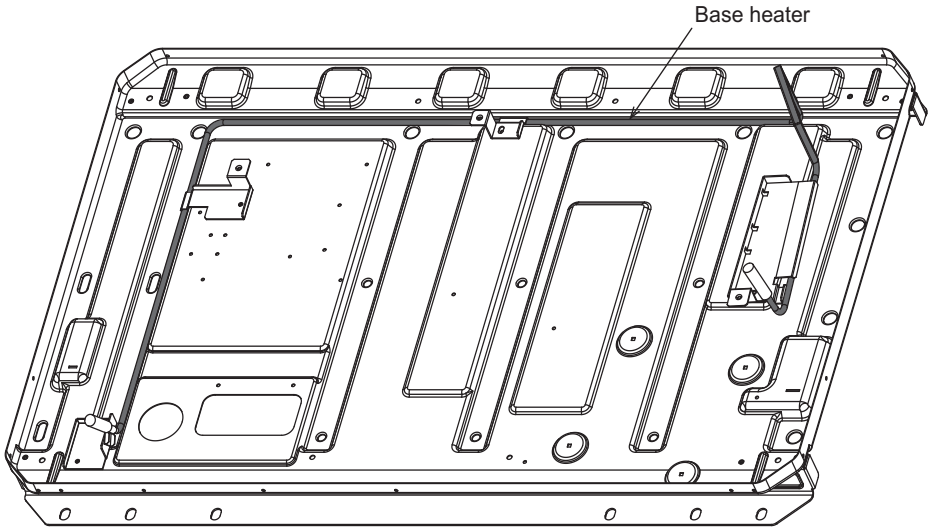
7-5. BASE HEATER

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-BH01EHT-E (for S module)



PAC-BH02EHT-E (for L module)



PAC-BH03EHT-E (for XL module)