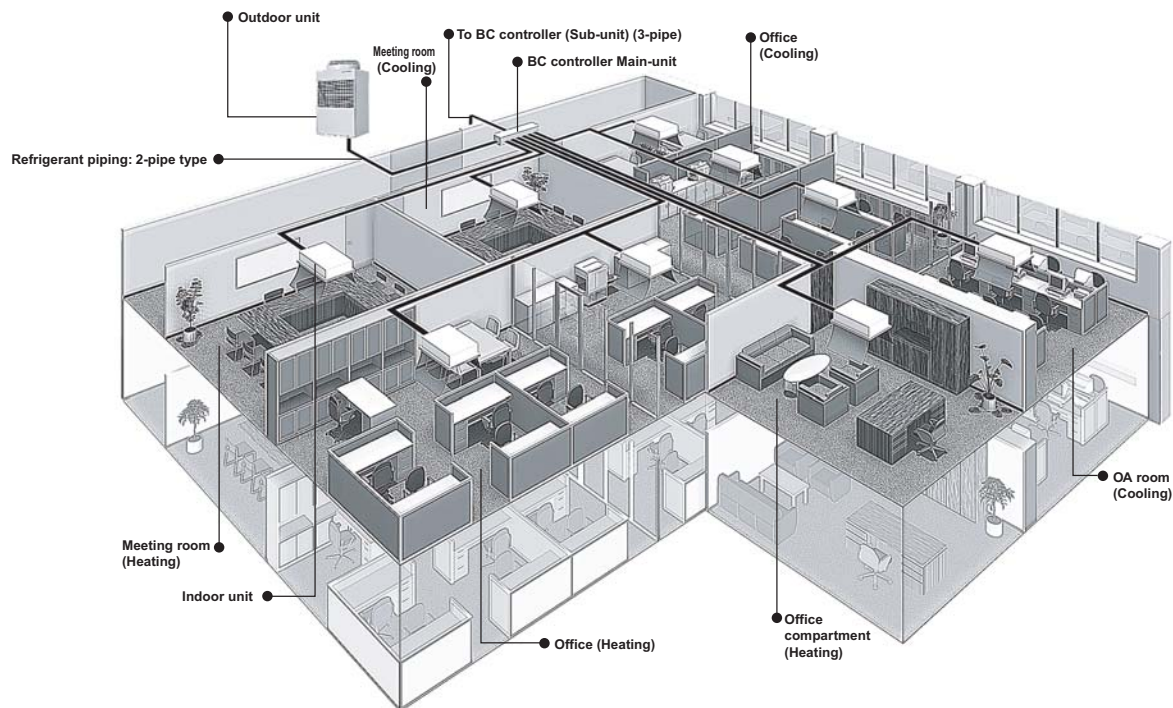


OUTDOOR UNITS

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CITY MULTI™ OUTDOOR UNITS

R2 SERIES



Heat recovery: PURY-P-TGMU-A(-BS)

	P72	P96	P108	P126	P144	P168	P192	P204	P216	P234
	8HP	10HP	12HP	14HP	16HP	18HP	20HP	22HP	24HP	26HP
Nominal cooling cap.*1 BTU/h	72,000	96,000	108,000	126,000	144,000	168,000	192,000	204,000	216,000	234,000
Nominal heating cap.*2 BTU/h	80,000	108,000	120,000	140,000	160,000	188,000	216,000	228,000	248,000	268,000
R2 Heat recovery	●	●	●	●	●	●	●	●	●	●

* Nominal conditions *1, *2 are referable at the Specification sheet.

1. SPECIFICATIONS

DATA U3

Model			PURY-P72TGMU-A(-BS)		PURY-P96TGMU-A(-BS)		
Power source			3-phase 3-wire 208-230 V 60Hz				
Cooling capacity (Nominal)	*1	BTU / h	72,000		96,000		
		kW	21.1		28.1		
		Power input	kW	6.48		8.67	
		Current input(208-230)	A	19.9-18.0		26.7-24.1	
		COP (kW / kW)		3.25		3.24	
Temp. range of cooling	Indoor		59 to 75 degFW.B. (15 to 24 degCW.B.)				
	Outdoor		23 to 109 degFD.B. (-5 to 43 degCD.B.) 32 to 109 degFD.B. (0 to 43degCD.B.) Outdoor unit below Indoor unit				
Heating capacity (Nominal)	*2	BTU / h	80,000		108,000		
		kW	23.4		31.7		
		Power input	kW	6.33		8.56	
		Current input(208-230)	A	19.5-17.6		26.4-23.8	
		COP (kW / kW)		3.69		3.70	
Temp. range of heating	Indoor		59 to 81 degFD.B. (15 to 27 degCD.B.)				
	Outdoor		-4 to 60 degFW.B. (-20 to 15.5 degCW.B.)				
Indoor unit connectable	Total capacity		50-150% of outdoor unit capacity		50-150% of outdoor unit capacity		
	Model / Quantity		P06-P96 / 1-15		P06-P96 / 1-19		
Noise level (measured in anechoic room)		dB <A>	56		57		
Diameter of refrigerant pipe (O.D.)	Liquid (High press.)	in. (mm)	5/8 (15.88) Brazed + Flare		3/4 (19.05) Brazed + Flare		
	Gas (Low press.)	in. (mm)	3/4 (19.05) Brazed		7/8 (22.2) Brazed		
External finish			Pre-coated galvanized sheets(+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				
External dimension H x W x D		in.	72-15/32 x 39 x 33-3/32		72-15/32 x 39 x 33-3/32		
		mm	1,840 x 990 x 840		1,840 x 990 x 840		
Net weight		lbs(kg)	536 (243)		574 (260)		
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Compressor	Type		Inverter scroll hermetic comp.		Inverter scroll hermetic comp.		
	Manufacturer		AC&R Works,MITSUBISHI ELECTRIC CORPORATION				
	Starting method		Inverter		Inverter		
	Motor output	kW	4.7		6.7		
	Case heater	kW	0.057(230V)		0.057(230V)		
	Lubricant		MEL32		MEL32		
FAN	Airflow rate	cfm	7,050		7,050		
		m3 / min	200		200		
		L / s	3,333		3,333		
	External static press.	in.WG(Pa)	0 (0)		0 (0)		
	Type x Quantity		Propeller fan x 1		Propeller fan x 1		
	Control, Driving mechanism		Inverter-control , Direct-driven		Inverter-control , Direct-driven		
	Motor output	kW	0.38 x 1		0.38 x 1		
HIC circuit (HIC: Heat Inter-Changer)			-				
Protection	High pressure protection		High pressure sensor, High pressure switch 601 psi (4.15 MPa)				
	Inverter circuit (COMP. , FAN)		Over-current protection,Over-heat protection				
	Compressor		Over-heat protection				
	Fan motor		Thermal switch				
Defrosting method			Auto-defrost mode (Reversed refrigerant circle)				
Refrigerant	Type x Original charge	lbs + oz (kg)	R410A x (23 lbs + 3 oz) (10.5kg)		R410A x (28 lbs + 11 oz) (13.0kg)		
	Control		indoor LEV and BC controller				
Drawing	External		W659655				
	Wiring		W274647				
	Refrigerant cycle		-				
Standard attachment	Document		Installation Manual		Installation Manual		
	Accessory		Details refer to External Drw W659655		Details refer to External Drw W659655		
Optional parts			High static pressure motor : PAC-KBU04MT-U-F Joint : CMY-Y102S-G,CMY-R160-J BC controller: CMB-P104,105,106,108,1010,1013,1016NU-G Main BC controller:CMB-P108,1010,1013,1016NU-GA Sub BC controller: CMP-P104,108NU-GB				
Remark			Details on foundation work,duct work,insulation work,electrical wiring,power source switch,and other items shall be referred to the Installation Manual.				

Note :	*1 Nominal cooling conditions	*2 Nominal heating conditions	Unit converter
	Indoor : 80degF D.B. / 67degF W.B. (26.7degC D.B. / 19.4degC W.B.) Outdoor : 95degF D.B. (35degC D.B.) Pipe length : 25 ft. (7.6 m) Level difference : 0 ft. (0 m)	70degF D.B. (21.1degC D.B.) 47degF D.B. / 43degF W.B. (8.3degC D.B. / 6.1degC W.B.) 25 ft. (7.6 m) 0 ft. (0 m)	kcal/h = kW x 860 BTU/h = kW x 3,412 cfm = m3/min x 35.31 lbs = kg / 0.4536 *Above specification data is subject to rounding variation.
*Due to continuing improvement, above specification may be subject to change without notice.			

Ref.: Spec_PURY-P72-96TGMU

1. SPECIFICATIONS

DATA U3

Model			PURY-P108TGMU-A(-BS)		PURY-P126TGMU-A(-BS)		
Power source			3-phase 3-wire 208-230 V 60Hz				
Cooling capacity (Nominal)	*1	BTU / h	108,000		126,000		
		kW	31.7		36.9		
	Power input	kW	9.73		11.36		
		Current input(208-230)	A	30.0-27.1		35.0-31.6	
		COP (kW / kW)	3.25		3.24		
Temp. range of cooling	Indoor		59 to 75 degFW.B. (15 to 24 degCW.B.)				
	Outdoor		23 to 109 degFD.B. (-5 to 43 degCD.B.)				
			32 to 109 degFD.B. (0 to 43degCD.B.) Outdoor unit below Indoor unit				
Heating capacity (Nominal)	*2	BTU / h	120,000		140,000		
		kW	35.2		41.0		
	Power input	kW	9.92		11.67		
		Current input(208-230)	A	30.6-27.6		36.0-32.5	
		COP (kW / kW)	3.54		3.51		
Temp. range of heating	Indoor		59 to 81 degFD.B. (15 to 27 degCD.B.)				
	Outdoor		-4 to 60 degFW.B. (-20 to 15.5 degCW.B.)				
Indoor unit connectable	Total capacity		50-150% of outdoor unit capacity		50-150% of outdoor unit capacity		
	Model / Quantity		P06-P96 / 1-20		P06-P96 / 1-20		
Noise level (measured in anechoic room)		dB <A>	60		61		
Diameter of refrigerant pipe (O.D.)	Liquid (High press.)	in. (mm)	3/4 (19.05) Brazed + Flare		3/4 (19.05) Brazed		
	Gas (Low press.)	in. (mm)	7/8 (22.2) Brazed		1-1/8 (28.58) Brazed		
External finish			Pre-coated galvanized sheets(+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				
External dimension H x W x D		in.	72-15/32 x 39 x 33-3/32		72-15/32 x 50-13/16 x 33-3/32		
		mm	1,840 x 990 x 840		1,840 x 1,290 x 840		
Net weight		lbs(kg)	574 (260)		672 (304)		
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Compressor	Type		Inverter scroll hermetic comp.		Inverter scroll hermetic comp.		
	Manufacturer		AC&R Works,MITSUBISHI ELECTRIC CORPORATION				
	Starting method		Inverter		Inverter		
	Motor output	kW	8.0		8.5		
	Case heater	kW	0.057(230V)		0.057(230V)		
	Lubricant		MEL32		MEL32		
FAN	Airflow rate	cfm	7,050		8,450		
		m3 / min	200		240		
		L / s	3,333		4,000		
	External static press.	in.WG(Pa)	0 (0)		0 (0)		
	Type x Quantity		Propeller fan x 1		Propeller fan x 1		
	Control, Driving mechanism		Inverter-control , Direct-driven		Inverter-control , Direct-driven		
	Motor output	kW	0.38 x 1		0.64 x 1		
HIC circuit (HIC: Heat Inter-Changer)			-				
Protection	High pressure protection		High pressure sensor, High pressure switch 601 psi (4.15 MPa)				
	Inverter circuit (COMP. , FAN)		Over-current protection,Over-heat protection				
	Compressor		Over-heat protection				
	Fan motor		Thermal switch				
Defrosting method			Auto-defrost mode (Reversed refrigerant circle)				
Refrigerant	Type x Original charge	lbs + oz (kg)	R410A x (28 lbs + 11 oz) (13.0kg)		R410A x (36 lbs + 7 oz) (16.5kg)		
	Control		indoor LEV and BC controller				
Drawing	External		W659655		W659656		
	Wiring		W274647		W274647		
	Refrigerant cycle		-		-		
Standard attachment	Document		Installation Manual		Installation Manual		
	Accessory		Details refer to External Drw W659655		Details refer to External Drw W659656		
Optional parts			High static pressure motor : PAC-KBU04MT-U-F Joint : CMY-Y102S-G,CMY-R160-J BC controller: CMB-P104,105,106,108,1010,1013,1016NU-G Main BC controller:CMB-P108,1010,1013,1016NU-GA Sub BC controller: CMP-P104,108NU-GB				
Remark			Details on foundation work,duct work,insulation work,electrical wiring,power source switch,and other items shall be referred to the Installation Manual.				

Note :	*1 Nominal cooling conditions	*2 Nominal heating conditions	Unit converter
Indoor :	80degF D.B. / 67degF W.B. (26.7degC D.B. / 19.4degC W.B.)	70degF D.B. (21.1degC D.B.)	kcal/h = kW x 860 BTU/h = kW x 3,412
Outdoor :	95degF D.B. (35degC D.B.)	47degF D.B. / 43degF W.B. (8.3degC D.B. / 6.1degC W.B.)	cfm = m3/min x 35.31 lbs = kg / 0.4536
Pipe length :	25 ft. (7.6 m)	25 ft. (7.6 m)	*Above specification data is subject to rounding variation.
Level difference :	0 ft. (0 m)	0 ft. (0 m)	
*Due to continuing improvement, above specification may be subject to change without notice.			

Ref.: Spec_PURY-P108-126TGMU

1. SPECIFICATIONS

DATA U3

Model			PURY-P144TGMU-A(-BS)		PURY-P168TGMU-A(-BS)		
Power source			3-phase 3-wire 208-230 V 60Hz				
Cooling capacity (Nominal)	*1	BTU / h	144,000		168,000		
		kW	42.2		49.2		
	Power input	kW	14.20		14.97		
		Current input(208-230)	A	43.8-39.6		46.1-41.7	
		COP (kW / kW)	2.97		3.28		
Temp. range of cooling	Indoor		59 to 75 degFW.B. (15 to 24 degCW.B.)				
	Outdoor		23 to 109 degFD.B. (-5 to 43 degCD.B.) 32 to 109 degFD.B. (0 to 43degCD.B.) Outdoor unit below Indoor unit				
Heating capacity (Nominal)	*2	BTU / h	160,000		188,000		
		kW	46.9		55.1		
	Power input	kW	13.67		15.02		
		Current input(208-230)	A	42.1-38.1		46.3-41.9	
		COP (kW / kW)	3.43		3.66		
Temp. range of heating	Indoor		59 to 81 degFD.B. (15 to 27 degCD.B.)				
	Outdoor		-4 to 60 degFW.B. (-20 to 15.5 degCW.B.)				
Indoor unit connectable	Total capacity		50-150% of outdoor unit capacity		50-150% of outdoor unit capacity		
	Model / Quantity		P06-P96 / 1-24		P06-P96 / 1-24		
Noise level (measured in anechoic room)		dB <A>	61		61		
Diameter of refrigerant pipe (O.D.)	Liquid (High press.)		7/8 (22.2) Brazed		7/8 (22.2) Brazed		
	Gas (Low press.)		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		
External finish			Pre-coated galvanized sheets(+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				
External dimension H x W x D		in.	72-15/32 x 50-13/16 x 33-3/32		72-15/32 x 78-3/8 x 33-3/32		
		mm	1,840 x 1,290 x 840		1,840 x 1,990 x 840		
Net weight		lbs(kg)	672 (304)		1,090 (494)		
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Compressor	Type		Inverter scroll hermetic comp.		Inverter scroll hermetic comp. + Scroll hermetic comp.		
	Manufacturer		AC&R Works,MITSUBISHI ELECTRIC CORPORATION				
	Starting method		Inverter		Inverter + Direct		
	Motor output		9.7		6.8 + 5.3		
	Case heater		0.057(230V)		0.057 x 2 (230V)		
	Lubricant		MEL32		MEL32		
FAN	Airflow rate	cfm	8,450		14,100		
		m3 / min	240		400		
		L / s	4,000		6,667		
	External static press.		in.WG(Pa)	0 (0)		0 (0)	
	Type x Quantity		Propeller fan x 1		Propeller fan x 2		
	Control, Driving mechanism		Inverter-control , Direct-driven		Inverter-control , Direct-driven		
	Motor output		kW	0.64 x 1		0.38 x 2	
HIC circuit (HIC: Heat Inter-Changer)			-				
Protection	High pressure protection		High pressure sensor, High pressure switch 601 psi (4.15 MPa)				
	Inverter circuit (COMP. , FAN)		Over-current protection,Over-heat protection				
	Compressor		Over-heat protection				
	Fan motor		Thermal switch				
Defrosting method			Auto-defrost mode (Reversed refrigerant circle)				
Refrigerant	Type x Original charge	lbs + oz (kg)	R410A x (36 lbs + 7 oz) (16.5kg)		R410A x (48 lbs + 9 oz) (22.0kg)		
	Control		indoor LEV and BC controller				
Drawing	External		W659656		W659657		
	Wiring		W274647		W274648		
	Refrigerant cycle		-		-		
Standard attachment	Document		Installation Manual		Installation Manual		
	Accessory		Details refer to External Drw W659656		Details refer to External Drw W659657		
Optional parts			High static pressure motor : PAC-KBU04MT-U-F Joint : CMY-Y102S-G,CMY-R160-J Main BC controller:CMB-P108,1010,1013,1016NU-GA Sub BC controller: CMP-P104,108NU-GB				
Remark			Details on foundation work,duct work,insulation work,electrical wiring,power source switch,and other items shall be referred to the Installation Manual.				

Note :	*1 Nominal cooling conditions	*2 Nominal heating conditions	Unit converter
	Indoor : 80degF D.B. / 67degF W.B. (26.7degC D.B. / 19.4degC W.B.) Outdoor : 95degF D.B. (35degC D.B.) Pipe length : 25 ft. (7.6 m) Level difference : 0 ft. (0 m)	70degF D.B. (21.1degC D.B.) 47degF D.B. / 43degF W.B. (8.3degC D.B. / 6.1degC W.B.) 25 ft. (7.6 m) 0 ft. (0 m)	kcal/h = kW x 860 BTU/h = kW x 3,412 cfm = m3/min x 35.31 lbs = kg / 0.4536 *Above specification data is subject to rounding variation.
*Due to continuing improvement, above specification may be subject to change without notice.			

Ref.: Spec_PURY-P144-168TGMU

1. SPECIFICATIONS

DATA U3

Model			PURY-P192TGMU-A(-BS)		PURY-P204TGMU-A(-BS)	
Power source			3-phase 3-wire 208-230 V 60Hz			
Cooling capacity (Nominal)	*1	BTU / h	192,000		204,000	
	*1	kW	56.3		59.8	
	Power input		kW		17.34	
	Current input(208-230)		A		53.4-48.3	
	COP (kW / kW)		3.24		3.19	
Temp. range of cooling	Indoor		59 to 75 degFW.B. (15 to 24 degCW.B.)			
	Outdoor		23 to 109 degFD.B. (-5 to 43 degCD.B.)			
			32 to 109 degFD.B. (0 to 43degCD.B.) Outdoor unit below Indoor unit			
Heating capacity (Nominal)	*2	BTU / h	216,000		228,000	
	*2	kW	63.3		66.8	
	Power input		kW		17.48	
	Current input(208-230)		A		53.9-48.7	
	COP (kW / kW)		3.62		3.58	
Temp. range of heating	Indoor		59 to 81 degFD.B. (15 to 27 degCD.B.)			
	Outdoor		-4 to 60 degFW.B. (-20 to 15.5 degCW.B.)			
Indoor unit connectable	Total capacity		50-150% of outdoor unit capacity		50-150% of outdoor unit capacity	
	Model / Quantity		P06-P96 / 1-24		P06-P96 / 1-24	
Noise level (measured in anechoic room)		dB <A>	62		62	
Diameter of refrigerant pipe (O.D.)	Liquid (High press.)		in. (mm)		7/8 (22.2) Brazed	
	Gas (Low press.)		in. (mm)		1-1/8 (28.58) Brazed	
External finish			Pre-coated galvanized sheets(+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension H x W x D		in.	72-15/32 x 78-3/8 x 33-3/32		72-15/32 x 78-3/8 x 33-3/32	
		mm	1,840 x 1,990 x 840		1,840 x 1,990 x 840	
Net weight		lbs(kg)	1,090 (494)		1,090 (494)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
Compressor	Type		Inverter scroll hermetic comp. + Scroll hermetic comp.		Inverter scroll hermetic comp. + Scroll hermetic comp.	
	Manufacturer		AC&R Works,MITSUBISHI ELECTRIC CORPORATION			
	Starting method		Inverter + Direct		Inverter + Direct	
	Motor output		kW		8.2 + 5.3	
	Case heater		kW		0.057 x 2 (230V)	
	Lubricant		MEL32		MEL32	
FAN	Airflow rate	cfm	14,100		14,100	
		m3 / min	400		400	
		L / s	6,667		6,667	
	External static press.		in.WG(Pa)		0 (0)	
	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Control, Driving mechanism		Inverter-control , Direct-driven		Inverter-control , Direct-driven	
	Motor output		kW		0.38 x 2	
HIC circuit (HIC: Heat Inter-Changer)			-			
Protection	High pressure protection		High pressure sensor, High pressure switch 601 psi (4.15 MPa)			
	Inverter circuit (COMP. , FAN)		Over-current protection,Over-heat protection			
	Compressor		Over-heat protection			
	Fan motor		Thermal switch			
Defrosting method			Auto-defrost mode (Reversed refrigerant circle)			
Refrigerant	Type x Original charge		lbs + oz (kg)		R410A x (48 lbs + 9 oz) (22.0kg)	
	Control		indoor LEV and BC controller			
Drawing	External		W659657			
	Wiring		W274648			
	Refrigerant cycle		-			
Standard attachment	Document		Installation Manual			
	Accessory		Details refer to External Drw W659657			
Optional parts			High static pressure motor : PAC-KBU04MT-U-F Joint : CMY-Y102S-G,CMY-R160-J Main BC controller:CMB-P108,1010,1013,1016NU-GA Sub BC controller: CMP-P104,108NU-GB			
Remark			Details on foundation work,duct work,insulation work,electrical wiring,power source switch,and other items shall be referred to the Installation Manual.			

Note :		*1 Nominal cooling conditions	*2 Nominal heating conditions	Unit converter
Indoor :		80degF D.B. / 67degF W.B. (26.7degC D.B. / 19.4degC W.B.)	70degF D.B. (21.1degC D.B.)	kcal/h = kW x 860
Outdoor :		95degF D.B. (35degC D.B.)	47degF D.B. / 43degF W.B. (8.3degC D.B. / 6.1degC W.B.)	BTU/h = kW x 3,412
Pipe length :		25 ft. (7.6 m)	25 ft. (7.6 m)	cfm = m3/min x 35.31
Level difference :		0 ft. (0 m)	0 ft. (0 m)	lbs = kg / 0.4536
*Above specification data is subject to rounding variation.				

*Due to continuing improvement, above specification may be subject to change without notice.

Ref.: Spec_PURY-P192-204TGMU

1. SPECIFICATIONS

DATA U3

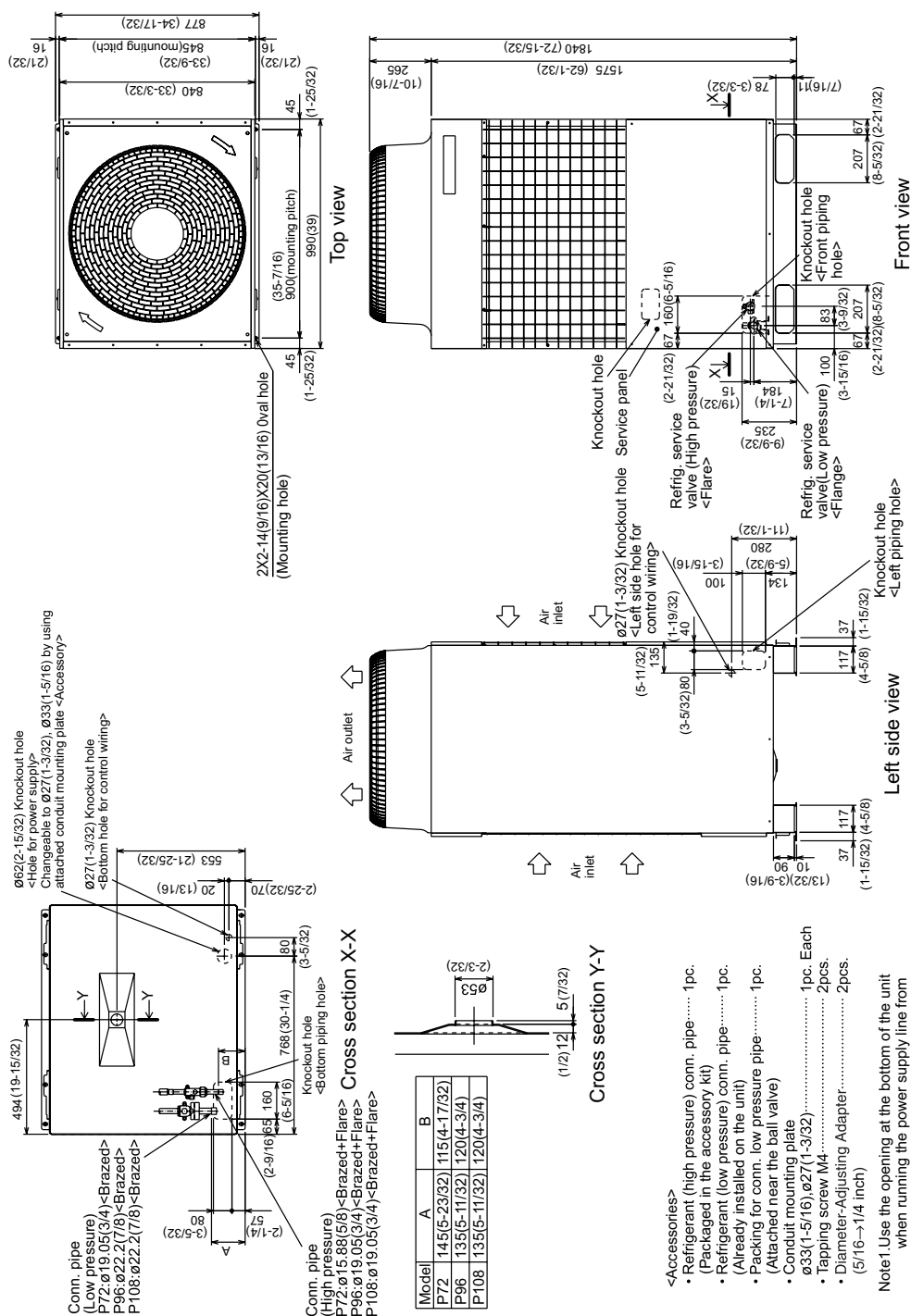
Model			PURY-P216TGMU-A(-BS)		PURY-P234TGMU-A(-BS)		
Power source			3-phase 3-wire 208-230 V 60Hz				
Cooling capacity (Nominal)	*1	BTU / h	216,000		234,000		
		*1 kW	63.3		68.6		
		Power input	kW	19.92		21.62	
		Current input(208-230)	A	61.4-55.5		66.6-60.3	
		COP (kW / kW)		3.17		3.17	
Temp. range of cooling	Indoor		59 to 75 degFW.B. (15 to 24 degCW.B.)				
	Outdoor		23 to 109 degFD.B. (-5 to 43 degCD.B.) 32 to 109 degFD.B. (0 to 43degCD.B.) Outdoor unit below Indoor unit				
Heating capacity (Nominal)	*2	BTU / h	248,000		268,000		
		*2 kW	72.7		78.5		
		Power input	kW	21.03		23.11	
		Current input(208-230)	A	64.8-58.6		71.2-64.4	
		COP (kW / kW)		3.45		3.39	
Temp. range of heating	Indoor		59 to 81 degFD.B. (15 to 27 degCD.B.)				
	Outdoor		-4 to 60 degFW.B. (-20 to 15.5 degCW.B.)				
Indoor unit connectable	Total capacity		50-150% of outdoor unit capacity		50-150% of outdoor unit capacity		
	Model / Quantity		P06-P96 / 1-32		P06-P96 / 1-32		
Noise level (measured in anechoic room)		dB <A>	62.5		63		
Diameter of refrigerant pipe (O.D.)	Liquid (High press.)		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		
	Gas (Low press.)		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed		
External finish			Pre-coated galvanized sheets(+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				
External dimension H x W x D		in.	72-15/32 x 78-3/8 x 33-3/32		72-15/32 x 78-3/8 x 33-3/32		
		mm	1,840 x 1,990 x 840		1,840 x 1,990 x 840		
Net weight		lbs(kg)	1,090 (494)		1,090 (494)		
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
Compressor	Type		Inverter scroll hermetic comp. + Scroll hermetic comp.		Inverter scroll hermetic comp. + Scroll hermetic comp.		
	Manufacturer		AC&R Works,MITSUBISHI ELECTRIC CORPORATION				
	Starting method		Inverter + Direct		Inverter + Direct		
	Motor output		10.1 + 5.3		10.9 + 5.3		
	Case heater		0.057 x 2 (230V)		0.057 x 2 (230V)		
	Lubricant		MEL32		MEL32		
FAN	Airflow rate	cfm	14,100		14,100		
		m3 / min	400		400		
		L / s	6,667		6,667		
	External static press.		in.WG(Pa)	0 (0)		0 (0)	
	Type x Quantity		Propeller fan x 2		Propeller fan x 2		
	Control, Driving mechanism		Inverter-control , Direct-driven		Inverter-control , Direct-driven		
	Motor output		kW	0.38 x 2		0.38 x 2	
HIC circuit (HIC: Heat Inter-Changer)			-				
Protection	High pressure protection		High pressure sensor, High pressure switch 601 psi (4.15 MPa)				
	Inverter circuit (COMP. , FAN)		Over-current protection,Over-heat protection				
	Compressor		Over-heat protection				
	Fan motor		Thermal switch				
Defrosting method			Auto-defrost mode (Reversed refrigerant circle)				
Refrigerant	Type x Original charge	lbs + oz (kg)	R410A x (48 lbs + 9 oz) (22.0kg)		R410A x (48 lbs + 9 oz) (22.0kg)		
	Control		indoor LEV and BC controller				
Drawing	External		W659657				
	Wiring		W274648				
	Refrigerant cycle		-				
Standard attachment	Document		Installation Manual				
	Accessory		Details refer to External Drw W659657				
Optional parts			High static pressure motor : PAC-KBU04MT-U-F Joint : CMY-Y102S-G,CMY-Y102L-G1,CMY-R160-J Main BC controller:CMB-P108,1010,1013,1016NU-GA Sub BC controller: CMP-P104,108NU-GB				
Remark			Details on foundation work,duct work,insulation work,electrical wiring,power source switch,and other items shall be referred to the Installation Manual.				

Note :	*1 Nominal cooling conditions	*2 Nominal heating conditions	Unit converter
	Indoor : 80degF D.B. / 67degF W.B. (26.7degC D.B. / 19.4degC W.B.) Outdoor : 95degF D.B. (35degC D.B.) Pipe length : 25 ft. (7.6 m) Level difference : 0 ft. (0 m)	70degF D.B. (21.1degC D.B.) 47degF D.B. / 43degF W.B. (8.3degC D.B. / 6.1degC W.B.) 25 ft. (7.6 m) 0 ft. (0 m)	kcal/h = kW x 860 BTU/h = kW x 3,412 cfm = m3/min x 35.31 lbs = kg / 0.4536 *Above specification data is subject to rounding variation.
*Due to continuing improvement, above specification may be subject to change without notice.			

Ref.: Spec_PURY-P216-234TGMU

PURY-P72,96,108TGMU-A(-BS)

Drw. : PURY-TGMU_W659655 1/2
Unit : mm(in)



- Refrigerant (high pressure) conn. pipe..... 1pc.
(Packaged in the accessory kit)
- Refrigerant (low pressure) conn. pipe..... 1pc.
(Already installed on the unit)
- Packing for conn. low pressure pipe..... 1pc.
(Attached near the ball valve)
- Conduit mounting plate
ø33(1-5/16)×ø27(1-3/32)..... 1pc. Each
- Tapping screw M4..... 2pcs.
- Diameter-Adjusting Adapter..... 2pcs.
(5/16 to 1/4 inch)

Note1. Use the opening at the bottom of the unit when running the power supply line from the front or from the side of the unit.

Note2.Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

Spacing PURY-P72,96,108TGMU-A(-BS)

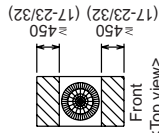
Drw. : PURY-TGMU_W659655 2/2
Unit : mm(in)

1.Space required around unit

- In case of single installation

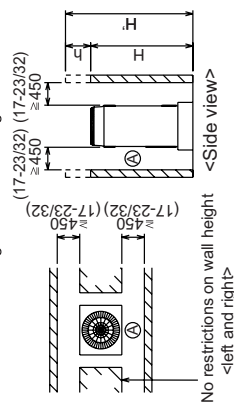
[Basic rules for spacing the unit]

- ① Since the service from the back of unit is required, provide the back space 450 (17-23/32) or above as the front.



[When inlet air enters from right and left sides of unit]

- ① Wall heights $<H>$ of the front and the back sides shall be within total height of unit.
② When wall height $<H>$ exceeds total height of unit, add $<H>$ dimension to $450(17-23/32)$ of the following:
 $h = \text{wall height } <H> - \text{total height of unit.}$

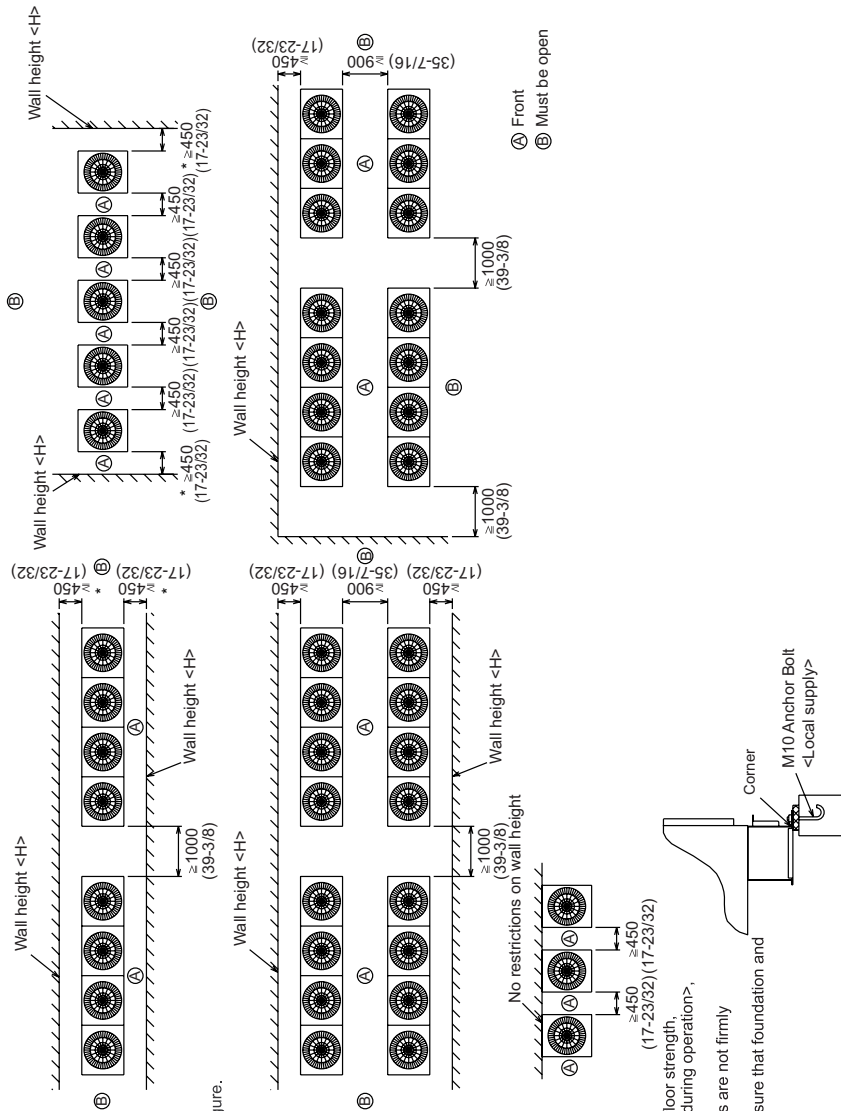


2.Foundation work

- (17-2303)(11-23)32
- ① When building the foundation, give full attention to the floor strength, drain water disposal -drain water flows out of the unit, during operation", piping and wiring routes.
 - ② Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
 - ③ When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.

- In case of collective installation and continuous installation

- ① Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air and people.
- ② Open in two directions.
- ③ In case of wall height <H> exceeds total height of unit, add <H> dimension (n-wall height <H> - total height of unit) to *marked dimension.
- ④ If there is a wall at both the front and the rear of the unit, install up to four units consecutively in the side direction and provide a space of 1000(39-3/8) or more as inlet space/passage space for each four units.

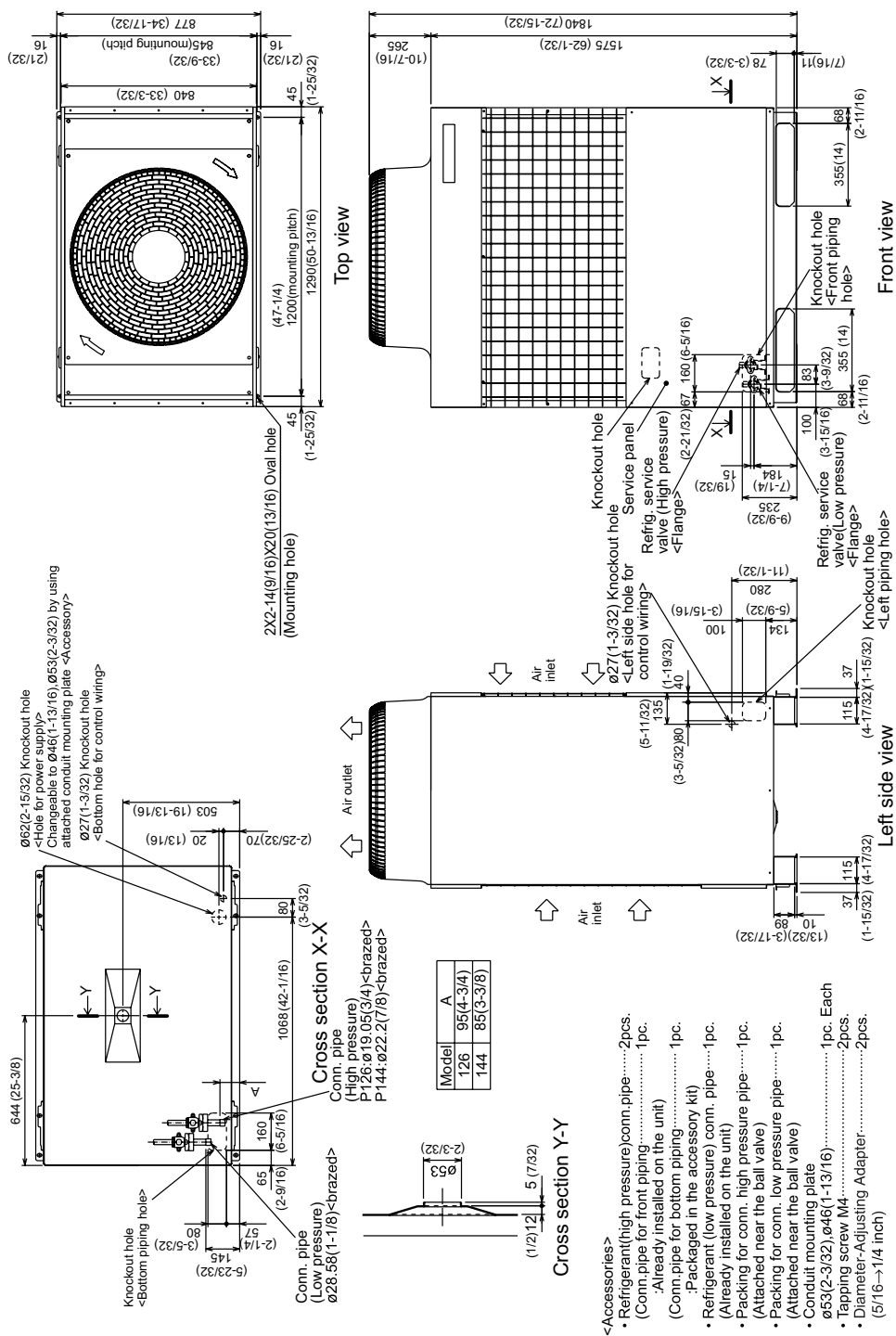


2. EXTERNAL DIMENSIONS

DATA U3

PURY-P126,144TGMU-A(-BS)

Drw. : PURY-TGMU_W659656 1/2
Unit : mm(in)



Note 1. Use the opening at the bottom of the unit when running the power supply line from the front or from the side of the unit.

Note 2. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

Spacing PURY-P126,144TGMU-A(-BS)

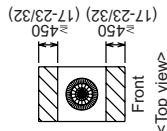
Drw. : PURY-TGMU_W659656 2/2
Unit : mm(in)

1.Space required around unit

- In case of single installation

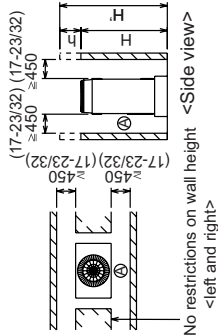
[Basic rules for spacing the unit]

- ① Since the service from the back of unit is required, provide the back space 450(17-23/32) or above as the front.



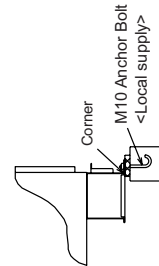
[When inlet air enters from right and left sides of unit]

- ① Wall heights $< H >$ of the front and the back sides shall be within total height of unit.
- ② When wall height $< H >$ exceeds total height of unit, add $< H >$ dimension to $450(17-23/32)$ of the following
- $h = \text{wall height} < H > - \text{total height of unit}$



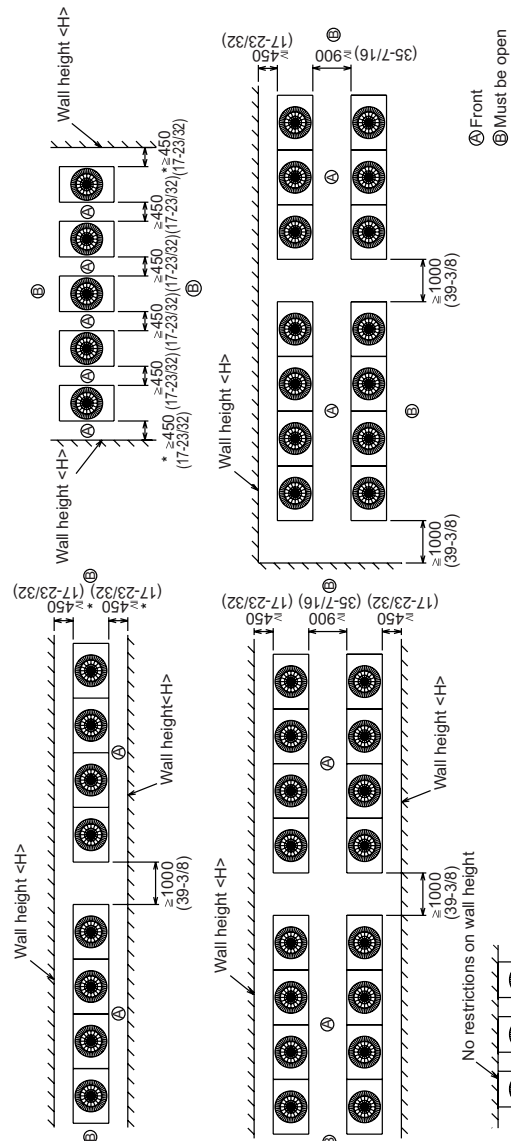
2.Foundation work

- ① When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operation>, piping and wiring routes.
- ② Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
- ③ When down piping and down wiring are performed, be sure that foundation base work does not block the base through holes.



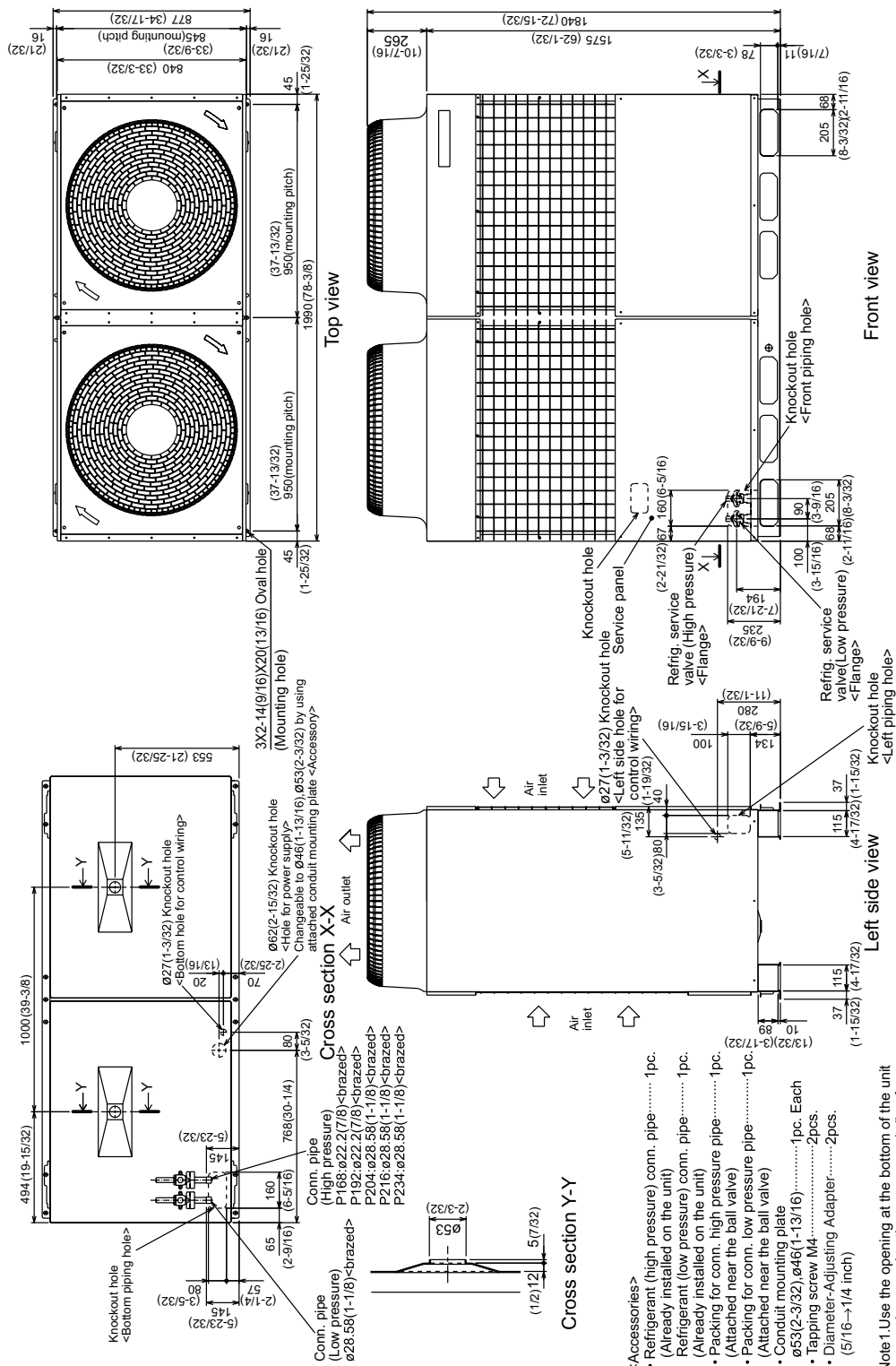
- In case of collective installation and continuous installation

- ① Space required for collective installation and continuous installation:
- When installing several units, provide the space between each block considering passage for air and people.
- ② Open in two directions.
- ③ In case of wall height <H> exceeds total height of unit, add <H> dimension
- (H=wall height <H> -total height of unit) to * marked dimension.
- ④ If there is a wall at both the front and the rear of the unit, install up to four units consecutively in the side direction and provide a space of 1000(39-3/8) or more as inlet space/passage space for each four units.



PURY-P168,192,204,216,234TGMU-A(-BS)

Drw. : PURY-TGMU_W659657 1/2
Unit : mm(in)



Note 1. Use the opening at the bottom of the unit when running the power supply line from the front or from the side of the unit.

Note 2. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

Note 2. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

Spacing PURY-P168,192,204,216,234TGMU-A-(BS)

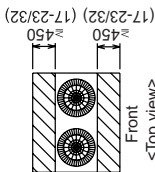
Drw. :PURY-TGMU_W659657 2/2
Unit : mm(in)

1.Space required around unit

• In case of single installation

[Basic rules for spacing the unit]

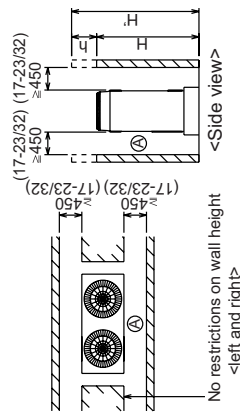
- ① Since the service from the back of unit is required, provide the back space 450(17-23/32) or above as the front.



<Top view>

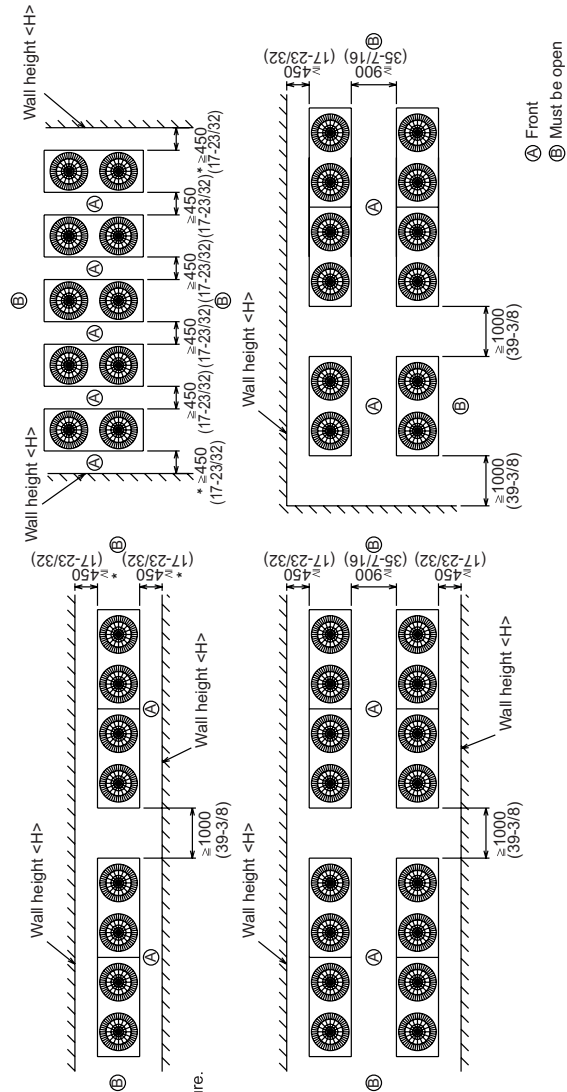
[When inlet air enters from right and left sides of unit]

- ① Wall heights <H> of the front and the back sides shall be within total height of unit.
② When wall height <H> exceeds total height of unit, add <h> dimension to 450(17-23/32) of the following figure.
h=wall height <H>-total height of unit.



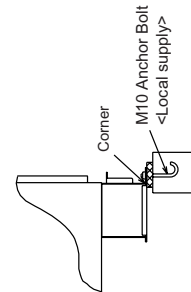
• In case of collective installation and continuous installation

- ① Space required for collective installation and continuous installation:
When installing several units, provide the space between each block considering passage for air and people.
② Open in two directions.
③ In case of wall height <H> exceeds total height of unit, add <h> dimension
(h=wall height <H>-total height of unit) to * marked dimension.
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 1000(39-3/8) or more as inlet space/passage space for each three units.



2.Foundation work

- ① When building the foundation, give full attention to the floor strength, drain water disposal <drain water flows out of the unit, during operation>, piping and wiring routes.
② Be sure that the corners are firmly seated. If the corners are not firmly seated, the installation feet may be bent.
③ When down piping and down wiring are performed, be sure that foundation and base work does not block the base through holes.



PURY-P72,96,108,126,144TGMU-A(-BS)

Drw. :PURY-TGMU_W274647

<Symbol explanation>

Symbol	Name
TB1.3.7	Terminal block
ACCT	AC Current Sensor
DOCT	DC Current Sensor
DCL	DC reactor
52C	Relay (Inverter main circuit)
MF1	Motor Fan Radiator panel
CH11	Crank case heater (Compressor)
21S4a	4-way valve
SV1.2	Solenoid valve (Discharge-suction bypass)
SV4a-d	Solenoid valve (Heat exchanger capacity control)
TH11	Thermistor (Discharge pipe temp. detect)
TH5	Pipe temp. detect (Hex outlet)
TH6	OA temp. detect
TH7	liquid outlet temp. detect
TH7S1.5	at Sub-cool coil
63H1	Radiator panel temp. detect
63H5	High pressure switch
63LS	High pressure sensor
L1.L2	Low pressure sensor
Z20	Choke coil (Transmission)
	Function device
⊕, G	Ground terminal

*1 The broken lines indicate field wiring.

*2 Function according to switch operation.
(SW4-7 CN3D 1-2P and CN3D 1-3P)

CN3D	Compressor	CN3D	NIGHT
1-3P	ON/OFF	1-2P	MODE
OPEN	ON	OPEN	ON
SHORT	OFF	SHORT	OFF

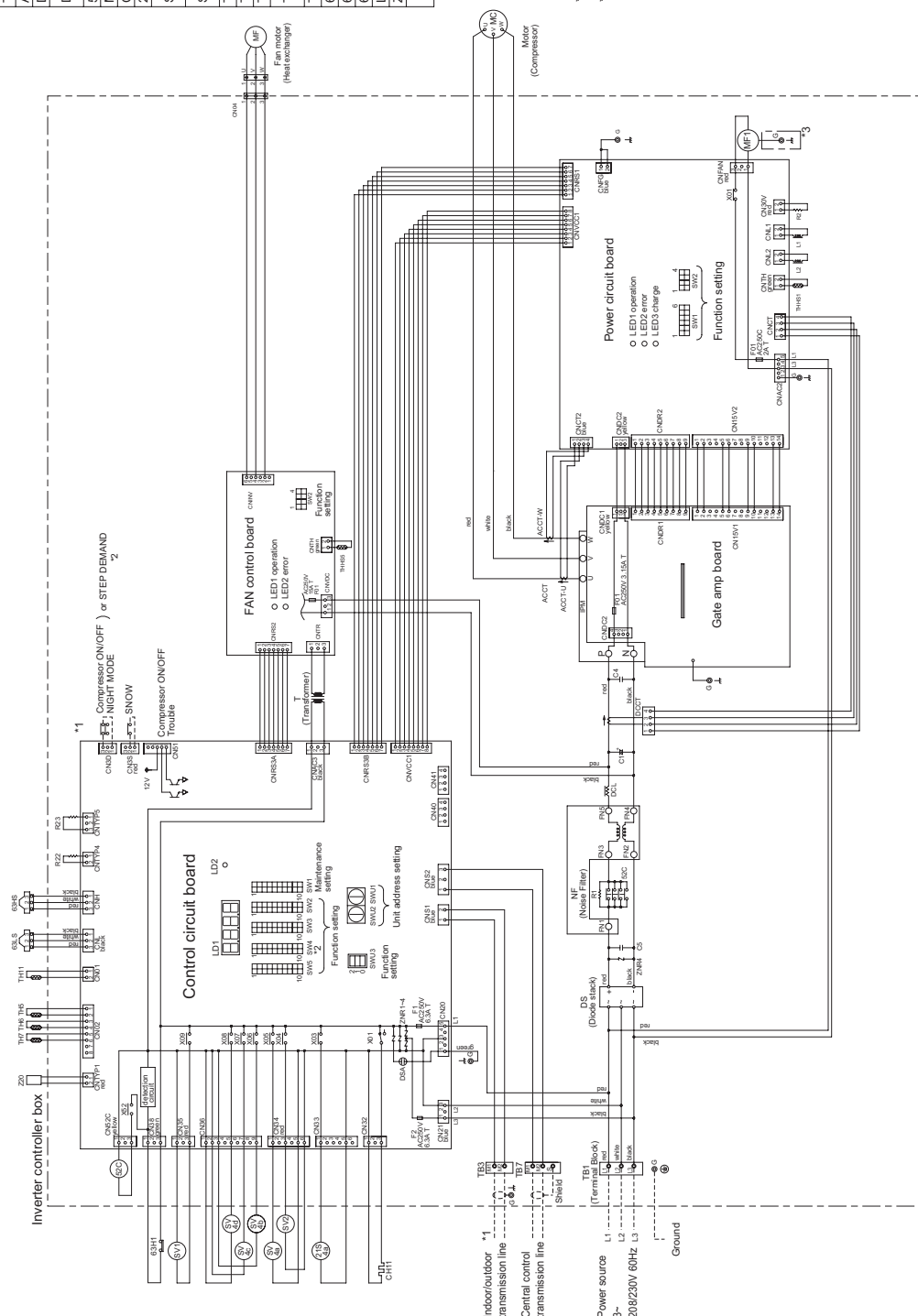
SW4-7 ON (STEP DEMAND)

CN3D 1-2P	CN3D 1-3P
OPEN	OPEN
SHORT	100%
	0%
	50%

<Difference of appliance>

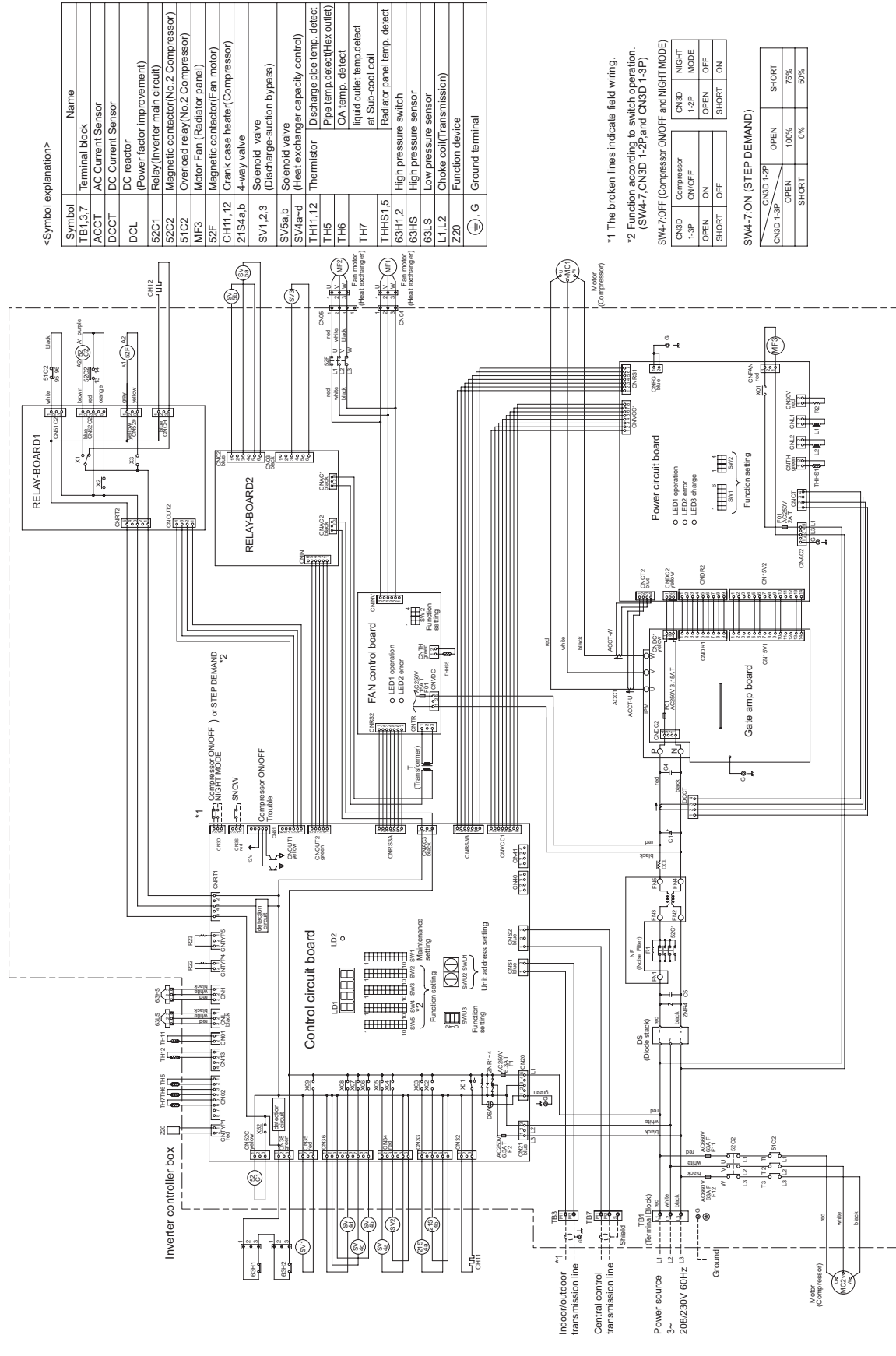
○ exist X not exist

Model	
P72/96/108	○
P126/144	X

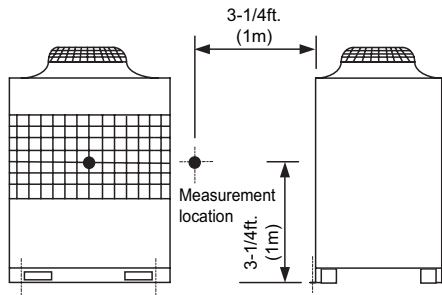


PURY-P168,192,204,216,234TGMU-A(-BS)

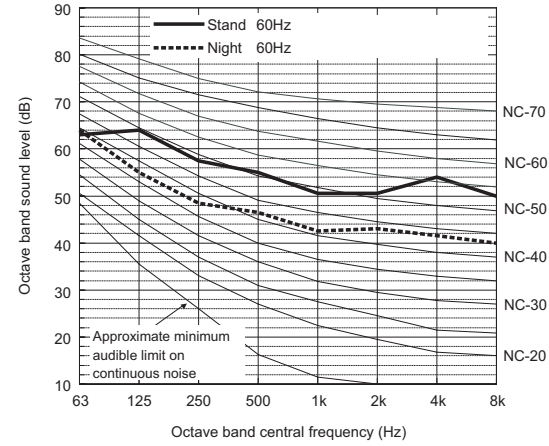
Drw.:PURY-TGMU_W274648



Measurement condition PURY-P72,96,108,126,144TGMU-A(-BS)



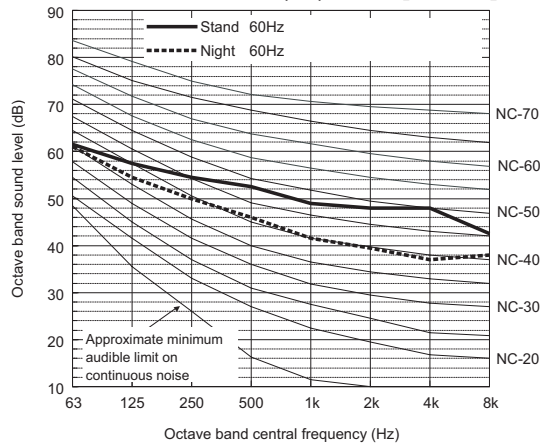
Sound level of PURY-P108TGMU-A(-BS) Ref.:NC_PURY-P108TGMU_WYNB0-4273



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	63.0	64.0	57.5	55.0	50.5	50.5	54.0	50.0	60.0
Night Mode	60Hz	64.0	55.0	48.5	46.5	42.5	43.0	41.5	40.0	51.0

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

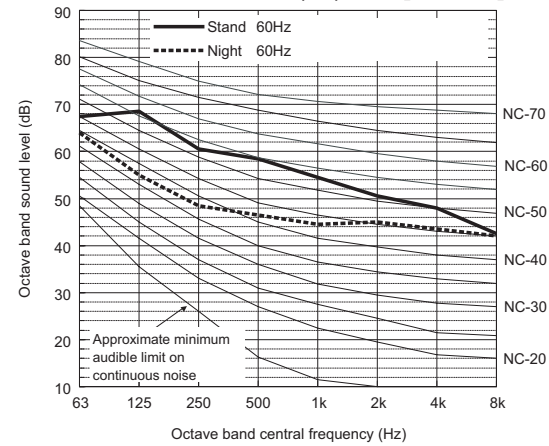
Sound level of PURY-P72TGMU-A(-BS) Ref.:NC_PURY-P72TGMU_WYNB0-4271



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	61.5	57.5	54.5	52.5	49.0	48.0	42.5	56.0	
Night Mode	60Hz	61.0	54.5	50.0	46.0	41.5	39.5	37.0	38.0	49.0

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

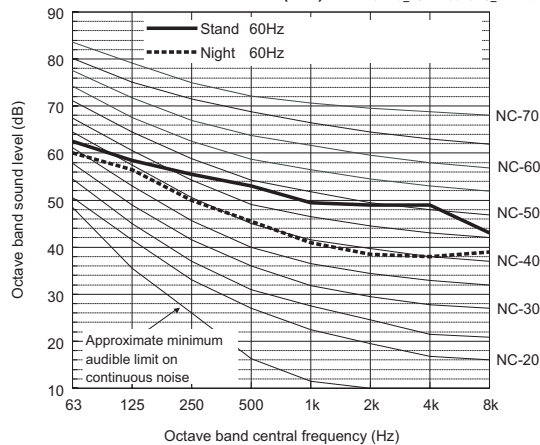
Sound level of PURY-P126TGMU-A(-BS) Ref.:NC_PURY-P126TGMU_WYNB0-4274



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	67.5	68.5	60.5	58.5	54.5	50.5	48.0	42.5	61.0
Night Mode	60Hz	64.0	55.0	48.5	46.5	44.5	45.0	43.5	42.0	52.0

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

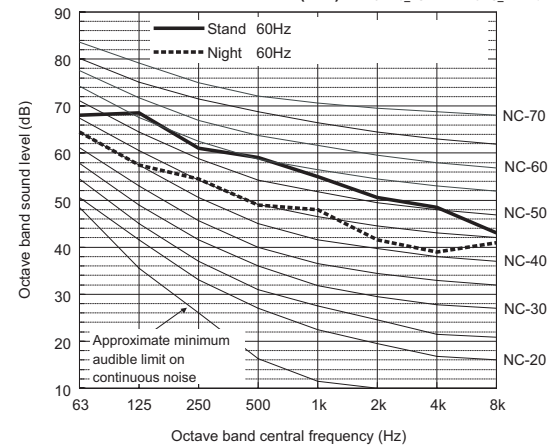
Sound level of PURY-P96TGMU-A(-BS) Ref.:NC_PURY-P96TGMU_WYNB0-4272



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	62.5	58.5	55.5	53.0	49.5	49.0	43.0	57.0	
Night Mode	60Hz	60.0	56.5	50.0	45.5	41.0	38.5	39.0	49.0	

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

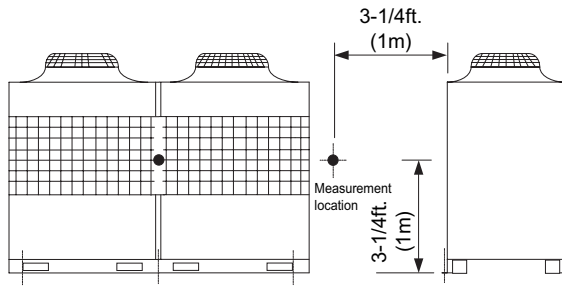
Sound level of PURY-P144TGMU-A(-BS) Ref.:NC_PURY-P144TGMU_WYNB0-4275



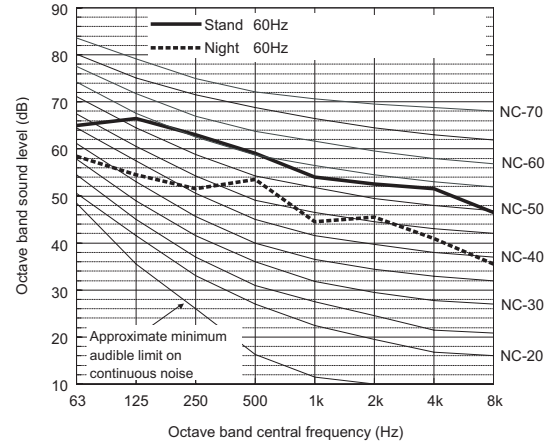
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	68.0	68.5	61.0	59.0	55.0	50.5	48.5	43.0	61.0
Night Mode	60Hz	64.5	57.5	54.5	49.0	48.0	41.5	39.0	41.0	53.0

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

Measurement condition PURY-P168,192,204,216,234TGMU-A(-BS)



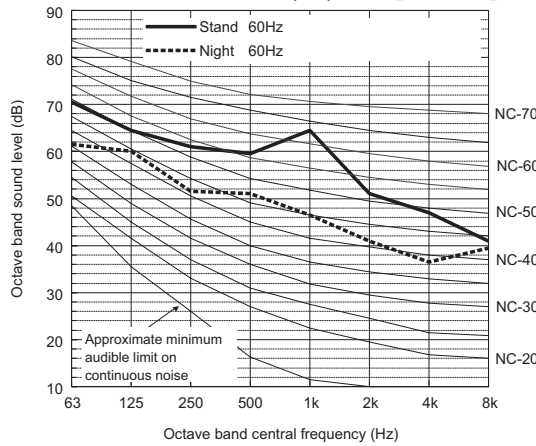
Sound level of PURY-P204TGMU-A(-BS) Ref.:NC_PURY-P204TGMU_WYNB0-4278



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	65.0	66.5	63.0	59.0	54.0	52.5	51.5	46.5	62.0
Night Mode	60Hz	58.5	54.5	51.5	53.5	44.5	45.5	41.0	35.5	54.0

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

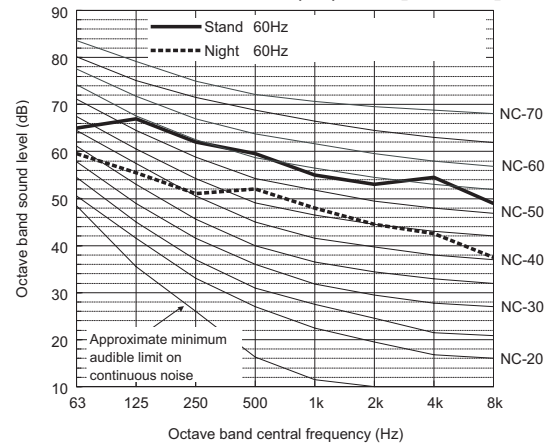
Sound level of PURY-P168TGMU-A(-BS) Ref.:NC_PURY-P168TGMU_WYNB0-4276



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	70.5	64.5	61.0	59.5	64.5	51.0	47.0	41.0	61.0
Night Mode	60Hz	61.5	60.0	51.5	51.0	46.5	41.0	36.5	39.5	53.0

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

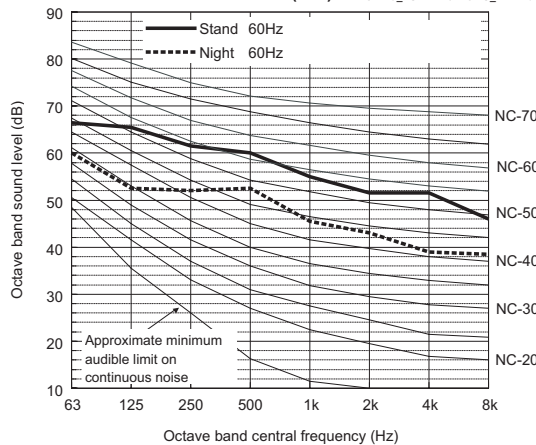
Sound level of PURY-P216TGMU-A(-BS) Ref.:NC_PURY-P216TGMU_WYNB0-4279



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	65.0	67.0	62.0	59.5	55.0	53.0	54.5	49.0	62.5
Night Mode	60Hz	59.5	55.5	51.0	52.0	48.0	44.5	42.5	37.5	54.0

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

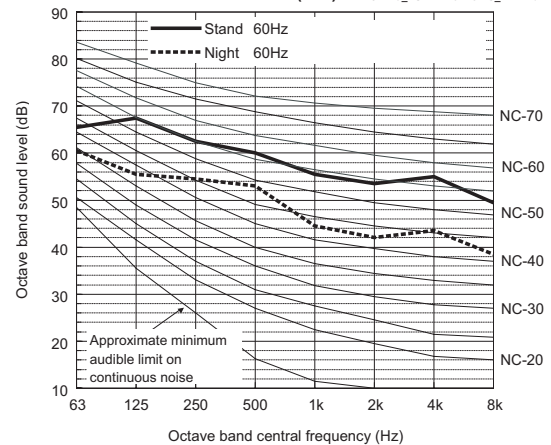
Sound level of PURY-P192TGMU-A(-BS) Ref.:NC_PURY-P192TGMU_WYNB0-4277



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	66.5	65.5	61.5	60.0	55.0	51.5	51.5	46.0	62.0
Night Mode	60Hz	60.0	52.5	52.0	52.5	45.5	43.0	39.0	38.5	53.0

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

Sound level of PURY-P234TGMU-A(-BS) Ref.:NC_PURY-P234TGMU_WYNB0-4280

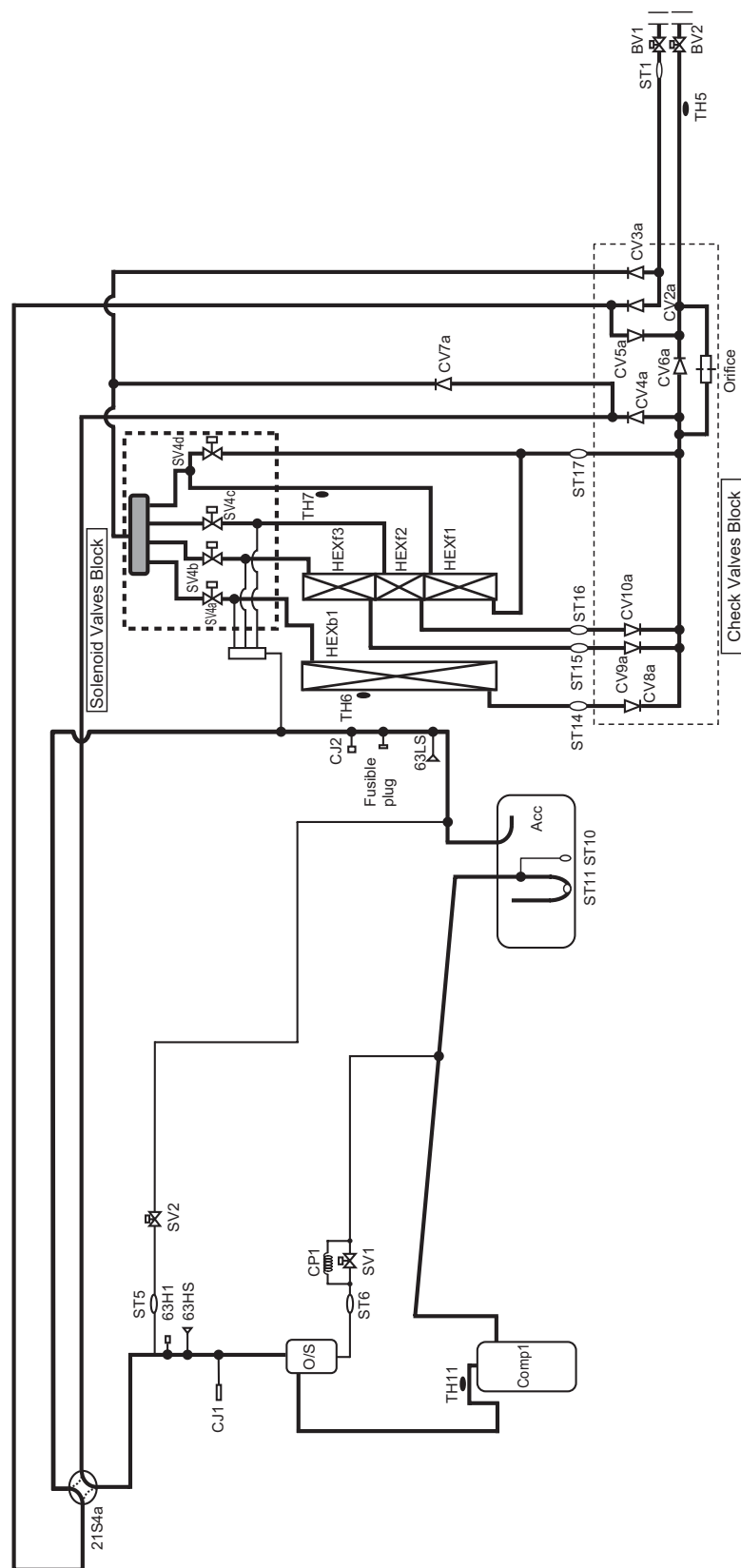


		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	65.5	67.5	62.5	60.0	55.5	53.5	55.0	49.5	63.0
Night Mode	60Hz	60.5	55.5	54.5	53.0	44.5	42.0	43.5	38.5	54.0

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

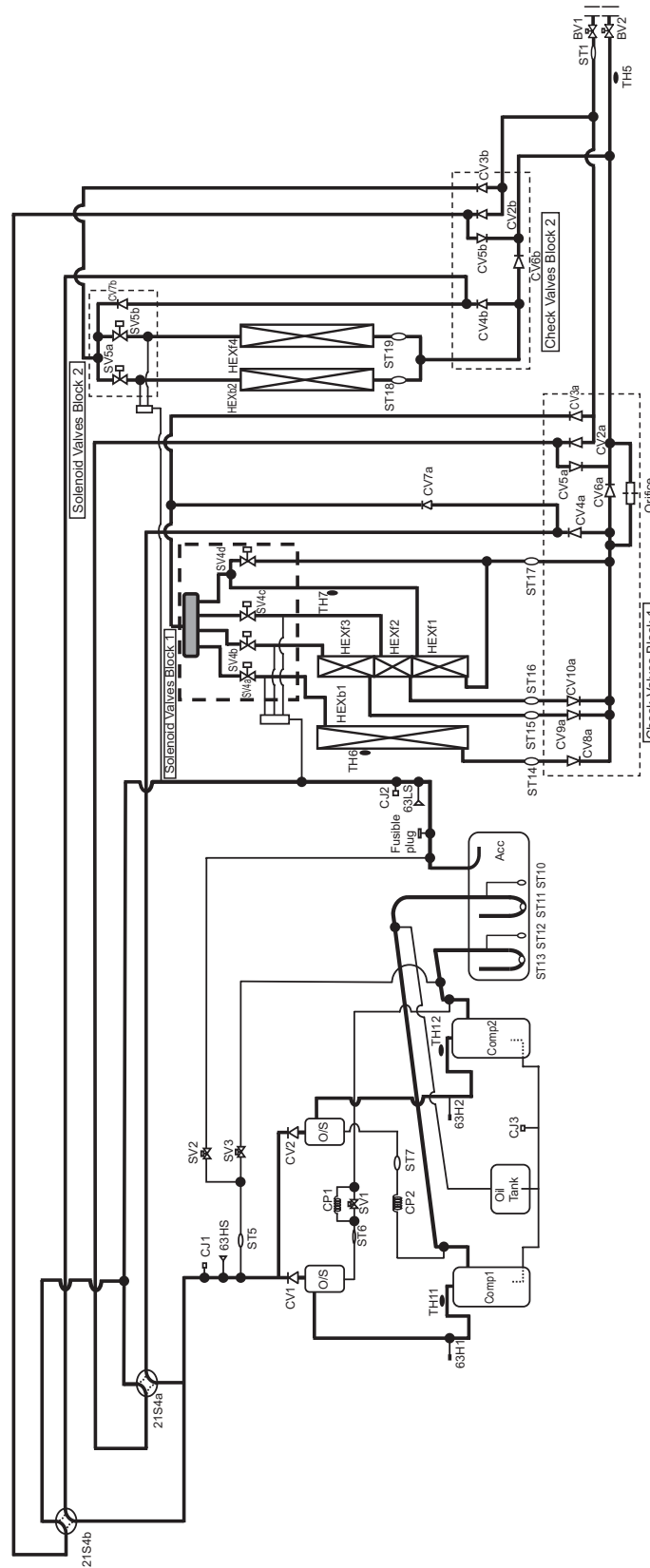
PURY-P72,96,108,126,144TGMU-A(-BS)

Drw. : RC_PURY-P72-144TGMU



PURY-P168,192,204,216,234TGMU-A(-BS)

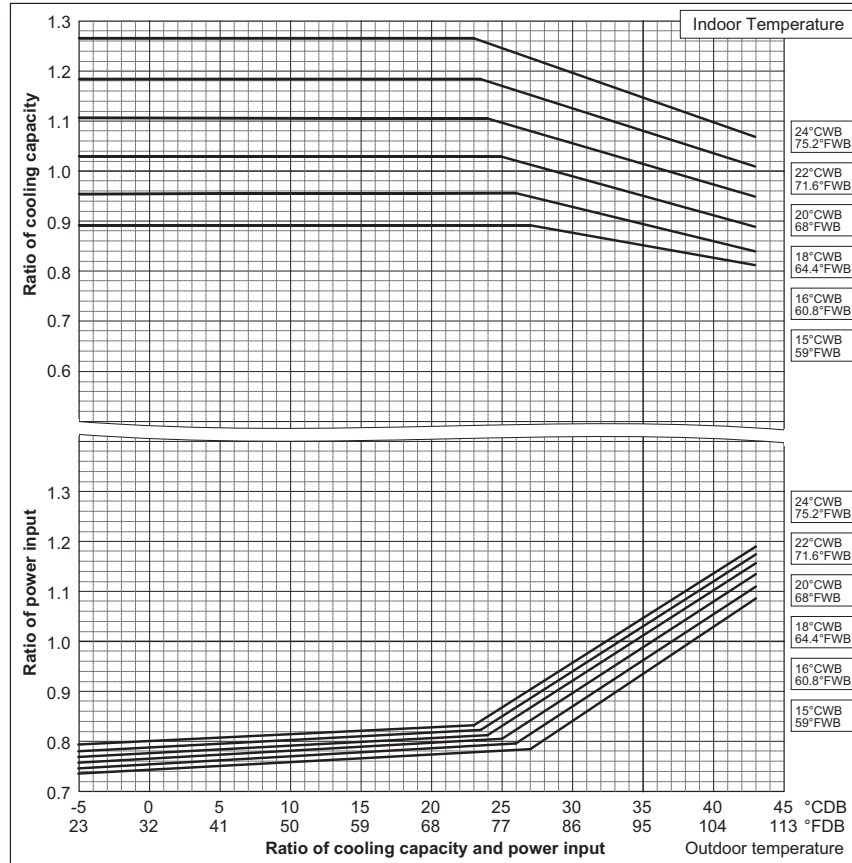
Drw. : RC_PURY-P168-234TGMU



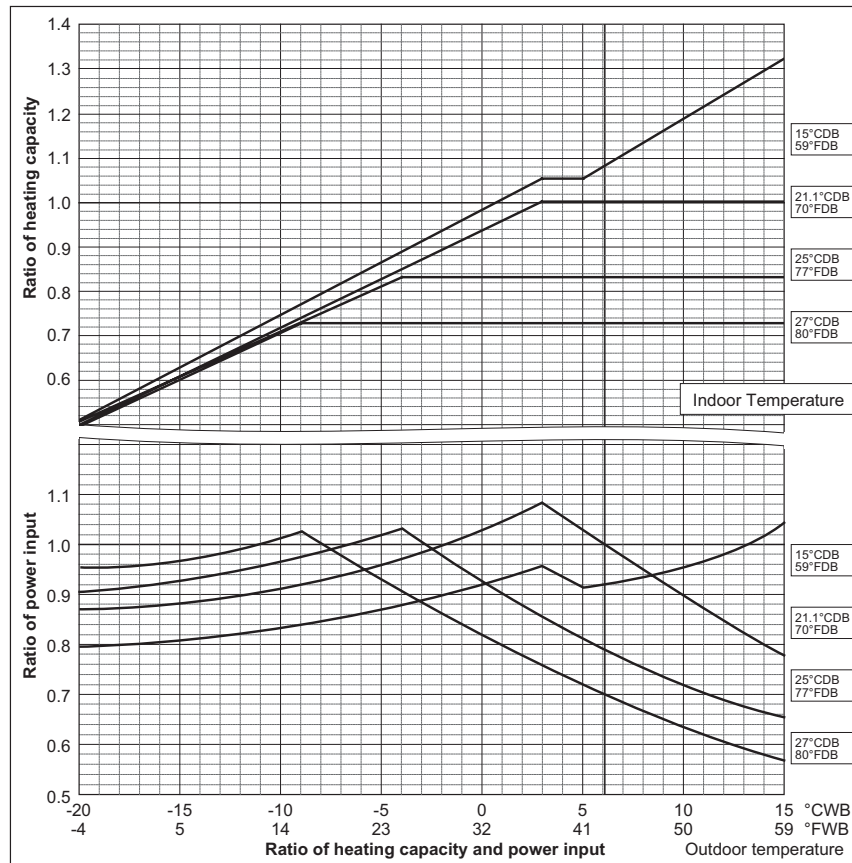
6-1. Correction by temperature

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

	PURY-	P72TGMU	P96TGMU
Nominal Cooling Capacity	kW	21.1	28.1
	BTU/h	72,000	96,000
Input	kW	6.48	8.67



	PURY-	P72TGMU	P96TGMU
Nominal Heating Capacity	kW	23.4	31.7
	BTU/h	80,000	108,000
Input	kW	6.33	8.56



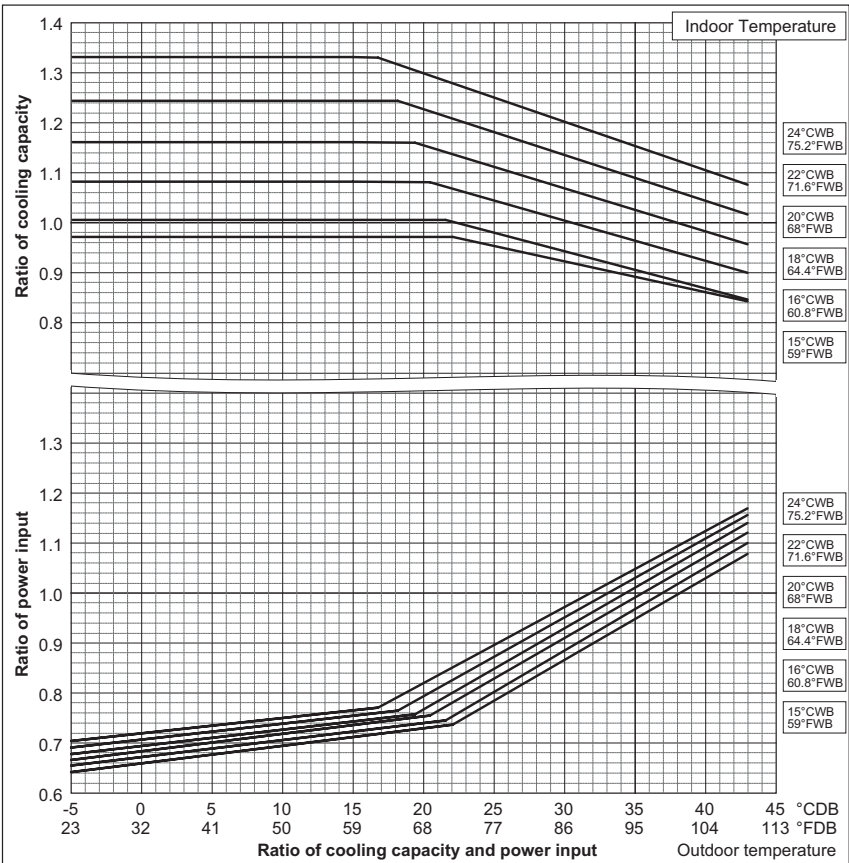
Ref:CbT_PURY-P72-96TGMU

6. CAPACITY TABLES

DATA U3

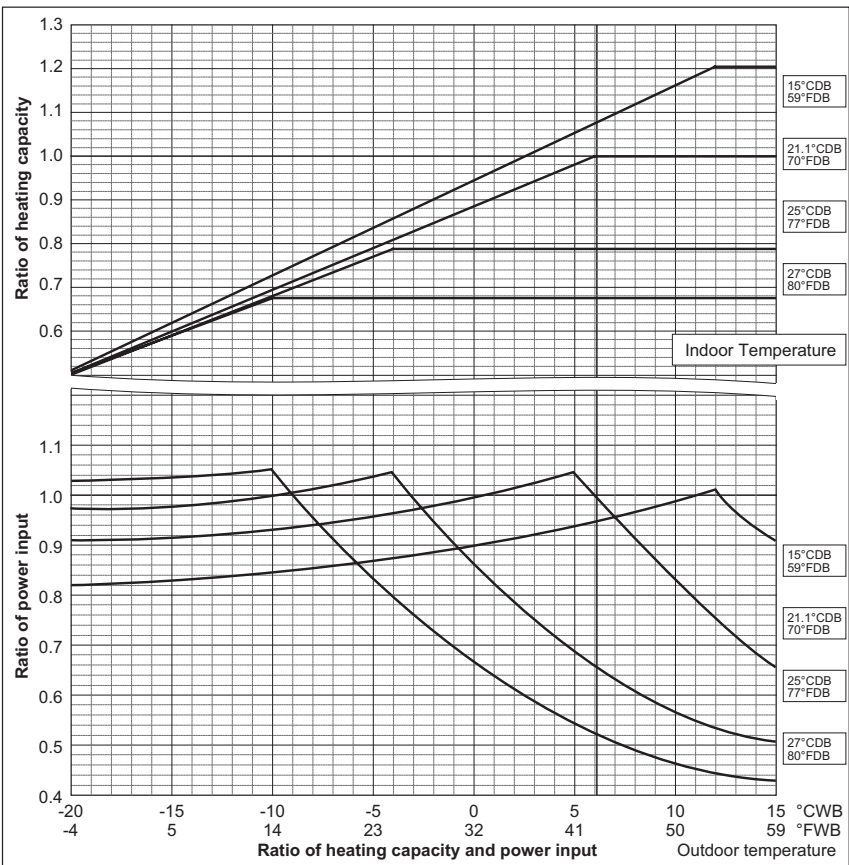
PURY-		P108TGMU	P126TGMU
Nominal Cooling Capacity	kW	31.7	36.9
	BTU/h	108,000	126,000
Input	kW	9.73	11.36

PURY-		P144TGMU
Nominal Cooling Capacity	kW	42.2
	BTU/h	144,000
Input	kW	14.20



PURY-		P108TGMU	P126TGMU
Nominal Heating Capacity	kW	35.2	41.0
	BTU/h	120,000	140,000
Input	kW	9.92	11.67

PURY-		P144TGMU
Nominal Heating Capacity	kW	46.9
	BTU/h	160,000
Input	kW	13.67



Ref:CbT_PURY-P108-144TGMU

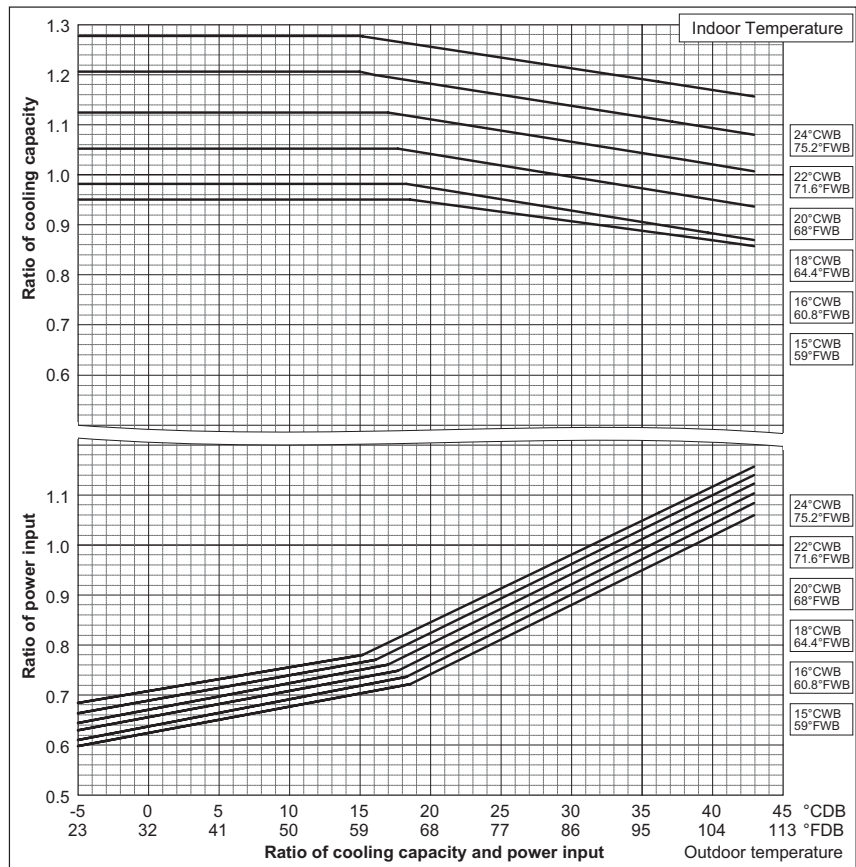
6. CAPACITY TABLES

DATA U3

PURY-	P168TGMU	P192TGMU
Nominal Cooling Capacity	kW 49.2	56.3
	BTU/h 168,000	192,000
Input	kW 14.97	17.34

PURY-	P204TGMU	P216TGMU
Nominal Cooling Capacity	kW 59.8	63.3
	BTU/h 204,000	216,000
Input	kW 18.71	19.92

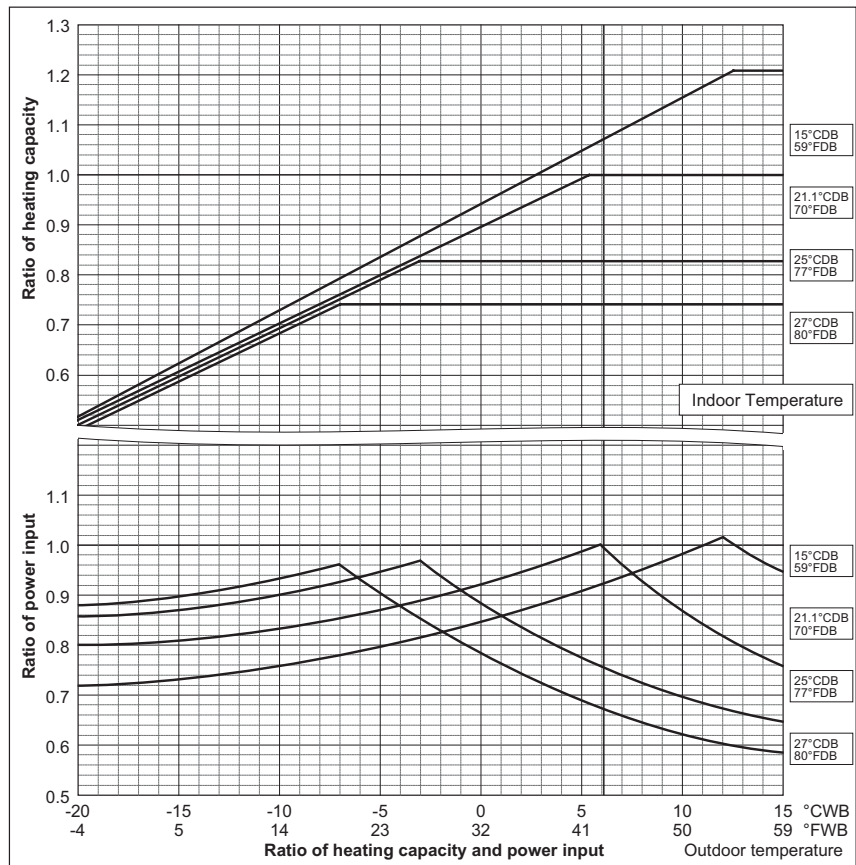
PURY-	P234TGMU
Nominal Cooling Capacity	kW 68.6
	BTU/h 234,000
Input	kW 21.62



PURY-	P168TGMU	P192TGMU
Nominal Heating Capacity	kW 55.1	63.3
	BTU/h 188,000	216,000
Input	kW 15.02	17.48

PURY-	P204TGMU	P216TGMU
Nominal Heating Capacity	kW 66.8	72.7
	BTU/h 228,000	248,000
Input	kW 18.65	21.03

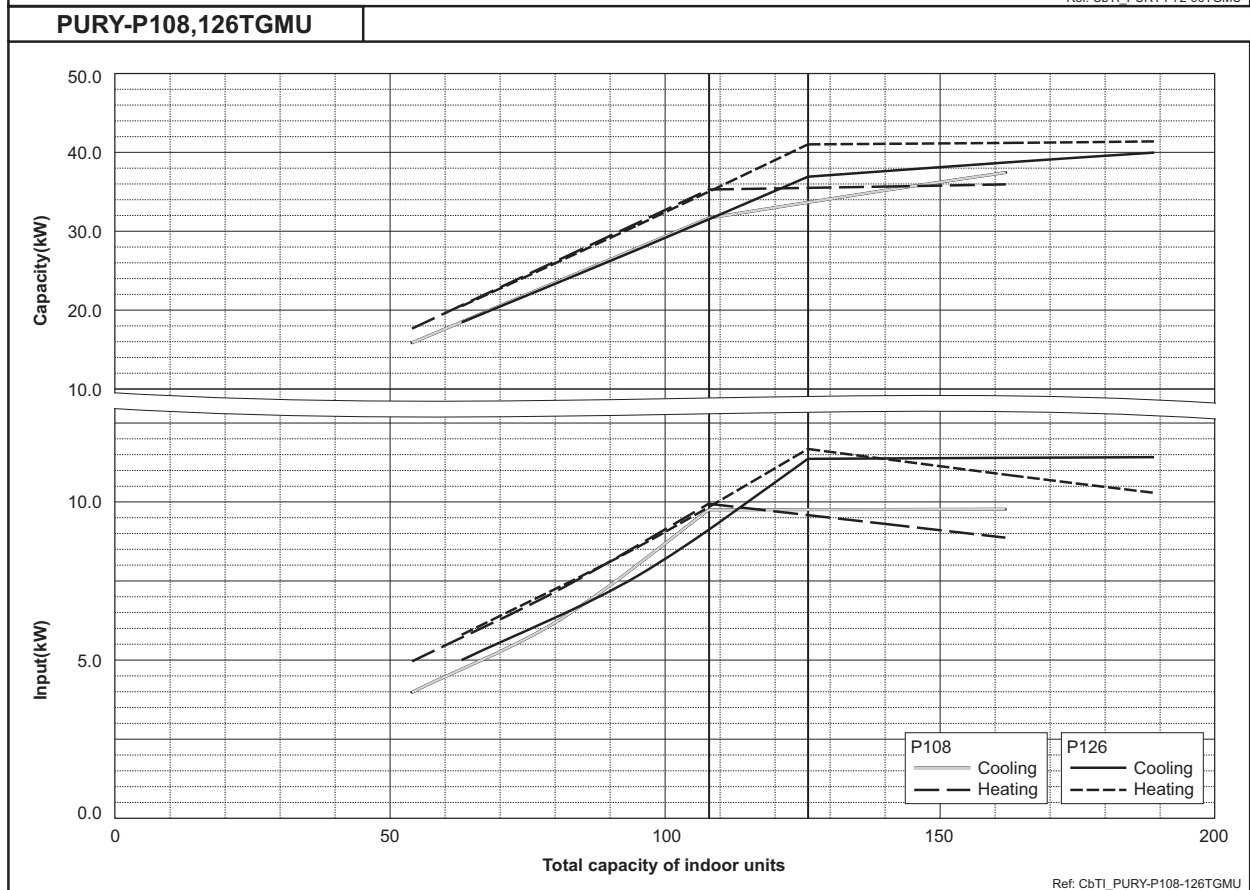
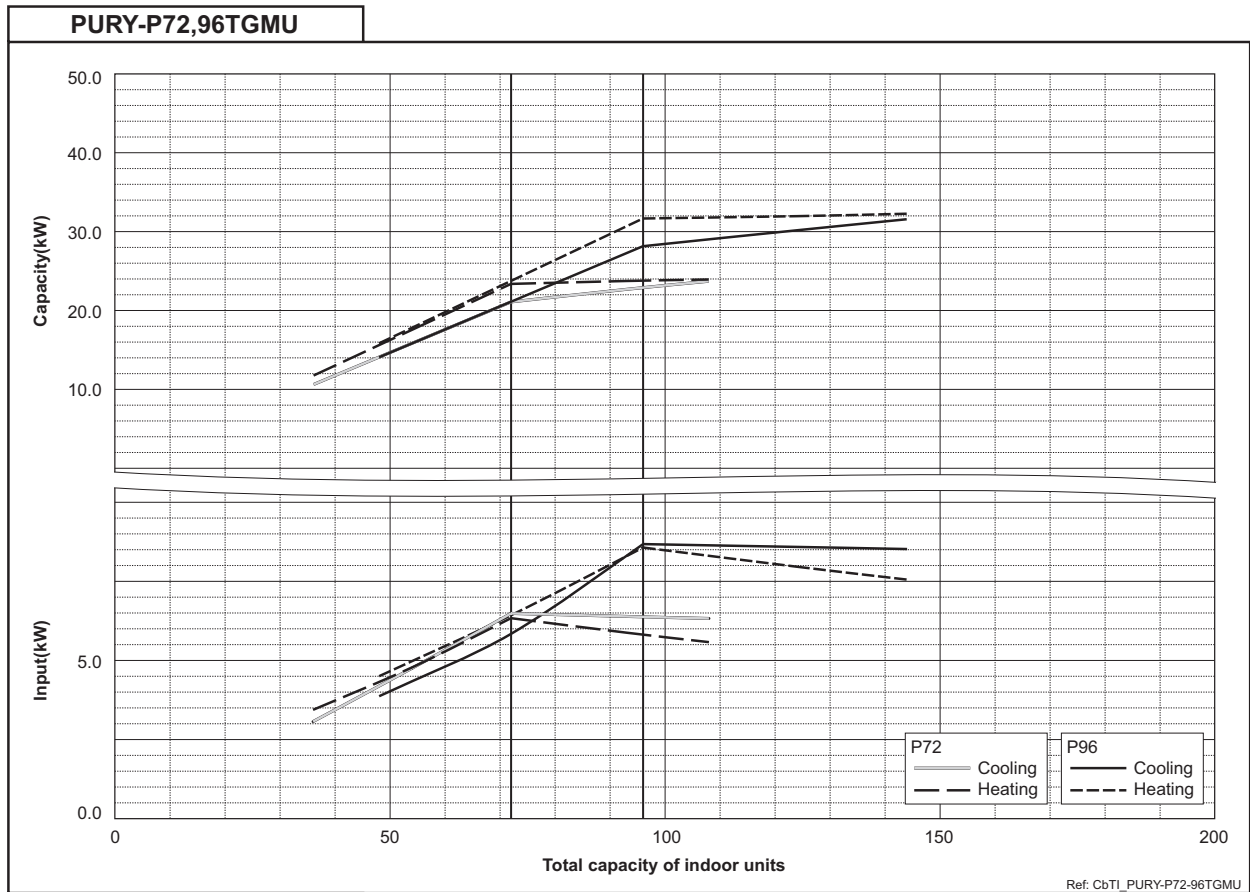
PURY-	P234TGMU
Nominal Heating Capacity	kW 78.5
	BTU/h 268,000
Input	kW 23.11



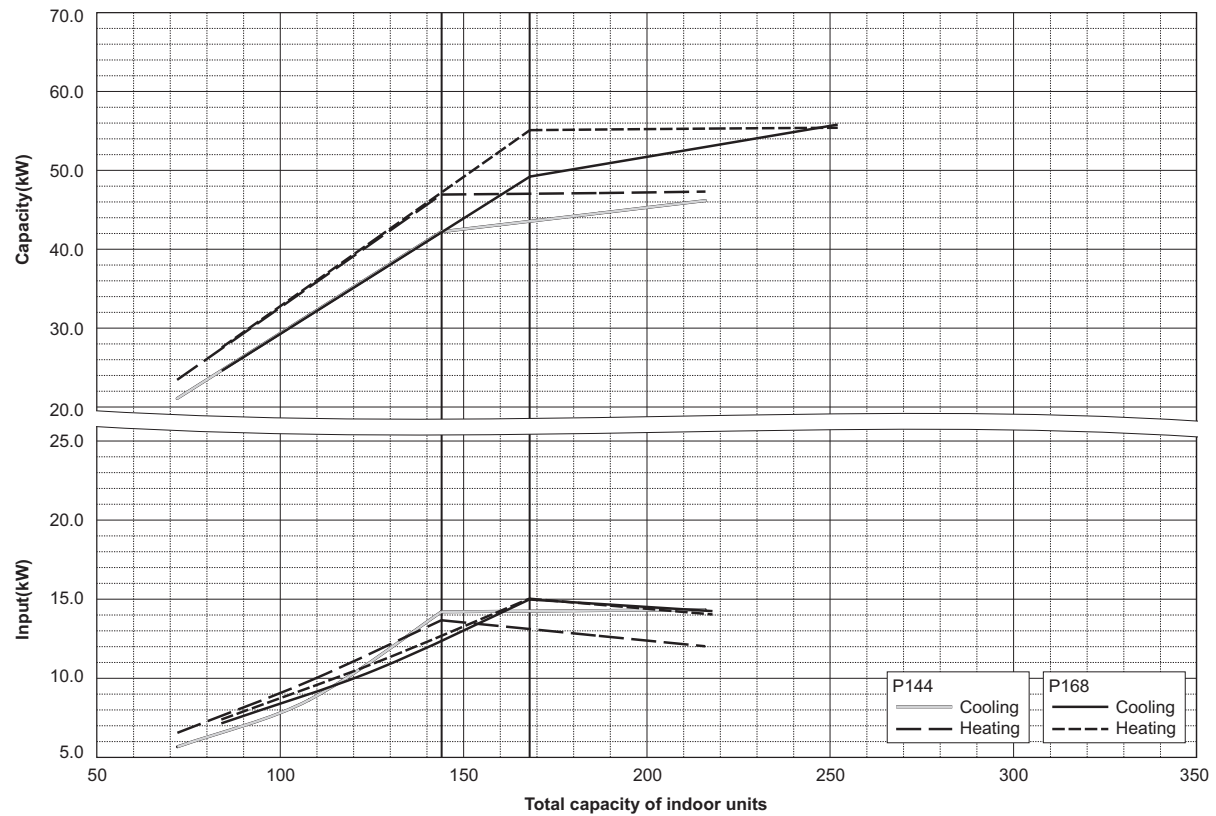
Ref.CbT_PURY-P168-234TGMU

6-2. Correction by total indoor

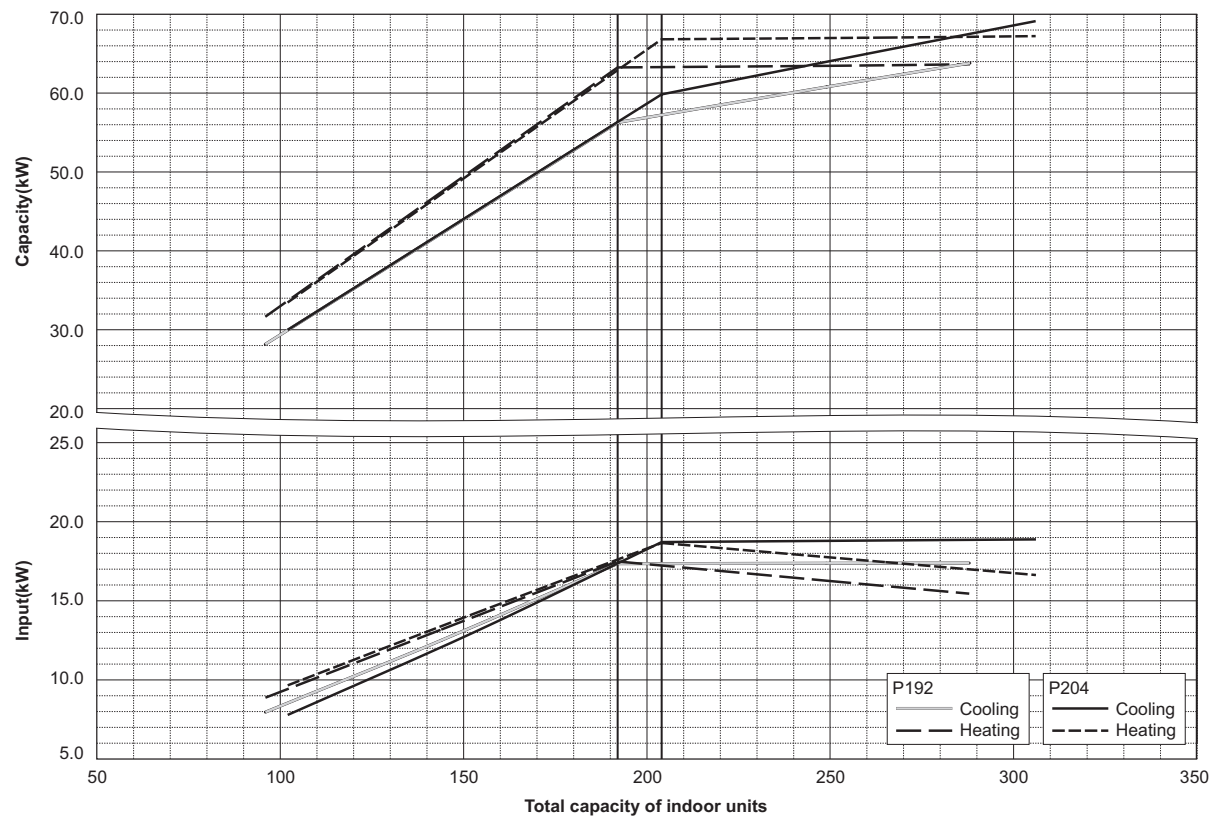
CITY MULTI™ system has different capacity and input at different total capacity of indoor unit connected. Using following tables, the maximum capacity can be observed so as to ensure the system having enough capacity.

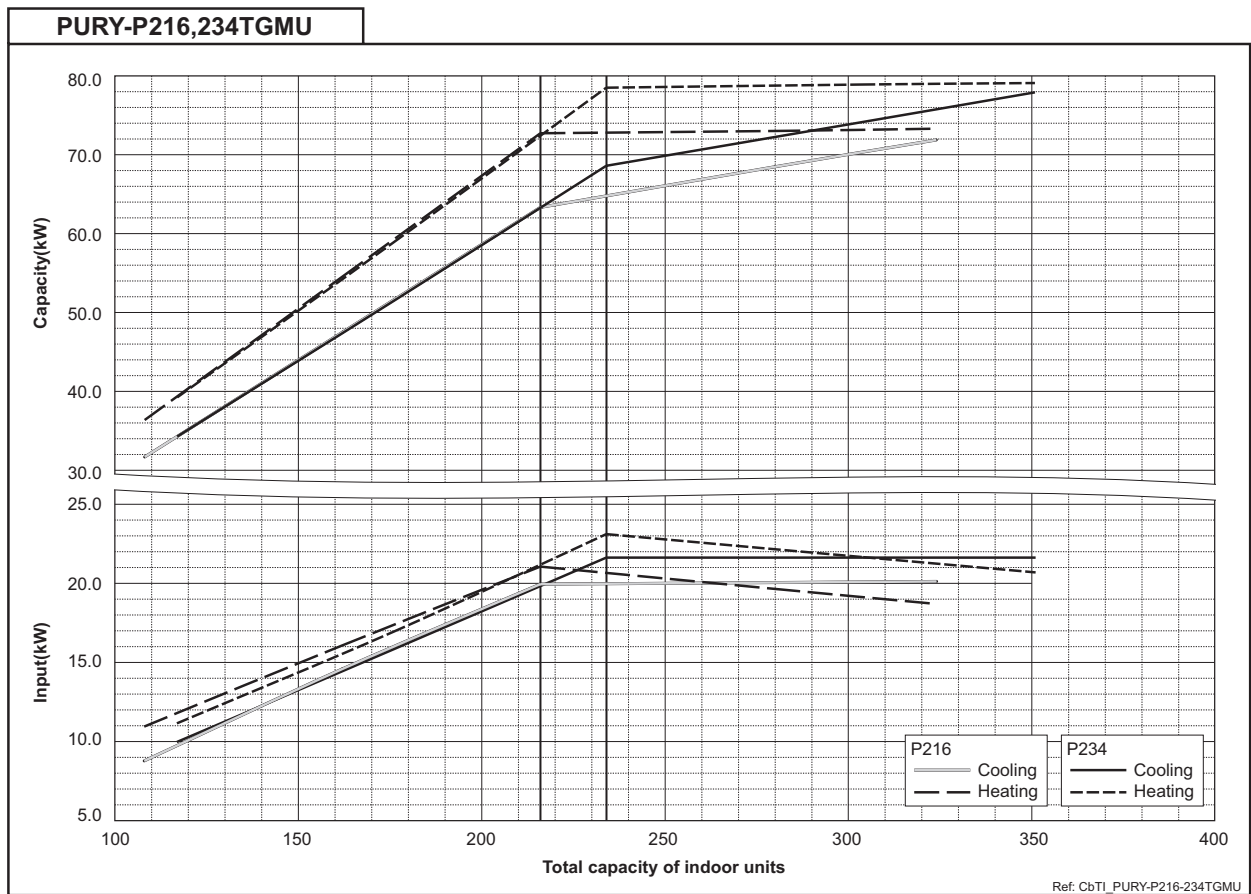


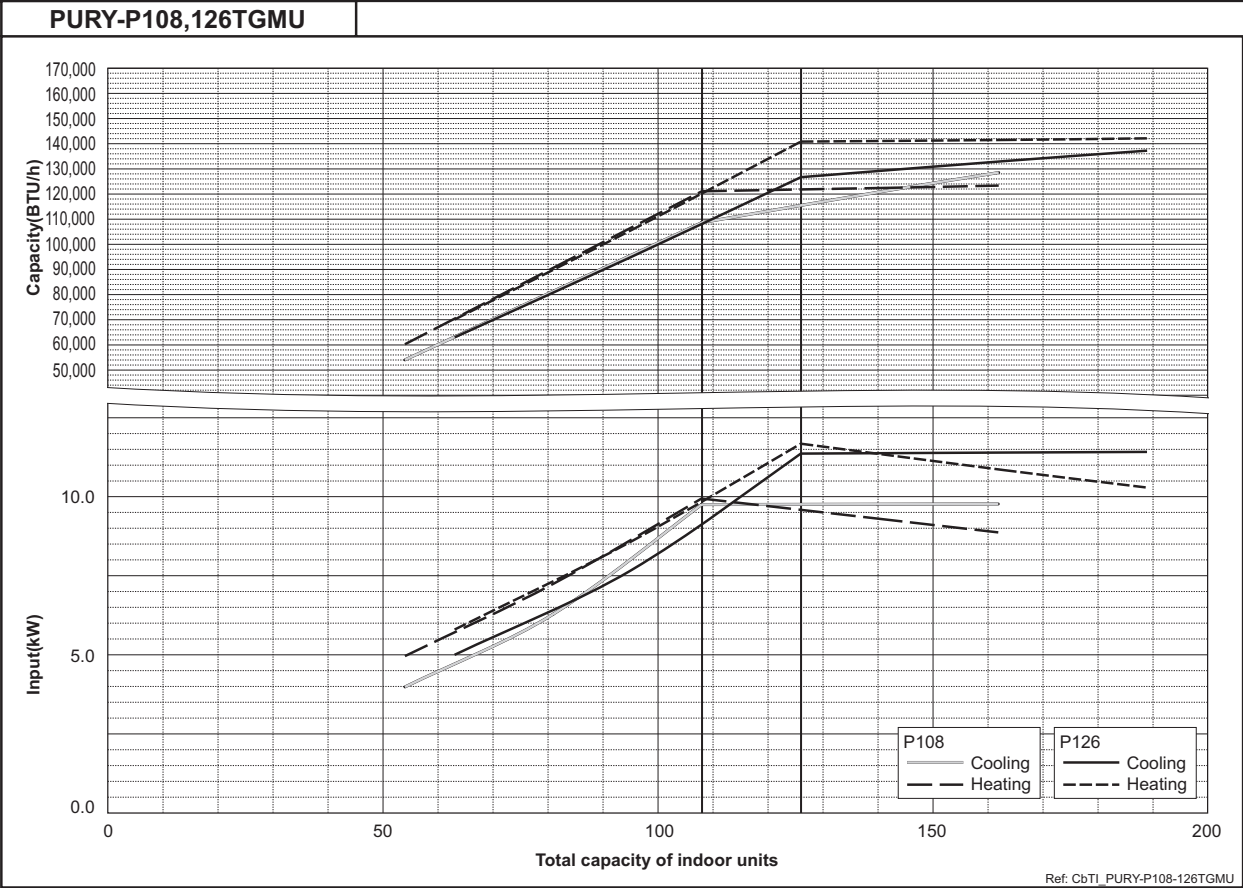
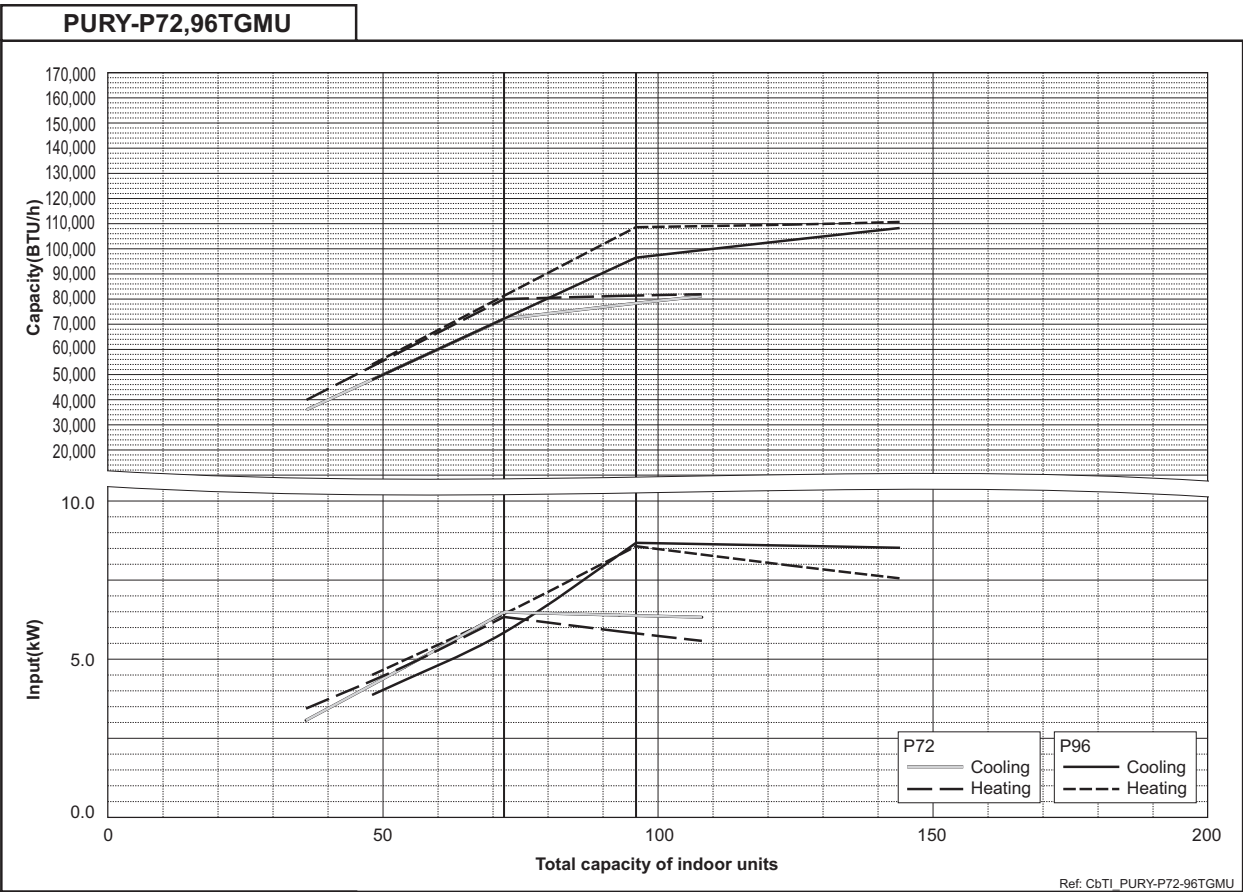
PURY-P144,168TGMU



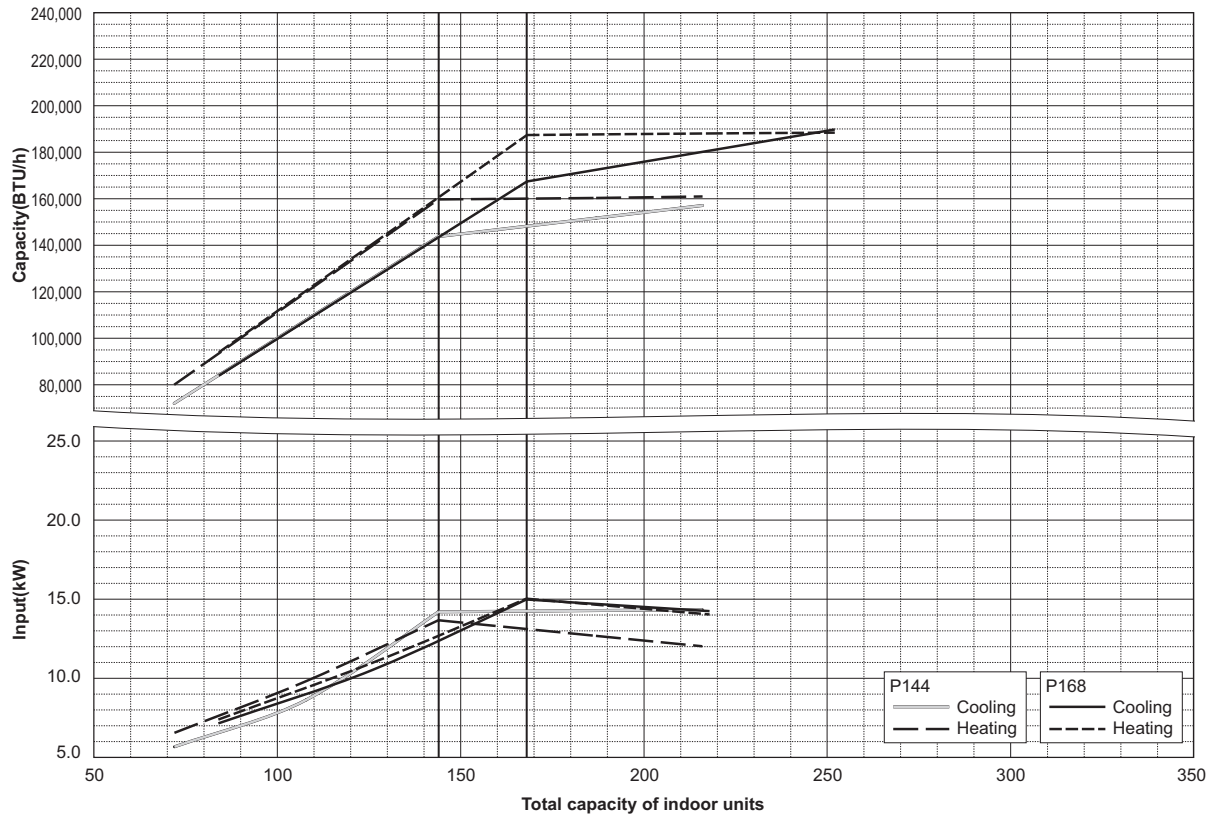
PURY-P192,204TGMU



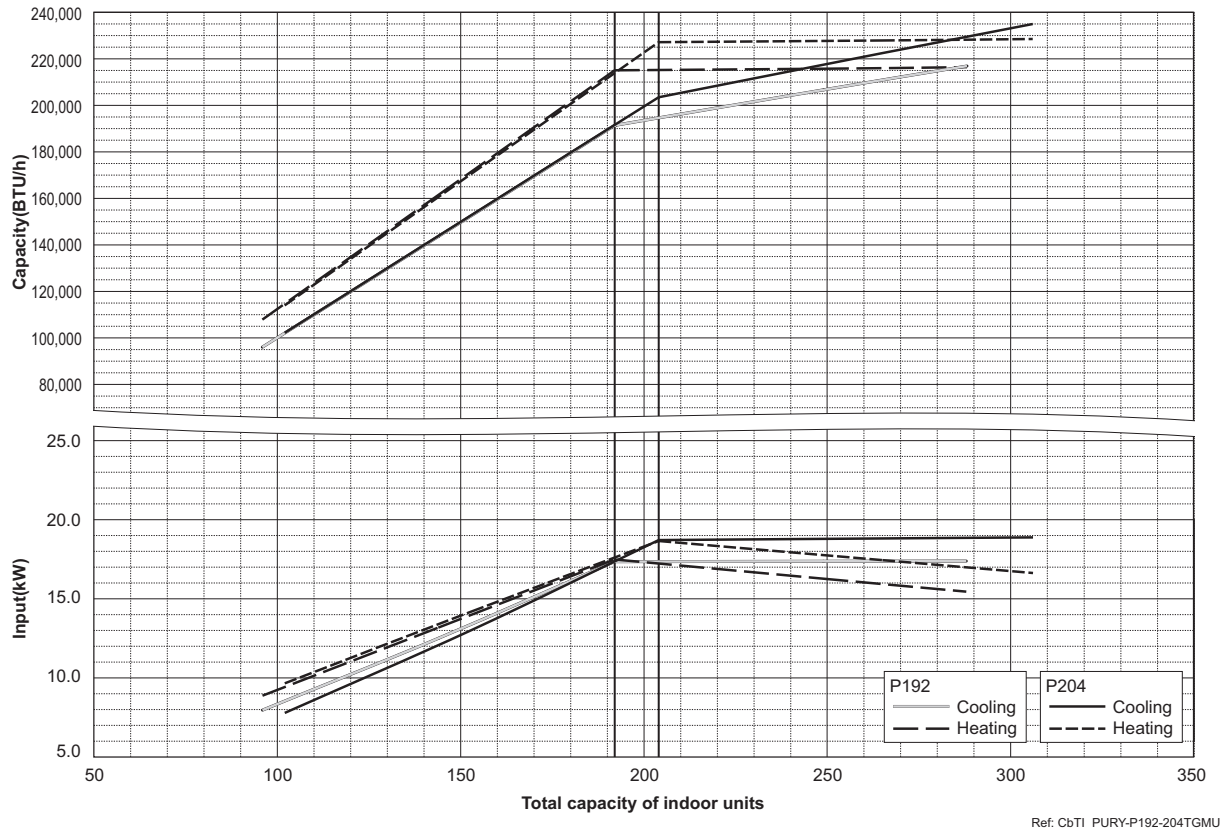


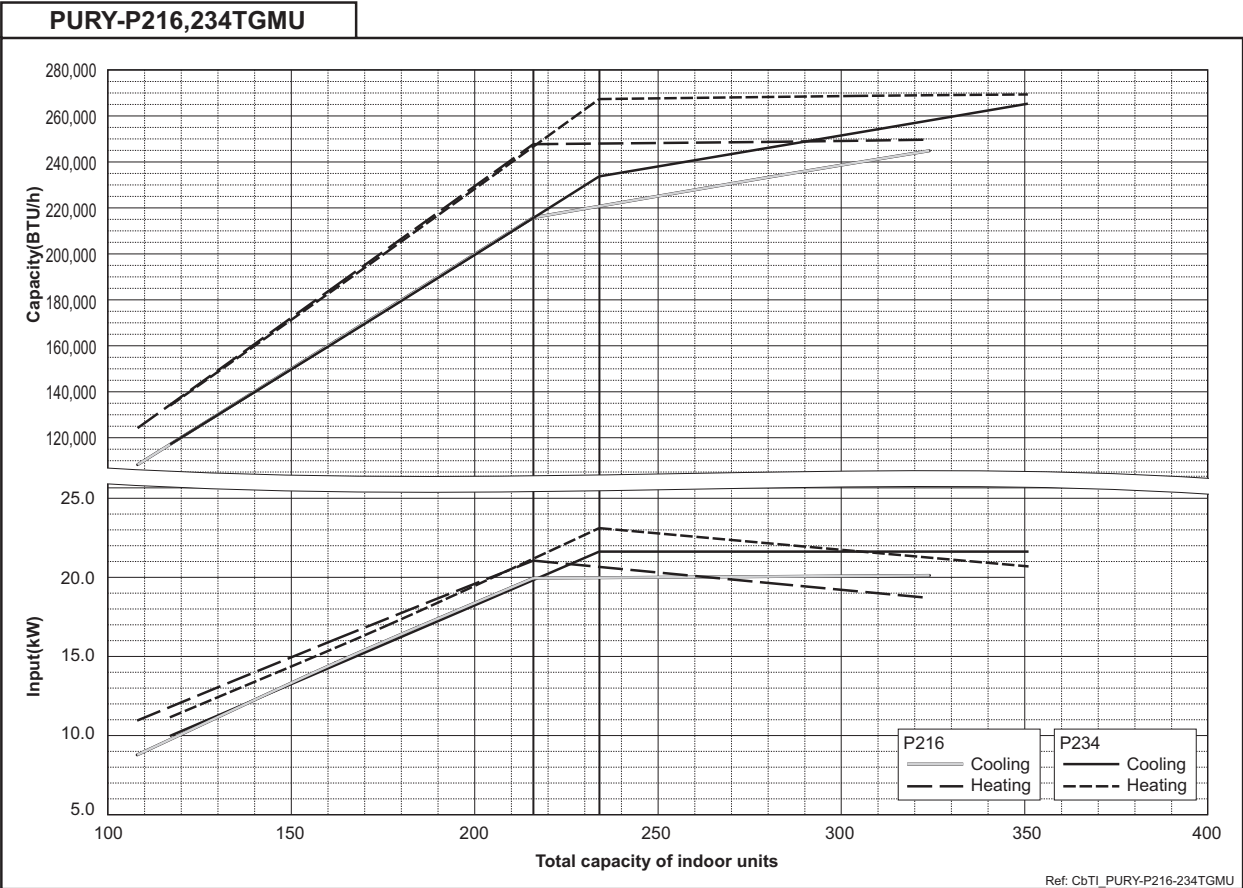


PURY-P144,168TGMU



PURY-P192,204TGMU

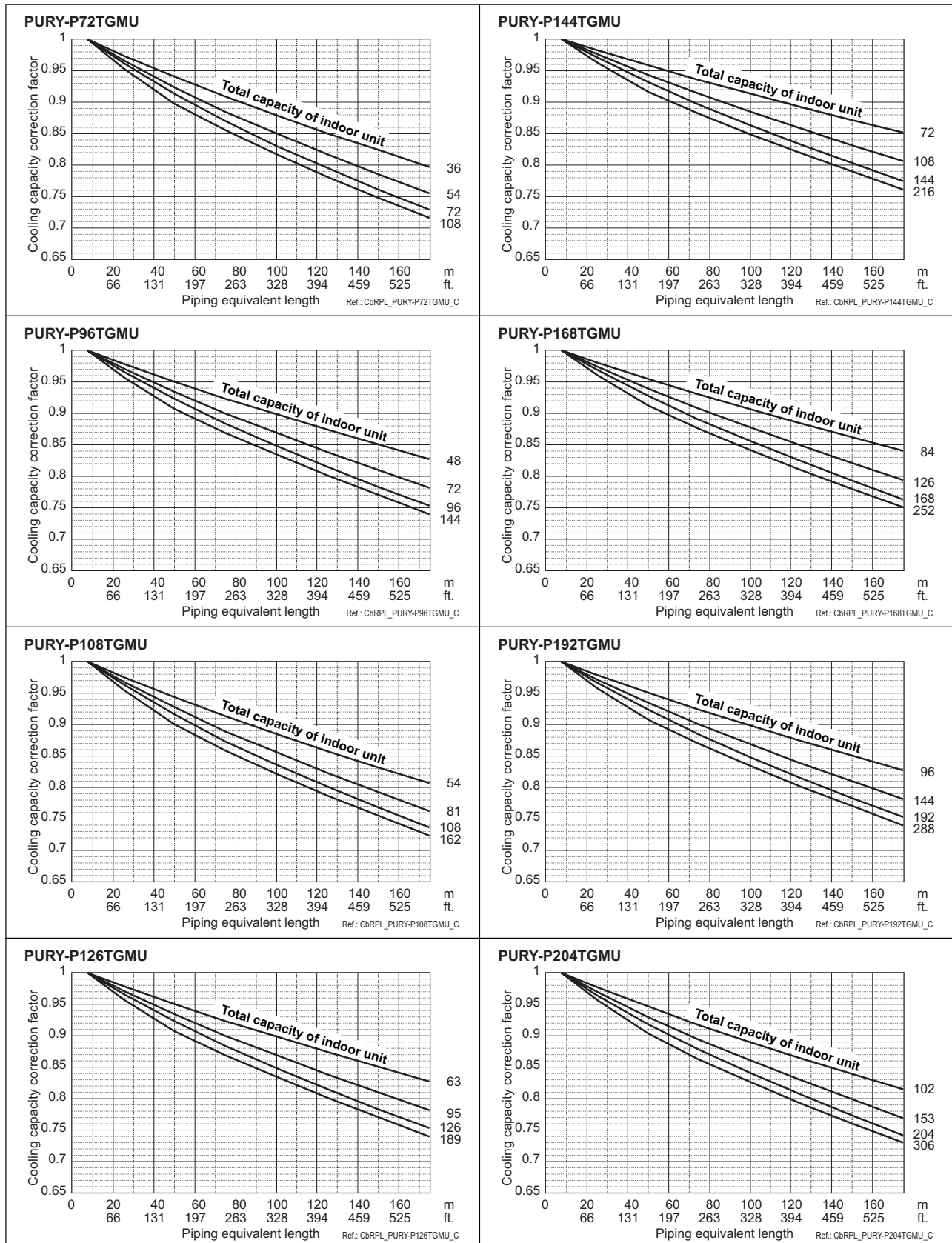


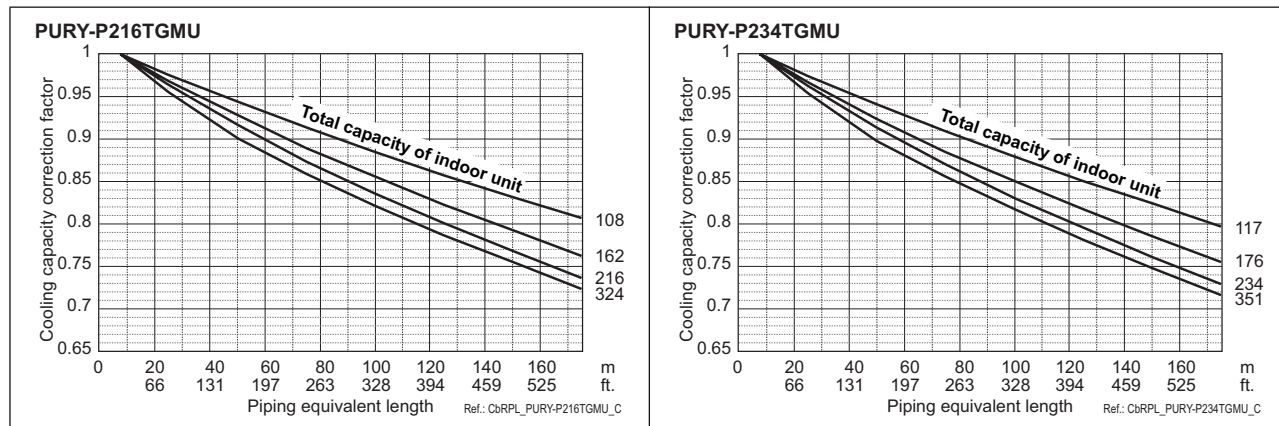


6-3. Correction by refrigerant piping length

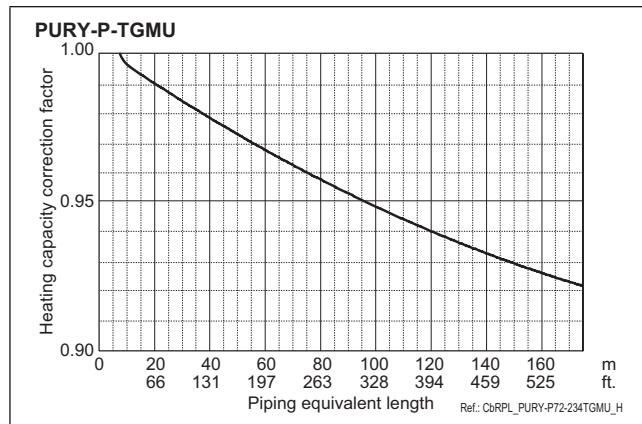
CITY MULTI™ system can extend the piping flexibly within its limitation for the actual situation. Yet, a decrease of cooling/heating capacity could happen correspondently. Using following correction factor according to the equivalent length of the piping shown at 6-3-1 and 6-3-2, the capacity can be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

6-3-1. Cooling capacity correction





6-3-2. Heating capacity correction



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

1 PUHY, PURY-P72TGMU

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.35 x number of bent on the piping) m
+ (1.15 x number of bent on the piping) ft.

2 PUHY, PURY-P96,108TGMU

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.42 x number of bent on the piping) m
+ (1.38 x number of bent on the piping) ft.

3 PUHY, PURY-P126TGMU

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.47 x number of bent on the piping) m
+ (1.54 x number of bent on the piping) ft.

4 PUHY, PURY-P144,168,192,204,216,234TGMU

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.50 x number of bent on the piping) m
+ (1.64 x number of bent on the piping) ft.

Ref.: EPL_TGMU

6-4. Correction at frosting and defrosting

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

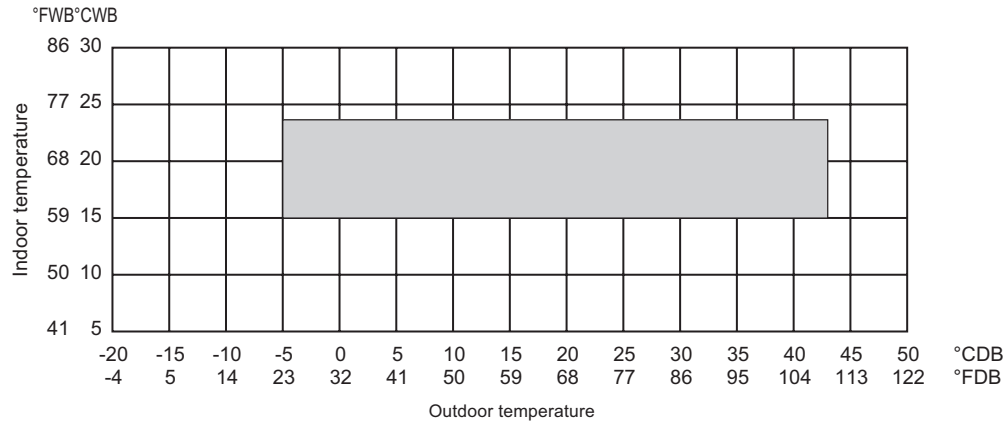
Table of correction factor at frosting and defrosting

Outdoor inlet air temp. °CWB	6	4	2	1	0	-2	-4	-6	-8	-10
Outdoor inlet air temp. °FWB	43	39	36	34	32	28	25	21	18	14
PUHY,PURY-P72,96TGMU	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95
PUHY,PURY-P108TGMU	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95
PUHY,PURY-P126,144TGMU	1.00	0.95	0.90	0.87	0.88	0.89	0.90	0.95	0.95	0.95
PUHY,PURY-P168,192TGMU	1.00	0.98	0.89	0.86	0.89	0.90	0.92	0.95	0.95	0.95
PUHY,PURY-P204TGMU	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.93
PUHY,PURY-P216,234TGMU	1.00	0.94	0.84	0.86	0.87	0.88	0.90	0.90	0.93	0.93

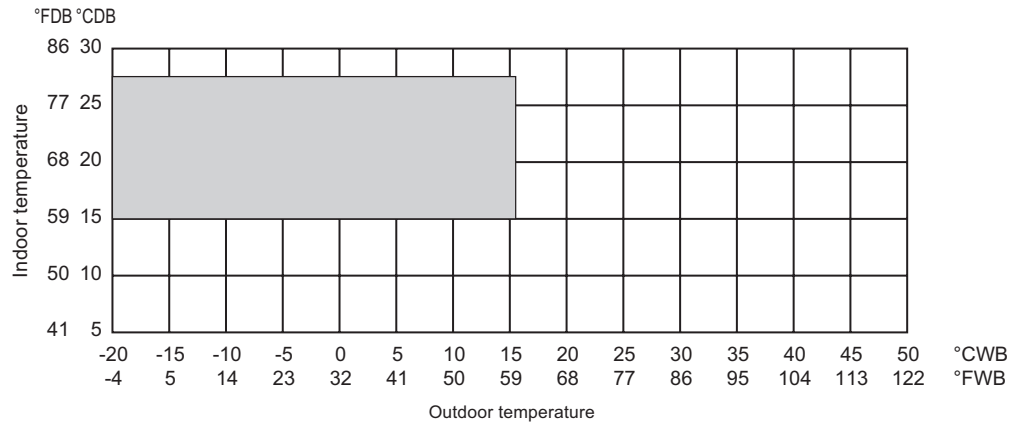
Ref.: CaF_TGMU

6-5. Temp. range of running

• Cooling



• Heating



Ref.: tr-ygm-r2