

OUTDOOR UNITS

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1. SPECIFICATIONS

U11 2nd

Y (K)

Outdoor Model			PUHY-P72TKMU-A (-BS)		
Indoor Model			Non-Ducted	Ducted	
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	BTU/h	72,000		
		kW	21.1		
	(208-230)	Power input	kW	5.06	
		Current input	A	15.6-14.1	
	(Rated)	BTU/h	69,000		
		kW	20.2		
	(208-230)	Power input	kW	4.58	4.79
		Current input	A	14.1-12.7	14.7-13.3
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		
	Outdoor	D.B.	23~115°F (-5~46°C)		
Heating capacity (Nominal)	*2	BTU/h	80,000		
		kW	23.4		
	(208-230)	Power input	kW	5.62	
		Current input	A	17.3-15.6	
	(Rated)	BTU/h	76,000		
		kW	22.3		
	(208-230)	Power input	kW	5.04	5.36
		Current input	A	15.5-14.0	16.5-14.9
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		
Indoor unit	Total capacity	50~130% of outdoor unit capacity			
	Model/Quantity	P06~P72/1~15			
Sound pressure level (measured in anechoic room)	dB <A>	58.0			
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		
Minimum Circuit Ampacity	A	25-23			
Maximum Overcurrent Protection	A	42-38			
FAN	Type x Quantity	Propeller fan x 1			
	Airflow rate	cfm	6,200		
		m ³ /min	175		
		L/s	2,920		
	Control, Driving mechanism	Inverter-control, Brushless DC motor			
	Motor output	kW	0.92		
*3 External static press.	0 in.WG (0 Pa)				
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1			
	Manufacture	AC&R Works, MITSUBISHI ELECTRIC CORPORATION			
	Starting method	Inverter			
	Motor output	kW	5.5 x 1		
	Case heater	kW	-		
	Lubricant	MEL32			
External finish	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>				
External dimension H x W x D	in.	64-31/32 x 36-1/4 x 29-5/32			
	mm	1,650 x 920 x 740			
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			
	Inverter circuit (COMP./FAN)	Over-current protection			
	Fan motor	Thermal switch			
Refrigerant	Type x original charge	R410A x 19 lbs + 13 oz (9.0 kg)			
	Control	LEV and HIC circuit			
Net weight	lbs (kg)	430 (195)			
Heat exchanger	Salt-resistant cross fin & copper tube				
HIC circuit (HIC: Heat Inter-Changer)	Copper pipe, tube-in-tube structure				
Defrosting method	Auto-defrost mode (Reversed refrigerant cycle)				
Drawing	External	KD94R319			
	Wiring	KE94C645			
Standard attachment	Document	Installation Manual			
	Accessory	Details refer to External Drw			
Optional parts	joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010C-G				
Remarks	Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				

Notes: 1.Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F.D.B./67°F.W.B. (26.7°C.D.B./19.4°C.W.B.), Outdoor: 95°F.D.B. (35°C.D.B.) 2.Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F.D.B. (21.1°C.D.B.), Outdoor: 47°F.D.B./43°F.W.B. (8.3°C.D.B./6.1°C.W.B.) 3.External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	Unit converter	
	BTU/h	=kW x 3,412
	cfm	=m ³ /min x 35.31
	lbs	=kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.		*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Y (K)

Outdoor Model		PUHY-P96TKMU-A (-BS)		
Indoor Model		Non-Ducted	Ducted	
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	BTU/h	96,000	
		kW	28.1	
	(208-230)	Power input	kW	7.00
		Current input	A	21.5-19.5
	(Rated)		BTU/h	92,000
			kW	27.0
(208-230)	Power input	kW	6.35	
	Current input	A	19.5-17.7	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)	
Heating capacity (Nominal)	*2	BTU/h	108,000	
		kW	31.7	
	(208-230)	Power input	kW	7.47
		Current input	A	23.0-20.8
	(Rated)		BTU/h	103,000
			kW	30.2
(208-230)	Power input	kW	6.79	
	Current input	A	20.9-18.9	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)	
Indoor unit	Total capacity	50~130% of outdoor unit capacity		
	Model/Quantity	P06~P96/1~20		
Sound pressure level (measured in anechoic room)		dB <A>		
		58.0		
Refrigerant piping diameter	Liquid pipe	in. (mm)		
	Gas pipe	in. (mm)		
		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 90 m)		
		7/8 (22.2) Brazed		
Minimum Circuit Ampacity		A		
		34-31		
Maximum Overcurrent Protection		A		
		57-52		
FAN	Type x Quantity		Propeller fan x 1	
	Airflow rate	cfm	6,200	
		m ³ /min	175	
		L/s	2,920	
	Control, Driving mechanism		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92	
*3	External static press.	0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	
	Motor output	kW	7.1 x 1	
	Case heater	kW	-	
	Lubricant		MEL32	
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D		in.	64-31/32 x 48-1/16 x 29-5/32	
		mm	1,650 x 1,220 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection	
	Fan motor		Thermal switch	
Refrigerant	Type x original charge		R410A x 25 lbs + 6 oz (11.5 kg)	
	Control		LEV and HIC circuit	
Net weight		lbs (kg)	532 (241)	
Heat exchanger		Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)		
Drawing	External	KD94R320		
	Wiring	KE94C647		
Standard attachment	Document	Installation Manual		
	Accessory	Details refer to External Drw		
Optional parts		joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010C-G		
Remarks		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.		

Notes:	Unit converter
1.Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h =kW x 3,412
2.Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm =m ³ /min x 35.31
3.External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs =kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Y (K)

Outdoor Model			PUHY-P120TKMU-A (-BS)		
Indoor Model			Non-Ducted	Ducted	
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	BTU/h	120,000		
		kW	35.2		
	(208-230)	Power input	kW	9.09	
		Current input	A	28.0-25.3	
	(Rated)	BTU/h	114,000		
		kW	33.4		
(208-230)	Power input	kW	8.56	8.27	
	Current input	A	26.4-23.8	25.5-23.0	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		
	Outdoor	D.B.	23~115°F (-5~46°C)		
Heating capacity (Nominal)	*2	BTU/h	135,000		
		kW	39.6		
	(208-230)	Power input	kW	10.28	
		Current input	A	31.7-28.6	
	(Rated)	BTU/h	129,000		
		kW	37.8		
(208-230)	Power input	kW	9.46	9.57	
	Current input	A	29.1-26.3	29.5-26.6	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		
Indoor unit	Total capacity	50~130% of outdoor unit capacity			
	Model/Quantity	P06~P96/1~26			
Sound pressure level (measured in anechoic room)	dB <A>	60.0			
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length ≥ 40 m)		
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		
Minimum Circuit Ampacity	A	45-42			
Maximum Overcurrent Protection	A	73-67			
FAN	Type x Quantity		Propeller fan x 2		
	Airflow rate	cfm	11,300		
		m ³ /min	320		
		L/s	5,330		
	Control, Driving mechanism		Inverter-control, Brushless DC motor		
	Motor output	kW	0.92+0.92		
*3	External static press.	0 in.WG (0 Pa)			
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		
	Motor output	kW	8.1 x 1		
	Case heater	kW	-		
	Lubricant		MEL32		
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D	in.		64-31/32 x 68-29/32 x 29-5/32		
	mm		1,650 x 1,750 x 740		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-current protection		
	Fan motor		Thermal switch		
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)		
	Control		LEV and HIC circuit		
Net weight	lbs (kg)		697 (316)		
Heat exchanger			Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)		
Drawing	External		KD94R321		
	Wiring		KE94C649		
Standard attachment	Document		Installation Manual		
	Accessory		Details refer to External Drw		
Optional parts			joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.		

Notes: 1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.) 2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) 3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	Unit converter	
	BTU/h	=kW x 3.412
	cfm	=m ³ /min x 35.31
	lbs	=kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.		
*Above specification data is subject to rounding variation.		

1. SPECIFICATIONS

Y (K)

Outdoor Model		PUHY-P144TKMU-A (-BS)		
Indoor Model		Non-Ducted	Ducted	
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	BTU/h	144,000	
		kW	42.2	
	(208-230)	Power input	11.84	
		Current input	36.5-33.0	
	(Rated)	BTU/h	137,000	
		kW	40.2	
(208-230)	Power input	11.13	10.79	
	Current input	34.3-31.0	33.2-30.0	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)	
Heating capacity (Nominal)	*2	BTU/h	160,000	
		kW	46.9	
	(208-230)	Power input	12.47	
		Current input	38.4-34.7	
	(Rated)	BTU/h	152,000	
		kW	44.5	
(208-230)	Power input	11.49	11.61	
	Current input	35.4-32.0	35.8-32.3	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)	
Indoor unit	Total capacity	50~130% of outdoor unit capacity		
	Model/Quantity	P06~P96/1~31		
Sound pressure level (measured in anechoic room)		dB <A>	61.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity		A	53-49	
Maximum Overcurrent Protection		A	88-80	
FAN	Type x Quantity		Propeller fan x 2	
	Airflow rate	cfm	11,300	
		m ³ /min	320	
		L/s	5,330	
	Control, Driving mechanism		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92+0.92	
*3	External static press.	0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	
	Motor output	kW	10.6 x 1	
	Case heater	kW	-	
	Lubricant		MEL32	
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D		in.	64-31/32 x 68-29/32 x 29-5/32	
		mm	1,650 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection	
	Fan motor		Thermal switch	
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)	
	Control		LEV and HIC circuit	
Net weight		lbs (kg)	697 (316)	
Heat exchanger		Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)		
Drawing	External		KD94R321	
	Wiring		KE94C649	
Standard attachment	Document		Installation Manual	
	Accessory		Details refer to External Drw	
Optional parts		joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		
Remarks		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.		

Notes:	Unit converter
1.Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h =kW x 3,412
2.Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm =m ³ /min x 35.31
3.External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs =kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Y (K)

Outdoor Model			PUHY-P168TSKMU-A (-BS)			
Indoor Model			Non-Ducted		Ducted	
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz			
Cooling capacity (Nominal)	*1	BTU/h	168,000			
		kW	49.2			
	(208-230)	Power input	kW	12.71		
		Current input	A	39.1-35.4		
	(Rated)	BTU/h	161,000			
		kW	47.2			
	(208-230)	Power input	kW	11.95	11.58	
		Current input	A	36.8-33.3	35.7-32.2	
Temp. range of cooling			Indoor: W.B. 59~75°F (15~24°C) Outdoor: D.B. 23~115°F (-5~46°C)			
Heating capacity (Nominal)	*2	BTU/h	188,000			
		kW	55.1			
	(208-230)	Power input	kW	14.02		
		Current input	A	43.2-39.1		
	(Rated)	BTU/h	179,000			
		kW	52.5			
	(208-230)	Power input	kW	13.16	12.80	
		Current input	A	40.5-36.7	39.4-35.7	
Temp. range of heating			Indoor: D.B. 59~81°F (15~27°C) Outdoor: W.B. -4~60°F (-20~15.5°C)			
Indoor unit			Total capacity: 50~130% of outdoor unit capacity Model/Quantity: P06~P96/1~36			
Sound pressure level (measured in anechoic room)			dB <A> 61.0			
Refrigerant piping diameter			Liquid pipe: in. (mm) 5/8 (15.88) Brazed Gas pipe: in. (mm) 1-1/8 (28.58) Brazed			

Set Model			PUHY-P72TKMU-A (-BS)		PUHY-P96TKMU-A (-BS)	
Model			PUHY-P72TKMU-A (-BS)		PUHY-P96TKMU-A (-BS)	
Minimum Circuit Ampacity			A 25-23		A 34-31	
Maximum Overcurrent Protection			A 42-38		A 57-52	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Airflow rate	cfm	6,200		6,200	
		m ³ /min	175		175	
		L/s	2,920		2,920	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92		0.92	
	*3 External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	5.5 x 1		7.1 x 1	
	Case heater	kW	-		-	
	Lubricant		MEL32		MEL32	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D			in. 64-31/32 x 36-1/4 x 29-5/32 mm 1,650 x 920 x 740		in. 64-31/32 x 48-1/16 x 29-5/32 mm 1,650 x 1,220 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection	
	Fan motor		Thermal switch		Thermal switch	
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)		R410A x 25 lbs + 6 oz (11.5 kg)	
	Control		LEV and HIC circuit			
Net weight			lbs (kg) 430 (195)		lbs (kg) 532 (241)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure	
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		3/8 (9.52) Brazed	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)			
Drawing	External		KD94R325		KD94R325	
	Wiring		KE94C645		KE94C647	
Standard attachment	Document		Installation Manual			
	Accessory		Details refer to External Drw			
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G			
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

Notes:	Unit converter
1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F.D.B./67°F.W.B. (26.7°C.D.B./19.4°C.W.B.), Outdoor: 95°F.D.B. (35°C.D.B.)	BTU/h =kW x 3,412
2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F.D.B. (21.1°C.D.B.), Outdoor: 47°F.D.B./43°F.W.B. (8.3°C.D.B./6.1°C.W.B.)	cfm =m ³ /min x 35.31
3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs =kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Y (K)

Outdoor Model			PUHY-P192TSKMU-A (-BS)		
Indoor Model			Non-Ducted		Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	(208-230)	*1	BTU/h		
			192,000		
			kW		
	(Rated)		BTU/h		
			183,000		
			kW		
(208-230)		Power input	14.04		13.39
		Current input	43.3-39.1		41.2-37.3
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		
	Outdoor	D.B.	23~115°F (-5~46°C)		
Heating capacity (Nominal)	(208-230)	*2	BTU/h		
			215,000		
			kW		
	(Rated)		BTU/h		
			205,000		
			kW		
(208-230)		Power input	16.00		15.31
		Current input	49.3-44.6		47.2-42.7
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		
Indoor unit	Total capacity		50~130% of outdoor unit capacity		
	Model/Quantity		P06~P96/1~41		
Sound pressure level (measured in anechoic room)		dB <A>	62.5		
Refrigerant piping diameter	Liquid pipe		5/8 (15.88) Brazed		
	Gas pipe		1-1/8 (28.58) Brazed		

Set Model			PUHY-P72TKMU-A (-BS)		PUHY-P120TKMU-A (-BS)	
Model			PUHY-P72TKMU-A (-BS)		PUHY-P120TKMU-A (-BS)	
Minimum Circuit Ampacity			A		25-23	
Maximum Overcurrent Protection			A		45-42	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2	
	Airflow rate	cfm	6,200		11,300	
		m ³ /min	175		320	
		L/s	2,920		5,330	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output		kW		0.92	
*3 External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output		kW		5.5 x 1	
	Case heater		kW		-	
	Lubricant		MEL32		MEL32	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D			in.		64-31/32 x 36-1/4 x 29-5/32	
			mm		1,650 x 920 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection	
	Fan motor		Thermal switch		Thermal switch	
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)		R410A x 26 lbs + 1 oz (11.8 kg)	
	Control		LEV and HIC circuit			
Net weight			lbs (kg)		430 (195)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure	
Pipe between unit and distributor	Liquid pipe		in. (mm)		3/8 (9.52) Brazed	
	Gas pipe		in. (mm)		7/8 (22.2) Brazed	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)			
Drawing	External		KD94R326			
	Wiring		KE94C645		KE94C649	
Standard attachment	Document		Installation Manual			
	Accessory		Details refer to External Drw			
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G			
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

Notes:	Unit converter
1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h = kW x 3.412
2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm = m ³ /min x 35.31
3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs = kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Y (K)

Outdoor Model			PUHY-P216TSKMU-A (-BS)	
Indoor Model			Non-Ducted	Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity (Nominal)	(208-230)	*1 BTU/h	216,000	
		kW	63.3	
		Power input kW	16.90	
	(Rated)	Current input A	52.1-47.1	
		BTU/h	206,000	
		kW	60.4	
(208-230)	Power input kW	16.09	15.21	
	Current input A	49.6-44.8	46.9-42.4	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)	
Heating capacity (Nominal)	(208-230)	*2 BTU/h	243,000	
		kW	71.2	
		Power input kW	19.26	
	(Rated)	Current input A	59.4-53.7	
		BTU/h	232,000	
		kW	68.0	
(208-230)	Power input kW	18.40	17.27	
	Current input A	56.7-51.3	53.2-48.1	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)	
Indoor unit	Total capacity		50~130% of outdoor unit capacity	
	Model/Quantity		P06-P96/2-46	
Sound pressure level (measured in anechoic room)			dB <A>	
Refrigerant			62.5	
piping diameter	Liquid pipe		5/8 (15.88) Brazed	
	Gas pipe		1-1/8 (28.58) Brazed	

Set Model			PUHY-P96TKMU-A (-BS)	PUHY-P120TKMU-A (-BS)
Model			PUHY-P96TKMU-A (-BS)	PUHY-P120TKMU-A (-BS)
Minimum Circuit Ampacity			A 34-31	45-42
Maximum Overcurrent Protection			A 57-52	73-67
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2
	Airflow rate	cfm	6,200	11,300
		m ³ /min	175	320
		L/s	2,920	5,330
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	0.92	0.92+0.92
*3 External static press.			0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION
	Starting method		Inverter	Inverter
	Motor output	kW	7.1 x 1	8.1 x 1
	Case heater	kW	-	-
	Lubricant		MEL32	MEL32
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension H x W x D			in. 64-31/32 x 48-1/16 x 29-5/32 mm 1,650 x 1,220 x 740	in. 64-31/32 x 68-29/32 x 29-5/32 mm 1,650 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-current protection	Over-current protection
	Fan motor		Thermal switch	Thermal switch
Refrigerant	Type x original charge		R410A x 25 lbs + 6 oz (11.5 kg)	R410A x 26 lbs + 1 oz (11.8 kg)
	Control		LEV and HIC circuit	
Net weight			lbs (kg) 532 (241)	697 (316)
Heat exchanger			Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	1/2 (12.7) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External		KD94R327	
	Wiring		KE94C647	KE94C649
Standard attachment	Document		Installation Manual	
	Accessory		Details refer to External Drw	
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G	
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.	

Notes:	Unit converter
1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h = kW x 3.412
2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm = m ³ /min x 35.31
3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs = kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Y (K)

Outdoor Model		PUHY-P240TSKMU-A (-BS)		
Indoor Model		Non-Ducted		
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	BTU/h	240,000	
		kW	70.3	
	(208-230)	Power input	kW	19.12
		Current input	A	58.9-53.3
	(Rated)	BTU/h	228,000	
		kW	66.8	
	(208-230)	Power input	kW	18.28
		Current input	A	56.3-50.9
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)	
Heating capacity (Nominal)	*2	BTU/h	270,000	
		kW	79.1	
	(208-230)	Power input	kW	21.86
		Current input	A	67.4-60.9
	(Rated)	BTU/h	258,000	
		kW	75.6	
	(208-230)	Power input	kW	20.70
		Current input	A	63.8-57.7
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)	
Indoor unit	Total capacity	50~130% of outdoor unit capacity		
	Model/Quantity	P06~P96/2~50		
Sound pressure level (measured in anechoic room)		dB <A>		
		63.0		
Refrigerant piping diameter	Liquid pipe	in. (mm)	5/8 (15.88) Brazed	
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	

Set Model		PUHY-P120TKMU-A (-BS)		PUHY-P120TKMU-A (-BS)		
Minimum Circuit Ampacity		A	45-42	45-42		
Maximum Overcurrent Protection		A	73-67	73-67		
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	11,300	11,300		
		m ³ /min	320	320		
		L/s	5,330	5,330		
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92+0.92	0.92+0.92		
*3	External static press.	0 in.WG (0 Pa)		0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	8.1 x 1	8.1 x 1		
	Case heater	kW	-	-		
	Lubricant		MEL32		MEL32	
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D		in.	64-31/32 x 68-29/32 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32		
		mm	1,650 x 1,750 x 740	1,650 x 1,750 x 740		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection	
	Fan motor		Thermal switch		Thermal switch	
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)	
	Control		LEV and HIC circuit			
Net weight		lbs (kg)	697 (316)	697 (316)		
Heat exchanger		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure		
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed		
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed		
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)				
Drawing	External	KD94R328				
	Wiring	KE94C649		KE94C649		
Standard attachment	Document	Installation Manual				
	Accessory	Details refer to External Drw				
Optional parts		Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G				
Remarks		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				

Notes:	Unit converter
1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h = kW x 3.412
2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm = m ³ /min x 35.31
3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs = kg / 0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	* Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Outdoor Model			PUHY-P264TSKMU-A (-BS)		
Indoor Model			Non-Ducted		Ducted
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz		
Cooling capacity (Nominal)	(208-230)	*1 BTU/h	264,000		
		kW	77.4		
		Power input kW	20.35		
	(Rated)	Current input A	62.7-56.7		
		BTU/h	252,000		
		kW	73.9		
(208-230)	Power input kW	19.39		18.29	
	Current input A	59.8-54.0		56.4-51.0	
	Temp. range of cooling	Indoor	W.B. 59~75°F (15~24°C)		
	Outdoor	D.B. 23~115°F (-5~46°C)			
Heating capacity (Nominal)	(208-230)	*2 BTU/h	295,000		
		kW	86.5		
		Power input kW	23.11		
	(Rated)	Current input A	71.2-64.4		
		BTU/h	281,000		
		kW	82.4		
(208-230)	Power input kW	22.07		20.72	
	Current input A	68.0-61.5		63.9-57.7	
	Temp. range of heating	Indoor	D.B. 59~81°F (15~27°C)		
	Outdoor	W.B. -4~60°F (-20~15.5°C)			
Indoor unit	Total capacity		50~130% of outdoor unit capacity		
	Model/Quantity		P06-P96/2-50		
Sound pressure level (measured in anechoic room)			dB <A> 63.5		
Refrigerant	Liquid pipe		in. (mm) 3/4 (19.05) Brazed		
piping diameter	Gas pipe		in. (mm) 1-3/8 (34.93) Brazed		

Set Model			PUHY-P72TKMU-A (-BS)			PUHY-P72TKMU-A (-BS)			PUHY-P120TKMU-A (-BS)		
Model			25-23			25-23			45-42		
Minimum Circuit Ampacity			A 42-38			A 42-38			A 73-67		
Maximum Overcurrent Protection			A 0 in.WG (0 Pa)			A 0 in.WG (0 Pa)			A 0 in.WG (0 Pa)		
FAN	Type x Quantity		Propeller fan x 1			Propeller fan x 1			Propeller fan x 2		
	Airflow rate	cfm	6,200			6,200			11,300		
		m ³ /min	175			175			320		
		L/s	2,920			2,920			5,330		
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.92			0.92			0.92+0.92		
*3 External static press.			0 in.WG (0 Pa)			0 in.WG (0 Pa)			0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1			Inverter scroll hermetic compressor x 1			Inverter scroll hermetic compressor x 1		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION			AC&R Works, MITSUBISHI ELECTRIC CORPORATION			AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter			Inverter			Inverter		
	Motor output	kW	5.5 x 1			5.5 x 1			8.1 x 1		
	Case heater	kW	-			-			-		
	Lubricant		MEL32			MEL32			MEL32		
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D			in. 64-31/32 x 36-1/4 x 29-5/32			in. 64-31/32 x 36-1/4 x 29-5/32			in. 64-31/32 x 68-29/32 x 29-5/32		
			mm 1,650 x 920 x 740			mm 1,650 x 920 x 740			mm 1,650 x 1,750 x 740		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-current protection			Over-current protection			Over-current protection		
	Fan motor		Thermal switch			Thermal switch			Thermal switch		
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)			R410A x 19 lbs + 13 oz (9.0 kg)			R410A x 26 lbs + 1 oz (11.8 kg)		
	Control		LEV and HIC circuit			LEV and HIC circuit			LEV and HIC circuit		
Net weight			lbs (kg) 430 (195)			lbs (kg) 430 (195)			lbs (kg) 697 (316)		
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure			Copper pipe, tube-in-tube structure			Copper pipe, tube-in-tube structure		
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed			3/8 (9.52) Brazed			1/2 (12.7) Brazed		
	Gas pipe	in. (mm)	7/8 (22.2) Brazed			7/8 (22.2) Brazed			1-1/8 (28.58) Brazed		
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)			Auto-defrost mode (Reversed refrigerant cycle)			Auto-defrost mode (Reversed refrigerant cycle)		
Drawing	External		KD94R329			KD94R329			KD94R329		
	Wiring		KE94C645			KE94C645			KE94C649		
Standard attachment	Document		Installation Manual			Installation Manual			Installation Manual		
	Accessory		Details refer to External Drw			Details refer to External Drw			Details refer to External Drw		
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.		

Notes:	Unit converter
1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h = kW x 3.412
2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm = m ³ /min x 35.31
3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs = kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Y (K)

Outdoor Model			PUHY-P288TSKMU-A (-BS)			
Indoor Model			Non-Ducted		Ducted	
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz			
Cooling capacity (Nominal)	*1	BTU/h	288,000			
		kW	84.4			
	(208-230)	Power input	22.39			
		Current input	69.0-62.4			
	(Rated)	BTU/h	275,000			
		kW	80.6			
(208-230)	Power input	21.33			20.13	
	Current input	65.7-59.4			62.0-56.1	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)			
	Outdoor	D.B.	23~115°F (-5~46°C)			
Heating capacity (Nominal)	*2	BTU/h	323,000			
		kW	94.7			
	(208-230)	Power input	25.36			
		Current input	78.2-70.7			
	(Rated)	BTU/h	308,000			
		kW	90.3			
(208-230)	Power input	24.27			22.69	
	Current input	74.8-67.6			69.9-63.2	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)			
	Outdoor	W.B.	-4~60°F (-20~15.5°C)			
Indoor unit	Total capacity	50~130% of outdoor unit capacity				
	Model/Quantity	P06~P96/2~50				
Sound pressure level (measured in anechoic room)		dB <A>	64.0			
Refrigerant piping diameter	Liquid pipe	3/4 (19.05) Brazed				
	Gas pipe	1-3/8 (34.93) Brazed				
Set Model						
Model			PUHY-P72TKMU-A (-BS)	PUHY-P96TKMU-A (-BS)	PUHY-P120TKMU-A (-BS)	
Minimum Circuit Ampacity			A 25-23	A 34-31	A 45-42	
Maximum Overcurrent Protection			A 42-38	A 57-52	A 73-67	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 1	Propeller fan x 2	
	Airflow rate	cfm	6,200	6,200	11,300	
		m ³ /min	175	175	320	
		L/s	2,920	2,920	5,330	
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	
	Motor output	kW	0.92	0.92	0.92+0.92	
*3 External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	Inverter	Inverter	
	Motor output	kW	5.5 x 1	7.1 x 1	8.1 x 1	
	Case heater	kW	-	-	-	
	Lubricant		MEL32	MEL32	MEL32	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D			64-31/32 x 36-1/4 x 29-5/32 1,650 x 920 x 740	64-31/32 x 48-1/16 x 29-5/32 1,650 x 1,220 x 740	64-31/32 x 68-29/32 x 29-5/32 1,650 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection	Over-current protection	Over-current protection	
	Fan motor		Thermal switch	Thermal switch	Thermal switch	
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)	R410A x 25 lbs + 6 oz (11.5 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	
	Control		LEV and HIC circuit			
Net weight			lbs (kg) 430 (195)	532 (241)	697 (316)	
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	Copper pipe, tube-in-tube structure	Copper pipe, tube-in-tube structure	
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	1/2 (12.7) Brazed	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)			
Drawing	External		KD94R330			
	Wiring		KE94C645	KE94C647	KE94C649	
Standard attachment	Document		Installation Manual			
	Accessory		Details refer to External Drw			
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G			
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

Notes: 1.Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.) 2.Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) 3.External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	Unit converter	
	BTU/h	=kW x 3.412
	cfm	=m ³ /min x 35.31
	lbs	=kg /0.4536
*Above specification data is subject to rounding variation.		

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

1. SPECIFICATIONS

U11 2nd

Y (K)

Outdoor Model			PUHY-P312TSKMU-A (-BS)				
Indoor Model			Non-Ducted		Ducted		
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz				
Cooling capacity (Nominal)	*1	BTU/h	312,000				
		kW	91.4				
	(208-230)	Power input	kW	24.87			
		Current input	A	76.7-69.3			
	(Rated)	BTU/h	297,000				
		kW	87.0				
	(208-230)	Power input	kW	23.70	22.36		
		Current input	A	73.0-66.1	68.9-62.3		
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)				
	Outdoor	D.B.	23~115°F (-5~46°C)				
Heating capacity (Nominal)	*2	BTU/h	350,000				
		kW	102.6				
	(208-230)	Power input	kW	28.71			
		Current input	A	88.5-80.0			
	(Rated)	BTU/h	334,000				
		kW	97.9				
	(208-230)	Power input	kW	27.53	25.64		
		Current input	A	84.9-76.7	79.0-71.5		
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)				
	Outdoor	W.B.	-4~60°F (-20~15.5°C)				
Indoor unit	Total capacity	50~130% of outdoor unit capacity					
	Model/Quantity	P06~P96/2~50					
Sound pressure level (measured in anechoic room)			dB <A>				
			64.5				
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed				
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed				
Set Model							
Model			PUHY-P72TKMU-A (-BS)	PUHY-P120TKMU-A (-BS)	PUHY-P120TKMU-A (-BS)		
Minimum Circuit Ampacity			A	25-23	45-42	45-42	
Maximum Overcurrent Protection			A	42-38	73-67	73-67	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2		
	Airflow rate	cfm	6,200		11,300		
		m ³ /min	175		320		
		L/s	2,920		5,330		
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		
	Motor output		kW		0.92+0.92		
*3 External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)			
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		Inverter		
	Motor output		kW		5.5 x 1		
	Case heater		kW		-		
	Lubricant		MEL32		MEL32		
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D			in.		64-31/32 x 36-1/4 x 29-5/32		
			mm		1,650 x 920 x 740		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		
	Fan motor		Thermal switch		Thermal switch		
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)		R410A x 26 lbs + 1 oz (11.8 kg)		
	Control		LEV and HIC circuit				
Net weight			lbs (kg)		430 (195)		
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure		
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		1/2 (12.7) Brazed		
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		1-1/8 (28.58) Brazed		
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)				
Drawing	External		KD94R331				
	Wiring		KE94C645		KE94C649		
Standard attachment	Document		Installation Manual				
	Accessory		Details refer to External Drw				
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 Joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G				
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				

Notes:		Unit converter
1.Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)		BTU/h = kW x 3.412
2.Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)		cfm = m ³ /min x 35.31
3.External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).		lbs = kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.		*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Y (K)

Outdoor Model			PUHY-P336TSKMU-A (-BS)			
Indoor Model			Non-Ducted		Ducted	
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz			
Cooling capacity (Nominal)	*1	BTU/h	336,000			
		kW	98.5			
	(208-230)	Power input	kW	27.21		
		Current input	A	83.9-75.8		
	(Rated)	BTU/h	320,000			
		kW	93.8			
(208-230)	Power input	kW	25.82	24.57		
	Current input	A	79.6-72.0	75.7-68.5		
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)			
	Outdoor	D.B.	23~115°F (-5~46°C)			
Heating capacity (Nominal)	*2	BTU/h	378,000			
		kW	110.8			
	(208-230)	Power input	kW	31.73		
		Current input	A	97.8-88.4		
	(Rated)	BTU/h	361,000			
		kW	105.8			
(208-230)	Power input	kW	30.61	28.14		
	Current input	A	94.4-85.3	86.7-78.4		
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)			
	Outdoor	W.B.	-4~60°F (-20~15.5°C)			
Indoor unit	Total capacity	50~130% of outdoor unit capacity				
	Model/Quantity	P06~P96/2~50				
Sound pressure level (measured in anechoic room)		dB <A>	64.5			
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed			
	Gas pipe	in. (mm)	1-5/8 (41.28) Brazed			
Set Model						
Model			PUHY-P96TKMU-A (-BS)	PUHY-P120TKMU-A (-BS)	PUHY-P120TKMU-A (-BS)	
Minimum Circuit Ampacity		A	34-31	45-42	45-42	
Maximum Overcurrent Protection		A	57-52	73-67	73-67	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	
	Airflow rate	cfm	6,200	11,300	11,300	
		m ³ /min	175	320	320	
		L/s	2,920	5,330	5,330	
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	
	Motor output	kW	0.92	0.92+0.92	0.92+0.92	
*3 External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	Inverter	Inverter	
	Motor output	kW	7.1 x 1	8.1 x 1	8.1 x 1	
	Case heater	kW	-	-	-	
	Lubricant		MEL32	MEL32	MEL32	
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D		in.	64-31/32 x 48-1/16 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32	
		mm	1,650 x 1,220 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection	Over-current protection	Over-current protection	
	Fan motor		Thermal switch	Thermal switch	Thermal switch	
Refrigerant	Type x original charge		R410A x 25 lbs + 6 oz (11.5 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	
	Control		LEV and HIC circuit			
Net weight	lbs (kg)	532 (241)	697 (316)	697 (316)		
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure	Copper pipe, tube-in-tube structure	
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)				
Drawing	External	KD94R332				
	Wiring	KE94C647	KE94C649	KE94C649		
Standard attachment	Document	Installation Manual				
	Accessory	Details refer to External Drw				
Optional parts		Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G				
Remarks		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				

Notes:	Unit converter
1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h = kW x 3.412
2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm = m ³ /min x 35.31
3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs = kg / 0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	* Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Outdoor Model			PUHY-P360TKMU-A (-BS)			
Indoor Model			Non-Ducted		Ducted	
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz			
Cooling capacity (Nominal)	(208-230)	*1 BTU/h	360,000			
		kW	105.5			
		Power input kW	29.65			
	(Rated)	Current input A	91.4-82.6			
		BTU/h	342,000			
		kW	100.2			
(208-230)	Power input kW	28.14		26.77		
	Current input A	86.7-78.4		82.5-74.6		
	Temp. range of cooling	Indoor	W.B.			59~75°F (15~24°C)
	Outdoor	D.B.			23~115°F (-5~46°C)	
Heating capacity (Nominal)	(208-230)	*2 BTU/h	405,000			
		kW	118.7			
		Power input kW	35.39			
	(Rated)	Current input A	109.1-98.7			
		BTU/h	387,000			
		kW	113.4			
(208-230)	Power input kW	34.30		31.23		
	Current input A	105.7-95.6		96.3-87.1		
	Temp. range of heating	Indoor	D.B.			59~81°F (15~27°C)
	Outdoor	W.B.			-4~60°F (-20~15.5°C)	
Indoor unit	Total capacity		50~130% of outdoor unit capacity			
	Model/Quantity		P06-P96/2-50			
Sound pressure level (measured in anechoic room)			dB <A>			
			65.0			
Refrigerant	Liquid pipe		in. (mm)			
			3/4 (19.05) Brazed			
piping diameter	Gas pipe		in. (mm)			
			1-5/8 (41.28) Brazed			
Set Model						

Model			PUHY-P120TKMU-A (-BS)		PUHY-P120TKMU-A (-BS)		PUHY-P120TKMU-A (-BS)	
Minimum Circuit Ampacity			A		45-42		45-42	
Maximum Overcurrent Protection			A		73-67		73-67	
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	11,300		11,300		11,300	
		m ³ /min	320		320		320	
		L/s	5,330		5,330		5,330	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output		kW		0.92+0.92		0.92+0.92	
*3 External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter		Inverter	
	Motor output		kW		8.1 x 1		8.1 x 1	
	Case heater		kW		-		-	
	Lubricant		MEL32		MEL32		MEL32	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D			in.		64-31/32 x 68-29/32 x 29-5/32		64-31/32 x 68-29/32 x 29-5/32	
			mm		1,650 x 1,750 x 740		1,650 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection	
	Fan motor		Thermal switch		Thermal switch		Thermal switch	
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)	
	Control		LEV and HIC circuit					
Net weight			lbs (kg)		697 (316)		697 (316)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure	
Pipe between unit and distributor	Liquid pipe		in. (mm)		1/2 (12.7) Brazed		1/2 (12.7) Brazed	
	Gas pipe		in. (mm)		1-1/8 (28.58) Brazed		1-1/8 (28.58) Brazed	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)					
Drawing	External		KD94R333					
	Wiring		KE94C649		KE94C649		KE94C649	
Standard attachment	Document		Installation Manual					
	Accessory		Details refer to External Drw					
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G					
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.					

Notes:	Unit converter
1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h = kW x 3.412
2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm = m ³ /min x 35.31
3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs = kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Outdoor Model		PUHY-P72YKMU-A (-BS)		
Indoor Model		Non-Ducted	Ducted	
Power source		3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	BTU/h	72,000	
		kW	21.1	
	(460)	Power input	kW	
		Current input	A	
	(Rated)		BTU/h	69,000
			kW	20.2
(460)	Power input	4.58	4.79	
	Current input	6.3	6.6	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)	
Heating capacity (Nominal)	*2	BTU/h	80,000	
		kW	23.4	
	(460)	Power input	kW	
		Current input	A	
	(Rated)		BTU/h	76,000
			kW	22.3
(460)	Power input	5.04	5.36	
	Current input	7.0	7.4	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)	
Indoor unit	Total capacity	50~130% of outdoor unit capacity		
	Model/Quantity	P06~P72/1~15		
Sound pressure level (measured in anechoic room)		dB <A>	58.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	
Minimum Circuit Ampacity		A	12	
Maximum Overcurrent Protection		A	19	
FAN	Type x Quantity		Propeller fan x 1	
	Airflow rate	cfm	6,200	
		m ³ /min	175	
		L/s	2,920	
	Control, Driving mechanism		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92	
*3	External static press.	0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	
	Motor output	kW	5.5 x 1	
	Case heater	kW	-	
	Lubricant		MEL32	
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D		in.	64-31/32 x 36-1/4 x 29-5/32	
		mm	1,650 x 920 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection	
	Fan motor		Thermal switch	
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)	
	Control		LEV and HIC circuit	
Net weight		lbs (kg)	463 (210)	
Heat exchanger		Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)		
Drawing	External	KD94R322		
	Wiring	KE94C641		
Standard attachment	Document	Installation Manual		
	Accessory	Details refer to External Drw		
Optional parts		joint: CMY-Y102SS-G2,CMY-Y102LS-G2 Header: CMY-Y104/108/1010C-G		
Remarks		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.		

Notes:	1.Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	Unit converter BTU/h =kW x 3.412 cfm =m ³ /min x 35.31 lbs =kg /0.4536
	2.Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	
	3.External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	
	* Due to continuing improvement, above specifications may be subject to change without notice.	
		*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Y (K)

Outdoor Model			PUHY-P96YKMU-A (-BS)	
Indoor Model			Non-Ducted	Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz	
Cooling capacity (Nominal)	*1	BTU/h	96,000	
		kW	28.1	
	(460)	Power input	7.00	
		Current input	9.7	
	(Rated)	BTU/h	92,000	
		kW	27.0	
(460)	Power input	6.35	6.62	
	Current input	8.8	9.2	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)	
Heating capacity (Nominal)	*2	BTU/h	108,000	
		kW	31.7	
	(460)	Power input	7.47	
		Current input	10.4	
	(Rated)	BTU/h	103,000	
		kW	30.2	
(460)	Power input	6.79	7.04	
	Current input	9.4	9.8	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)	
Indoor unit	Total capacity	50~130% of outdoor unit capacity		
	Model/Quantity	P06~P96/1~20		
Sound pressure level (measured in anechoic room)		dB <A>	58.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length ≥ 90 m)	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	
Minimum Circuit Ampacity		A	15	
Maximum Overcurrent Protection		A	26	
FAN	Type x Quantity		Propeller fan x 1	
	Airflow rate	cfm	6,200	
		m ³ /min	175	
		L/s	2,920	
	Control, Driving mechanism		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92	
*3	External static press.		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	
	Motor output	kW	7.1 x 1	
	Case heater	kW	-	
	Lubricant		MEL32	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D		in.	64-31/32 x 48-1/16 x 29-5/32	
		mm	1,650 x 1,220 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection	
	Fan motor		Thermal switch	
Refrigerant	Type x original charge		R410A x 25 lbs + 6 oz (11.5 kg)	
	Control		LEV and HIC circuit	
Net weight		lbs (kg)	558 (253)	
Heat exchanger			Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External		KD94R323	
	Wiring		KE94C641	
Standard attachment	Document		Installation Manual	
	Accessory		Details refer to External Drw	
Optional parts			joint: CMY-Y102SS/LS-G2 Header: CMY-Y104/108/1010C-G	
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.	

Notes: 1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.) 2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) 3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	Unit converter	
	BTU/h	=kW x 3.412
	cfm	=m ³ /min x 35.31
	lbs	=kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.		
*Above specification data is subject to rounding variation.		

1. SPECIFICATIONS

Y (K)

Outdoor Model		PUHY-P120YKMU-A (-BS)		
Indoor Model		Non-Ducted	Ducted	
Power source		3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	BTU/h	120,000	
		kW	35.2	
	(460)	Power input	9.09	
		Current input	12.6	
	(Rated)	BTU/h	114,000	
		kW	33.4	
(460)	Power input	8.56	8.27	
	Current input	11.9	11.5	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)	
Heating capacity (Nominal)	*2	BTU/h	135,000	
		kW	39.6	
	(460)	Power input	10.28	
		Current input	14.3	
	(Rated)	BTU/h	129,000	
		kW	37.8	
(460)	Power input	9.46	9.57	
	Current input	13.1	13.3	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)	
Indoor unit	Total capacity	50~130% of outdoor unit capacity		
	Model/Quantity	P06~P96/1~26		
Sound pressure level (measured in anechoic room)		dB <A> 60.0		
Refrigerant piping diameter	Liquid pipe	3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 40 m)		
	Gas pipe	1-1/8 (28.58) Brazed		
Minimum Circuit Ampacity	A		20	
Maximum Overcurrent Protection	A		33	
FAN	Type x Quantity		Propeller fan x 2	
	Airflow rate	cfm	11,300	
		m ³ /min	320	
		L/s	5,330	
	Control, Driving mechanism		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92+0.92	
*3	External static press.	0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	
	Motor output	kW	8.1 x 1	
	Case heater	kW	-	
	Lubricant		MEL32	
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D		in.	64-31/32 x 68-29/32 x 29-5/32	
		mm	1,650 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection	
	Fan motor		Thermal switch	
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)	
	Control		LEV and HIC circuit	
Net weight	lbs (kg)		726 (329)	
Heat exchanger		Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)		
Drawing	External	KD94R324		
	Wiring	KE94C643		
Standard attachment	Document	Installation Manual		
	Accessory	Details refer to External Drw		
Optional parts		joint: CMY-Y102SS/LS-G2,CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		
Remarks		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.		

Notes:	Unit converter
1.Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h =kW x 3,412
2.Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm =m ³ /min x 35.31
3.External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs =kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Y (K)

Outdoor Model			PUHY-P144YKMU-A (-BS)		
Indoor Model			Non-Ducted	Ducted	
Power source			3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	BTU/h	144,000		
		kW	42.2		
	(460)	Power input	11.84		
		Current input	16.5		
	(Rated)	BTU/h	137,000		
		kW	40.2		
	(460)	Power input	11.13	10.79	
		Current input	15.5	15.0	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		
	Outdoor	D.B.	23~115°F (-5~46°C)		
Heating capacity (Nominal)	*2	BTU/h	160,000		
		kW	46.9		
	(460)	Power input	12.47		
		Current input	17.3		
	(Rated)	BTU/h	152,000		
		kW	44.5		
	(460)	Power input	11.49	11.61	
		Current input	16.0	16.1	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		
Indoor unit	Total capacity	50~130% of outdoor unit capacity			
	Model/Quantity	P06~P96/1~31			
Sound pressure level (measured in anechoic room)	dB <A>	61.0			
Refrigerant piping diameter	Liquid pipe	in. (mm)	1/2 (12.7) Brazed		
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		
Minimum Circuit Ampacity	A	24			
Maximum Overcurrent Protection	A	40			
FAN	Type x Quantity		Propeller fan x 2		
	Airflow rate	cfm	11,300		
		m ³ /min	320		
		L/s	5,330		
	Control, Driving mechanism		Inverter-control, Brushless DC motor		
	Motor output	kW	0.92+0.92		
*3	External static press.	0 in.WG (0 Pa)			
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		
	Motor output	kW	10.6 x 1		
	Case heater	kW	-		
	Lubricant		MEL32		
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D	in.		64-31/32 x 68-29/32 x 29-5/32		
	mm		1,650 x 1,750 x 740		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-current protection		
	Fan motor		Thermal switch		
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)		
	Control		LEV and HIC circuit		
Net weight	lbs (kg)		726 (329)		
Heat exchanger			Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)		
Drawing	External		KD94R324		
	Wiring		KE94C643		
Standard attachment	Document		Installation Manual		
	Accessory		Details refer to External Drw		
Optional parts			joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G		
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.		

Notes: 1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.) 2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) 3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	Unit converter	
	BTU/h	=kW x 3.412
	cfm	=m ³ /min x 35.31
	lbs	=kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.		
*Above specification data is subject to rounding variation.		

1. SPECIFICATIONS

Y (K)

Outdoor Model			PUHY-P144YSKMU-A (-BS)		
Indoor Model			Non-Ducted	Ducted	
Power source			3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	BTU/h	144,000		
		kW	42.2		
	(460)	Power input	10.57		
		Current input	14.7		
	(Rated)	BTU/h	137,000		
		kW	40.2		
	(460)	Power input	9.89	9.68	
		Current input	13.7	13.4	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		
	Outdoor	D.B.	23~115°F (-5~46°C)		
Heating capacity (Nominal)	*2	BTU/h	160,000		
		kW	46.9		
	(460)	Power input	11.68		
		Current input	16.2		
	(Rated)	BTU/h	152,000		
		kW	44.5		
	(460)	Power input	10.79	10.84	
		Current input	15.0	15.1	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		
Indoor unit	Total capacity	50~130% of outdoor unit capacity			
	Model/Quantity	P06~P96/1~31			
Sound pressure level (measured in anechoic room)		dB <A>	61.0		
Refrigerant piping diameter	Liquid pipe		1/2 (12.7) Brazed		
	Gas pipe		1-1/8 (28.58) Brazed		

Set Model			PUHY-P72YKMU-A (-BS)	
Model			PUHY-P72YKMU-A (-BS)	
Minimum Circuit Ampacity			12	
Maximum Overcurrent Protection			19	
FAN	Type x Quantity		Propeller fan x 1	
	Airflow rate	cfm	6,200	
		m ³ /min	175	
		L/s	2,920	
	Control, Driving mechanism		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92	
*3 External static press.		0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	
	Motor output	kW	5.5 x 1	
	Case heater	kW	-	
	Lubricant		MEL32	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D			64-31/32 x 36-1/4 x 29-5/32 1,650 x 920 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection	
	Fan motor		Thermal switch	
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)	
	Control		LEV and HIC circuit	
Net weight			463 (210)	
Heat exchanger			Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Drawing	External		KD94R334	
	Wiring		KE94C641	
Standard attachment	Document		Installation Manual	
	Accessory		Details refer to External Drw	
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.	

Notes:	Unit converter
1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h = kW x 3.412
2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm = m ³ /min x 35.31
3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs = kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Y (K)

Outdoor Model			PUHY-P168YSKMU-A (-BS)			
Indoor Model			Non-Ducted		Ducted	
Power source			3-phase 3-wire 460 V ±10% 60 Hz			
Cooling capacity (Nominal)	*1	BTU/h	168,000			
		kW	49.2			
	(460)	Power input	kW	12.71		
		Current input	A	17.7		
	(Rated)	BTU/h	161,000			
		kW	47.2			
	(460)	Power input	kW	11.95	11.58	
		Current input	A	16.6	16.1	
Temp. range of cooling		Indoor	W.B. 59~75°F (15~24°C)			
		Outdoor	D.B. 23~115°F (-5~46°C)			
Heating capacity (Nominal)	*2	BTU/h	188,000			
		kW	55.1			
	(460)	Power input	kW	14.02		
		Current input	A	19.5		
	(Rated)	BTU/h	179,000			
		kW	52.5			
	(460)	Power input	kW	13.16	12.80	
		Current input	A	18.3	17.8	
Temp. range of heating		Indoor	D.B. 59~81°F (15~27°C)			
		Outdoor	W.B. -4~60°F (-20~15.5°C)			
Indoor unit		Total capacity	50~130% of outdoor unit capacity			
		Model/Quantity	P06~P96/1~36			
Sound pressure level (measured in anechoic room)		dB <A>	61.0			
Refrigerant piping diameter		Liquid pipe	in. (mm) 5/8 (15.88) Brazed			
		Gas pipe	in. (mm) 1-1/8 (28.58) Brazed			

Set Model			PUHY-P72YKMU-A (-BS)		PUHY-P96YKMU-A (-BS)	
Model			PUHY-P72YKMU-A (-BS)		PUHY-P96YKMU-A (-BS)	
Minimum Circuit Ampacity		A	12		15	
Maximum Overcurrent Protection		A	19		26	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1	
	Airflow rate	cfm	6,200		6,200	
		m ³ /min	175		175	
		L/s	2,920		2,920	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92		0.92	
	*3 External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	5.5 x 1		7.1 x 1	
	Case heater	kW	-		-	
	Lubricant		MEL32		MEL32	
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D		in.	64-31/32 x 36-1/4 x 29-5/32		64-31/32 x 48-1/16 x 29-5/32	
		mm	1,650 x 920 x 740		1,650 x 1,220 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection	
	Fan motor		Thermal switch		Over-current protection	
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)		R410A x 25 lbs + 6 oz (11.5 kg)	
	Control		LEV and HIC circuit			
Net weight		lbs (kg)	463 (210)		558 (253)	
Heat exchanger		Salt-resistant cross fin & copper tube				
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure				
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		3/8 (9.52) Brazed	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed	
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)				
Drawing	External		KD94R335			
	Wiring		KE94C641		KE94C641	
Standard attachment	Document		Installation Manual			
	Accessory		Details refer to External Drw			
Optional parts		Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G				
Remarks		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				

Notes:	Unit converter
1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h = kW x 3.412
2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm = m ³ /min x 35.31
3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs = kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Y (K)

Outdoor Model			PUHY-P192YSKMU-A (-BS)		
Indoor Model			Non-Ducted		Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	BTU/h	192,000		
		kW	56.3		
		(460) Power input kW	14.81		
	(Rated)	(460) Current input A	20.6		
		BTU/h	183,000		
		kW	53.6		
(460)	Power input kW	14.04	13.39		
	Current input A	19.5	18.6		
	Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)		
Heating capacity (Nominal)	*2	BTU/h	215,000		
		kW	63.0		
		(460) Power input kW	16.91		
	(Rated)	(460) Current input A	23.5		
		BTU/h	205,000		
		kW	60.1		
(460)	Power input kW	16.00	15.31		
	Current input A	22.3	21.3		
	Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		
Indoor unit	Total capacity		50~130% of outdoor unit capacity		
	Model/Quantity		P06~P96/1~41		
Sound pressure level (measured in anechoic room)		dB <A>	62.5		
Refrigerant piping diameter	Liquid pipe		5/8 (15.88) Brazed		
	Gas pipe		1-1/8 (28.58) Brazed		

Set Model			PUHY-P72YKMU-A (-BS)		PUHY-P120YKMU-A (-BS)		
Model			12		20		
Minimum Circuit Ampacity			A		A		
Maximum Overcurrent Protection			19		33		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2		
	Airflow rate	cfm	6,200		11,300		
		m ³ /min	175		320		
		L/s	2,920		5,330		
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		
	Motor output	kW	0.92		0.92+0.92		
*3 External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)			
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		Inverter		
	Motor output	kW	5.5 x 1		8.1 x 1		
	Case heater	kW	-		-		
	Lubricant		MEL32		MEL32		
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D			in.	64-31/32 x 36-1/4 x 29-5/32		64-31/32 x 68-29/32 x 29-5/32	
			mm	1,650 x 920 x 740		1,650 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		
	Fan motor		Thermal switch		Thermal switch		
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)		R410A x 26 lbs + 1 oz (11.8 kg)		
	Control		LEV and HIC circuit				
Net weight			lbs (kg)	463 (210)		726 (329)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure		
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		1/2 (12.7) Brazed		
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		1-1/8 (28.58) Brazed		
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)				
Drawing	External		KD94R336				
	Wiring		KE94C641		KE94C643		
Standard attachment	Document		Installation Manual				
	Accessory		Details refer to External Drw				
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G				
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				

Notes:	Unit converter
1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h = kW x 3.412
2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm = m ³ /min x 35.31
3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs = kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Y (K)

Outdoor Model			PUHY-P216YSKMU-A (-BS)		
Indoor Model			Non-Ducted		Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	(460)	*1 BTU/h	216,000		
		kW	63.3		
		Power input kW	16.90		
	(Rated)	Current input A	23.5		
		BTU/h	206,000		
		kW	60.4		
(460)	Power input kW	16.09	15.21		
	Current input A	22.4	21.2		
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)		
	Outdoor	D.B.	23~115°F (-5~46°C)		
Heating capacity (Nominal)	(460)	*2 BTU/h	243,000		
		kW	71.2		
		Power input kW	19.26		
	(Rated)	Current input A	26.8		
		BTU/h	232,000		
		kW	68.0		
(460)	Power input kW	18.40	17.27		
	Current input A	25.6	24.0		
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)		
	Outdoor	W.B.	-4~60°F (-20~15.5°C)		
Indoor unit	Total capacity		50~130% of outdoor unit capacity		
	Model/Quantity		P06-P96/2-46		
Sound pressure level (measured in anechoic room)		dB <A>	62.5		
Refrigerant piping diameter	Liquid pipe		5/8 (15.88) Brazed		
	Gas pipe		1-1/8 (28.58) Brazed		

Set Model			PUHY-P96YKMU-A (-BS)		PUHY-P120YKMU-A (-BS)		
Model			15		20		
Minimum Circuit Ampacity			A		A		
Maximum Overcurrent Protection			26		33		
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2		
	Airflow rate	cfm	6,200		11,300		
		m ³ /min	175		320		
		L/s	2,920		5,330		
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		
	Motor output		kW	0.92		0.92+0.92	
*3 External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)			
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		Inverter		
	Motor output		kW	7.1 x 1		8.1 x 1	
	Case heater		kW	-		-	
	Lubricant		MEL32		MEL32		
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D			in. 64-31/32 x 48-1/16 x 29-5/32		in. 64-31/32 x 68-29/32 x 29-5/32		
			mm 1,650 x 1,220 x 740		mm 1,650 x 1,750 x 740		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		
	Fan motor		Thermal switch		Thermal switch		
Refrigerant	Type x original charge		R410A x 25 lbs + 6 oz (11.5 kg)		R410A x 26 lbs + 1 oz (11.8 kg)		
	Control		LEV and HIC circuit				
Net weight			lbs (kg) 558 (253)		726 (329)		
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure		
Pipe between unit and distributor	Liquid pipe		in. (mm) 3/8 (9.52) Brazed		1/2 (12.7) Brazed		
	Gas pipe		in. (mm) 7/8 (22.2) Brazed		1-1/8 (28.58) Brazed		
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)				
Drawing	External		KD94R337				
	Wiring		KE94C641		KE94C643		
Standard attachment	Document		Installation Manual				
	Accessory		Details refer to External Drw				
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G				
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				

Notes:	Unit converter
1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h = kW x 3.412
2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm = m ³ /min x 35.31
3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs = kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Outdoor Model		PUHY-P240YSKMU-A (-BS)		
Indoor Model		Non-Ducted		
Power source		3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	*1	BTU/h	240,000	
		kW	70.3	
	(460)	Power input	kW	19.12
		Current input	A	26.6
	(Rated)	BTU/h	228,000	
		kW	66.8	
	(460)	Power input	kW	18.28
		Current input	A	25.4
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)	
	Outdoor	D.B.	23~115°F (-5~46°C)	
Heating capacity (Nominal)	*2	BTU/h	270,000	
		kW	79.1	
	(460)	Power input	kW	21.86
		Current input	A	30.4
	(Rated)	BTU/h	258,000	
		kW	75.6	
	(460)	Power input	kW	20.70
		Current input	A	28.8
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)	
	Outdoor	W.B.	-4~60°F (-20~15.5°C)	
Indoor unit	Total capacity	50~130% of outdoor unit capacity		
	Model/Quantity	P06~P96/2~50		
Sound pressure level (measured in anechoic room)		dB <A>		
		63.0		
Refrigerant piping diameter	Liquid pipe	in. (mm)		
	Gas pipe	5/8 (15.88) Brazed		
		1-1/8 (28.58) Brazed		

Set Model		PUHY-P120YKMU-A (-BS)		PUHY-P120YKMU-A (-BS)		
Minimum Circuit Ampacity		A	20	20		
Maximum Overcurrent Protection		A	33	33		
FAN	Type x Quantity		Propeller fan x 2		Propeller fan x 2	
	Airflow rate	cfm	11,300	11,300		
		m ³ /min	320	320		
		L/s	5,330	5,330		
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output	kW	0.92+0.92	0.92+0.92		
*3	External static press.	0 in.WG (0 Pa)		0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter		Inverter	
	Motor output	kW	8.1 x 1	8.1 x 1		
	Case heater	kW	-	-		
	Lubricant		MEL32		MEL32	
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D		in.	64-31/32 x 68-29/32 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32		
		mm	1,650 x 1,750 x 740	1,650 x 1,750 x 740		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection	
	Fan motor		Thermal switch		Thermal switch	
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)		R410A x 26 lbs + 1 oz (11.8 kg)	
	Control		LEV and HIC circuit			
Net weight		lbs (kg)	726 (329)	726 (329)		
Heat exchanger		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure		
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed		
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed		
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)				
Drawing	External	KD94R338				
	Wiring	KE94C643		KE94C643		
Standard attachment	Document	Installation Manual				
	Accessory	Details refer to External Drw				
Optional parts		Outdoor Twinning kit: CMY-Y100CBK3 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G				
Remarks		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				

Notes:	Unit converter
1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h = kW x 3.412
2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm = m ³ /min x 35.31
3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs = kg / 0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	* Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Outdoor Model			PUHY-P264YSKMU-A (-BS)		
Indoor Model			Non-Ducted		Ducted
Power source			3-phase 3-wire 460 V ±10% 60 Hz		
Cooling capacity (Nominal)	(460)	*1 BTU/h	264,000		
		kW	77.4		
		Power input kW	20.35		
	(Rated)	Current input A	28.3		
		BTU/h	252,000		
		kW	73.9		
(460)	Power input kW	19.39	18.29		
	Current input A	27.0	25.5		
	Temp. range of cooling	Indoor W.B.	59~75°F (15~24°C)		
	Outdoor D.B.	23~115°F (-5~46°C)			
Heating capacity (Nominal)	(460)	*2 BTU/h	295,000		
		kW	86.5		
		Power input kW	23.11		
	(Rated)	Current input A	32.2		
		BTU/h	281,000		
		kW	82.4		
(460)	Power input kW	22.07	20.72		
	Current input A	30.7	28.8		
	Temp. range of heating	Indoor D.B.	59~81°F (15~27°C)		
	Outdoor W.B.	-4~60°F (-20~15.5°C)			
Indoor unit	Total capacity		50~130% of outdoor unit capacity		
	Model/Quantity		P06-P96/2-50		
Sound pressure level (measured in anechoic room)		dB <A>	63.5		
Refrigerant	Liquid pipe		in. (mm)		
piping diameter	Gas pipe		in. (mm)		
			1-3/8 (34.93) Brazed		

Set Model			PUHY-P72YKMU-A (-BS)			PUHY-P72YKMU-A (-BS)			PUHY-P120YKMU-A (-BS)		
Model			PUHY-P72YKMU-A (-BS)			PUHY-P72YKMU-A (-BS)			PUHY-P120YKMU-A (-BS)		
Minimum Circuit Ampacity			A			12			20		
Maximum Overcurrent Protection			A			19			33		
FAN	Type x Quantity		Propeller fan x 1			Propeller fan x 1			Propeller fan x 2		
	Airflow rate	cfm	6,200			6,200			11,300		
		m ³ /min	175			175			320		
		L/s	2,920			2,920			5,330		
	Control, Driving mechanism		Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor			Inverter-control, Brushless DC motor		
	Motor output	kW	0.92			0.92			0.92+0.92		
*3 External static press.			0 in.WG (0 Pa)			0 in.WG (0 Pa)			0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1			Inverter scroll hermetic compressor x 1			Inverter scroll hermetic compressor x 1		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION			AC&R Works, MITSUBISHI ELECTRIC CORPORATION			AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter			Inverter			Inverter		
	Motor output	kW	5.5 x 1			5.5 x 1			8.1 x 1		
	Case heater	kW	-			-			-		
	Lubricant		MEL32			MEL32			MEL32		
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		
External dimension H x W x D			in.			64-31/32 x 36-1/4 x 29-5/32			64-31/32 x 36-1/4 x 29-5/32		
			mm			1,650 x 920 x 740			1,650 x 920 x 740		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)			High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-current protection			Over-current protection			Over-current protection		
	Fan motor		Thermal switch			Thermal switch			Thermal switch		
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)			R410A x 19 lbs + 13 oz (9.0 kg)			R410A x 26 lbs + 1 oz (11.8 kg)		
	Control		LEV and HIC circuit			LEV and HIC circuit			LEV and HIC circuit		
Net weight			lbs (kg)			463 (210)			463 (210)		
Heat exchanger			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube			Salt-resistant cross fin & copper tube		
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure			Copper pipe, tube-in-tube structure			Copper pipe, tube-in-tube structure		
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed			3/8 (9.52) Brazed			1/2 (12.7) Brazed		
	Gas pipe	in. (mm)	7/8 (22.2) Brazed			7/8 (22.2) Brazed			1-1/8 (28.58) Brazed		
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)			Auto-defrost mode (Reversed refrigerant cycle)			Auto-defrost mode (Reversed refrigerant cycle)		
Drawing	External		KD94R339			KD94R339			KD94R339		
	Wiring		KE94C641			KE94C641			KE94C643		
Standard attachment	Document		Installation Manual			Installation Manual			Installation Manual		
	Accessory		Details refer to External Drw			Details refer to External Drw			Details refer to External Drw		
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G		
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.		

Notes:	Unit converter
1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h = kW x 3.412
2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm = m ³ /min x 35.31
3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs = kg / 0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Y (K)

Outdoor Model			PUHY-P288YSKMU-A (-BS)						
Indoor Model			Non-Ducted		Ducted				
Power source			3-phase 3-wire 460 V ±10% 60 Hz						
Cooling capacity (Nominal)	*1	BTU/h	288,000						
		kW	84.4						
	(460)	Power input	kW	22.39					
		Current input	A	31.2					
	(Rated)	BTU/h	275,000						
		kW	80.6						
(460)	Power input	kW	21.33	20.13					
	Current input	A	29.7	28.0					
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)						
	Outdoor	D.B.	23~115°F (-5~46°C)						
Heating capacity (Nominal)	*2	BTU/h	323,000						
		kW	94.7						
	(460)	Power input	kW	25.36					
		Current input	A	35.3					
	(Rated)	BTU/h	308,000						
		kW	90.3						
(460)	Power input	kW	24.27	22.69					
	Current input	A	33.8	31.6					
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)						
	Outdoor	W.B.	-4~60°F (-20~15.5°C)						
Indoor unit	Total capacity	50~130% of outdoor unit capacity							
	Model/Quantity	P06~P96/2~50							
Sound pressure level (measured in anechoic room)		dB <A>	64.0						
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed						
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed						
Set Model									
Model		PUHY-P72YKMU-A (-BS)		PUHY-P96YKMU-A (-BS)		PUHY-P120YKMU-A (-BS)			
Minimum Circuit Ampacity		A		12		15			
Maximum Overcurrent Protection		A		19		26			
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 1		Propeller fan x 2		
	Airflow rate	cfm	6,200		6,200		11,300		
		m ³ /min	175		175		320		
		L/s	2,920		2,920		5,330		
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor		
	Motor output		kW	0.92		0.92		0.92+0.92	
*3 External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)		0 in.WG (0 Pa)			
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1		
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
	Starting method		Inverter		Inverter		Inverter		
	Motor output		kW	5.5 x 1		7.1 x 1		8.1 x 1	
	Case heater		kW	-		-		-	
	Lubricant		MEL32		MEL32		MEL32		
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>			
External dimension H x W x D		in.	64-31/32 x 36-1/4 x 29-5/32		64-31/32 x 48-1/16 x 29-5/32		64-31/32 x 68-29/32 x 29-5/32		
		mm	1,650 x 920 x 740		1,650 x 1,220 x 740		1,650 x 1,750 x 740		
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection		Over-current protection		
	Fan motor		Thermal switch		Thermal switch		Thermal switch		
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)		R410A x 25 lbs + 6 oz (11.5 kg)		R410A x 26 lbs + 1 oz (11.8 kg)		
	Control		LEV and HIC circuit						
Net weight		lbs (kg)	463 (210)		558 (253)		726 (329)		
Heat exchanger		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube			
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure			
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		3/8 (9.52) Brazed		1/2 (12.7) Brazed		
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed		1-1/8 (28.58) Brazed		
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)							
Drawing	External	KD94R340		KE94C641		KE94C643			
	Wiring	KE94C641		KE94C641		KE94C643			
Standard attachment	Document	Installation Manual							
	Accessory	Details refer to External Drw							
Optional parts		Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2, CMY-Y202S-G2, CMY-Y302S-G2 Header: CMY-Y104/108/1010C-G							
Remarks		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.							

Notes:	Unit converter
1.Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h =kW x 3.412
2.Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm =m ³ /min x 35.31
3.External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs =kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

U11 2nd

Y (K)

Outdoor Model			PUHY-P312YSKMU-A (-BS)			
Indoor Model			Non-Ducted		Ducted	
Power source			3-phase 3-wire 460 V ±10% 60 Hz			
Cooling capacity (Nominal)	*1	BTU/h	312,000			
		kW	91.4			
	(460)	Power input	kW	24.87		
		Current input	A	34.6		
	(Rated)	BTU/h	297,000			
		kW	87.0			
	(460)	Power input	kW	23.70	22.36	
		Current input	A	33.0	31.1	
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)			
	Outdoor	D.B.	23~115°F (-5~46°C)			
Heating capacity (Nominal)	*2	BTU/h	350,000			
		kW	102.6			
	(460)	Power input	kW	28.71		
		Current input	A	40.0		
	(Rated)	BTU/h	334,000			
		kW	97.9			
	(460)	Power input	kW	27.53	25.64	
		Current input	A	38.3	35.7	
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)			
	Outdoor	W.B.	-4~60°F (-20~15.5°C)			
Indoor unit	Total capacity	50~130% of outdoor unit capacity				
	Model/Quantity	P06~P96/2~50				
Sound pressure level (measured in anechoic room)			dB <A>			
			64.5			
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed			
	Gas pipe	in. (mm)	1-3/8 (34.93) Brazed			
Set Model						
Model			PUHY-P72YKMU-A (-BS)	PUHY-P120YKMU-A (-BS)	PUHY-P120YKMU-A (-BS)	
Minimum Circuit Ampacity			A	12	20	
Maximum Overcurrent Protection			A	19	33	
FAN	Type x Quantity		Propeller fan x 1		Propeller fan x 2	
	Airflow rate	cfm	6,200		11,300	
		m ³ /min	175		320	
		L/s	2,920		5,330	
	Control, Driving mechanism		Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor	
	Motor output		kW		0.92+0.92	
	*3 External static press.		0 in.WG (0 Pa)		0 in.WG (0 Pa)	
	Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1		Inverter scroll hermetic compressor x 1
Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		AC&R Works, MITSUBISHI ELECTRIC CORPORATION		
Starting method		Inverter		Inverter		
Motor output		kW		5.5 x 1		
Case heater		kW		-		
Lubricant		MEL32		MEL32		
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D			in.		64-31/32 x 36-1/4 x 29-5/32	
			mm		1,650 x 920 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection		Over-current protection	
	Fan motor		Thermal switch		Thermal switch	
Refrigerant	Type x original charge		R410A x 19 lbs + 13 oz (9.0 kg)		R410A x 26 lbs + 1 oz (11.8 kg)	
	Control		LEV and HIC circuit			
Net weight			lbs (kg)		463 (210)	
					726 (329)	
Heat exchanger			Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure	
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		1/2 (12.7) Brazed	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		1-1/8 (28.58) Brazed	
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)			
Drawing	External		KD94R341			
	Wiring		KE94C641		KE94C643	
Standard attachment	Document		Installation Manual			
	Accessory		Details refer to External Drw			
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

Notes:		Unit converter
1.Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)		BTU/h = kW x 3.412
2.Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)		cfm = m ³ /min x 35.31
3.External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).		lbs = kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.		*Above specification data is subject to rounding variation.

1. SPECIFICATIONS

Y (K)

Outdoor Model			PUHY-P336YSKMU-A (-BS)			
Indoor Model			Non-Ducted		Ducted	
Power source			3-phase 3-wire 460 V ±10% 60 Hz			
Cooling capacity (Nominal)	*1	BTU/h	336,000			
		kW	98.5			
	(460)	Power input	kW	27.21		
		Current input	A	37.9		
	(Rated)	(460)	BTU/h	320,000		
			kW	93.8		
(460)	Power input	kW	25.82	24.57		
	Current input	A	36.0	34.2		
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)			
	Outdoor	D.B.	23~115°F (-5~46°C)			
Heating capacity (Nominal)	*2	BTU/h	378,000			
		kW	110.8			
	(460)	Power input	kW	31.73		
		Current input	A	44.2		
	(Rated)	(460)	BTU/h	361,000		
			kW	105.8		
(460)	Power input	kW	30.61	28.14		
	Current input	A	42.6	39.2		
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)			
	Outdoor	W.B.	-4~60°F (-20~15.5°C)			
Indoor unit	Total capacity	50~130% of outdoor unit capacity				
	Model/Quantity	P06~P96/2~50				
Sound pressure level (measured in anechoic room)		dB <A>	64.5			
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/4 (19.05) Brazed			
	Gas pipe	in. (mm)	1-5/8 (41.28) Brazed			
Set Model						
Model			PUHY-P96YKMU-A (-BS)	PUHY-P120YKMU-A (-BS)	PUHY-P120YKMU-A (-BS)	
Minimum Circuit Ampacity		A	15	20	20	
Maximum Overcurrent Protection		A	26	33	33	
FAN	Type x Quantity		Propeller fan x 1	Propeller fan x 2	Propeller fan x 2	
	Airflow rate	cfm	6,200	11,300	11,300	
		m ³ /min	175	320	320	
		L/s	2,920	5,330	5,330	
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	
	Motor output	kW	0.92	0.92+0.92	0.92+0.92	
*3 External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	Inverter	Inverter	
	Motor output	kW	7.1 x 1	8.1 x 1	8.1 x 1	
	Case heater	kW	-	-	-	
	Lubricant		MEL32	MEL32	MEL32	
External finish		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>		Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D		in.	64-31/32 x 48-1/16 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32	
		mm	1,650 x 1,220 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740	
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection	Over-current protection	Over-current protection	
	Fan motor		Thermal switch	Thermal switch	Thermal switch	
Refrigerant	Type x original charge		R410A x 25 lbs + 6 oz (11.5 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	
	Control		LEV and HIC circuit			
Net weight	lbs (kg)	558 (253)	726 (329)	726 (329)		
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure	Copper pipe, tube-in-tube structure	
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)				
Drawing	External	KD94R342				
	Wiring	KE94C641	KE94C643	KE94C643		
Standard attachment	Document	Installation Manual				
	Accessory	Details refer to External Drw				
Optional parts		Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G				
Remarks		Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.				

Notes: 1.Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.) 2.Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.) 3.External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	Unit converter	
	BTU/h	=kW x 3.412
	cfm	=m ³ /min x 35.31
	lbs	=kg /0.4536
*Above specification data is subject to rounding variation.		

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

1. SPECIFICATIONS

U11 2nd

Outdoor Model			PUHY-P360YSKMU-A (-BS)			
Indoor Model			Non-Ducted		Ducted	
Power source			3-phase 3-wire 460 V ±10% 60 Hz			
Cooling capacity (Nominal)	(460)	*1 BTU/h	360,000			
		kW	105.5			
		Power input kW	29.65			
	(Rated)	Current input A	41.3			
		BTU/h	342,000			
		kW	100.2			
(460)	Power input kW	28.14		26.77		
	Current input A	39.2		37.3		
Temp. range of cooling	Indoor	W.B.	59~75°F (15~24°C)			
	Outdoor	D.B.	23~115°F (-5~46°C)			
Heating capacity (Nominal)	(460)	*2 BTU/h	405,000			
		kW	118.7			
		Power input kW	35.39			
	(Rated)	Current input A	49.3			
		BTU/h	387,000			
		kW	113.4			
(460)	Power input kW	34.30		31.23		
	Current input A	47.8		43.5		
Temp. range of heating	Indoor	D.B.	59~81°F (15~27°C)			
	Outdoor	W.B.	-4~60°F (-20~15.5°C)			
Indoor unit	Total capacity		50~130% of outdoor unit capacity			
	Model/Quantity		P06-P96/2-50			
Sound pressure level (measured in anechoic room)		dB <A>	65.0			
Refrigerant	Liquid pipe		3/4 (19.05) Brazed			
piping diameter	Gas pipe		1-5/8 (41.28) Brazed			

Set Model			PUHY-P120YKMU-A (-BS)			
Model			PUHY-P120YKMU-A (-BS)	PUHY-P120YKMU-A (-BS)	PUHY-P120YKMU-A (-BS)	
Minimum Circuit Ampacity			A	20	20	20
Maximum Overcurrent Protection			A	33	33	33
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 2	
	Airflow rate	cfm	11,300	11,300	11,300	
		m ³ /min	320	320	320	
		L/s	5,330	5,330	5,330	
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	
	Motor output		kW	0.92+0.92	0.92+0.92	0.92+0.92
*3 External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)		
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	
	Manufacture		AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION	AC&R Works, MITSUBISHI ELECTRIC CORPORATION	
	Starting method		Inverter	Inverter	Inverter	
	Motor output		kW	8.1 x 1	8.1 x 1	8.1 x 1
	Case heater		kW	-	-	-
	Lubricant		MEL32	MEL32	MEL32	
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	
External dimension H x W x D			in.	64-31/32 x 68-29/32 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32	64-31/32 x 68-29/32 x 29-5/32
			mm	1,650 x 1,750 x 740	1,650 x 1,750 x 740	1,650 x 1,750 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit (COMP./FAN)		Over-current protection	Over-current protection	Over-current protection	
	Fan motor		Thermal switch	Thermal switch	Thermal switch	
Refrigerant	Type x original charge		R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)	
	Control		LEV and HIC circuit			
Net weight			lbs (kg)	726 (329)	726 (329)	726 (329)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	Copper pipe, tube-in-tube structure	Copper pipe, tube-in-tube structure	
Pipe between unit and distributor	Liquid pipe		in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	1/2 (12.7) Brazed
	Gas pipe		in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)			
Drawing	External		KD94R343			
	Wiring		KE94C643	KE94C643	KE94C643	
Standard attachment	Document		Installation Manual			
	Accessory		Details refer to External Drw			
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 joint: CMY-Y102SS/LS-G2, CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G			
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.			

Notes:	Unit converter
1. Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)	BTU/h = kW x 3.412
2. Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)	cfm = m ³ /min x 35.31
3. External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa).	lbs = kg /0.4536
* Due to continuing improvement, above specifications may be subject to change without notice.	*Above specification data is subject to rounding variation.

PUHY-P72TKMU-A(-BS)

Unit : mm(in.)

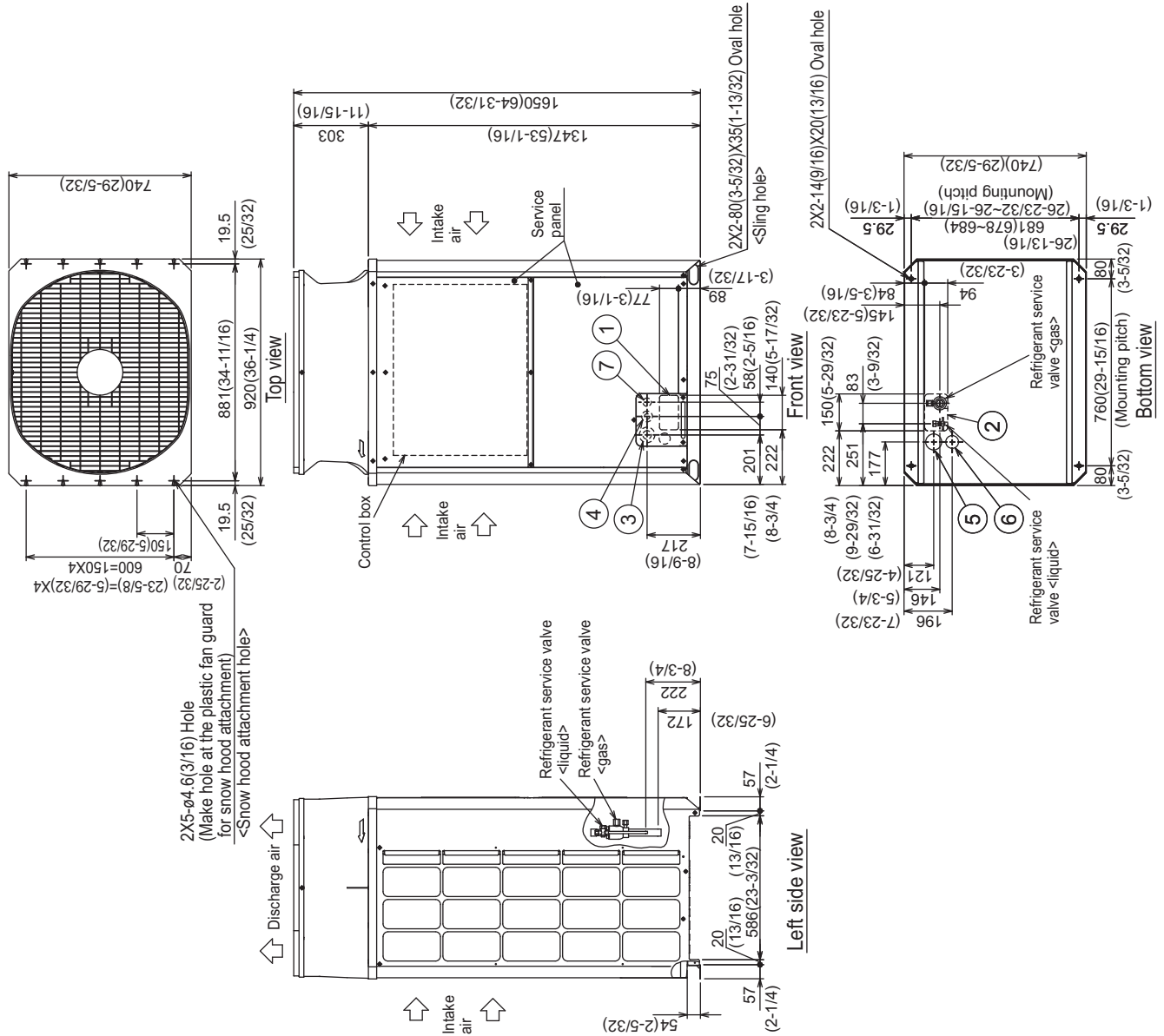
Note1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
 2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Connecting pipe specifications

Model	Refrigerant pipe		Service valve	
	Liquid	Gas	Liquid	Gas
PUHY-P72TKMU	ø9.52 Braze (3/8) *1	ø22.2 Braze (7/8) *2	ø9.52 (3/8)	ø28.58 (1-1/8)

*1 Expand the on-site piping and connect to the refrigerant service valve piping.
 *2 Use the pipe joint(field supply) and connect to the refrigerant service valve piping.

NO	Usage	Specifications
①	For pipes	Front through hole 140 x 77 Knockout hole (5-17/32)(3-1/16)
②		Bottom through hole 150 x 94 Knockout hole (5-29/32)(3-23/32)
③	For wires	Front through hole ø62.7 or ø34.5 Knockout hole (2-15/32)(1-3/8)
④		Front through hole ø43.7 or ø22.2 Knockout hole (1-3/4)(7/8)
⑤		Bottom through hole ø65 Knockout hole (2-9/16)
⑥	Bottom through hole ø52 Knockout hole (2-1/16)	
⑦	For transmission cables	Front through hole ø34 Knockout hole (1-11/32)



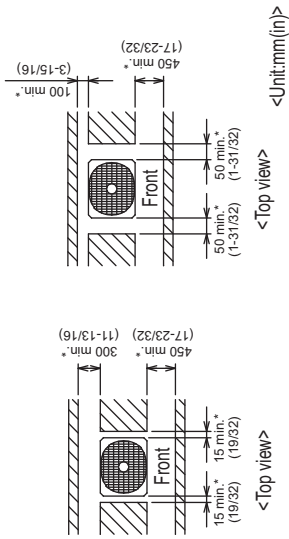
PUHY-P72TKMU-A(-BS)

Unit : mm(in.)

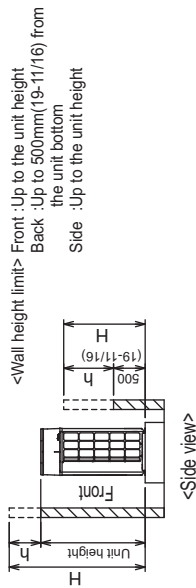
Y (K)

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(11-13/16) to the wall on the back of the unit



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



2. Foundation work

- ① Take into consideration the surface strength, water drainage route, piping route, and wiring route when preparing the installation site.
 <Note that the drain water comes out of the unit during operation.>
- ② Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure.(Fig.A)
 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(1-3/16).(Fig.A)
- ④ Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts.(Fig.B)
- 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.

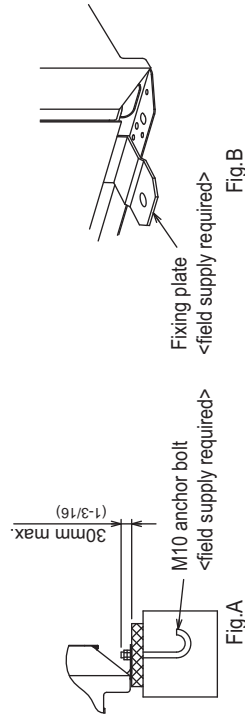
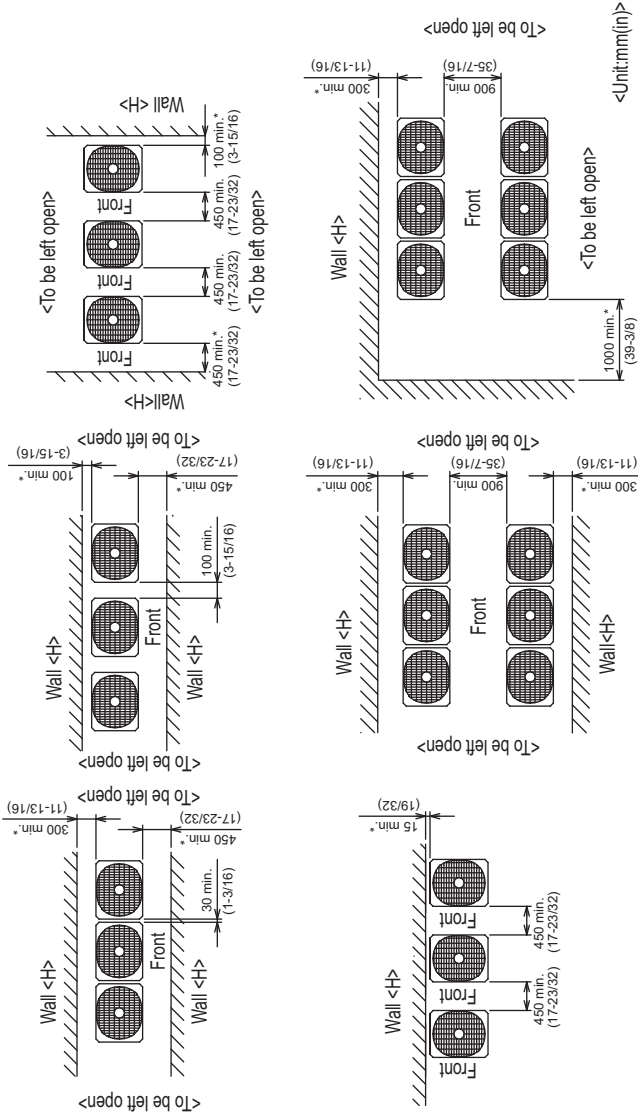


Fig.A

Fig.B

● 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.



30mm max

M10 anchor bolt

<field supply required>

Fixing plate

<field supply required>

PUHY-P96TKMU-A(-BS)

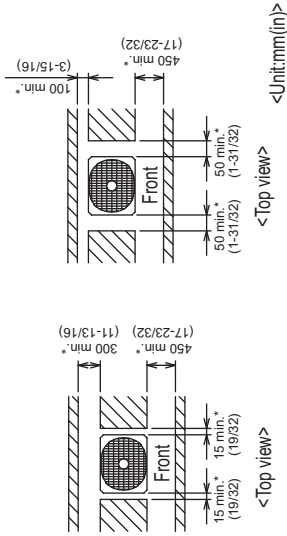
Unit : mm(in.)

Y (K)

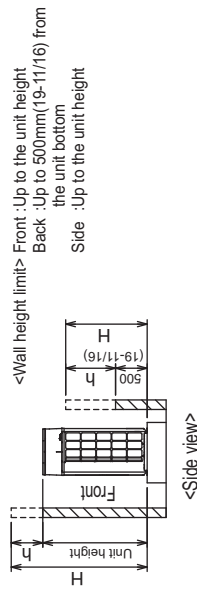
1. Required space around the unit

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

• In case of single installation
 With a space of at least 300mm(11-13/16) to the wall on the back of the unit



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

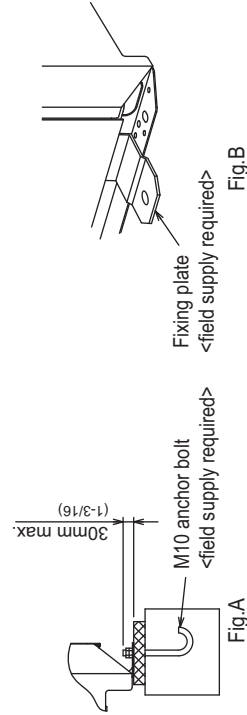
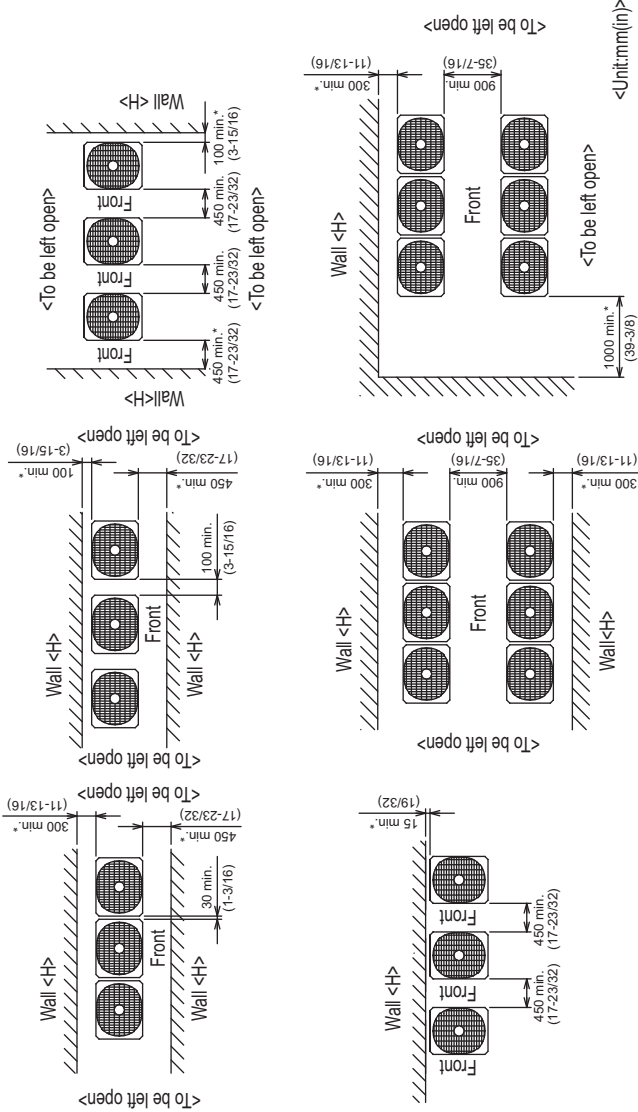


2. Foundation work

- Take into consideration the surface strength, water drainage route, piping route, and wiring route when preparing the installation site.
 <Note that the drain water comes out of the unit during operation.>
- Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure.(Fig.A)
 When using a rubber isolating cushion, please ensure it is large enough to cover the entire width of each of the unit's legs.
- The protrusion length of the anchor bolt must not exceed 30mm(1-3/16).(Fig.A)
- Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts.(Fig.B)
- To prevent small animals and water and snow from entering the unit and damaging its parts, close the gap around the edges of through holes for pipes and wires with filler plates <field supply required>.
- When the pipes or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.
- Refer to the Installation Manual when installing units on an installation base.

• In case of collective installation

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



PUHY-P120,144TKMU-A(-BS)

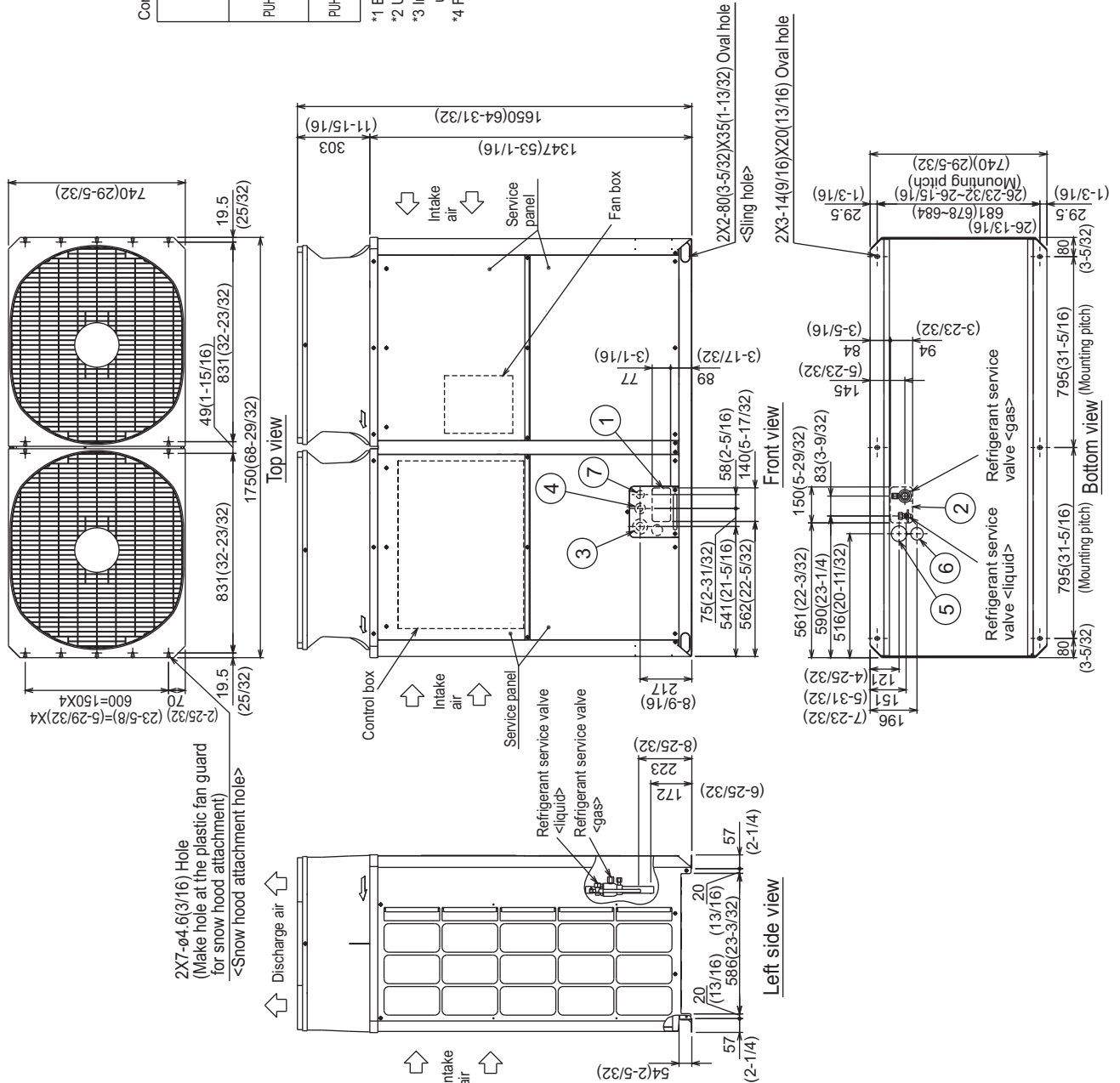
Unit : mm(in.)

Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
 2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Model	Refrigerant pipe		Diameter		Service valve
	Liquid	Gas	Liquid	Gas	
PUHY-P120TKMU	ø9.52 Braze (3/8) *2 (ø12.7 Braze) (1/2) *1 *3 *4	ø28.58 Braze (1-1/8) *2	ø12.7 (1/2)	ø28.58 (1-1/8)	ø28.58 (1-1/8)
PUHY-P144TKMU	ø12.7 Braze (1/2) *1				

*1 Expand the on-site piping and connect to the refrigerant service valve piping.
 *2 Use the pipe joint(field supply) and connect to the refrigerant service valve piping.
 *3 Indicates dimensions and connection specifications in the case the unit is used in combination with other outdoor units.
 *4 Furthest piping length (OU from IU) ≥ 40m(131ft)

NO.	Usage	Specifications
①	Front through hole	140 x 77 Knockout hole (5-17/32)(3-1/16)
②	Bottom through hole	150 x 94 Knockout hole (5-29/32)(3-23/32)
③	Front through hole	ø62.7 or ø34.5 Knockout hole (2-15/32)(1-3/8)
④	Front through hole	ø43.7 or ø22.2 Knockout hole (1-3/4)(7/8)
⑤	Bottom through hole	ø65 Knockout hole (2-9/16)
⑥	Bottom through hole	ø52 Knockout hole (2-1/16)
⑦	Front through hole	ø34 Knockout hole (1-11/32)



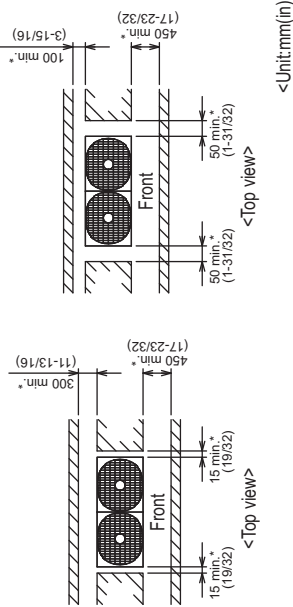
(X) A

PUHY-P120,144TKMU-A(-BS)

Unit : mm(in.)

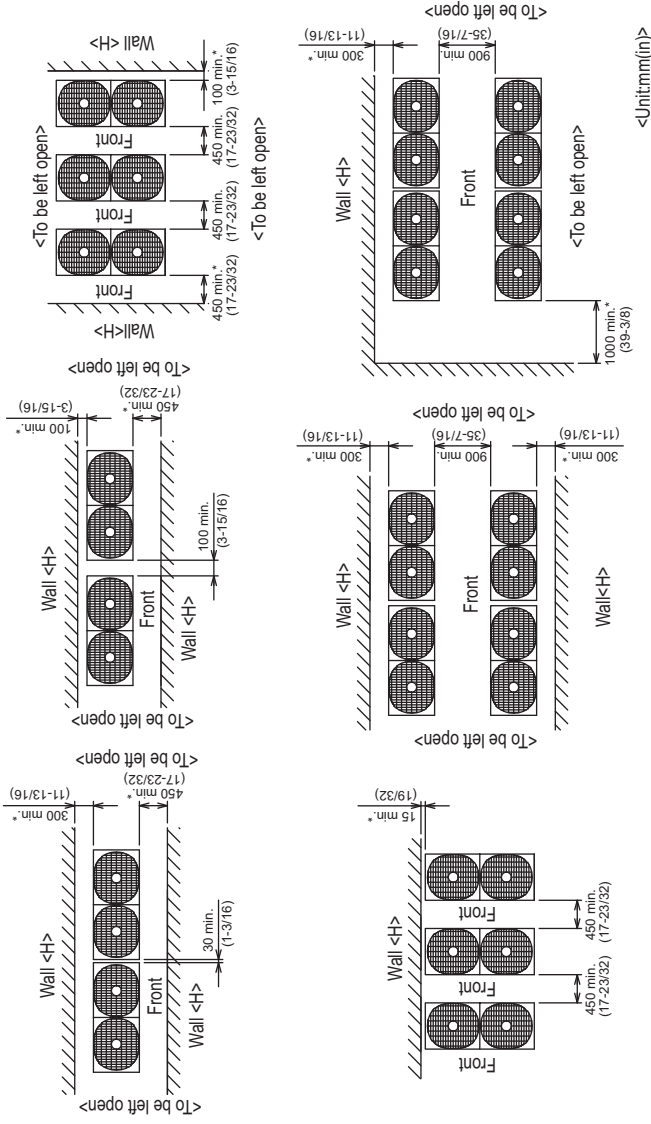
1.Required space around the unit

- 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(11-13/16) to the wall on the back of the unit



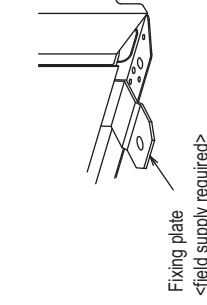
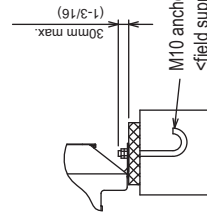
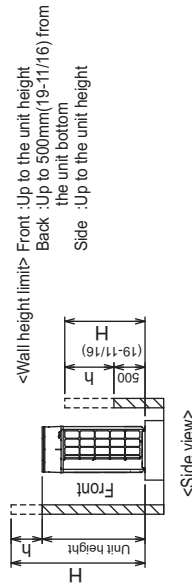
• In case of collective installation

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



2.Foundation work

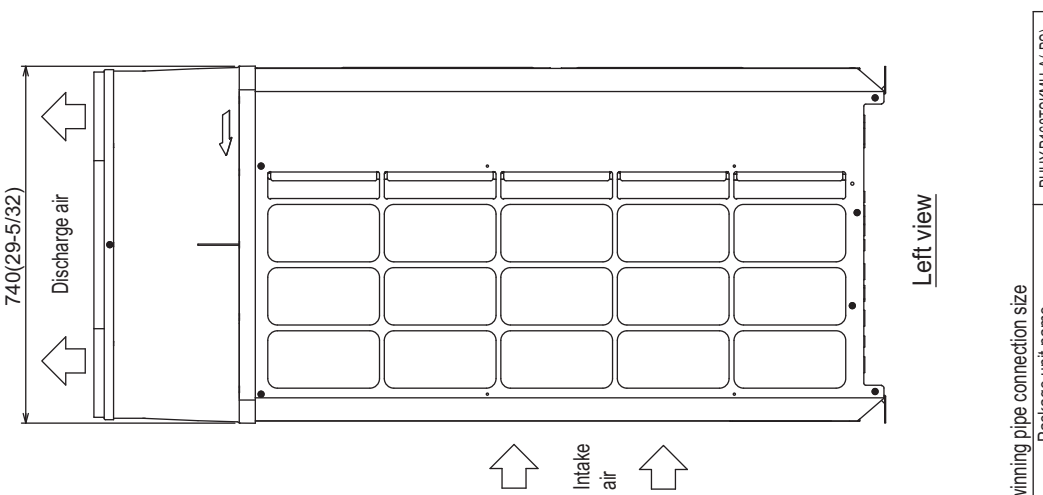
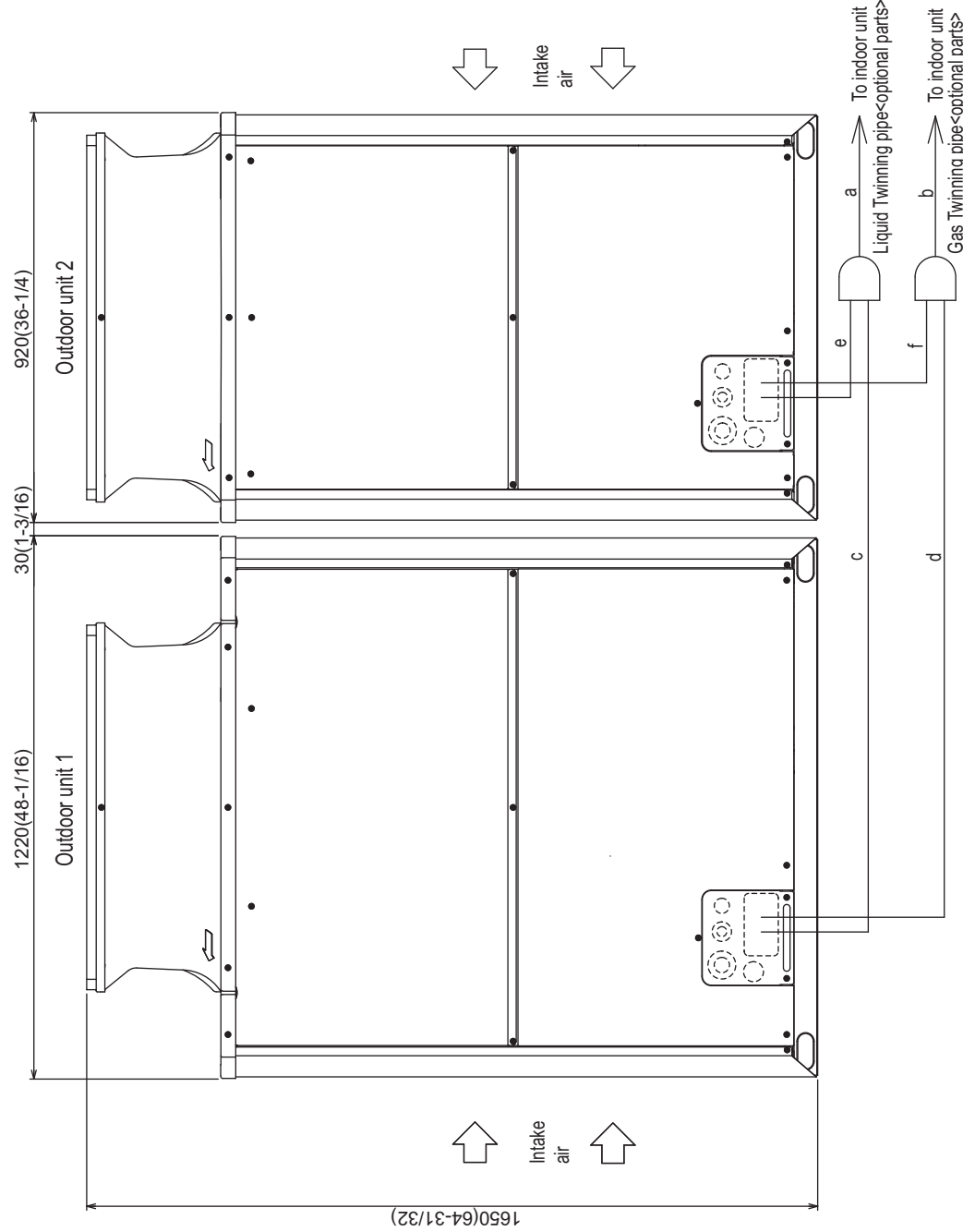
- ① Take into consideration the surface strength, water drainage route, piping route, and wiring route when preparing the installation site.
- ② Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure.(Fig.A)
When using a rubber isolating 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(1-3/16).(Fig.A)
- ④ Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts.(Fig.B)
- 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.



Y (K)

PUHY-P168TSKMU-A(-BS)

Unit : mm(in.)



Front view

Unit model	Liquid c or e	Gas d or f
P72	ø9.52(3/8)	ø22.2(7/8)
P96	ø9.52(3/8)	ø22.2(7/8)

Twinning pipe connection size

Package unit name	PUHY-P168TSKMU-A(-BS)
Outdoor unit 1	PUHY-P96TKMU-A(-BS)
Outdoor unit 2	PUHY-P72TKMU-A(-BS)
Outdoor Twinning Kit(optional parts)	GMV-Y100GBK3
Indoor unit~Twinning pipe	Liquid a
	Gas b
	ø15.88(5/8)
	ø28.58(1-1/8)

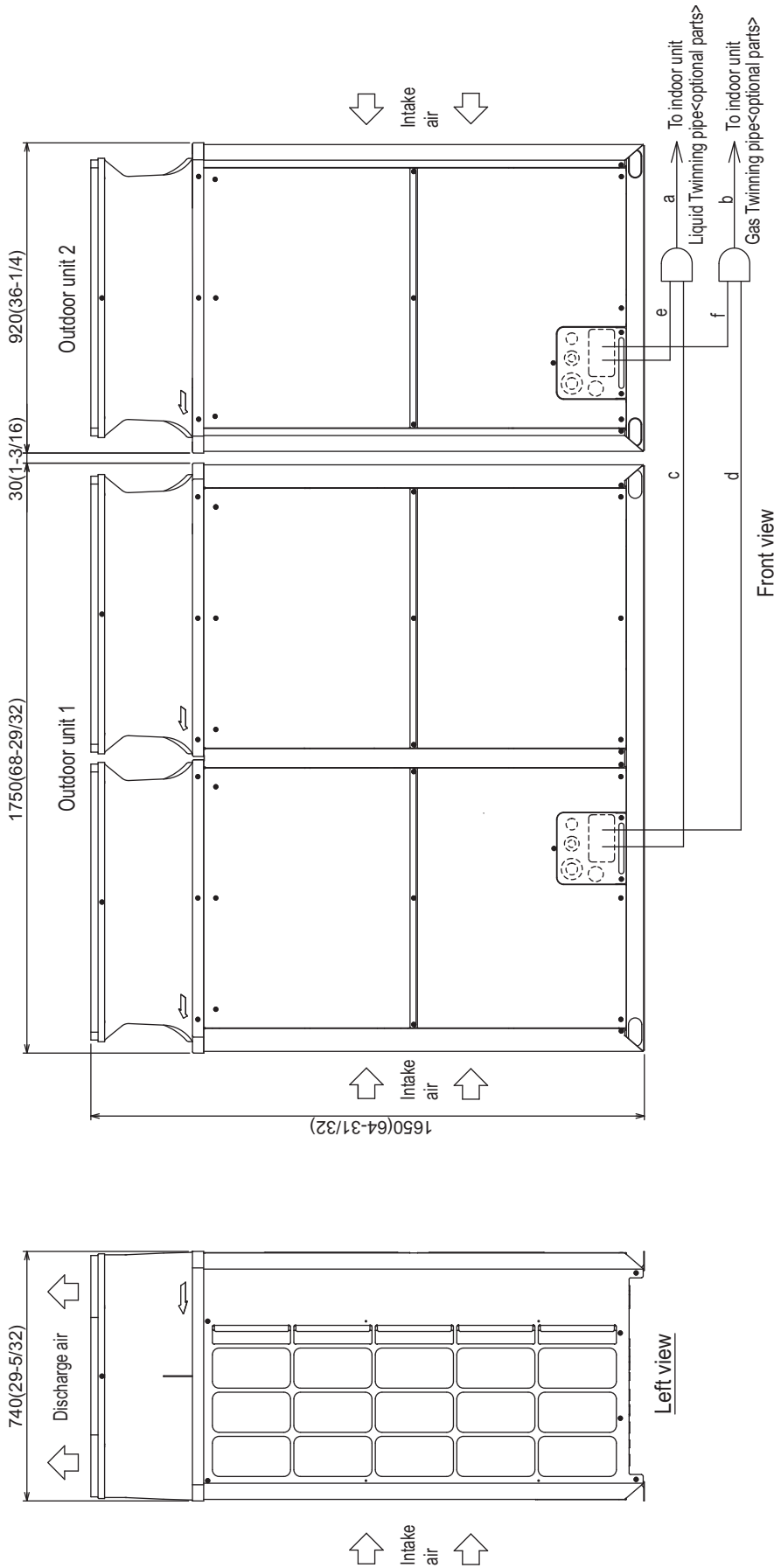
- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane. Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (sections "a" and "b" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

(X) A

Y (K)

PUHY-P192TSKMU-A(-BS)

Unit : mm(in.)



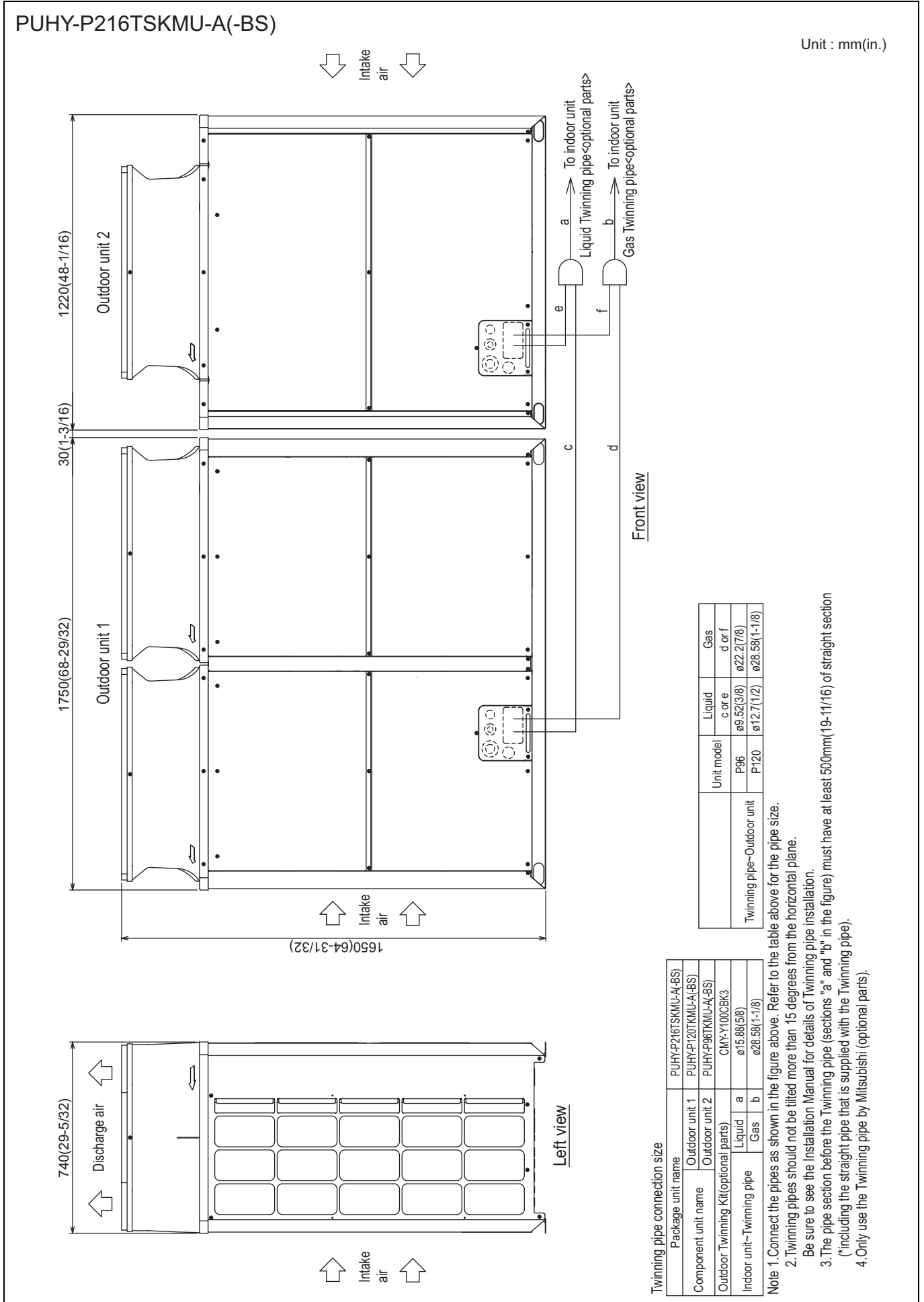
Front view

Unit model	Liquid	Gas
P72	c or e ø9.52(3/8)	d or f ø22.2(7/8)
P120	c or e ø12.7(1/2)	d or f ø28.58(1-1/8)

Twinning pipe connection size

Package unit name	PUHY-P192TSKMU-A(-BS)	
Outdoor unit 1	PUHY-P120TKMU-A(-BS)	
Outdoor unit 2	PUHY-P72TKMU-A(-BS)	
Outdoor Twinning Kit(optional parts)	ONY-Y100CBK3	
Indoor unit-Twinning pipe	Liquid	a ø15.88(5/8)
	Gas	b ø28.58(1-1/8)

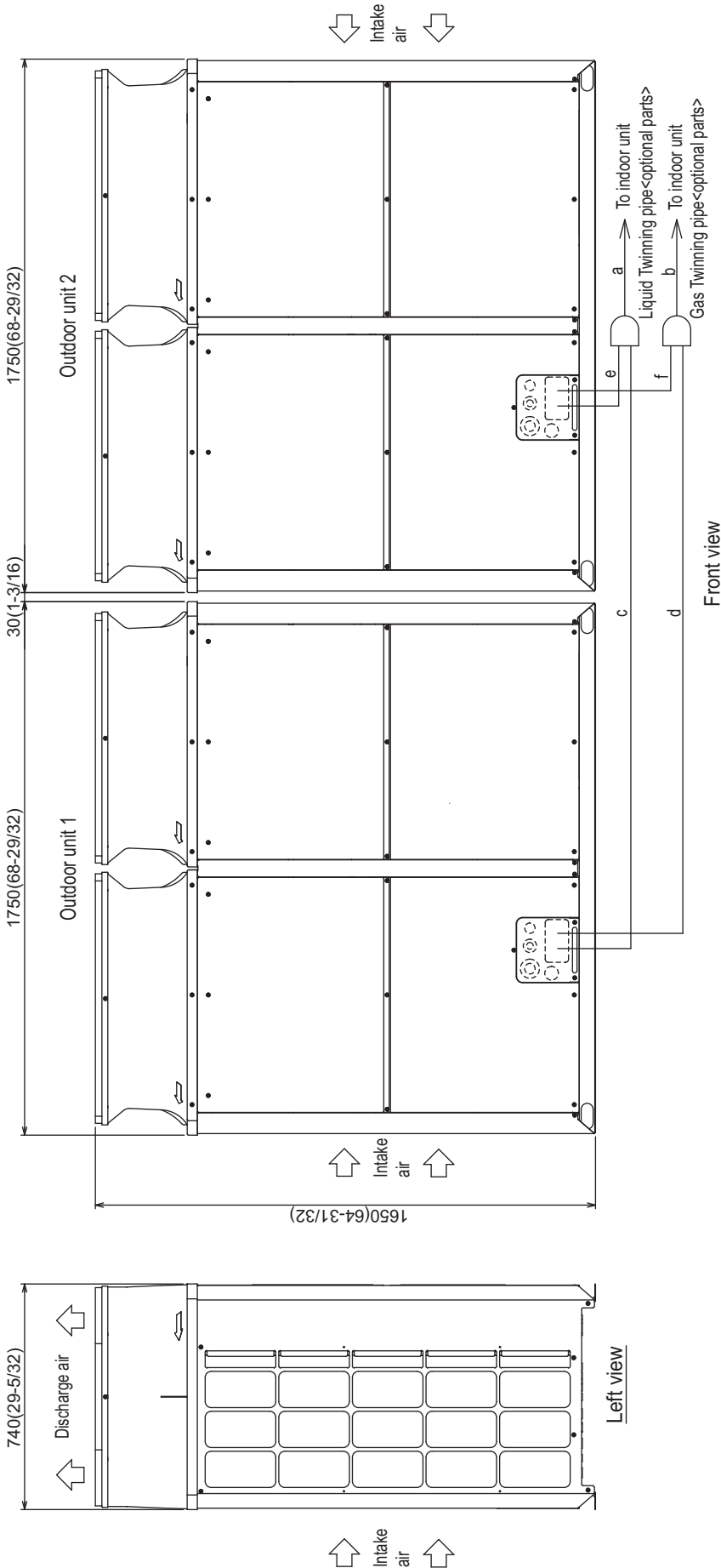
- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
 Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (sections "a" and "b" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).



Y (K)

PUHY-P240TSKMU-A(-BS)

Unit : mm(in.)



Front view

Left view

Twinning pipe connection size

Package unit name	PUHY-P240TSKMU-A(-BS)
Component unit name	Outdoor unit 1 Outdoor unit 2
Outdoor Twinning Kit(optional parts)	GMV-Y100CBK3
Indoor unit~ Twinning pipe	Liquid a
	Gas b
Unit model	P120
Liquid core d or f	ø12.7(1/2)
Gas d or f	ø28.58(1-1/8)

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

2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.

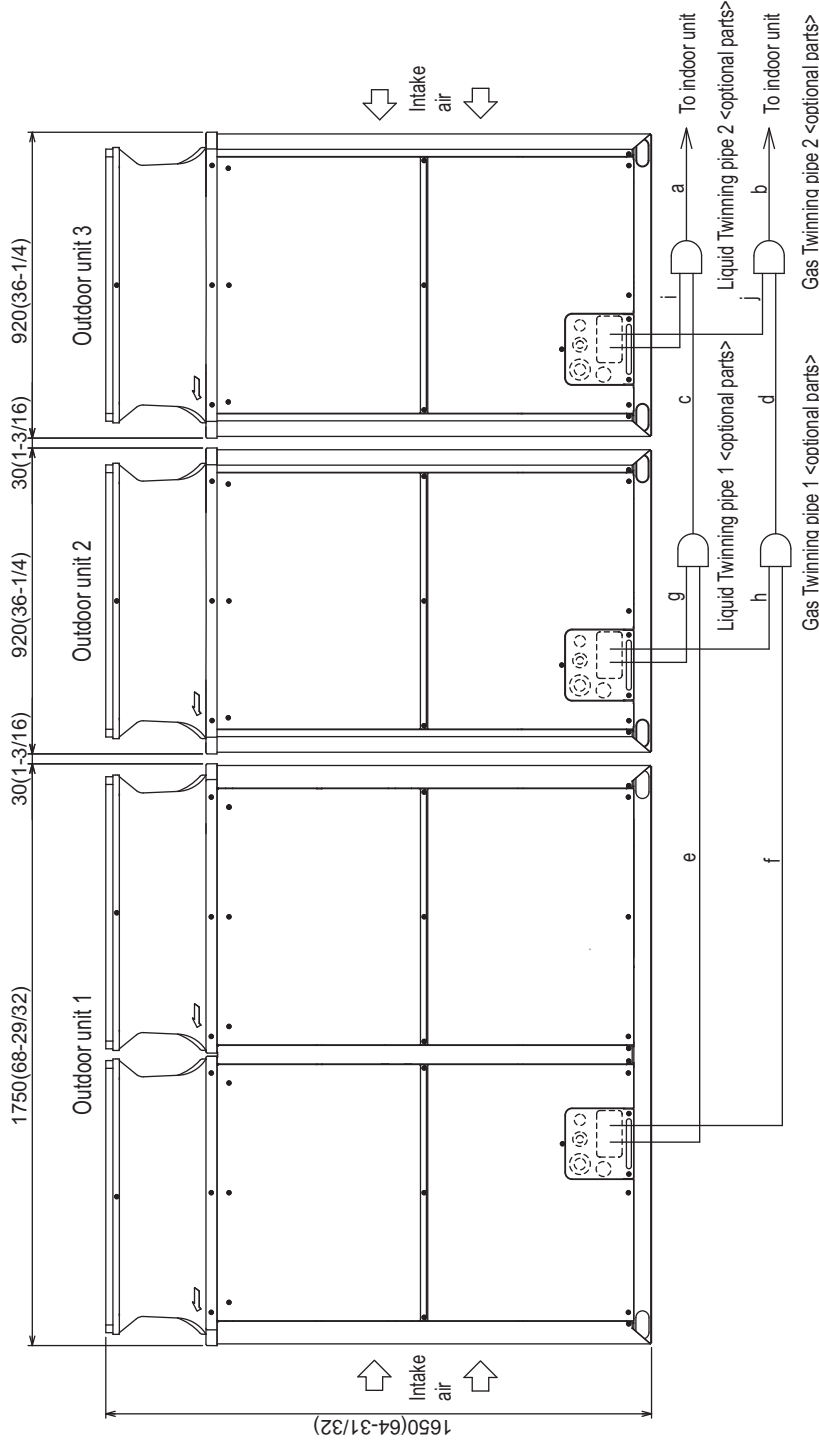
Be sure to see the Installation Manual for details of Twinning pipe installation.

3. The pipe section before the Twinning pipe (sections "a" and "b" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).

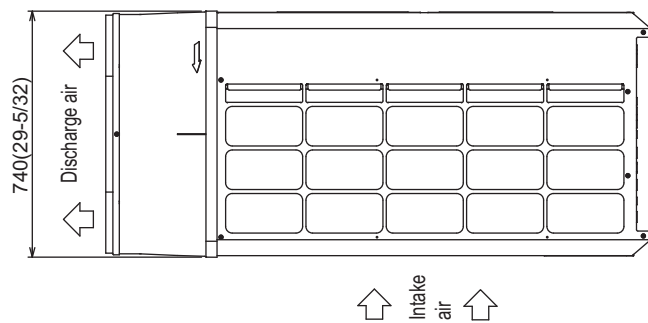
4. Only use the Twinning pipe by Mitsubishi (optional parts).

PUHY-P264TSKMU-A(-BS)

Unit : mm(in.)



Front view



Left view

Twinning pipe connection size

Package unit name	PUHY-P264TSKMU-A(-BS)
Component unit name	Outdoor unit 1 PUHY-P120TKMU-A(-BS) Outdoor unit 2 PUHY-P72TKMU-A(-BS) Outdoor unit 3 PUHY-P72TKMU-A(-BS)
Outdoor Twinning Kit(optional parts)	CMY-Y300CBK2
Indoor unit-Twinning pipe 2	Liquid a $\phi 19.05(3/4)$
	Gas b $\phi 34.93(1-3/8)$
Twinning pipe 1-Twinning pipe 2	Liquid c $\phi 19.05(3/4)$
	Gas d $\phi 34.93(1-3/8)$

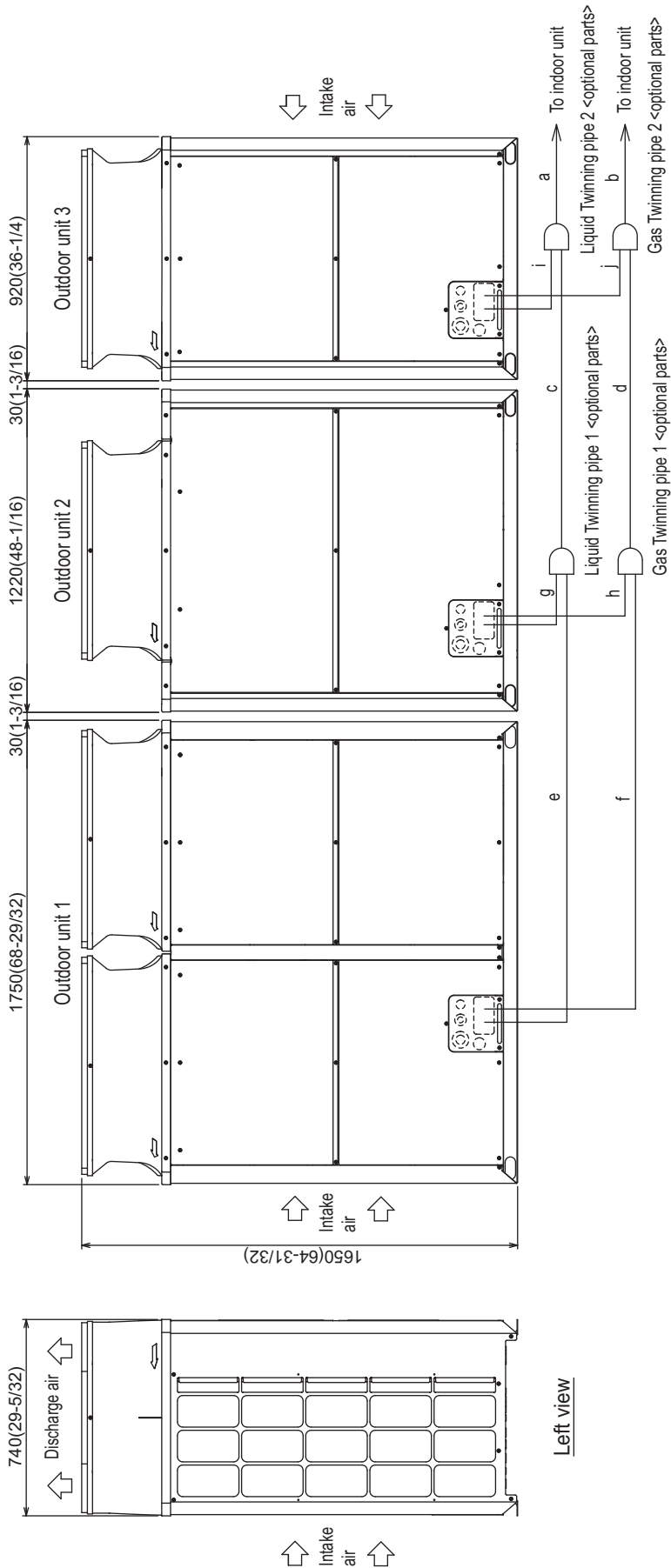
Unit model	Liquid e or g or i	Gas for hor. j
P72	$\phi 9.52(3/8)$	$\phi 22.2(7/8)$
P120	$\phi 12.7(1/2)$	$\phi 28.58(1-1/8)$

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
 Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

PUHY-P288TSKMU-A(-BS)

Unit : mm(in.)

Y (K)



Front view

Left view

Twinning pipe connection size

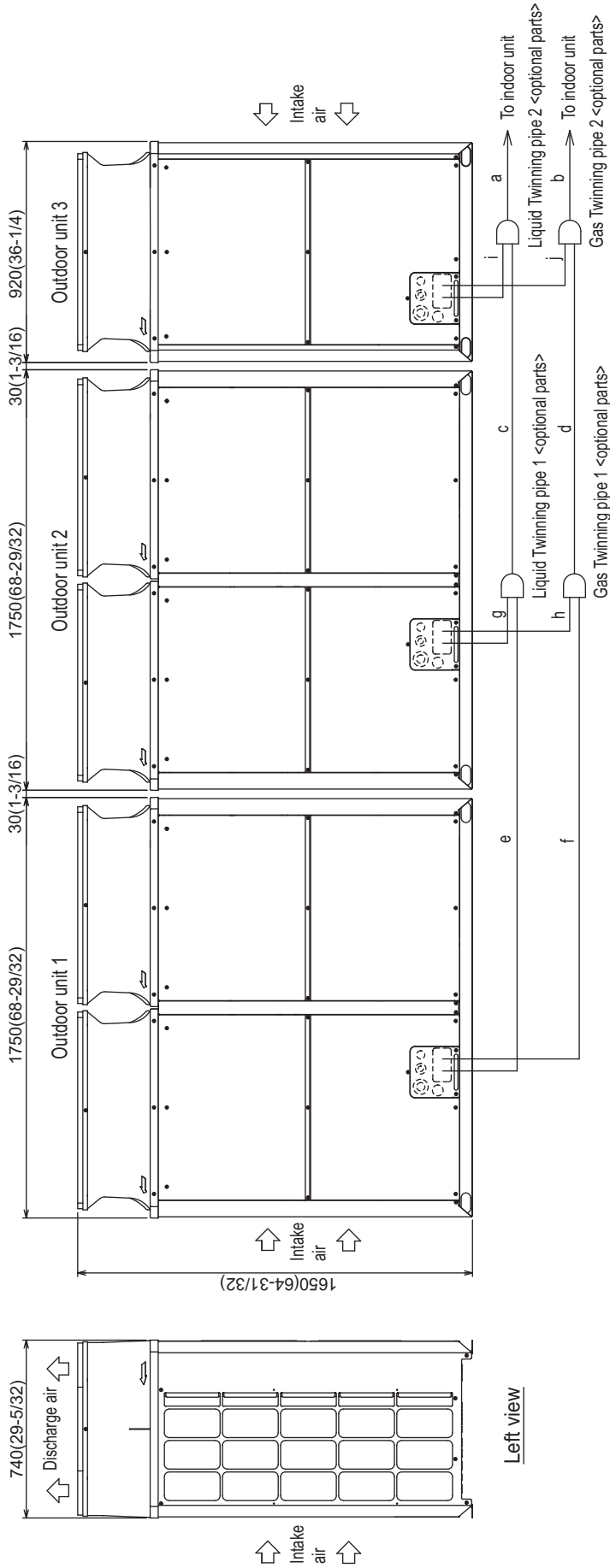
Package unit name	PUHY-P288TSKMU-A(-BS)		
Component unit name	Outdoor unit 1	PUHY-P120TKMU-A(-BS)	
	Outdoor unit 2	PUHY-P96TKMU-A(-BS)	
	Outdoor unit 3	PUHY-P72TKMU-A(-BS)	
Outdoor Twinning Kit(optional parts)	CMY-Y300CBK2		
Indoor unit- Twinning pipe 2	Liquid	a	ø19.05(3/4)
	Gas	b	ø34.93(1-3/8)
Twinning pipe 1- Twinning pipe 2	Liquid	c	ø19.05(3/4)
	Gas	d	ø34.93(1-3/8)

Unit model	Liquid		Gas	
	e or g or i	f or h or j		
P72	ø9.52(3/8)	ø22.2(7/8)		
P96	ø9.52(3/8)	ø22.2(7/8)		
P120	ø12.7(1/2)	ø28.58(1-1/8)		

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
 Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

PUHY-P312TSKMU-A(-BS)

Unit : mm(in.)



Front view

Left view

Twinning pipe connection size

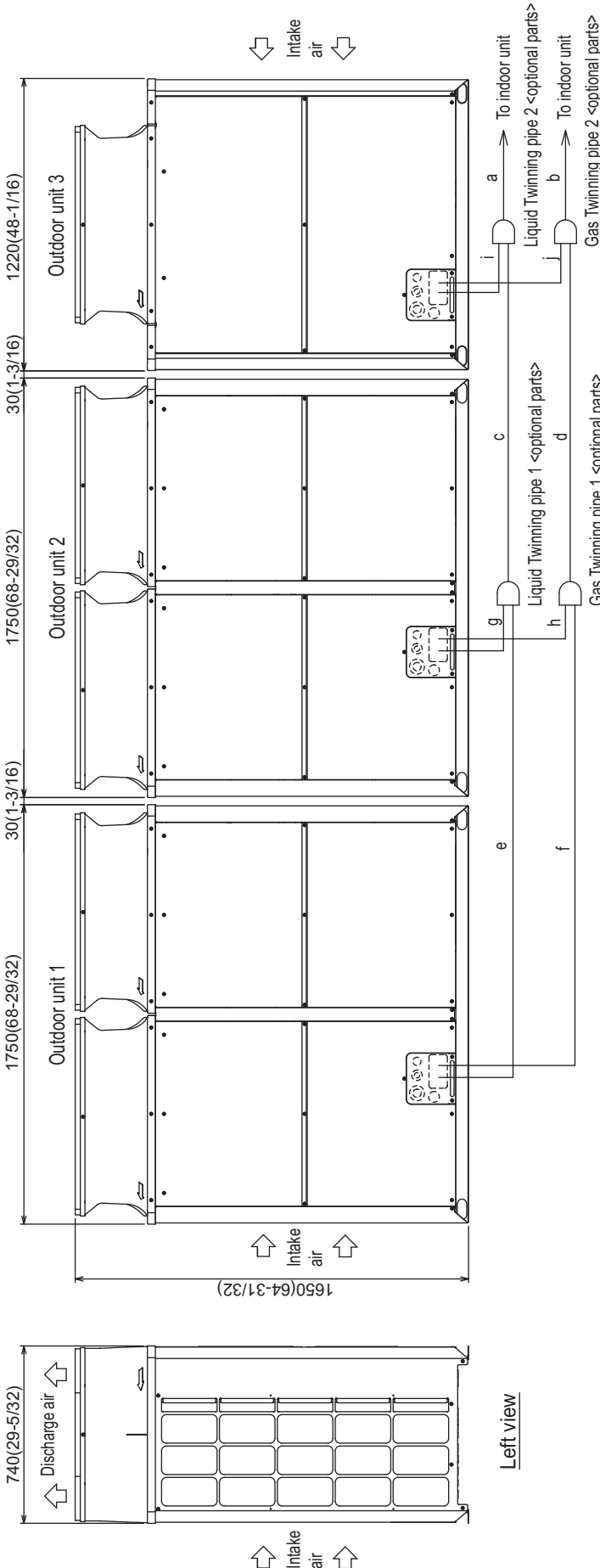
Package unit name	PUHY-P312TSKMU-A(-BS)	
Outdoor unit 1	PUHY-P120TKMU-A(-BS)	
Outdoor unit 2	PUHY-P120TKMU-A(-BS)	
Outdoor unit 3	PUHY-P120TKMU-A(-BS)	
Outdoor Twinning Kit(optional parts)	CMY-Y300CBK2	
Indoor unit- Twinning pipe 2	Liquid a	ø19.05(3/4)
	Gas b	ø34.93(1-3/8)
	Liquid c	ø19.05(3/4)
Twinning pipe- 1~Twinning pipe 2	Gas d	ø34.93(1-3/8)

Twinning pipe-Outdoor unit	Unit model	Liquid	Gas
	P72	e or g or i ø9.52(3/8)	f or h or j ø22.2(7/8)
P120	ø12.7(1/2)	ø28.58(1-1/8)	

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
 Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

PUHY-P336TSKMU-A(-BS)

Unit : mm(in.)



Front view

Left view

Twinning pipe connection size

Package unit name	PUHY-P336TSKMU-A(-BS)	
Outdoor unit 1	PUHY-P20TKMU-A(-BS)	
Outdoor unit 2	PUHY-P20TKMU-A(-BS)	
Outdoor unit 3	PUHY-P36TKMU-A(-BS)	
Outdoor Twinning Kit(optional parts)	OMY-X300CBK2	
Indoor unit-Twinning pipe 2	Liquid a	ø19.05(3/4)
	Gas b	ø41.28(1-5/8)
Twinning pipe 1-Twinning pipe 2	Liquid c	ø19.05(3/4)
	Gas d	ø34.93(1-3/8)

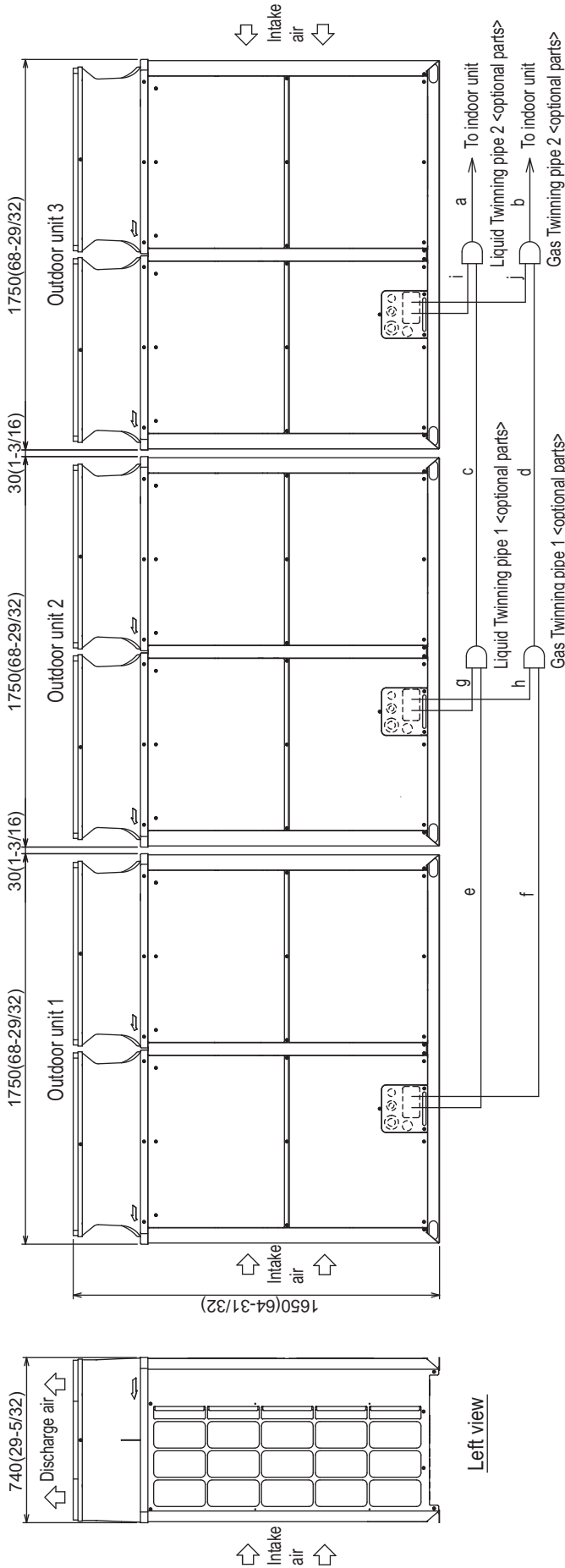
Twinning pipe-Outdoor unit	Unit model	Liquid e or g or i	Gas for hori
P96	P96	ø9.52(3/8)	ø22.2(7/8)
P120	P120	ø12.7(1/2)	ø28.58(1-1/8)

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
 Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

Y (K)

PUHY-P360TSKMU-A(-BS)

Unit : mm(in.)



Front view

Left view

Twinning pipe connection size

Package unit name	PUHY-P360TSKMU-A(-BS)
Outdoor unit 1	PUHY-P120TKMU-A(-BS)
Outdoor unit 2	PUHY-P120TKMU-A(-BS)
Outdoor unit 3	PUHY-P120TKMU-A(-BS)
Outdoor Twinning Kit(optional parts)	CMY-Y300CBK2
Indoor unit-Twinning pipe 2	Liquid a Gas b
Twinning pipe 1-Twinning pipe 2	Liquid c Gas d

Unit model	P120	Liquid e or g or i	Gas for h or j
Twinning pipe-Outdoor unit	ø12.7(1/2)	ø28.58(1-1/8)	

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
 Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

PUHY-P72YKMU-A(-BS)

Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
 2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Connecting pipe specifications

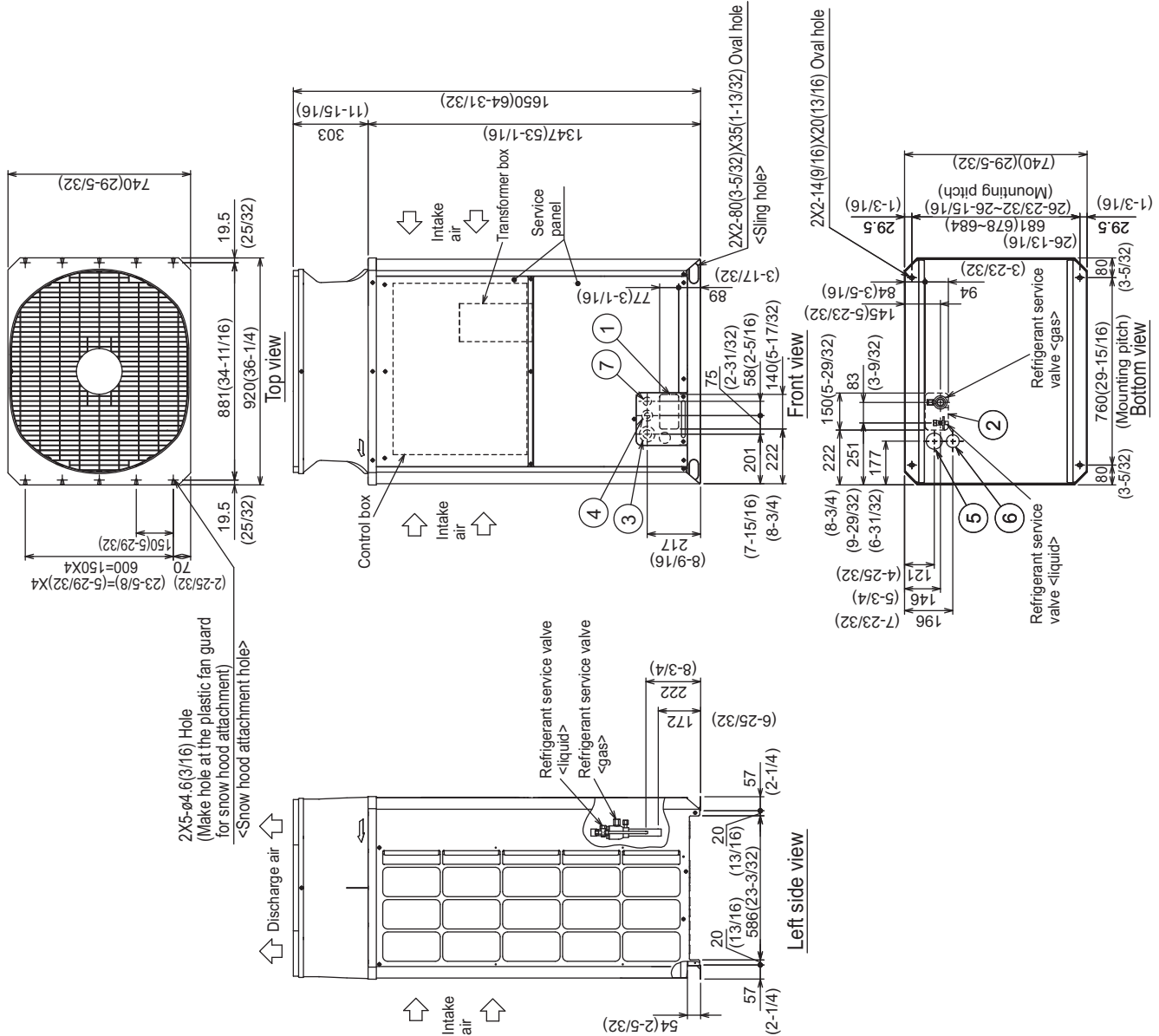
Model	Diameter		
	Refrigerant pipe	Service valve	
	Liquid	Gas	Gas
PUHY-P72YKMU	ø9.52 Brazed (3/8)*1	ø22.2 Brazed (7/8)*2	ø28.58 (1-1/8)

*1 Expand the on-site piping and connect to the refrigerant service valve piping.

*2 Use the pipe joint(field supply) and connect to the refrigerant service valve piping.

NO.	Usage	Specifications
①	For pipes	Front through hole 140 x 77 Knockout hole (5-17/32)(3-1/16)
②		Bottom through hole 150 x 94 Knockout hole (5-29/32)(3-23/32)
③	For wires	Front through hole ø62.7 or ø34.5 Knockout hole (2-15/32)(1-3/8)
④		Front through hole ø43.7 or ø22.2 Knockout hole (1-3/4) (7/8)
⑤		Bottom through hole ø65 Knockout hole (2-9/16)
⑥		Bottom through hole ø52 Knockout hole (2-1/16)
⑦	For transmission cables	Front through hole ø34 Knockout hole (1-11/32)

Unit : mm(in.)



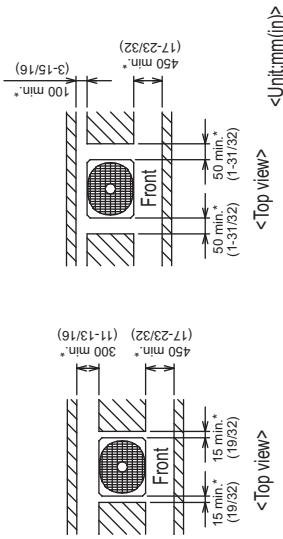
PUHY-P72YKMU-A(-BS)

Unit : mm(in.)

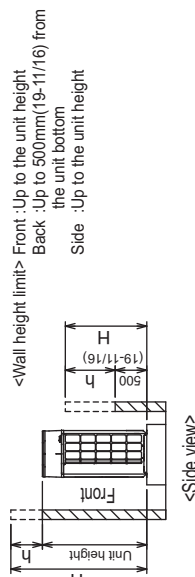
1. Required space around the unit

● 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(11-13/16) to the wall on the back of the unit
- With a space of at least 100mm(3-15/16) to the wall on the back of the unit



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



2. Foundation work

- ① Take into consideration the surface strength, water drainage route, piping route, and wiring route when preparing the installation site.
<Note that the drain water comes out of the unit during operation.>
- ② Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure.(Fig.A)
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(1-3/16).(Fig.A)
- ④ Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts.(Fig.B)
- ⑤ To prevent small animals and water and snow from entering the unit and damaging its parts, close the gap around the edges of through holes for pipes and wires with filler plates <field supply required>.
- ⑥ When the pipes or cables are routed at the bottom of the unit, make sure that the through hole at the base of the unit does not get blocked with the installation base.
- ⑦ Refer to the Installation Manual when installing units on an installation base.

● In case of collective installation

- ① When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and walkway between groups of units as shown in the figures below.
- ② At least two sides must be left open.
- ③ As with the single installation, add the height that exceeds the height limit<h> to the figures that are marked with an asterisk.
- ④ If there is a wall at both the front and the rear of the unit, install up to six units consecutively in the side direction and provide a space of 1000mm or more as inlet space/ passage space for each six units.

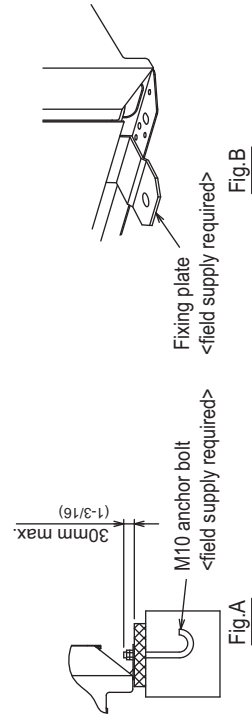
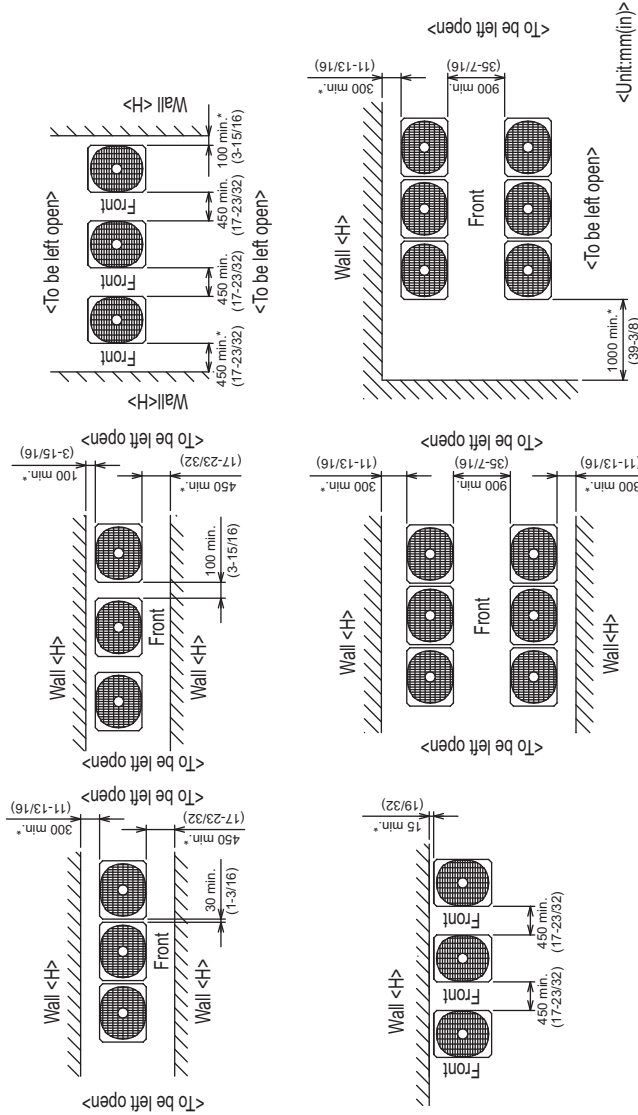


Fig.A

Fig.B

PUHY-P96YKMU-A-(BS)

Unit : mm(in.)

Y (K)

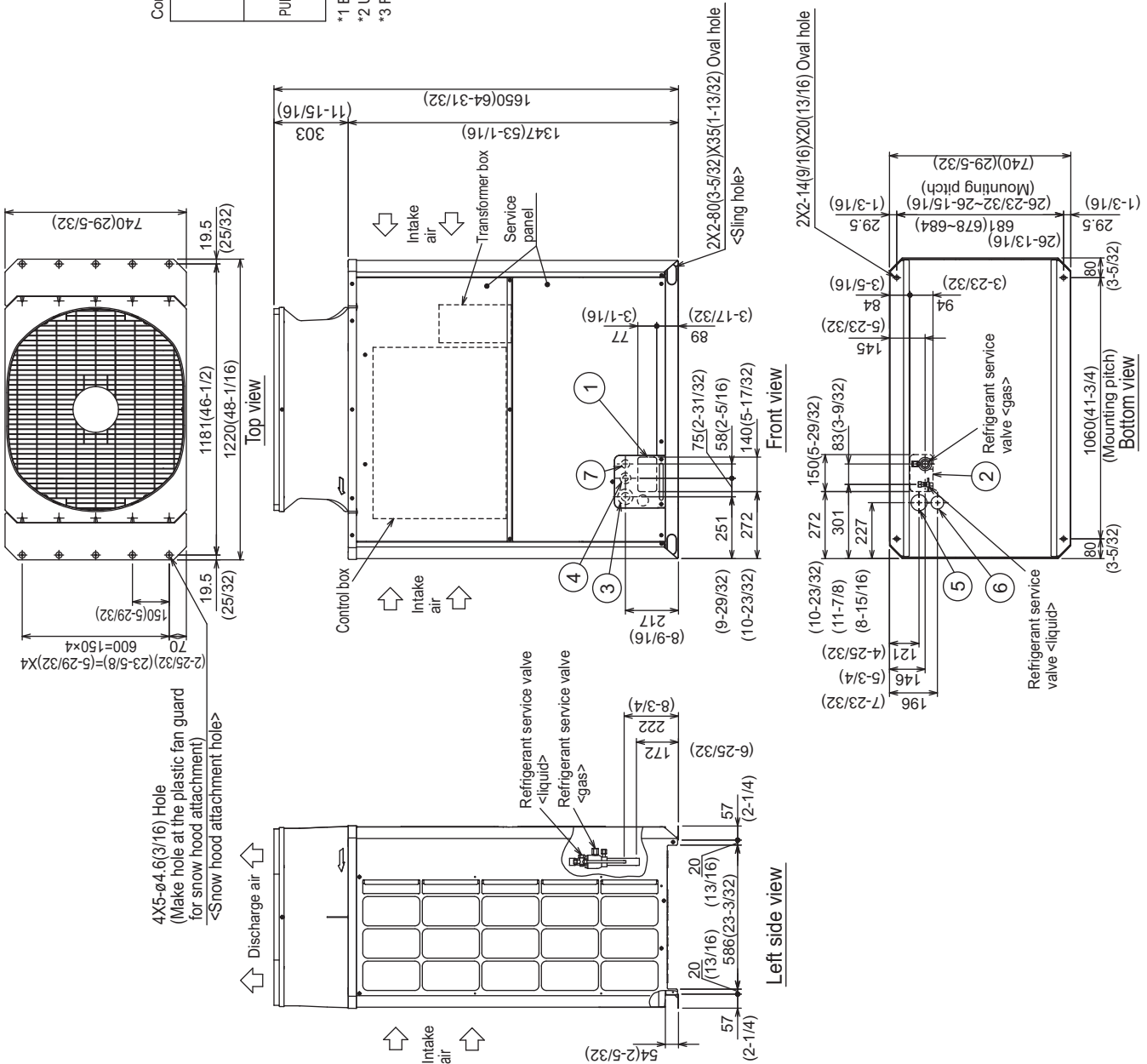
Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
 2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Connecting pipe specifications

Model	Refrigerant pipe		Service valve	
	Liquid	Gas	Liquid	Gas
PUHY-P96YKMU	ø9.52 Brazed (3/8) *1 (ø12.7 Brazed) (1/2) *2 *3	ø22.2 Brazed (7/8) *2	ø9.52 (3/8)	ø28.58 (1-1/8)

*1 Expand the on-site piping and connect to the refrigerant service valve piping.
 *2 Use the pipe joint(field supply) and connect to the refrigerant service valve piping.
 *3 Furthest piping length (OU from IU) ≧ 90m(295ft)

NO.	Usage	Specifications
①	For pipes Front through hole	140 x 77 Knockout hole (5-17/32) (3-1/16)
②	For pipes Bottom through hole	150 x 94 Knockout hole (5-29/32) (3-23/32)
③	For pipes Front through hole	ø62.7 or ø34.5 Knockout hole (2-15/32) (1-3/8)
④	For pipes Front through hole	ø43.7 or ø22.2 Knockout hole (1-3/4) (7/8)
⑤	For wires Bottom through hole	ø65 Knockout hole (2-9/16)
⑥	For wires Bottom through hole	ø52 Knockout hole (2-1/16)
⑦	For transmission cables Front through hole	ø34 Knockout hole (1-11/32)



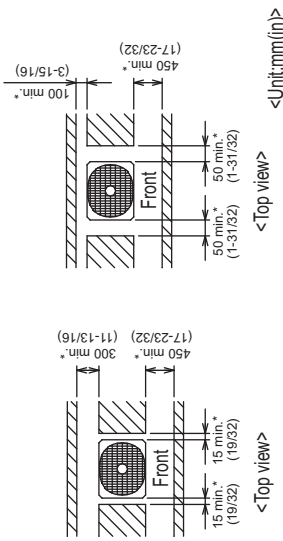
PUHY-P96YKMU-A(-BS)

Unit : mm(in.)

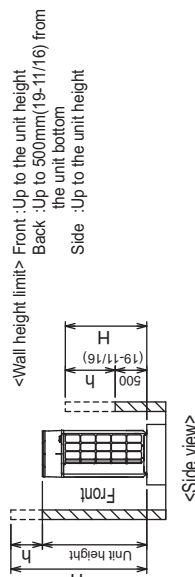
1. Required space around the unit

● 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(11-13/16) to the wall on the back of the unit
- With a space of at least 100mm(3-15/16) to the wall on the back of the unit



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

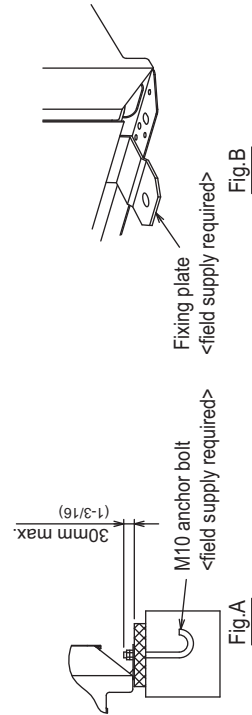
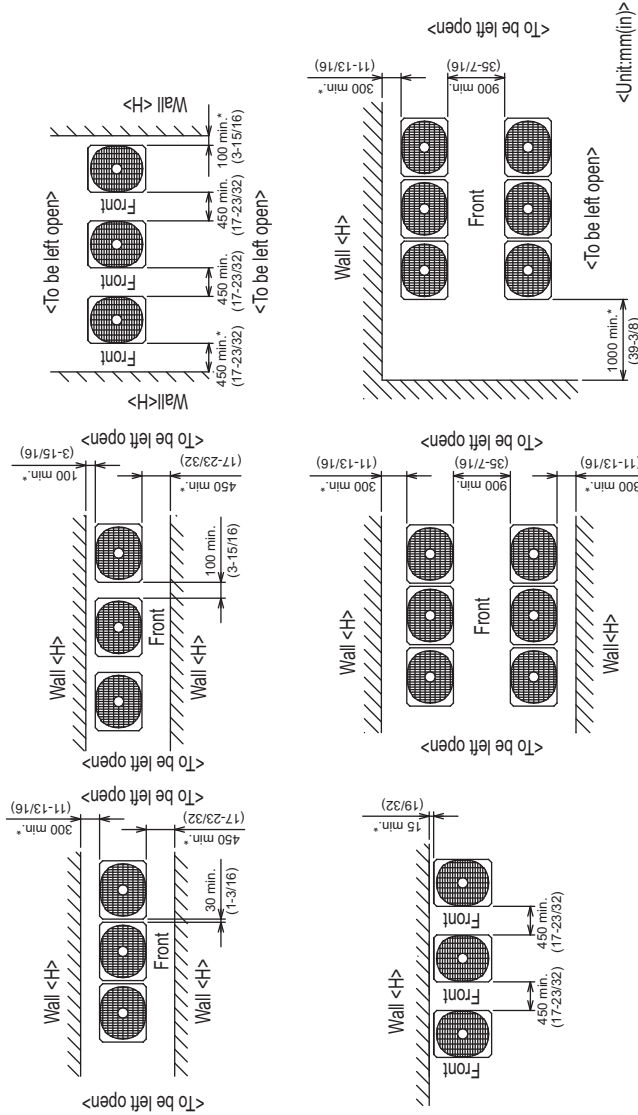


2. Foundation work

- ① Take into consideration the surface strength, water drainage route, piping route, and wiring route when preparing the installation site.
<Note that the drain water comes out of the unit during operation.>
- ② Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure.(Fig.A)
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(1-3/16).(Fig.A)
- ④ Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts.(Fig.B)
- 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.



PUHY-P120,144YKMU-A(-BS)

Note1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
 2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

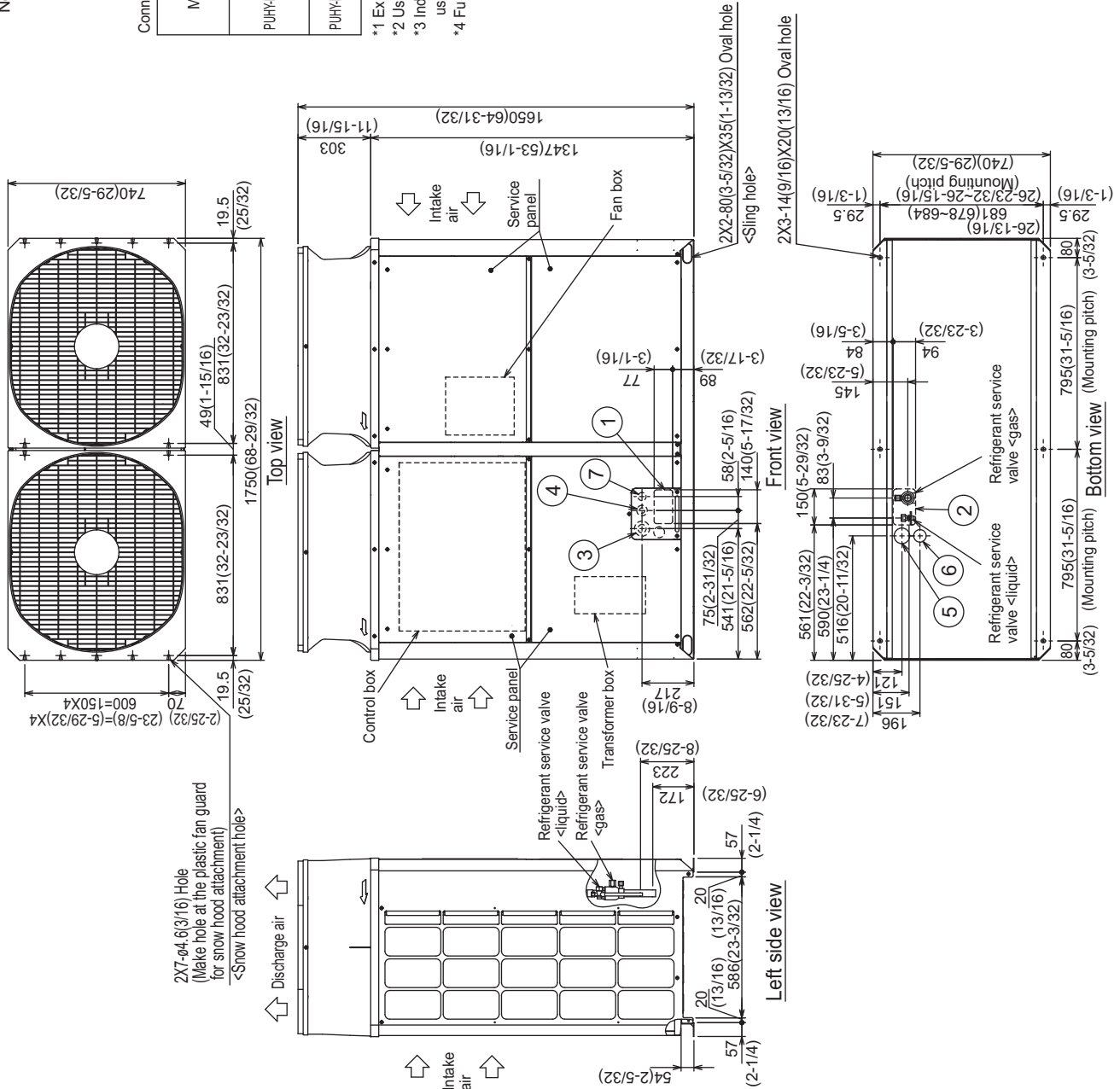
Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe		Service valve	
	Liquid	Gas	Liquid	Gas
PUHY-P120YKMU	ø9.52 Braze (3/8) *2 (ø12.7 Braze) (1/2) *1 *3 *4	ø28.58 Braze (1-1/8) *2	ø12.7 (1/2)	ø28.58 (1-1/8)
PUHY-P144YKMU	ø12.7 Braze (1/2) *1			

- *1 Expand the on-site piping and connect to the refrigerant service valve piping.
- *2 Use the pipe joint(field supply) and connect to the refrigerant service valve piping.
- *3 Indicates dimensions and connection specifications in the case the unit is used in combination with other outdoor units.
- *4 Furthest piping length (OU from IU) ≧ 40m(131ft)

Unit : mm(in.)

NO.	Usage	Specifications
①	For pipes Front through hole	140 x 77 Knockout hole (5-17/32) (3-1/16)
②	Bottom through hole	150 x 94 Knockout hole (5-29/32) (3-23/32)
③	Front through hole	ø62.7 or ø64.5 Knockout hole (2-15/32) (1-3/8)
④	Front through hole	ø43.7 or ø22.2 Knockout hole (1-3/4) (7/8)
⑤	Bottom through hole	ø65 Knockout hole (2-9/16)
⑥	Bottom through hole	ø52 Knockout hole (2-1/16)
⑦	For transmission cables Front through hole	ø34 Knockout hole (1-11/32)

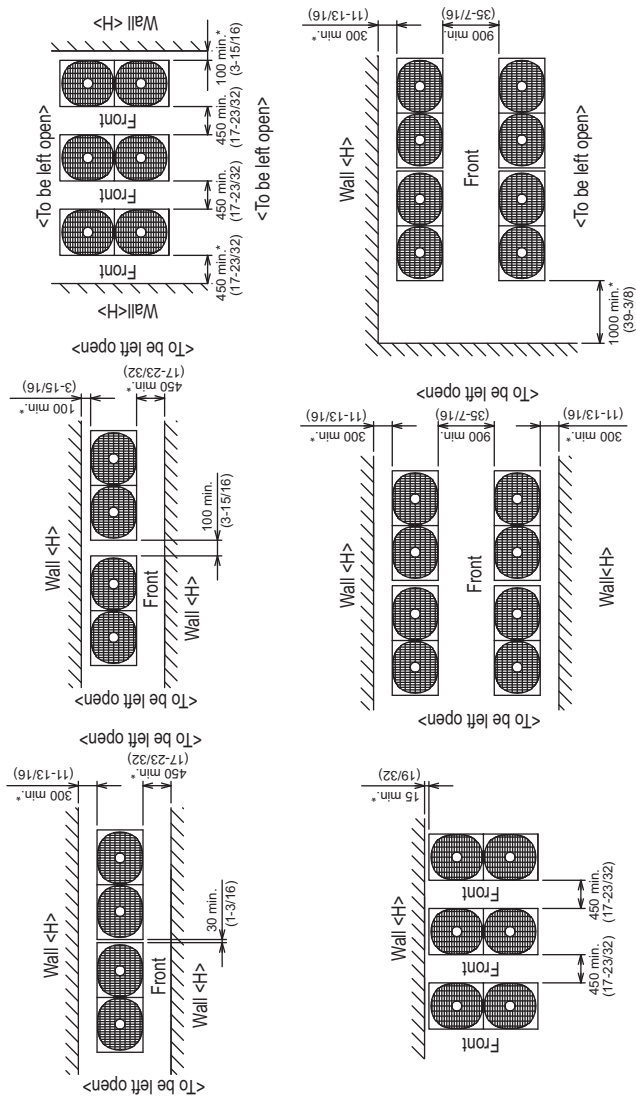


PUHY-P120,144YKMU-A(-BS)

Unit : mm(in.)

● In case of collective installation

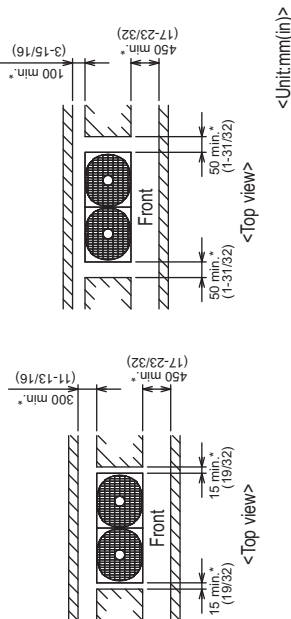
- ① When multiple units are installed adjacent to each other, secure enough space to allow for air circulation and walkway between groups of units as shown in the figures below.
- ② At least two sides must be left open.
- ③ As with the single installation, add the height that exceeds the height limit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



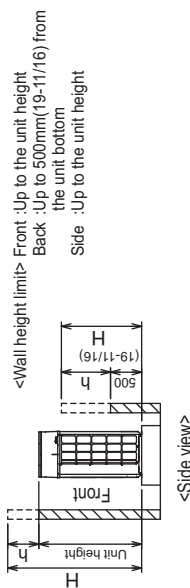
1. Required space around the unit

● 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(11-13/16) to the wall on the back of the unit



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



2. Foundation work

- ① Take into consideration the surface strength, water drainage route, piping route, and wiring route when preparing the installation site.
 - <Note that the drain water comes out of the unit during operation.>
- ② Build the foundation in such way that the corner of the installation leg is securely supported as shown in the right figure.(Fig.A)
 - 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(1-3/16).(Fig.A)
- ④ Use four fixing plates as shown in the right figure <field supply required> when using post-installed anchor bolts.(Fig.B)
- 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.

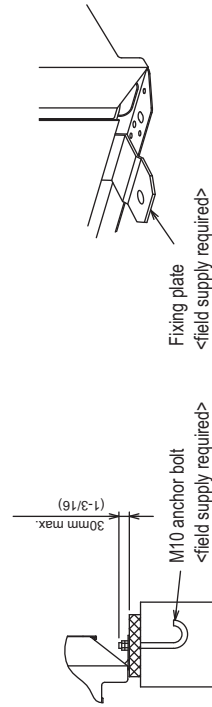
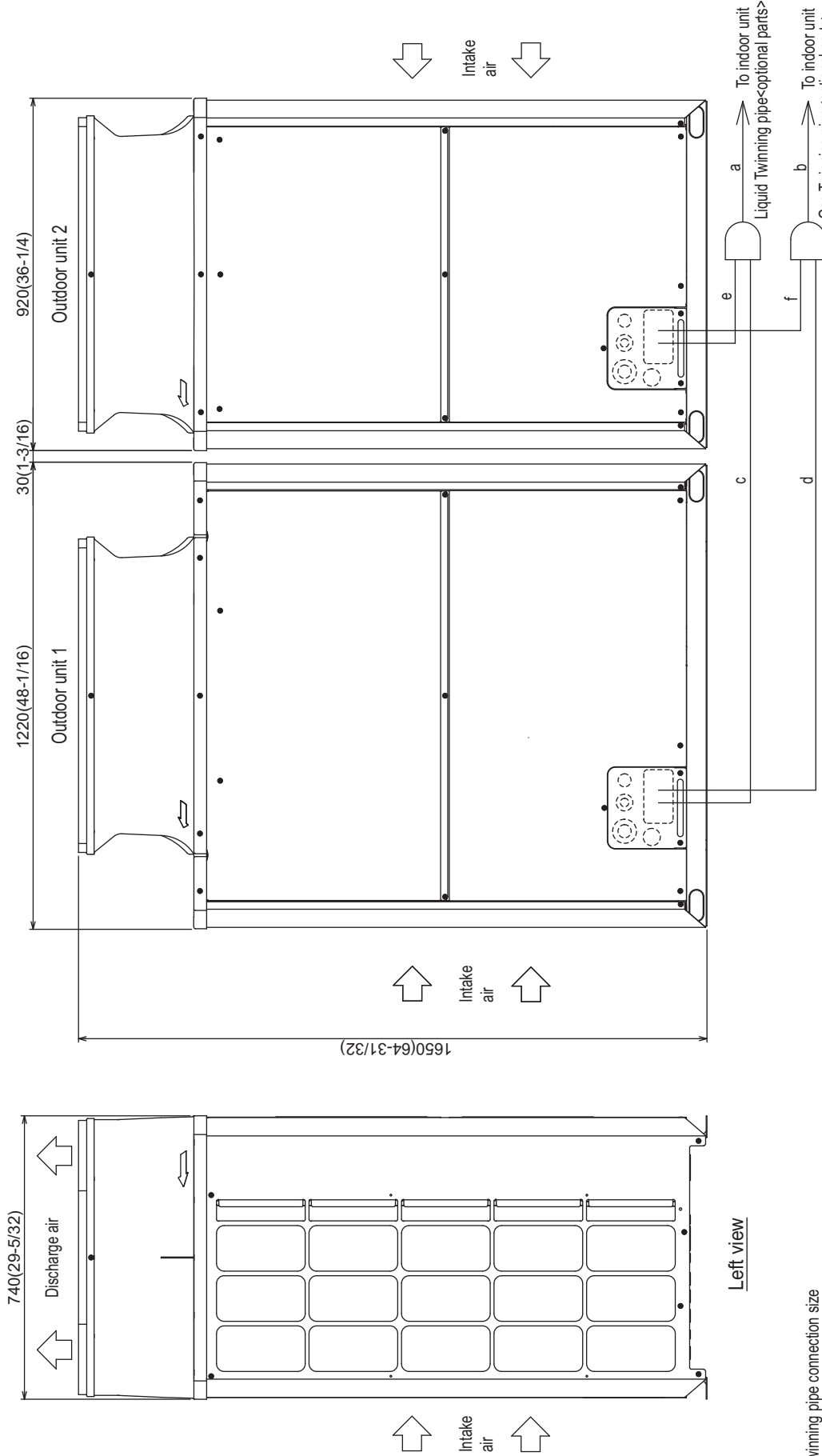


Fig.A

Fig.B

PUHY-P168YSKMU-A(-BS)

Unit : mm(in.)



Front view

Left view

Unit model	Liquid core d or f	Gas d or f
P72	ø9.52(3/8)	ø22.2(7/8)
P96	ø9.52(3/8)	ø22.2(7/8)

Twinning pipe connection size

Package unit name	PUHY-P168YSKMU-A(-BS)
Component unit name	Outdoor unit 1
Outdoor unit 2	PUHY-P96YKMU-A(-BS)
Outdoor Twinning Kit(optional parts)	CMY-Y100CBK3
Indoor unit~Twinning pipe	Liquid a
	Gas b
	ø15.88(5/8)
	ø28.58(1-1/8)

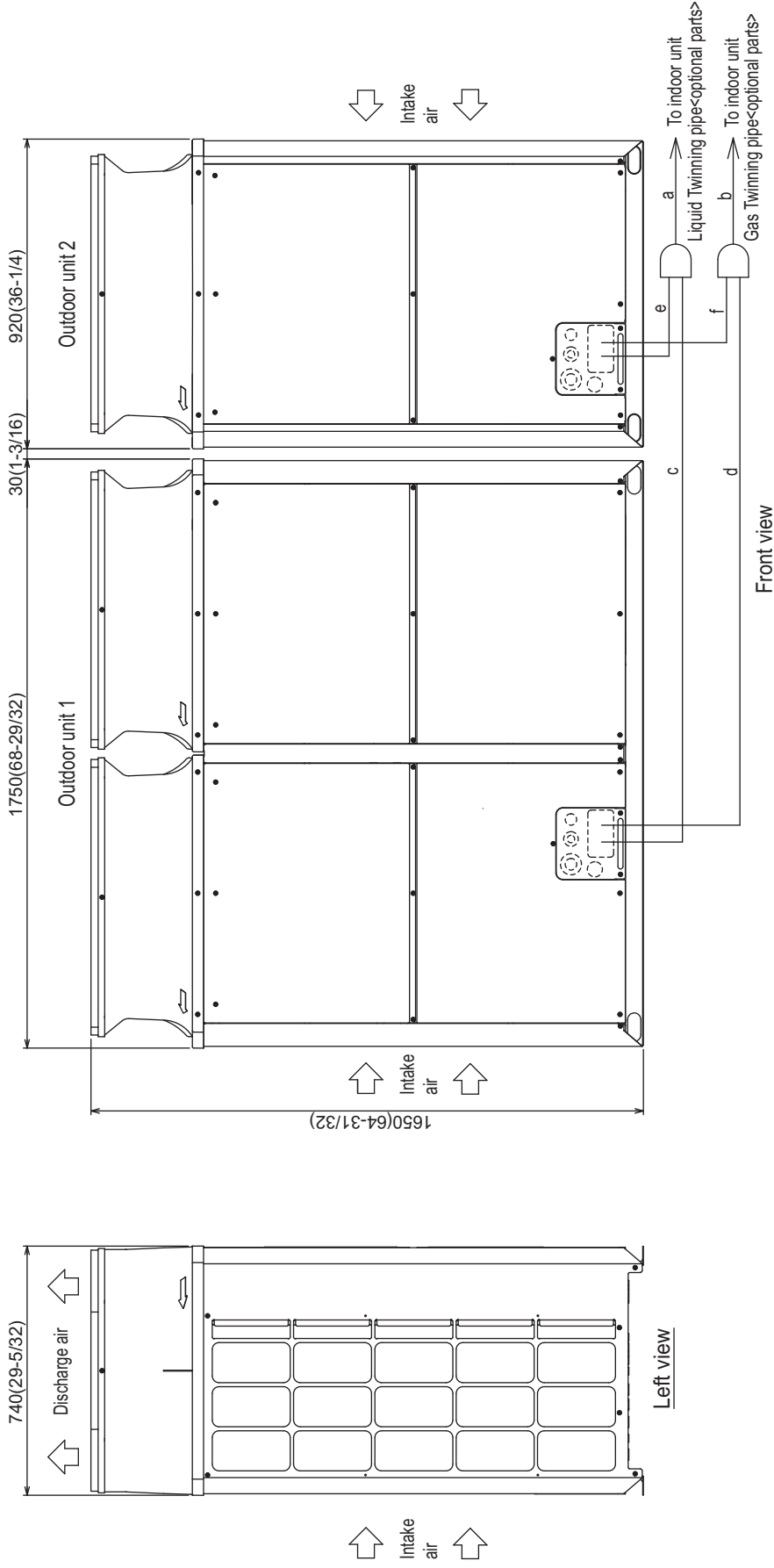
- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
 Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (sections "a" and "b" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

(X) A

PUHY-P192YSKMU-A(-BS)

Unit : mm(in.)

Y (K)



Front view

Left view

Twinning pipe connection size

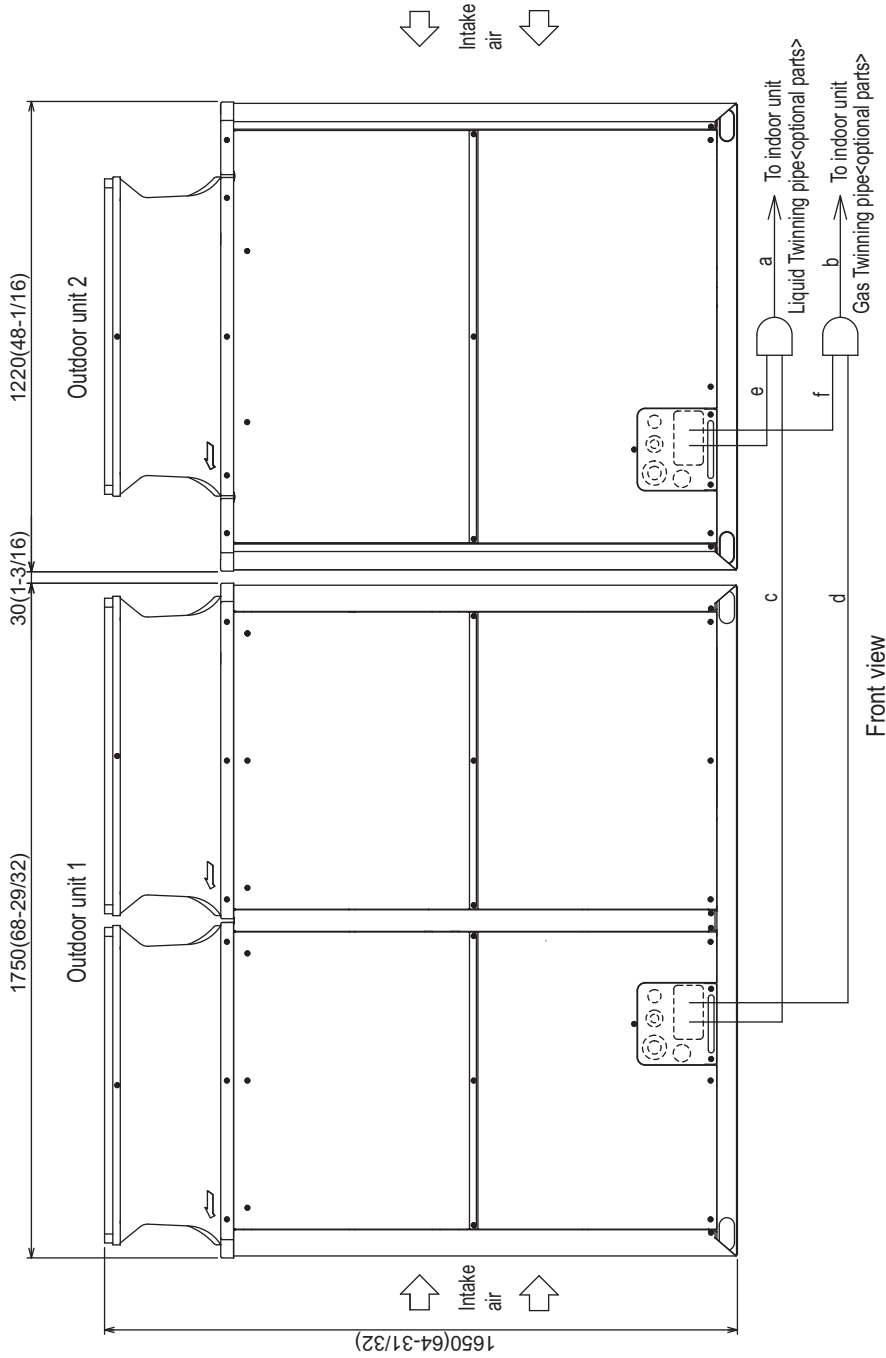
Package unit name	PUHY-P192YSKMU-A(-BS)	
Component unit name	Outdoor unit 1	PUHY-P120YKMU-A(-BS)
	Outdoor unit 2	PUHY-P72YKMU-A(-BS)
Outdoor Twinning Kit(optional parts)	CMY-Y100CBK3	
Indoor unit~Twinning pipe	Liquid	a ø15.88(5/8)
	Gas	b ø28.58(1-1/8)

Twinning pipe-Outdoor unit	Unit model	Liquid	Gas
	P72	c or e ø9.52(3/8)	d or f ø22.2(7/8)
P120		ø12.7(1/2)	ø28.58(1-1/8)

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
 Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (sections "a" and "b" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

PUHY-P216YSKMU-A(-BS)

Unit : mm(in.)



Front view

Left view

Twinning pipe connection size

Package unit name	PUHY-P216YSKMU-A(-BS)
Component unit name	Outdoor unit 1 Outdoor unit 2
Outdoor Twinning Kit(optional parts)	CMY-Y100CBK3
Indoor unit-Twinning pipe	Liquid a
	Gas b
	ø15.88(5/8) ø28.58(1-1/8)

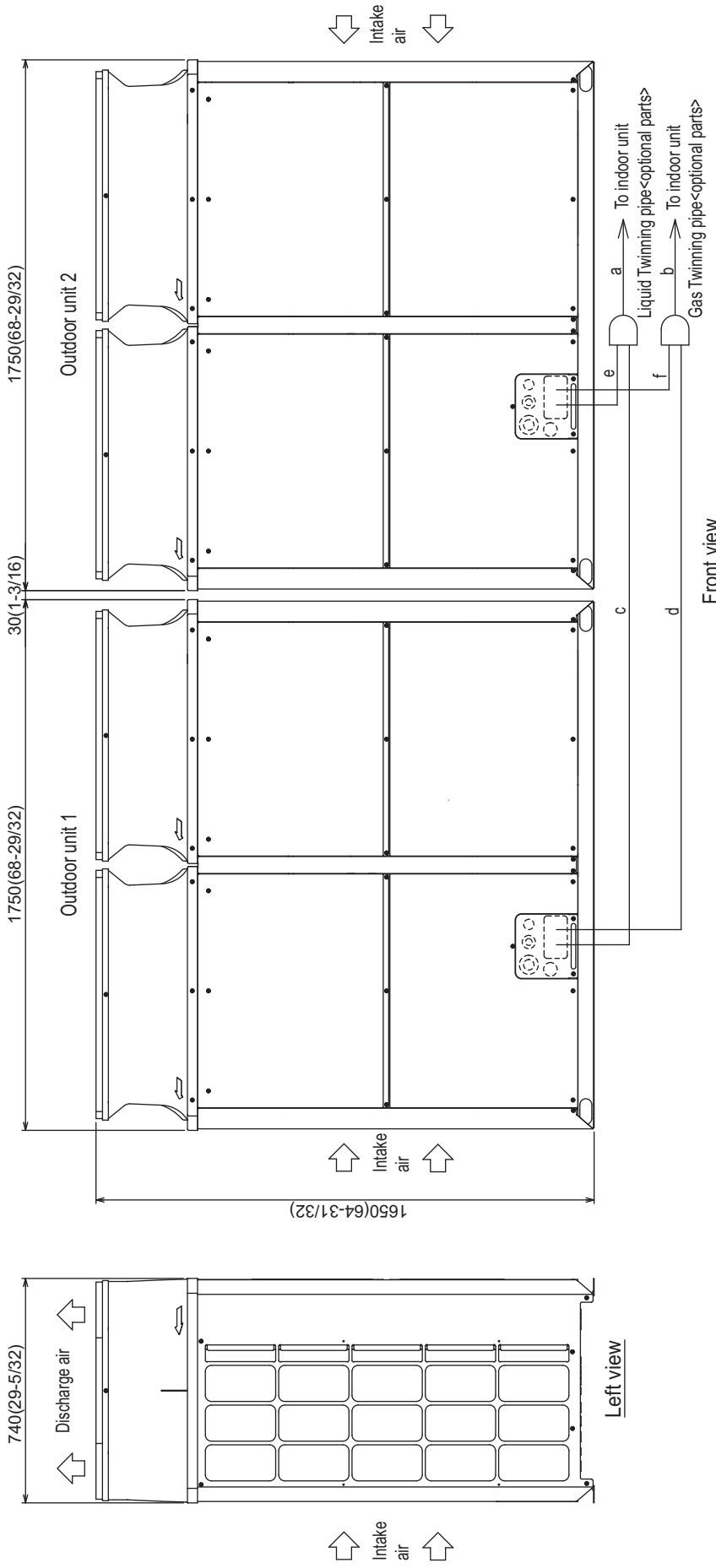
Twinning pipe-Outdoor unit	Unit model	Liquid c or e	Gas d or f
	P96	ø9.52(3/8)	ø22.2(7/8)
	P120	ø12.7(1/2)	ø28.58(1-1/8)

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane. Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (sections "a" and "b" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

Y (K)

PUHY-P240YSKMU-A(-BS)

Unit : mm(in.)



Front view

Left view

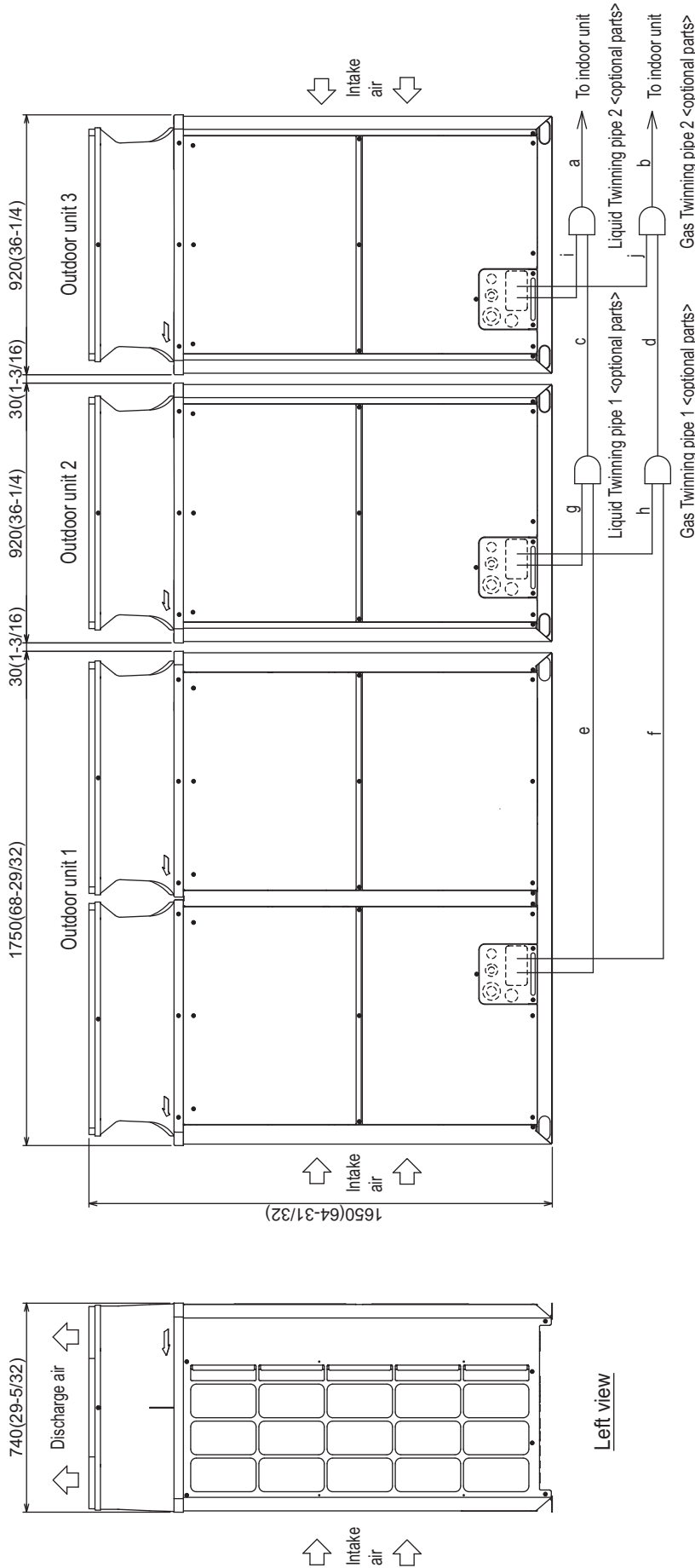
Twinning pipe connection size

Package unit name	PUHY-P240YSKMU-A(-BS)	
Component unit name	Outdoor unit 1	Outdoor unit 2
Outdoor Twinning Kit(optional parts)	C/W-Y100CBK3	
Indoor unit~Twinning pipe	Liquid	a
	Gas	b
Twinning pipe~Outdoor unit	Unit model	P120
	Liquid	c or e
	Gas	d or f
		ø12.7(1/2)
		ø28.58(1-1/8)

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
 Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (sections "a" and "b" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

PUHY-P264YSKMU-A(-BS)

Unit : mm(in.)



Front view

Left view

Twinning pipe connection size

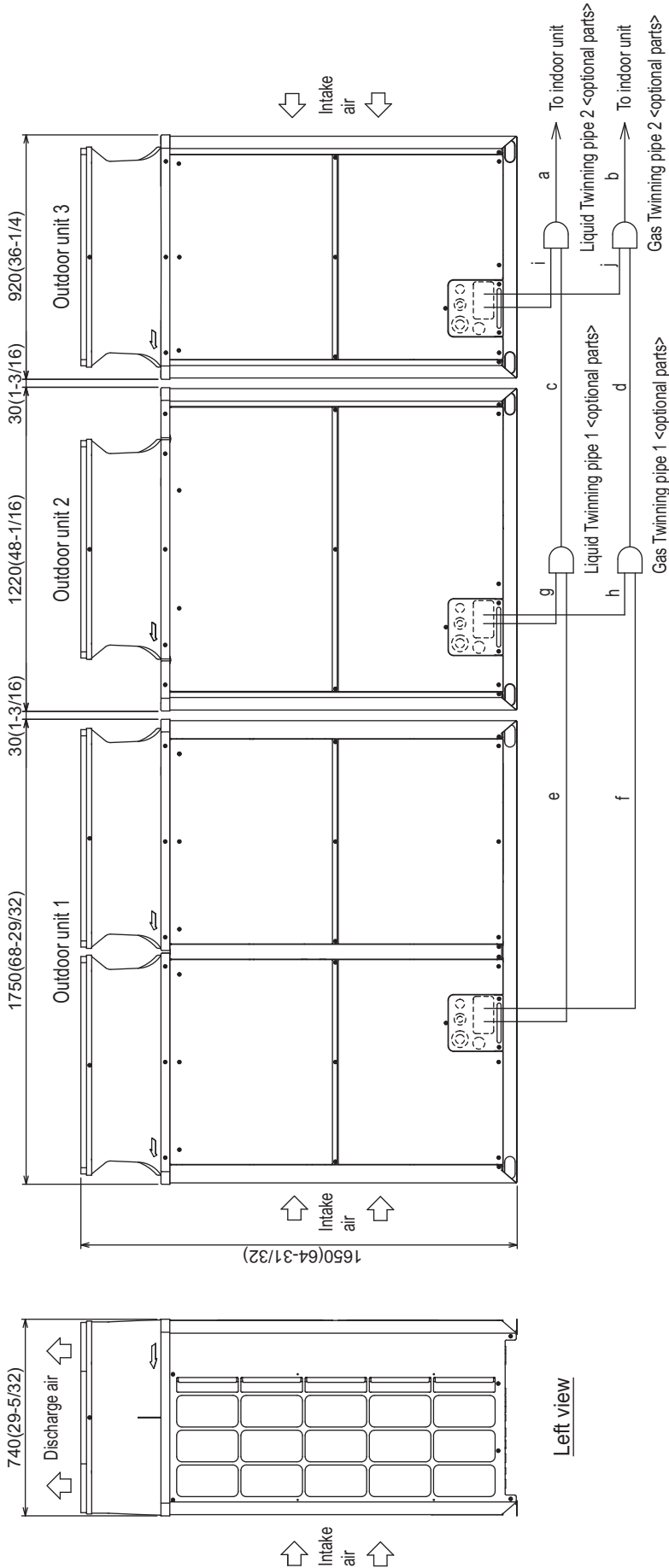
Package unit name	PUHY-P264YSKMU-A(-BS)			
Component unit name	Outdoor unit 1	Outdoor unit 2	Outdoor unit 3	Outdoor Twinning Kit (optional parts)
	PUHY-P20YKMU-A(-BS)	PUHY-P72YKMU-A(-BS)	PUHY-P72YKMU-A(-BS)	CMY-Y300CBK2
Indoor unit - Twinning pipe 2	Liquid	a	Gas	b
		ø19.05(3/4)		ø34.93(1-3/8)
Twinning pipe 1 - Twinning pipe 2	Liquid	c	Gas	d
		ø19.05(3/4)		ø34.93(1-3/8)

Unit model	Liquid	Gas
P72	ø19.05(3/8)	ø22.2(7/8)
P120	ø12.7(1/2)	ø28.58(1-1/8)

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be fitted more than 15 degrees from the horizontal plane.
 Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm (19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

PUHY-P288YSKMU-A(-BS)

Unit : mm(in.)



Front view

Left view

Twinning pipe connection size

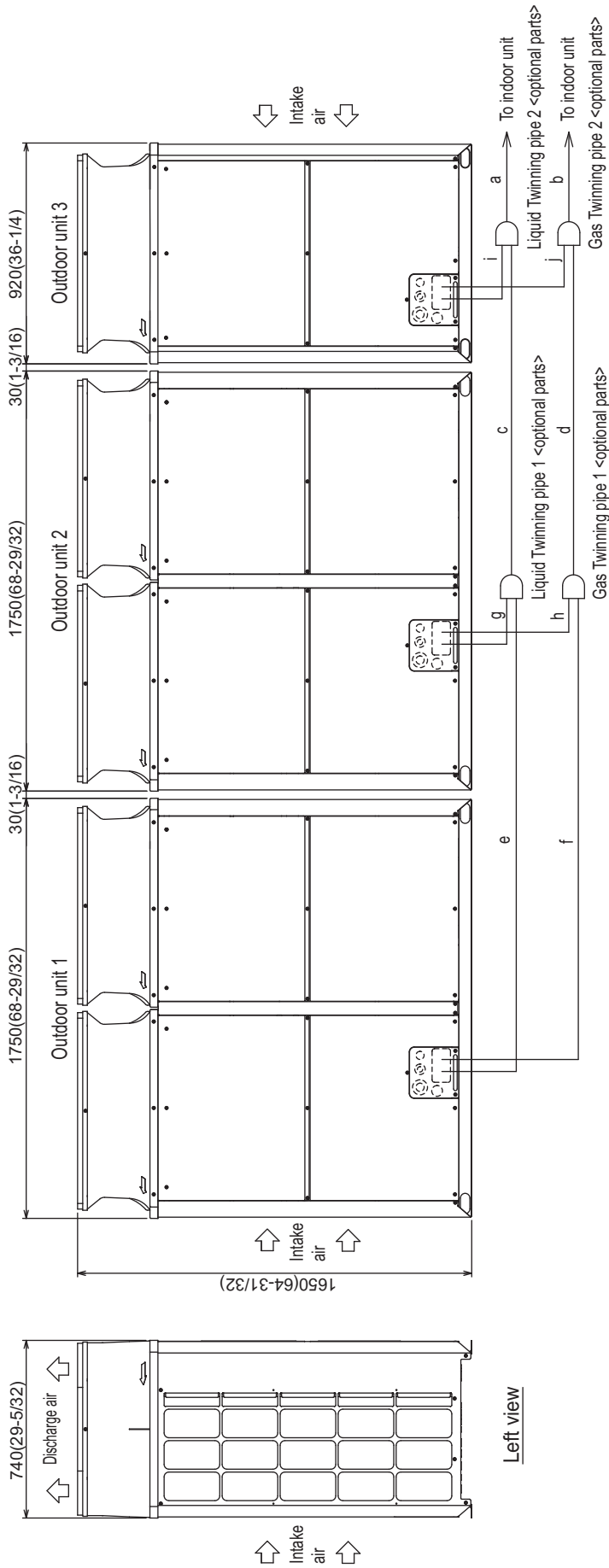
Package unit name	PUHY-P288YSKMU-A(-BS)
Outdoor unit 1	PUHY-P120YKMU-A(-BS)
Outdoor unit 2	PUHY-P96YKMU-A(-BS)
Outdoor unit 3	PUHY-P72YKMU-A(-BS)
Outdoor Twinning Kit(optional parts)	OMY-Y300CBK2
Indoor unit-Twinning pipe 2	Liquid a ø19.05(3/4)
	Gas b ø34.93(1-3/8)
Twinning pipe 1-Twinning pipe 2	Liquid c ø19.05(3/4)
	Gas d ø34.93(1-3/8)

Unit model	Liquid	Gas
P72	e or g or i ø9.52(3/8)	f or h or j ø22.2(7/8)
P96	ø9.52(3/8)	ø22.2(7/8)
P120	ø12.7(1/2)	ø28.58(1-1/8)

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
 Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

PUHY-P312YSKMU-A(-BS)

Unit : mm(in.)



Front view

Left view

Twinning pipe connection size

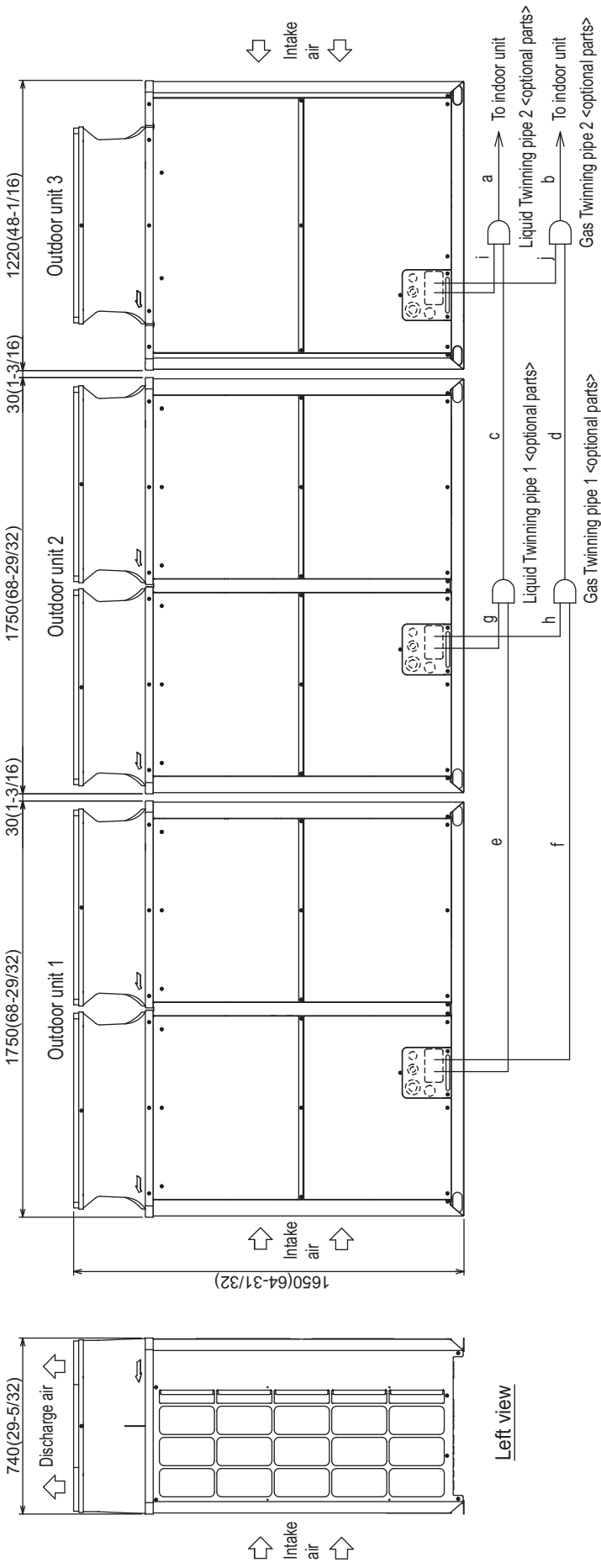
Package unit name	PUHY-P312YSKMU-A(-BS)		
Outdoor unit 1	PUHY-P20YKMU-A(-BS)		
Outdoor unit 2	PUHY-P20YKMU-A(-BS)		
Outdoor unit 3	PUHY-P20YKMU-A(-BS)		
Outdoor Twinning Kit(optional parts)	CMY-Y300CBK2		
Indoor unit- Twinning pipe 2	Liquid	a	ø19.05(3/4)
	Gas	b	ø34.93(1-3/8)
Twinning pipe- 1~Twinning pipe 2	Liquid	c	ø19.05(3/4)
	Gas	d	ø34.93(1-3/8)

Twinning pipe-Outdoor unit	Unit model	Liquid	Gas
		e or g or i	f or h or j
	P72	ø9.52(3/8)	ø22.2(7/8)
	P120	ø12.7(1/2)	ø28.58(1-1/8)

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
 Be sure to see the Installation Manual for details of Twinning pipe installation.
 3. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
 4. Only use the Twinning pipe by Mitsubishi (optional parts).

PUHY-P336YSKMU-A(-BS)

Unit : mm(in.)



Front view

Left view

Twinning pipe connection size

Package unit name	PUHY-P336YSKMU-A(-BS)
Component unit name	Outdoor unit 1 PUHY-P120YKMU-A(-BS)
	Outdoor unit 2 PUHY-P120YKMU-A(-BS)
	Outdoor unit 3 PUHY-P98YKMU-A(-BS)
Outdoor Twinning Kit(optional parts)	CMY-Y300CBK2
Indoor unit-Twinning pipe 2	Liquid a ϕ 19.05(3/4)
	Gas b ϕ 41.28(1-5/8)
Twinning pipe 1-Twinning pipe 2	Liquid c ϕ 19.05(3/4)
	Gas d ϕ 34.93(1-3/8)

Unit model	P96	Liquid e or g or i	Gas for or j
Twinning pipe-Outdoor unit	P120	ϕ 9.52(3/8)	ϕ 22.2(7/8)
		ϕ 12.7(1/2)	ϕ 28.58(1-1/8)

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

2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.

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

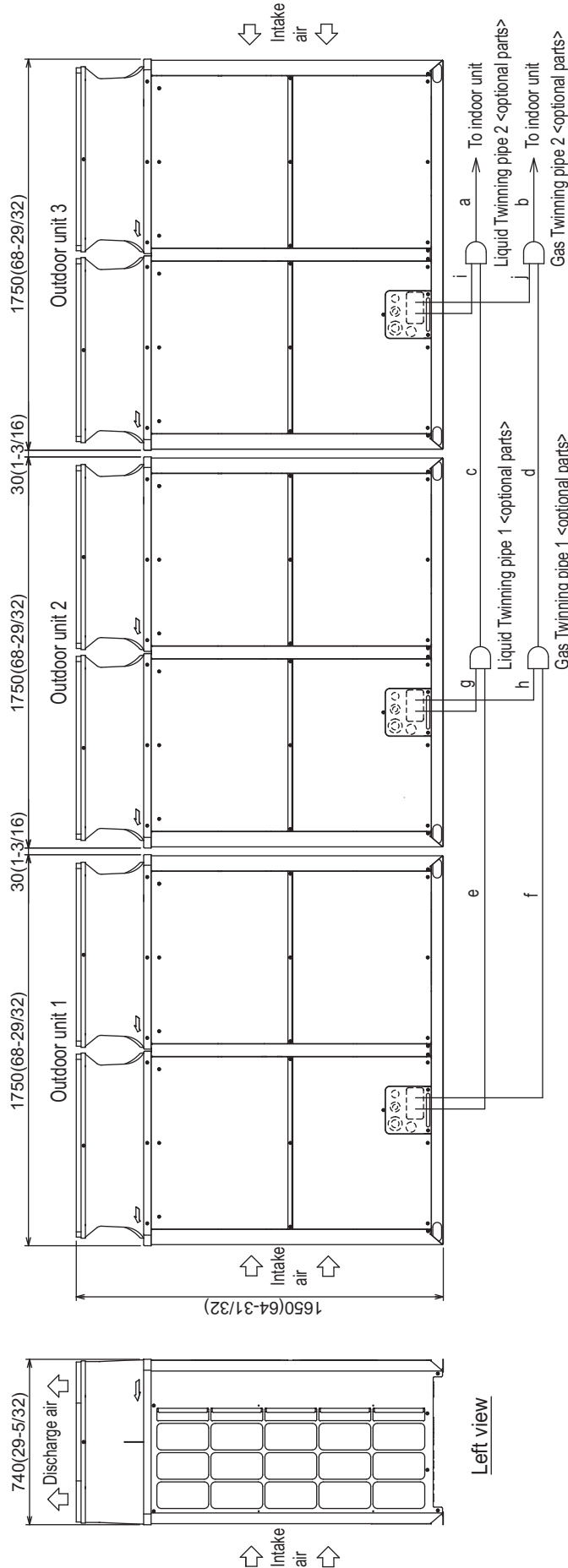
3. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm(19-11/16) of straight section

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

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

PUHY-P360YSKMU-A(-BS)

Unit : mm(in.)



Front view

Left view

Twinning pipe connection size

Package unit name	PUHY-P360YSKMU-A(-BS)
Outdoor unit 1	PUHY-P120YKMU-A(-BS)
Outdoor unit 2	PUHY-P120YKMU-A(-BS)
Outdoor unit 3	PUHY-P120YKMU-A(-BS)
Outdoor Twinning Kit (optional parts)	CMY-Y300CBK2
Indoor unit-Twinning pipe 2	Liquid a Gas b
Twinning pipe 1-Twinning pipe 2	Liquid c Gas d

Unit model	P120
Twinning pipe-Outdoor unit	Liquid e or g or i Gas f or h or j
	ø12.7(1/2) ø28.58(1-1/8)

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

2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.

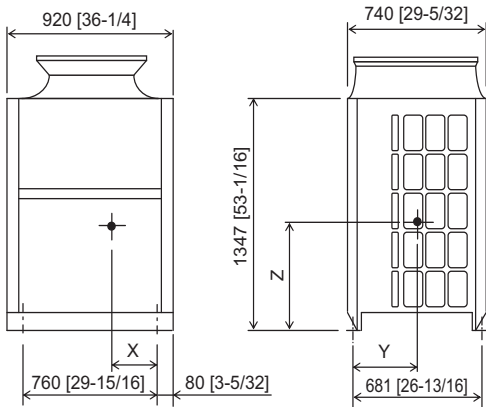
3. Be sure to see the Installation Manual for details of Twinning pipe installation.

4. The pipe section before the Twinning pipe (sections "a", "b", "c" and "d" in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).

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

Y (K)

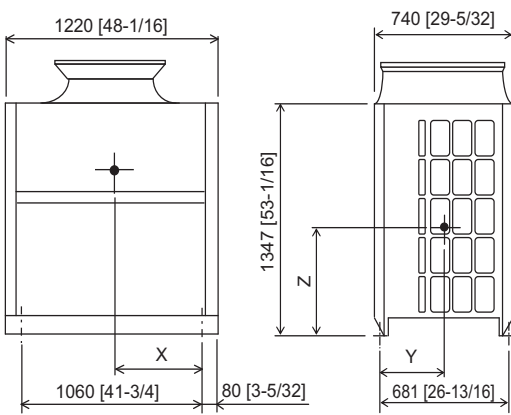
PUHY-P72TKMU-A (-BS)
PUHY-P72YKMU-A (-BS)



Unit : mm[in.]

Model	X	Y	Z
PUHY-P72TKMU-A(-BS)	322[12-11/16]	304[11-31/32]	629[24-25/32]
PUHY-P72YKMU-A(-BS)	327[12-7/8]	293[11-9/16]	644[25-3/8]

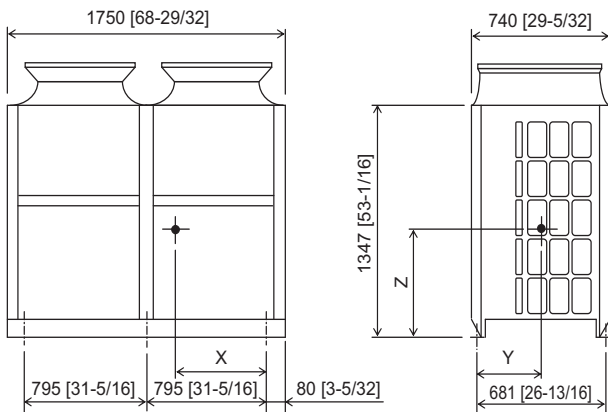
PUHY-P96TKMU-A (-BS)
PUHY-P96YKMU-A (-BS)



Unit : mm[in.]

Model	X	Y	Z
PUHY-P96TKMU-A(-BS)	444[17-1/2]	309[12-3/16]	593[23-3/8]
PUHY-P96YKMU-A(-BS)	432[17-1/32]	299[11-25/32]	608[23-15/16]

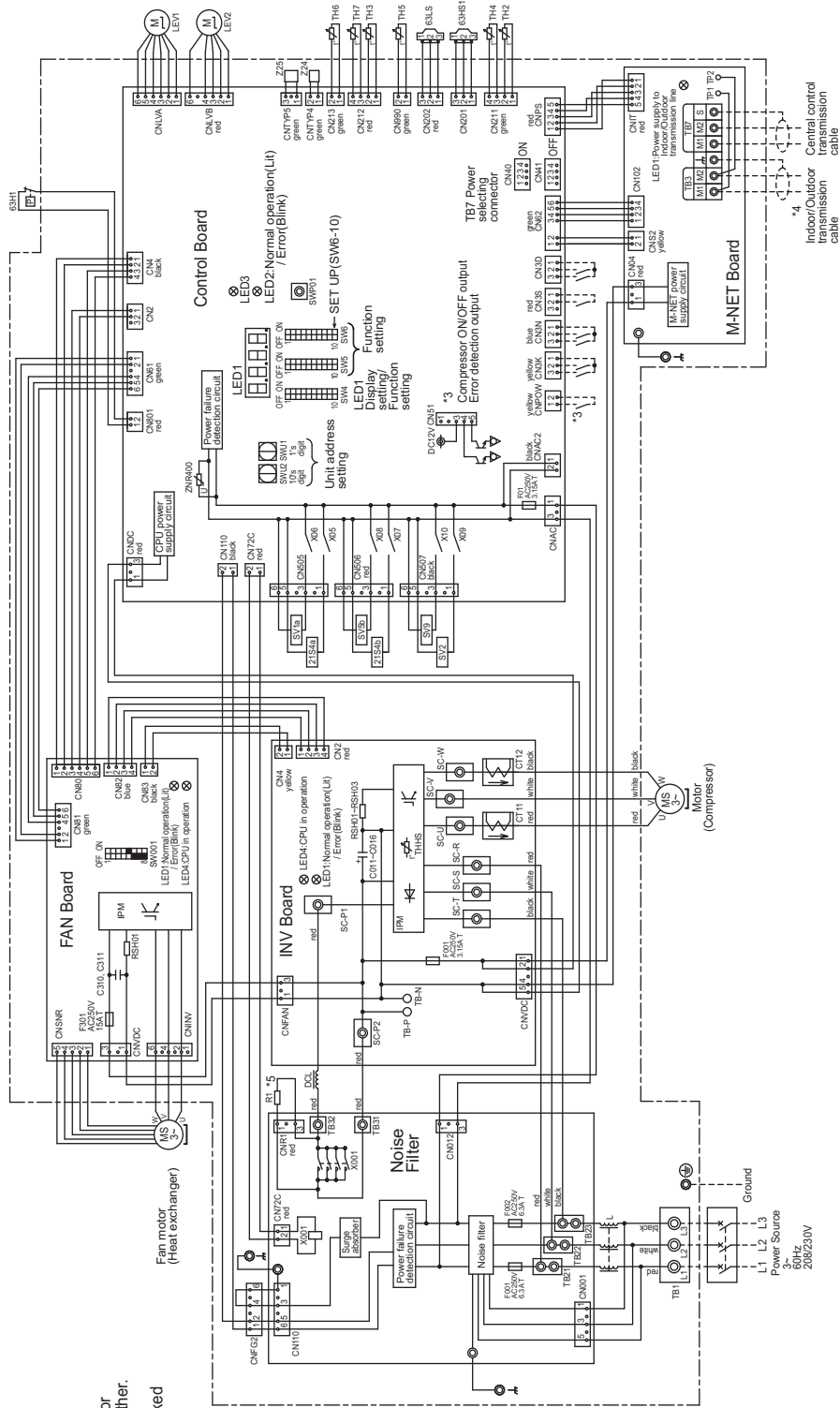
PUHY-P120, 144TKMU-A (-BS)
PUHY-P120, 144YKMU-A (-BS)



Unit : mm[in.]

Model	X	Y	Z
PUHY-P120TKMU-A(-BS)	688[27-3/32]	326[12-27/32]	652[25-11/16]
PUHY-P144TKMU-A(-BS)	688[27-3/32]	326[12-27/32]	652[25-11/16]
PUHY-P120YKMU-A(-BS)	722[28-7/16]	316[12-15/32]	638[25-1/8]
PUHY-P144YKMU-A(-BS)	722[28-7/16]	316[12-15/32]	638[25-1/8]

PUHY-P72TKMU-A-(BS)



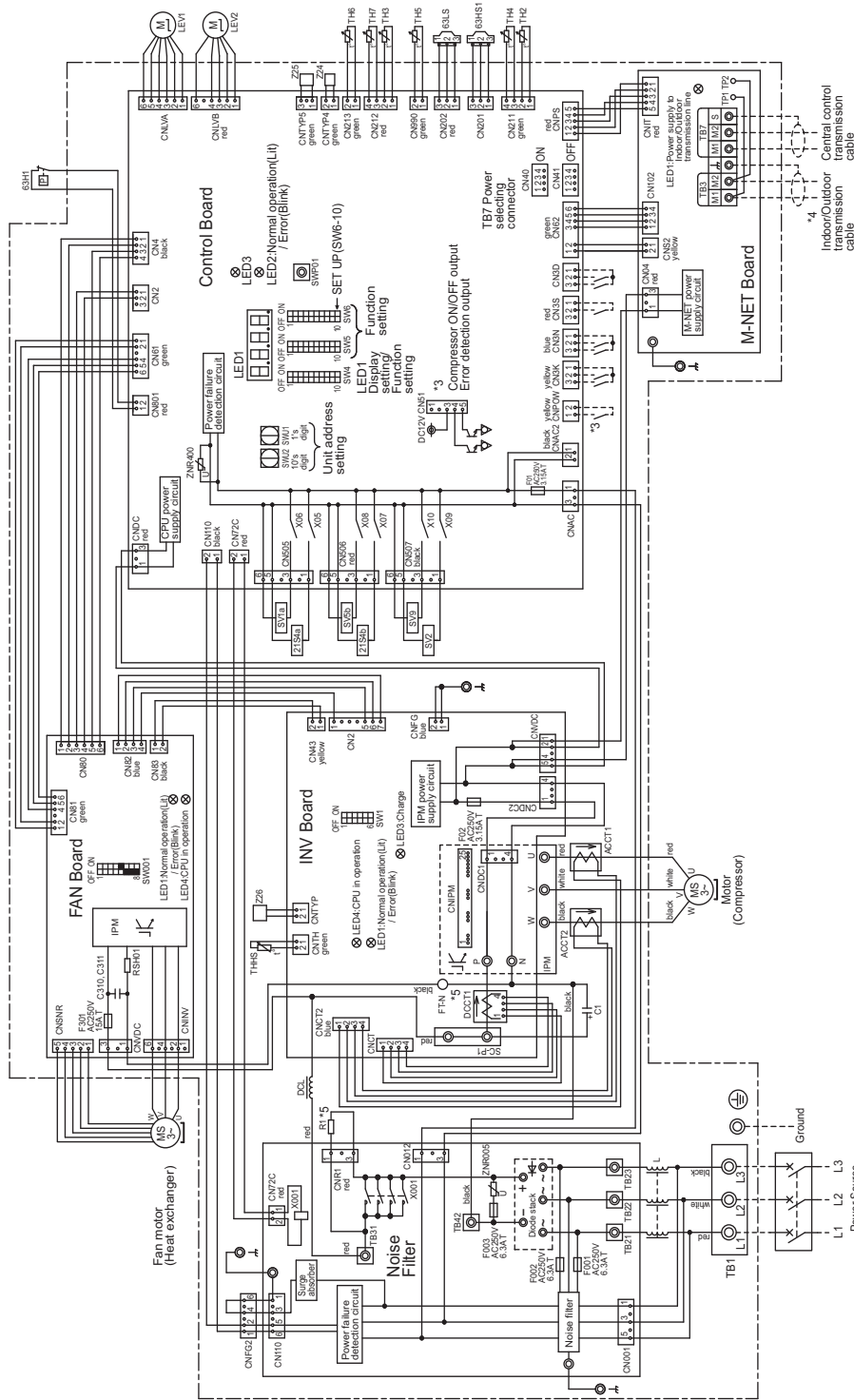
- *1 Single-dotted lines indicate wiring not supplied with the unit.
- *2 Dot-dash lines indicate the control box boundaries.
- *3 Refer to the Data book for connecting input/output signal connectors.
- *4 Daisy-chain terminals (TB3) on the outdoor units in the same refrigerant system together.
- *5 Faston terminals have a locking function. Make sure the terminals are securely locked in place after insertion. Press the tab on the terminals to removed high-voltage parts.
- *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 TB-P and TB-N on INV Board has dropped to DC20V or less.

<Symbol explanation>

Symbol	Explanation	Symbol	Explanation
21S4a	4-way valve	SV2	Solenoid valve
21S4b	Cooling/heating switching	SV5	For opening/closing the discharge suction bypass
63H1	Heat exchanger capacity control	SV6	Outdoor unit heat exchanger ready control
63HS1	High pressure protection for the discharge compressor	SV9	For opening/closing the bypass circuit
63LS	Pressure sensor	TB1	Power supply
63LS	Low pressure	TB3	Indoor/Outdoor transmission
X001	Magnetic relay (inverter main circuit)	TB7	Central control transmission cable
C011-C016	Capacitor (inverter main circuit)	TH2	Subcool bypass outlet temperature
CT11, 12	Current sensor(AC)	TH3	Pipe temperature
DGL	Choke coil (for high frequency noise reduction)	TH4	Discharge pipe temperature
LEV1	HIC bypass. Controls refrigerant flow in HIC circuit	TH6	ACG inlet pipe temperature
LEV2	Pressure control, Refrigerant flow rate control	TH7	Subcool liquid refrigerant temperature
BE1	Linear expansion valve	TH8	OA temperature
RS401(FAN Board)	Resistor	THHS	IPM temperature
RS401-RSH03	For inrush current prevention	Z24, 25	Function setting connector
RS401-RSH03	For current detection		
INV Board	For opening/closing the bypass circuit under the O/S		
SV1a	Solenoid valve		

(X) A

PUHY-P96TKMU-A(-BS)



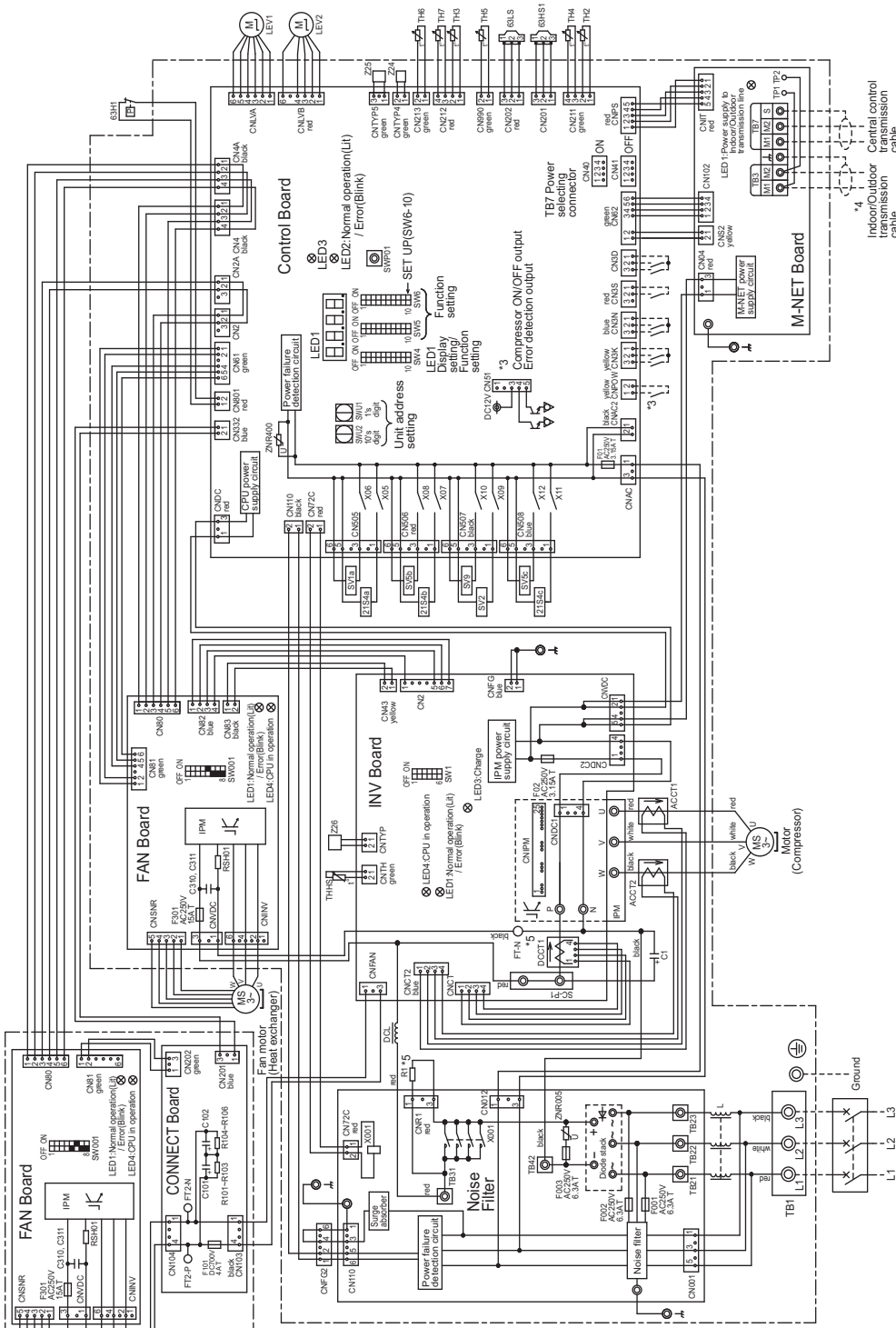
<Symbol explanation>

Symbol	Explanation
4-way valve	
21.5A4	Cooling/heating switching
21.5A4b	Heat exchanger capacity control
63H1	High pressure protection for the outdoor unit
63HS1	Discharge pressure
93S	Pressure
93S	Magnetic relay (in pre-main circuit)ZC
ACCT1, 2	Current sensor(AC)
C1	Capacitor (inverter main circuit)
DCCT1	Current sensor(DC)
DCL	DC reactor
L	Choke coil (for high frequency noise reduction)
LEV1	HIC bypass, Controls refrigerant expansion
LEV2	Pressure control, Refrigerant flow rate control
R1	Resistor
R3H01	For inrush current prevention
SV1a	For current detection prevention
SV1a	Solenoid valve
SV2	Solenoid valve
SV5b	For opening/closing the discharge suction bypass capacity control
SV9	For opening/closing the bypass
TB1	Terminal block
TB3	Indoor/outdoor transmission cable
TB7	Central control transmission cable
TH2	Subcool bypass outlet temperature
TH3	Pipe temperature
TH4	Discharge pipe temperature
TH5	ACC inlet pipe temperature
TH6	Subcooled liquid refrigerant temperature
TH7	PA temperature
TH8	PA temperature
Z24, 25, 26	Function setting connector

- *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 at both ends of the main capacitor (C1) has dropped to DC20V or less.

Y (K)

PUHY-P120,144TKMU-A(-BS)



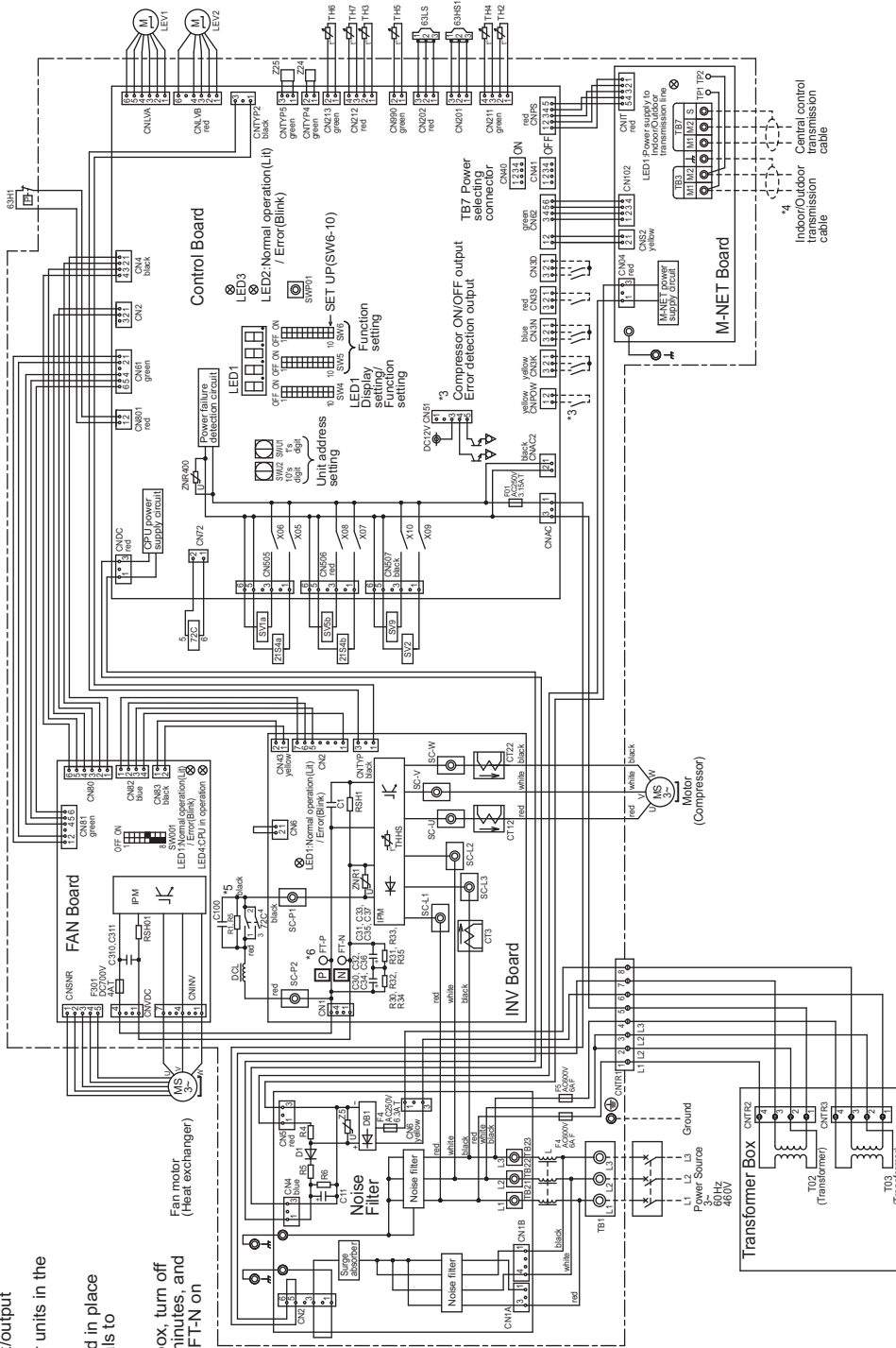
- *1. Single-dotted lines indicate wiring not supplied with the unit.
- *2. Dot-dash lines indicate the control box boundaries.
- *3. Refer to the Data book for connecting input/output signal connectors.
- *4. Daisy-chain terminals (TB3) on the outdoor units in the same refrigerant system together.
- *5. Fraston 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 at both ends of the main capacitor (C1) has dropped to DC20V or less.

<Symbol explanation>

Symbol	Explanation
21S4a	4-way valve
21S4b, c	Cooling/Heating switching
69H1	Heat exchanger capacity control
63LS1	Pressure
63LS	High pressure protection for the discharge pressure
X001	Low pressure
ACC.T1, 2	Magnetic relay (inverter main circuit)/ZC
C1	Current sensor(AC)
DCC.T1	Capacitor (inverter main circuit)
DCL	DC reactor
L	Choke coil (for high frequency noise reduction)
LEV1	H/C bypass, Controls refrigerant pressure control
LEV2	Pressure control, Refrigerant flow rate control
R1	Resistor
RSH01	For inrush current prevention
SV1a	Foil current detection
SV2	For opening/closing the bypass circuit under the O/S
SV5b, c	For opening/closing the discharge suction bypass
SV9	Outdoor unit heat exchanger capacity control
TB1	For opening/closing the bypass circuit
TB3	Power supply
TB7	Indoor/Outdoor transmission cable block
TH2	Central control transmission cable
TH3	Subcool bypass outlet temperature
TH4	Pipe temperature
TH5	Discharge pipe temperature
TH6	ACC inlet pipe temperature
TH7	Suctioned liquid refrigerant temperature
TH8	OA temperature
Z24, 25, 26	IPM temperature
Z24, 25, 26	F-unction setting connector

(X) A

PUHY-P72,96YKMU-A(-BS)



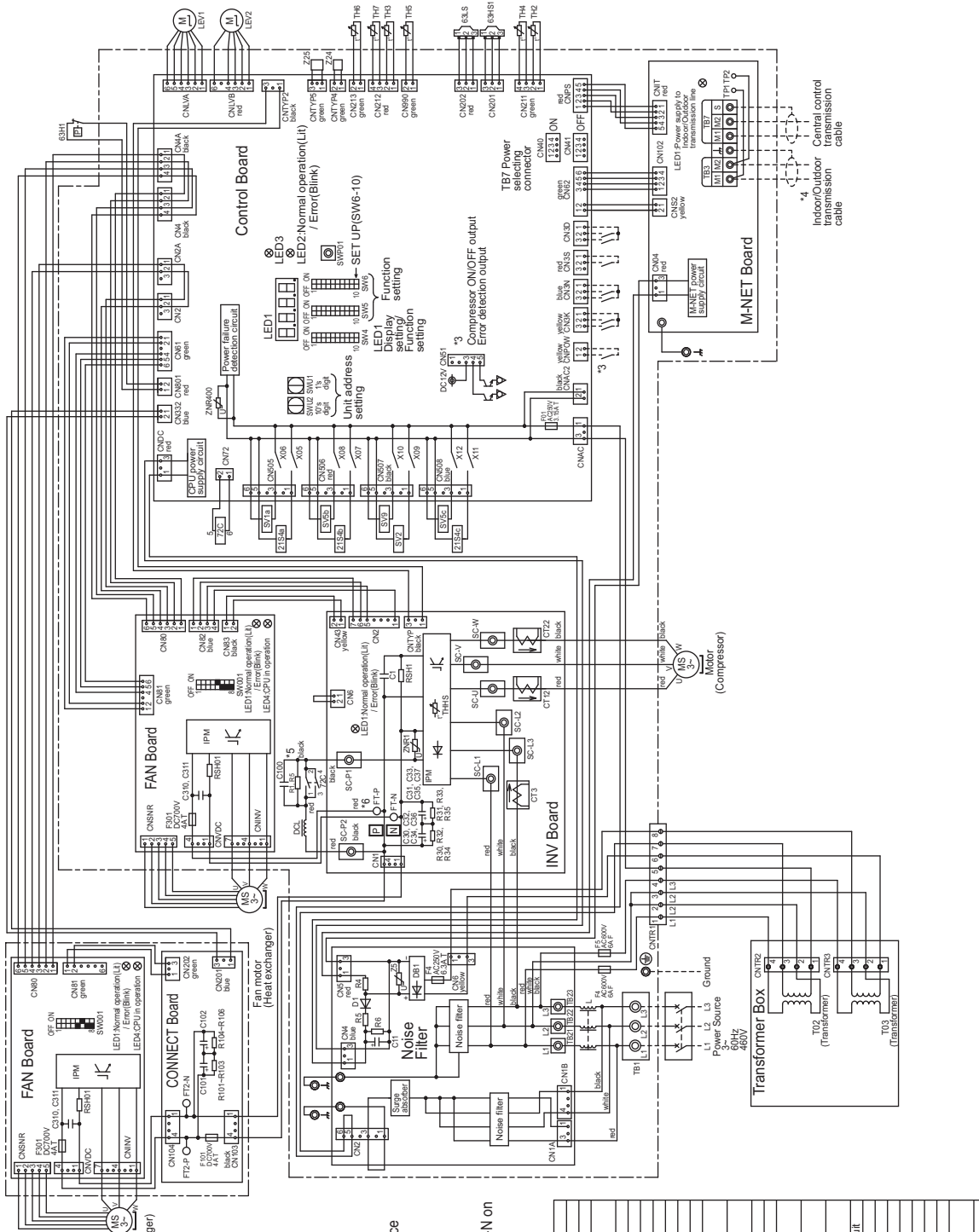
- *1 Single-dotted lines indicate wiring not supplied with the unit.
- *2 Dot-dash lines indicate the control box boundaries.
- *3 Refer to the Data book for connecting input/output signal connectors.
- *4 Daisy-chain terminals (TB3) on the outdoor units in the same refrigerant system together.
- *5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

<Symbol explanation>

Symbol	Explanation
4-way valve	Cooling/heating switching
21-54a	Heat exchanger capacity control
21-54b	High pressure protection for the switch
63H1	Pressure sensor
63LS	Low pressure sensor
72C	Magnetic relay (inverter main circuit)
C30-C37	Capacitor (inverter main circuit)
CT12, 22, 31	Current sensor(AC)
DCL	DC reactor
L	Choke coil (for high frequency noise reduction)
LEV1	Linear expansion valve
LEV2	HIC bypass. Controls refrigerant flow in HIC circuit
B1.5	Pressure control, Refrigerant flow valve
RSHT, RSH	For current detection
SV1a	For opening/closing the bypass circuit under the O/S
SV2	For opening/closing the discharge suction bypass
SV5b	Outdoor unit heat exchanger capacity control
SV9	For opening/closing the bypass circuit
TB1	Power supply terminal block
TB3	Indoor/outdoor transmission cable
TB7	Central control transmission cable
TH2	Subcool bypass outlet temperature
TH3	Pipe temperature
TH4	Discharge pipe temperature
TH5	ACC inlet pipe temperature
TH6	Subcooled liquid refrigerant temperature
TH7	Oil temperature
TH8	Oil temperature
Z24, Z5	Function setting connector

Y (K)

PUHY-P120,144YKMU-A(-BS)



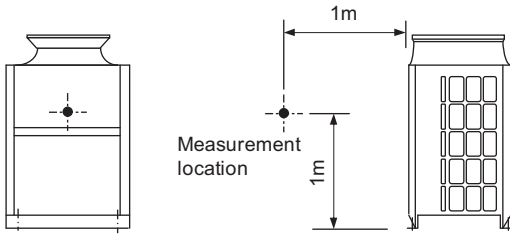
- *1. Single-dotted lines indicate wiring not supplied with the unit.
- *2. Dot-dash lines indicate the control box boundaries.
- *3. Refer to the Data book for connecting input/output signal connectors.
- *4. Daisy-chain terminals (TB3) on the outdoor units in the same refrigerant system together.
- *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>

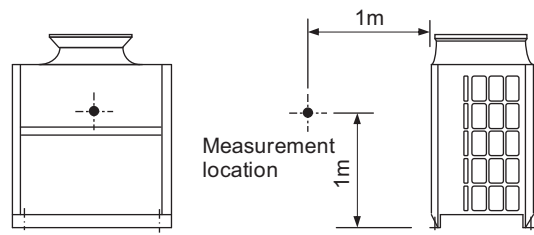
Symbol	Explanation
Z1S4a	Cooling/Heating switching
Z1S4b, c	Heat exchanger capacity control
63H11	High pressure protection for the outdoor unit
63HS1	Pressure switch
63LS1	Pressure sensor
72C	Low pressure
C30-C37	Magnetic relay (inverter main circuit)
C112, Z2, 3	Capacitor (inverter main circuit)
D30L	Current sensor(CS)
L	Choke coil (for high frequency noise reduction)
LEV1	Linear expansion valve
LEV2	HIC bypass. Controls refrigerant flow in HIC circuit
RV1, 5	Pressure control, Refrigerant flow rate control
RS101, RSH1	Resistor
SV1 a	Solenoid valve
SV2	For opening/closing the bypass circuit under the OIS
SV6b, c	For opening/closing the discharge capacity control
SV9	Outdoor unit heat exchanger
TB1	Terminal block
TB3	Power supply
TB7	Indoor/Outdoor transmission cable
TH2	Central control transmission cable
TH3	Subcool bypass outlet temperature
TH4	Pipe temperature
TH5	Discharge pipe temperature
TH6	OC line pipe temperature
TH7	Subcool bypass refrigerant temperature
TH8	OA temperature
TH9	IPM temperature
Z24, 25	Function setting connector

Y (K)

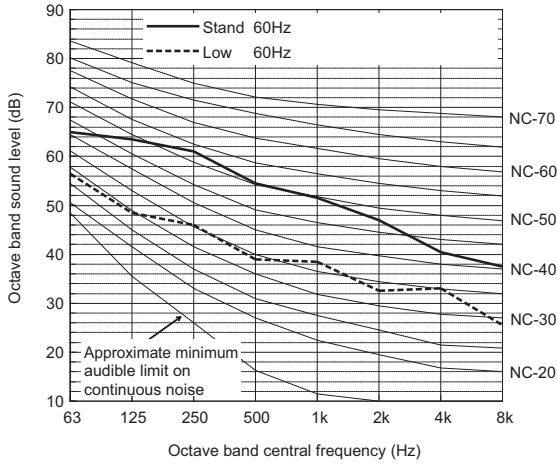
Measurement condition
PUHY-P72TKMU/YKMU



Measurement condition
PUHY-P96TKMU/YKMU



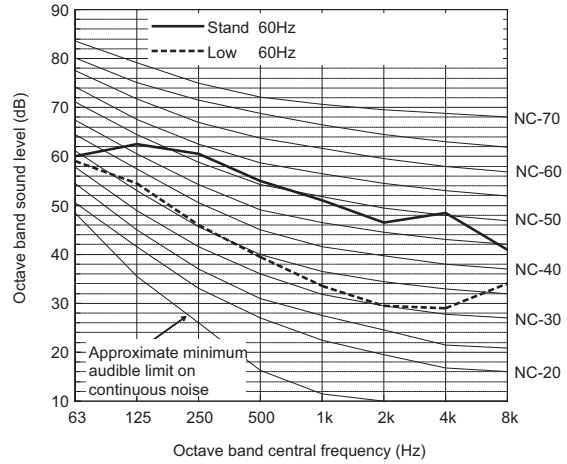
Sound level of PUHY-P72T/YKMU-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	65.0	63.5	61.0	54.5	51.5	47.0	40.5	37.5	58.0
Low noise mode	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.

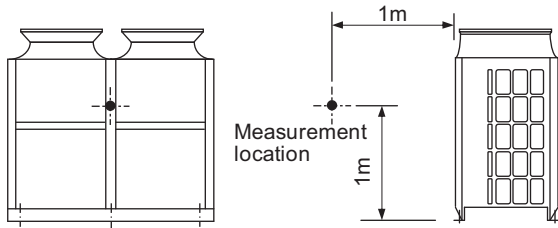
Sound level of PUHY-P96T/YKMU-A(-BS)



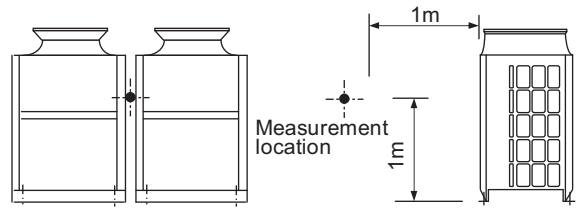
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	60.0	62.5	60.5	55.0	51.0	46.5	48.5	41.0	58.0
Low noise mode	60Hz	59.0	54.5	46.0	39.5	33.5	29.5	29.0	34.0	44.0

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

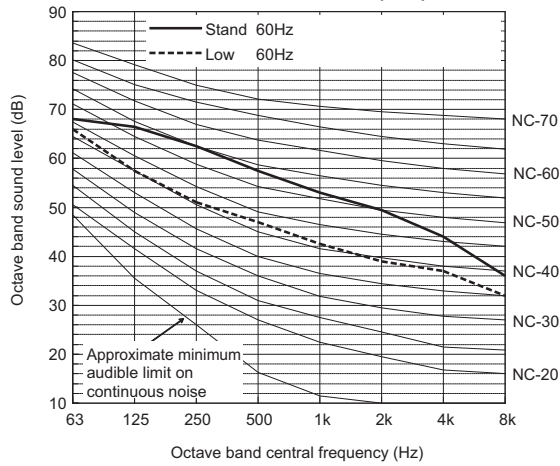
Measurement condition
PUHY-P120,144TKMU/YKMU



Measurement condition
PUHY-P144YSKMU



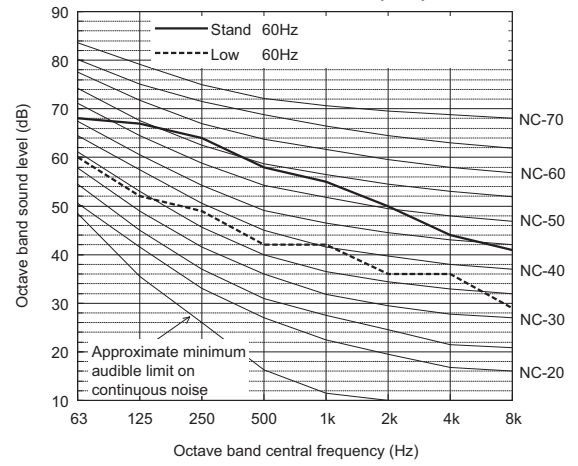
Sound level of PUHY-P120T/YKMU-A(-BS)



	60Hz	63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	68.0	66.5	62.5	57.5	53.0	49.5	44.0	36.0	60.0
Low noise mode	60Hz	66.0	67.5	61.0	47.0	42.5	39.0	37.0	32.0	50.0

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

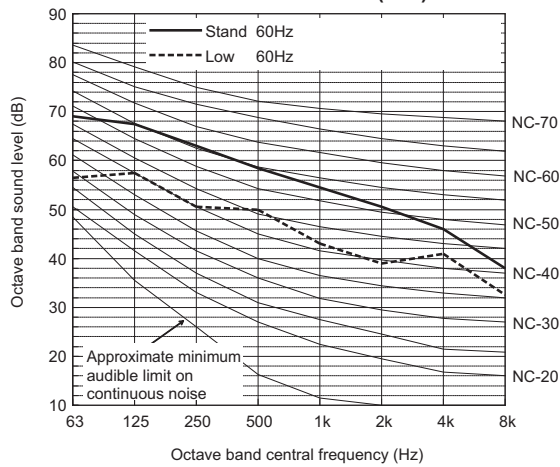
Sound level of PUHY-P144YSKMU-A(-BS)



	60Hz	63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	68.0	67.0	64.0	58.0	55.0	50.0	44.0	41.0	61.0
Low noise mode	60Hz	60.0	52.0	49.0	42.0	42.0	36.0	36.0	29.0	47.0

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

Sound level of PUHY-P144T/YKMU-A(-BS)



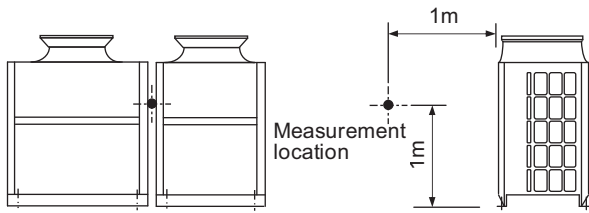
	60Hz	63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	69.0	67.5	63.0	58.5	54.5	50.5	46.0	38.0	61.0
Low noise mode	60Hz	56.5	57.5	50.5	50.0	43.0	39.0	41.0	32.5	51.0

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.

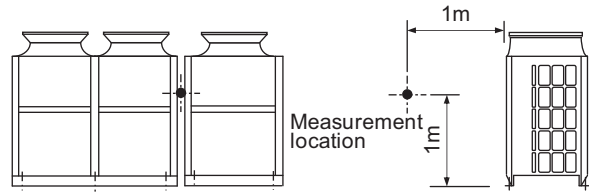
(K) Y

Y (K)

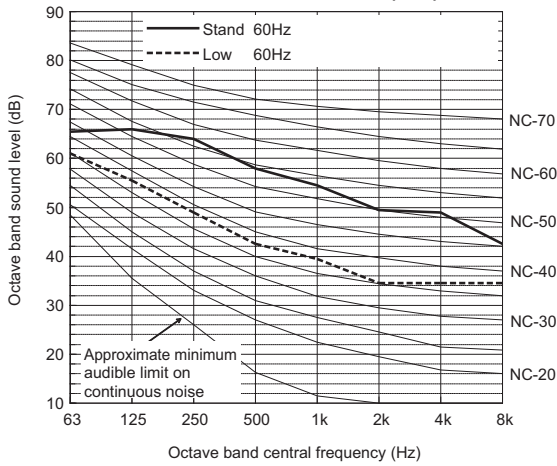
Measurement condition
PUHY-P168TSKMU/YSKMU



Measurement condition
PUHY-P192TSKMU/YSKMU



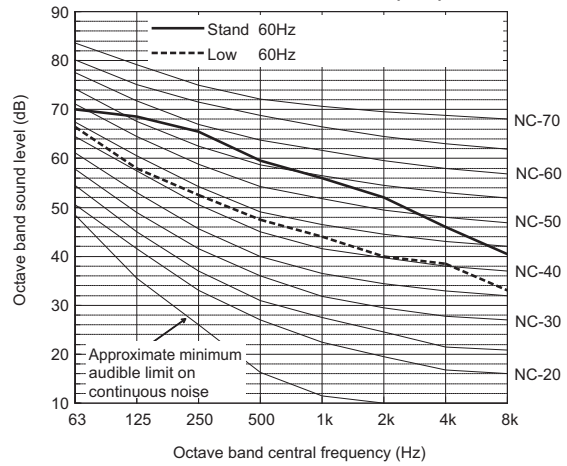
Sound level of PUHY-P168T/YSKMU-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	65.5	66.0	64.0	58.0	54.5	49.5	49.0	42.5	61.0
Low noise mode	60Hz	61.0	55.5	49.0	42.5	39.5	34.5	34.5	34.5	47.0

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

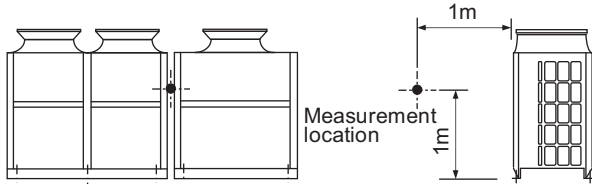
Sound level of PUHY-P192T/YSKMU-A(-BS)



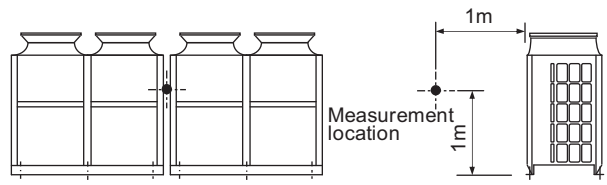
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	70.0	68.5	65.5	59.5	56.0	52.0	46.0	40.5	62.5
Low noise mode	60Hz	66.5	58.0	52.5	47.5	44.0	40.0	38.5	33.0	51.0

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

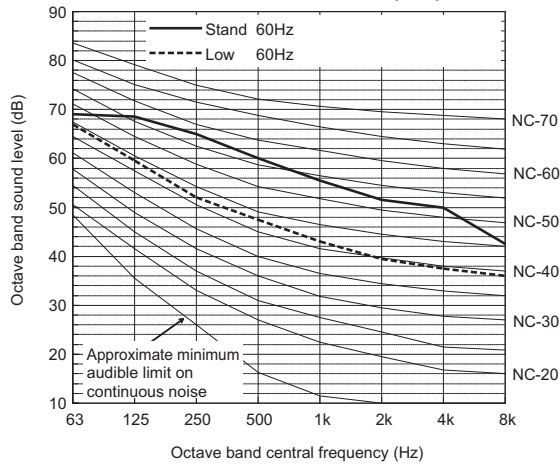
Measurement condition
PUHY-P216TSKMU/YSKMU



Measurement condition
PUHY-P240TSKMU/YSKMU



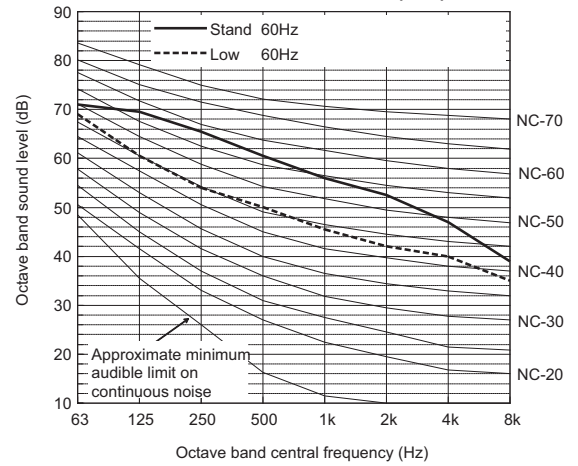
Sound level of PUHY-P216T/YSKMU-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	69.0	68.5	65.0	60.0	55.5	51.5	50.0	42.5	62.5
Low noise mode	60Hz	67.0	59.5	52.0	47.5	43.0	39.5	37.5	36.0	51.0

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

Sound level of PUHY-P240T/YSKMU-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	71.0	69.5	65.5	60.5	56.0	52.5	47.0	39.0	63.0
Low noise mode	60Hz	69.0	60.5	54.0	50.0	45.5	42.0	40.0	35.0	53.0

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

Y (K)

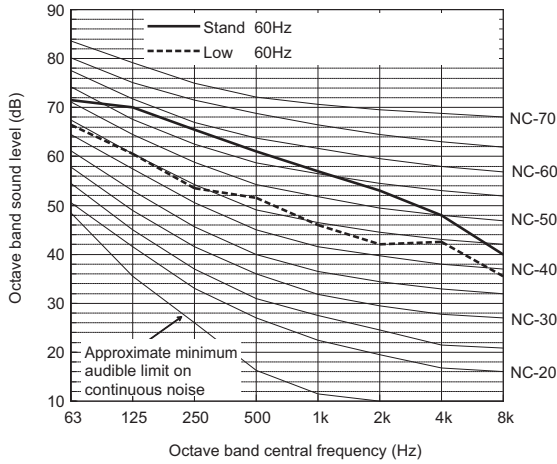
Measurement condition
PUHY-P264TSKMU/YSKMU



Measurement condition
PUHY-P288TSKMU/YSKMU



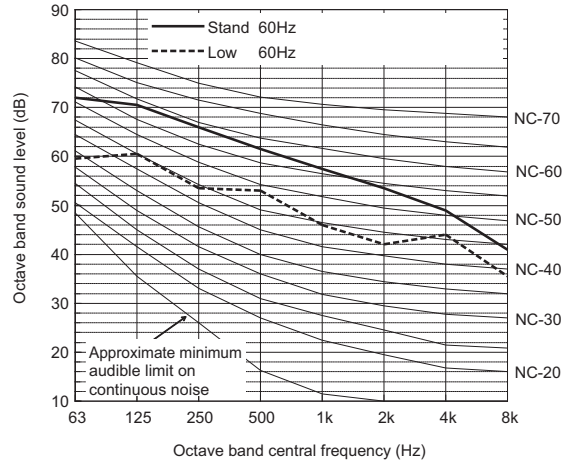
Sound level of PUHY-P264T/YSKMU-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	71.5	70.0	65.5	61.0	57.0	53.0	48.0	40.0	63.5
Low noise mode	60Hz	66.5	60.5	53.5	51.5	46.0	42.0	42.5	35.5	53.5

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 PUHY-P288T/YSKMU-A(-BS)



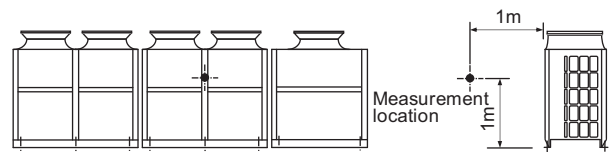
		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	72.0	70.5	66.0	61.5	57.5	53.5	49.0	41.0	64.0
Low noise mode	60Hz	59.5	60.5	53.5	53.0	46.0	42.0	44.0	35.5	54.0

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.

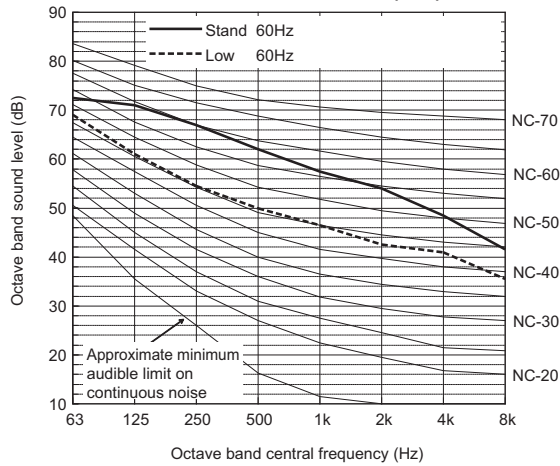
**Measurement condition
PUHY-P312TSKMU/YSKMU**



**Measurement condition
PUHY-P336TSKMU/YSKMU**



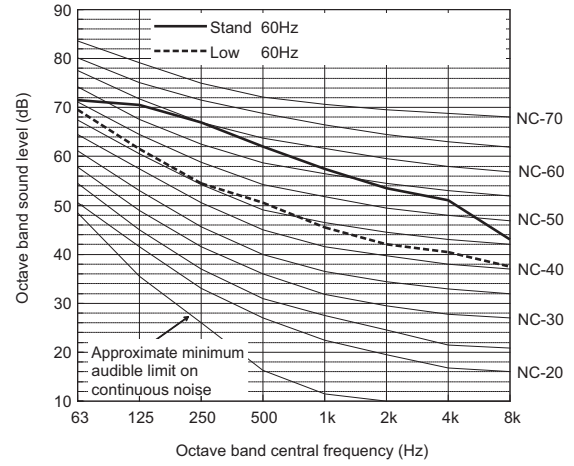
Sound level of PUHY-P312T/YSKMU-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	72.5	71.0	67.0	62.0	57.5	54.0	48.5	41.5	64.5
Low noise mode	60Hz	69.0	61.0	54.5	50.0	46.5	42.5	41.0	35.5	53.5

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 PUHY-P336T/YSKMU-A(-BS)

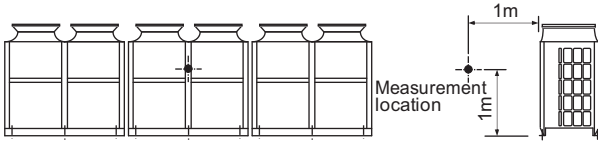


		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	71.5	70.5	67.0	62.0	57.5	53.5	51.0	43.0	64.5
Low noise mode	60Hz	69.5	61.5	54.5	50.5	45.5	42.0	40.5	37.5	53.5

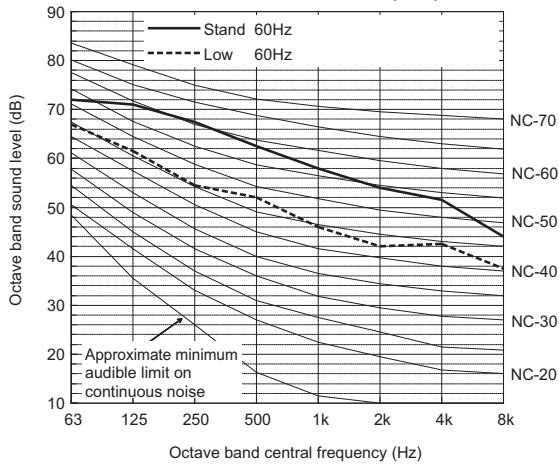
When Low noise mode is set, the A/C system's capacity is limited. The system could return to normal operation from Low noise mode automatically in the case that the operation condition is severe.

Y (K)

Measurement condition
PUHY-P360TSKMU/YSKMU



Sound level of PUHY-P360T/YSKMU-A(-BS)



		63	125	250	500	1k	2k	4k	8k	dB(A)
Standard	60Hz	72.0	71.0	67.5	62.5	58.0	54.0	51.5	44.0	65.0
Low noise mode	60Hz	67.0	61.5	54.5	52.0	46.0	42.0	42.5	37.5	54.0

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.

[PUHY-P72-144T/YKMU, PUHY-P144-360T/YSKMU]

Measurement condition

Measurement frequency: 1 Hz-80 Hz

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

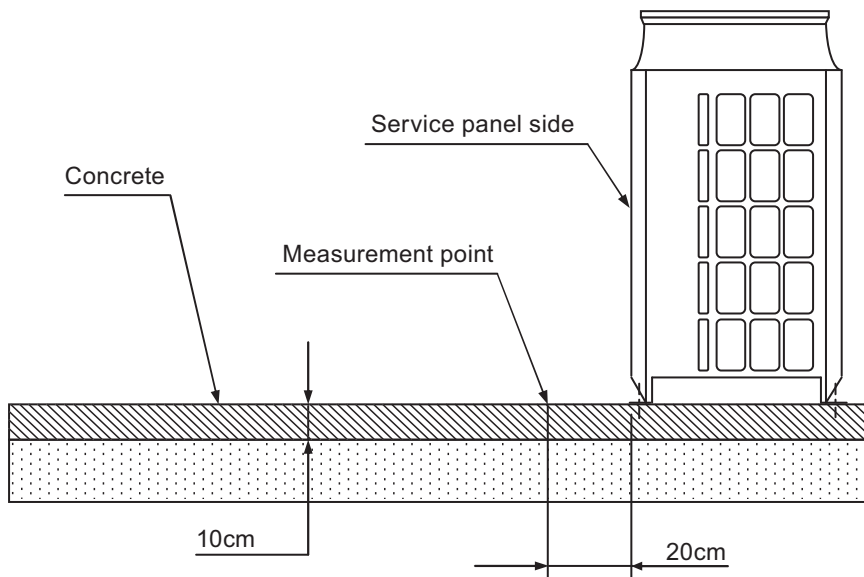
Installation condition: Direct installation on the concrete floor

Power source: 3-phase 3-wire 208 V-230 V 60 Hz: For TKMU series

3-phase 3-wire 460 V 60 Hz: For YKMU series

Operation condition: JIS condition (cooling, heating)

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



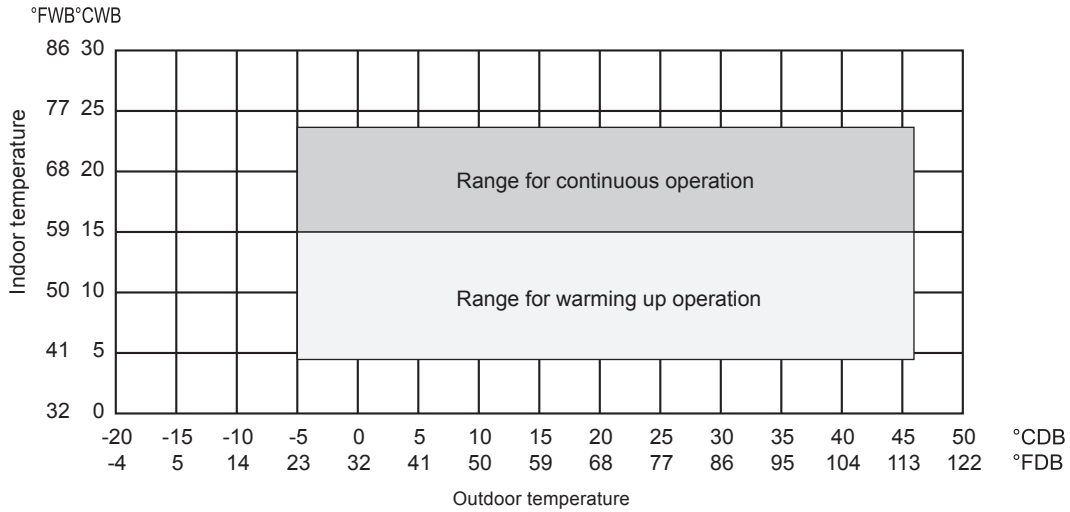
Vibration level

Model	Vibration level (dB)
PUHY-P72T(Y)KMU-A(-BS)	45
PUHY-P96T(Y)KMU-A(-BS)	47
PUHY-P120T(Y)KMU-A(-BS)	47
PUHY-P144T(Y)KMU-A(-BS)	47
PUHY-P144YSKMU-A(-BS)	48
PUHY-P168T(Y)SKMU-A(-BS)	49.5
PUHY-P192T(Y)SKMU-A(-BS)	49.5
PUHY-P216T(Y)SKMU-A(-BS)	50
PUHY-P240T(Y)SKMU-A(-BS)	50
PUHY-P264T(Y)SKMU-A(-BS)	50.5
PUHY-P288T(Y)SKMU-A(-BS)	51.5
PUHY-P312T(Y)SKMU-A(-BS)	51.5
PUHY-P336T(Y)SKMU-A(-BS)	52
PUHY-P360T(Y)SKMU-A(-BS)	52

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

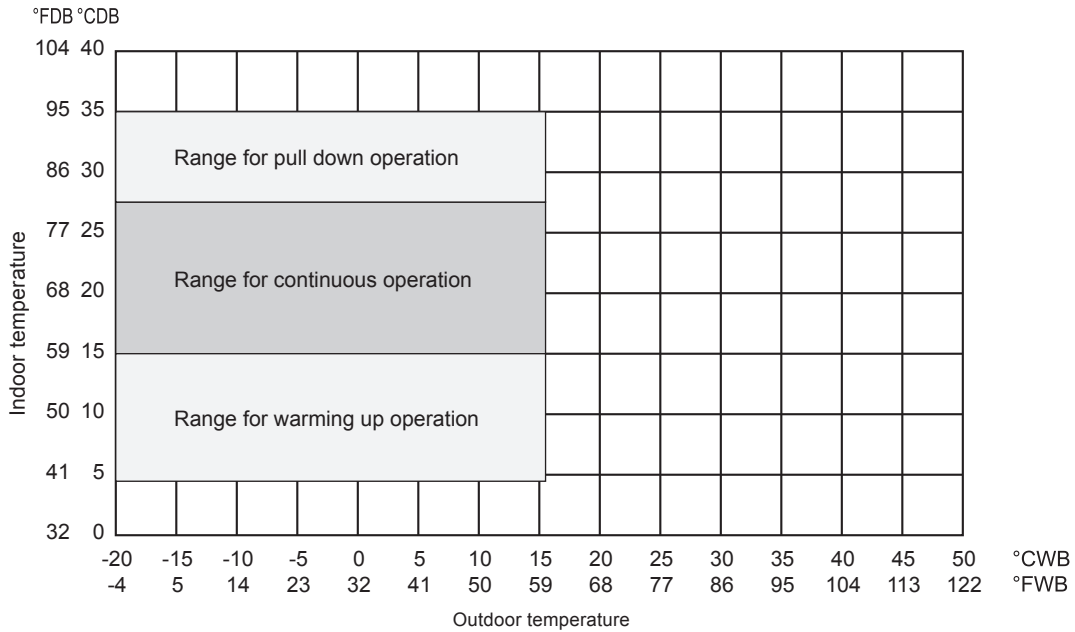
7. OPERATION TEMPERATURE RANGE

• Cooling



* The operation temperature of outdoor unit is limited into 0~43°CDB(32~109°FDB) when the outdoor unit is installed in a location that is positioned lower than the indoor units.

• Heating



Ref.: tr-ygm-y

Installation of the low ambient kit is recommended to operate in cooling mode in conditions under 50°F [10°C].

Section 8-1.

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

Section 8-2. through 8-5.

Show the actual correction data of indoor and outdoor units.

8-1. Selection of Cooling/Heating Units

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

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

Y (K)

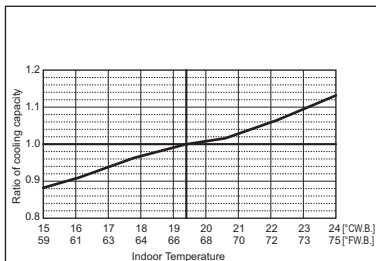
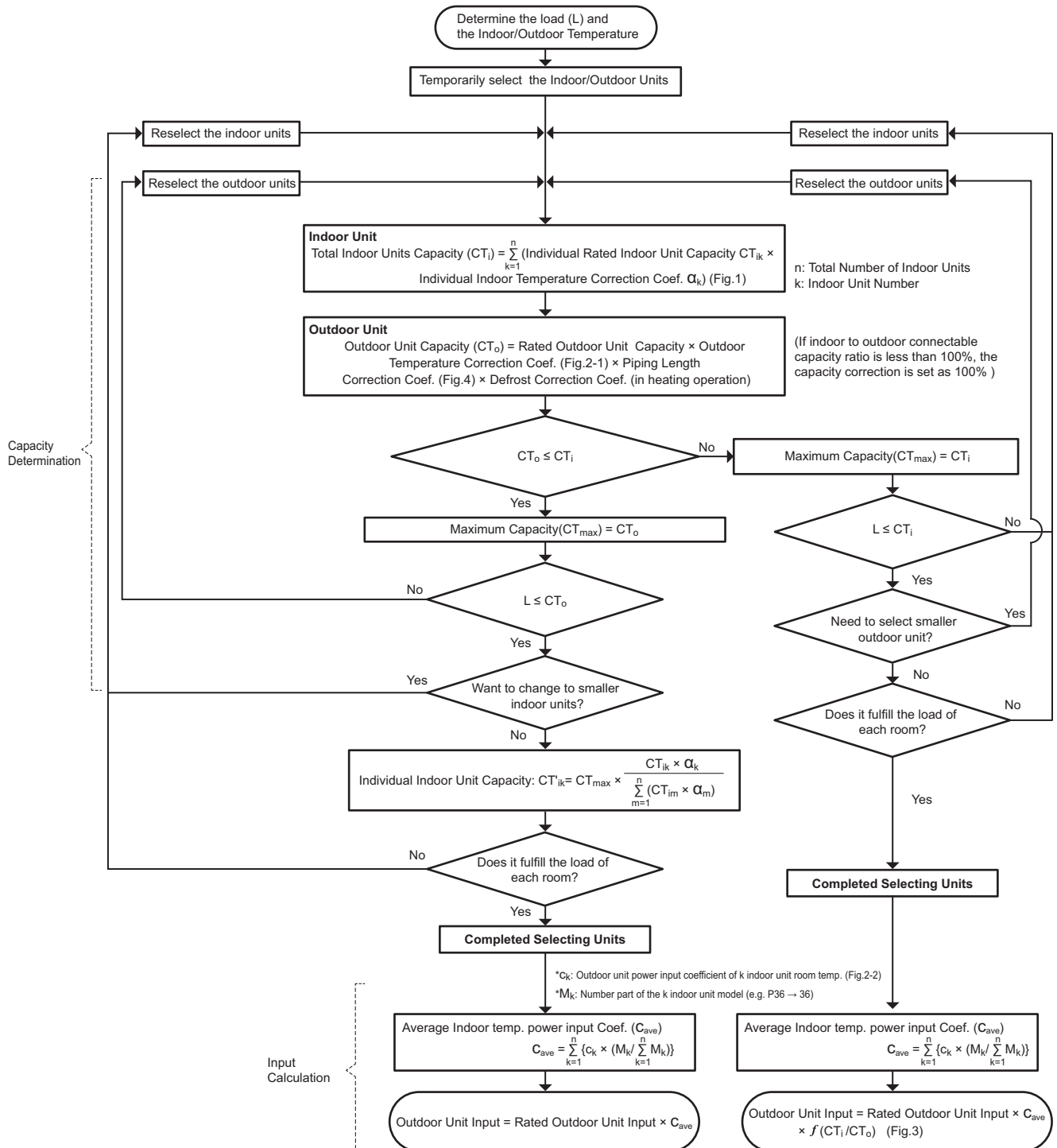


Fig.1 Indoor unit temperature correction

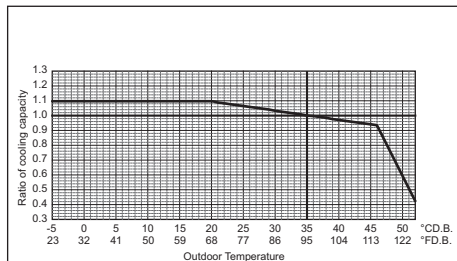


Fig.2-1 Outdoor unit temperature correction (capacity)

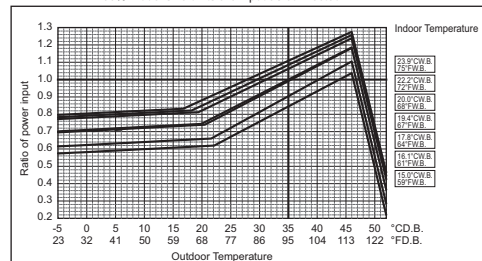
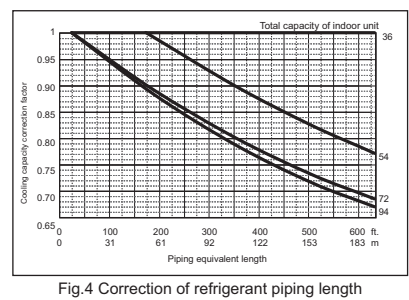
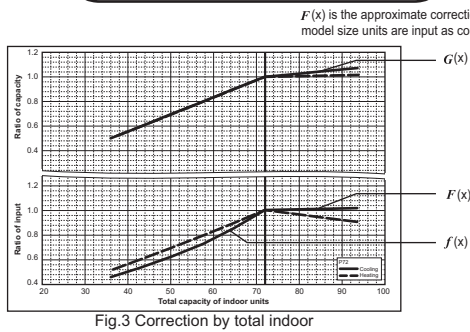
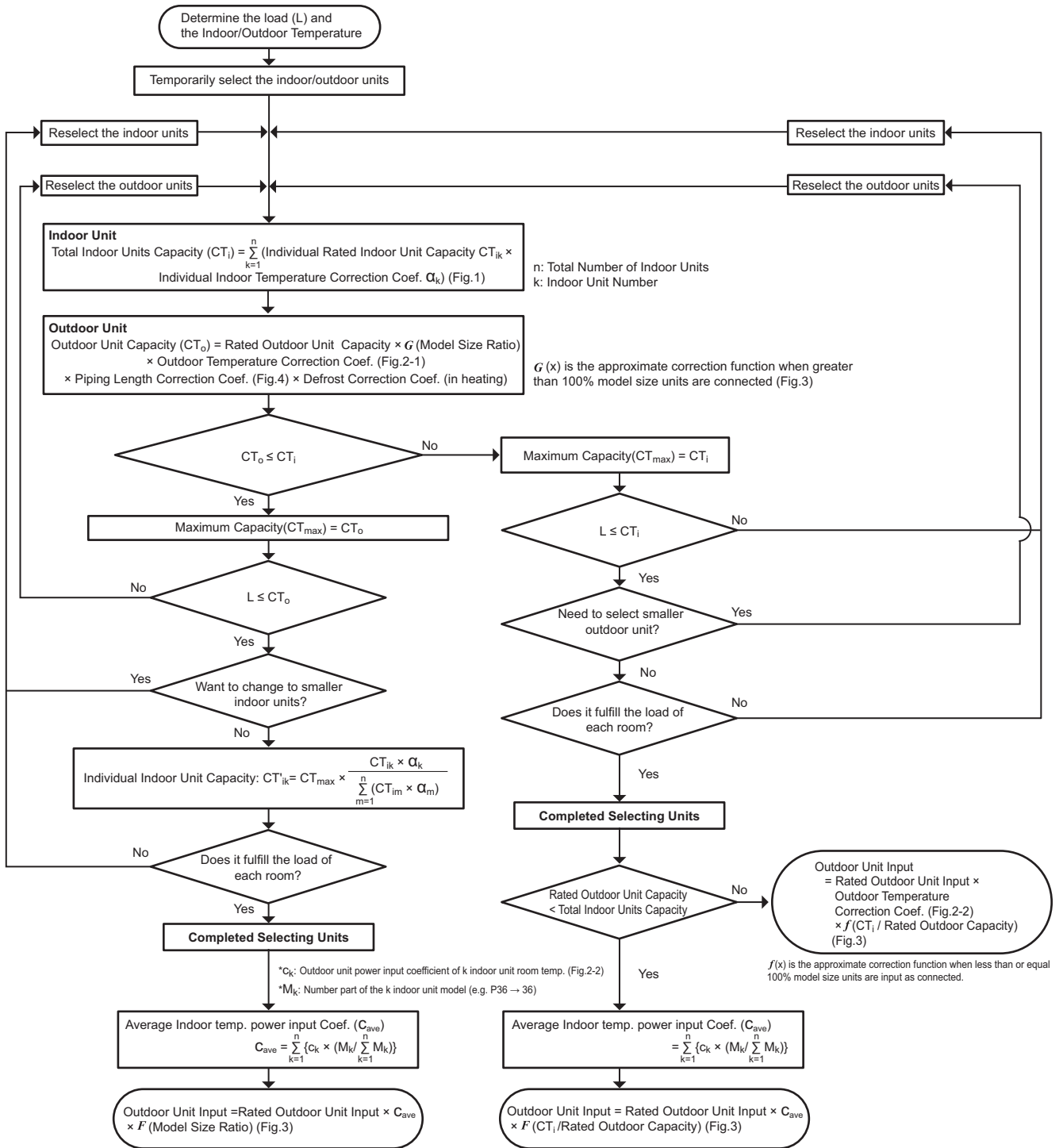


Fig.2-2 Outdoor unit temperature correction (power input)

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

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



<Cooling>

Design Condition	
Outdoor Design Dry Bulb Temperature	37 °C
Total Cooling Load	18.5 kW
Room1	
Indoor Design Dry Bulb Temperature	27 °C
Indoor Design Wet Bulb Temperature	20 °C
Cooling Load	9.0 kW
Room2	
Indoor Design Dry Bulb Temperature	24 °C
Indoor Design Wet Bulb Temperature	17.8 °C
Cooling Load	9.5 kW
<Other>	
Indoor/Outdoor Equivalent Piping Length	30 m

1. Cooling Calculation

(1) Temporary Selection of Indoor Units

Room1	PEFY-P36	10.6 kW (Rated)
Room2	PEFY-P36	10.6 kW (Rated)

(2) Total Indoor Units Capacity

$$P36 + P36 = P72$$

(3) Selection of Outdoor Unit

The P72 outdoor unit is selected as total indoor units capacity is P72

PUHY-P72	21.1 kW
----------	---------

(4) Total Indoor Units Capacity Correction Calculation

Room1	Indoor Design Wet Bulb Temperature Correction (20°C)	1.02 (Refer to Fig.1)
Room2	Indoor Design Wet Bulb Temperature Correction (18°C)	0.96 (Refer to Fig.1)

Total Indoor Units Capacity (CTi)

$$\begin{aligned} CTi &= \Sigma (\text{Indoor Unit Rating} \times \text{Indoor Design Temperature Correction}) \\ &= 10.6 \times 1.02 + 10.6 \times 0.96 \\ &= 20.9 \text{ kW} \end{aligned}$$

(5) Outdoor Unit Correction Calculation

Outdoor Design Dry Bulb Temperature Correction (37°C)	0.99 (Refer to Fig.2)
Piping Length Correction (30 m)	0.95 (Refer to Fig.3)

Total Outdoor Unit Capacity (CTo)

$$\begin{aligned} CTo &= \text{Outdoor Rating} \times \text{Outdoor Design Temperature Correction} \times \text{Piping Length Correction} \\ &= 21.1 \times 0.99 \times 0.95 \\ &= 19.8 \text{ kW} \end{aligned}$$

(6) Determination of Maximum System Capacity (CTx)

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

$$CTi = 20.9 > CTo = 19.8, \text{ thus, select } CTo.$$

$$CTx = CTo = 19.8 \text{ kW}$$

(7) Comparison with Essential Load

Against the essential load 18.5kW, the maximum system capacity is 19.8kW: Proper outdoor units have been selected.

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

CTx = CTo, thus, calculate by the calculation below

Room1

$$\begin{aligned} &\text{Maximum Capacity} \times \text{Room1 Capacity after the Temperature Correction} / (\text{Room1,2 Total Capacity after the Temperature Correction}) \\ &= 19.8 \times (10.6 \times 1.02) / (10.6 \times 1.02 + 10.6 \times 0.96) \\ &= 10.2 \text{ kW} \quad \text{OK: fulfills the load 9.0kW} \end{aligned}$$

Room2

$$\begin{aligned} &\text{Maximum Capacity} \times \text{Room2 Capacity after the Temperature Correction} / (\text{Room1,2 Total Capacity after the Temperature Correction}) \\ &= 19.8 \times (10.6 \times 0.96) / (10.6 \times 1.02 + 10.6 \times 0.96) \\ &= 9.6 \text{ kW} \quad \text{OK: fulfills the load 9.5kW} \end{aligned}$$

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

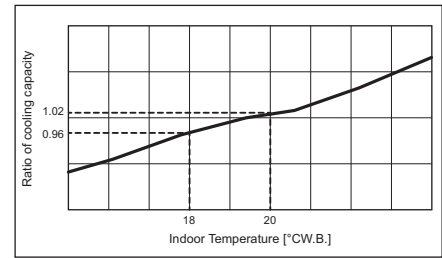


Fig.1 Indoor unit temperature correction

To be used to correct indoor unit only

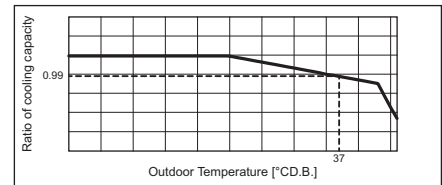


Fig.2 Outdoor unit temperature correction

To be used to correct outdoor unit only

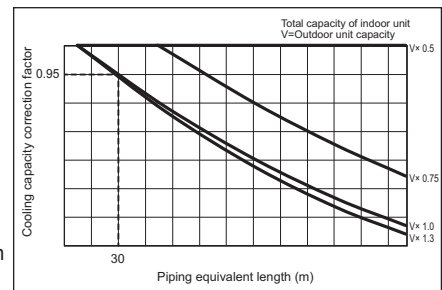


Fig.3 Correction of refrigerant piping length

<Heating>

Design Condition	
Outdoor Design Wet Bulb Temperature	2 °C
Total Heating Load	18.2 kW
Room1	
Indoor Design Dry Bulb Temperature	25 °C
Heating Load	9.2 kW
Room2	
Indoor Design Dry Bulb Temperature	25 °C
Heating Load	9.0 kW
<Other>	
Indoor/Outdoor Equivalent Piping Length	30 m

2. Heating Calculation

(1) Temporary Selection of Indoor Units

Room1	PEFY-P36	11.7 kW (Rated)
Room2	PEFY-P36	11.7 kW (Rated)

(2) Total Indoor Units Capacity

$$P36 + P36 = P72$$

(3) Selection of Outdoor Unit

The P72 outdoor unit is selected as total indoor units capacity is P72

PUHY-P72	23.4 kW
----------	---------

(4) Total Indoor Units Capacity Correction Calculation

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

Total Indoor Units Capacity (CTi)

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

$$= 11.7 \times 0.80 + 11.7 \times 0.80$$

$$= 18.7 \text{ kW}$$

(5) Outdoor Unit Correction Calculation

Outdoor Design Wet Bulb Temperature Correction (2°C)	0.98 (Refer to Fig.5)
Piping Length Correction (30 m)	0.98 (Refer to Fig.6)
Defrost Correction	0.84 (Refer to Tbl.1)

Total Outdoor Unit Capacity (CTo)

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

$$= 23.4 \times 0.98 \times 0.98 \times 0.84$$

$$= 18.8 \text{ kW}$$

(6) Determination of Maximum System Capacity (CTx)

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

$$CTi = 18.7 < CTo = 18.8, \text{ thus, select } CTi.$$

$$CTx = CTi = 18.7 \text{ kW}$$

(7) Comparison with Essential Load

Against the essential load 18.2kW, the maximum system capacity is 18.7kW: Proper outdoor units have been selected.

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

CTx = CTi, thus, calculate by the calculation below

Room1	Indoor Unit Rating × Indoor Design Temperature Correction	
	= 11.7 × 0.80	
	= 9.4 kW	OK: fulfills the load 9.2kW

Room2	Indoor Unit Rating × Indoor Design Temperature Correction	
	= 11.7 × 0.80	
	= 9.4 kW	OK: fulfills the load 9.0kW

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

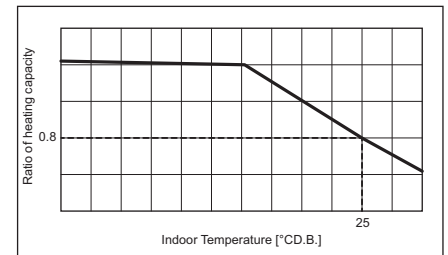


Fig.4 Indoor unit temperature correction
To be used to correct indoor unit only

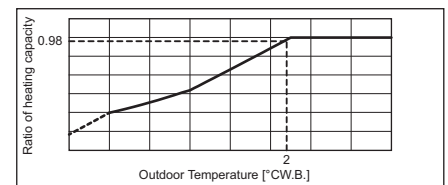


Fig.5 Outdoor unit temperature correction
To be used to correct outdoor unit only

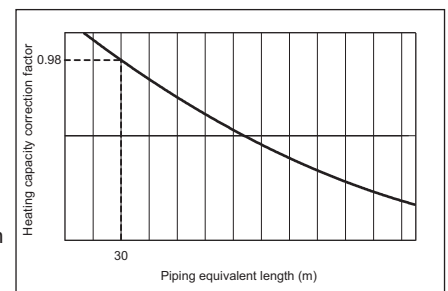


Fig.6 Correction of refrigerant piping length

Tbl.1 Table of correction factor at frost and defrost

Outdoor inlet air temp. °C	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Outdoor inlet air temp. °F	43	39	36	34	32	28	25	21	18	14	-4
PUHY-P72	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PUHY-P96	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PUHY-P120	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-P144	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-P168	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95

3. Power input of outdoor unit

<Cooling>

(1) Rated power input of outdoor unit **4.55 kW (Nominal)****(2) Calculation of the average indoor temperature power input coefficient**

Coefficient of the outdoor unit for indoor unit 1 (Outdoor temp. 37 °CD.B., Indoor temp. 20 °CW.B.)

1.09

Coefficient of the outdoor unit for indoor unit 2 (Outdoor temp. 37 °CD.B., Indoor temp. 17.8 °CW.B.)

1.03

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

n: Total number of the indoor units

k: Number of the indoor unit

c_k: Outdoor unit power input coefficient of k indoor unit room temp.M_k: Number part of the k indoor unit model (e.g. P36 → 36)

$$= 1.09 \times 36 / (36 + 36) + 1.03 \times 36 / (36 + 36)$$

$$= 1.06$$

(3) No need to consider Coefficient of the partial load $f(CTi/CTo)$ -**(4) Outdoor power input (P_{lo})**Maximum System Capacity (CT_x) = Total Outdoor unit Capacity (CT_o), so use the following formulaP_{lo} = Outdoor unit Cooling Rated Power Input × Correction Coefficient of Indoor temperature

$$= 4.55 \times 1.06$$

$$= 4.82 \text{ kW}$$

<Heating>

(1) Rated power input of outdoor unit **5.48 kW (Nominal)****(2) Calculation of the average indoor temperature power input coefficient**Coefficient of the outdoor unit for indoor unit 1 (Outdoor temp. 2 °CW.B., Indoor temp. 25 °CD.B.)
0.80Coefficient of the outdoor unit for indoor unit 2 (Outdoor temp. 2 °CW.B., Indoor temp. 25 °CD.B.)
0.80

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

n: Total number of the indoor units

k: Number of the indoor unit

c_k: Outdoor unit power input coefficient of k indoor unit room temp.M_k: Number part of the k indoor unit model (e.g. P36 → 36)

$$= 0.8 \times 36 / (36 + 36) + 0.8 \times 36 / (36 + 36)$$

$$= 0.80$$

(3) Coefficient of the partial load f (CTi/CTo) **0.94****(4) Outdoor power input (P_{lo})**Maximum System Capacity (CT_x) = Total Indoor unit Capacity (CT_i), so use the following formula

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

$$= 5.48 \times 0.8 \times 0.94$$

$$= 4.10 \text{ kW}$$

<Cooling>

Design Condition	
Outdoor Design Dry Bulb Temperature	99 °F
Total Cooling Load	63,000 BTU/h
Room1	
Indoor Design Dry Bulb Temperature	81 °F
Indoor Design Wet Bulb Temperature	68 °F
Cooling Load	31,000 BTU/h
Room2	
Indoor Design Dry Bulb Temperature	75 °F
Indoor Design Wet Bulb Temperature	64 °F
Cooling Load	32,000 BTU/h
<Other>	
Indoor/Outdoor Equivalent Piping Length	100 ft.

1. Cooling Calculation

(1) Temporary Selection of Indoor Units

Room1	PEFY-P36	36,000 BTU/h (Rated)
Room2	PEFY-P36	36,000 BTU/h (Rated)

(2) Total Indoor Units Capacity

$P36 + P36 = P72$

(3) Selection of Outdoor Unit

The P72 outdoor unit is selected as total indoor units capacity is P72

PUHY-P72	72,000 BTU/h
----------	--------------

(4) Total Indoor Units Capacity Correction Calculation

Room1	Indoor Design Wet Bulb Temperature Correction (68°F)	1.02 (Refer to Fig.1)
Room2	Indoor Design Wet Bulb Temperature Correction (64°F)	0.96 (Refer to Fig.1)

Total Indoor Units Capacity (CTi)

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

$$= 36,000 \times 1.02 + 36,000 \times 0.96$$

$$= 71,200 \text{ BTU/h}$$

(5) Outdoor Unit Correction Calculation

Outdoor Design Dry Bulb Temperature Correction (99°F)	0.99 (Refer to Fig.2)
Piping Length Correction (100 ft.)	0.95 (Refer to Fig.3)

Total Outdoor Unit Capacity (CTo)

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

$$= 72,000 \times 0.99 \times 0.95$$

$$= 67,700 \text{ BTU/h}$$

(6) Determination of Maximum System Capacity (CTx)

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

$CTi = 71,200 > CTo = 67,700$, thus, select CTo.

$CTx = CTo = 67,700 \text{ BTU/h}$

(7) Comparison with Essential Load

Against the essential load 63,000BTU/h, the maximum system capacity is 67,700BTU/h: Proper outdoor units have been selected.

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

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

Room1

$$\text{Maximum Capacity} \times \text{Room1 Capacity after the Temperature Correction} / (\text{Room1,2 Total Capacity after the Temperature Correction})$$

$$= 67,700 \times (36,000 \times 1.02) / (36,000 \times 1.02 + 36,000 \times 0.96)$$

$$= 34,800 \text{ BTU/h} \quad \text{OK: fulfills the load 31,000BTU/h}$$

Room2

$$\text{Maximum Capacity} \times \text{Room2 Capacity after the Temperature Correction} / (\text{Room1,2 Total Capacity after the Temperature Correction})$$

$$= 67,700 \times (36,000 \times 0.96) / (36,000 \times 1.02 + 36,000 \times 0.96)$$

$$= 32,800 \text{ BTU/h} \quad \text{OK: fulfills the load 32,000BTU/h}$$

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

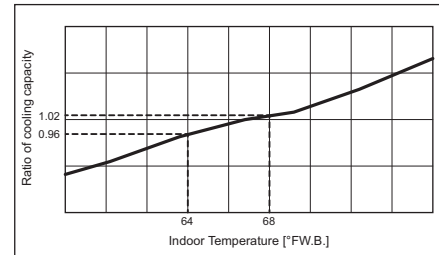


Fig.1 Indoor unit temperature correction
To be used to correct indoor unit only

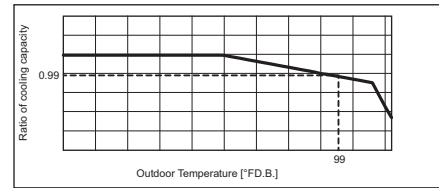


Fig.2 Outdoor unit temperature correction
To be used to correct outdoor unit only

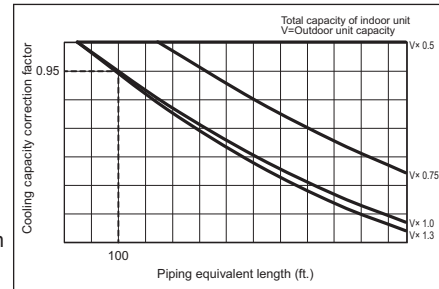


Fig.3 Correction of refrigerant piping length

<Heating>

Design Condition	
Outdoor Design Wet Bulb Temperature	37 °F
Total Heating Load	62,000 BTU/h
Room1	
Indoor Design Dry Bulb Temperature	77 °F
Heating Load	31,000 BTU/h
Room2	
Indoor Design Dry Bulb Temperature	77 °F
Heating Load	31,000 BTU/h
<Other>	
Indoor/Outdoor Equivalent Piping Length	100 ft.

2. Heating Calculation

(1) Temporary Selection of Indoor Units

Room1	PEFY-P36	40,000 BTU/h (Rated)
Room2	PEFY-P36	40,000 BTU/h (Rated)

(2) Total Indoor Units Capacity

$P36 + P36 = P72$

(3) Selection of Outdoor Unit

The P72 outdoor unit is selected as total indoor units capacity is P72

PUHY-P72	80,000 BTU/h
----------	--------------

(4) Total Indoor Units Capacity Correction Calculation

Room1	Indoor Design Dry Bulb Temperature Correction (77°F)	0.80 (Refer to Fig.4)
Room2	Indoor Design Dry Bulb Temperature Correction (77°F)	0.80 (Refer to Fig.4)

Total Indoor Units Capacity (CTi)

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

$$= 40,000 \times 0.80 + 40,000 \times 0.80$$

$$= 64,000 \text{ BTU/h}$$

(5) Outdoor Unit Correction Calculation

Outdoor Design Wet Bulb Temperature Correction (37°F)	0.99 (Refer to Fig.5)
Piping Length Correction (100 ft.)	0.98 (Refer to Fig.6)
Defrost Correction	0.87 (Refer to Tbl.1)

Total Outdoor Unit Capacity (CTo)

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

$$= 80,000 \times 0.99 \times 0.98 \times 0.87$$

$$= 67,000 \text{ BTU/h}$$

(6) Determination of Maximum System Capacity (CTx)

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

$CTi = 64,000 < CTo = 67,000$, thus, select CTi.

$CTx = CTi = 64,000 \text{ BTU/h}$

(7) Comparison with Essential Load

Against the essential load 62,000BTU/h, the maximum system capacity is 64,000BTU/h: Proper outdoor units have been selected.

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

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

Room1	Indoor Unit Rating × Indoor Design Temperature Correction	
	$= 40,000 \times 0.80$	
	$= 32,000 \text{ BTU/h}$	OK: fulfills the load 31,000BTU/h

Room2	Indoor Unit Rating × Indoor Design Temperature Correction	
	$= 40,000 \times 0.80$	
	$= 32,000 \text{ BTU/h}$	OK: fulfills the load 31,000BTU/h

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

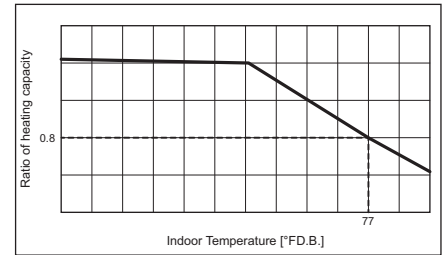


Fig.4 Indoor unit temperature correction
To be used to correct indoor unit only

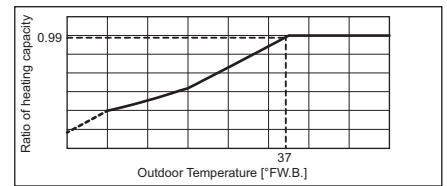


Fig.5 Outdoor unit temperature correction
To be used to correct outdoor unit only

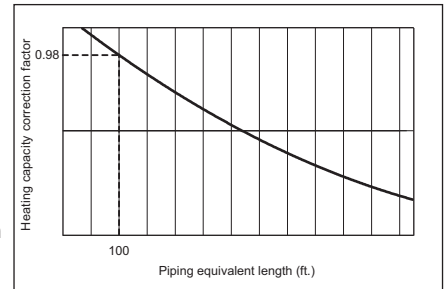


Fig.6 Correction of refrigerant piping length

Tbl.1 Table of correction factor at frost and defrost

Outdoor inlet air temp. °C	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Outdoor inlet air temp. °F	43	39	36	34	32	28	25	21	18	14	-4
PUHY-P72	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PUHY-P96	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PUHY-P120	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-P144	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-P168	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95

3. Power input of outdoor unit

<Cooling>

(1) Rated power input of outdoor unit **4.55 kW (Nominal)****(2) Calculation of the average indoor temperature power input coefficient**

Coefficient of the outdoor unit for indoor unit 1 (Outdoor temp. 99 °FD.B., Indoor temp. 68 °FW.B.)

1.09

Coefficient of the outdoor unit for indoor unit 2 (Outdoor temp. 99 °FD.B., Indoor temp. 64 °FW.B.)

1.03

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

n: Total number of the indoor units

k: Number of the indoor unit

c_k: Outdoor unit power input coefficient of k indoor unit room temp.M_k: Number part of the k indoor unit model (e.g. P36 → 36)

$$= 1.09 \times 36 / (36 + 36) + 1.03 \times 36 / (36 + 36)$$

$$= 1.06$$

(3) No need to consider Coefficient of the partial load $f(CTi/CTo)$ -**(4) Outdoor power input (P_{lo})**Maximum System Capacity (CT_x) = Total Outdoor unit Capacity (CT_o), so use the following formulaP_{lo} = Outdoor unit Cooling Rated Power Input × Correction Coefficient of Indoor temperature

$$= 4.55 \times 1.06$$

$$= 4.82 \text{ kW}$$

<Heating>

(1) Rated power input of outdoor unit **5.48 kW (Nominal)****(2) Calculation of the average indoor temperature power input coefficient**Coefficient of the outdoor unit for indoor unit 1 (Outdoor temp. 35.6 °FW.B., Indoor temp. 77 °FD.B.)
0.80Coefficient of the outdoor unit for indoor unit 2 (Outdoor temp. 35.6 °FW.B., Indoor temp. 77 °FD.B.)
0.80

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

n: Total number of the indoor units

k: Number of the indoor unit

c_k: Outdoor unit power input coefficient of k indoor unit room temp.M_k: Number part of the k indoor unit model (e.g. P36 → 36)

$$= 0.8 \times 36 / (36 + 36) + 0.8 \times 36 / (36 + 36)$$

$$= 0.80$$

(3) Coefficient of the partial load f (CTi/CTo) **0.92****(4) Outdoor power input (P_{lo})**Maximum System Capacity (CT_x) = Total Indoor unit Capacity (CT_i), so use the following formula

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

$$= 5.48 \times 0.8 \times 0.92$$

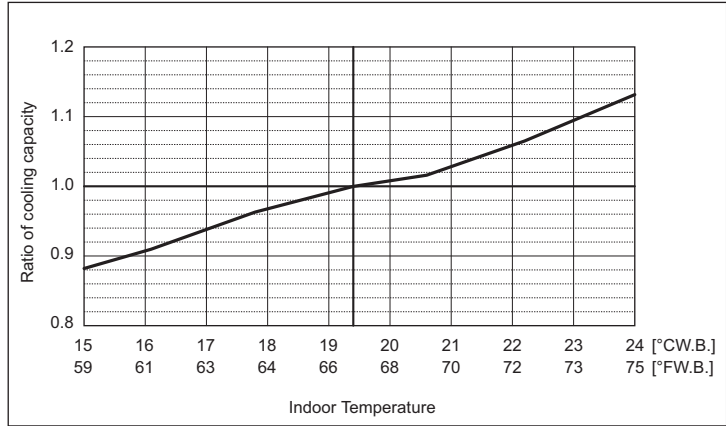
$$= 4.04 \text{ kW}$$

8-2. 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.

PUHY-		P72TKMU/YKMU		P96TKMU/YKMU	
		Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal cooling capacity	BTU/h	72,000		96,000	
	kW	21.1		28.1	
	Input kW	5.06		7.00	
Rated cooling capacity	BTU/h	69,000		92,000	
	kW	20.2		27.0	
	Input kW	4.58	4.79	6.35	6.62

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

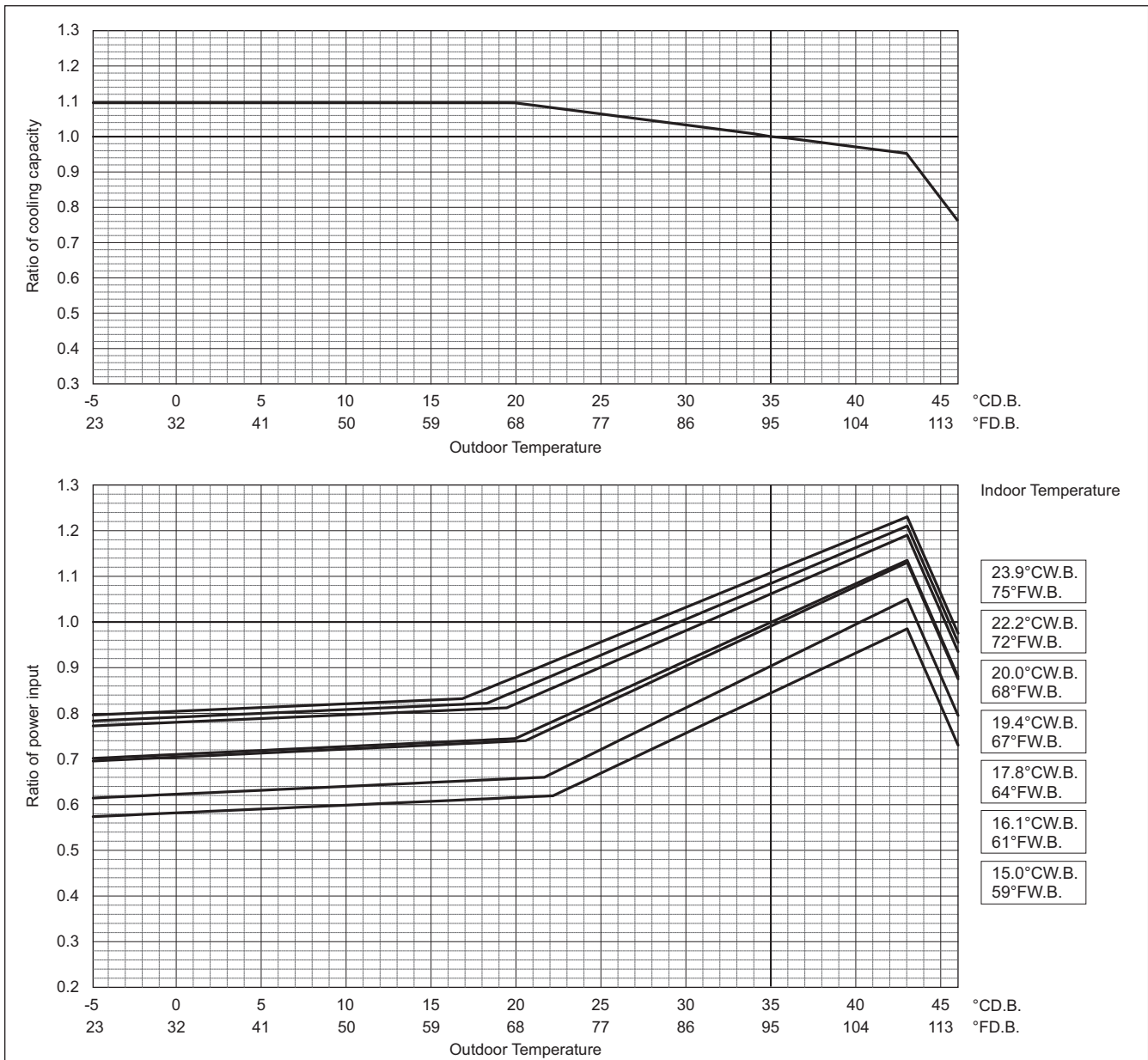


Outdoor unit temperature correction

To be used to correct outdoor unit only

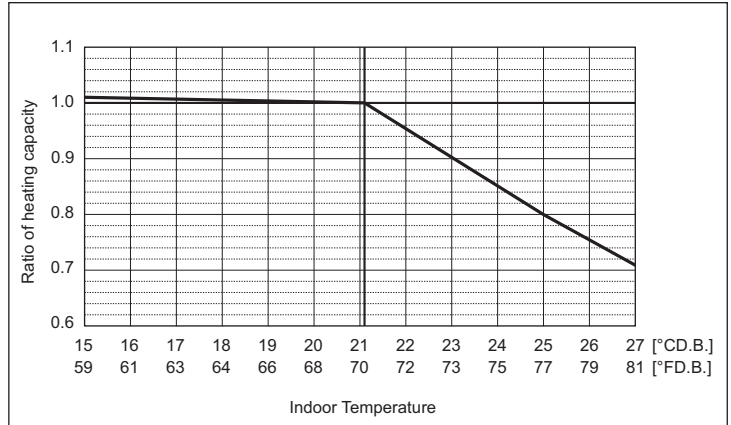
Outdoor unit capacity is NOT affected by the indoor temperature.

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



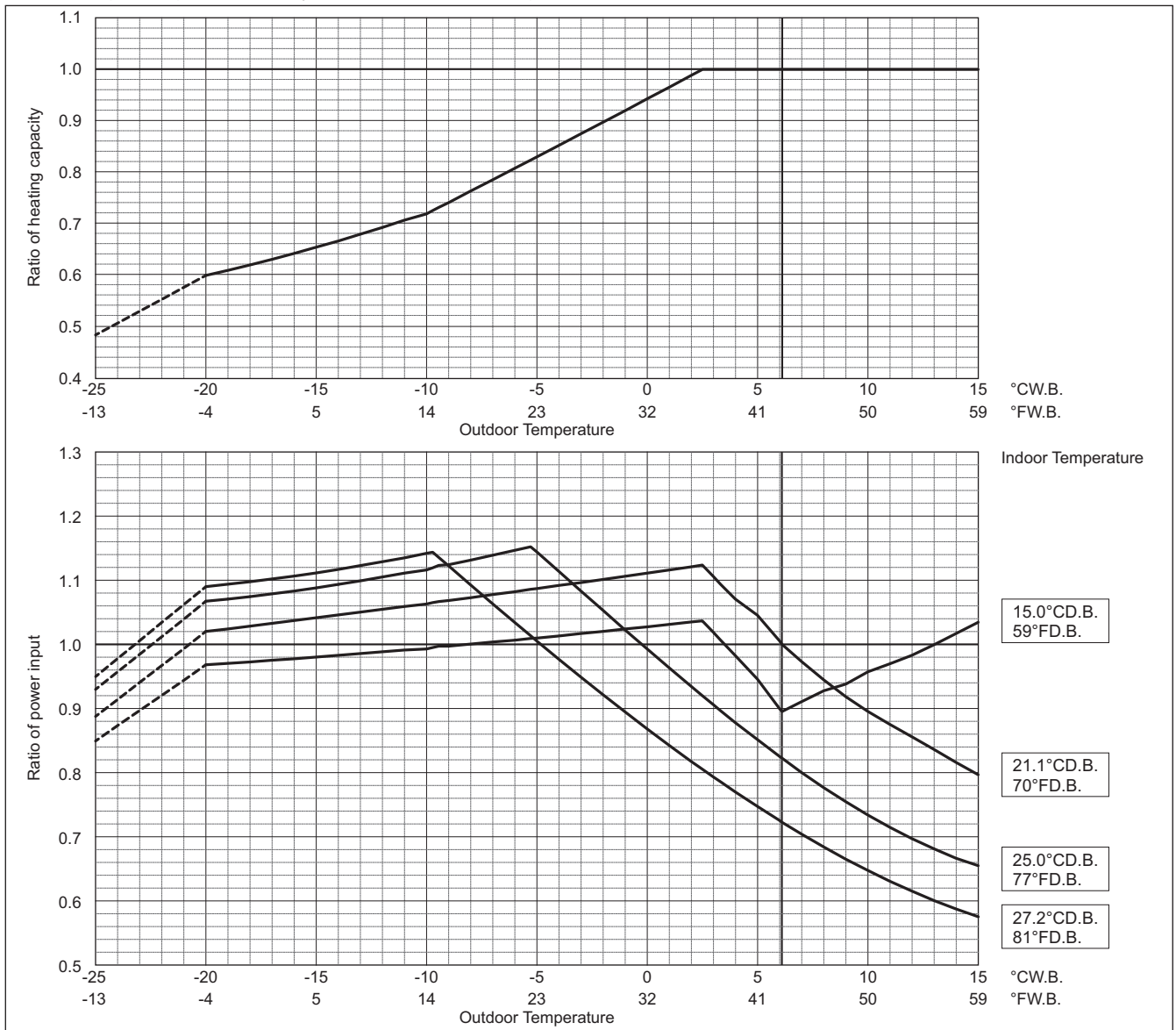
PUHY-		P72TKMU/YKMU		P96TKMU/YKMU	
		Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	80,000		108,000	
	kW	23.4		31.7	
Input	kW	5.62		7.47	
	BTU/h	76,000		103,000	
Rated Heating capacity	kW	22.3		30.2	
	Input	kW	5.04	5.36	6.79

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



Outdoor unit temperature correction

To be used to correct outdoor unit only
Outdoor unit capacity is NOT affected by the indoor temperature.
Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

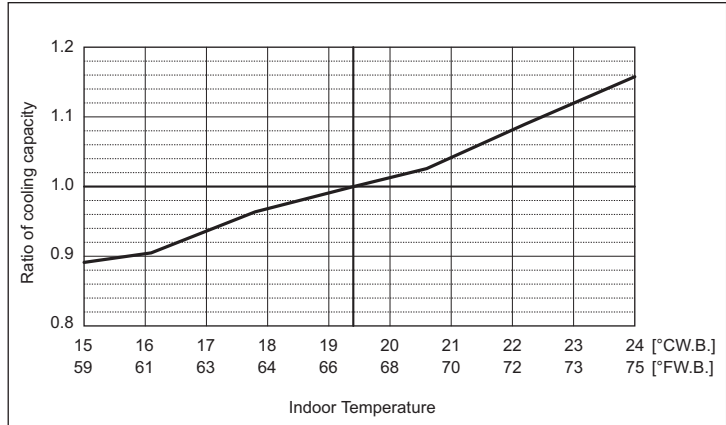


Values in the heating temperature correction diagram in the range below -20°C (-4°F) are reference values and not guaranteed values. Do not use these reference values for selecting outdoor unit models.
When using the units at outdoor temperatures below -20°C (-4°F), install a backup heater.

PUHY-	P120TKMU/YKMU		
	Non-Ducted	Ducted	
Nominal cooling capacity	BTU/h	12,000	
	kW	35.2	
	Input kW	9.09	
Rated cooling capacity	BTU/h	114,000	
	kW	33.4	
	Input kW	8.56	8.27

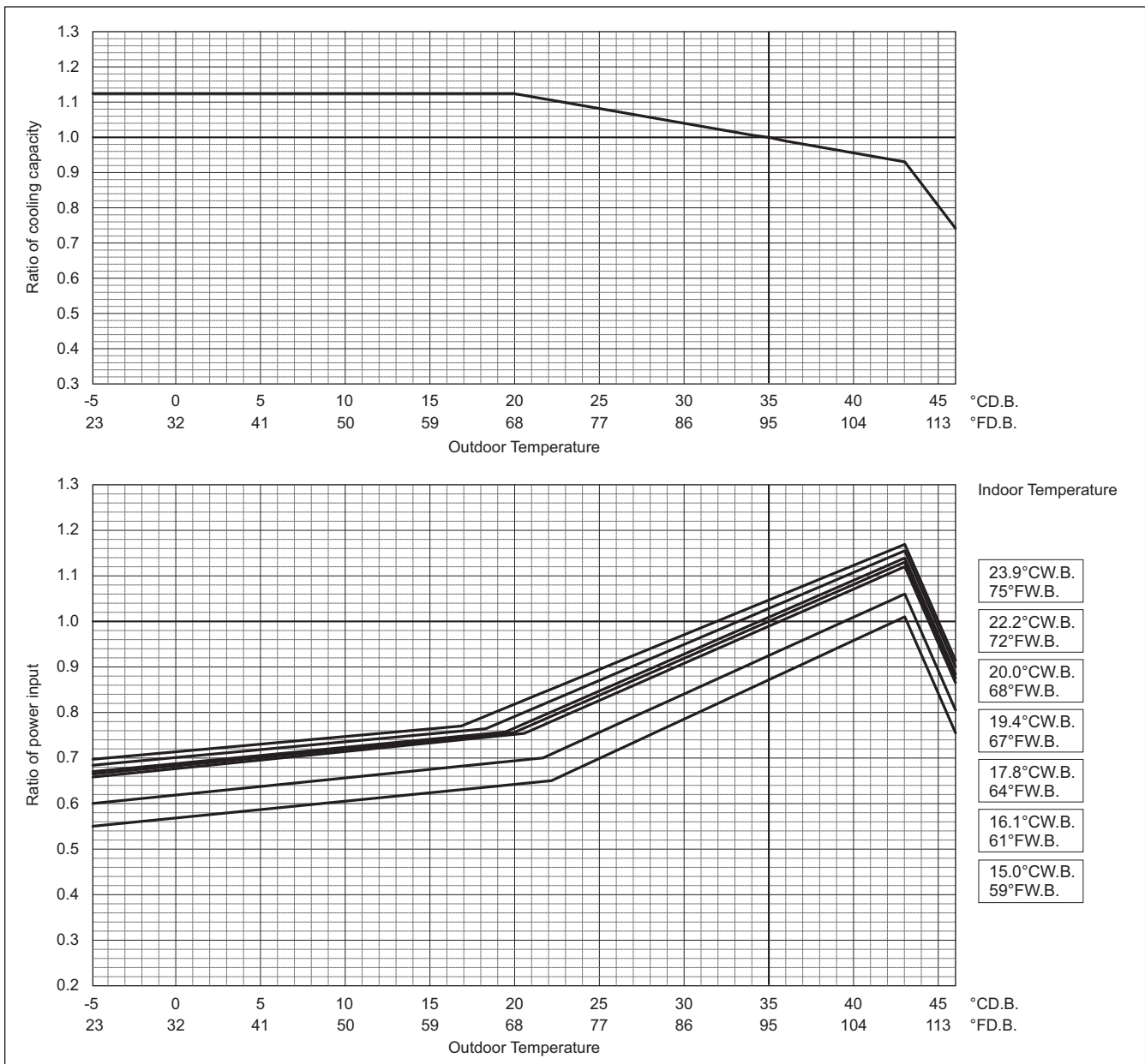
Indoor unit temperature correction

To be used to correct indoor unit capacity only



Outdoor unit temperature correction

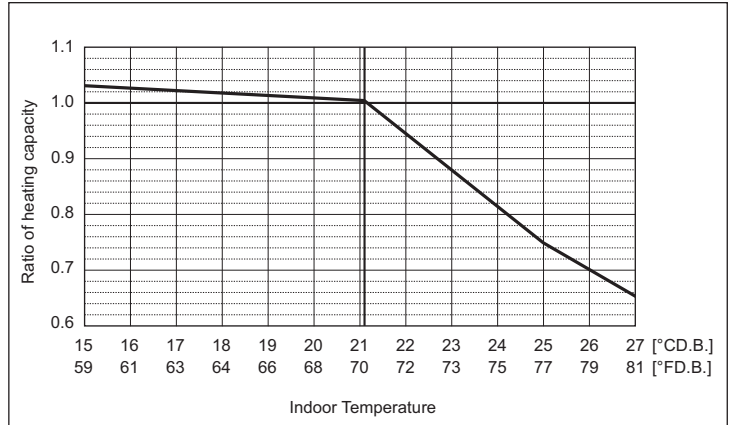
To be used to correct outdoor unit only
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 Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.



PUHY-		P120TKMU/YKMU	
		Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	135,000	
	kW	39.6	
	Input kW	10.28	
Rated Heating capacity	BTU/h	129,000	
	kW	37.8	
	Input kW	9.46	9.57

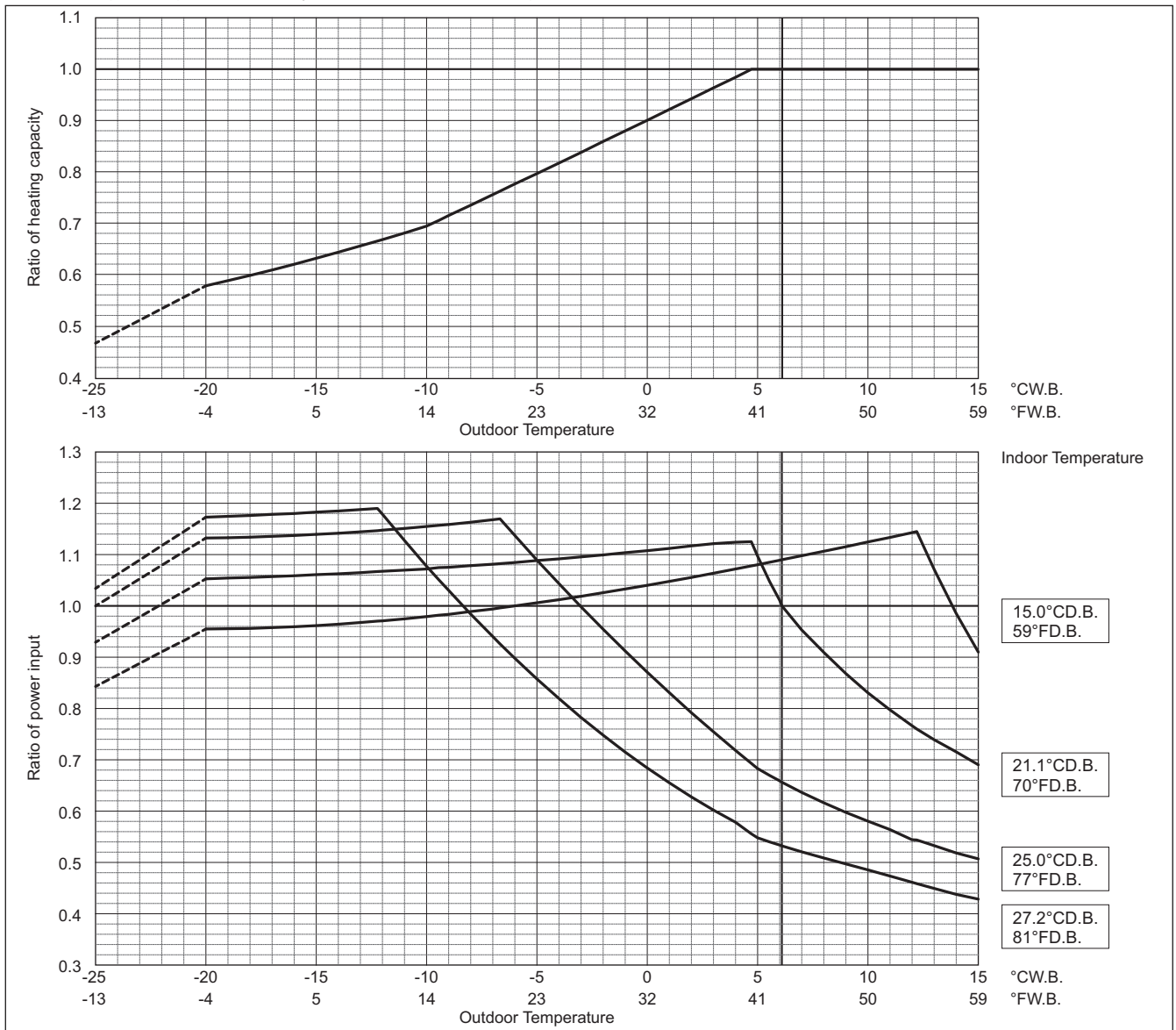
Indoor unit temperature correction

To be used to correct indoor unit capacity only



Outdoor unit temperature correction

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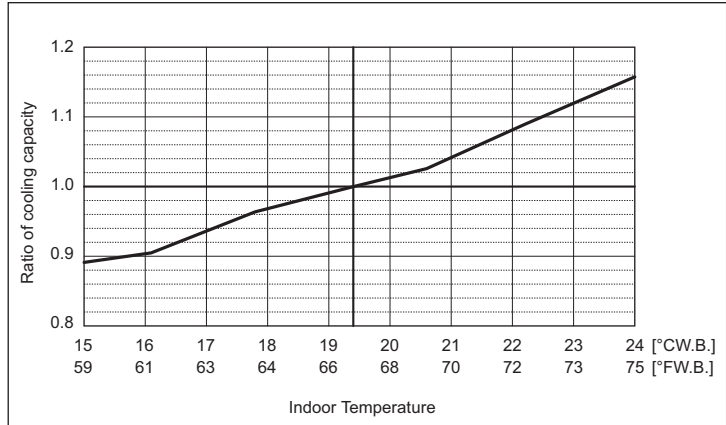
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8. CAPACITY TABLES

PUHY-		P144TKMU/YKMU	
		Non-Ducted	Ducted
Nominal cooling capacity	BTU/h	144,000	
	kW	42.2	
	Input kW	11.84	
Rated cooling capacity	BTU/h	137,000	
	kW	40.2	
	Input kW	11.13	10.79

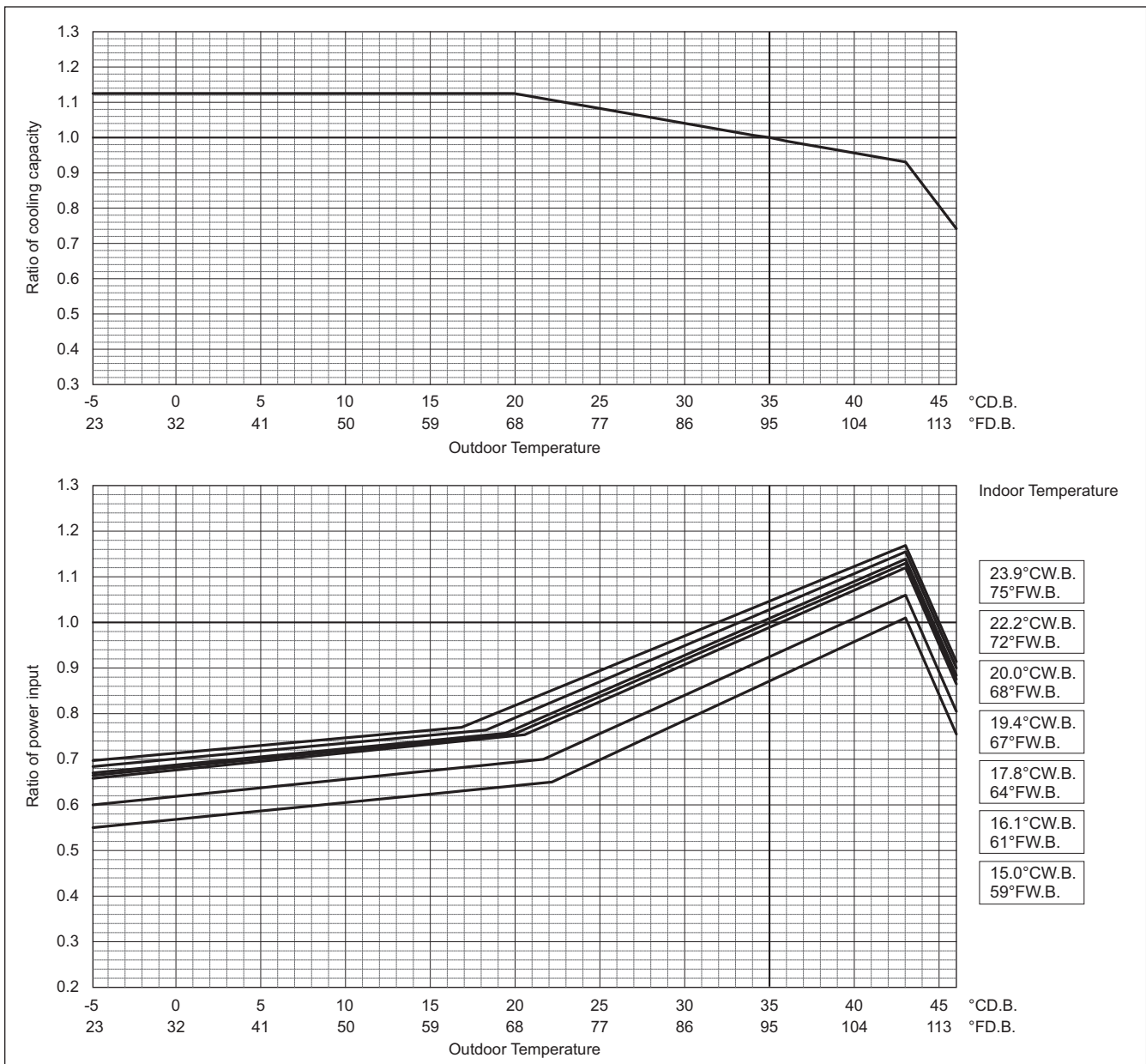
Indoor unit temperature correction

To be used to correct indoor unit capacity only



Outdoor unit temperature correction

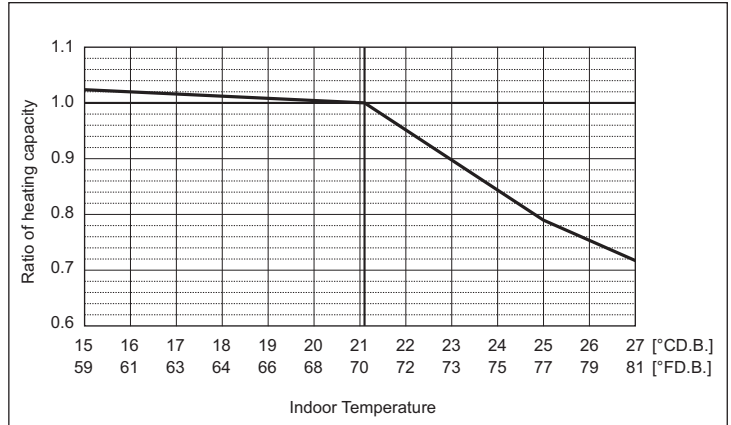
To be used to correct outdoor unit only
 Outdoor unit capacity is NOT affected by the indoor temperature.
 Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.



PUHY-		P144TKMU/YKMU	
		Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	160,000	
	kW	46.9	
	Input kW	12.47	
Rated Heating capacity	BTU/h	152,000	
	kW	44.5	
	Input kW	11.49	11.61

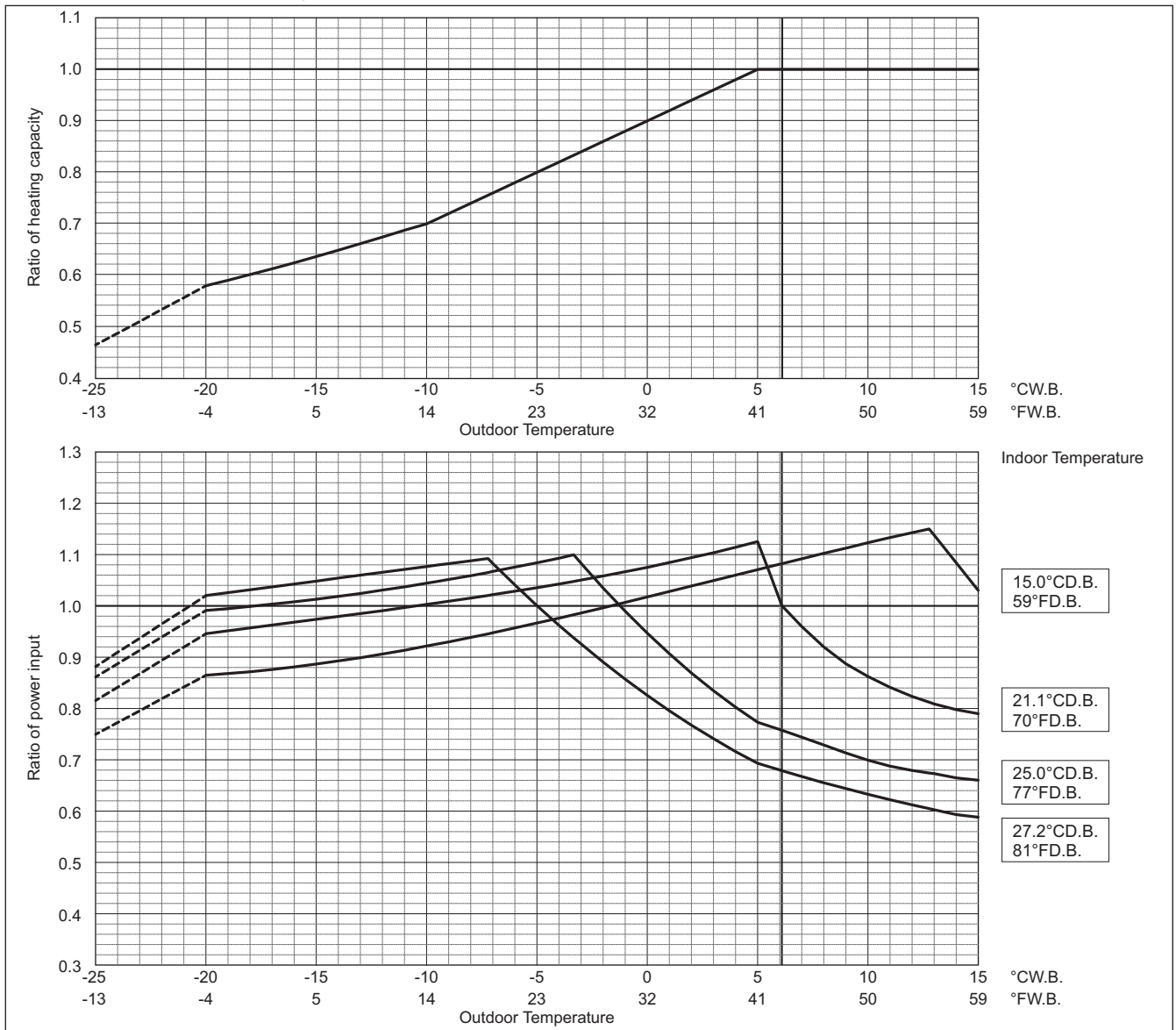
Indoor unit temperature correction

To be used to correct indoor unit capacity only



Outdoor unit temperature correction

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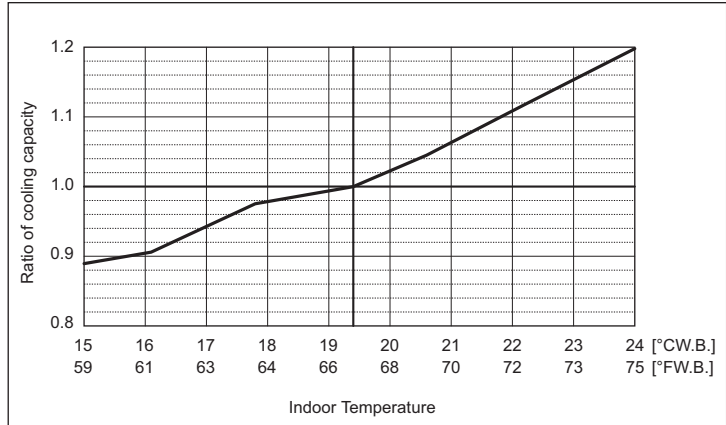
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8. CAPACITY TABLES

PUHY-	P144YSKMU		P168TSKMU/YSKMU		
	Non-Ducted	Ducted	Non-Ducted	Ducted	
Nominal cooling capacity	BTU/h	144,000	168,000		
	kW	42.2	49.2		
Rated cooling capacity	BTU/h	137,000	161,000		
	kW	40.2	47.2		
Input	kW	9.89	9.68	11.95	11.58

Indoor unit temperature correction

To be used to correct indoor unit capacity only



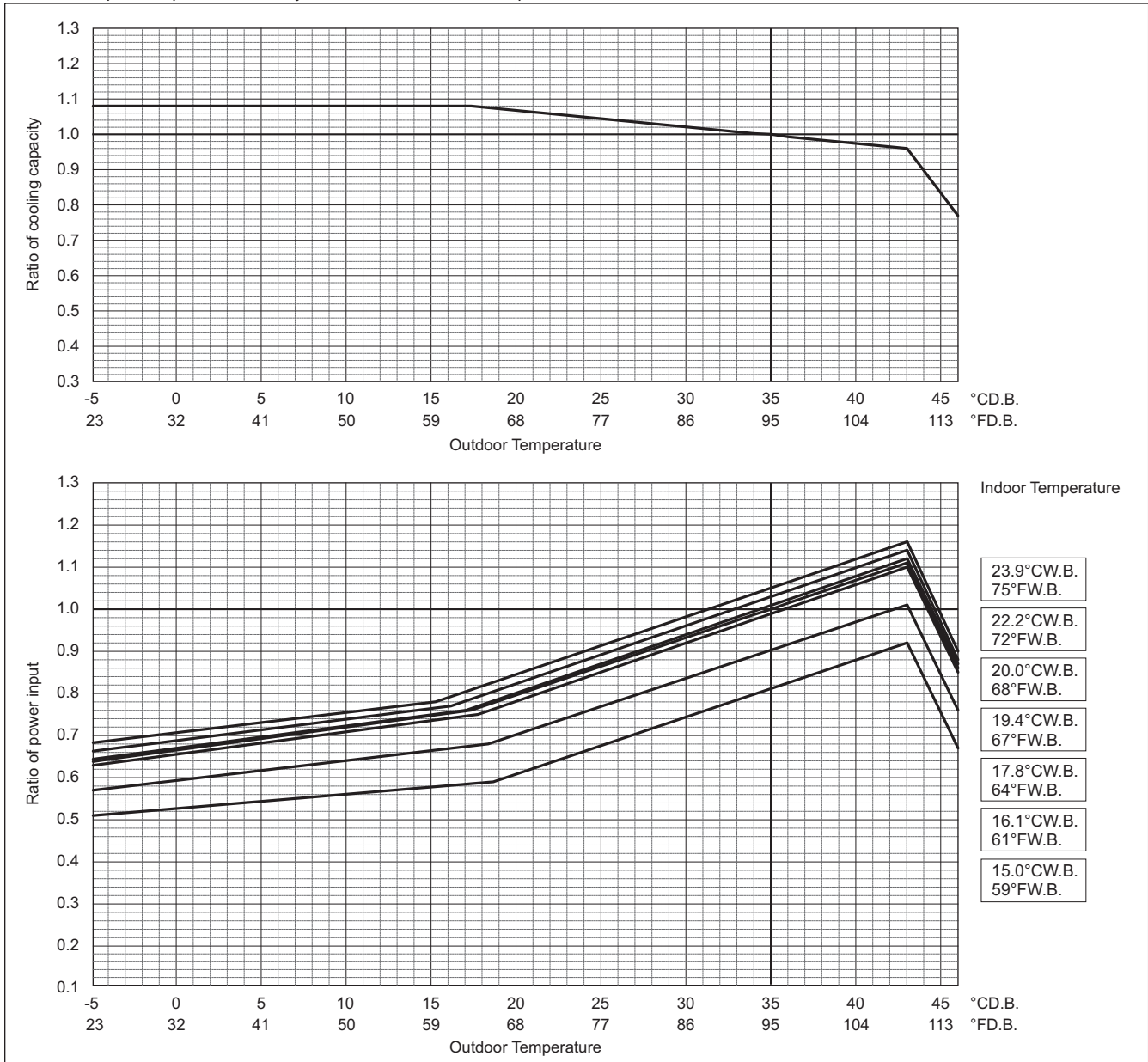
PUHY-	P192TSKMU/YSKMU		
	Non-Ducted	Ducted	
Nominal cooling capacity	BTU/h	192,000	
	kW	56.3	
Rated cooling capacity	BTU/h	183,000	
	kW	53.6	
Input	kW	14.04	13.39

Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

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

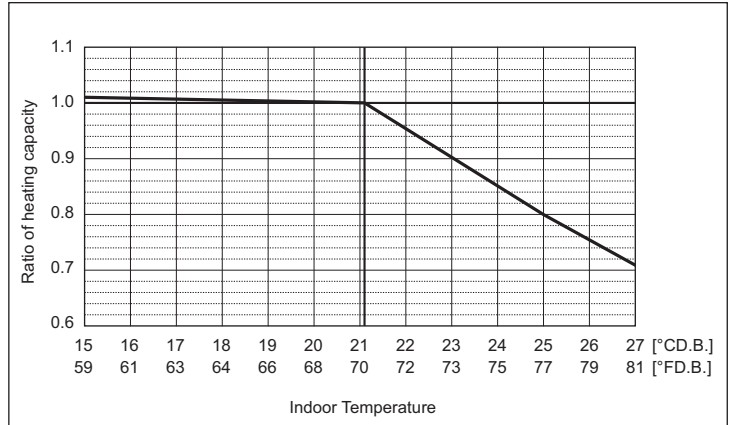


PUHY-		P144YSKMU		P168TSKMU/YSKMU	
		Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	160,000		188,000	
	kW	46.9		55.1	
Input	kW	11.68		14.02	
	BTU/h	152,000		179,000	
Rated Heating capacity	kW	44.5		52.5	
	Input kW	10.79	10.84	13.16	12.80

PUHY-		P192TSKMU/YSKMU	
		Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	215,000	
	kW	63.0	
Input	kW	16.91	
	BTU/h	205,000	
Rated Heating capacity	kW	60.1	
	Input kW	16.00	15.31

Indoor unit temperature correction

To be used to correct indoor unit capacity only

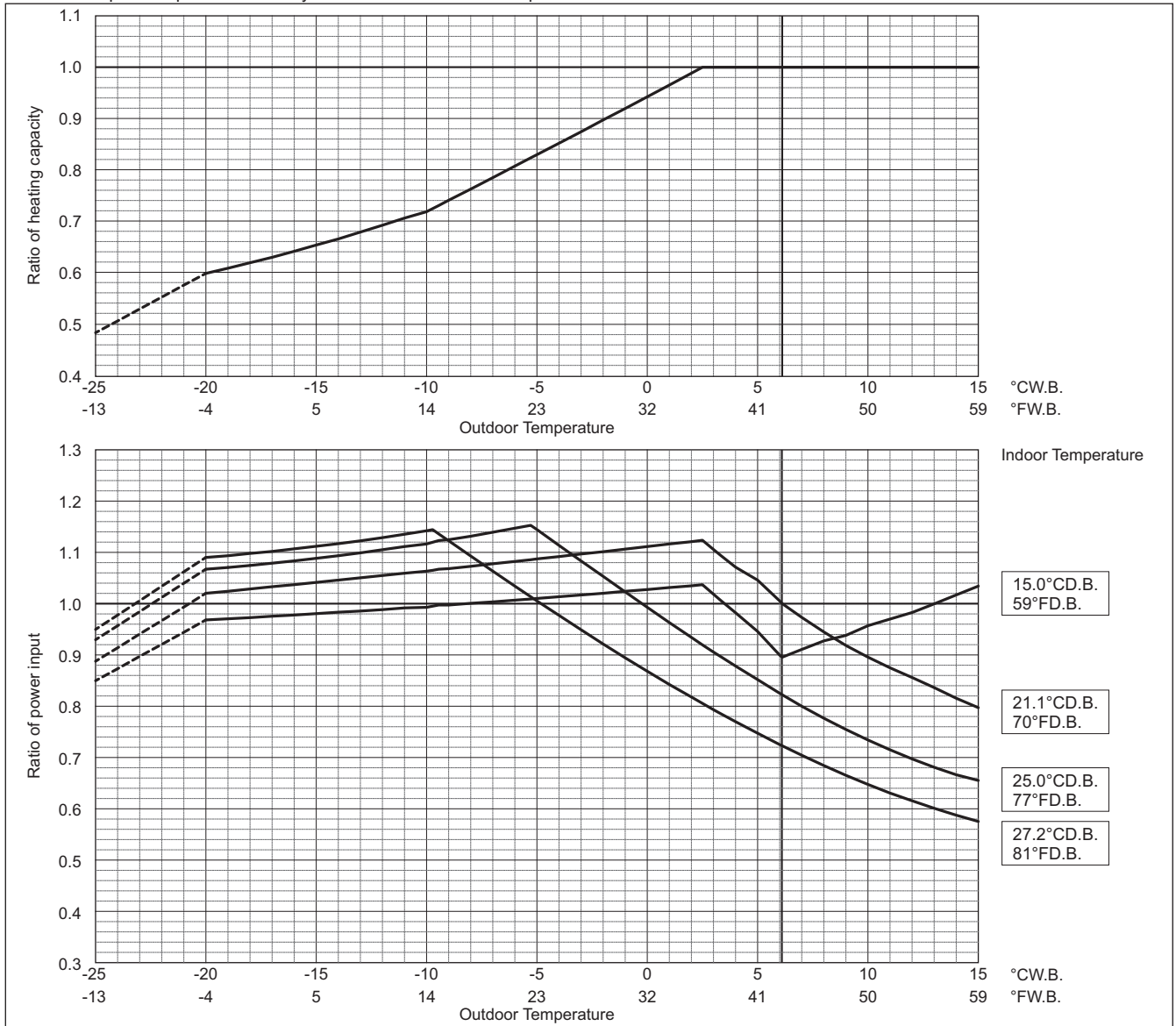


Outdoor unit temperature correction

To be used to correct outdoor unit only

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



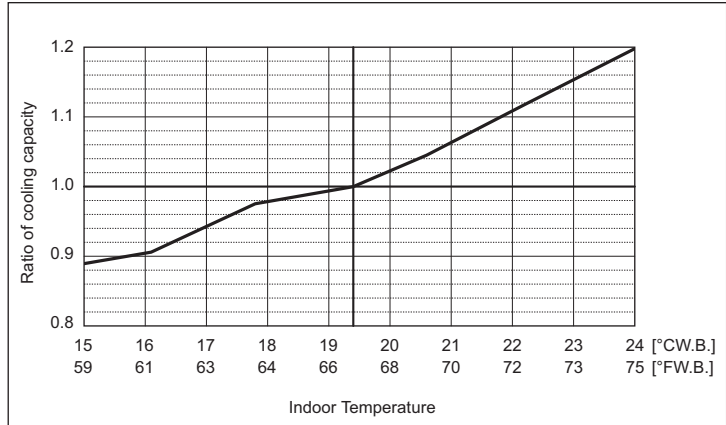
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 When using the units at outdoor temperatures below -20°C (-4°F), install a backup heater.

8. CAPACITY TABLES

PUHY-	P216TSKMU/YSKMU		P240TSKMU/YSKMU		
	Non-Ducted	Ducted	Non-Ducted	Ducted	
Nominal cooling capacity	BTU/h	216,000		240,000	
	kW	63.3		70.3	
Input	kW	16.90		19.12	
	BTU/h	206,000		228,000	
Rated cooling capacity	kW	60.4		66.8	
	Input	kW	16.09	15.21	18.28

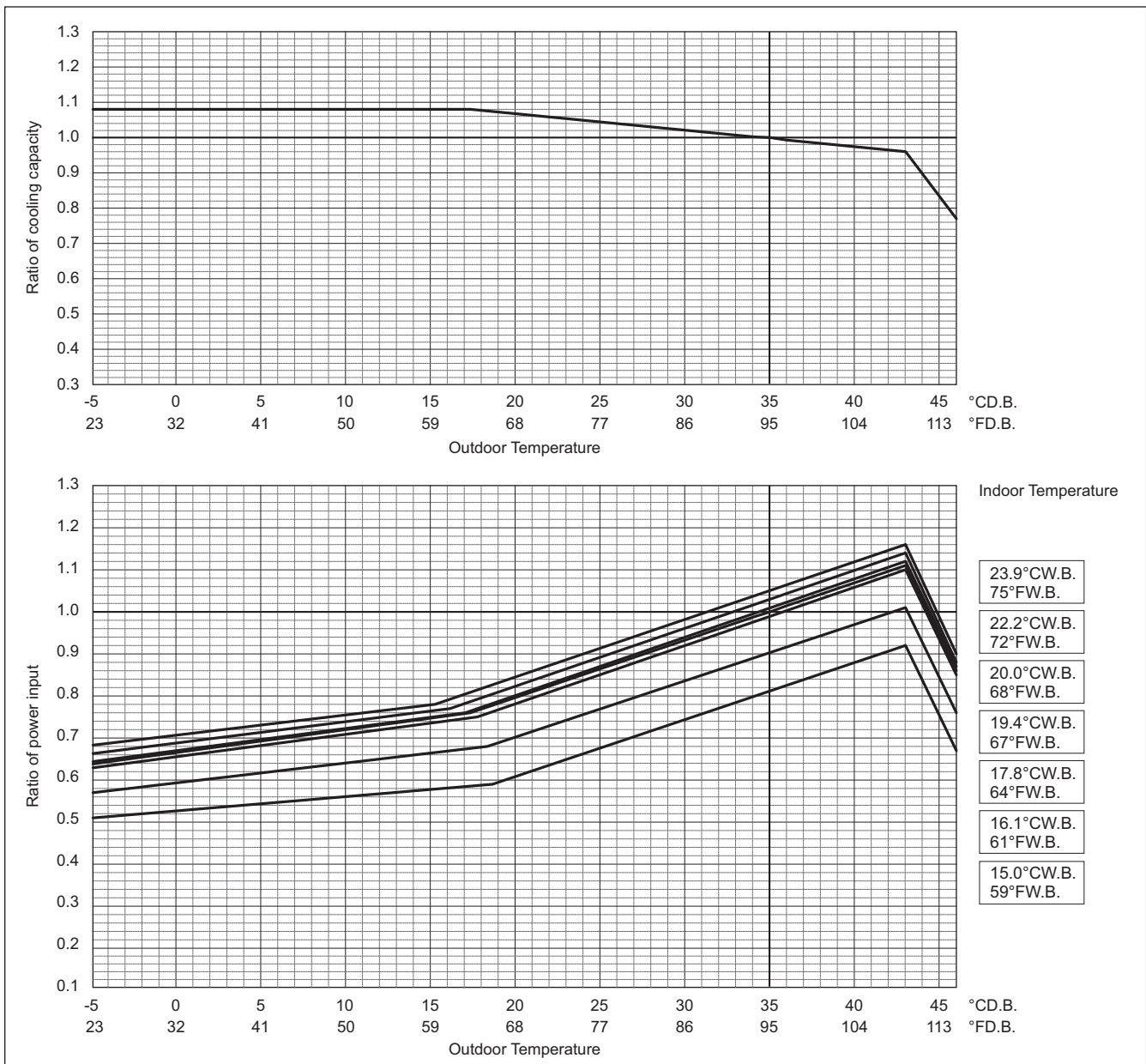
Indoor unit temperature correction

To be used to correct indoor unit capacity only



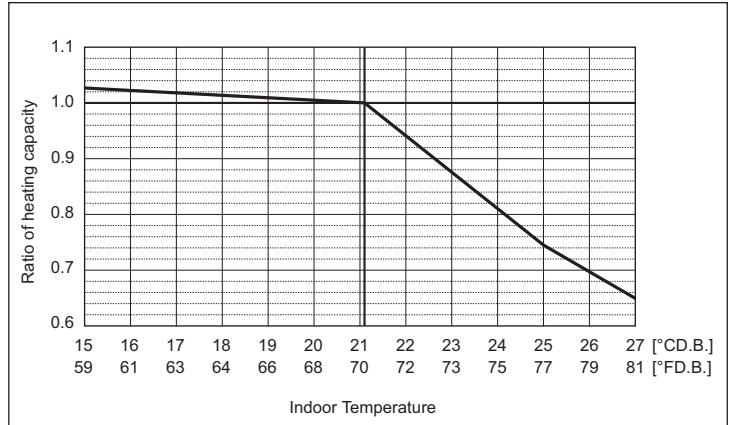
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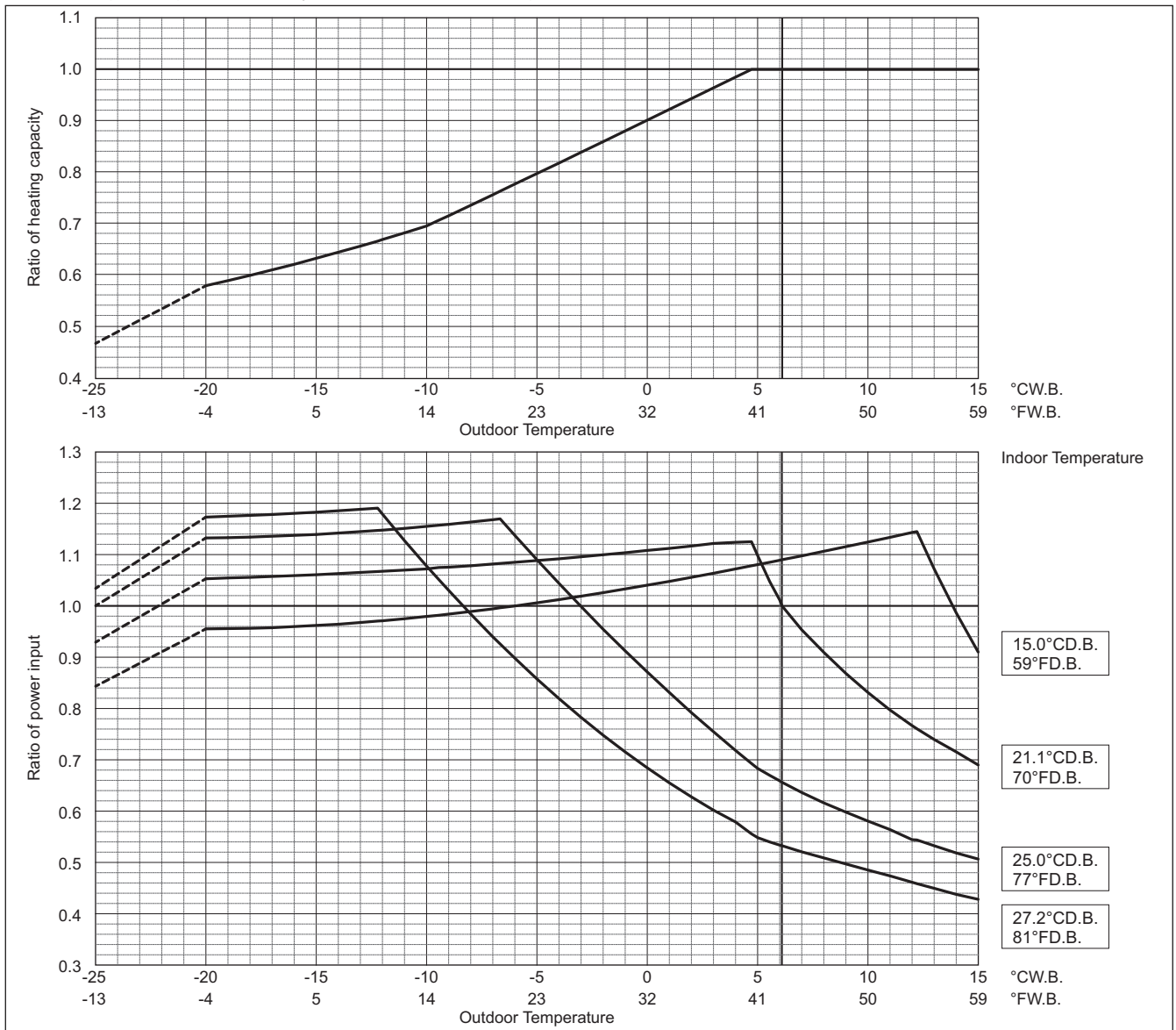
PUHY-		P216TSKMU/YSKMU		P240TSKMU/YSKMU	
		Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	243,000		270,000	
	kW	71.2		79.1	
	Input	19.26		21.86	
Rated Heating capacity	BTU/h	232,000		258,000	
	kW	68.0		75.6	
	Input	18.40	17.27	20.70	19.78

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



Outdoor unit temperature correction

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



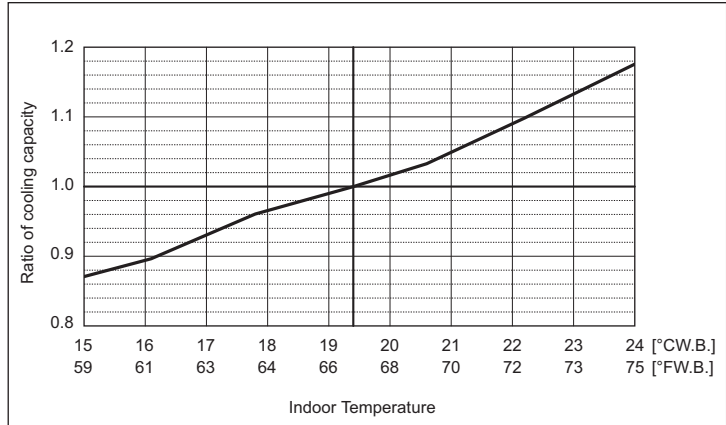
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8. CAPACITY TABLES

PUHY-	P264TSKMU/YSKMU		P288TSKMU/YSKMU		
	Non-Ducted	Ducted	Non-Ducted	Ducted	
Nominal cooling capacity	BTU/h	264,000		288,000	
	kW	77.4		84.4	
Input	kW	20.35		22.39	
	BTU/h	252,000		275,000	
Rated cooling capacity	kW	73.9		80.6	
	Input	kW	19.39	18.29	21.33

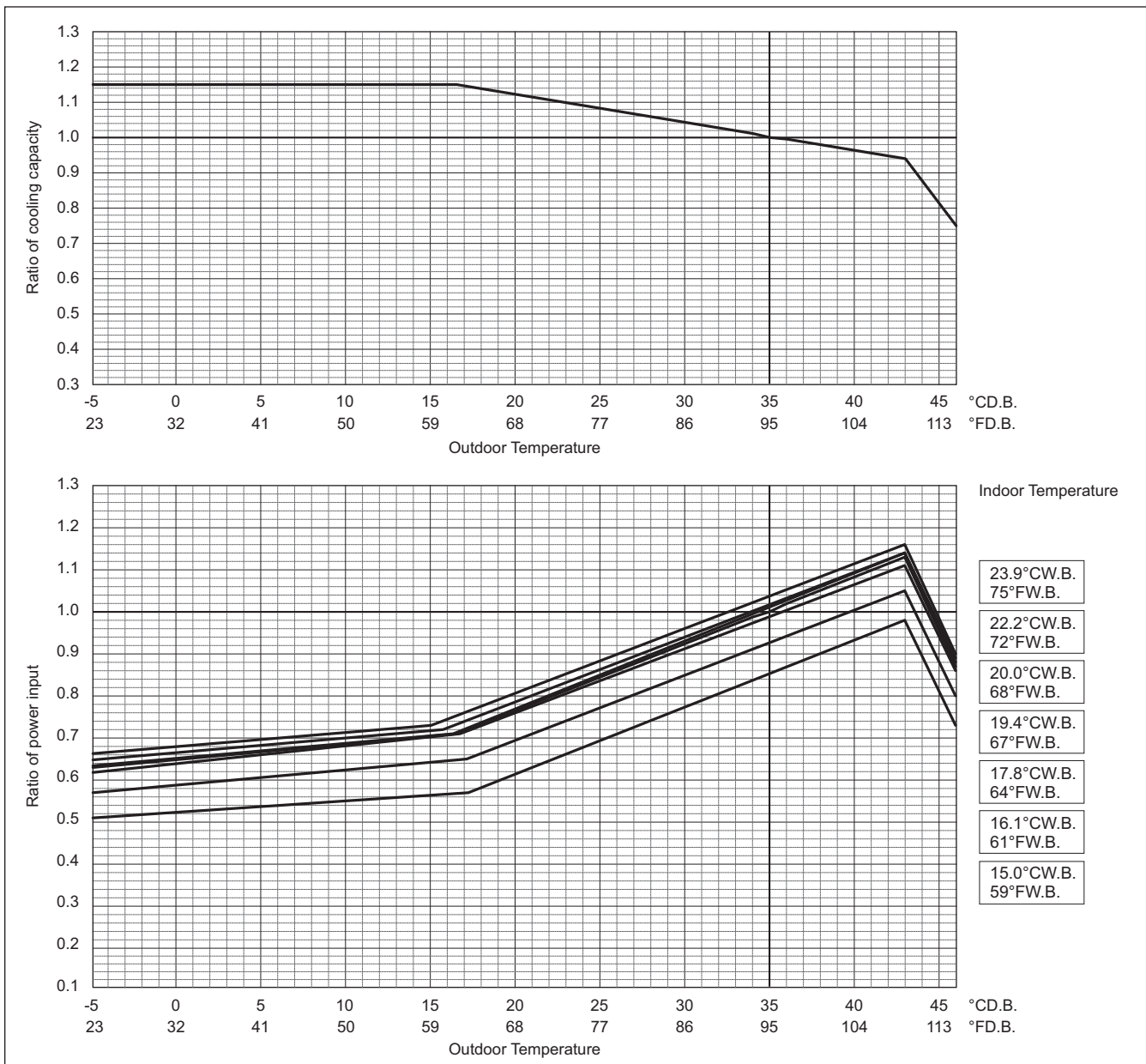
Indoor unit temperature correction

To be used to correct indoor unit capacity only



Outdoor unit temperature correction

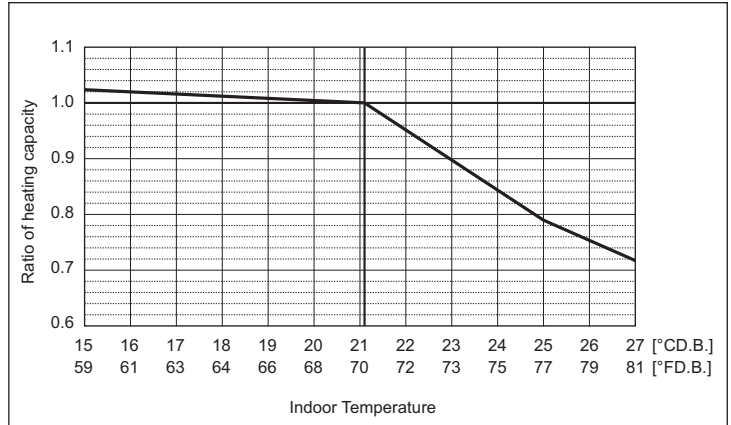
To be used to correct outdoor unit only
 Outdoor unit capacity is NOT affected by the indoor temperature.
 Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.



PUHY-		P264TSKMU/YSKMU		P288TSKMU/YSKMU	
		Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	295,000		323,000	
	kW	86.5		94.7	
	Input kW	23.11		25.36	
Rated Heating capacity	BTU/h	281,000		308,000	
	kW	82.4		90.3	
	Input kW	22.07	20.72	24.27	22.69

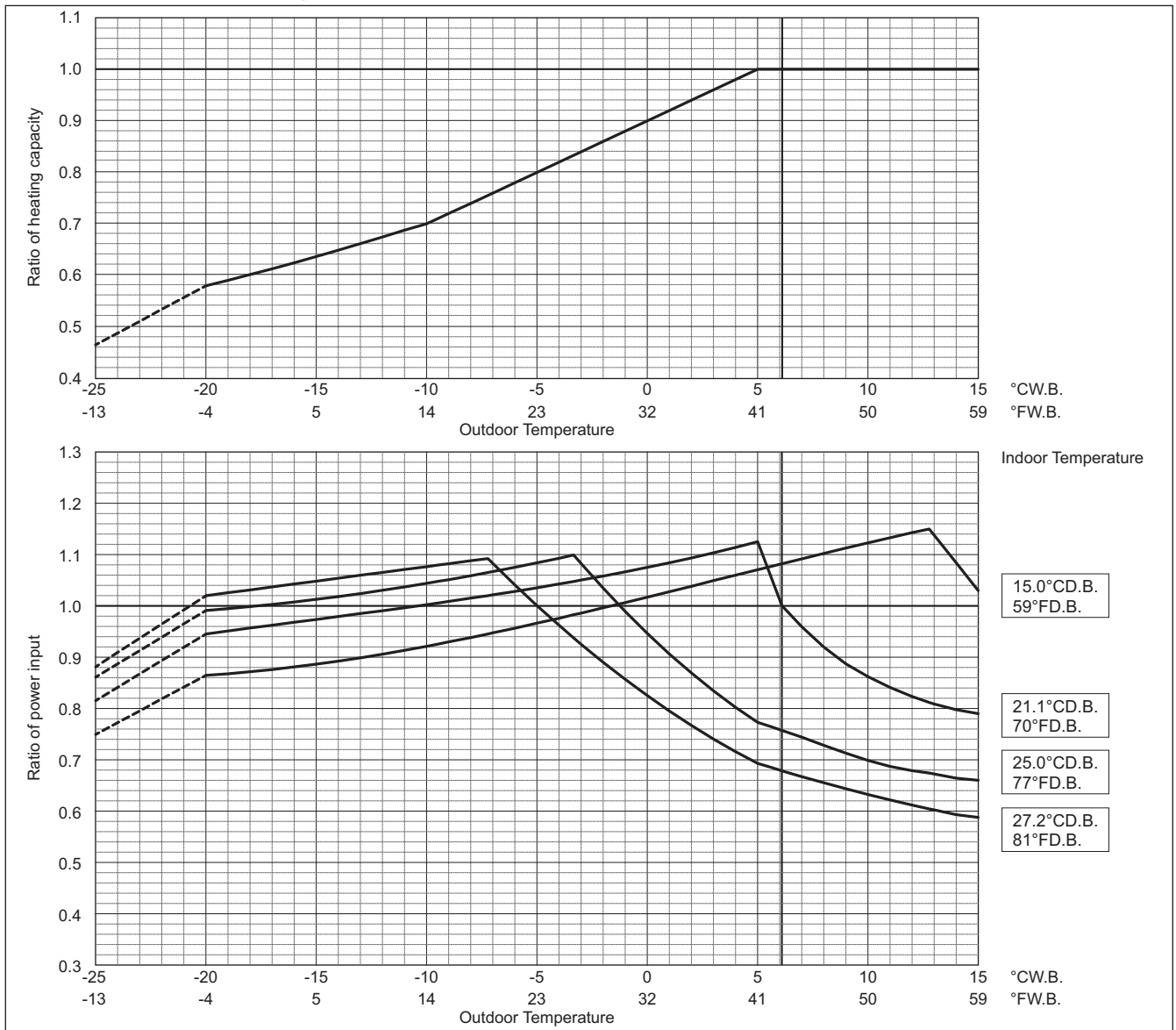
Indoor unit temperature correction

To be used to correct indoor unit capacity only



Outdoor unit temperature correction

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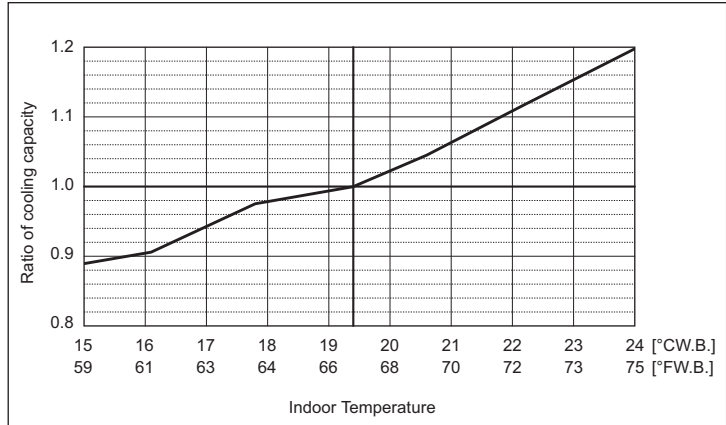
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 When using the units at outdoor temperatures below -20°C (-4°F), install a backup heater.

8. CAPACITY TABLES

PUHY-	P312TSKMU/YSKMU		P336TSKMU/YSKMU	
	Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal cooling capacity	BTU/h	312,000		336,000
	kW	91.4		98.5
Input	kW	24.87		27.21
	BTU/h	297,000		320,000
Rated cooling capacity	kW	87.0		93.8
	Input kW	23.70	22.36	25.82

Indoor unit temperature correction

To be used to correct indoor unit capacity only



Y (K)

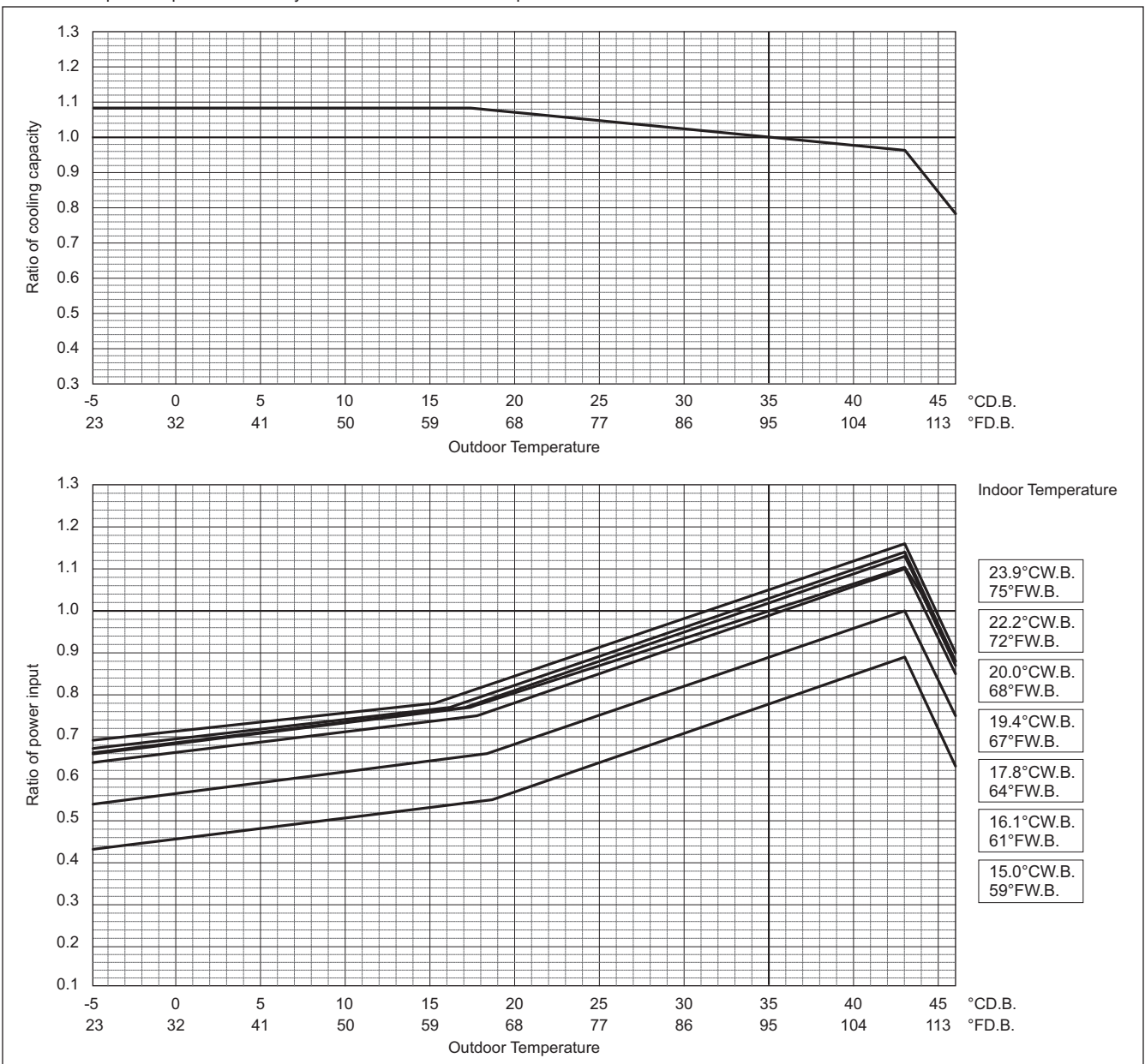
PUHY-	P360TSKMU/YSKMU		
	Non-Ducted	Ducted	
Nominal cooling capacity	BTU/h	360,000	
	kW	105.5	
Input	kW	29.65	
	BTU/h	342,000	
Rated cooling capacity	kW	100.2	
	Input kW	28.14	26.77

Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

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

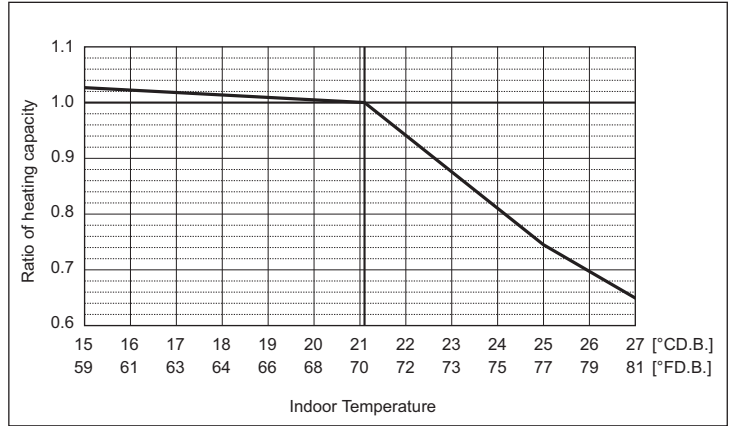


PUHY-		P312TSKMU/YSKMU		P336TSKMU/YSKMU	
		Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	350,000		378,000	
	kW	102.6		110.8	
Input	kW	28.71		31.73	
	BTU/h	334,000		361,000	
Rated Heating capacity	kW	97.9		105.8	
	Input kW	27.53	25.64	30.61	28.14

PUHY-		P360TSKMU/YSKMU	
		Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	405,000	
	kW	118.7	
Input	kW	35.39	
	BTU/h	387,000	
Rated Heating capacity	kW	113.4	
	Input kW	34.30	31.23

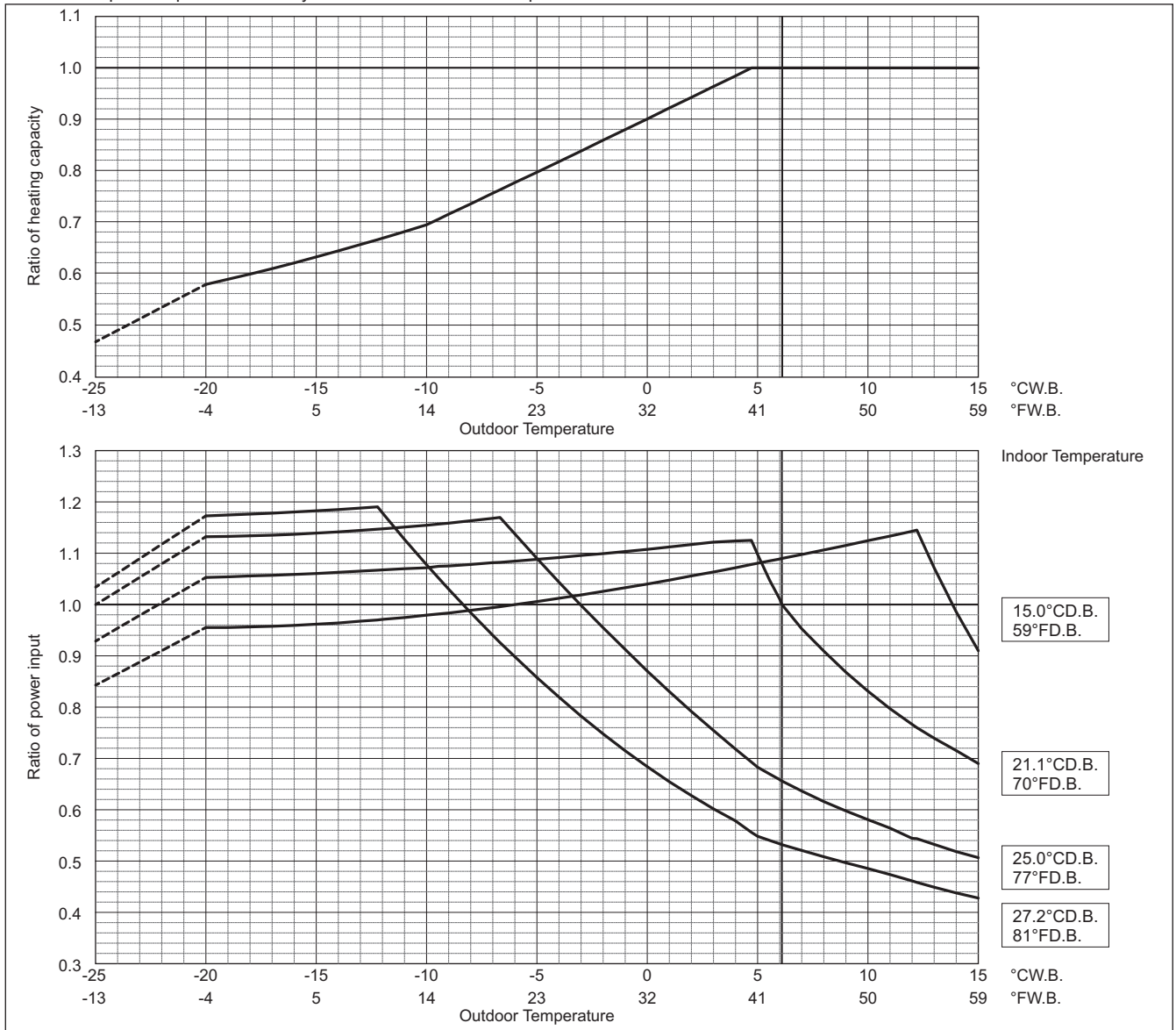
Indoor unit temperature correction

To be used to correct indoor unit capacity only



Outdoor unit temperature correction

To be used to correct outdoor unit only
 Outdoor unit capacity is NOT affected by the indoor temperature.
 Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.



Values in the heating temperature correction diagram in the range below -20°C (-4°F) are reference values and not guaranteed values. Do not use these reference values for selecting outdoor unit models.
 When using the units at outdoor temperatures below -20°C (-4°F), install a backup heater.

8. CAPACITY TABLES

Correction by temperature (High Heating Performance Mode)

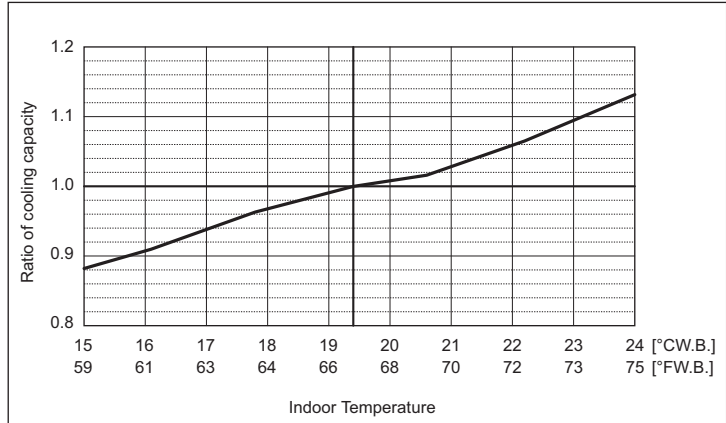
CITY MULTI could have various capacities at different designing temperatures. Using the nominal cooling/heating capacity values and the ratios below, the capacity can be found for various temperatures.

To select high heating performance mode, DipSW 6-2 must be set to ON. (In the low ambient temperature, heating capacity and power input become higher than those under standard mode.)

PUHY-		P72TKMU/YKMU		P96TKMU/YKMU	
		Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal cooling capacity	BTU/h	72,000		96,000	
	kW	21.1		28.1	
Rated cooling capacity	BTU/h	69,000		92,000	
	kW	20.2		27.0	
Input	kW	4.58	4.79	6.35	6.62

Indoor unit temperature correction

To be used to correct indoor unit capacity only

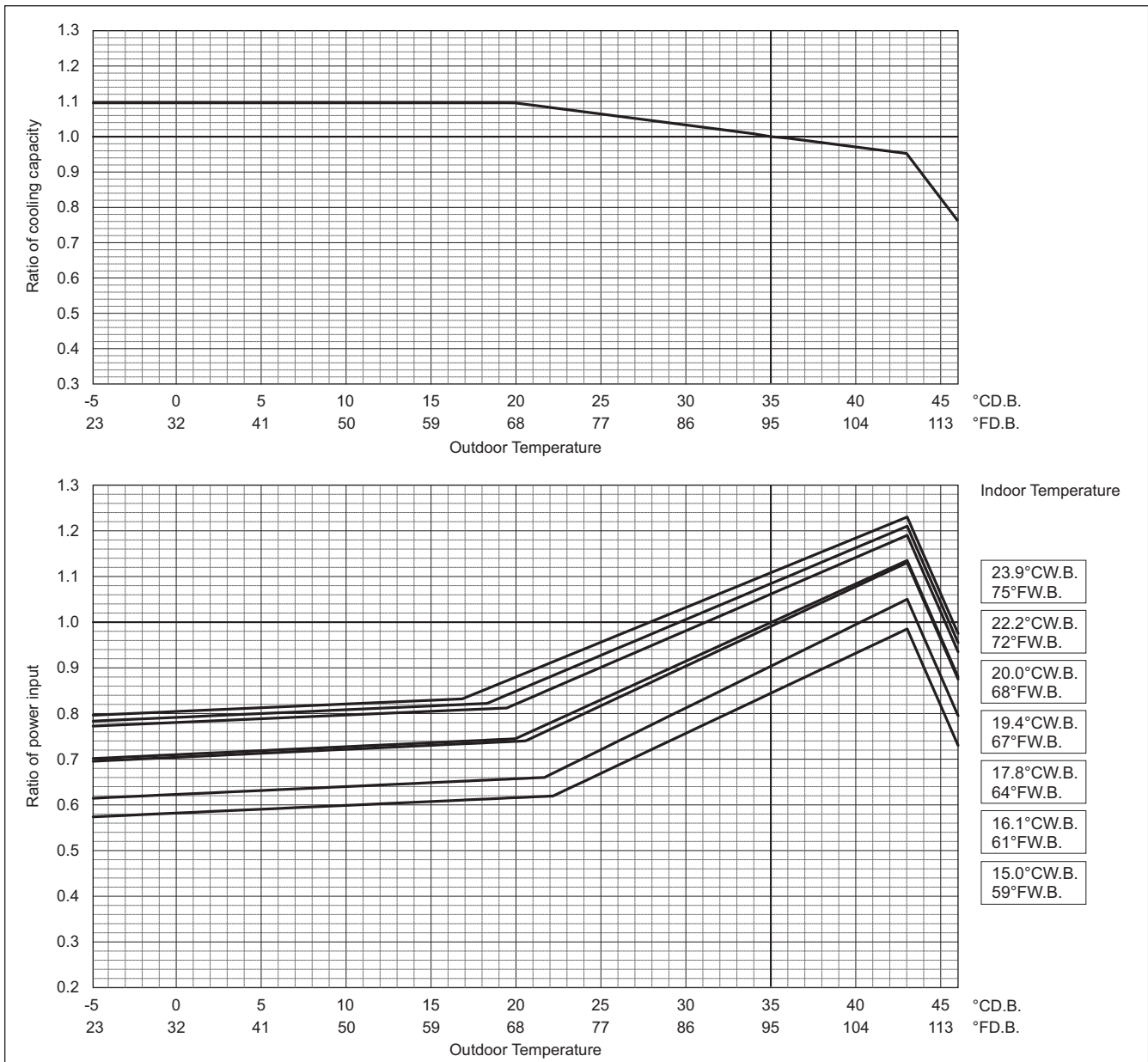


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

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

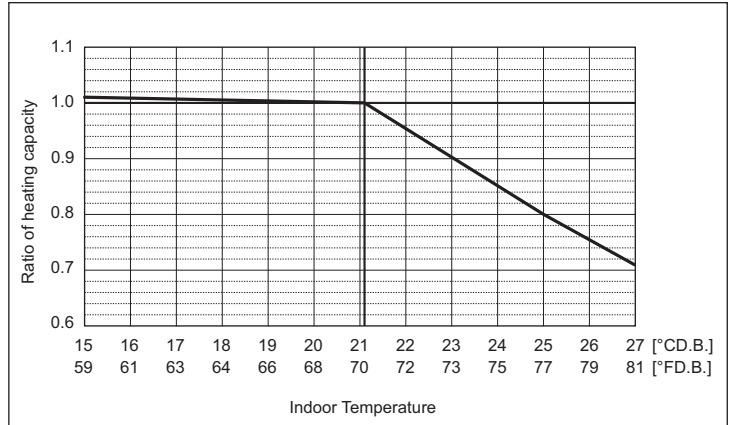


High Heating Performance Mode

PUHY-		P72TKMU/YKMU		P96TKMU/YKMU	
		Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	80,000		108,000	
	kW	23.4		31.7	
Input	kW	5.62		7.47	
	BTU/h	76,000		103,000	
Rated Heating capacity	kW	22.3		30.2	
	Input	kW	5.04	5.36	6.79

Indoor unit temperature correction

To be used to correct indoor unit capacity only

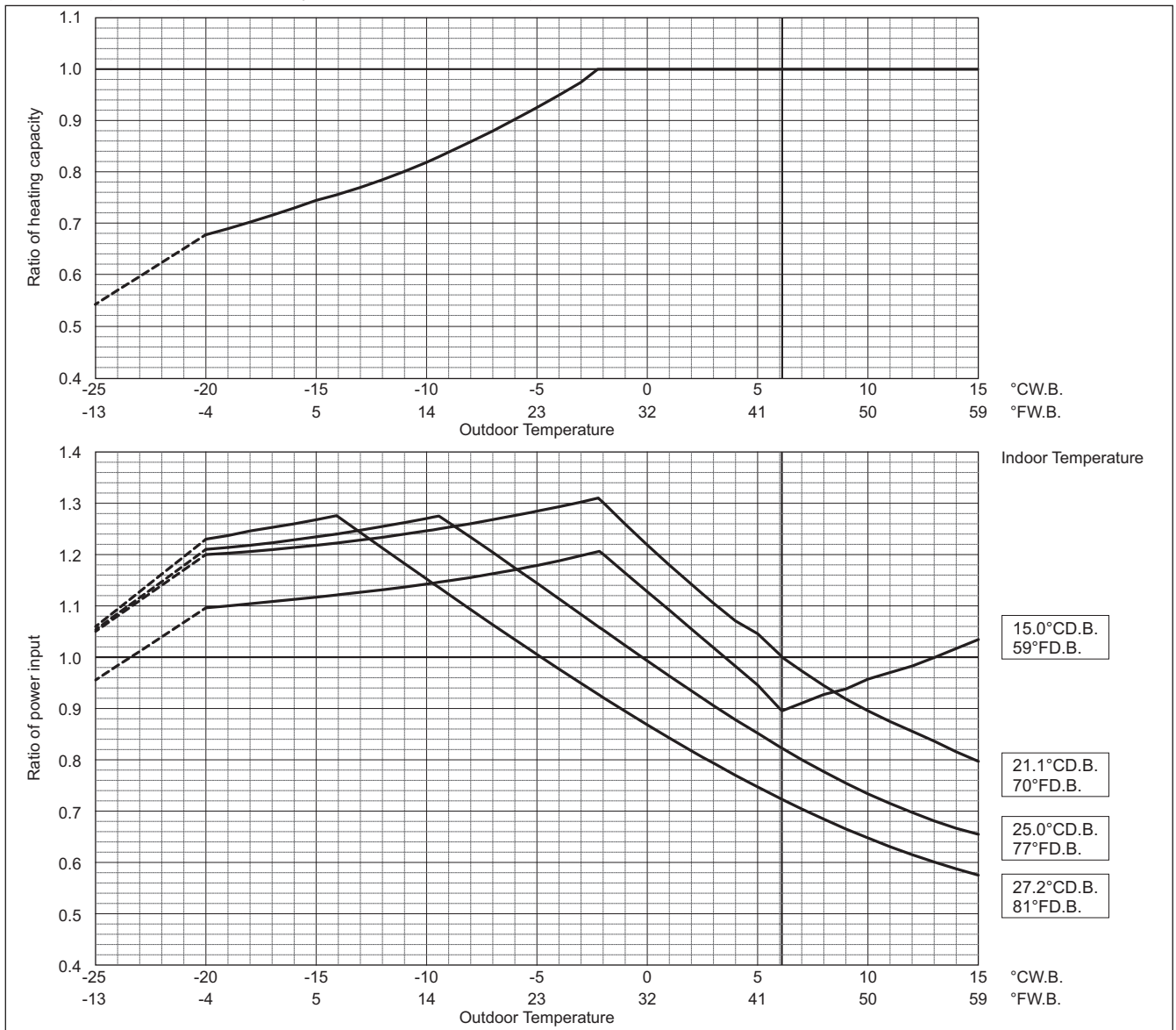


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

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

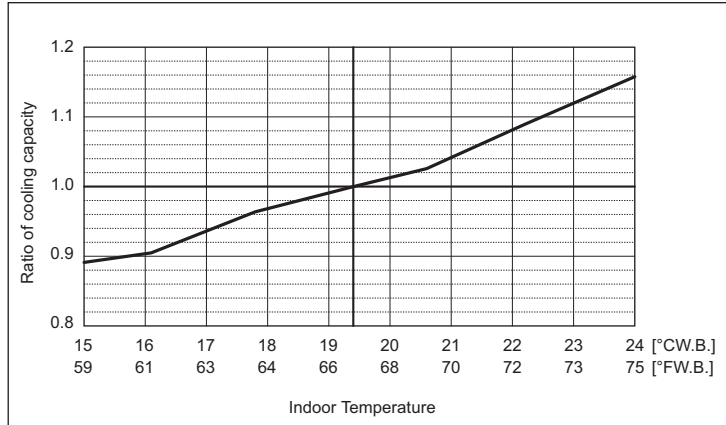


Values in the heating temperature correction diagram in the range below -20°C (-4°F) are reference values and not guaranteed values. Do not use these reference values for selecting outdoor unit models.
 When using the units at outdoor temperatures below -20°C (-4°F), install a backup heater.

PUHY-		P120TKMU/YKMU	
		Non-Ducted	Ducted
Nominal cooling capacity	BTU/h	12,000	
	kW	35.2	
	Input kW	9.09	
Rated cooling capacity	BTU/h	114,000	
	kW	33.4	
	Input kW	8.56	8.27

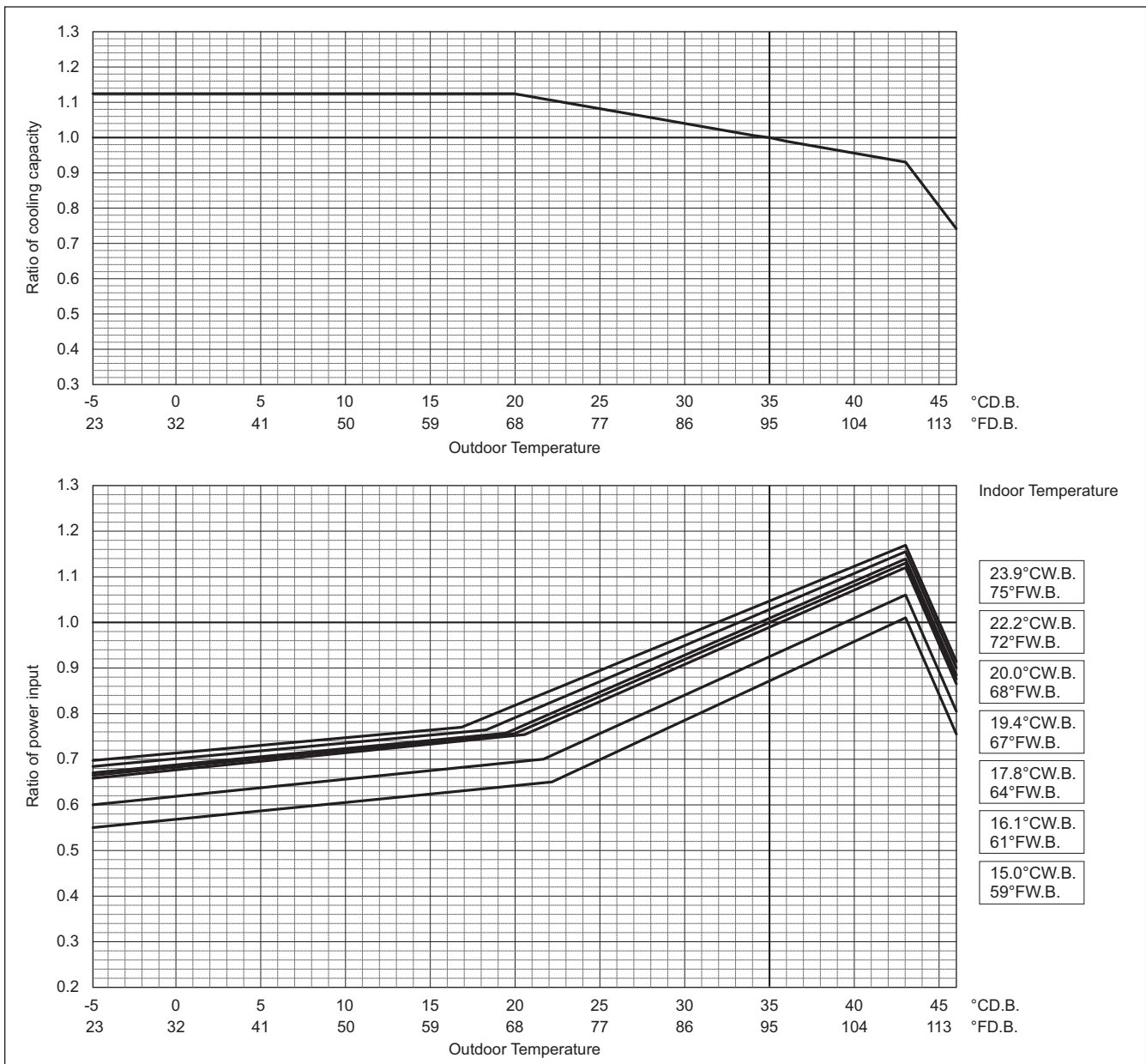
Indoor unit temperature correction

To be used to correct indoor unit capacity only



Outdoor unit temperature correction

To be used to correct outdoor unit only
 Outdoor unit capacity is NOT affected by the indoor temperature.
 Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

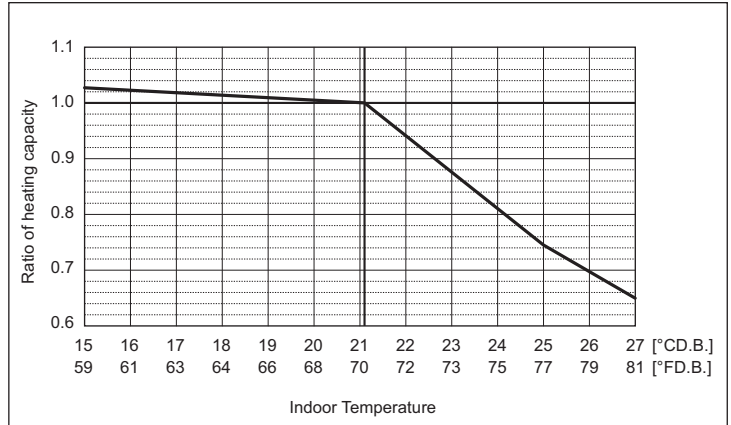


High Heating Performance Mode

PUHY-		P120TKMU/YKMU	
		Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	135,000	
	kW	39.6	
Input	kW	10.28	
	BTU/h	129,000	
Rated Heating capacity	kW	37.8	
	Input	9.46	9.57

Indoor unit temperature correction

To be used to correct indoor unit capacity only

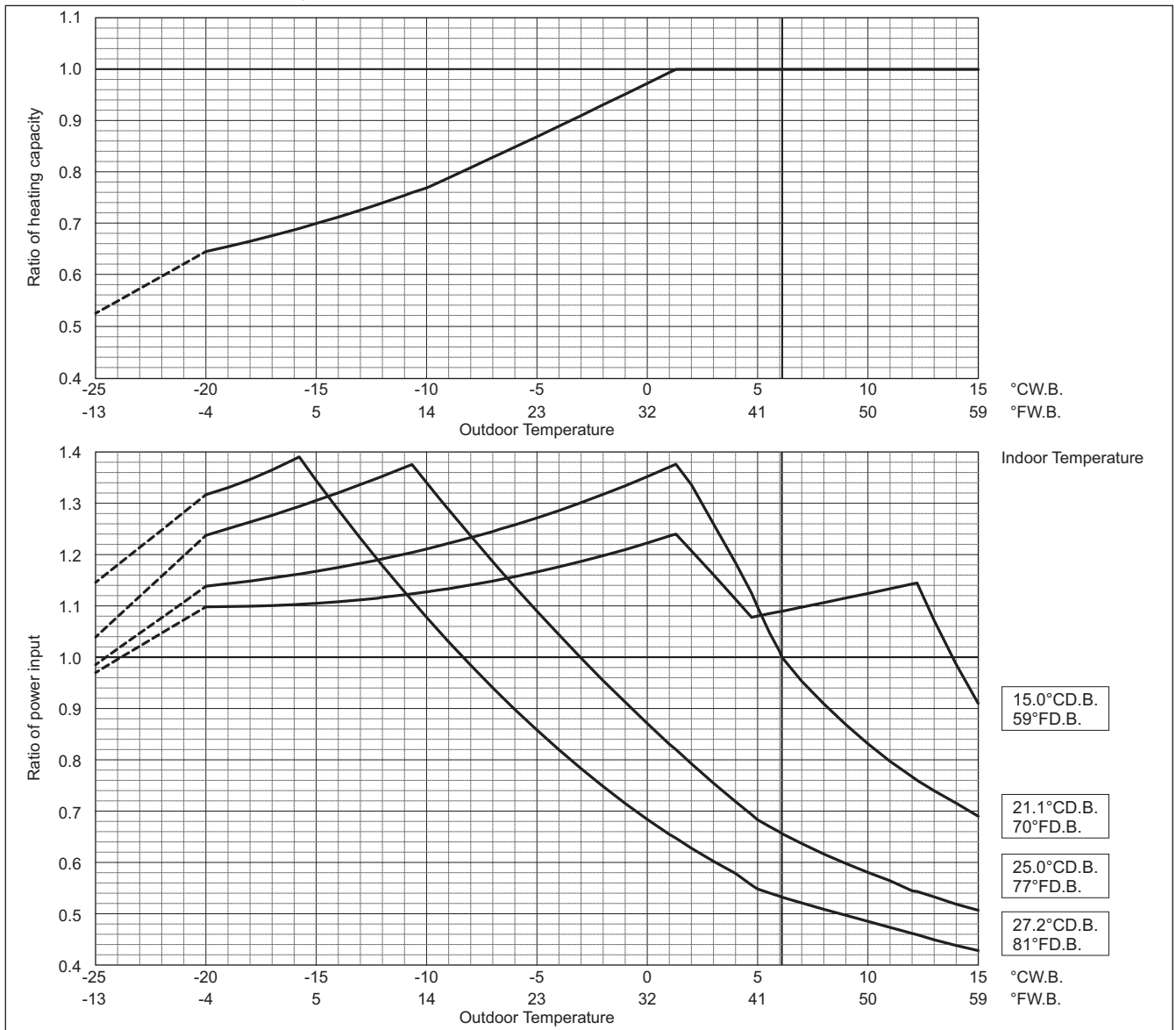


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

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



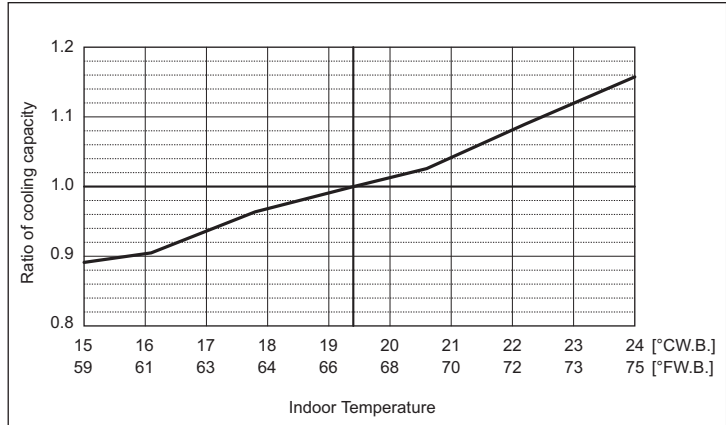
Values in the heating temperature correction diagram in the range below -20°C (-4°F) are reference values and not guaranteed values. Do not use these reference values for selecting outdoor unit models.
 When using the units at outdoor temperatures below -20°C (-4°F), install a backup heater.

8. CAPACITY TABLES

PUHY-		P144TKMU/YKMU	
		Non-Ducted	Ducted
Nominal cooling capacity	BTU/h	144,000	
	kW	42.2	
	Input kW	11.84	
Rated cooling capacity	BTU/h	137,000	
	kW	40.2	
	Input kW	11.13	10.79

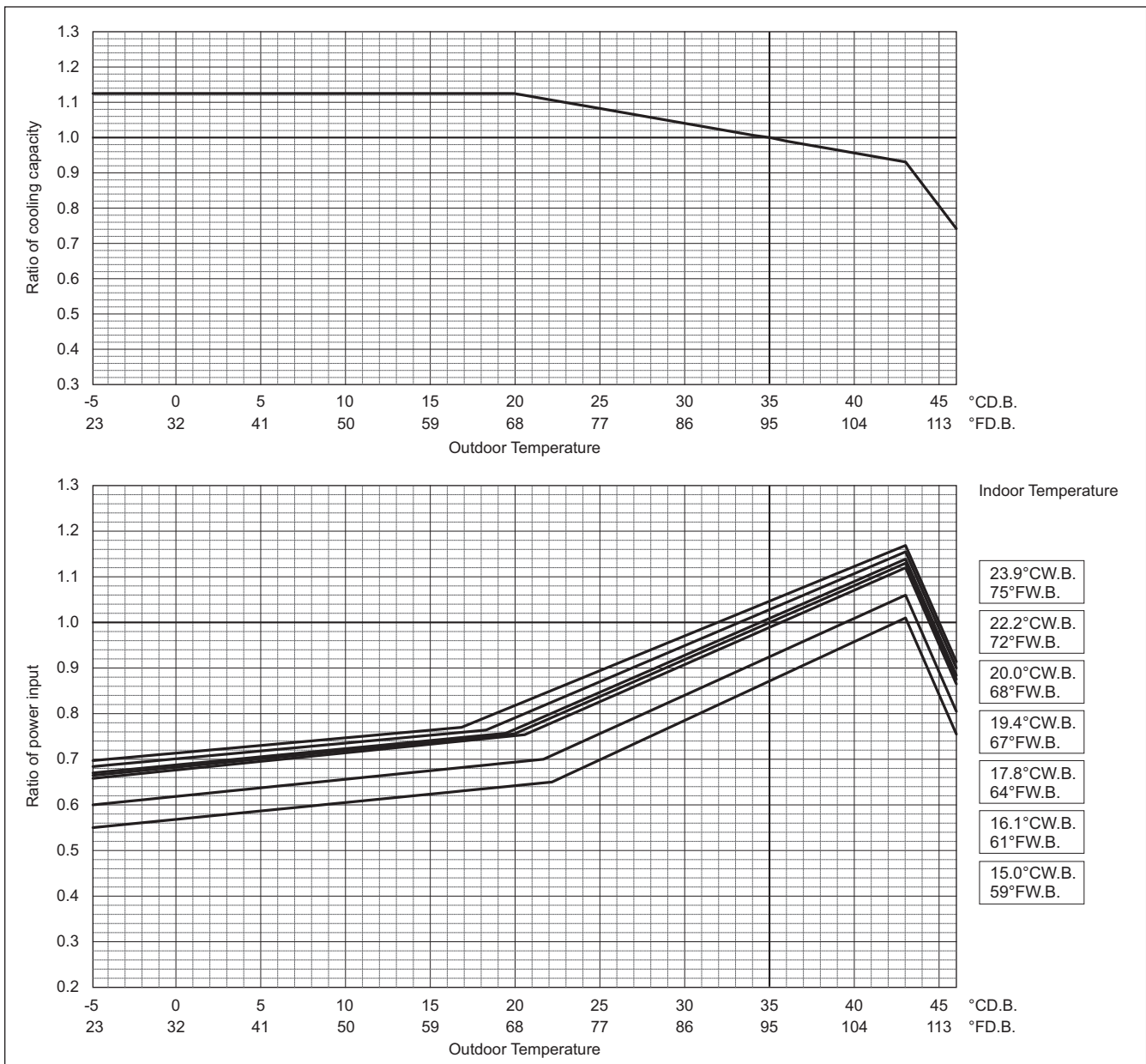
Indoor unit temperature correction

To be used to correct indoor unit capacity only



Outdoor unit temperature correction

To be used to correct outdoor unit only
 Outdoor unit capacity is NOT affected by the indoor temperature.
 Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

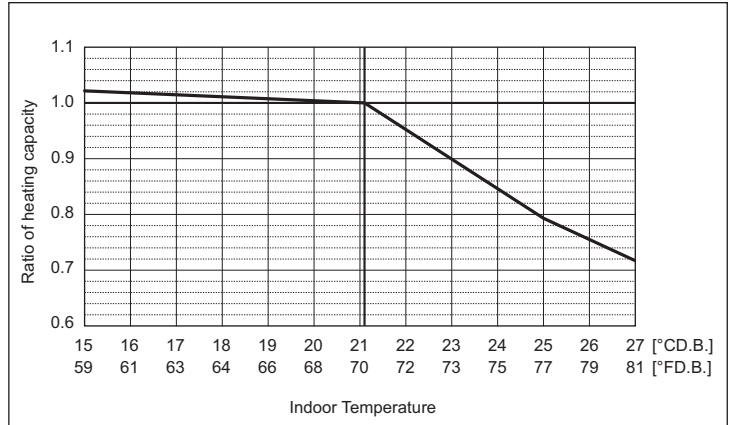


High Heating Performance Mode

PUHY-		P144TKMU/YKMU	
		Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	160,000	
	kW	46.9	
Input	kW	12.47	
	BTU/h	152,000	
Rated Heating capacity	kW	44.5	
	Input	kW	11.49

Indoor unit temperature correction

To be used to correct indoor unit capacity only

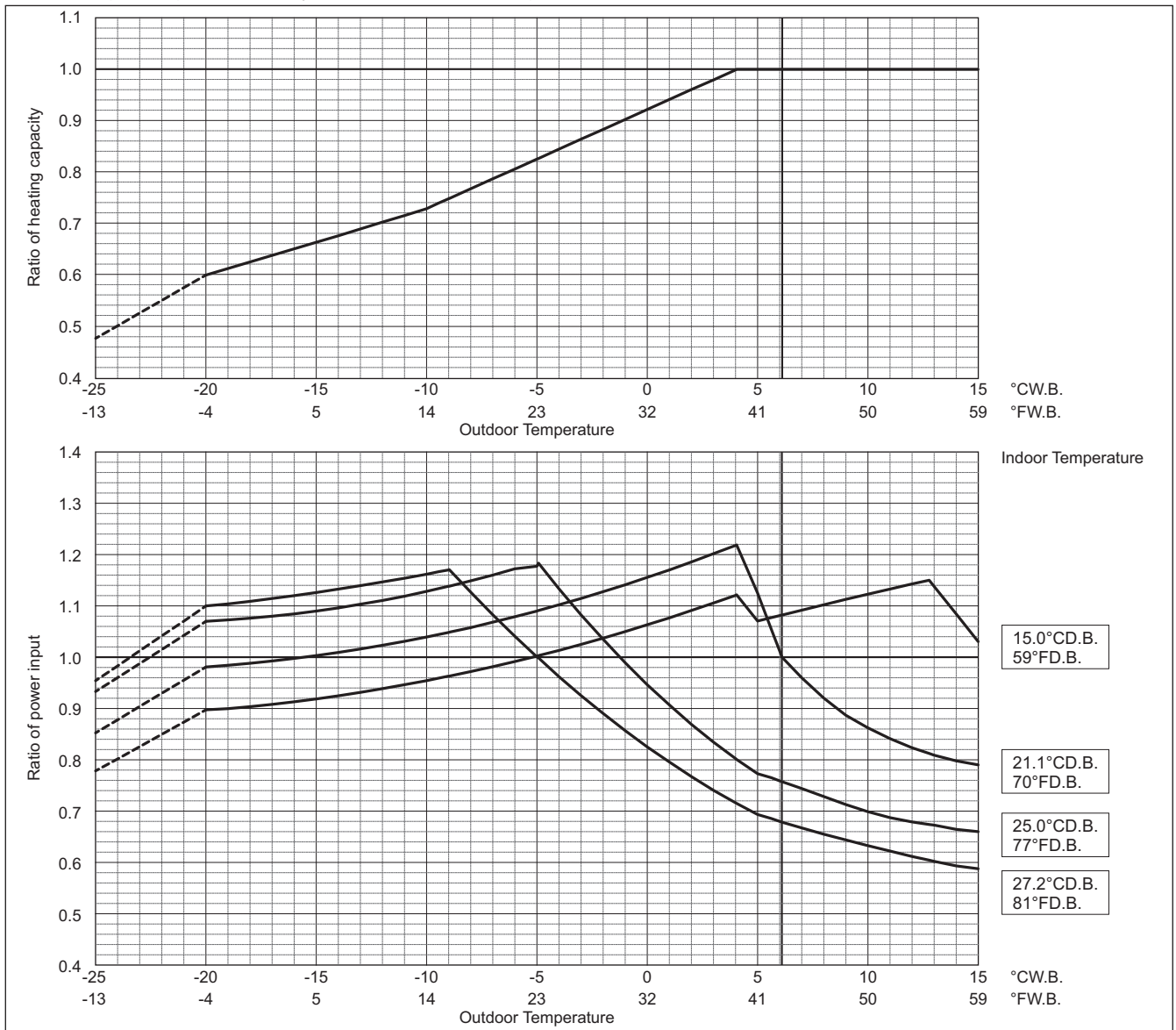


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

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



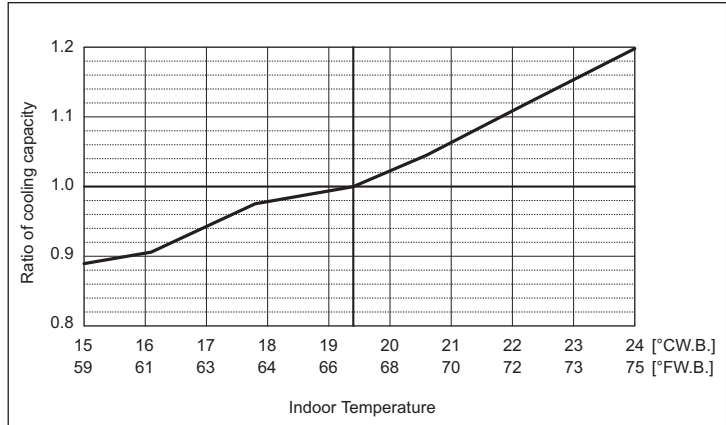
Values in the heating temperature correction diagram in the range below -20°C (-4°F) are reference values and not guaranteed values. Do not use these reference values for selecting outdoor unit models.
 When using the units at outdoor temperatures below -20°C (-4°F), install a backup heater.

8. CAPACITY TABLES

PUHY-	P144YSKMU		P168TSKMU/YSKMU		
	Non-Ducted	Ducted	Non-Ducted	Ducted	
Nominal cooling capacity	BTU/h	144,000	168,000		
	kW	42.2	49.2		
Rated cooling capacity	BTU/h	137,000	161,000		
	kW	40.2	47.2		
Input	kW	9.89	9.68	11.95	11.58

Indoor unit temperature correction

To be used to correct indoor unit capacity only



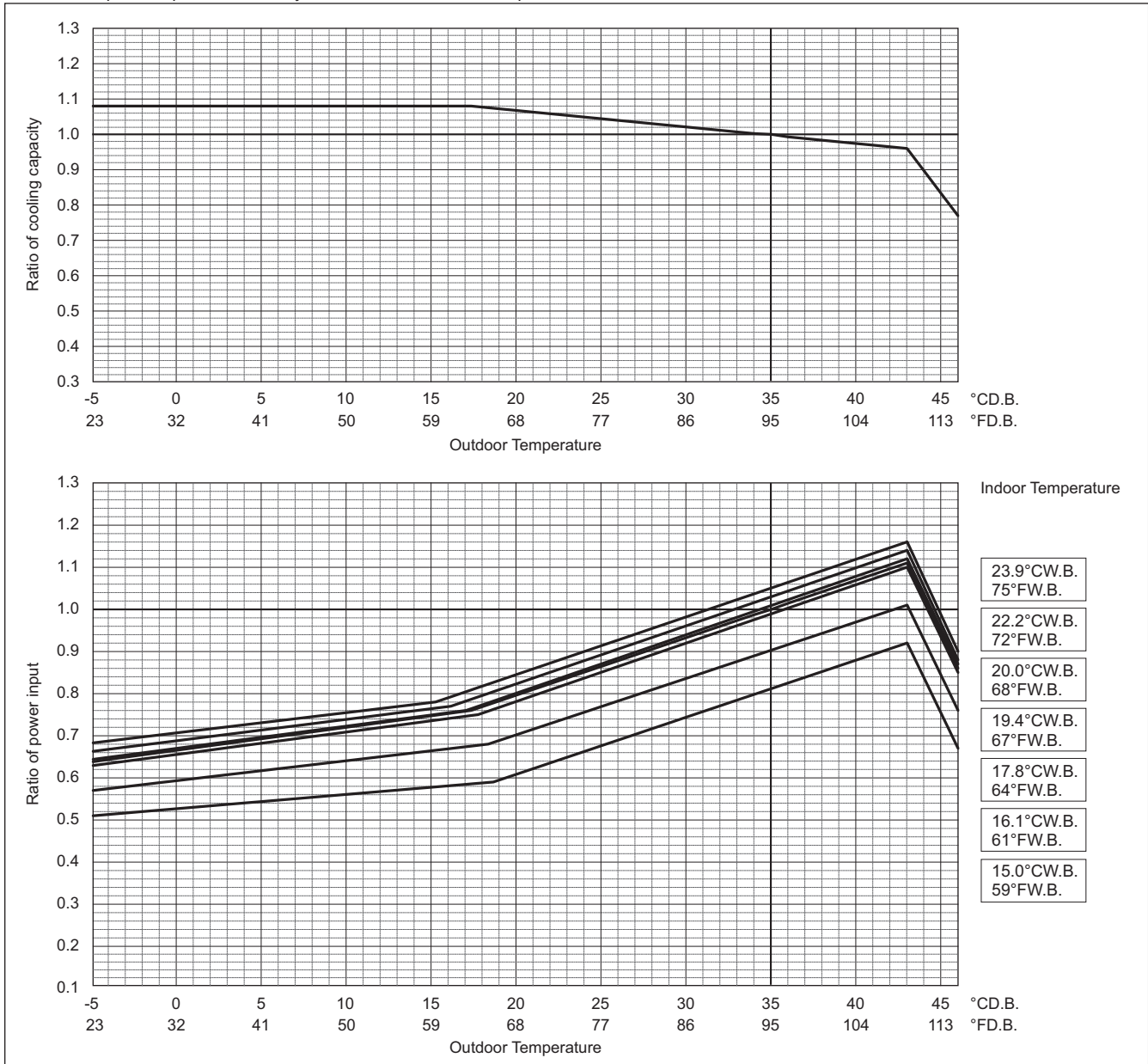
PUHY-	P192TSKMU/YSKMU		
	Non-Ducted	Ducted	
Nominal cooling capacity	BTU/h	192,000	
	kW	56.3	
Rated cooling capacity	BTU/h	183,000	
	kW	53.6	
Input	kW	14.04	13.39

Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

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



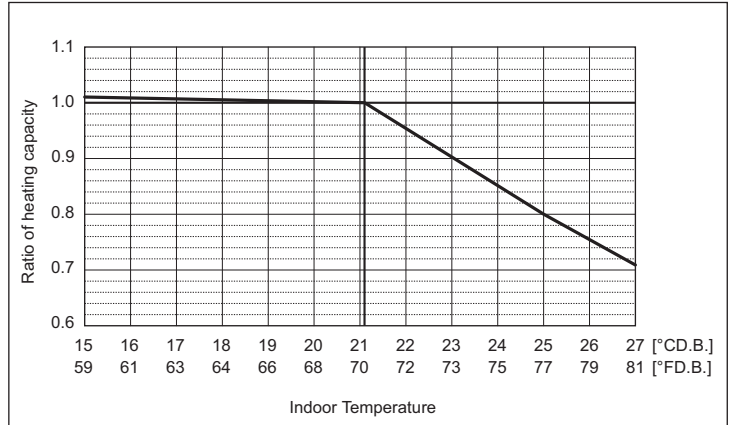
High Heating Performance Mode

PUHY-		P144YSKMU		P168TSKMU/YSKMU	
		Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	160,000		188,000	
	kW	46.9		55.1	
	Input kW	11.68		14.02	
Rated Heating capacity	BTU/h	152,000		179,000	
	kW	44.5		52.5	
	Input kW	10.79	10.84	13.16	12.80

PUHY-		P192TSKMU/YSKMU		
		Non-Ducted	Ducted	
Nominal Heating capacity	BTU/h	215,000		
	kW	63.0		
	Input kW	16.91		
Rated Heating capacity	BTU/h	205,000		
	kW	60.1		
	Input kW	16.00	15.31	

Indoor unit temperature correction

To be used to correct indoor unit capacity only

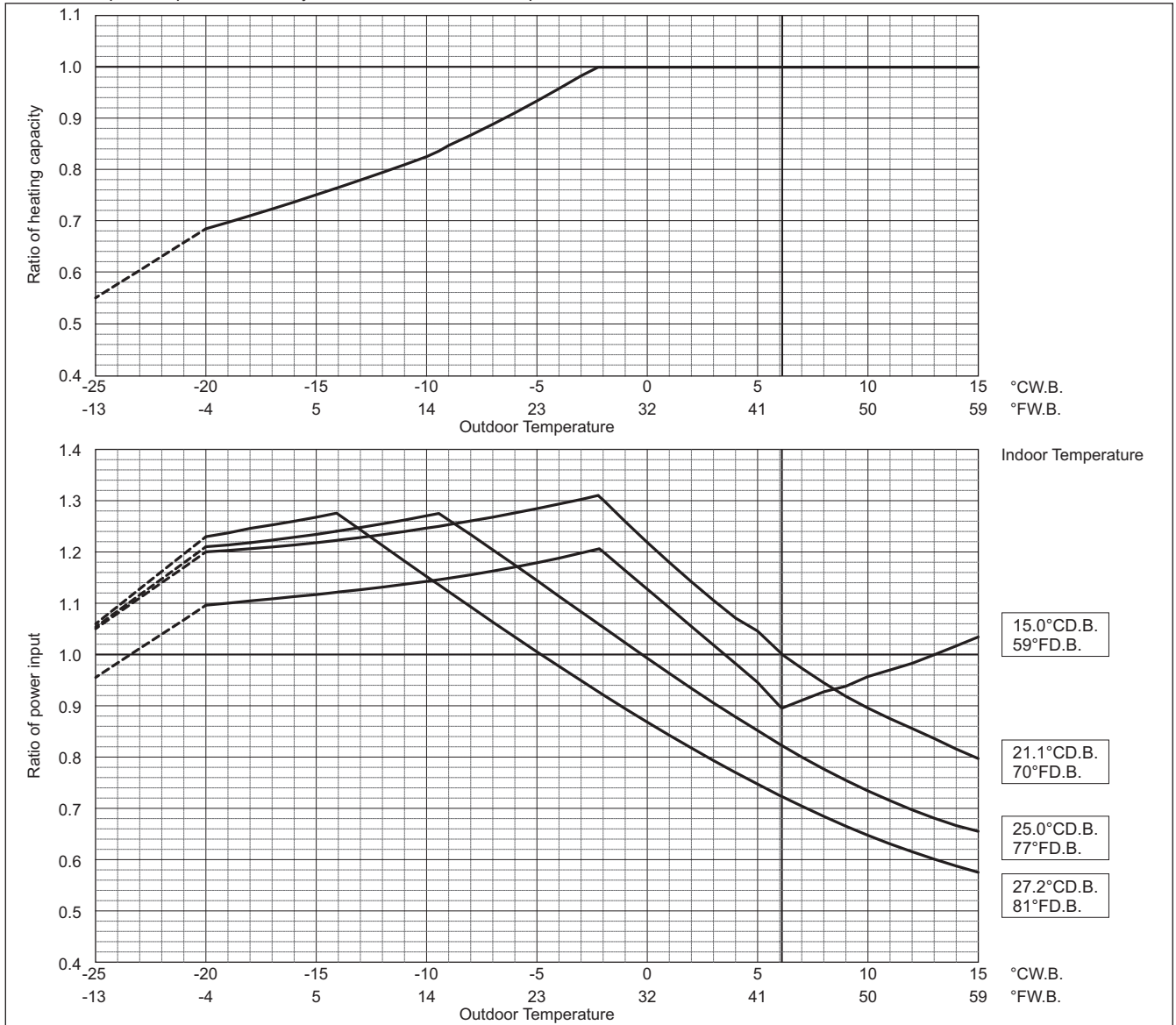


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

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



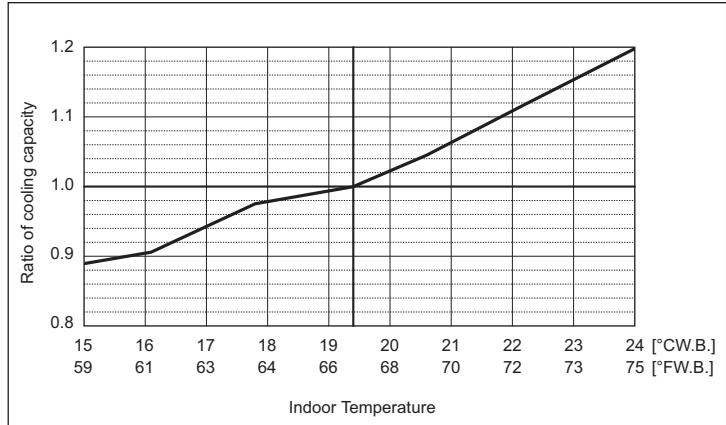
Values in the heating temperature correction diagram in the range below -20°C (-4°F) are reference values and not guaranteed values. Do not use these reference values for selecting outdoor unit models. When using the units at outdoor temperatures below -20°C (-4°F), install a backup heater.

8. CAPACITY TABLES

PUHY-	P216TSKMU/YSKMU		P240TSKMU/YSKMU	
	Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal cooling capacity	BTU/h	216,000		240,000
	kW	63.3		70.3
Input	kW	16.90		19.12
	BTU/h	206,000		228,000
Rated cooling capacity	kW	60.4		66.8
	Input kW	16.09	15.21	18.28

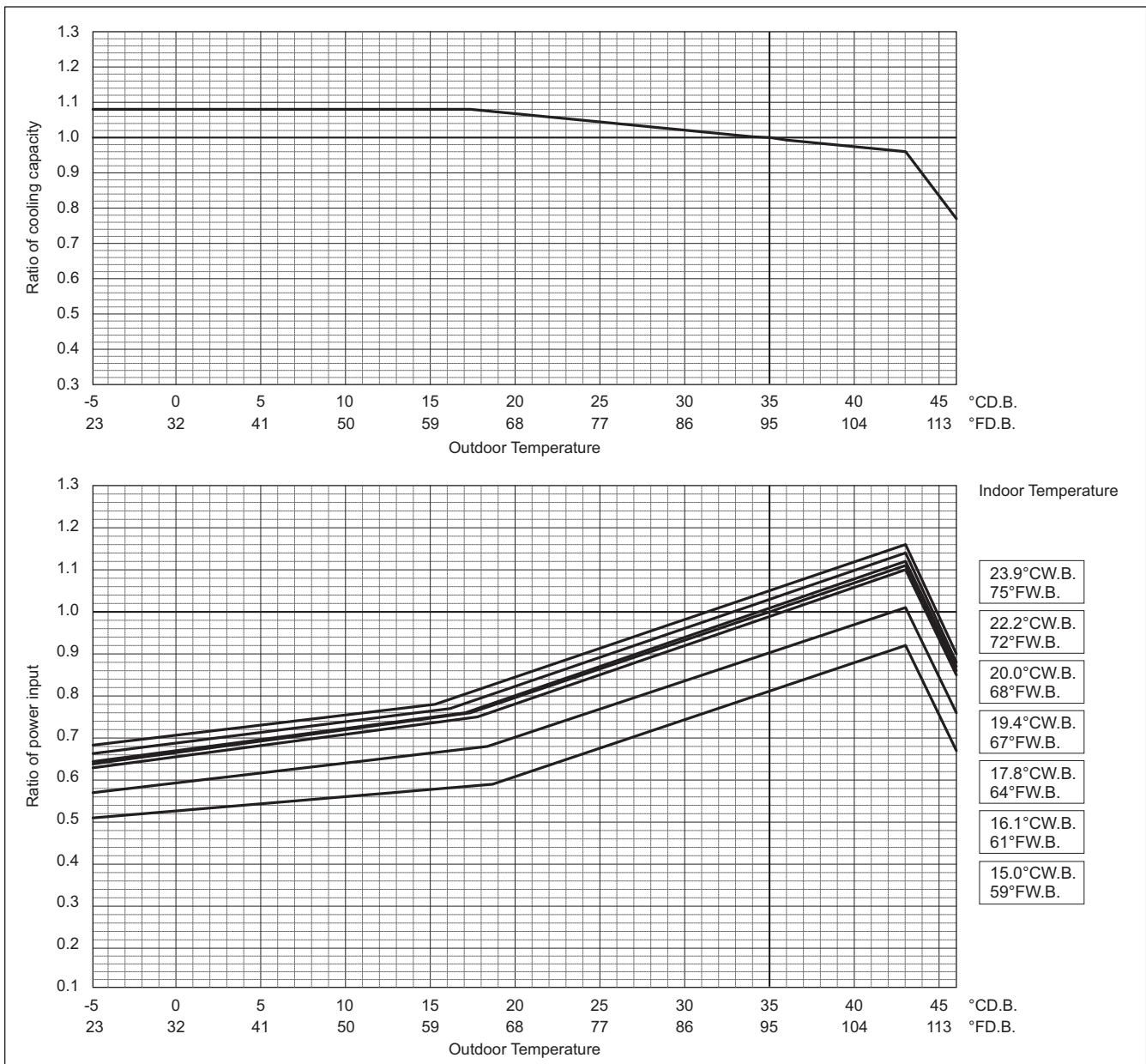
Indoor unit temperature correction

To be used to correct indoor unit capacity only



Outdoor unit temperature correction

To be used to correct outdoor unit only
 Outdoor unit capacity is NOT affected by the indoor temperature.
 Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.

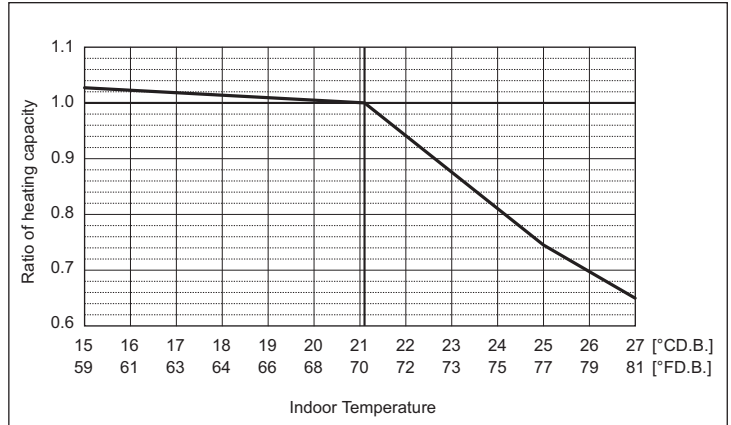


High Heating Performance Mode

PUHY-		P216TSKMU/YSKMU		P240TSKMU/YSKMU	
		Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	243,000		270,000	
	kW	71.2		79.1	
Input	kW	19.26		21.86	
	BTU/h	232,000		258,000	
Rated Heating capacity	kW	68.0		75.6	
	Input	kW	18.40	17.27	20.70

Indoor unit temperature correction

To be used to correct indoor unit capacity only

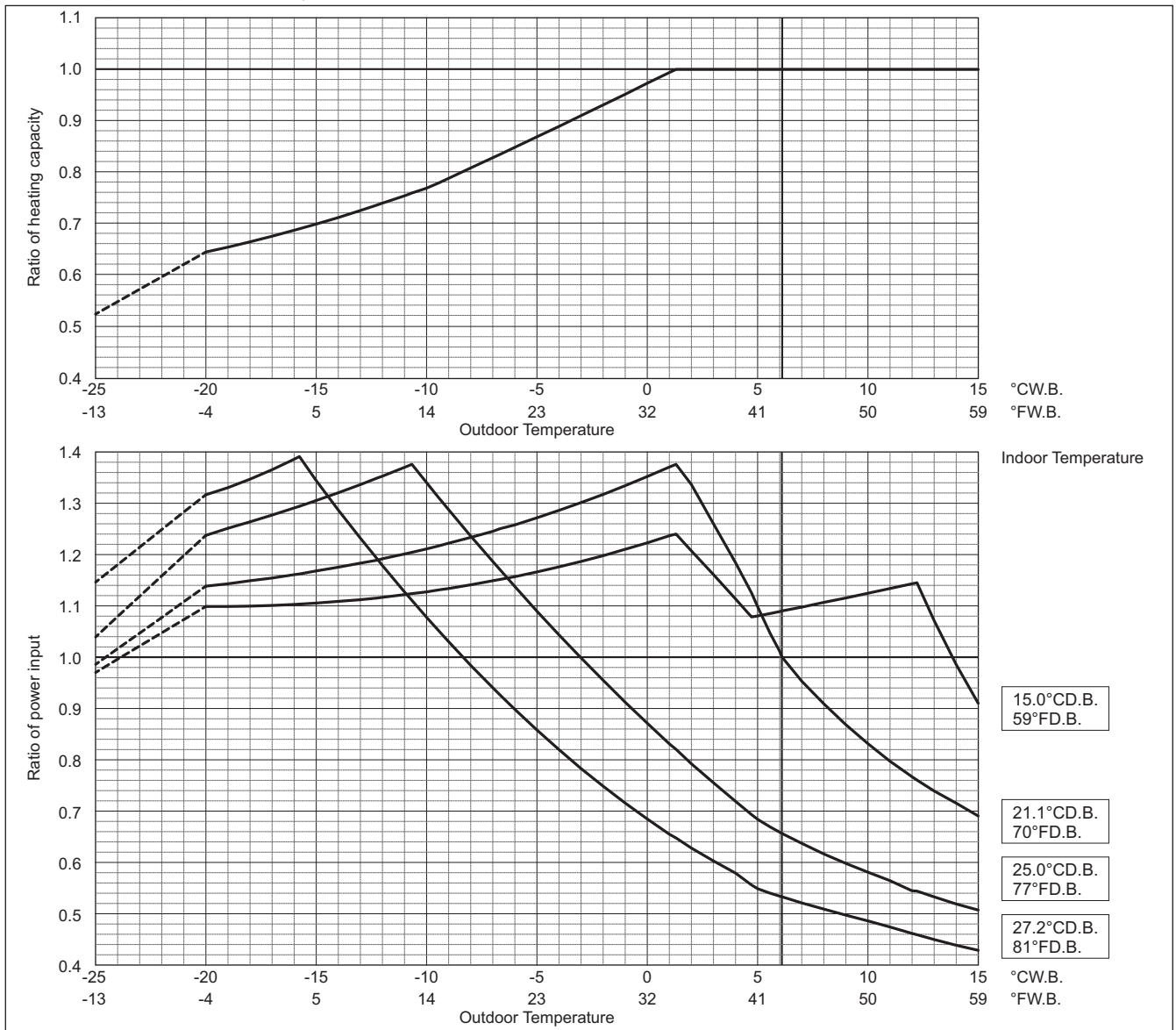


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

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



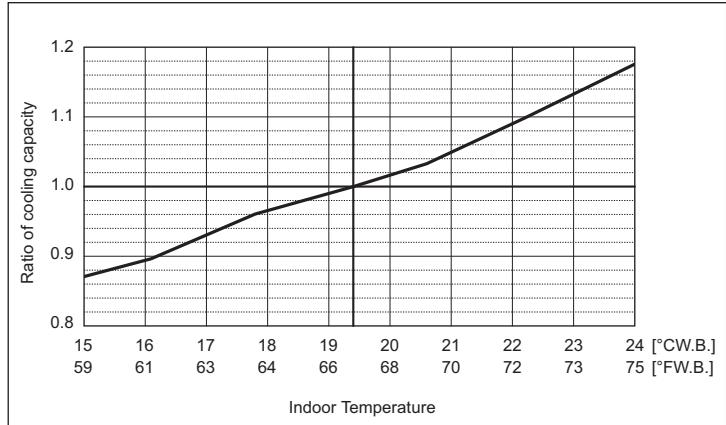
Values in the heating temperature correction diagram in the range below -20°C (-4°F) are reference values and not guaranteed values. Do not use these reference values for selecting outdoor unit models.
 When using the units at outdoor temperatures below -20°C (-4°F), install a backup heater.

8. CAPACITY TABLES

PUHY-	P264TSKMU/YSKMU		P288TSKMU/YSKMU		
	Non-Ducted	Ducted	Non-Ducted	Ducted	
Nominal cooling capacity	BTU/h	264,000		288,000	
	kW	77.4		84.4	
Input	kW	20.35		22.39	
	BTU/h	252,000		275,000	
Rated cooling capacity	kW	73.9		80.6	
	Input	kW	19.39	18.29	21.33

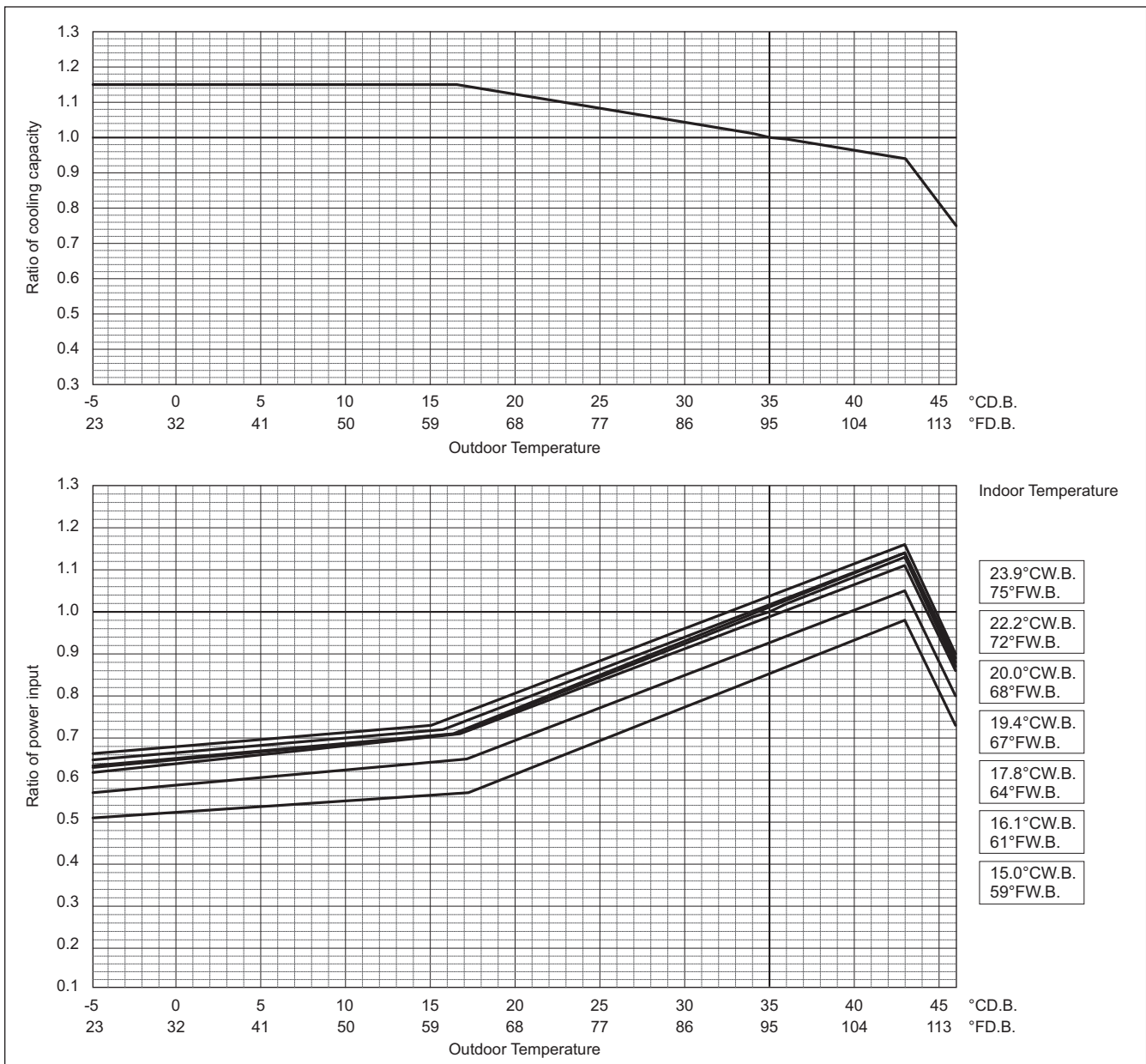
Indoor unit temperature correction

To be used to correct indoor unit capacity only



Outdoor unit temperature correction

To be used to correct outdoor unit only
 Outdoor unit capacity is NOT affected by the indoor temperature.
 Outdoor unit power input is affected by the indoor and outdoor temperatures. Please consult the sales office for details.



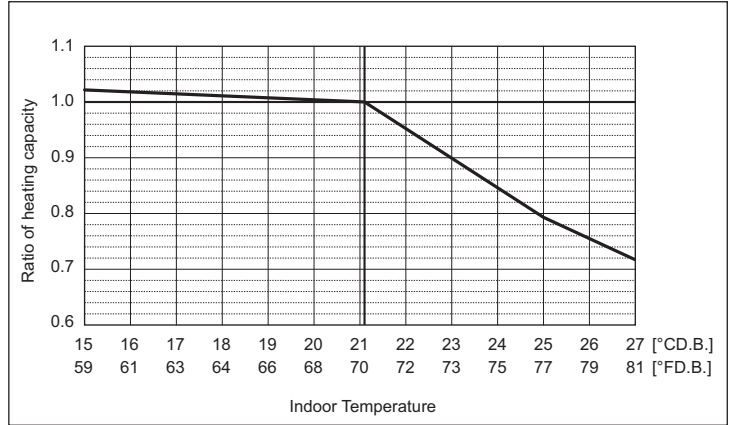
8. CAPACITY TABLES

High Heating Performance Mode

PUHY-		P264TSKMU/YSKMU		P288TSKMU/YSKMU	
		Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	295,000		323,000	
	kW	86.5		94.7	
Input	kW	23.11		25.36	
	BTU/h	281,000		308,000	
Rated Heating capacity	kW	82.4		90.3	
	Input	kW	22.07	20.72	24.27

Indoor unit temperature correction

To be used to correct indoor unit capacity only

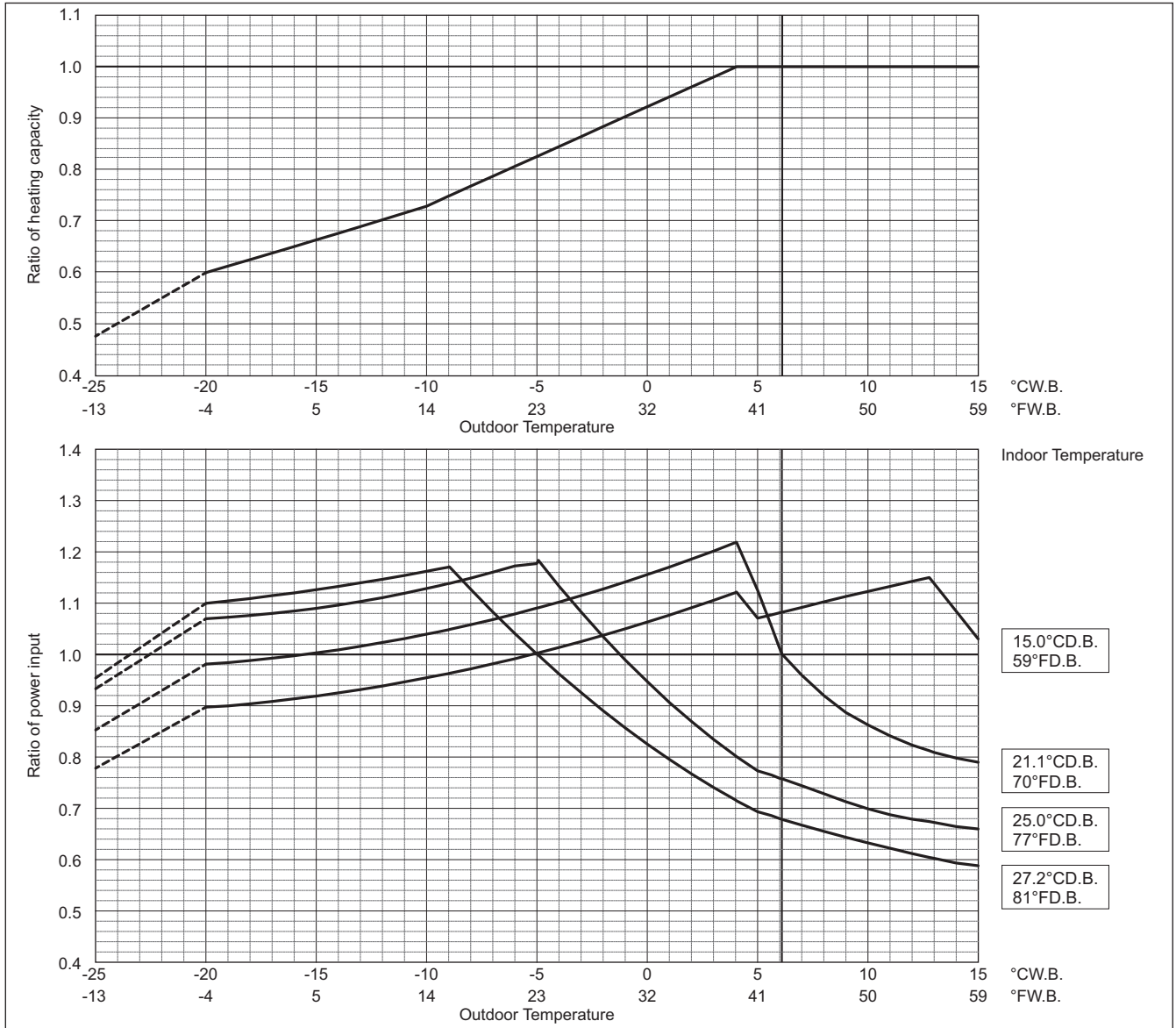


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

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



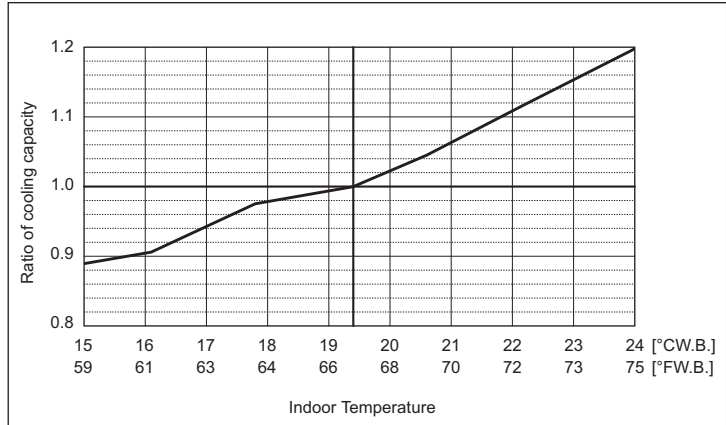
Values in the heating temperature correction diagram in the range below -20°C (-4°F) are reference values and not guaranteed values. Do not use these reference values for selecting outdoor unit models.
 When using the units at outdoor temperatures below -20°C (-4°F), install a backup heater.

8. CAPACITY TABLES

PUHY-	P312TSKMU/YSKMU		P336TSKMU/YSKMU	
	Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal cooling capacity	BTU/h	312,000		336,000
	kW	91.4		98.5
Input	kW	24.87		27.21
	BTU/h	297,000		320,000
Rated cooling capacity	kW	87.0		93.8
	Input kW	23.70	22.36	25.82

Indoor unit temperature correction

To be used to correct indoor unit capacity only



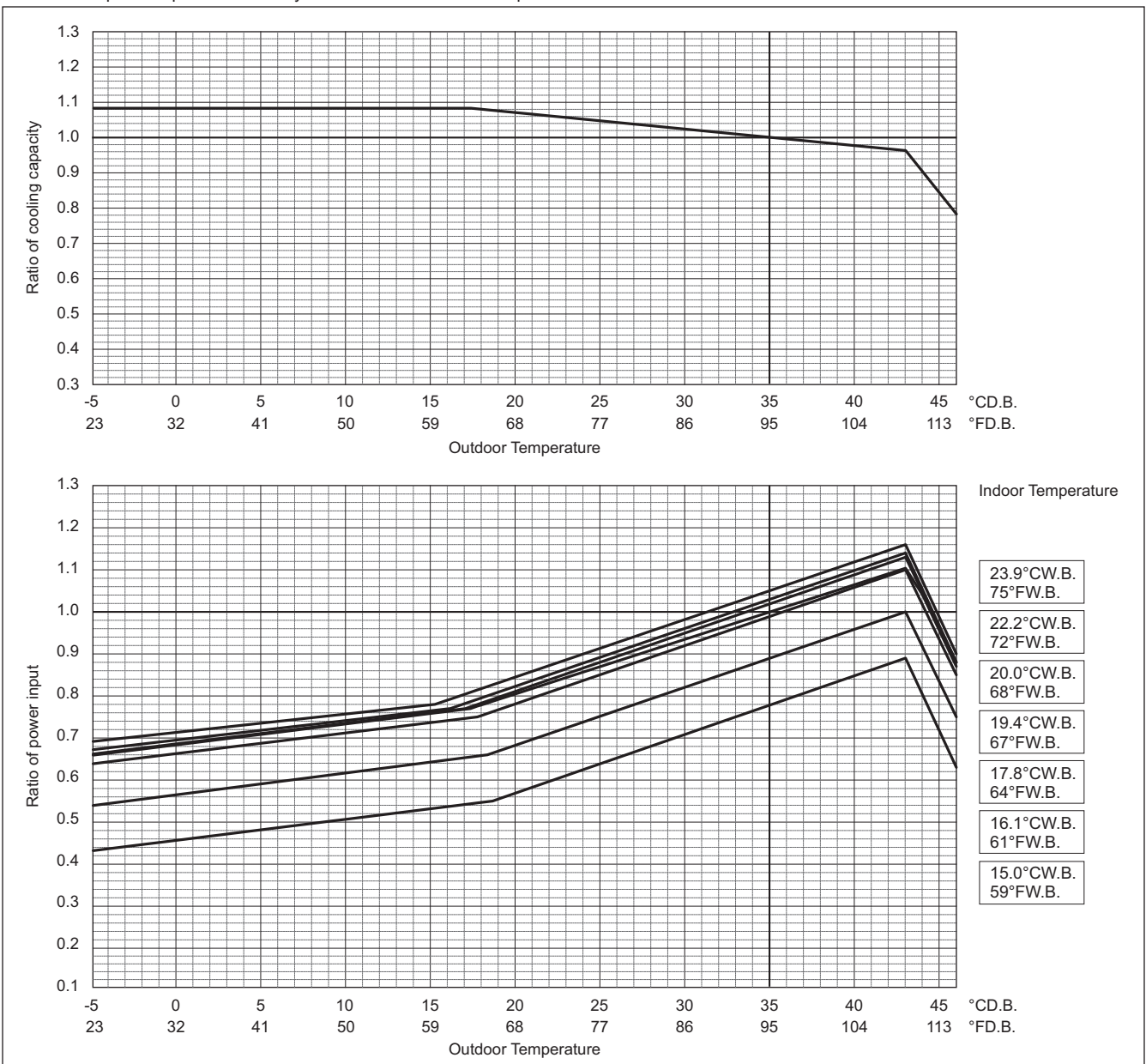
PUHY-	P360TSKMU/YSKMU	
	Non-Ducted	Ducted
Nominal cooling capacity	BTU/h	360,000
	kW	105.5
Input	kW	29.65
	BTU/h	342,000
Rated cooling capacity	kW	100.2
	Input kW	28.14

Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

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



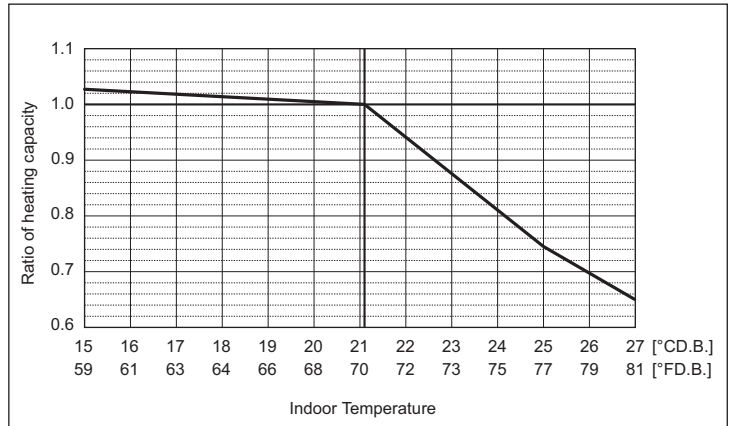
High Heating Performance Mode

PUHY-		P312TSKMU/YSKMU		P336TSKMU/YSKMU	
		Non-Ducted	Ducted	Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	350,000		378,000	
	kW	102.6		110.8	
Input	kW	28.71		31.73	
	BTU/h	334,000		361,000	
Rated Heating capacity	kW	97.9		105.8	
	Input kW	27.53	25.64	30.61	28.14

PUHY-		P360TSKMU/YSKMU	
		Non-Ducted	Ducted
Nominal Heating capacity	BTU/h	405,000	
	kW	118.7	
Input	kW	35.39	
	BTU/h	387,000	
Rated Heating capacity	kW	113.4	
	Input kW	34.30	31.23

Indoor unit temperature correction

To be used to correct indoor unit capacity only

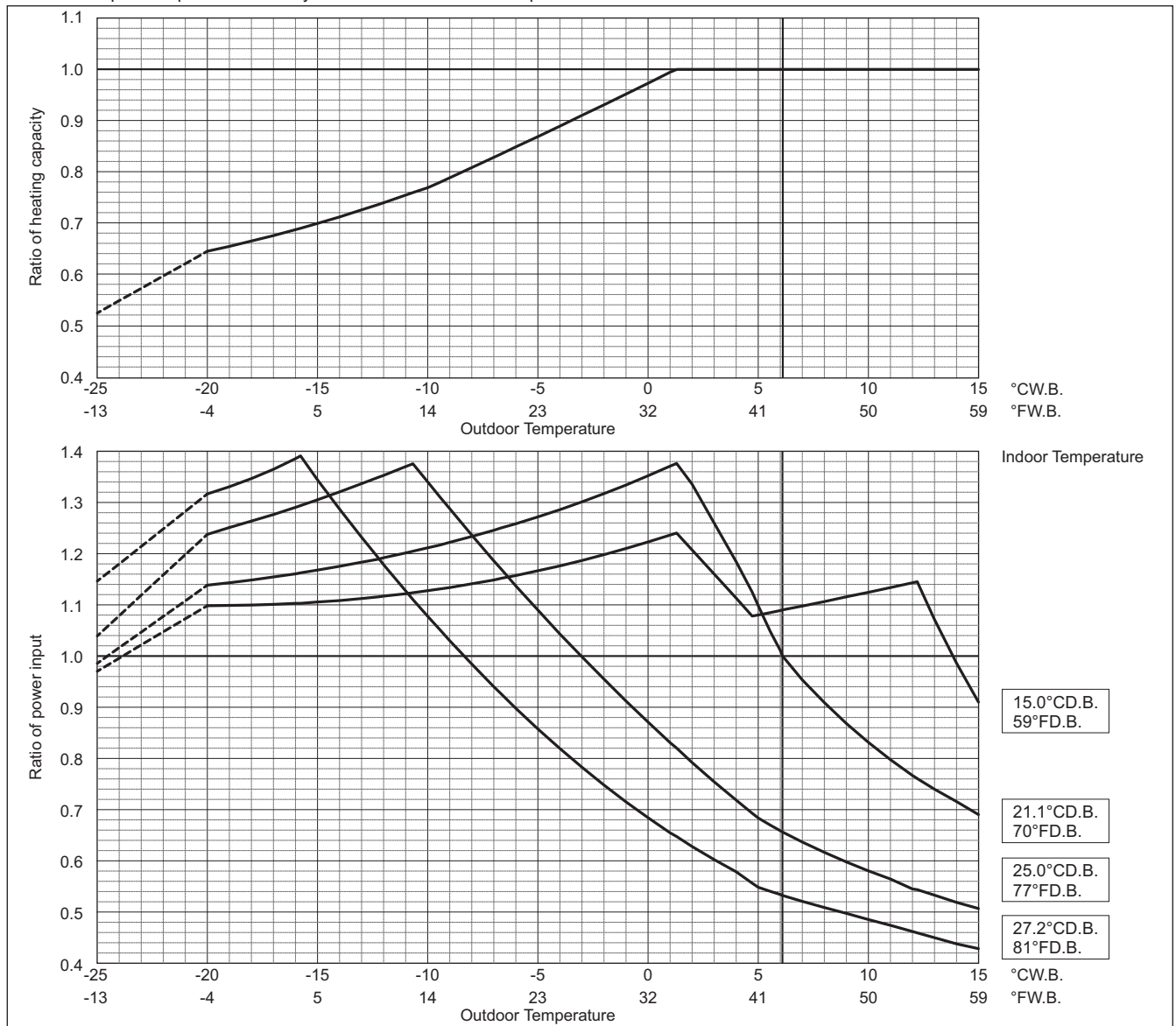


Outdoor unit temperature correction

To be used to correct outdoor unit only

Outdoor unit capacity is NOT affected by the indoor temperature.

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



Values in the heating temperature correction diagram in the range below -20°C (-4°F) are reference values and not guaranteed values. Do not use these reference values for selecting outdoor unit models.

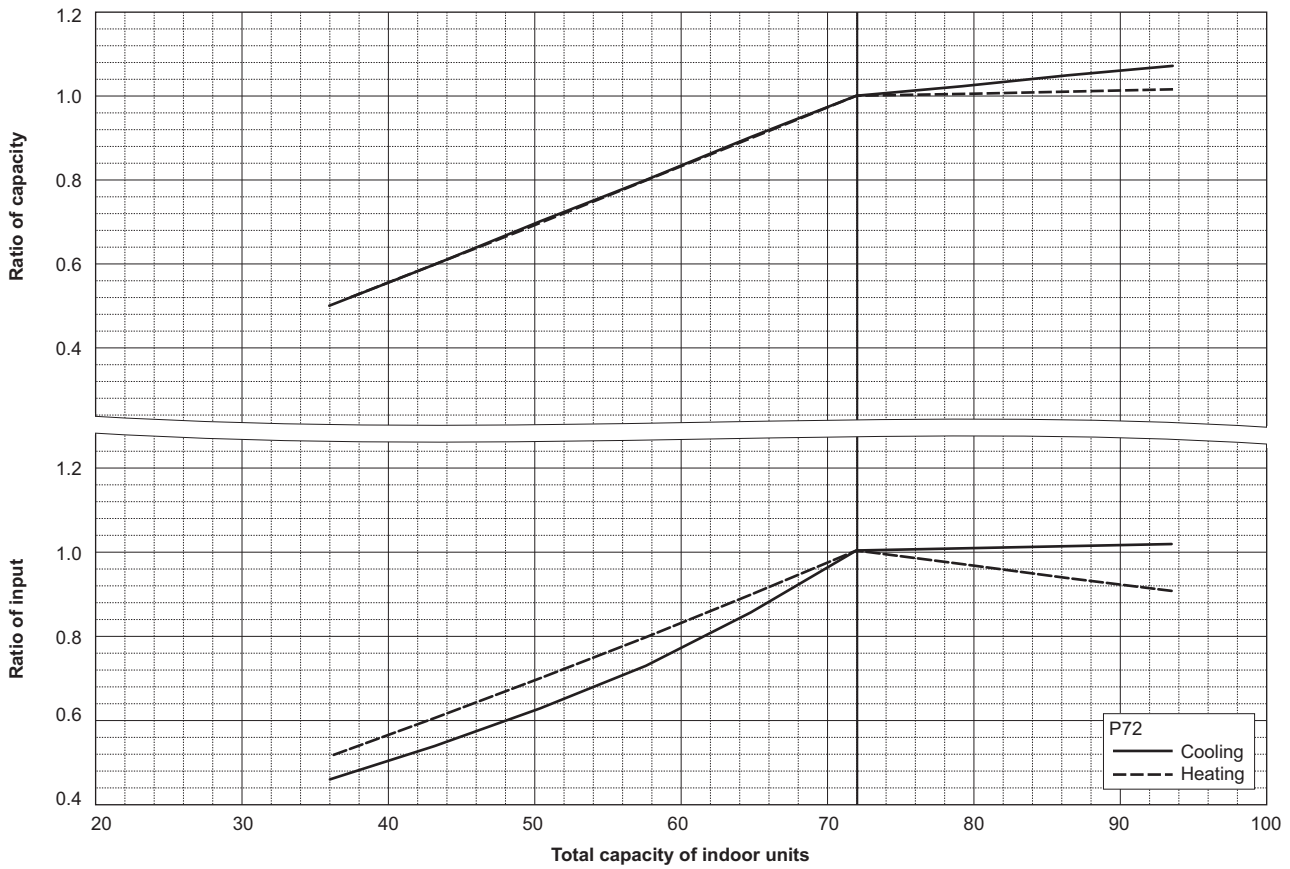
When using the units at outdoor temperatures below -20°C (-4°F), install a backup heater.

8-3. Correction by total indoor

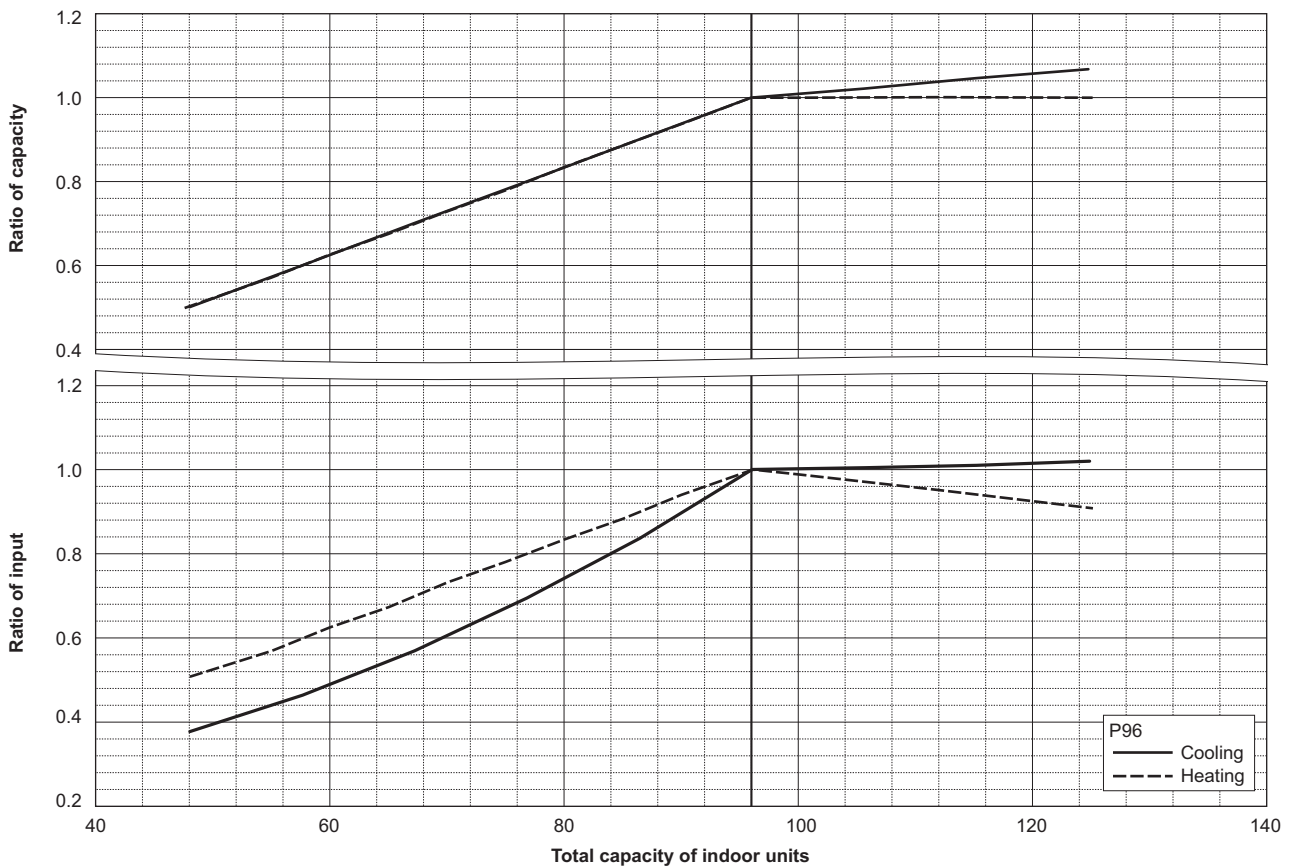
CITY MULTI system have different capacities and inputs when many combinations of indoor units with different total capacities are connected. Using following tables, the maximum capacity can be found to ensure the system is installed with enough capacity for a particular application.

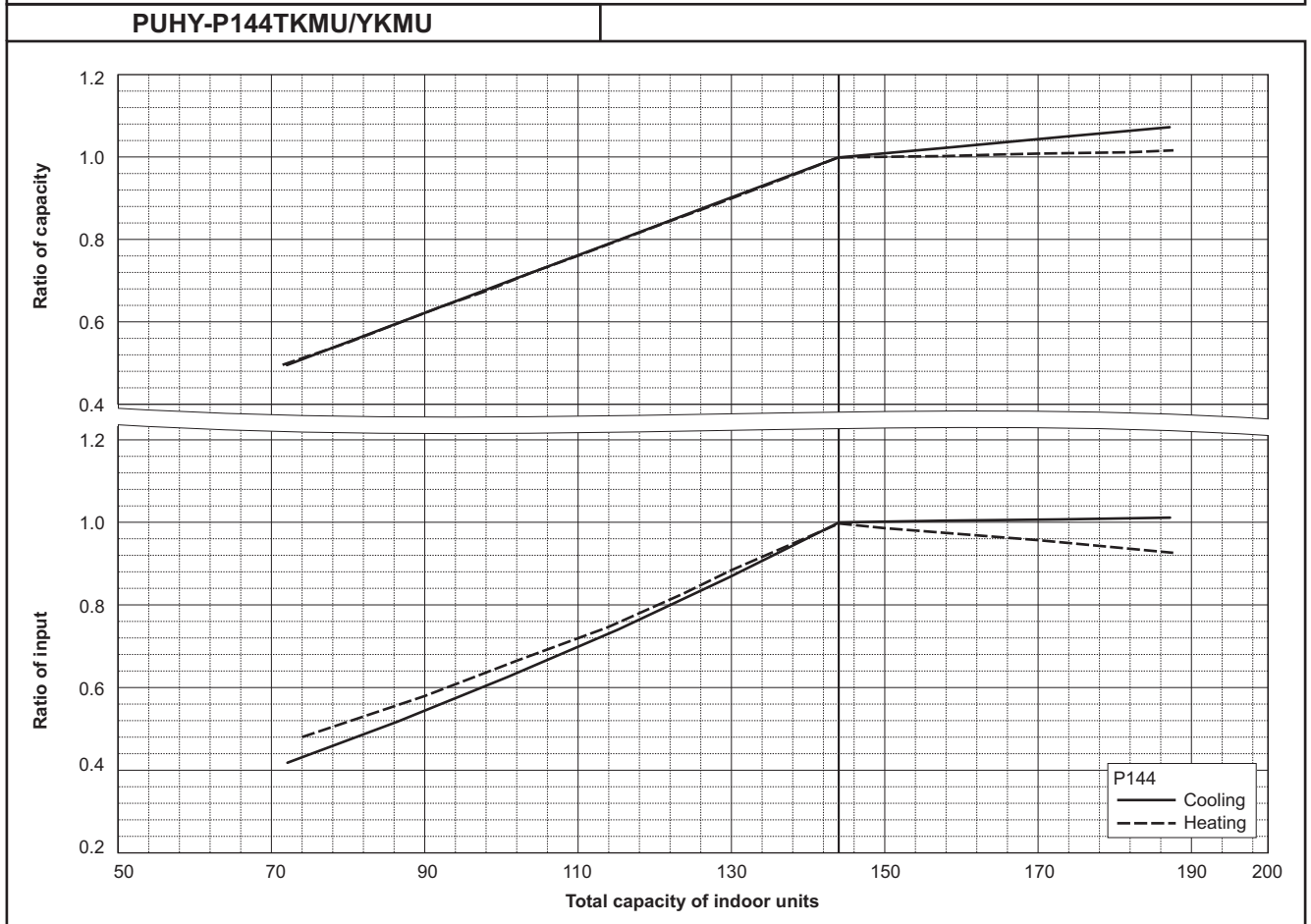
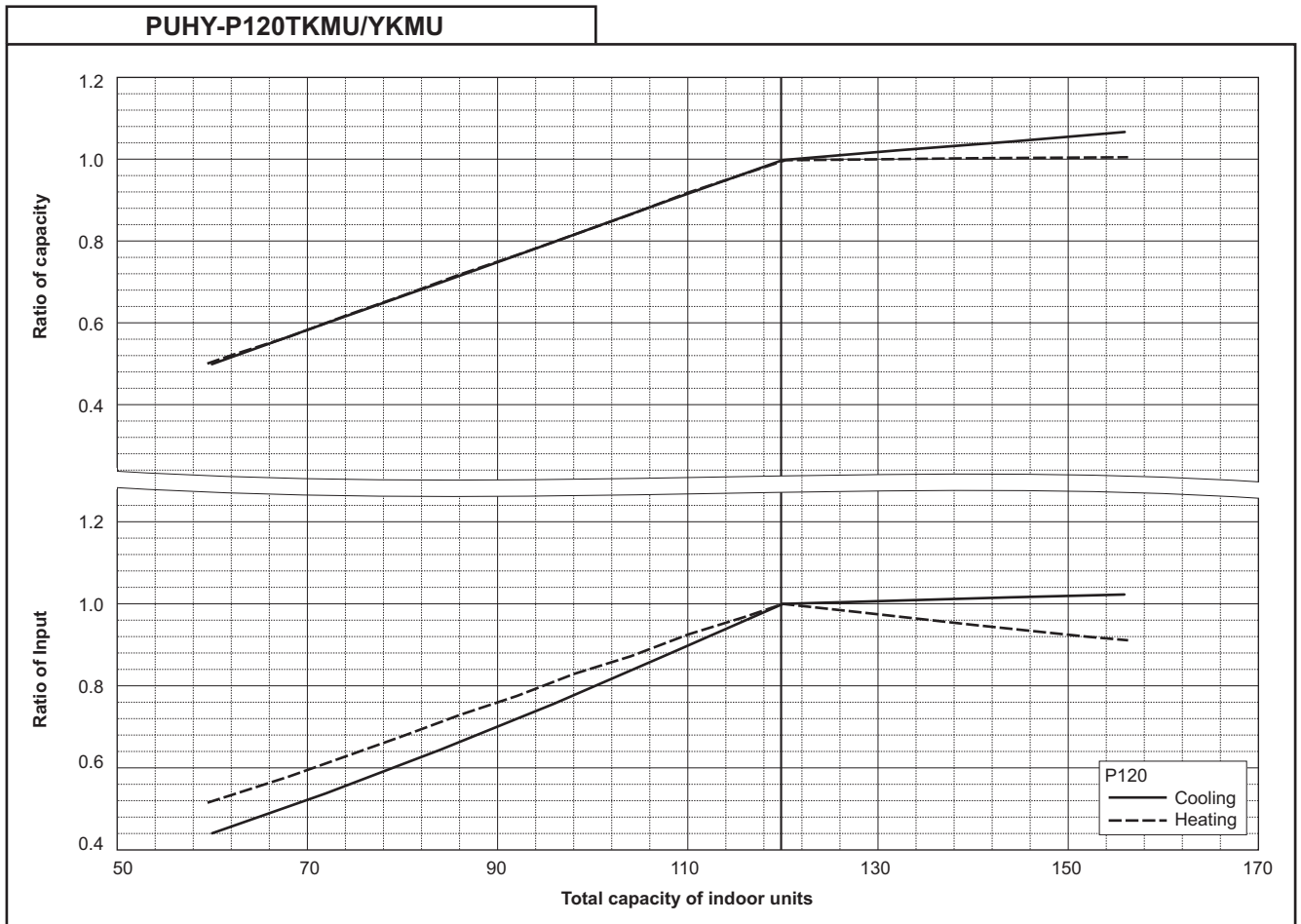
Y (K)

PUHY-P72TKMU/YKMU



PUHY-P96TKMU/YKMU

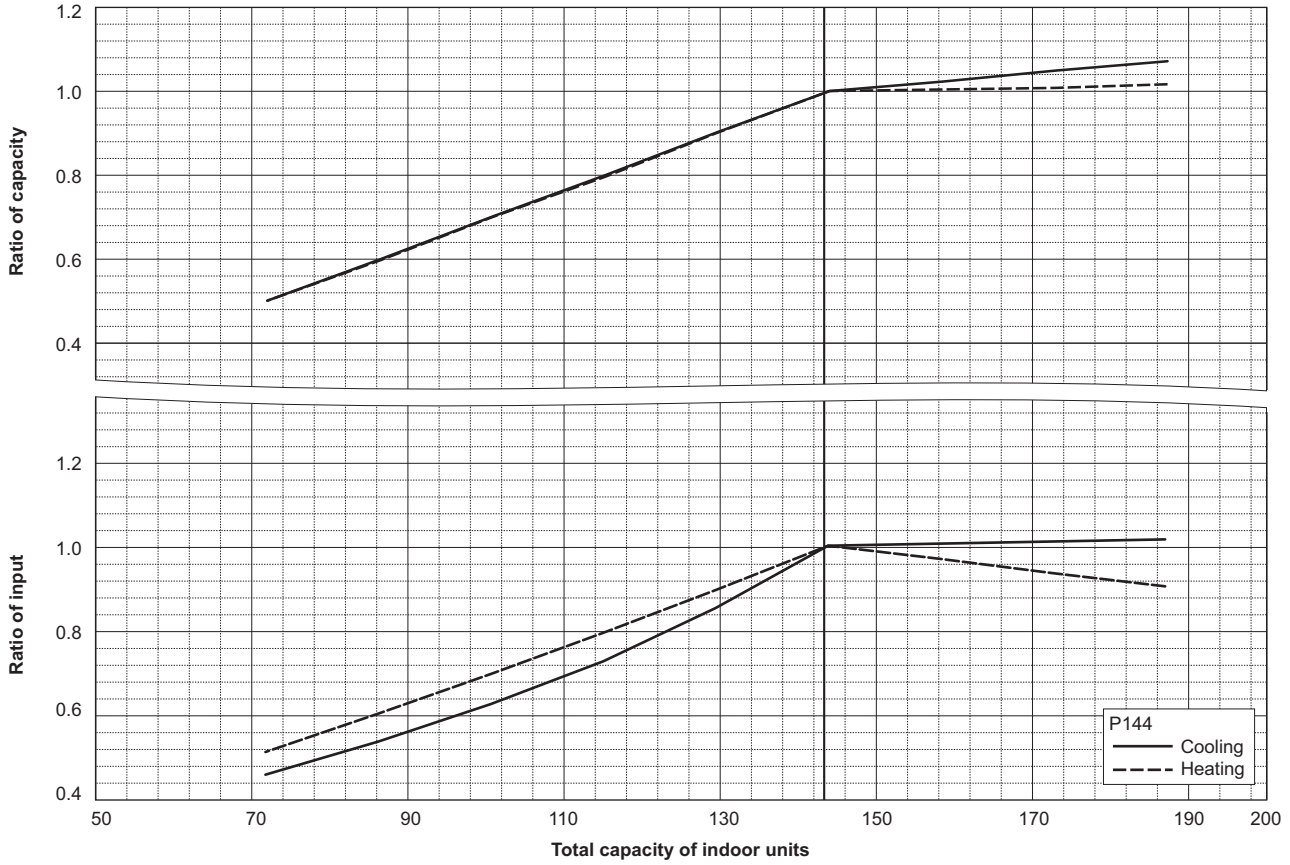




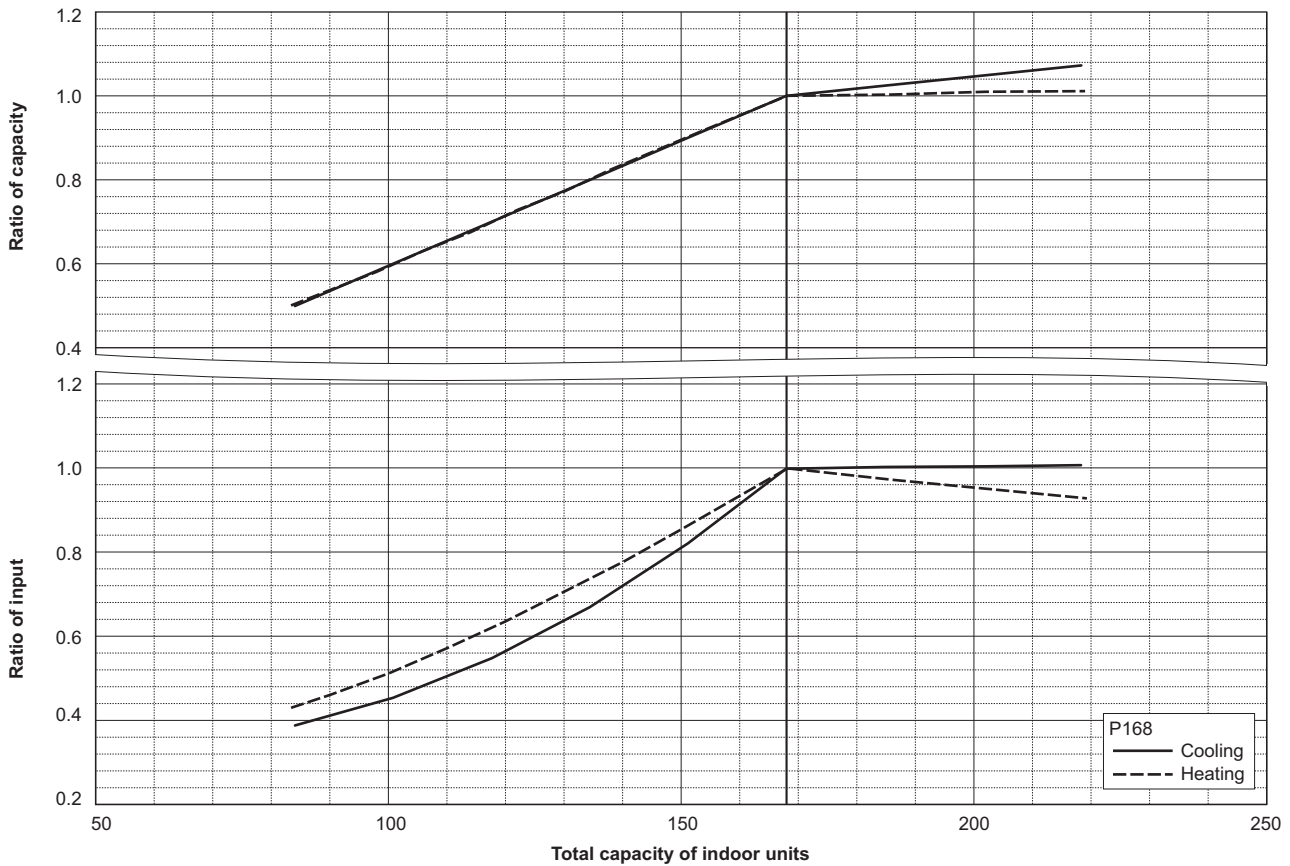
8. CAPACITY TABLES

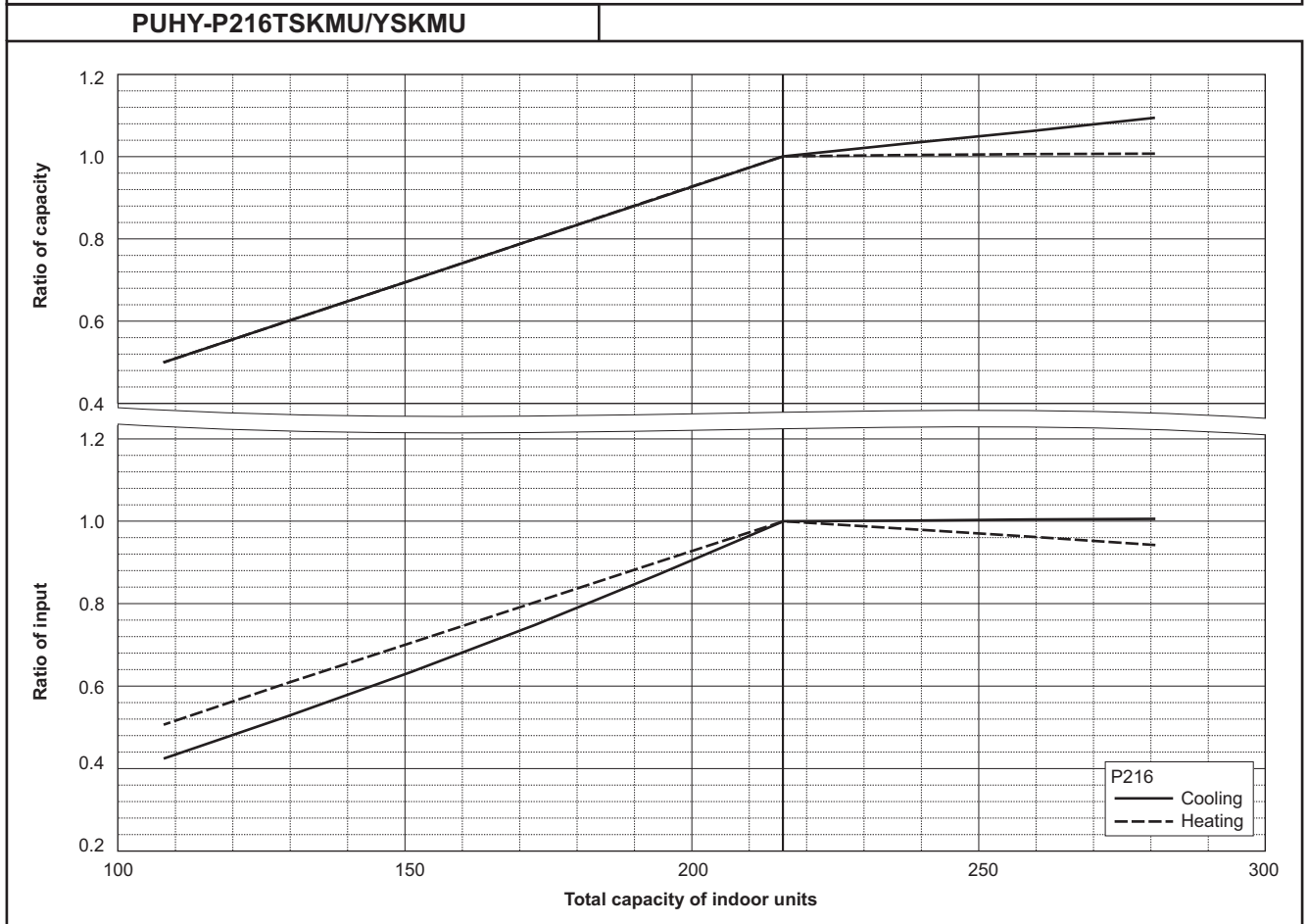
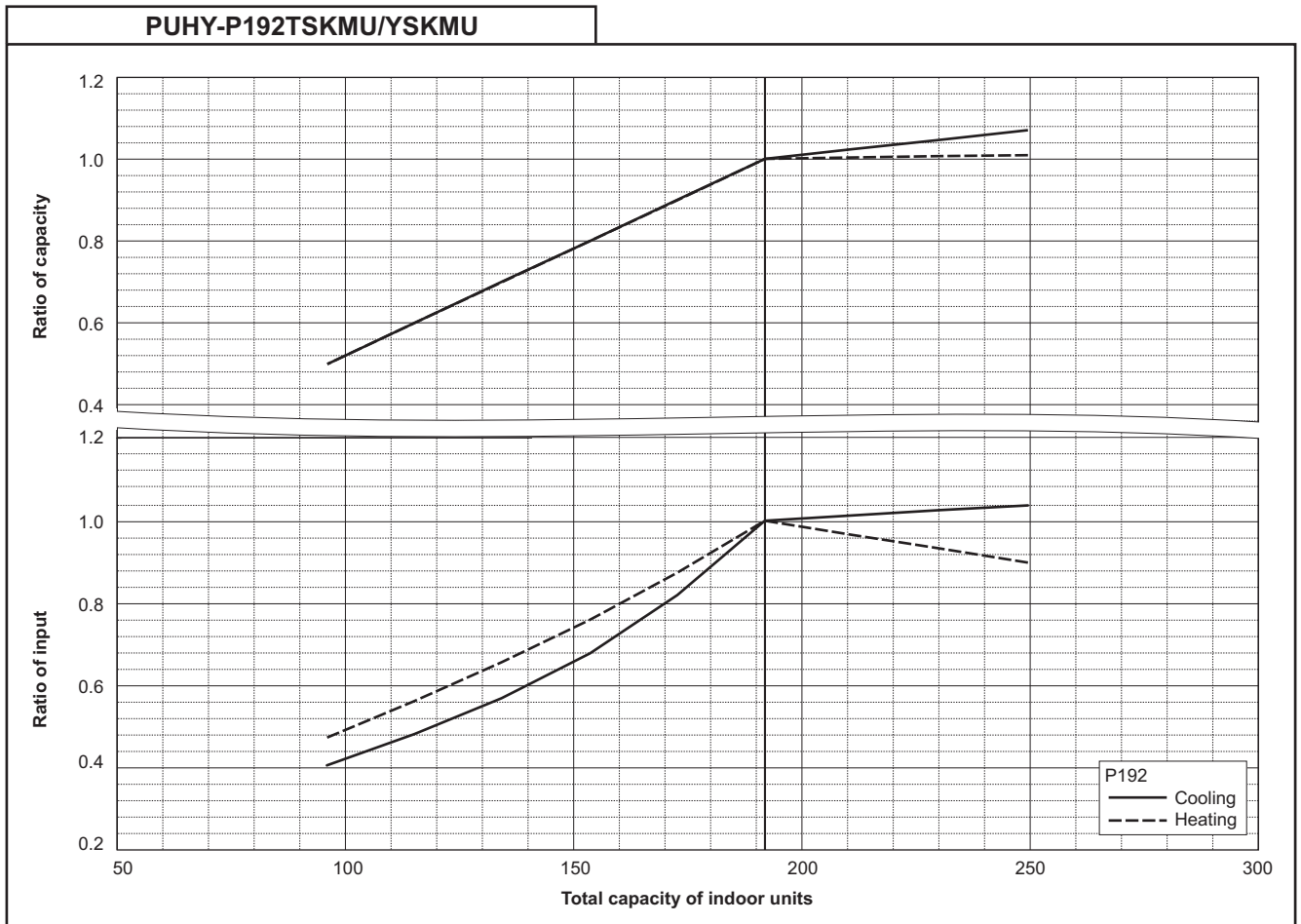
Y (K)

PUHY-P144YSKMU



PUHY-P168TSKMU/YSKMU

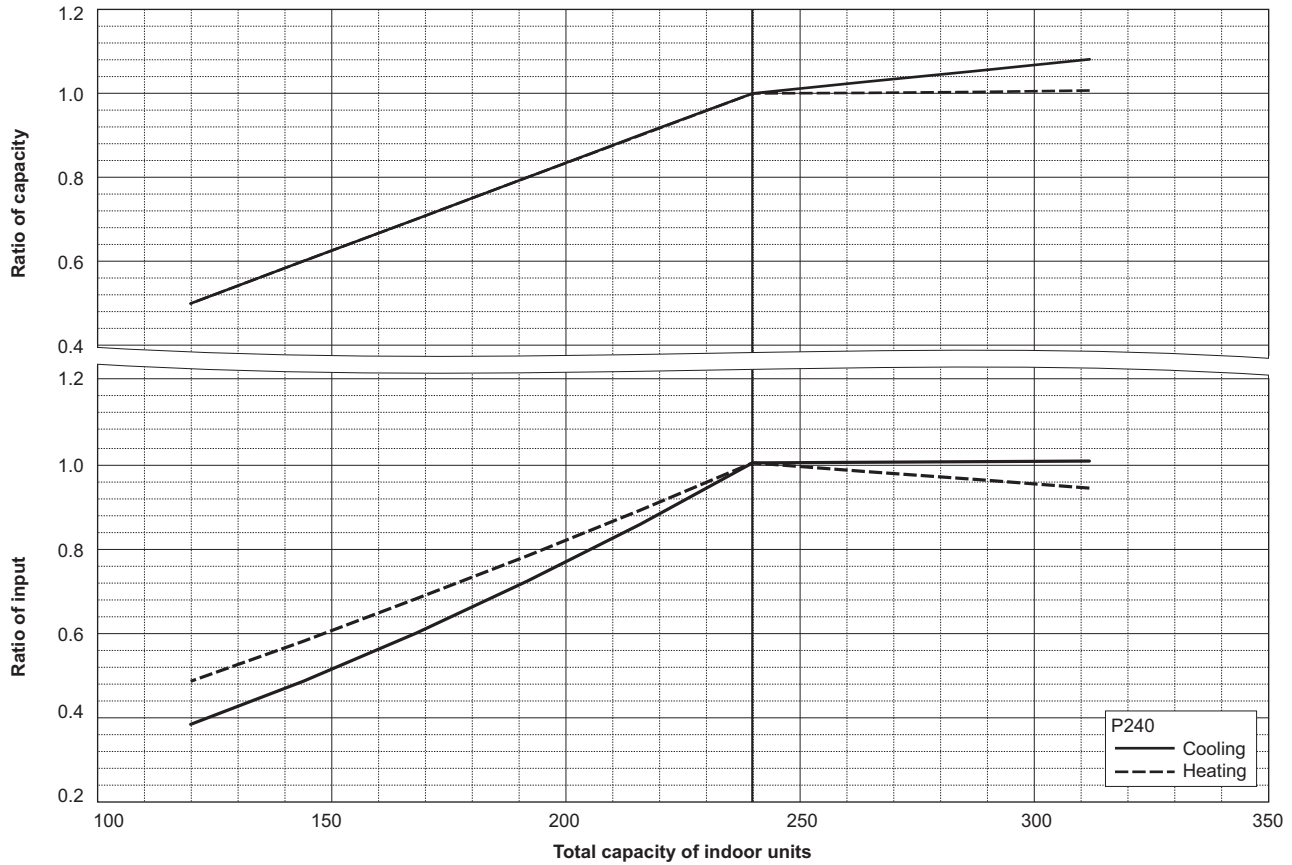




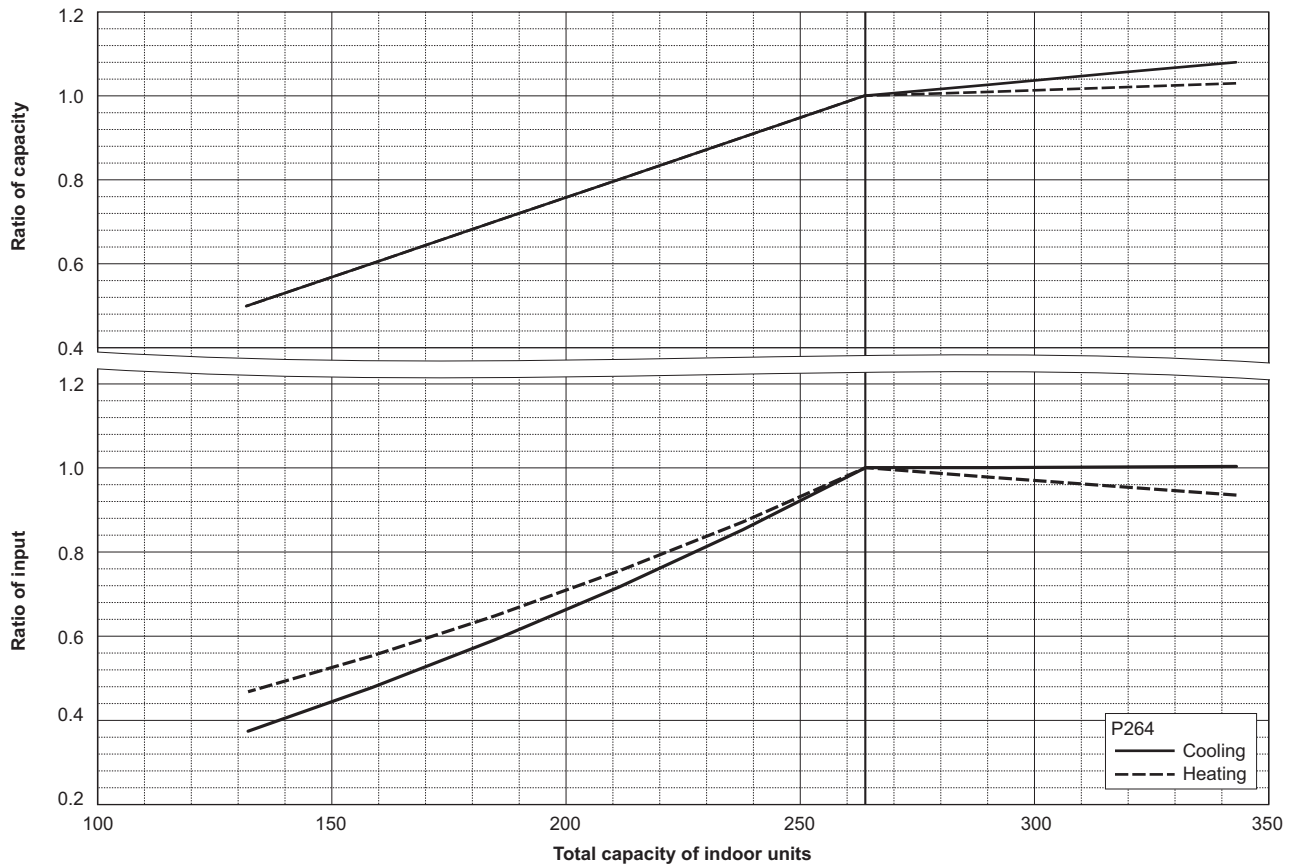
8. CAPACITY TABLES

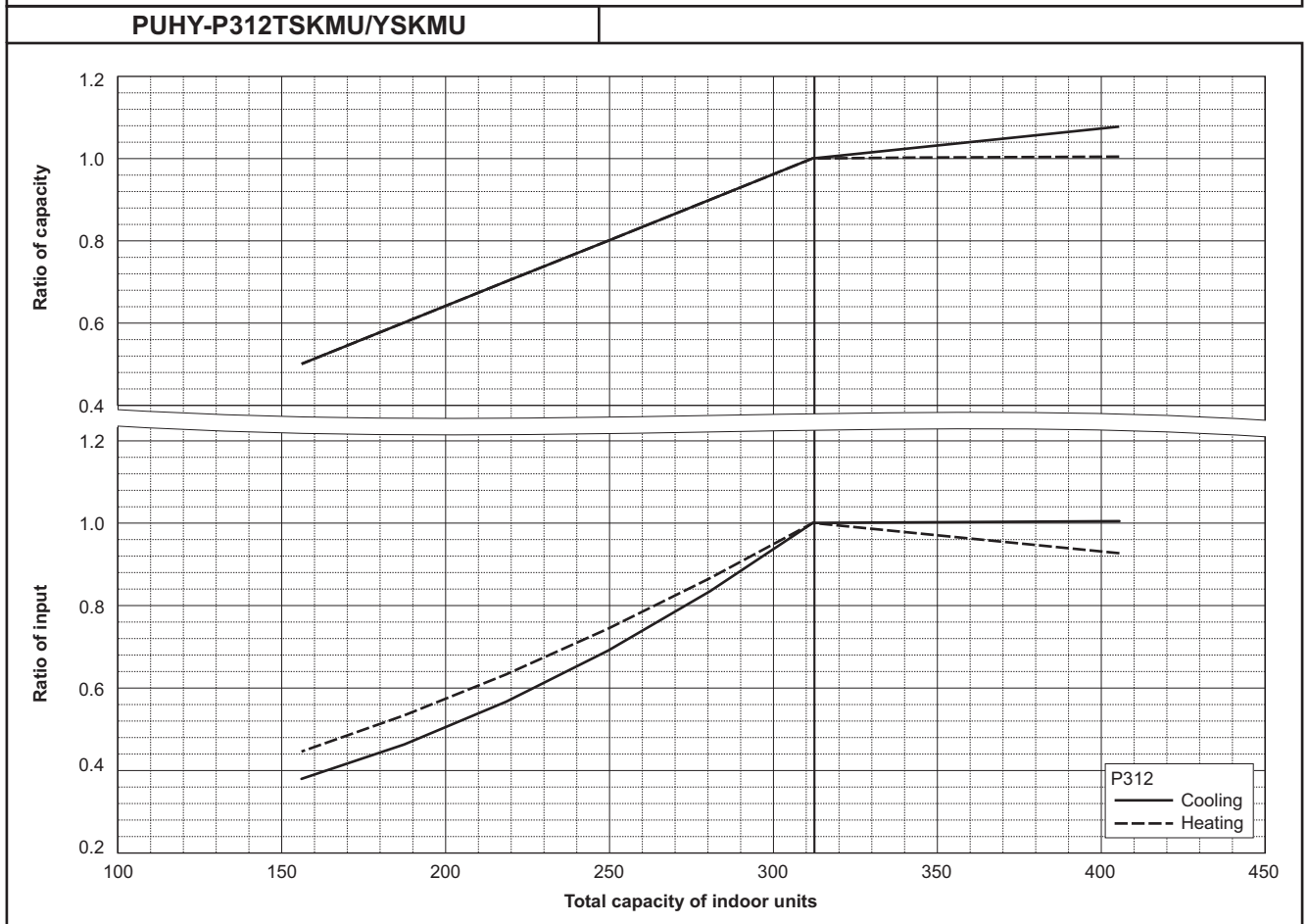
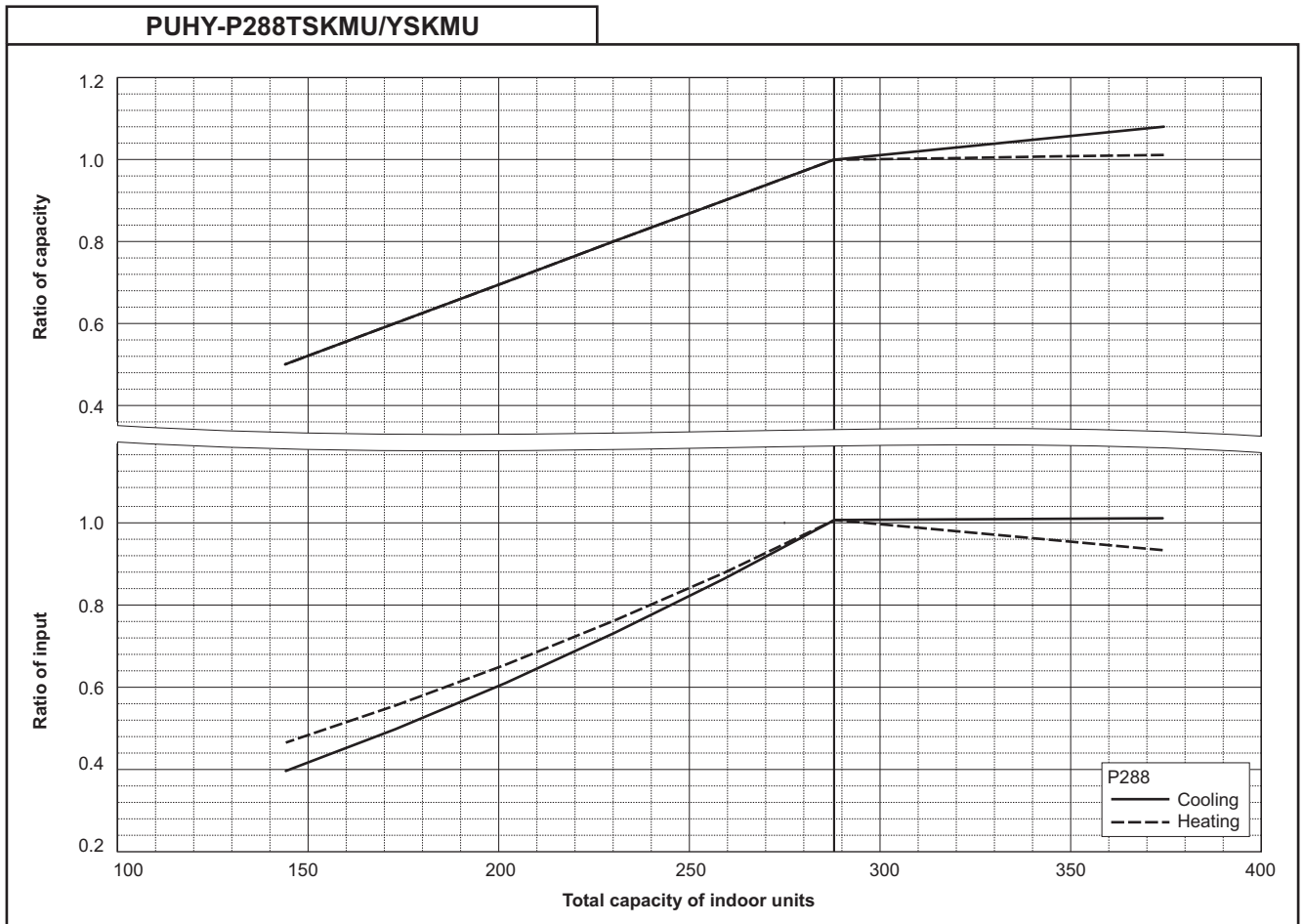
Y (K)

PUHY-P240TSKMU/YSKMU



PUHY-P264TSKMU/YSKMU

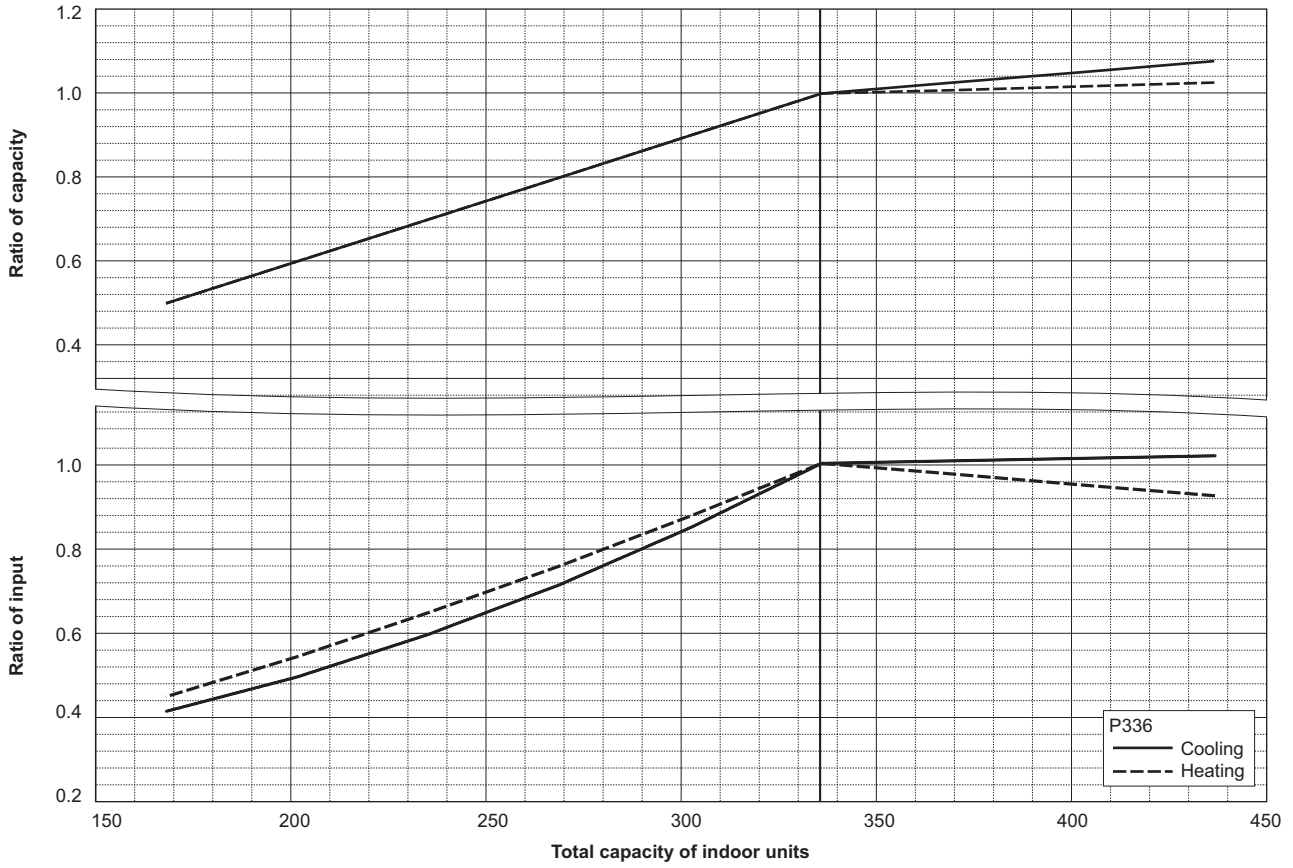




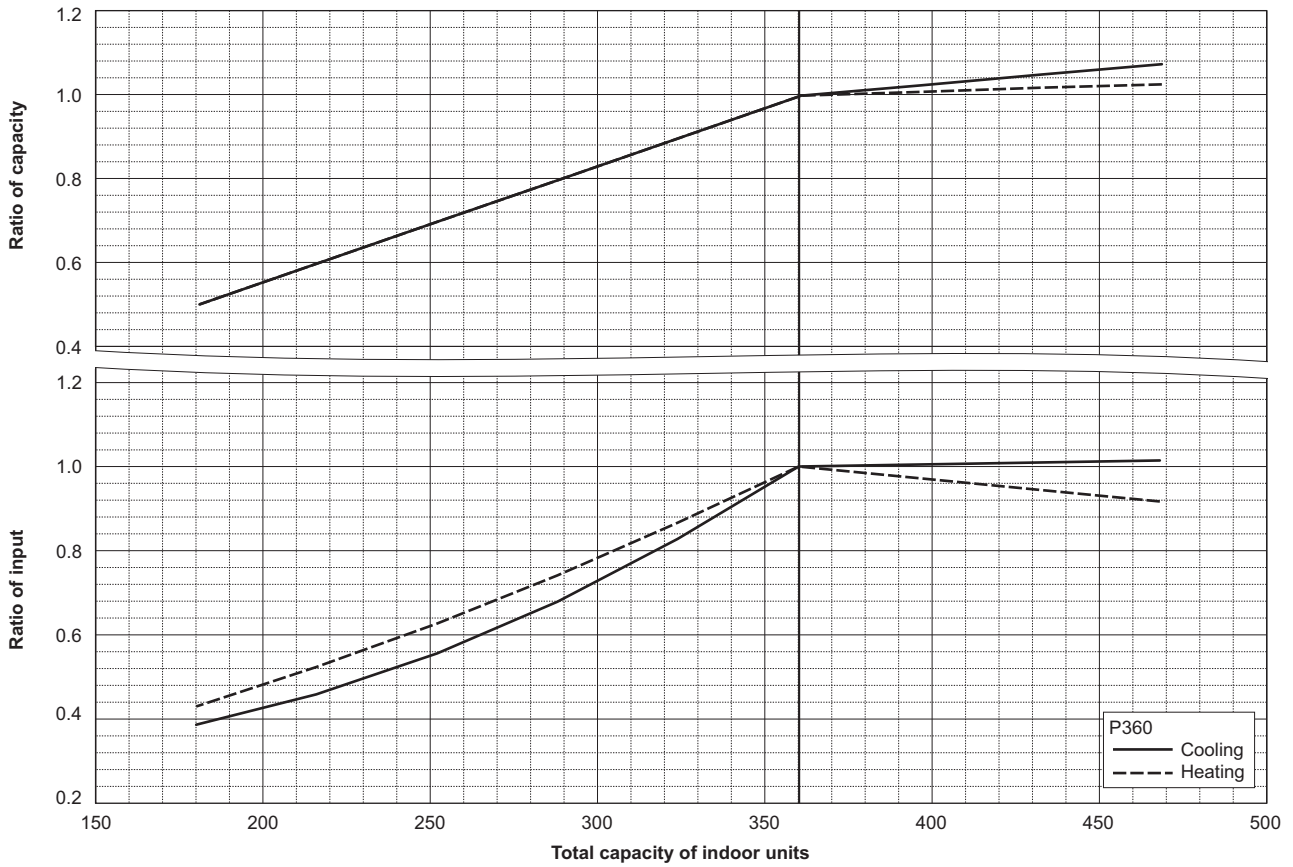
8. CAPACITY TABLES

Y (K)

PUHY-P336TSKMU/YSKMU



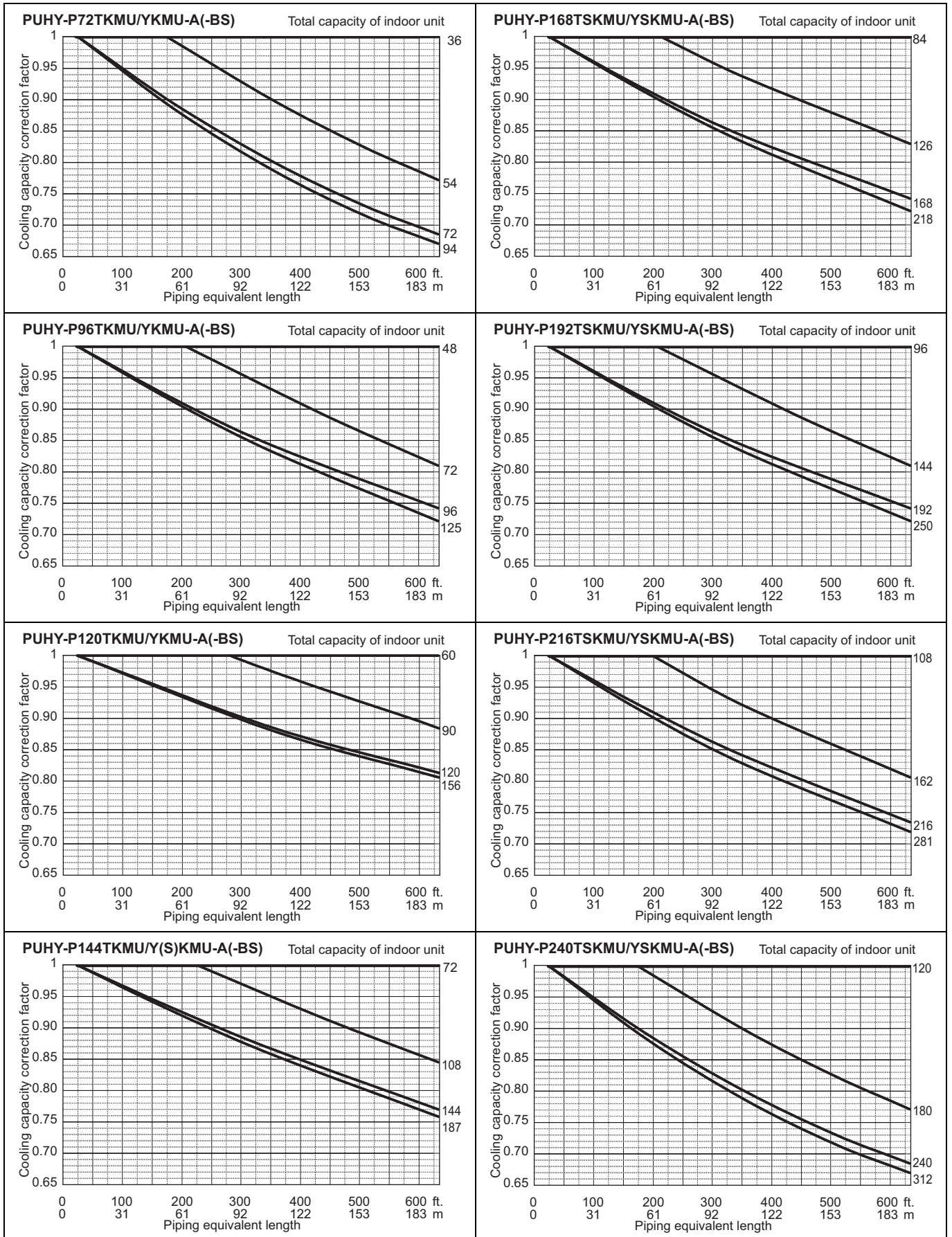
PUHY-P360TSKMU/YSKMU



8-4. Correction by refrigerant piping length

CITY MULTI systems can have extended piping lengths if certain limitations are followed, but cooling/heating capacity could be reduced. Using following correction factor by equivalent piping length shown at 8-4-1 and 8-4-2, capacity can be found. 8-4-3 shows how to obtain the equivalent piping length.

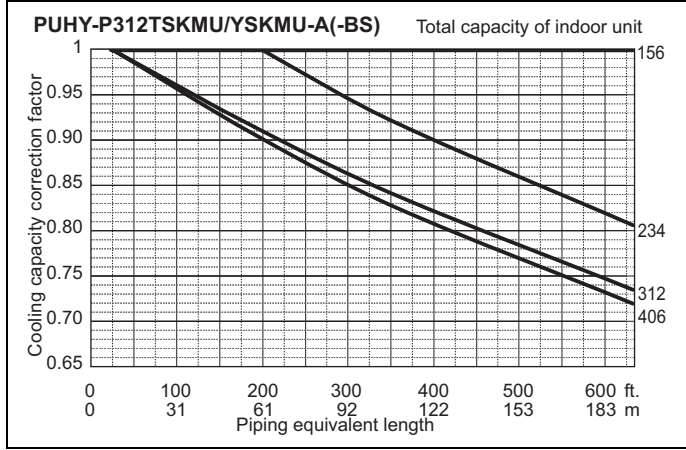
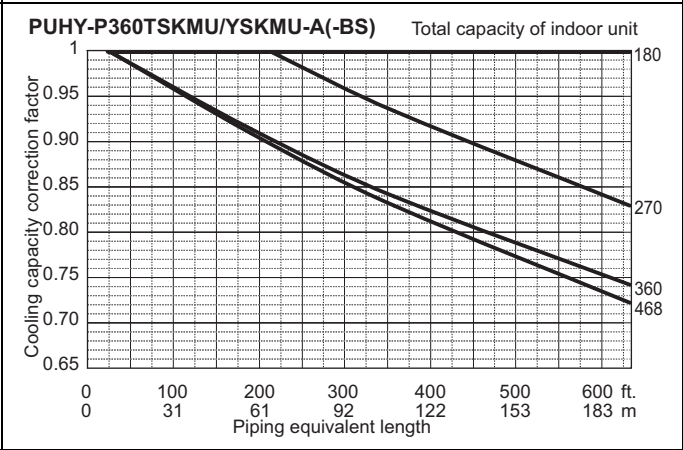
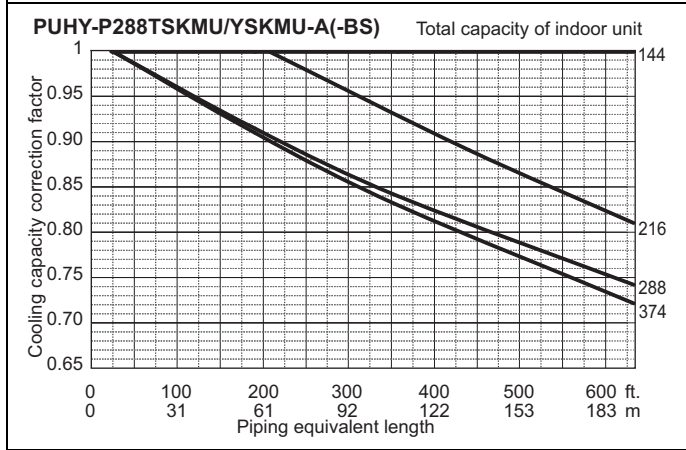
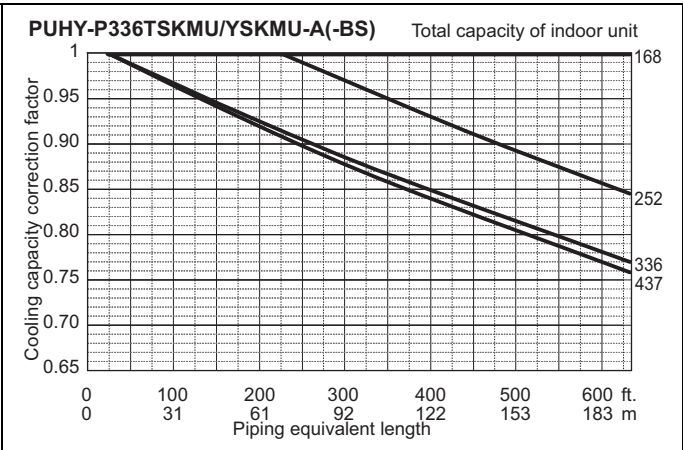
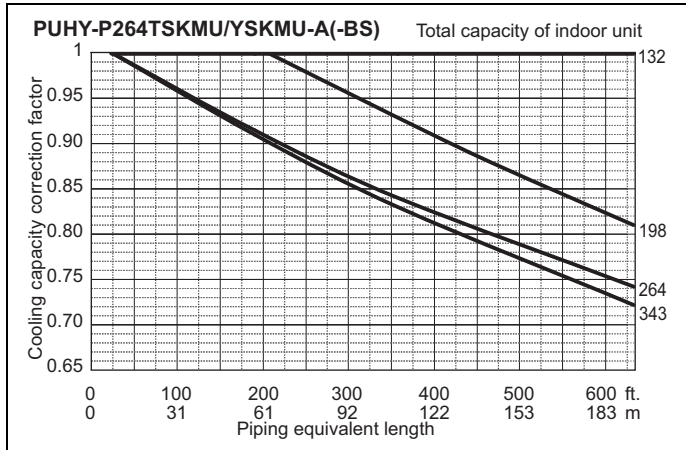
8-4-1. Cooling capacity correction



Y (K)

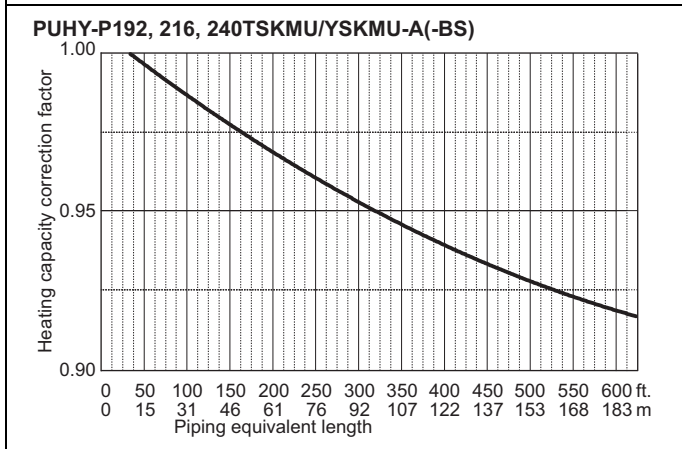
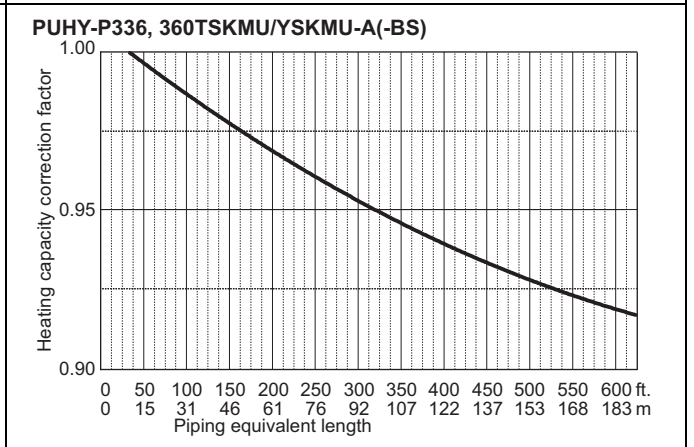
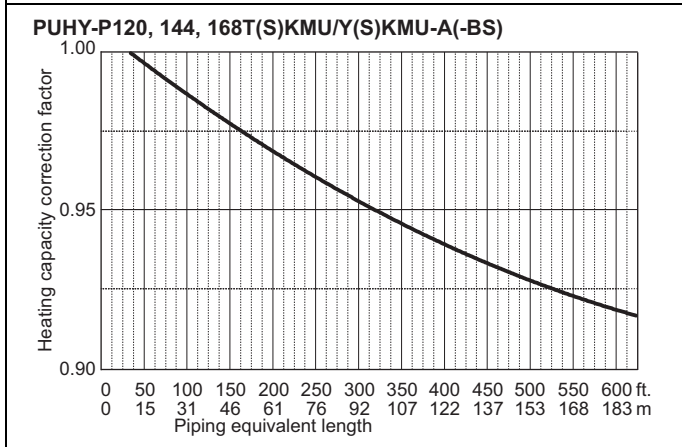
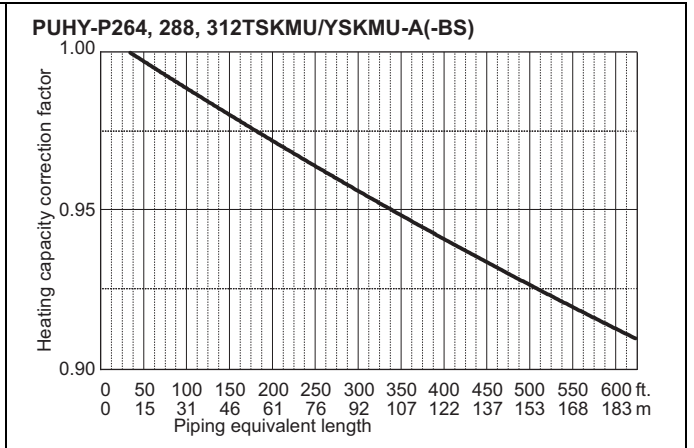
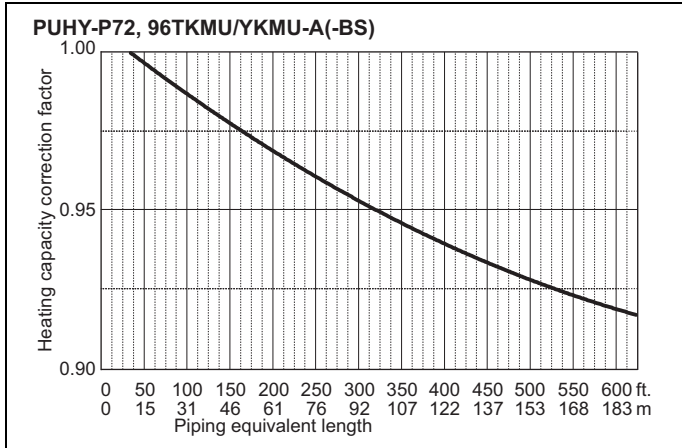
8. CAPACITY TABLES

Y (K)



8-4-2. Heating capacity correction

Y (K)



8-4-3. How to obtain the equivalent piping length**1. PUHY-P72, 96, 120, 144, 168, 192, 216, 240T(S)KMU/Y(S)KMU**

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

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

2. PUHY-P264, 288, 312TSKMU/YSKMU

Equivalent length = (Actual piping length to the farthest indoor unit) + (2.30 x number of bent on the piping) [ft.]

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.70 x number of bent on the piping) [m]

3. PUHY-P336, 360TSKMU/YSKMU

Equivalent length = (Actual piping length to the farthest indoor unit) + (2.63 x number of bent on the piping) [ft.]

Equivalent length = (Actual piping length to the farthest indoor unit) + (0.80 x number of bent on the piping) [m]

8-5. 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 frost and defrost

Outdoor inlet air temp. °C	6	4	2	1	0	-2	-4	-6	-8	-10	-20
Outdoor inlet air temp. °F	43	39	36	34	32	28	25	21	18	14	-4
PUHY-P72TKMU-A (-BS)	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PUHY-P96TKMU-A (-BS)	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PUHY-P120TKMU-A (-BS)	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-P144TKMU-A (-BS)	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-P168TSKMU-A (-BS)	1.00	0.98	0.89	0.87	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-P192TSKMU-A (-BS)	1.00	0.98	0.89	0.86	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-P216TSKMU-A (-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.95	0.95
PUHY-P240TSKMU-A (-BS)	1.00	0.94	0.84	0.86	0.87	0.88	0.90	0.90	0.93	0.95	0.95
PUHY-P264TSKMU-A (-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-P288TSKMU-A (-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-P312TSKMU-A (-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-P336TSKMU-A (-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.95	0.95
PUHY-P360TSKMU-A (-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.95	0.95
PUHY-P72YKMU-A (-BS)	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PUHY-P96YKMU-A (-BS)	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PUHY-P120YKMU-A (-BS)	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-P144YKMU-A (-BS)	1.00	0.93	0.82	0.80	0.82	0.86	0.90	0.90	0.95	0.95	0.95
PUHY-P144YSKMU-A (-BS)	1.00	0.95	0.84	0.83	0.83	0.87	0.90	0.95	0.95	0.95	0.95
PUHY-P168YSKMU-A (-BS)	1.00	0.98	0.89	0.87	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-P192YSKMU-A (-BS)	1.00	0.98	0.89	0.86	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-P216YSKMU-A (-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.95	0.95
PUHY-P240YSKMU-A (-BS)	1.00	0.94	0.84	0.86	0.87	0.88	0.90	0.90	0.93	0.95	0.95
PUHY-P264YSKMU-A (-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-P288YSKMU-A (-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-P312YSKMU-A (-BS)	1.00	0.98	0.89	0.88	0.89	0.90	0.92	0.95	0.95	0.95	0.95
PUHY-P336YSKMU-A (-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.95	0.95
PUHY-P360YSKMU-A (-BS)	1.00	0.94	0.87	0.86	0.87	0.88	0.90	0.90	0.93	0.95	0.95

* The correction factors in the table above are used for a full-load and above.

Use the formula below to calculate the correction factor to use for a partial load.

Correction factor for partial load : K

Correction factor for a full load and above : K_0

Partial load factor : A

$$K = 1 - (1 - K_0) \times A$$

9-1. JOINT

CITY MULTI units can be easily connected by using Joint sets and Header sets provided by Mitsubishi Electric. Four 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

For Gas pipe:

<Reducer(Accessory)>

For Liquid pipe:

<Reducer(Accessory)>

*Pipe diameter is indicated by inside diameter.

CMY-Y102LS-G2

For Gas pipe:

<Reducer(Accessory)>

For Liquid pipe:

<Reducer(Accessory)>

*Pipe diameter is indicated by inside diameter.

CMY-Y202S-G2

For Gas pipe:

<Reducer(Accessory)>

For Liquid pipe:

<Reducer(Accessory)>

*Pipe diameter is indicated by inside diameter.

CMY-Y302S-G2

For Gas pipe:

<Reducer(Accessory)>

For Liquid pipe:

<Reducer(Accessory)>

*Pipe diameter is indicated by inside diameter.

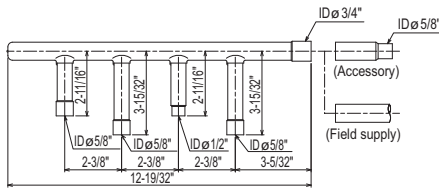
9-2. HEADER

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

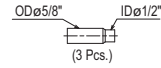
Y (K)

CMY-Y104C-G

For gas pipe:

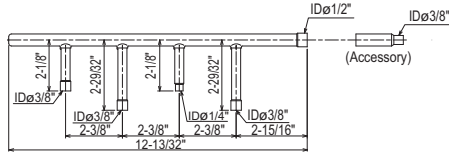


<Reducer(Accessory)>



in.

For liquid pipe:



<Reducer(Accessory)>

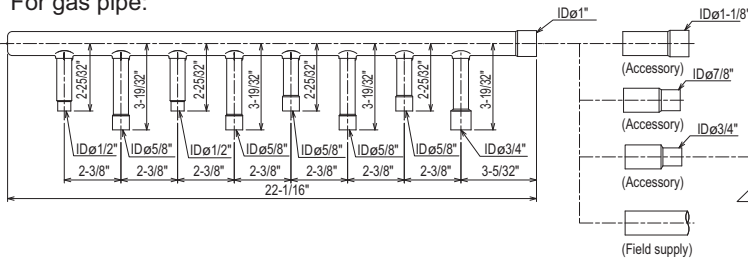


ID: Inner Diameter OD: Outer Diameter

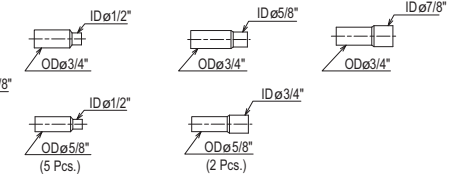
NOTE: Besides above mentioned accessories, caps for ø1/4", ø3/8", ø1/2", ø5/8" pipes (each diameter 1 piece) are included in the Header set.

CMY-Y108C-G

For gas pipe:

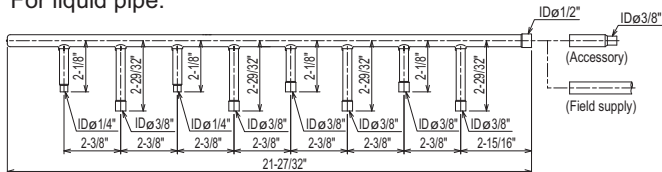


<Reducer(Accessory)>

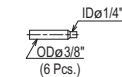


in.

For liquid pipe:



<Reducer(Accessory)>

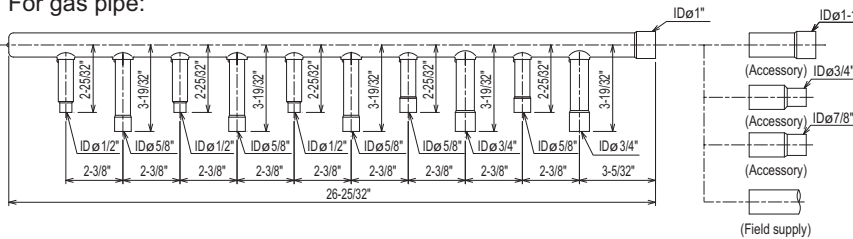


ID: Inner Diameter OD: Outer Diameter

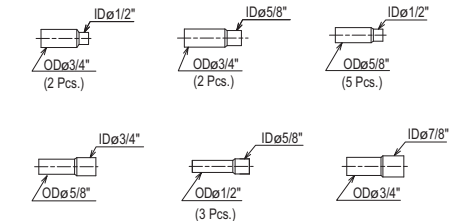
NOTE: Besides above mentioned accessories, caps for ø1/4", ø3/8", ø1/2", ø5/8" pipes (each diameter 2 pieces) and 1 cap for ø3/4" pipe are included in the Header set.

CMY-Y1010C-G

For gas pipe:

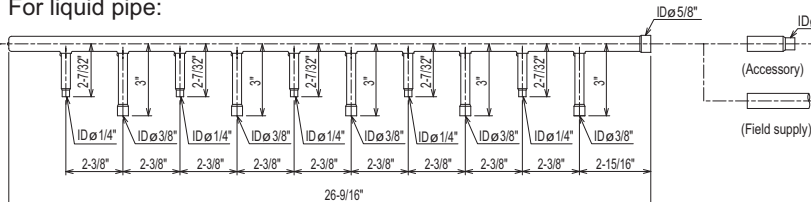


<Reducer(Accessory)>

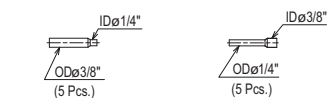


in.

For liquid pipe:



<Reducer(Accessory)>



ID: Inner Diameter OD: Outer Diameter

NOTE: Besides above mentioned accessories, caps for ø1/4", ø3/8", ø1/2", ø5/8" pipes (each diameter 2 pieces) and 1 cap for ø3/4" pipe are included in the Header set.

9-3. 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-Y100CBK3

For Gas pipe: For Liquid pipe: <Reducer(Accessory)> in.

The diagram for CMY-Y100CBK3 shows two main views: 'For Gas pipe' and 'For Liquid pipe'. The 'For Gas pipe' view includes dimensions such as 19-29/32", 23-5/32", 6-5/16", and 23-5/32". It labels components like 'Pipe cover (Dot-dashed part)', 'Local brazing', 'Distributor', and 'OD φ 1"'. The 'For Liquid pipe' view shows dimensions like 7-7/32", 9-1/2", and 3-7/8", with labels for 'Local brazing', 'Pipe cover (Dot-dashed part)', and 'Distributor'. The '<Reducer(Accessory)>' section shows four different reducer configurations with dimensions like 1-15/16", 2-15/32", and 2-15/32".

ID: Inner Diameter OD: Outer Diameter

CMY-Y200CBK2

For Gas pipe: For Liquid pipe: <Deformed pipe(Accessory)> in.

The diagram for CMY-Y200CBK2 shows two main views: 'For Gas pipe' and 'For Liquid pipe'. The 'For Gas pipe' view includes dimensions such as 19-13/16", 23-1/16", 6-7/16", and 23-1/16". It labels components like 'Pipe cover (Dot-dashed part)', 'Local brazing', 'Distributor', and 'OD φ 1-1/8"'. The 'For Liquid pipe' view shows dimensions like 7-9/16", 9-5/8", and 1-15", with labels for 'Local brazing', 'Pipe cover (Dot-dashed part)', and 'Distributor'. The '<Deformed pipe(Accessory)>' section shows two different deformed pipe configurations with dimensions like 1-15/16", 2-3/4", and 1-15/16".

ID: Inner Diameter OD: Outer Diameter

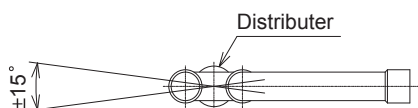
CMY-Y300CBK2

For Gas pipe: For Liquid pipe: <Reducer(Accessory)> in.

The diagram for CMY-Y300CBK2 shows two main views: 'For Gas pipe' and 'For Liquid pipe'. The 'For Gas pipe' view includes dimensions such as 19-15/16", 22-15/16", 6-7/16", and 23-1/16". It labels components like 'Pipe cover (Dot-dashed part)', 'Local brazing', 'Distributor', and 'OD φ 1-1/8"'. The 'For Liquid pipe' view shows dimensions like 7-9/16", 9-11/16", 4-3/16", and 9-5/8", with labels for 'Local brazing', 'Pipe cover (Dot-dashed part)', and 'Distributor'. The '<Reducer(Accessory)>' section shows four different reducer configurations with dimensions like 2-3/4", 2-1/2", 1-15/16", and 2-1/2".

ID: Inner Diameter OD: Outer Diameter

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



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

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