

July 2009

No. OCS16

TECHNICAL DATA BOOK R410A

<Indoor unit>

INVERTER

[Model names]

PLA-RP-BA/BA2/BA3
PEAD-RP-JA(L)
PEA-RP-GA
PKA-RP-HAL
PKA-RP-KAL
PCA-RP-KA
PCA-RP-HA
PSA-RP-GA

<Outdoor unit>

[Model names]

PUHZ-RP35/50/60/71VHA4
PUHZ-RP100/125/140VKA
PUHZ-RP100/125/140YKA
PUHZ-RP200/250YKA

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kW Model



For information on service, please refer to the service manual as follows.

1-1. INDOOR UNIT SERVICE MANUAL

Model name	Service Ref.	Service Manual No.
PLA-RP35/50/60/71/100/125BA PLA-RP71/125/140BA2	PLA-RP35/50/60/71/100/125BA#2.UK PLA-RP71/125/140BA2.UK	OCH412 OCB412
PLA-RP100BA3	PLA-RP100BA3	OCH459 OCB459
PCA-RP50/60/71/100/125/140KA	PCA-RP50/60/71/100/125/140KA	OCH454 OCB454
PCA-RP71/125HA	PCA-RP71/125HA#1	OC329
PKA-RP35/50HAL	PKA-RP35/50HAL	OCH453 OCB453
PKA-RP60/71/100KAL	PKA-RP60/71/100KAL.TH	OCH452 OCB452
PSA-RP71/100/125/140GA	PSA-RP71/100/125/140GA#1	OC332
PEAD-RP35/50/60/71/100/125/140JA(L)	PEAD-RP35/50/60/71/100/125/140JA(L).UK	HWE08130 BWE08240
PEA-RP200/250/400/500GA	PEA-RP200/250/400/500GA.TH-AF PEA-RP200/250GA.TH-AFMF	HWE0708A

1-2. OUTDOOR UNIT

Model name	Service Ref.	Service Manual No.
PUHZ-RP35/50/60/71VHA4 PUHZ-RP100/125/140VKA PUHZ-RP100/125/140YKA PUHZ-RP200/250YKA	PUHZ-RP35/50/60/71VHA4 PUHZ-RP100/125/140VKA PUHZ-RP100/125/140YKA PUHZ-RP200/250YKA	OCH451 OCB451

2-1. CEILING CASSETTE TYPE

Model name	Indoor unit		PLA-RP35BA	PLA-RP50BA
	Outdoor unit		PUHZ-RP35VHA4	PUHZ-RP50VHA4
Cooling	Capacity	Btu/h	12,300	17,100
		kW	3.6(1.6-4.5)	5.0(2.3-5.6)
	Total input	kW	1.07	1.55
	EER		3.36	3.23
	Energy label class		A	A
	SHF		0.84	0.81
Heating	Capacity	Btu/h	14,000	20,500
		kW	4.1(1.6-5.2)	6.0(2.5-7.3)
	Total input	kW	1.12	1.66
	COP		3.66	3.61
	Energy label class		A	A
	Booster heater	kW	-	-
Power supply	Phase	ϕ	1	
	Cycle	Hz	50	
	Voltage	V	230	
	Breaker size	A	16	
Indoor unit	Air flow (Low-Medium2-Medium1-High)	CMM	11-12-13-15	12-14-16-18
		CFM	390-425-460-530	425-495-565-635
	External pressure	Pa	0	0
	Sound level (Low-Medium2-Medium1-High)	dB(A)	27-28-29-31	28-29-31-32
	External finish (Panel)		White Munsell 6.4Y 8.9/0.4	
	Dimension Unit (Panel)	W : mm	840 (950)	
		D : mm	840 (950)	
		H : mm	258 (35)	
		W : inch	33-1/16 (37-3/8)	
		D : inch	33-1/16 (37-3/8)	
		H : inch	10-3/16 (1-3/8)	
	Weight	kg	22(6)	
	Unit (Panel)	lbs	49(13)	
Field drain pipe O.D.	mm	32		
	inch	1-1/4		
Outdoor unit	Air flow	CMM	35	
		CFM	1,240	
	Sound level at cooling	dB(A)	44	
	Sound level at heating	dB(A)	46	
	External finish		Ivory Munsell 3Y 7.8/1.1	
	Dimension	W : mm	800	
		D : mm	300+23	
		H : mm	600	
		W : inch	31-1/2	
		D : inch	11-13/16 + 7/8	
H : inch		23-5/8		
Weight	kg	42		
	lbs	93		
Refrigerant pipe size	Gas side O.D.	mm	12.7	
		inch	1/2	
	Liquid side O.D.	mm	6.35	
		inch	1/4	
Refrigerant pipe length	Height difference	m	Max. 30	
	Length	m	Max. 50	

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -11°C, W.B. -12°C

3. Guaranteed voltage

198~264V, 50Hz

4. Above data are based on the indicated voltage.

Indoor unit Single phase 230V 50Hz

Outdoor unit Single phase 230V 50Hz

* If optional air protect guide installed. D.B. -15°C

Model name	Indoor unit		PLA-RP60BA	PLA-RP71BA
	Outdoor unit		PUHZ-RP60VHA4	PUHZ-RP71VHA4
Cooling	Capacity	Btu/h	20,500	24,200
		kW	6.0(2.7-6.7)	7.1(3.3-8.1)
	Total input	kW	1.60	2.09
	EER		3.75	3.40
	Energy label class		A	-
	SHF		0.76	0.73
Heating	Capacity	Btu/h	23,900	27,300
		kW	7.0(2.8-8.2)	8.0(3.5-10.2)
	Total input	kW	1.82	2.15
	COP		3.85	3.72
	Energy label class		A	-
	Booster heater	kW	-	-
Power supply	Phase	ϕ	1	
	Cycle	Hz	50	
	Voltage	V	230	
	Breaker size	A	25	
Indoor unit	Air flow (Low-Medium2-Medium1-High)	CMM	12-14-16-18	14-16-18-21
		CFM	425-495-565-635	495-565-635-740
	External pressure	Pa	0	0
	Sound level (Low-Medium2-Medium1-High)	dB(A)	28-29-31-32	28-30-32-34
	External finish (Panel)		White Munsell 6.4Y 8.9/0.4	
	Dimension Unit (Panel)	W : mm	840 (950)	
		D : mm	840 (950)	
		H : mm	258 (35)	
		W : inch	33-1/16 (37-3/8)	
		D : inch	33-1/16 (37-3/8)	
		H : inch	10-3/16 (1-3/8)	
	Weight Unit (Panel)	kg	23(6)	
		lbs	51(13)	
Field drain pipe O.D.	mm	32		
	inch	1-1/4		
Outdoor unit	Air flow	CMM	60	
		CFM	2,120	
	Sound level at cooling	dB(A)	47	
	Sound level at heating	dB(A)	48	
	External finish		Ivory Munsell 3Y 7.8/1.1	
	Dimension	W : mm	950	
		D : mm	330+30	
		H : mm	943	
		W : inch	37-3/8	
		D : inch	13 + 1-3/16	
		H : inch	37-1/8	
	Weight	kg	67	
		lbs	148	
Refrigerant pipe size	Gas side O.D.	mm	15.88	
		inch	5/8	
	Liquid side O.D.	mm	9.52	
		inch	3/8	
Refrigerant pipe length	Height difference	m	Max. 30	
	Length	m	Max. 50	

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

3. Guaranteed voltage
198~264V, 50Hz

4. Above data are based on the indicated voltage.
Indoor unit Single phase 230V 50Hz
Outdoor unit Single phase 230V 50Hz

* If optional air protect guide installed. D.B.-15°C



Model name	Indoor unit		PLA-RP71BA2	PLA-RP100BA	PLA-RP100BA3
	Outdoor unit		PUHZ-RP71VHA4	PUHZ-RP100VKA	PUHZ-RP100VKA
Cooling	Capacity	Btu/h	24,200	34,100	34,100
		kW	7.1(3.3-8.1)	10.0(4.9-11.4)	10.0(4.9-11.4)
	Total input	kW	1.90	2.65	2.39
	EER		3.74	3.77	4.18
	Energy label class		A	-	A
	SHF		0.73	0.74	0.74
Heating	Capacity	Btu/h	27,300	38,200	38,200
		kW	8.0(3.5-10.2)	11.2(4.5-14.0)	11.2(4.5-14.0)
	Total input	kW	1.90	2.79	2.43
	COP		4.21	4.01	4.61
	Energy label class		A	-	A
	Booster heater	kW	-	-	-
Power supply	Phase	φ	1		
	Cycle	Hz	50		
	Voltage	V	230		
	Breaker size	A	25	32	
Indoor unit	Air flow (Low-Medium2-Medium1-High)	CMM	14-16-18-21	20-23-26-30	
		CFM	495-565-635-740	710-810-920-1060	
	External pressure	Pa	0	0	
	Sound level (Low-Medium2-Medium1-High)	dB(A)	28-30-32-34	32-34-37-40	
	External finish (Panel)		White Munsell 6.4Y 8.9/0.4		
	Dimension Unit (Panel)	W : mm	840 (950)		
		D : mm	840 (950)		
		H : mm	258 (35)	298 (35)	
		W : inch	33-1/16 (37-3/8)		
		D : inch	33-1/16 (37-3/8)		
		H : inch	10-3/16 (1-3/8)	11-3/4 (1-3/8)	
	Weight Unit (Panel)	kg	23(6)	25(6)	26(6)
		lbs	51(13)	55(13)	57(13)
	Field drain pipe O.D.	mm	32		
inch		1-1/4			
Outdoor unit	Air flow	CMM	60	110	
		CFM	2,120	3,880	
	Sound level at cooling	dB(A)	47	49	
	Sound level at heating	dB(A)	48	51	
	External finish		Ivory Munsell 3Y 7.8/1.1		
	Dimension	W : mm	950	1,050	
		D : mm	330+30		
		H : mm	943	1,338	
		W : inch	37-3/8	41-5/16	
		D : inch	13 + 1-3/16		
		H : inch	37-1/8	52-11/16	
Weight	kg	67	116		
	lbs	148	256		
Refrigerant pipe size	Gas side O.D.	mm	15.88		
		inch	5/8		
	Liquid side O.D.	mm	9.52		
		inch	3/8		
Refrigerant pipe length	Height difference	m	Max. 30		
	Length	m	Max. 50	Max. 75	

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

3. Guaranteed voltage
198~264V, 50Hz

4. Above data are based on the indicated voltage.
Indoor unit Single phase 230V 50Hz
Outdoor unit Single phase 230V 50Hz

* If optional air protect guide installed. D.B. -15°C



Model name	Indoor unit		PLA-RP125BA	PLA-RP125BA2	PLA-RP140BA2
	Outdoor unit		PUHZ-RP125VKA	PUHZ-RP125VKA	PUHZ-RP140VKA
Cooling	Capacity	Btu/h	42,700	42,700	47,800
		kW	12.5(5.5-14.0)	12.5(5.5-14.0)	14.0(6.2-15.3)
	Total input	kW	3.83	3.67	4.36
	EER		3.26	3.41	3.21
	Energy label class		-	A	A
	SHF		0.71	0.71	0.71
Heating	Capacity	Btu/h	47,800	47,800	54,600
		kW	14.0(5.0-16.0)	14.0(5.0-16.0)	16.0(5.7-18.0)
	Total input	kW	3.86	3.50	4.32
	COP		3.63	4.00	3.70
	Energy label class		-	A	A
	Booster heater	kW	-	-	-
Power supply	Phase	φ	1		
	Cycle	Hz	50		
	Voltage	V	230		
	Breaker size	A	32		40
Indoor unit	Air flow (Low-Medium2-Medium1-High)	CMM	22-25-28-31	22-25-28-31	24-26-29-32
		CFM	780-880-990-1090	780-880-990-1090	850-920-1020-1130
	External pressure	Pa	0	0	0
	Sound level (Low-Medium2-Medium1-High)	dB(A)	34-36-39-41	34-36-39-41	36-39-42-44
	External finish (Panel)		White Munsell 6.4Y 8.9/0.4		
	Dimension Unit (Panel)	W : mm	840 (950)		
		D : mm	840 (950)		
		H : mm	298 (35)		
		W : inch	33-1/16 (37-3/8)		
		D : inch	33-1/16 (37-3/8)		
		H : inch	11-3/4 (1-3/8)		
	Weight	kg	25(6)	27(6)	27(6)
	Unit (Panel)	lbs	55(13)	60(13)	60(13)
	Field drain pipe O.D.	mm	32		
inch		1-1/4			
Outdoor unit	Air flow	CMM	120		
		CFM	4,230		
	Sound level at cooling	dB(A)	50		
	Sound level at heating	dB(A)	52		
	External finish		Ivory Munsell 3Y 7.8/1.1		
	Dimension	W : mm	1,050		
		D : mm	330+30		
		H : mm	1,338		
		W : inch	41-5/16		
		D : inch	13 + 1-3/16		
		H : inch	52-11/16		
Weight	kg	116	119		
	lbs	256	262		
Refrigerant pipe size	Gas side O.D.	mm	15.88		
		inch	5/8		
	Liquid side O.D.	mm	9.52		
		inch	3/8		
Refrigerant pipe length	Height difference	m	Max. 30		
	Length	m	Max. 75		

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

3. Guaranteed voltage
198~264V, 50Hz

4. Above data are based on the indicated voltage.
Indoor unit Single phase 230V 50Hz
Outdoor unit Single phase 230V 50Hz

* If optional air protect guide installed. D.B.-15°C



Model name	Indoor unit		PLA-RP100BA	PLA-RP100BA3	
	Outdoor unit		PUHZ-RP100YKA	PUHZ-RP100YKA	
Cooling	Capacity	Btu/h	34,100	34,100	
		kW	10.0(4.9-11.4)	10.0(4.9-11.4)	
	Total input	kW	2.65	2.39	
	EER		3.77	4.18	
	Energy label class		-	A	
	SHF		0.74	0.74	
Heating	Capacity	Btu/h	38,200	38,200	
		kW	11.2(4.5-14.0)	11.2(4.5-14.0)	
	Total input	kW	2.79	2.43	
	COP		4.01	4.61	
	Energy label class		-	A	
	Booster heater		kW	-	-
Power supply	Phase	φ	3		
	Cycle	Hz	50		
	Voltage	V	400		
	Breaker size	A	16		
Indoor unit	Air flow (Low-Medium2-Medium1-High)	CMM	20-23-26-30	20-23-26-30	
		CFM	710-810-920-1,060	710-810-920-1,060	
	External pressure	Pa	0	0	
	Sound level (Low-Medium2-Medium1-High)	dB(A)	32-34-37-40	32-34-37-40	
	External finish (Panel)		White Munsell 6.4Y 8.9/0.4		
	Dimension Unit (Panel)	W : mm	840 (950)		
		D : mm	840 (950)		
		H : mm	298 (35)		
		W : inch	33-1/16 (37-3/8)		
		D : inch	33-1/16 (37-3/8)		
		H : inch	11-3/4 (1-3/8)		
	Weight Unit (Panel)	kg	25 (6)	26 (6)	
		lbs	55 (13)	57 (13)	
Field drain pipe O.D.	mm	32			
	inch	1-1/4			
Outdoor unit	Air flow	CMM	110		
		CFM	3,880		
	Sound level at cooling	dB(A)	49		
	Sound level at heating	dB(A)	51		
	External finish		Ivory Munsell 3Y 7.8/1.1		
	Dimension	W : mm	1,050		
		D : mm	330+30		
		H : mm	1,338		
		W : inch	41-5/16		
		D : inch	13 + 1-3/16		
		H : inch	52-11/16		
	Weight	kg	124		
		lbs	273		
Refrigerant pipe size	Gas side O.D.	mm	15.88		
		inch	5/8		
	Liquid side O.D.	mm	9.52		
		inch	3/8		
Refrigerant pipe length	Height difference	m	Max. 30		
	Length	m	Max. 75		

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

3. Guaranteed voltage

Indoor unit 198~264V, 50Hz
Outdoor unit 342~457V, 50Hz

4. Above data are based on the indicated voltage.

Indoor unit Single phase 230V 50Hz

Outdoor unit 3 phase 400V 50Hz

* If optional air protect guide installed. D.B. -15°C



Model name	Indoor unit		PLA-RP125BA	PLA-RP125BA2	PLA-RP140BA2
	Outdoor unit		PUHZ-RP125YKA	PUHZ-RP125YKA	PUHZ-RP140YKA
Cooling	Capacity	Btu/h	42,700	42,700	47,800
		kW	12.5(5.5-14.0)	12.5(5.5-14.0)	14.0(6.2-15.3)
	Total input	kW	3.83	3.67	4.36
	EER		3.26	3.41	3.21
	Energy label class			A	A
	SHF			0.71	0.71
Heating	Capacity	Btu/h	47,800	47,800	54,600
		kW	14.0(5.0-16.0)	14.0(5.0-16.0)	16.0(5.7-18.0)
	Total input	kW	3.86	3.50	4.32
	COP			3.63	4.00
	Energy label class			-	A
	Booster heater		kW	-	-
Power supply	Phase	ϕ	3		
	Cycle	Hz	50		
	Voltage	V	400		
	Breaker size	A	16		
Indoor unit	Air flow (Low-Medium2-Medium1-High)	CMM	22-25-28-31	22-25-28-31	24-26-29-32
		CFM	780-880-990-1090	780-880-990-1090	850-920-1020-1130
	External pressure	Pa	0	0	0
	Sound level (Low-Medium2-Medium1-High)	dB(A)	34-36-39-41	34-36-39-41	36-39-42-44
	External finish (Panel)		White Munsell 6.4Y 8.9/0.4		
	Dimension Unit (Panel)	W : mm	840 (950)		
		D : mm	840 (950)		
		H : mm	298 (35)		
		W : inch	33-1/16 (37-3/8)		
		D : inch	33-1/16 (37-3/8)		
		H : inch	11-3/4 (1-3/8)		
	Weight Unit (Panel)	kg	25(6)	27(6)	27(6)
		lbs	55(13)	60(13)	60(13)
Field drain pipe O.D.	mm	32			
	inch	1-1/4			
Outdoor unit	Air flow	CMM	120		
		CFM	4,230		
	Sound level at cooling	dB(A)	50		
	Sound level at heating	dB(A)	52		
	External finish		Ivory Munsell 3Y 7.8/1.1		
	Dimension	W : mm	1,050		
		D : mm	330+30		
		H : mm	1,338		
		W : inch	41-5/16		
		D : inch	13 + 1-3/16		
		H : inch	52-11/16		
Weight	kg	126	132		
	lbs	278	291		
Refrigerant pipe size	Gas side O.D.	mm	15.88		
		inch	5/8		
	Liquid side O.D.	mm	9.52		
		inch	3/8		
Refrigerant pipe length	Height difference	m	Max. 30		
	Length	m	Max. 75		

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

3. Guaranteed voltage

Indoor unit 198~264V, 50Hz
Outdoor unit 342~457V, 50Hz

4. Above data are based on the indicated voltage.

Indoor unit Single phase 230V 50Hz
Outdoor unit 3 phase 400V 50Hz

* If optional air protect guide installed. D.B. -15°C

2-2. CEILING-CONCEALED TYPE

Model name	Indoor unit		PEAD-RP35JA(L)	PEAD-RP50JA(L)
	Outdoor unit		PUHZ-RP35VHA4	PUHZ-RP50VHA4
Cooling	Capacity	Btu/h	12,300	17,100
		kW	3.6(1.6-4.5)	5.0(2.3-5.6)
	Total input	kW	1.02(1.00)	1.55(1.53)
	EER		3.53(3.60)	3.23(3.27)
	Energy label class		A	A
	SHF		0.85	0.84
Heating	Capacity	Btu/h	14,000	20,500
		kW	4.1(1.6-5.2)	6.0(2.5-7.3)
	Total input	kW	1.10	1.56
	COP		3.73	3.85
	Energy label class		A	A
	Booster heater	kW	-	-
Power supply	Phase	ϕ	1	
	Cycle	Hz	50	
	Voltage	V	230	
	Breaker size	A	16	
Indoor unit	Air flow (Low-Middle-High)	CMM	10-12-14	12-14.5-17
		CFM	353-424-494	424-512-600
	External pressure	Pa	35/50/70/100/150	
	Sound level (Low-Middle-High/ 50Pa)	dB(A)	23-27-30	26-31-35
	External finish		Galvanized sheets	
	Dimension	W : mm	900	
		D : mm	732	
		H : mm	250	
		W : inch	35-7/16	
		D : inch	28-7/8	
		H : inch	9-7/8	
	Weight	kg	26(25)	28(27)
		lbs	58(56)	62(60)
	Field drain pipe O.D.	mm	32	
inch		1-1/4		
Outdoor unit	Air flow	CMM	35	
		CFM	1,240	
	Sound level at cooling	dB(A)	44	
	Sound level at heating	dB(A)	46	
	External finish		Ivory Munsell 3Y 7.8/1.1	
	Dimension	W : mm	800	
		D : mm	300+23	
		H : mm	600	
		W : inch	31-1/2	
		D : inch	11-13/16 + 7/8	
		H : inch	23-5/8	
Weight	kg	42		
	lbs	93		
Refrigerant pipe size	Gas side O.D.	mm	12.7	
		inch	1/2	
	Liquid side O.D.	mm	6.35	
		inch	1/4	
Refrigerant pipe length	Height difference	m	Max. 30	
	Length	m	Max. 50	

- NOTE:**
- Rating conditions (ISO T1)
 Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
 Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
 Refrigerant piping length (one way) : 5m (16ft.)

- Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -11°C, W.B. -12°C

- Guaranteed voltage
198~264V, 50Hz
- Above data are based on the indicated voltage.
 Indoor unit Single phase 230V 50Hz
 Outdoor unit Single phase 230V 50Hz
 * If optional air protect guide installed. D.B. -15°C



Model name	Indoor unit		PEAD-RP60JA(L)	PEAD-RP71JA(L)
	Outdoor unit		PUHZ-RP60VHA4	PUHZ-RP71VHA4
Cooling	Capacity	Btu/h	20,500	24,200
		kW	6.0(2.7-6.7)	7.1(3.3-8.1)
	Total input	kW	1.60(1.58)	2.03(2.01)
	EER		3.75(3.80)	3.50(3.53)
	Energy label class		A	A
	SHF		0.83	0.83
Heating	Capacity	Btu/h	23,900	27,300
		kW	7.0(2.8-8.2)	8.0(3.5-10.2)
	Total input	kW	1.75	2.00
	COP		4.00	4.00
	Energy label class		A	A
	Booster heater	kW	-	-
Power supply	Phase	ϕ	1	
	Cycle	Hz	50	
	Voltage	V	230	
	Breaker size	A	25	
Indoor unit	Air flow (Low-Middle-High)	CMM	14.5-18-21	17.5-21-25
		CFM	512-636-742	618-742-883
	External pressure	Pa	35/50/70/100/150	
	Sound level (Low-Middle-High/ 50Pa)	dB(A)	25-29-33	26-30-34
	External finish		Galvanized sheets	
	Dimension	W : mm	1,100	
		D : mm	732	
		H : mm	250	
		W : inch	43-5/16	
		D : inch	28-7/8	
		H : inch	9-7/8	
	Weight	kg	33(32)	33(32)
		lbs	73(71)	73(71)
	Field drain pipe O.D.	mm	32	
inch		1-1/4		
Outdoor unit	Air flow	CMM	60	60
		CFM	2,120	2,120
	Sound level at cooling	dB(A)	47	47
	Sound level at heating	dB(A)	48	48
	External finish		Ivory Munsell 3Y 7.8/1.1	
	Dimension	W : mm	950	950
		D : mm	330+30	330+30
		H : mm	943	943
		W : inch	37-3/8	37-3/8
		D : inch	13 + 1-3/16	13 + 1-3/16
		H : inch	37-1/8	37-1/8
Weight	kg	67		
	lbs	148		
Refrigerant pipe size	Gas side O.D.	mm	15.88	15.88
		inch	5/8	5/8
	Liquid side O.D.	mm	9.52	9.52
		inch	3/8	3/8
Refrigerant pipe length	Height difference	m	Max. 30	Max. 30
	Length	m	Max. 50	Max. 50

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

3. Guaranteed voltage

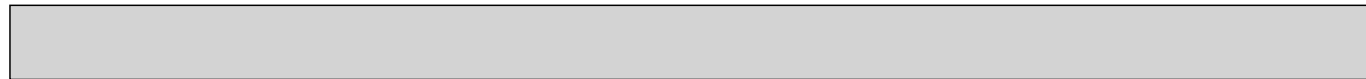
198~264V, 50Hz

4. Above data are based on the indicated voltage.

Indoor unit Single phase 230V 50Hz

Outdoor unit Single phase 230V 50Hz

* If optional air protect guide installed. D.B.-15°C



Model name	Indoor unit		PEAD-RP100JA(L)	PEAD-RP125JA(L)	PEAD-RP140JA(L)
	Outdoor unit		PUHZ-RP100VKA	PUHZ-RP125VKA	PUHZ-RP140VKA
Cooling	Capacity	Btu/h	34,100	42,700	47,800
		kW	10.0(4.9-11.4)	12.5(5.5-14.0)	14.0(6.2-15.3)
	Total input	kW	2.77(2.75)	3.86(3.84)	4.36(4.34)
	EER		3.61(3.64)	3.24(3.26)	3.21(3.23)
	Energy label class		A	A	A
	SHF		0.82	0.84	0.83
Heating	Capacity	Btu/h	38,200	47,800	54,600
		kW	11.2(4.5-14.0)	14.0(5.0-16.0)	16.0(5.7-18.0)
	Total input	kW	2.72	3.50	4.04
	COP		4.12	4.00	3.96
	Energy label class		A	A	A
	Booster heater	kW	-	-	-
Power supply	Phase	φ	1		
	Cycle	Hz	50		
	Voltage	V	230		
	Breaker size	A	32		40
Indoor unit	Air flow (Low-Middle-High)	CMM	24-29-34	29.5-35.5-42	32-39-46
		CFM	847-1,024-1,201	1,042-1,253-1,483	1,130-1,377-1,624
	External pressure	Pa	35/50/70/100/150		
	Sound level (Low-Middle-High/50Pa)	dB(A)	29-34-38	33-36-40	34-38-43
	External finish		Galvanized sheets		
	Dimension	W : mm	1,400		1,600
		D : mm	732		
		H : mm	250		
		W : inch	55-1/8		63
		D : inch	28-7/8		
		H : inch	9-7/8		
	Weight	kg	41(40)	43(42)	47(46)
		lbs	91(89)	95(93)	104(102)
	Field drain pipe O.D.	mm	32		
inch		1-1/4			
Outdoor unit	Air flow	CMM	110	120	
		CFM	3,880	4,230	
	Sound level at cooling	dB(A)	49	50	
	Sound level at heating	dB(A)	51	52	
	External finish		Ivory Munsell 3Y 7.8/1.1		
	Dimension	W : mm	1,050		
		D : mm	330+30		
		H : mm	1,338		
		W : inch	41-5/16		
		D : inch	13 + 1-3/16		
H : inch		52-11/16			
Weight	kg	116	116	119	
	lbs	256	256	262	
Refrigerant pipe size	Gas side O.D.	mm	15.88		
		inch	5/8		
	Liquid side O.D.	mm	9.52		
		inch	3/8		
Refrigerant pipe length	Height difference	m	Max. 30		
	Length	m	Max. 75		

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

3. Guaranteed voltage
198~264V, 50Hz

4. Above data are based on the indicated voltage.
Indoor unit Single phase 230V 50Hz
Outdoor unit Single phase 230V 50Hz

* If optional air protect guide installed. D.B. -15°C



Model name	Indoor unit		PEAD-RP100JA(L)	PEAD-RP125JA(L)	PEAD-RP140JA(L)
	Outdoor unit		PUHZ-RP100YKA	PUHZ-RP125YKA	PUHZ-RP140YKA
Cooling	Capacity	Btu/h	34,100	42,700	47,800
		kW	10.0(4.9-11.4)	12.5(5.5-14.0)	14.0(6.2-15.3)
	Total input	kW	2.77(2.75)	3.86(3.84)	4.36(4.34)
	EER		3.61(3.64)	3.24(3.26)	3.21(3.23)
	Energy label class		A	A	A
	SHF		0.82	0.84	0.83
Heating	Capacity	Btu/h	38,200	47,800	54,600
		kW	11.2(4.5-14.0)	14.0(5.0-16.0)	16.0(5.7-18.0)
	Total input	kW	2.72	3.50	4.04
	COP		4.12	4.00	3.96
	Energy label class		A	A	A
	Booster heater		kW	-	-
Power supply	Phase	φ	3		
	Cycle	Hz	50		
	Voltage	V	400		
	Breaker size	A	16		
Indoor unit	Air flow	CMM	24-29-34	29.5-35.5-42	32-39-46
	(Low-Middle-High)	CFM	847-1,024-1,201	1,042-1,253-1,483	1,130-1,377-1,624
	External pressure	Pa	35/50/70/100/150		
	Sound level (Low-Middle-High/50Pa)	dB(A)	29-34-38	33-36-40	34-38-43
	External finish		Galvanized sheets		
	Dimension	W : mm	1,400		1,600
		D : mm	732		
		H : mm	250		
		W : inch	55-1/8		63
		D : inch	28-7/8		
		H : inch	9-7/8		
	Weight	kg	41(40)	43(42)	47(46)
		lbs	91(89)	95(93)	104(102)
Field drain pipe O.D.	mm	32			
	inch	1-1/4			
Outdoor unit	Air flow	CMM	110	120	
		CFM	3,880	4,230	
	Sound level at cooling	dB(A)	49	50	
	Sound level at heating	dB(A)	51	52	
	External finish		Ivory Munsell 3Y 7.8/1.1		
	Dimension	W : mm	1,050		
		D : mm	330+30		
		H : mm	1,338		
		W : inch	41-5/16		
		D : inch	13 + 1-3/16		
H : inch		52-11/16			
Weight	kg	124	126	132	
	lbs	273	278	291	
Refrigerant pipe size	Gas side O.D.	mm	15.88		
		inch	5/8		
	Liquid side O.D.	mm	9.52		
		inch	3/8		
Refrigerant pipe length	Height difference	m	Max. 30		
	Length	m	Max. 75		

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

3. Guaranteed voltage

Indoor unit 198~264V, 50Hz
Outdoor unit 342~457V, 50Hz

4. Above data are based on the indicated voltage.

Indoor unit Single phase 230V 50Hz
Outdoor unit 3 phase 400V 50Hz

* If optional air protect guide installed. D.B.-15°C



Model name	Indoor unit		PEA-RP200GA	PEA-RP250GA
	Outdoor unit		PUHZ-RP200YKA	PUHZ-RP250YKA
Cooling	Capacity	Btu/h	65,000	75,000
		kW	19.0(9.0-22.4)	22.0(11.2-28.0)
	Total input	kW	6.70	8.34
	EER		2.84	2.64
	Energy label class		-	-
	SHF		0.81	0.86
Heating	Capacity	Btu/h	76,400	92,000
		kW	22.4(9.5-25.0)	27.0(12.5-31.5)
	Total input	kW	6.50	8.20
	COP		3.45	3.29
	Energy label class		-	-
	Booster heater	kW	-	-
Power supply	Phase	φ	3	
	Cycle	Hz	50	
	Voltage	V	400	
	Breaker size	A	Indoor 15 / Outdoor 32	
Indoor unit	Air flow	CMM	52-65	64-80
		CFM	1835-2295	2260-2825
	External pressure	Pa	150	
	Sound level (Low-High)	dB(A)	48-51	49-52
	External finish		Galvanized steel	
	Dimension	W : mm	1400	1600
		D : mm	634	
		H : mm	400	
		W : inch	55-1/8	63
		D : inch	25	
		H : inch	15-3/4	
	Weight	kg	70	77
		lbs	155	170
Unit drain pipe		R1		
Outdoor unit	Air flow	CMM	140	
		CFM	4,940	
	Sound level at cooling	dB(A)	58	
	Sound level at heating	dB(A)	59	
	External finish		Ivory Munsell 3Y 7.8/1.1	
	Dimension	W : mm	1,050	
		D : mm	330+30	
		H : mm	1,338	
		W : inch	41-5/16	
		D : inch	13 + 1-3/16	
		H : inch	52-11/16	
Weight	kg	135	141	
	lbs	297	311	
Refrigerant pipe size	Gas side O.D.	mm	25.4	
		inch	1	
	Liquid side O.D.	mm	9.52	12.7
		inch	3/8	1/2
Refrigerant pipe length	Height difference	m	Max. 30	
	Length	m	Max. 100	

NOTE: 1. Rating conditions (ISO T1)

Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
 Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
 Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C ※1
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

3. Guaranteed voltage
342~457V, 50Hz

4. Above data are based on the indicated voltage.
 Indoor unit 3 phase 400V 50Hz
 Outdoor unit 3 phase 400V 50Hz

※1. If optional air protect guide is installed : D.B.-15°C



Model name	Indoor unit		PEA-RP400GA	PEA-RP500GA
	Outdoor unit		PUHZ-RP200YKA×2	PUHZ-RP250YKA×2
Cooling	Capacity	Btu/h	130,000	150,000
		kW	38.0(18.0-44.8)	44.0(22.4-56.0)
	Total input	kW	12.95	17.16
	EER		2.93	2.56
	Energy label class		-	-
	SHF		0.75	0.77
Heating	Capacity	Btu/h	153,000	184,000
		kW	44.8(18.0-50.0)	54.0(25.0-63.0)
	Total input	kW	12.55	16.88
	COP		3.57	3.20
	Energy label class		-	-
	Booster heater	kW	-	-
Power supply	Phase	φ	3	
	Cycle	Hz	50	
	Voltage	V	400	
	Breaker size	A	Indoor 15 / Outdoor 32 × 2	
Indoor unit	Air flow (High)	CMM	120	160
		CFM	4240	5650
	External pressure	Pa	150	
	Sound level (High)	dB(A)	52	53
	External finish		Galvanized steel	
	Dimension	W : mm	1,947	
		D : mm	764	
		H : mm	595	
		W : inch	79-11/16	
		D : inch	30-1/8	
		H : inch	23-7/16	
	Weight	kg	130	133
		lbs	286	293
Unit drain pipe		R1		
Outdoor unit (Per 1 outdoor unit)	Air flow	CMM	140	
		CFM	4,940	
	Sound level at cooling	dB(A)	58	
	Sound level at heating	dB(A)	59	
	External finish		Ivory Munsell 3Y 7.8/1.1	
	Dimension	W : mm	1,050	
		D : mm	330+30	
		H : mm	1,338	
		W : inch	41-5/16	
		D : inch	13 + 1-3/16	
		H : inch	52-11/16	
Weight	kg	135	141	
	lbs	297	311	
Refrigerant pipe size	Gas side O.D.	mm	25.4 × 2	
		inch	1 × 2	
	Liquid side O.D.	mm	9.52 × 2	12.7 × 2
		inch	3/8 × 2	1/2 × 2
Refrigerant pipe length	Height difference	m	Max. 30	
	Length	m	Max. 100 (per 1 outdoor unit)	

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C ※1
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

3. Guaranteed voltage
342~457V, 50Hz

4. Above data are based on the indicated voltage.
Indoor unit 3 phase 400V 50Hz
Outdoor unit 3 phase 400V 50Hz

※1. If optional air protect guide is installed : D.B. -15°C

2-3. WALL MOUNTED TYPE

Model name	Indoor unit		PKA-RP35HAL	PKA-RP50HAL
	Outdoor unit		PUHZ-RP35VHA4	PUHZ-RP50VHA4
Cooling	Capacity	Btu/h	12,300	15,700
		kW	3.6(1.6-4.5)	4.6(2.3-5.6)
	Total input	kW	0.98	1.43
	EER		3.67	3.22
	Energy label class		A	A
	SHF		0.81	0.72
Heating	Capacity	Btu/h	14,000	17,100
		kW	4.1(1.6-5.2)	5.0(2.5-7.3)
	Total input	kW	1.13	1.38
	COP		3.63	3.62
	Energy label class		A	A
	Booster heater	kW	-	-
Power supply	Phase	ϕ	1	
	Cycle	Hz	50	
	Voltage	V	230	
	Breaker size	A	16	
Indoor unit	Air flow	CMM	9-10.5-12	
		(Low-Middle-High)	CFM	320-370-425
	External pressure	Pa	0	
	Sound level	dB(A)	36-40-43	
	(Low-Middle-High)			
	External finish	White Munsell 1.0Y 9.2/0.2		
	Dimension	W : mm	898	
		D : mm	249	
		H : mm	295	
		W : inch	35-3/8	
		D : inch	9-13/16	
		H : inch	11-5/8	
	Weight	kg	13	
lbs		29		
Field drain pipe I.D.	mm	16		
	inch	5/8		
Outdoor unit	Air flow	CMM	35	
		CFM	1,240	
	Sound level at cooling	dB(A)	44	
	Sound level at heating	dB(A)	46	
	External finish	Ivory Munsell 3Y 7.8/1.1		
	Dimension	W : mm	800	
		D : mm	300+23	
		H : mm	600	
		W : inch	31-1/2	
		D : inch	11-13/16 + 7/8	
H : inch		23-5/8		
Weight	kg	42		
	lbs	93		
Refrigerant pipe size	Gas side O.D.	mm	12.7	
		inch	1/2	
	Liquid side O.D.	mm	6.35	
		inch	1/4	
Refrigerant pipe length	Height difference	m	Max. 30	
	Length	m	Max. 50	

NOTE: 1. Rating conditions (ISO T1)

Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
 Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
 Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -11°C, W.B. -12°C

3. Guaranteed voltage
198~264V, 50Hz

4. Above data are based on the indicated voltage.

Indoor unit Single phase 230V 50Hz

Outdoor unit Single phase 230V 50Hz

* If optional air protect guide installed. D.B. -15°C

Model name	Indoor unit		PKA-RP60KAL	PKA-RP71KAL	PKA-RP100KAL	PKA-RP100KAL
	Outdoor unit		PUHZ-RP60VHA4	PUHZ-RP71VHA4	PUHZ-RP100VKA	PUHZ-RP100YKA
Cooling	Capacity	Btu/h	20,500	24,200	34,100	34,100
		kW	6.0(2.7-6.7)	7.1(3.3-8.1)	10.0(4.9-11.4)	10.0(4.9-11.4)
	Total input	kW	1.54	1.96	2.90	2.90
	EER		3.90	3.62	3.45	3.45
	Energy label class		A	A	A	A
Heating	Capacity	Btu/h	23,900	27,300	38,200	38,200
		kW	7.0(2.8-8.2)	8.0(3.5-10.2)	11.2(4.5-14.0)	11.2(4.5-14.0)
	Total input	kW	1.76	2.13	3.10	3.10
	COP		3.98	3.76	3.61	3.61
	Energy label class		A	A	A	A
Power supply	Booster heater	kW	-	-	-	-
	Phase	ϕ	1		3	
	Cycle	Hz	50		50	
	Voltage	V	230		400	
	Breaker size	A	25	25	32	16
Indoor unit	Air flow (Low-Middle-High)	CMM	18-20-22		20-23-26	
		CFM	635-705-780		705-810-920	
	External pressure	Pa	0			
	Sound level (Low-Middle-High)	dB(A)	39-42-45		41-45-49	
	External finish		Munsell 1.0Y 9.2/0.2			
	Dimension	W : mm	1,170			
		D : mm	295			
		H : mm	365			
		W : inch	46-1/16			
		D : inch	11-5/8			
		H : inch	14-3/8			
	Weight	kg	21			
lbs		46				
Field drain pipe I.D.	mm	16				
	inch	5/8				
Outdoor unit	Air flow	CMM	60		110	
		CFM	2,120		3,880	
	Sound level at cooling	dB(A)	47		49	
	Sound level at heating	dB(A)	48		51	
	External finish		Ivory Munsell 3Y 7.8/1.1			
	Dimension	W : mm	950		1,050	
		D : mm	330+30			
		H : mm	943		1,338	
		W : inch	37-3/8		41-5/16	
		D : inch	13 + 1-3/16			
H : inch		37-1/8		52-11/16		
Weight	kg	67		116		
	lbs	148		256		
Refrigerant pipe size	Gas side O.D.	mm	15.88			
		inch	5/8			
	Liquid side O.D.	mm	9.52			
		inch	3/8			
Refrigerant pipe length	Height difference	m	Max. 30		Max. 30	
	Length	m	Max. 50		Max. 75	

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

3. Guaranteed voltage

198~264V, 50Hz (RP100Y: 342~457V, 50Hz)

4. Above data are based on the indicated voltage.

Indoor unit Single phase 230V 50Hz

Outdoor unit V: Single phase 230V 50Hz

Y: 3phase 400V 50Hz

* If optional air protect guide installed. D.B.-15°C

2-4. CEILING SUSPENDED TYPE

Model name	Indoor unit		PCA-RP50KA	PCA-RP60KA	PCA-RP71KA
	Outdoor unit		PUHZ-RP50VHA4	PUHZ-RP60VHA4	PUHZ-RP71VHA4
Cooling	Capacity	Btu/h	17,100	20,500	24,200
		kW	5.0(2.3-5.6)	6.0(2.7-6.7)	7.1(3.3-8.1)
	Total input	kW	1.56	1.50	1.96
	EER		3.21	4.00	3.62
	Energy label class		A	A	A
	SHF		0.79	0.81	0.76
Heating	Capacity	Btu/h	18,800	23,900	27,300
		kW	5.5(2.5-6.6)	7.0(2.8-8.2)	8.0(3.5-10.2)
	Total input	kW	1.52	1.94	2.21
	COP		3.62	3.61	3.62
	Energy label class		A	A	A
	Booster heater	kW	-	-	-
Power supply	Phase	ϕ	1		
	Cycle	Hz	50		
	Voltage	V	230		
	Breaker size	A	16	25	
Indoor unit	Air flow (Low-Medium2-Medium1-High)	CMM	10-11-13-15	15-16-17-19	16-17-18-20
		CFM	355-390-460-530	530-565-600-670	565-600-635-705
	External pressure	Pa	0		
	Sound level (Low-Medium2-Medium1-High)	dB(A)	32-34-37-40	33-35-37-40	35-37-39-41
	External finish		White Munsell 6.4Y 8.9/0.4		
	Dimension	W : mm	960	1,280	
		D : mm	680		
		H : mm	230		
		W : inch	37-13/16	50-3/8	
		D : inch	26-3/4		
		H : inch	9-1/16		
Weight	kg	25	32		
	lbs	55	71		
Field drain pipe O.D.	mm	26			
	inch	1			
Outdoor unit	Air flow	CMM	35	60	
		CFM	1,240	2,120	
	Sound level at cooling	dB(A)	44	47	
	Sound level at heating	dB(A)	46	48	
	External finish		Ivory Munsell 3Y 7.8/1.1		
	Dimension	W : mm	800	950	
		D : mm	330+23	330+30	
		H : mm	600	943	
		W : inch	31-1/2	37-3/8	
		D : inch	13 + 7/8	13 + 1-3/16	
		H : inch	23-5/8	37-1/8	
Weight	kg	42	67		
	lbs	93	148		
Refrigerant pipe size	Gas side O.D.	mm	12.7	15.88	
		inch	1/2	5/8	
	Liquid side O.D.	mm	6.35	9.52	
		inch	1/4	3/8	
Refrigerant pipe length	Height difference	m	Max. 30	Max. 30	
	Length	m	Max. 50	Max. 50	

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C ※1
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -11°C, W.B. -12°C ※2

3. Guaranteed voltage
198~264V, 50Hz

4. Above data are based on the indicated voltage.
Indoor unit Single phase 230V 50Hz
Outdoor unit Single phase 230V 50Hz

※1. If optional air protect guide installed. D.B. -15°C

※2. For RP60/71 D.B. -20°C, W.B. -20°C



Model name	Indoor unit		PCA-RP100KA	PCA-RP125KA	PCA-RP140KA
	Outdoor unit		PUHZ-RP100VKA	PUHZ-RP125VKA	PUHZ-RP140VKA
Cooling	Capacity	Btu/h	34,100	42,700	47,800
		kW	10.0(4.9-11.4)	12.5(5.5-14.0)	14.0(6.2-15.3)
	Total input	kW	2.63	3.88	4.36
	EER		3.80	3.22	3.21
	Energy label class		A	A	A
	SHF		0.77	0.72	0.71
Heating	Capacity	Btu/h	38,200	47,800	54,600
		kW	11.2(4.5-14.0)	14.0(5.0-16.0)	16.0(5.7-18.0)
	Total input	kW	3.02	3.88	4.43
	COP		3.71	3.61	3.61
	Energy label class		A	A	A
	Booster heater	kW	-	-	-
Power supply	Phase	φ	1		
	Cycle	Hz	50		
	Voltage	V	230		
	Breaker size	A	32		40
Indoor unit	Air flow	CMM	22-24-26-28	23-25-27-29	24-26-29-32
	(Low-Medium2-Medium1-High)	CFM	775-850-920-990	810-885-955-1,025	850-920-1,025-1,130
	External pressure	Pa	0		
	Sound level	dB(A)	37-39-41-43	39-41-43-45	41-43-45-48
	(Low-Medium2-Medium1-High)				
	External finish		White Munsell 6.4Y 8.9/0.4		
	Dimension	W : mm	1,600		
		D : mm	680		
		H : mm	230		
		W : inch	63		
		D : inch	26-3/4		
		H : inch	9-1/16		
	Weight	kg	36	38	39
lbs		79	84	86	
Field drain pipe O.D.	mm	26			
	inch	1			
Outdoor unit	Air flow	CMM	110	120	
		CFM	3,880	4,230	
	Sound level at cooling	dB(A)	49	50	
	Sound level at heating	dB(A)	51	52	
	External finish		Ivory Munsell 3Y 7.8/1.1		
	Dimension	W : mm	1,050		
		D : mm	330+30		
		H : mm	1,338		
		W : inch	41-5/16		
		D : inch	13 + 1-3/16		
H : inch		52-11/16			
Weight	kg	116	119		
	lbs	256	262		
Refrigerant pipe size	Gas side O.D.	mm	15.88		
		inch	5/8		
	Liquid side O.D.	mm	9.52		
		inch	3/8		
Refrigerant pipe length	Height difference	m	Max. 30		
	Length	m	Max. 75		

- NOTE:**
- Rating conditions (ISO T1)
 Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
 Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
 Refrigerant piping length (one way) : 5m (16ft.)

- Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

- Guaranteed voltage
198~264V, 50Hz
- Above data are based on the indicated voltage.
 Indoor unit Single phase 230V 50Hz
 Outdoor unit Single phase 230V 50Hz
- * If optional air protect guide installed. D.B.-15°C



Model name	Indoor unit		PCA-RP100KA	PCA-RP125KA	PCA-RP140KA
	Outdoor unit		PUHZ-RP100YKA	PUHZ-RP125YKA	PUHZ-RP140YKA
Cooling	Capacity	Btu/h	34,100	42,700	47,800
		kW	10.0(4.9-11.4)	12.5(5.5-14.0)	14.0(6.2-15.3)
	Total input	kW	2.63	3.88	4.36
	EER		3.80	3.22	3.21
	Energy label class		A	A	A
	SHF		0.77	0.72	0.71
Heating	Capacity	Btu/h	38,200	47,800	54,600
		kW	11.2(4.5-14.0)	14.0(5.0-16.0)	16.0(5.7-18.0)
	Total input	kW	3.02	3.88	4.43
	COP		3.71	3.61	3.61
	Energy label class		A	A	A
	Booster heater	kW	-	-	-
Power supply	Phase	ϕ	3		
	Cycle	Hz	50		
	Voltage	V	400		
	Breaker size	A	16		
Indoor unit	Air flow (Low-Medium2-Medium1-High)	CMM	22-24-26-28	23-25-27-29	24-26-29-32
		CFM	775-850-920-990	810-885-955-1,025	850-920-1,025-1,130
	External pressure	Pa	0		
	Sound level (Low-Medium2-Medium1-High)	dB(A)	37-39-41-43	39-41-43-45	41-43-45-48
	External finish		White Munsell 6.4Y 8.9/0.4		
	Dimension	W : mm	1,600		
		D : mm	680		
		H : mm	230		
		W : inch	63		
		D : inch	26-3/4		
		H : inch	9-1/16		
	Weight	kg	36	38	39
		lbs	79	84	86
Field drain pipe O.D.	mm	26			
	inch	1			
Outdoor unit	Air flow	CMM	110	120	
		CFM	3,880	4,230	
	Sound level at cooling	dB(A)	49	50	
	Sound level at heating	dB(A)	51	52	
	External finish		Ivory Munsell 3Y 7.8/1.1		
	Dimension	W : mm	1,050		
		D : mm	330+30		
		H : mm	1,338		
		W : inch	41-5/16		
		D : inch	13 + 1-3/16		
H : inch		52-11/16			
Weight	kg	124	126	132	
	lbs	273	278	291	
Refrigerant pipe size	Gas side O.D.	mm	15.88		
		inch	5/8		
	Liquid side O.D.	mm	9.52		
		inch	3/8		
Refrigerant pipe length	Height difference	m	Max. 30		
	Length	m	Max. 75		

- NOTE:**
- Rating conditions (ISO T1)
 Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
 Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
 Refrigerant piping length (one way) : 5m (16ft.)
 - Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

- Guaranteed voltage
 Indoor unit 198~264V, 50Hz
 Outdoor unit 342~457V, 50Hz
- Above data are based on the indicated voltage.
 Indoor unit Single phase 230V 50Hz
 Outdoor unit 3 phase 400V 50Hz
- * If optional air protect guide installed. D.B. -15°C



Model name	Indoor unit		PCA-RP71HA	PCA-RP125HA	PCA-RP125HA
	Outdoor unit		PUHZ-RP71VHA4	PUHZ-RP125VKA	PUHZ-RP125YKA
Cooling	Capacity	Btu/h	24,200	42,700	42,700
		kW	7.1(3.3-8.1)	12.5(5.5-14.0)	12.5(5.5-14.0)
	Total input	kW	2.21	3.88	3.88
	EER		3.21	3.22	3.22
	Energy label class		A	A	A
	SHF		0.74	0.77	0.77
Heating	Capacity	Btu/h	25,900	47,100	47,100
		kW	7.6(3.5-10.2)	13.8(5.0-16.0)	13.8(5.0-16.0)
	Total input	kW	2.23	4.05	4.05
	COP		3.41	3.41	3.41
	Energy label class		B	B	B
	Booster heater	kW	-	-	-
Power supply	Phase	φ	1	3	
	Cycle	Hz	50	50	
	Voltage	V	230	400	
	Breaker size	A	25	16	
Indoor unit	Air flow	CMM	17-19	30-38	
	(Low-High)	CFM	600-670	1,060-1,350	
	External pressure	Pa	0		
	Sound level (Low-High)	dB(A)	34-38	44-50	
	External finish		Stainless steel		
	Dimension	W : mm	1136	1520	
		D : mm	650		
		H : mm	280		
		W : inch	44-3/4	59-7/8	
		D : inch	25-5/8		
		H : inch	11		
	Weight	kg	41	56	
		lbs	90	124	
	Field drain pipe O.D.	mm	26		
inch		1			
Outdoor unit	Air flow	CMM	60	120	
		CFM	2,120	4,230	
	Sound level at cooling	dB(A)	47	50	
	Sound level at heating	dB(A)	48	52	
	External finish		Ivory Munsell 3Y 7.8/1.1		
	Dimension	W : mm	950	1,050	
		D : mm	330+30	330+30	
		H : mm	943	1,338	
		W : inch	37-3/8	41-5/16	
		D : inch	13 + 1-3/16	13 + 1-3/16	
		H : inch	37-1/8	52-11/16	
	Weight	kg	67	116	126
		lbs	148	256	278
	Refrigerant pipe size	Gas side O.D.	mm	15.88	15.88
inch			5/8	5/8	
Liquid side O.D.		mm	9.52	9.52	
		inch	3/8	3/8	
Refrigerant pipe length	Height difference	m	Max. 30	Max. 30	
	Length	m	Max. 50	Max. 75	

- NOTE:**
- Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

- Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

- Guaranteed voltage
198~264V, 50Hz (RP125Y : 342~457V, 50Hz)
 - Above data are based on the indicated voltage.
Indoor unit Single phase 230V 50Hz
Outdoor unit V: Single phase 230V 50Hz,
Y: 3 phase 400V 50Hz
- * If optional air protect guide installed. D.B. -15°C

2-5. FLOOR STANDING TYPE

Model name	Indoor unit		PSA-RP71GA	
	Outdoor unit		PUHZ-RP71VHA4	
Cooling	Capacity	Btu/h	24,200	
		kW	7.1(3.3-8.1)	
	Total input	kW	2.20	
	EER		3.23	
	Energy label class		A	
	SHF		0.73	
Heating	Capacity	Btu/h	25,900	
		kW	7.6(3.5-10.2)	
	Total input	kW	2.23	
	COP		3.41	
	Energy label class		B	
	Booster heater	kW	-	
Power supply	Phase	φ	1	
	Cycle	Hz	50	
	Voltage	V	230	
	Breaker size	A	25	
Indoor unit	Air flow	CMM	15-18	
	(Low-High)	CFM	530-635	
	External pressure	Pa	0	
	Sound level (Low-High)	dB(A)	40-45	
	External finish		White Munsell 0.70Y 8.59/0.97	
	Dimension	W : mm		600
		D : mm		270
		H : mm		1,900
		W : inch		23-5/8
		D : inch		10-5/8
		H : inch		74-13/16
	Weight	kg		43
		lbs		98
Field drain pipe I.D.	mm		20	
	inch		13/16	
Outdoor unit	Air flow	CMM	60	
		CFM	2,120	
	Sound level at cooling	dB(A)	47	
	Sound level at heating	dB(A)	48	
	External finish		Ivory Munsell 3Y 7.8/1.1	
	Dimension	W : mm		950
		D : mm		330+30
		H : mm		943
		W : inch		37-3/8
		D : inch		13 + 1-3/16
H : inch			37-1/8	
Weight	kg		67	
	lbs		148	
Refrigerant pipe size	Gas side O.D.	mm	15.88	
		inch	5/8	
	Liquid side O.D.	mm	9.52	
		inch	3/8	
Refrigerant pipe length	Height difference	m	Max. 30	
	Length	m	Max. 50	

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

3. Guaranteed voltage
198-264V, 50Hz

4. Above data are based on the indicated voltage.
Indoor unit Single phase 230V 50Hz
Outdoor unit Single phase 230V 50Hz

* If optional air protect guide installed. D.B. -15°C



Model name	Indoor unit		PSA-RP100GA	PSA-RP125GA	PSA-RP140GA
	Outdoor unit		PUHZ-RP100VKA	PUHZ-RP125VKA	PUHZ-RP140VKA
Cooling	Capacity	Btu/h	34,100	42,300	47,100
		kW	10.0(4.9-11.4)	12.4(5.5-14.0)	13.8(6.2-15.3)
	Total input	kW	2.99	4.12	4.91
	EER		3.34	3.01	2.81
	Energy label class		A	B	C
	SHF		0.81	0.75	0.74
Heating	Capacity	Btu/h	38,200	47,800	54,600
		kW	11.2(4.5-14.0)	14.0(5.0-16.0)	16.0(5.7-18.0)
	Total input	kW	3.28	4.11	4.97
	COP		3.41	3.41	3.22
	Energy label class		B	B	C
	Booster heater		kW	-	-
Power supply	Phase	φ	1		
	Cycle	Hz	50		
	Voltage	V	230		
	Breaker size	A	32	40	
Indoor unit	Air flow	CMM	24-31	26-33	27-35
	(Low-High)	CFM	850-1060	920-1165	955-1240
	External pressure	Pa	0		
	Sound level	dB(A)	44-49	46-51	47-52
	(Low-High)				
	External finish		White Munsell 0.70Y 8.59/0.97		
	Dimension	W : mm	600		
		D : mm	350		
		H : mm	1,900		
		W : inch	23-5/8		
		D : inch	13-3/4		
		H : inch	74-13/16		
	Weight	kg	51	53	
		lbs	112	117	
Field drain pipe I.D.	mm	20			
	inch	13/16			
Outdoor unit	Air flow	CMM	110	120	
		CFM	3,880	4,230	
	Sound level at cooling	dB(A)	49	50	
	Sound level at heating	dB(A)	51	52	
	External finish		Ivory Munsell 3Y 7.8/1.1		
	Dimension	W : mm	1,050		
		D : mm	330+30		
		H : mm	1,338		
		W : inch	41-5/16		
		D : inch	13 + 1-3/16		
H : inch		52-11/16			
Weight	kg	116	119		
	lbs	256	262		
Refrigerant pipe size	Gas side O.D.	mm	15.88		
		inch	5/8		
	Liquid side O.D.	mm	9.52		
		inch	3/8		
Refrigerant pipe length	Height difference	m	Max. 30		
	Length	m	Max. 75		

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

3. Guaranteed voltage

198~264V, 50Hz

4. Above data are based on the indicated voltage.

Indoor unit Single phase 230V 50Hz

Outdoor unit Single phase 230V 50Hz

* If optional air protect guide installed. D.B.-15°C



Model name	Indoor unit		PSA-RP100GA	PSA-RP125GA	PSA-RP140GA
	Outdoor unit		PUHZ-RP100YKA	PUHZ-RP125YKA	PUHZ-RP140YKA
Cooling	Capacity	Btu/h	34,100	42,300	47,100
		kW	10.0(4.9-11.4)	12.4(5.5-14.0)	13.8(6.2-15.3)
	Total input	kW	2.99	4.12	4.91
	EER		3.34	3.01	2.81
	Energy label class		A	B	C
	SHF		0.81	0.75	0.74
Heating	Capacity	Btu/h	38,200	47,800	54,600
		kW	11.2(4.5-14.0)	14.0(5.0-16.0)	16.0(5.7-18.0)
	Total input	kW	3.28	4.11	4.97
	COP		3.41	3.41	3.22
	Energy label class		B	B	C
	Booster heater	kW	-	-	-
Power supply	Phase	φ	3		
	Cycle	Hz	50		
	Voltage	V	400		
	Breaker size	A	16		
Indoor unit	Air flow (Low-High)	CMM	24-31	26-33	27-35
		CFM	850-1,060	920-1,165	955-1,240
	External pressure	Pa	0		
	Sound level (Low-High)	dB(A)	44-49	46-51	47-52
	External finish		White Munsell 0.70Y 8.59/0.97		
	Dimension	W : mm	600		
		D : mm	350		
		H : mm	1,900		
		W : inch	23-5/8		
		D : inch	13-3/4		
		H : inch	74-13/16		
	Weight	kg	51	51	53
		lbs	112	112	117
Field drain pipe I.D.	mm	20			
	inch	13/16			
Outdoor unit	Air flow	CMM	110	120	
		CFM	3,880	4,230	
	Sound level at cooling	dB(A)	49	50	
	Sound level at heating	dB(A)	51	52	
	External finish		Ivory Munsell 3Y 7.8/1.1		
	Dimension	W : mm	1,050		
		D : mm	330+30		
		H : mm	1,338		
		W : inch	41-5/16		
		D : inch	13 + 1-3/16		
H : inch		52-11/16			
Weight	kg	124	126	132	
	lbs	273	278	291	
Refrigerant pipe size	Gas side O.D.	mm	15.88		
		inch	5/8		
	Liquid side O.D.	mm	9.52		
		inch	3/8		
Refrigerant pipe length	Height difference	m	Max. 30		
	Length	m	Max. 75		

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27°C (80°F) W.B. 19°C (66°F) Outdoor : D.B. 35°C (95°F) W.B. 24°C (75°F)
Heating Indoor : D.B. 20°C (68°F) Outdoor : D.B. 7°C (45°F) W.B. 6°C (43°F)
Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor
Cooling	Upper limit	D.B. 35°C, W.B. 22.5°C	D.B. 46°C
	Lower limit	D.B. 19°C, W.B. 15°C	D.B. -5°C *
Heating	Upper limit	D.B. 28°C	D.B. 21°C, W.B. 15°C
	Lower limit	D.B. 17°C	D.B. -20°C, W.B. -20°C

3. Guaranteed voltage

Indoor unit 198~264V, 50Hz
Outdoor unit 342~457V, 50Hz

4. Above data are based on the indicated voltage.

Indoor unit Single phase 230V 50Hz
Outdoor unit 3 phase 400V 50Hz

* If optional air protect guide installed. D.B. -15°C

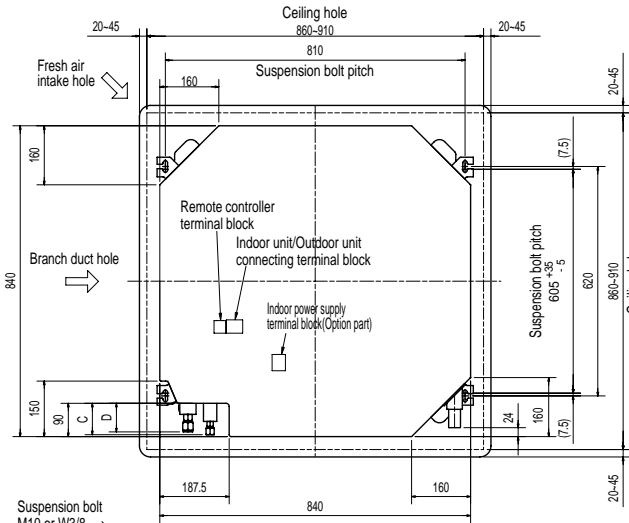
INDOOR UNIT
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PLA-RP100BA
PLA-RP71BA2

PLA-RP50BA
PLA-RP125BA
PLA-RP100BA3

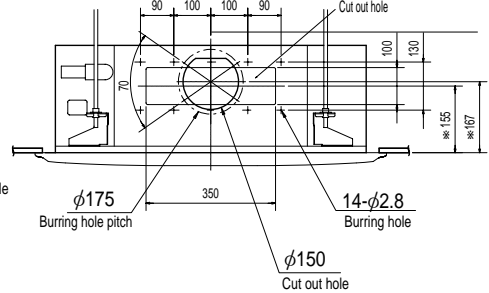
PLA-RP60BA
PLA-RP125BA2

PLA-RP71BA
PLA-RP140BA2

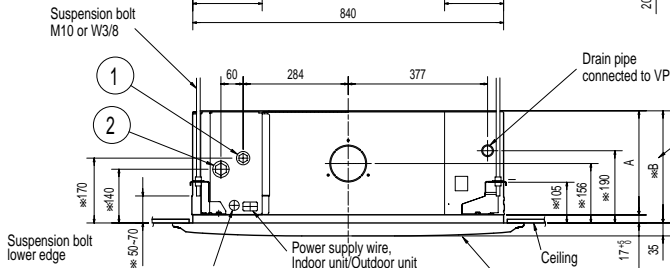
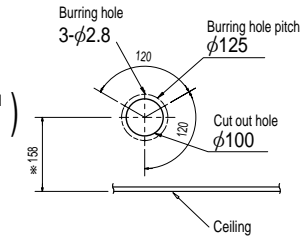
Unit : mm



Detail connecting of branch duct(Both aspects)



Detail drawing of fresh air intake hole



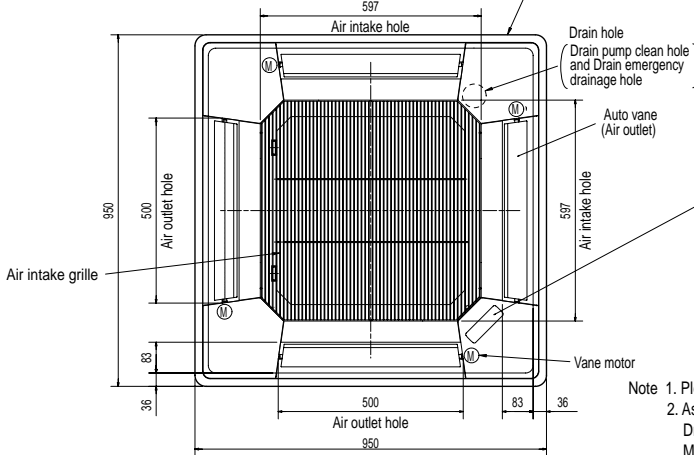
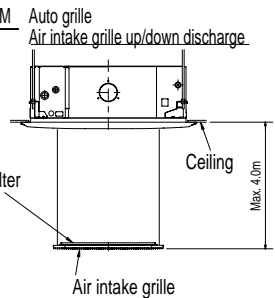
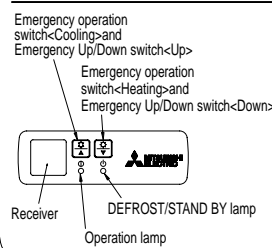
(Connected the attached flexible pipe or socket.)
 Keep approximately 10 to 15mm space between unit ceiling and ceiling slab.

In case of standard grille : PLP-6BA / PLP-6BAMD

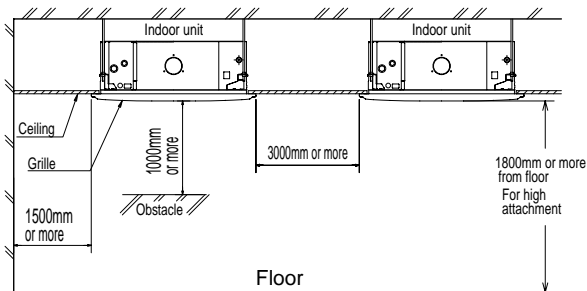


In case of auto-grille : PLP-6BAJ

In case of wireless remote controller : PLP-6BALM



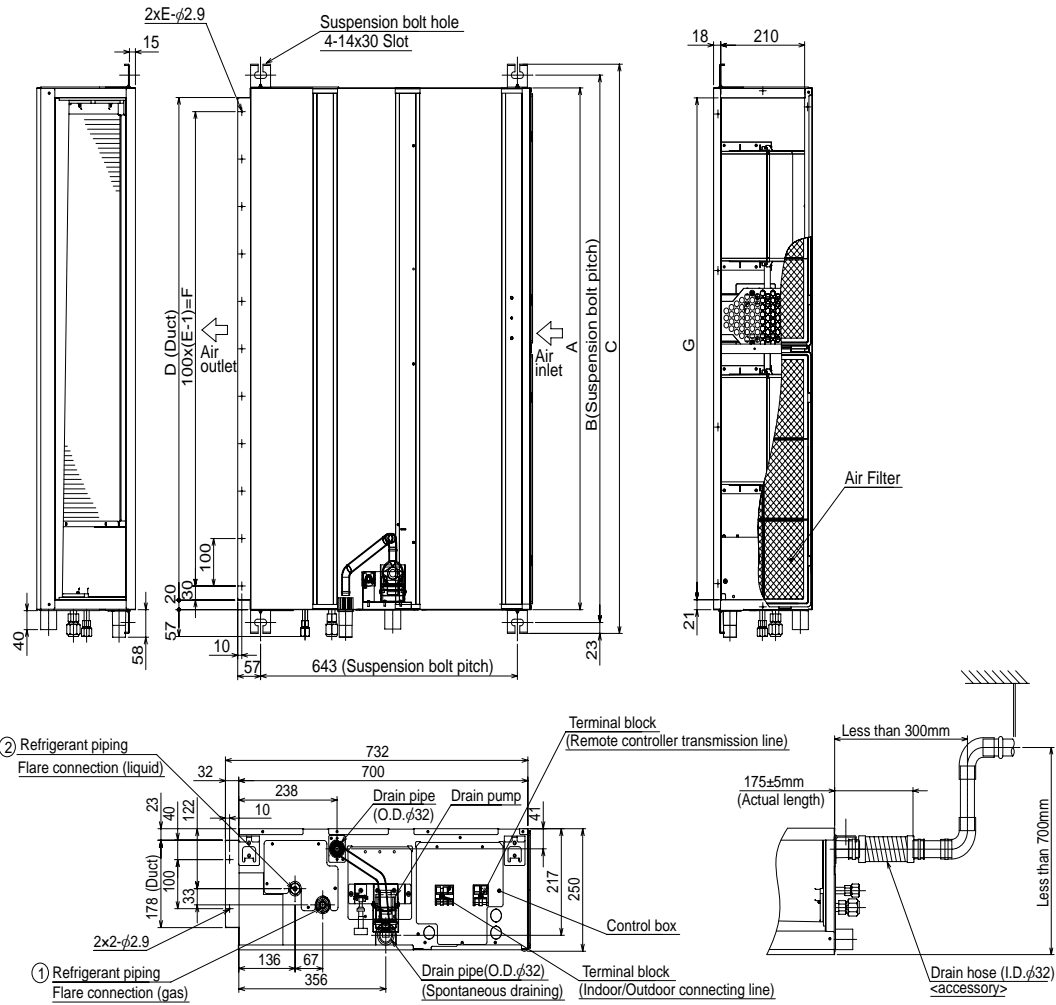
- Note 1. Please choose the grille from a standard grille, auto-grille.
 2. As for drain pipe, please use VP-25(O.D. φ32 PVC TUBE). Drain pump is included. Max. lifting height is 850mm from the ceiling.
 3. As for suspension bolt, please use M10 or W3/8. (Procured at local site)
 4. Electrical box may be removed for the service purpose. Make sure to slack the electrical wire little bit for control/ power wires connection.
 5. The height of the indoor unit is able to be adjusted with the grille attached.
 6. For the installation of the optional high efficiency filter or optional multi-functional casement.
 1) Requires E or more space between transom and ceiling for the installation.
 2) Add 135 mm to the dimensions * marked on the figure.
 3) The optional high efficiency filter must be used jointly with optional multi-functional casement.
 7. When installing the branch ducts, be sure to insulate adequately. Otherwise condensation and dripping may occur. (It becomes the cause of dew drops/water dew.)
 8. As for necessary installation/service space, please refer to the left figure.



Models	①	②	A	B	C	D	E
PLA-RP35/50BA	Refrigerant pipe ...φ6.35 Flared connection ...1/4 inch	Refrigerant pipe ...φ12.7 Flared connection ...1/2 inch			80		
PLA-RP60BA	Refrigerant pipe φ6.35 / φ9.52 Flared connection 1/4 inch/3/8 inch (compatible)	Refrigerant pipe ...φ15.88 Flared connection ...5/8 inch	241	258	87		400
PLA-RP71BA PLA-RP71BA2	Refrigerant pipe ...φ9.52						
PLA-RP100,125BA PLA-RP100BA3 PLA-RP125,140BA2	Flared connection ...3/8 inch		281	298	85	77	440

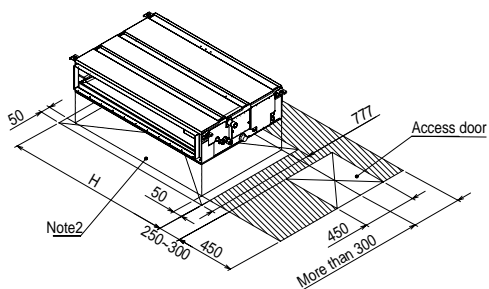
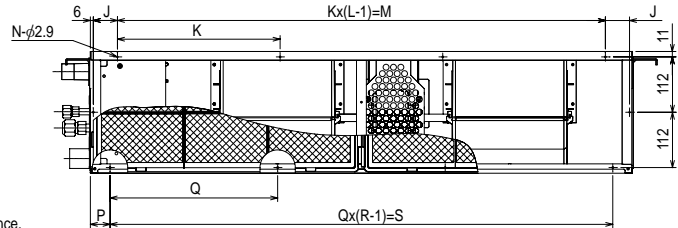
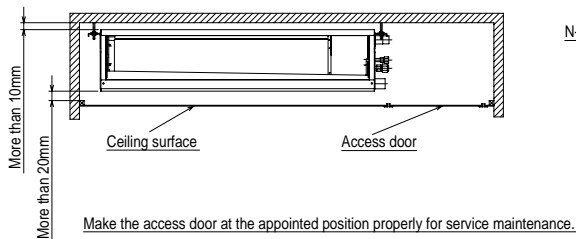
PEAD-RP35, 50, 60, 71, 100, 125, 140JA

Unit : mm



- NOTE 1. Use M10 screw for the Suspension bolt (field supply).
 2. Keep the service space for the maintenance at the bottom.
 3. This chart indicates for PEAD-RP60*71*100*125*140JA models, which have 2 fans. PEAD-RP35*50JA models have 1 fan.
 4. In case that the inlet duct is used, remove the air filter (supplied with the unit), then install the filter (field supply) at suction side.

Model	A	B	C	D	E	F	G	①Gas pipe	②Liquid pipe
PEAD-RP35,50JA	900	954	1000	860	9	800	858	φ 12.7	φ 6.35
PEAD-RP60,71JA	1100	1154	1200	1060	11	1000	1058		
PEAD-RP100,125JA	1400	1454	1500	1360	14	1300	1358	φ 15.88	φ 9.52
PEAD-RP140JA	1600	1654	1700	1560	16	1500	1558		

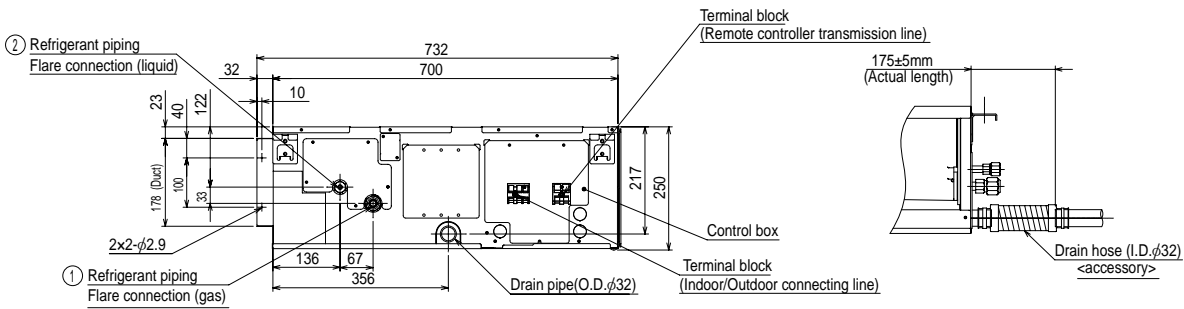
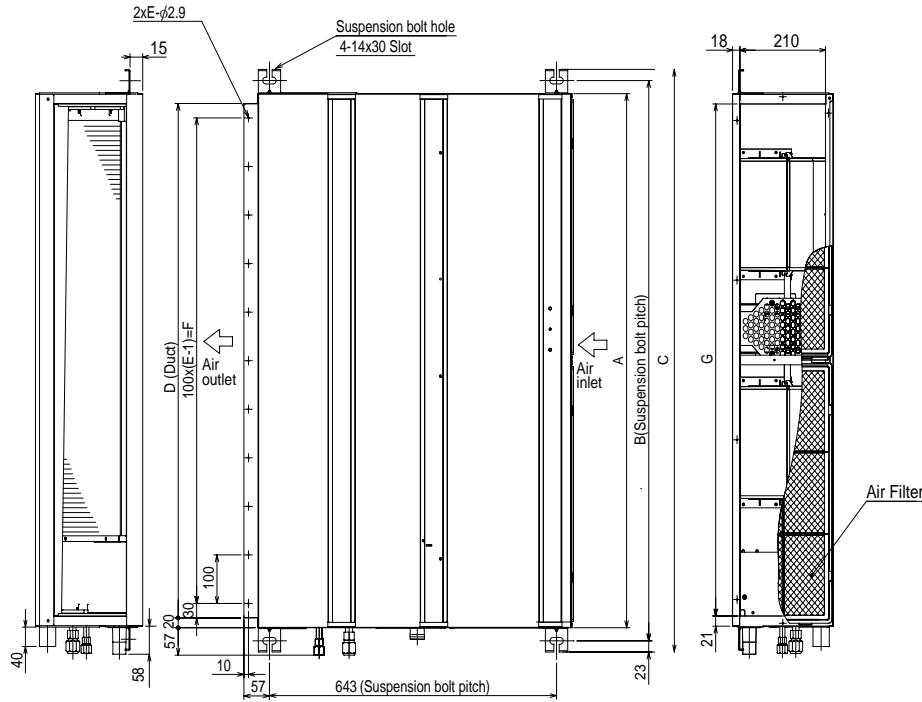


Required space for service and maintenance

Model	H	J	K	L	M	N	P	Q	R	S
PEAD-RP35,50JA	1000	54	260	4	780	10	40.5	273	4	819
PEAD-RP60,71JA	1200	49	330	4	990	10	40	340	4	1020
PEAD-RP100,125JA	1500	54	320	5	1280	12	40	330	5	1320
PEAD-RP140JA	1700	54	370	5	1480	12	40	380	5	1520

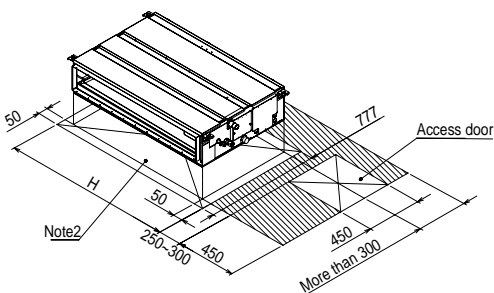
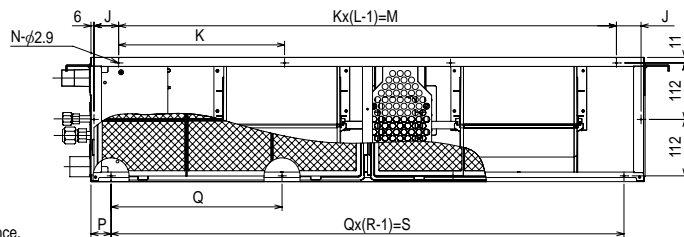
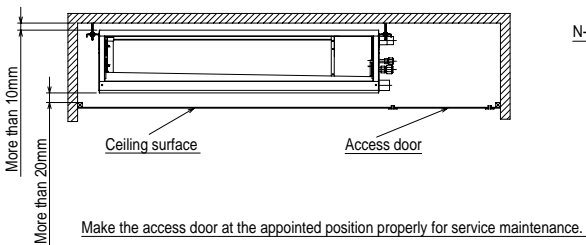
PEAD-RP35, 50, 60, 71, 100, 125, 140JAL

Unit : mm



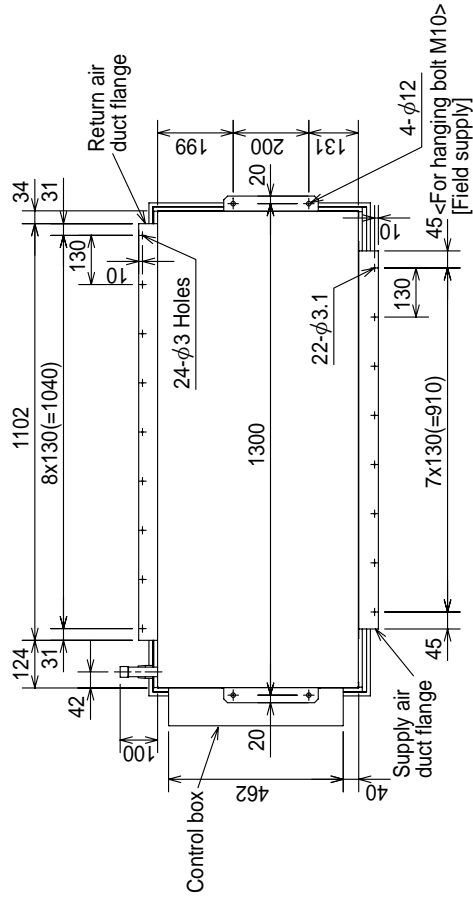
- NOTE 1. Use M10 screw for the Suspension bolt (field supply).
 2. Keep the service space for the maintenance at the bottom.
 3. This chart indicates for PEAD-RP60*71*100*125*140JAL models, which have 2 fans. PEAD-RP35*50JAL models have 1 fan.
 4. In case of the inlet duct is used, remove the air filter (supplied with the unit), then install the filter (field supply) at suction side.

Model	A	B	C	D	E	F	G	① Gas pipe	② Liquid pipe
PEAD-RP35,50JAL	900	954	1000	860	9	800	858	φ 12.7	φ 6.35
PEAD-RP60,71JAL	1100	1154	1200	1060	11	1000	1058		
PEAD-RP100,125JAL	1400	1454	1500	1360	14	1300	1358	φ 15.88	φ 9.52
PEAD-RP140JAL	1600	1654	1700	1560	16	1500	1558		

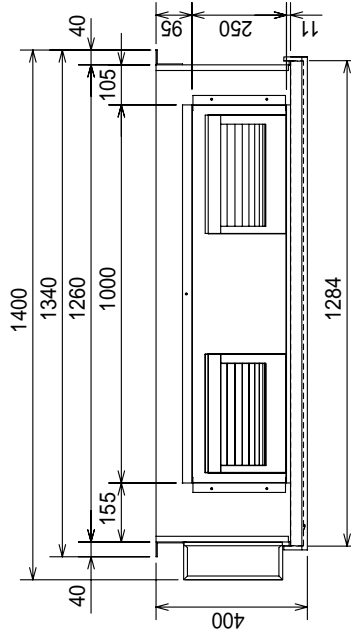


Model	H	J	K	L	M	N	P	Q	R	S
PEAD-RP35,50JAL	1000	54	260	4	780	10	40.5	273	4	819
PEAD-RP60,71JAL	1200	49	330	4	990	10	40	340	4	1020
PEAD-RP100,125JAL	1500	54	320	5	1280	12	40	330	5	1320
PEAD-RP140JAL	1700	54	370	5	1480	12	40	380	5	1520

Required space for service and maintenance

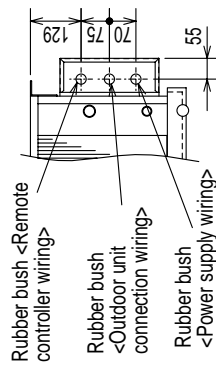


Top view

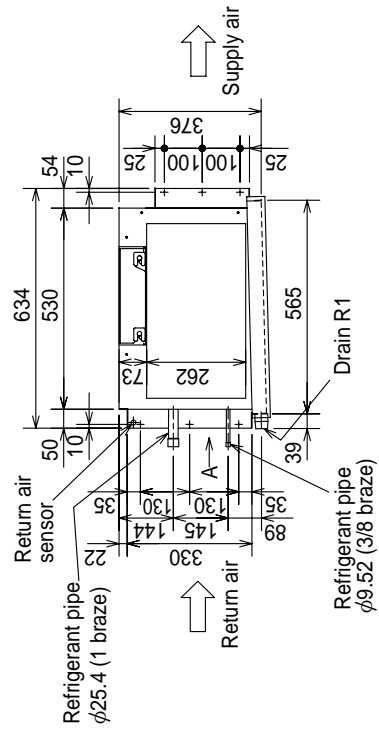


Front view

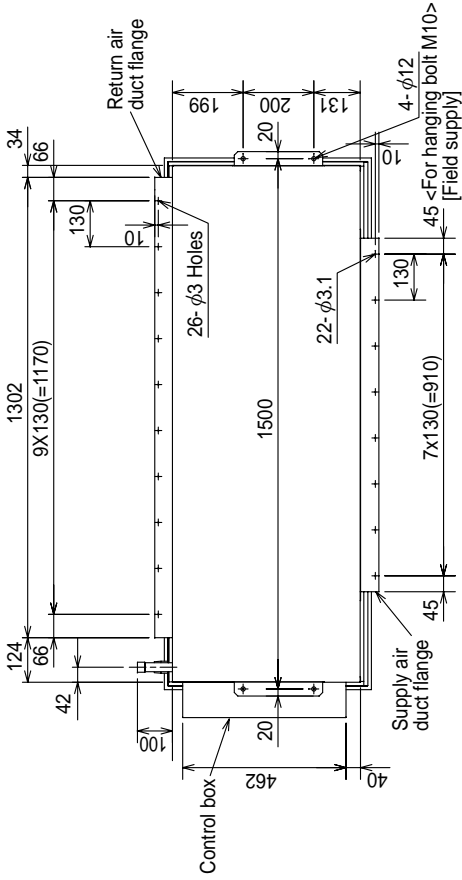
<Accessory>
 Pipe cover.....2pcs.
 (For dew condensation prevention of local piping and unit connection)
 Remote controller.....1pc.



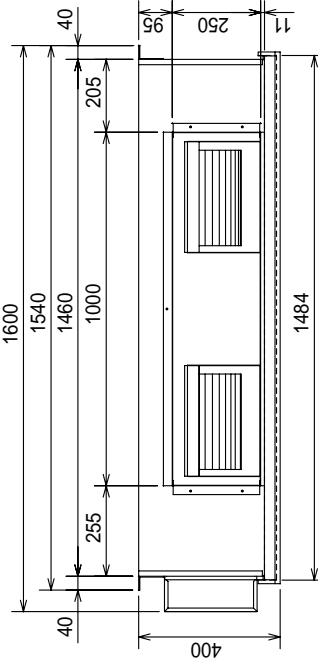
A



Left side view

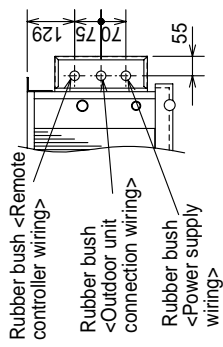


Top view

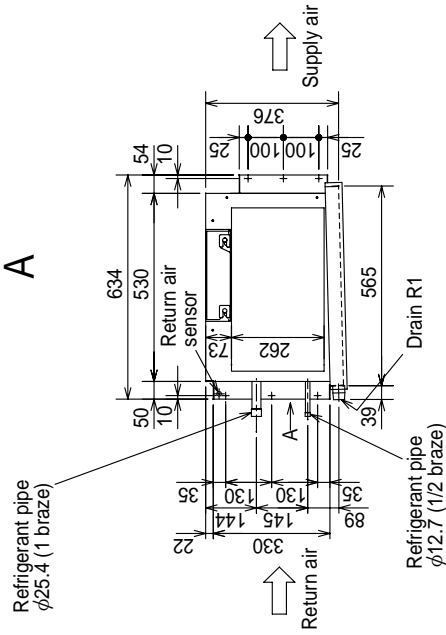


Front view

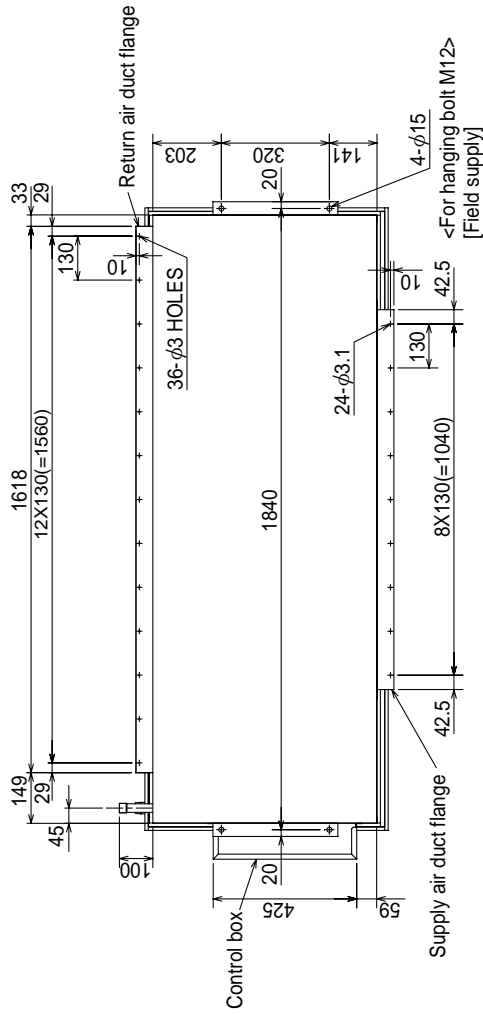
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 Pipe cover.....2pcs.
 (For dew condensation prevention of local piping and unit connection)
 Remote controller.....1pc.



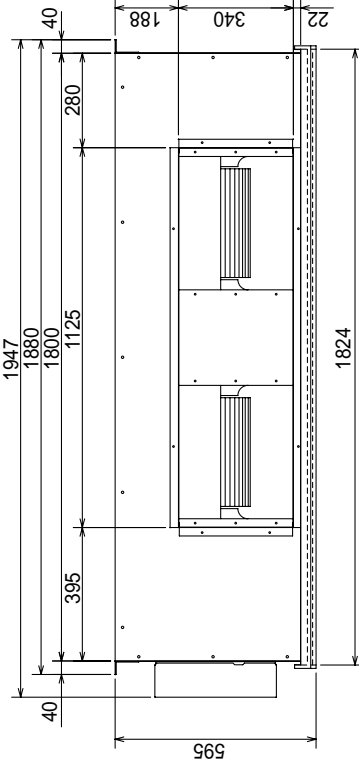
A



Left side view

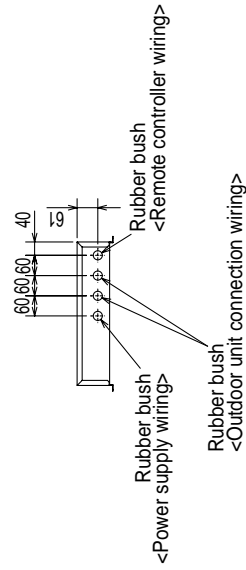


Top view

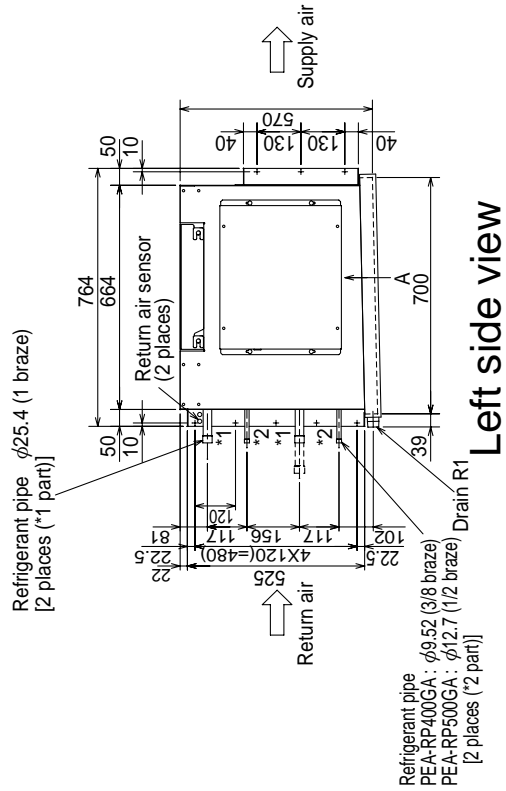


Front view

<Accessory>
 Pipe cover:.....4pcs.
 (For dew condensation prevention of local piping and unit connection)
 Remote controller:.....1pc.



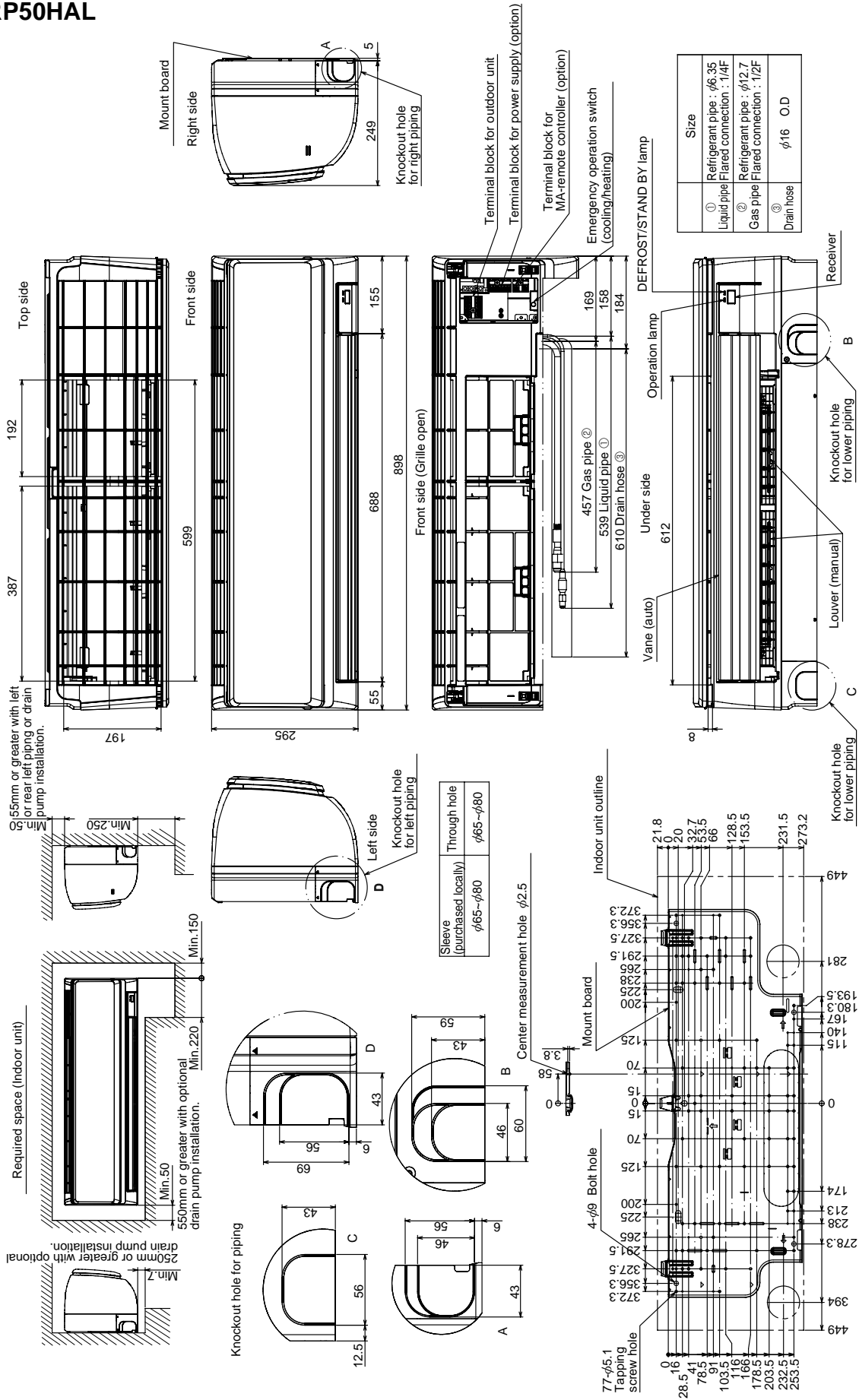
A



Left side view

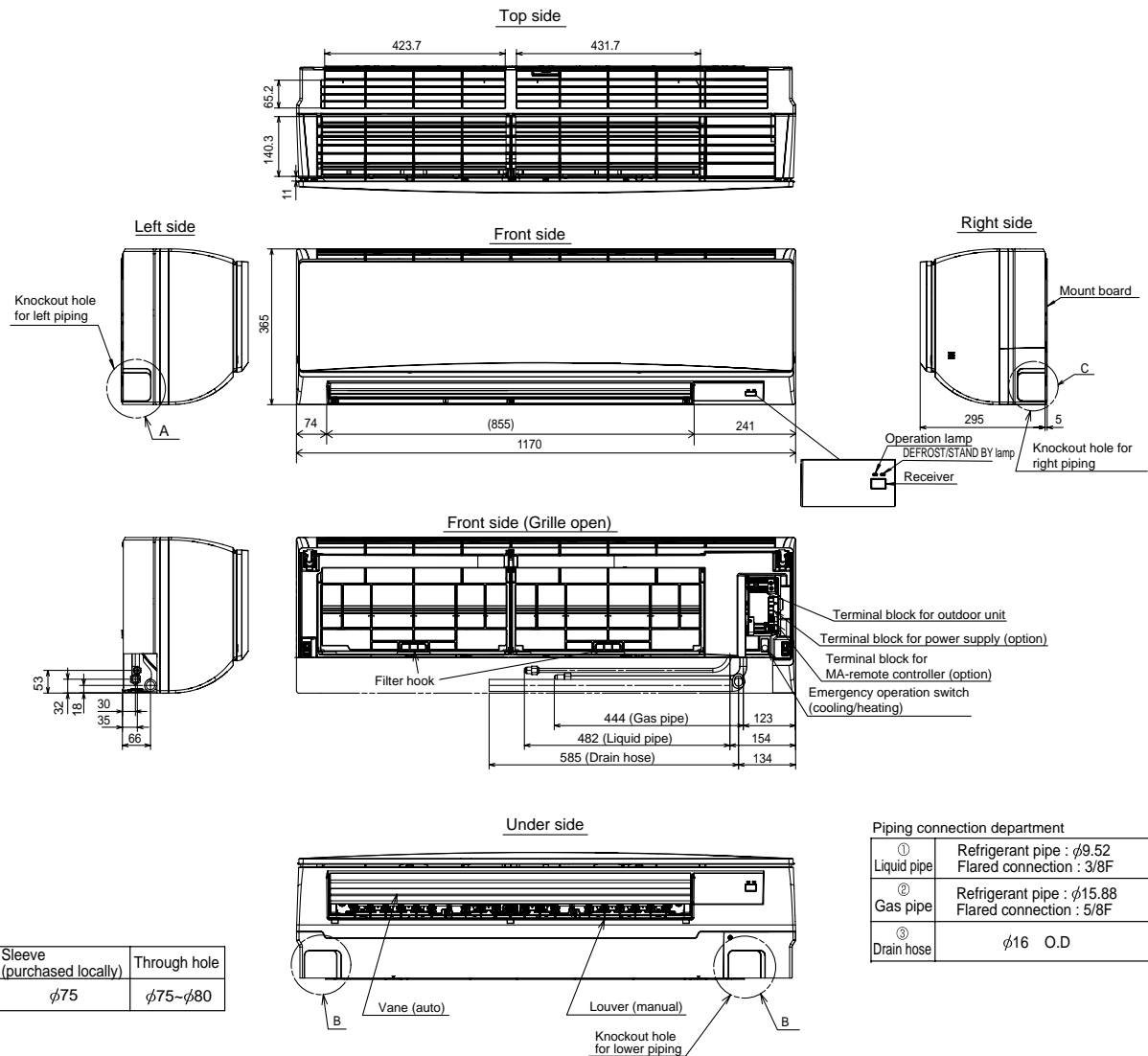
**PKA-RP35HAL
PKA-RP50HAL**

Unit : mm



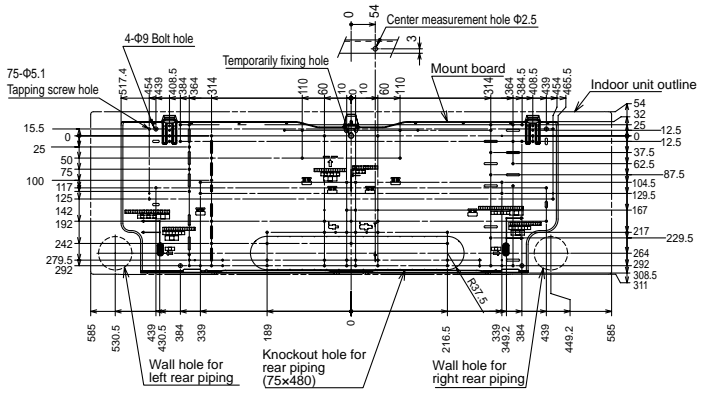
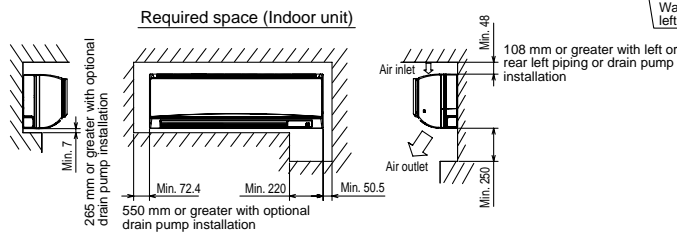
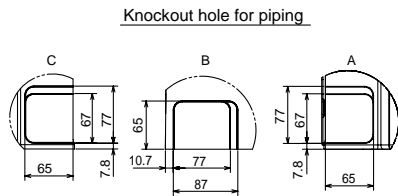
PKA-RP60KAL
PKA-RP71KAL
PKA-RP100KAL

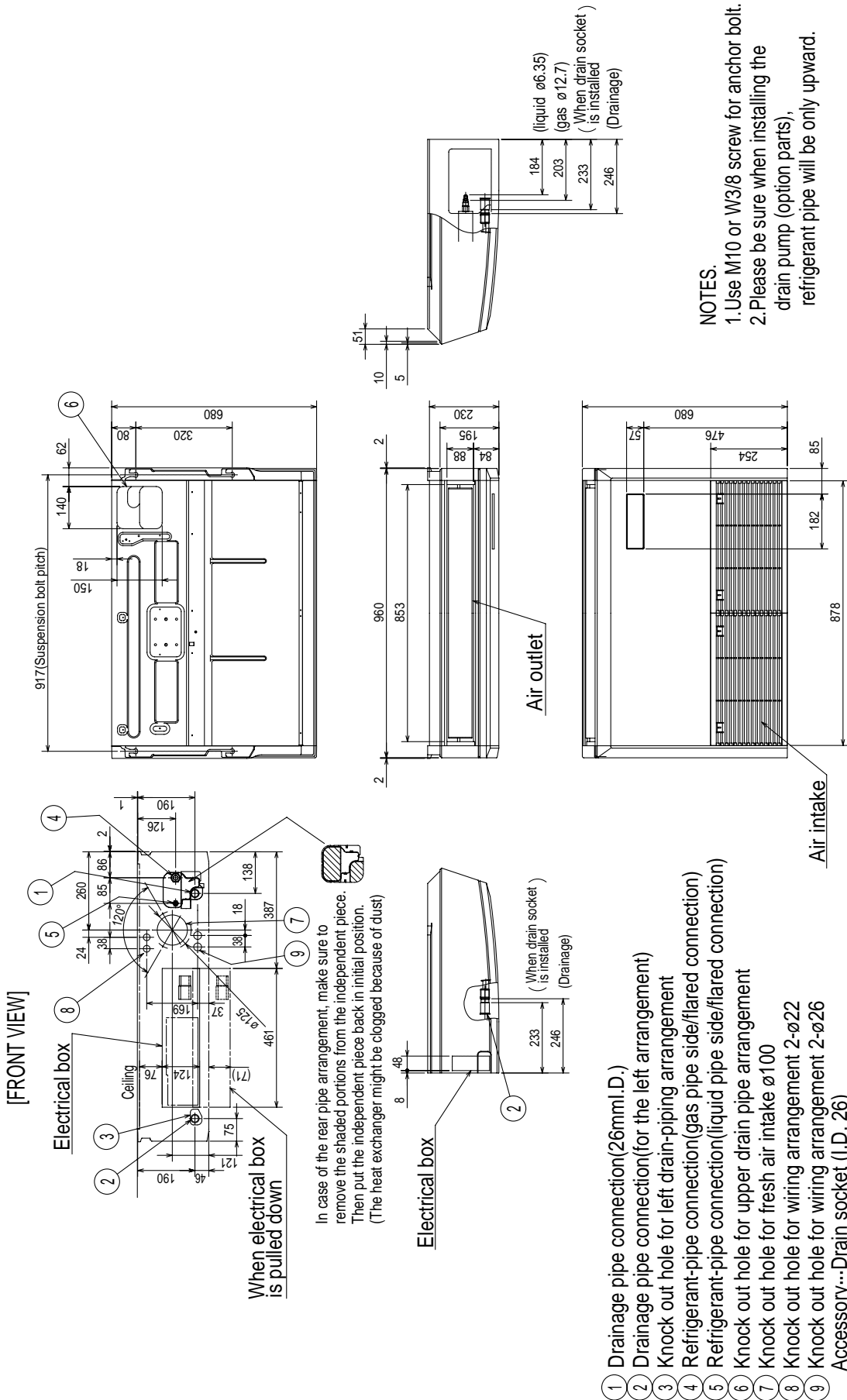
Unit : mm



Sleeve (purchased locally)	Through hole
φ75	φ75~φ80

Piping connection department	
① Liquid pipe	Refrigerant pipe : φ9.52 Flared connection : 3/8F
② Gas pipe	Refrigerant pipe : φ15.88 Flared connection : 5/8F
③ Drain hose	φ16 O.D





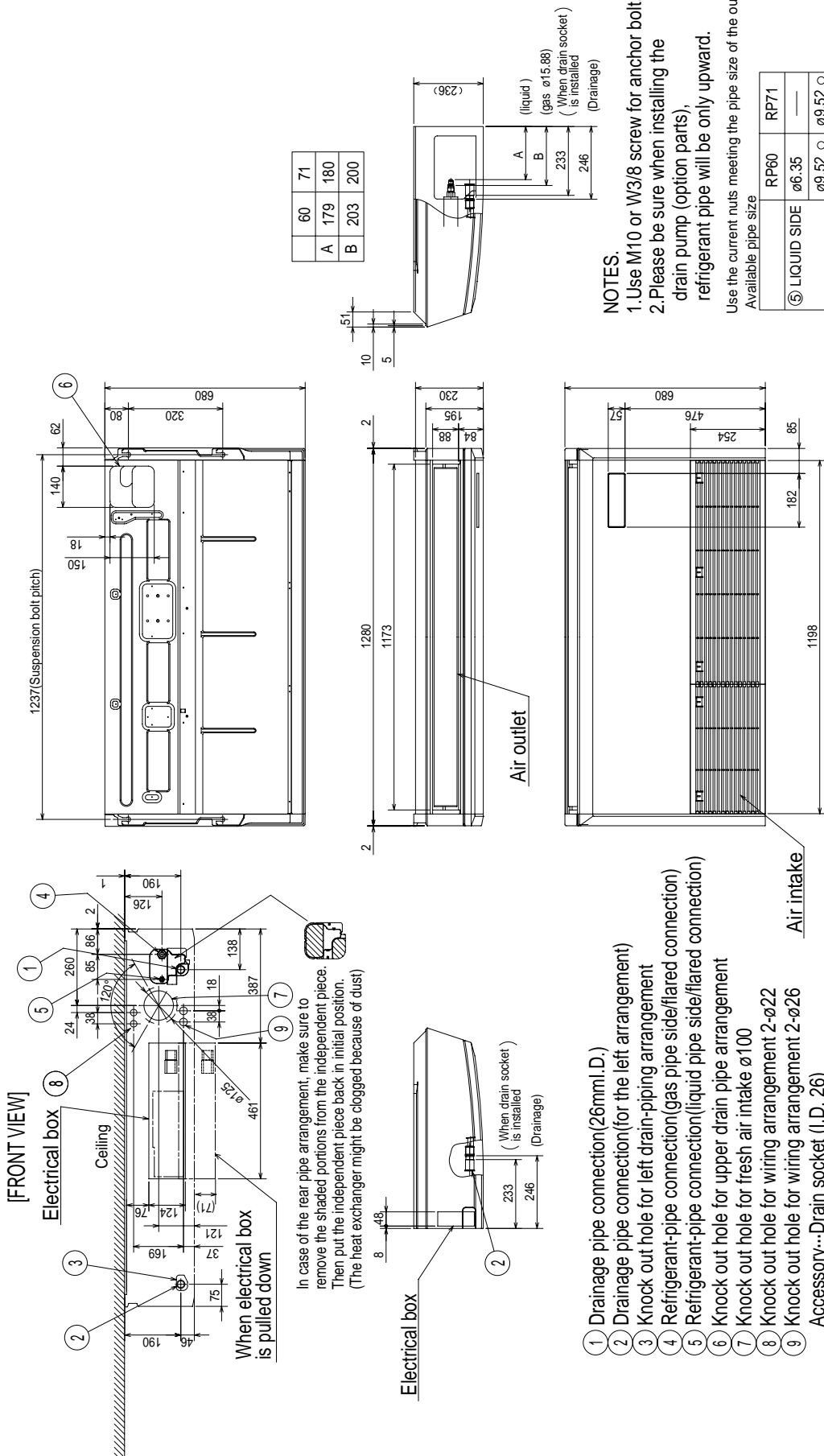
NOTES.

1. Use M10 or W3/8 screw for anchor bolt.
2. Please be sure when installing the drain pump (option parts), refrigerant pipe will be only upward.

- 1 Drainage pipe connection (26mm I.D.)
 - 2 Drainage pipe connection (for the left arrangement)
 - 3 Knock out hole for left drain-piping arrangement
 - 4 Refrigerant-pipe connection (gas pipe side/flared connection)
 - 5 Refrigerant-pipe connection (liquid pipe side/flared connection)
 - 6 Knock out hole for upper drain pipe arrangement
 - 7 Knock out hole for fresh air intake $\phi 100$
 - 8 Knock out hole for wiring arrangement 2- $\phi 22$
 - 9 Knock out hole for wiring arrangement 2- $\phi 26$
- Accessory...-Drain socket (I.D. 26)

PCA-RP60KA
PCA-RP71KA

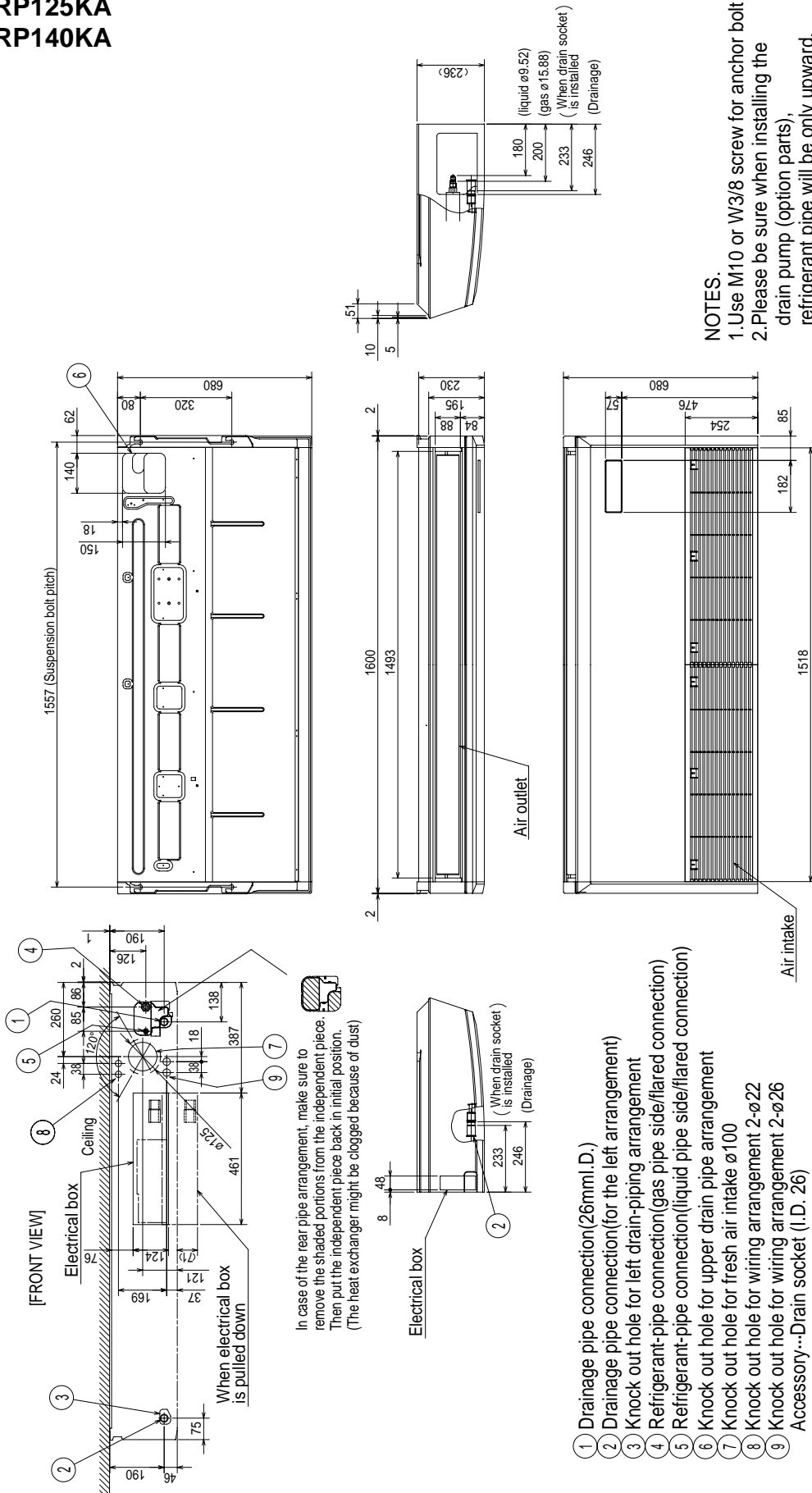
Unit : mm



- ① Drainage pipe connection (26mm I.D.)
 - ② Drainage pipe connection (for the left arrangement)
 - ③ Knock out hole for left drain-piping arrangement
 - ④ Refrigerant-pipe connection (gas pipe side/flared connection)
 - ⑤ Refrigerant-pipe connection (liquid pipe side/flared connection)
 - ⑥ Knock out hole for upper drain pipe arrangement
 - ⑦ Knock out hole for fresh air intake ϕ 100
 - ⑧ Knock out hole for wiring arrangement 2- ϕ 22
 - ⑨ Knock out hole for wiring arrangement 2- ϕ 26
- Accessory... Drain socket (I.D. 26)
Flare nut ϕ 6.35 (RP60 only)

PCA-RP100KA
PCA-RP125KA
PCA-RP140KA

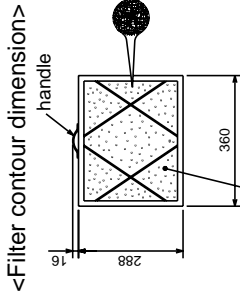
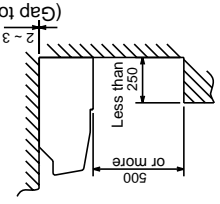
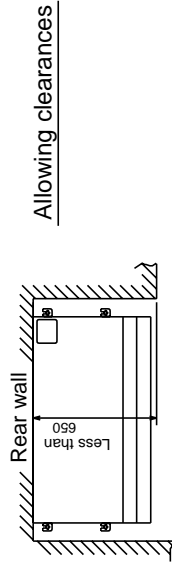
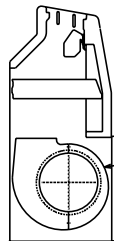
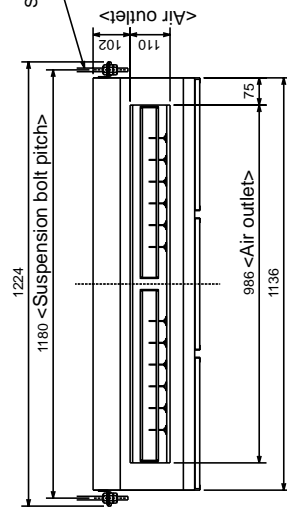
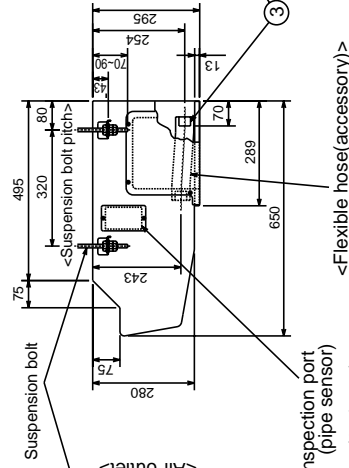
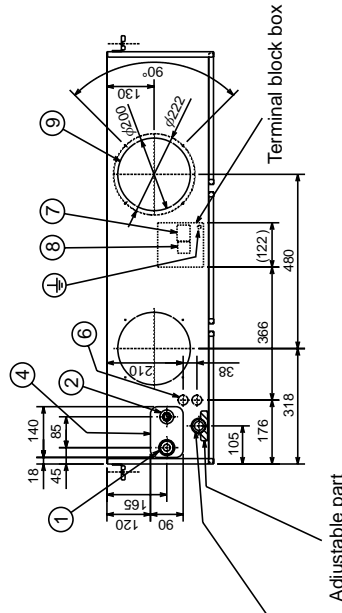
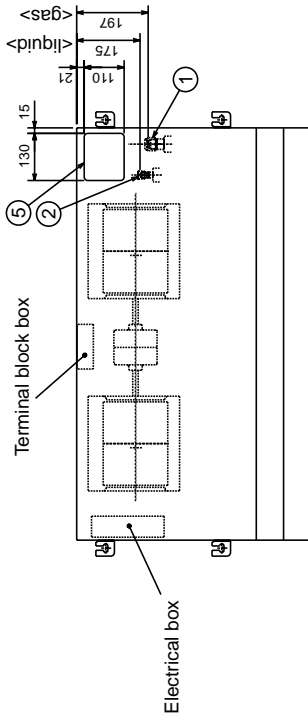
Unit : mm



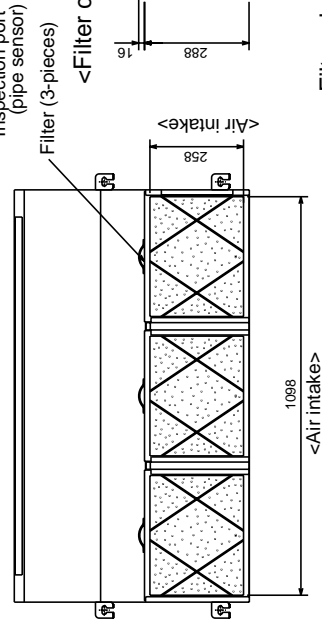
PCA-RP71HA

Unit : mm

- ① Refrigerant-pipe connection (gas pipe side/flared connection : 5/8 inch)
 - ② Refrigerant-pipe connection (liquid pipe side/flared connection : 3/8 inch)
 - ③ Flexible hose (accessory) → Drainage pipe connection (26mm I.D.)
 - ④ Knockout hole for behind refrigerant-piping arrangement
 - ⑤ Knockout hole for upper refrigerant-pipe arrangement
 - ⑥ Knockout hole for wiring arrangement : 2-φ 27
 - ⑦ Terminal block (indoor/outdoor connecting line)
 - ⑧ Terminal block (remote controller)
 - ⑨ Knockout hole (duct for fresh air intake) : 2-φ 200
- Optional parts: duct flange (φ 200). model: PAC-SF28OF-E (1 pc.)



Filter element for the exchange
model: PAC-SG38KF-E (12 pcs.)

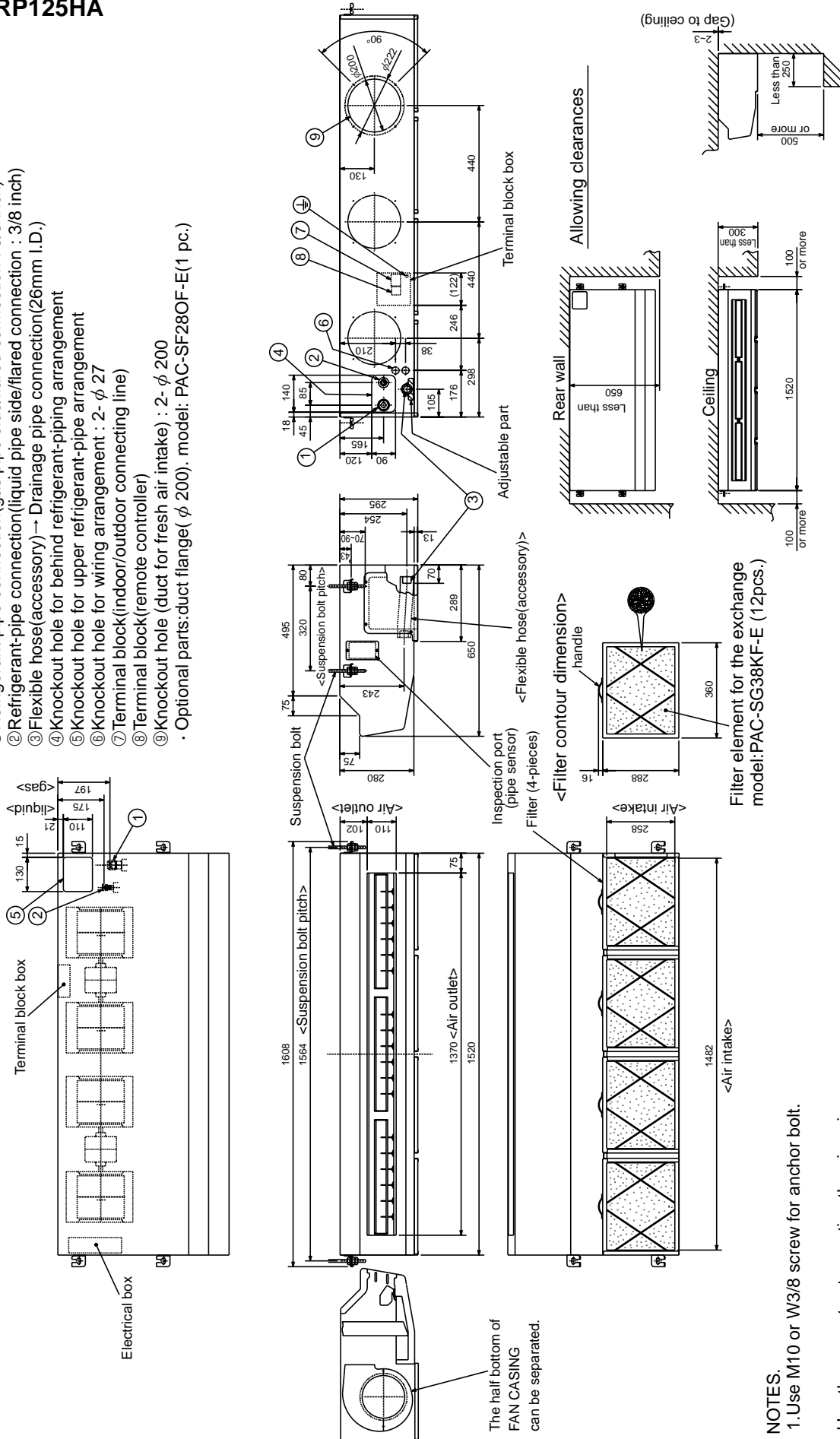


NOTES.
1. Use M10 or W3/8 screw for anchor bolt.

PCA-RP125HA

Unit : mm

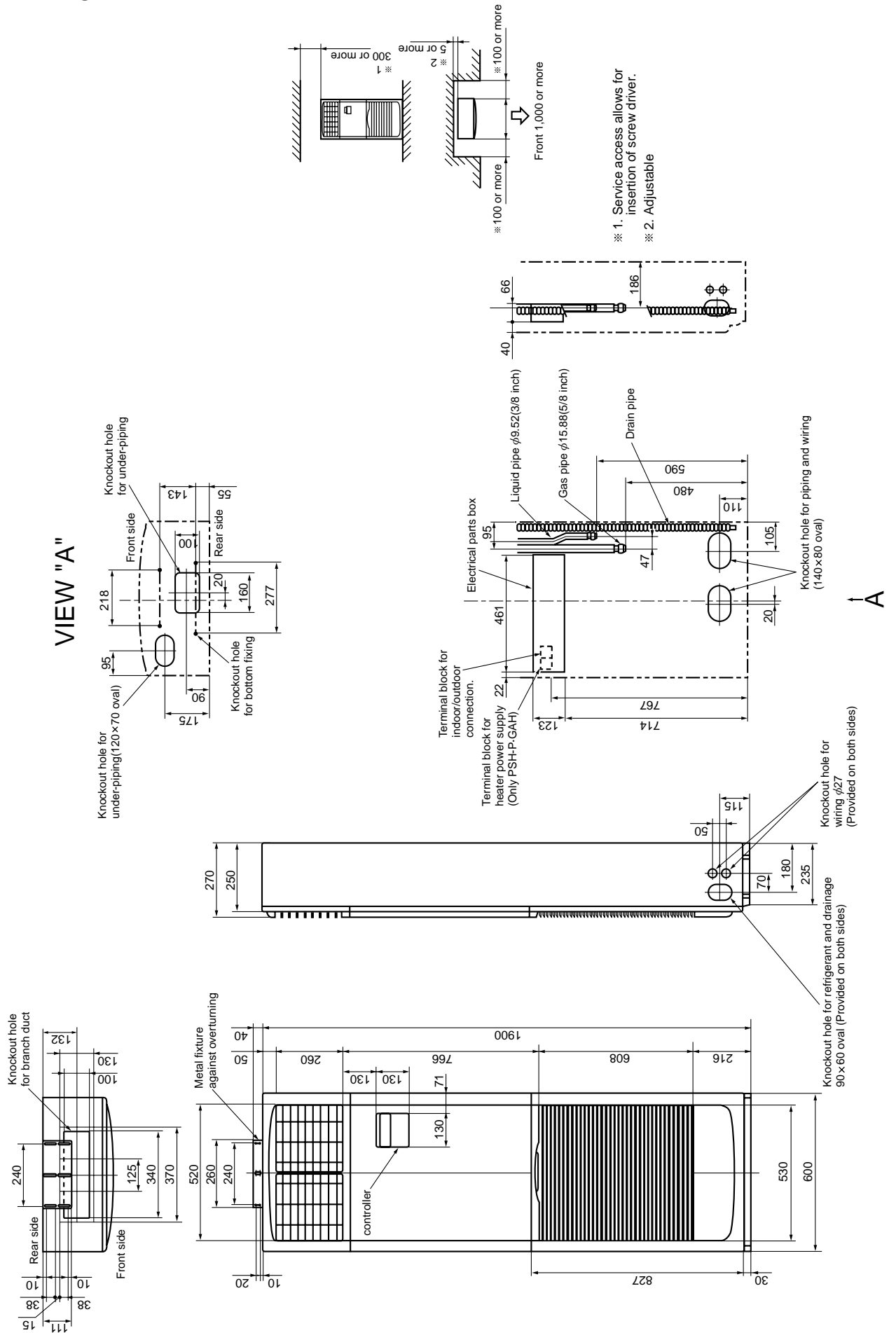
- ① Refrigerant-pipe connection (gas pipe side/flared connection : 5/8 inch)
 - ② Refrigerant-pipe connection (liquid pipe side/flared connection : 3/8 inch)
 - ③ Flexible hose (accessory) → Drainage pipe connection (26mm I.D.)
 - ④ Knockout hole for behind refrigerant-piping arrangement
 - ⑤ Knockout hole for upper refrigerant-pipe arrangement
 - ⑥ Knockout hole for wiring arrangement : 2-φ 27
 - ⑦ Terminal block (indoor/outdoor connecting line)
 - ⑧ Terminal block (remote controller)
 - ⑨ Knockout hole (duct for fresh air intake) : 2-φ 200
- Optional parts: duct flange (φ 200). model: PAC-SF28OF-E (1 pc.)



NOTES.
 1. Use M10 or W3/8 screw for anchor bolt.
 Use the current nuts meeting the pipe size of the outdoor unit.

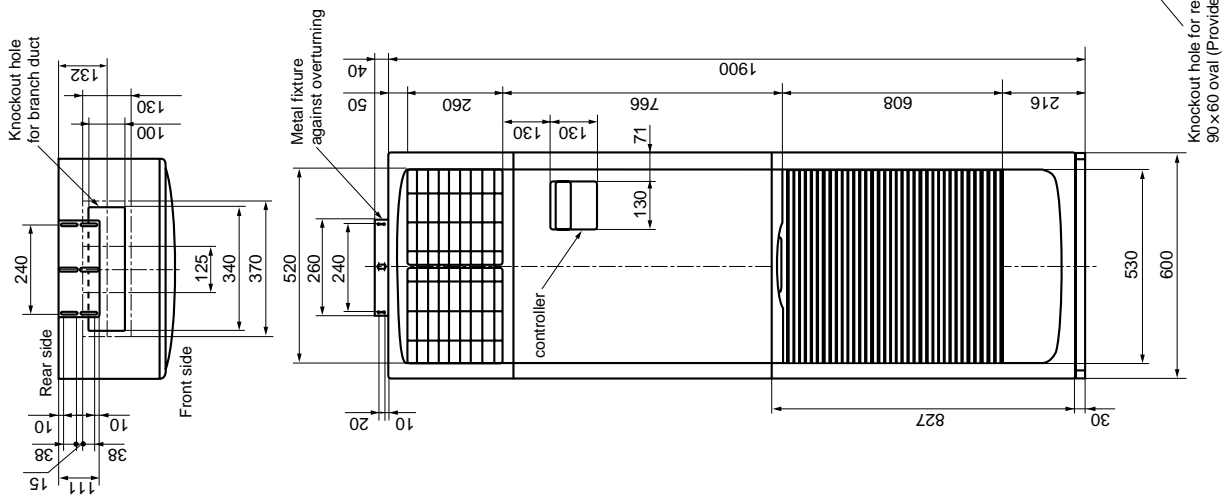
PSA-RP71GA

Unit : mm

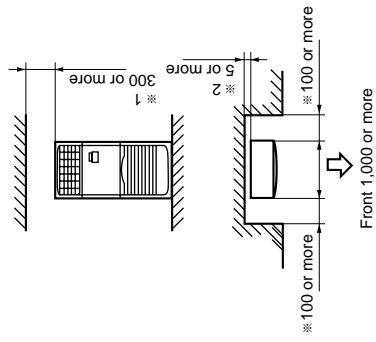
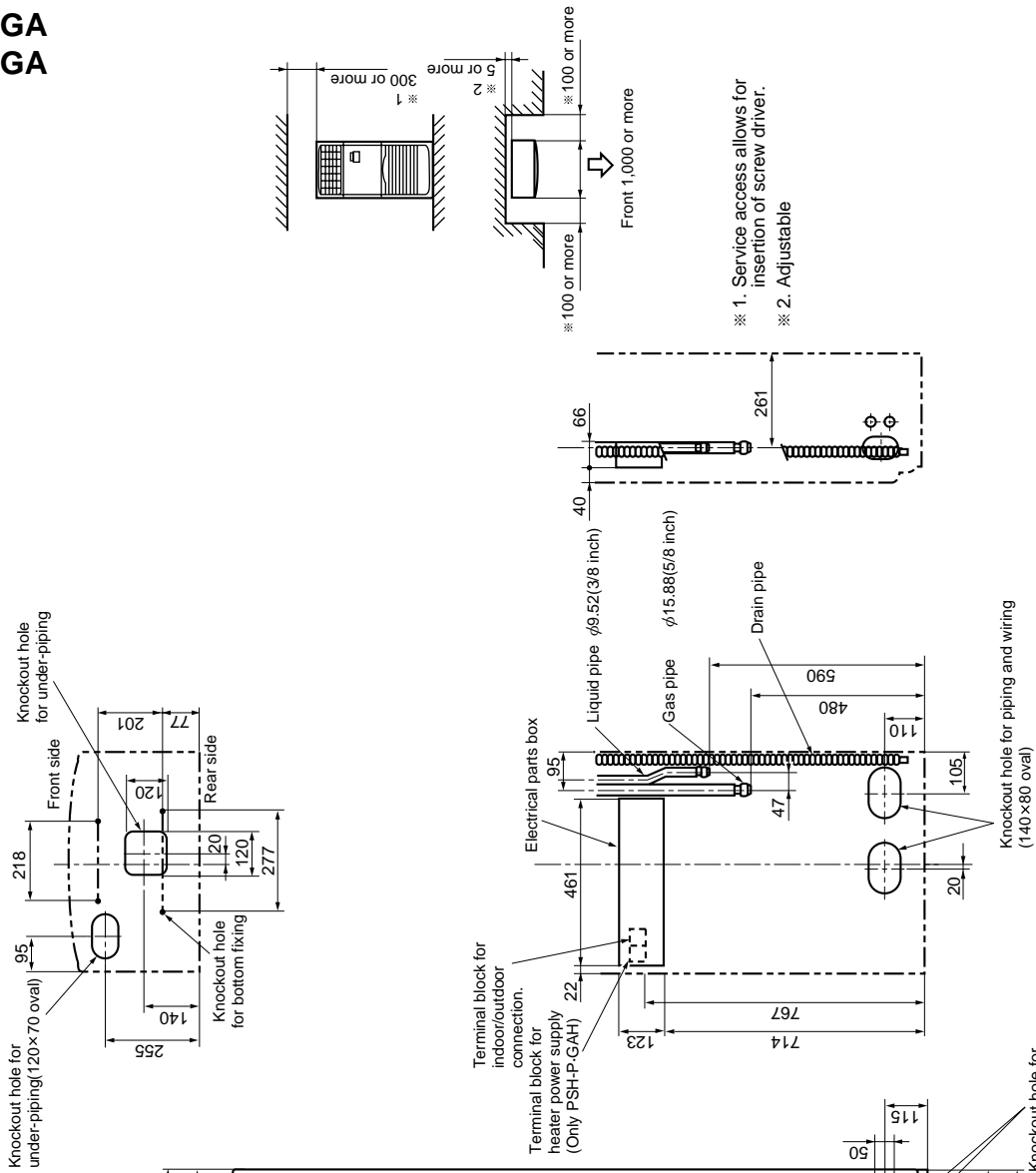


PSA-RP100GA
PSA-RP125GA
PSA-RP140GA

Unit : mm



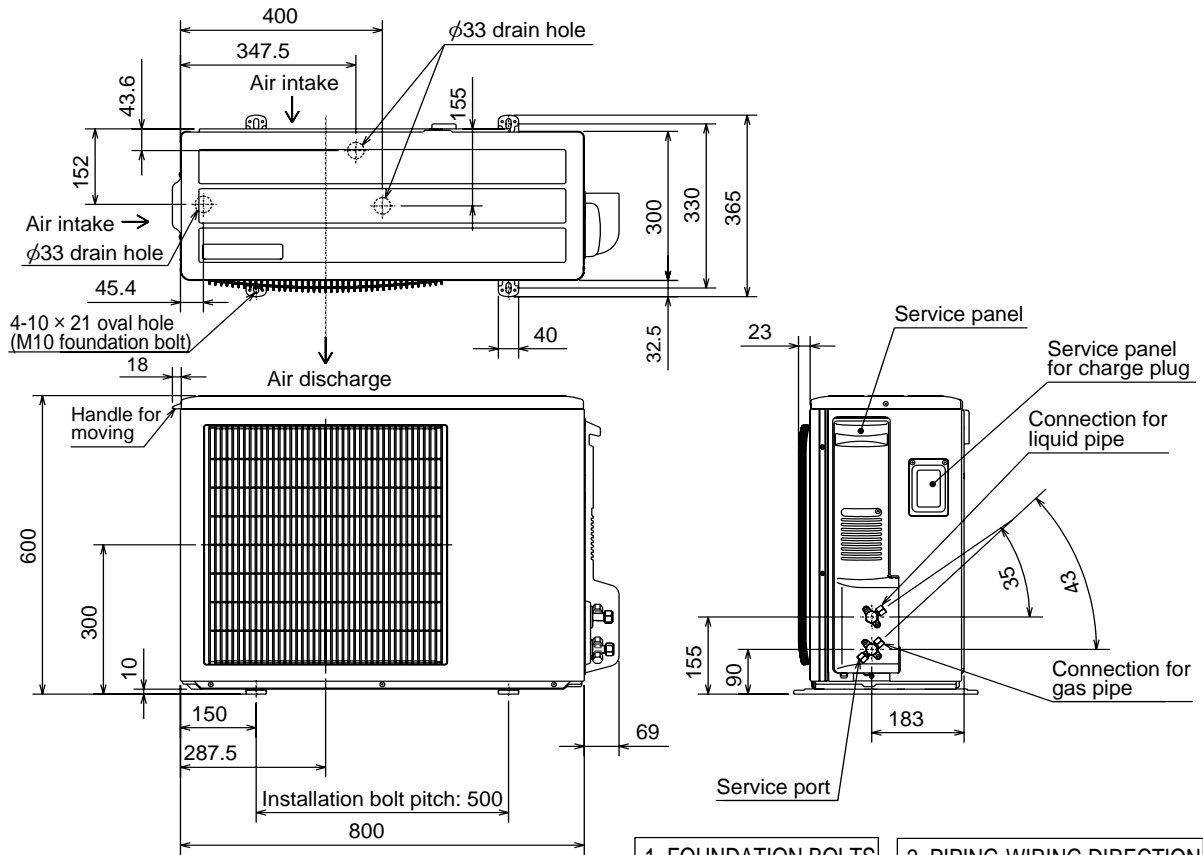
VIEW "A"



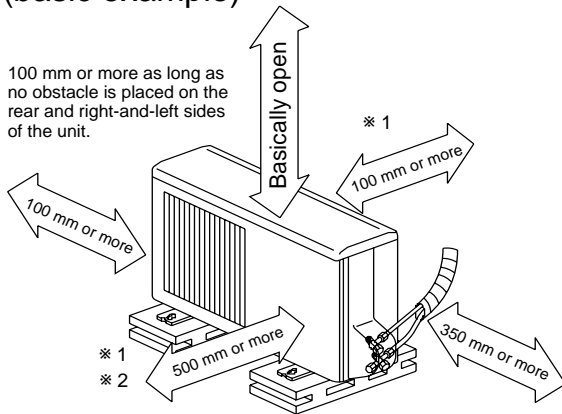
A

PUHZ-RP35VHA4
PUHZ-RP50VHA4

Unit : mm



Free space around the outdoor unit (basic example)



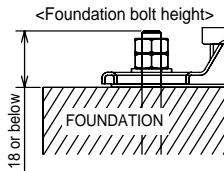
2 sides should be open in the right, left and rear side.

Minimum installation space for outdoor unit

- * 1 In the place where short cycle tends to occur, cooling and heating capacity and power consumption might get lowered by 10%. Air outlet guide (optional PAC-SG58SG) will help them improve.
- * 2 If air discharges to the wall, the surface might get stained.

1. FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation (M10) bolts. (Bolts, washer and nut must be purchased locally.)



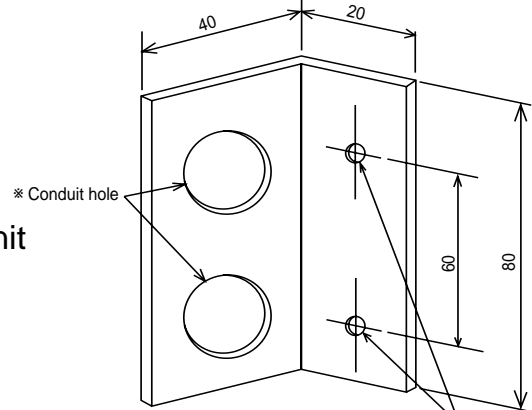
2. PIPING-WIRING DIRECTION

Piping and wiring connection can be made from the rear direction only.

3. ATTACHING THE CONDUIT

In order to attach the conduit, it is necessary to fix the metal plate with 2 screws to the back panel. Procure the metal plate and make screw holes locally. It is recommended to use the metal plate shown below. Align the metal plate to the marks on the unit and attach it.

* The position and the size of conduit hole depend on the conduit to be used.



Holes for metal plate fixing screw
* The size of hole depends on the screw to be used.

PUHZ-RP60VHA4
PUHZ-RP71VHA4

Unit : mm

4 PIPING-WIRING DIRECTIONS

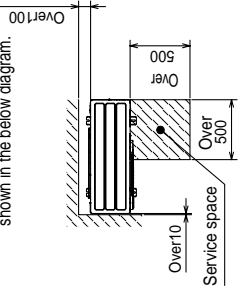
Piping and wiring connections can be made from 4 directions: front, right, rear and below.

3 FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation (M10) bolts. (Bolts and washers must be purchased locally.)

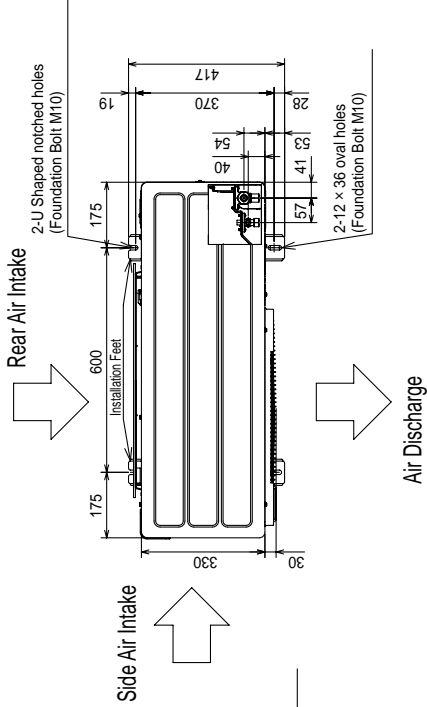
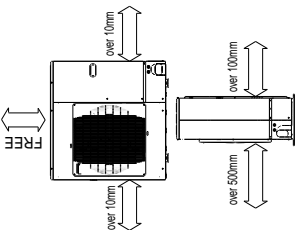
2 SERVICE SPACE

Dimensions of space needed for service access are shown in the below diagram.



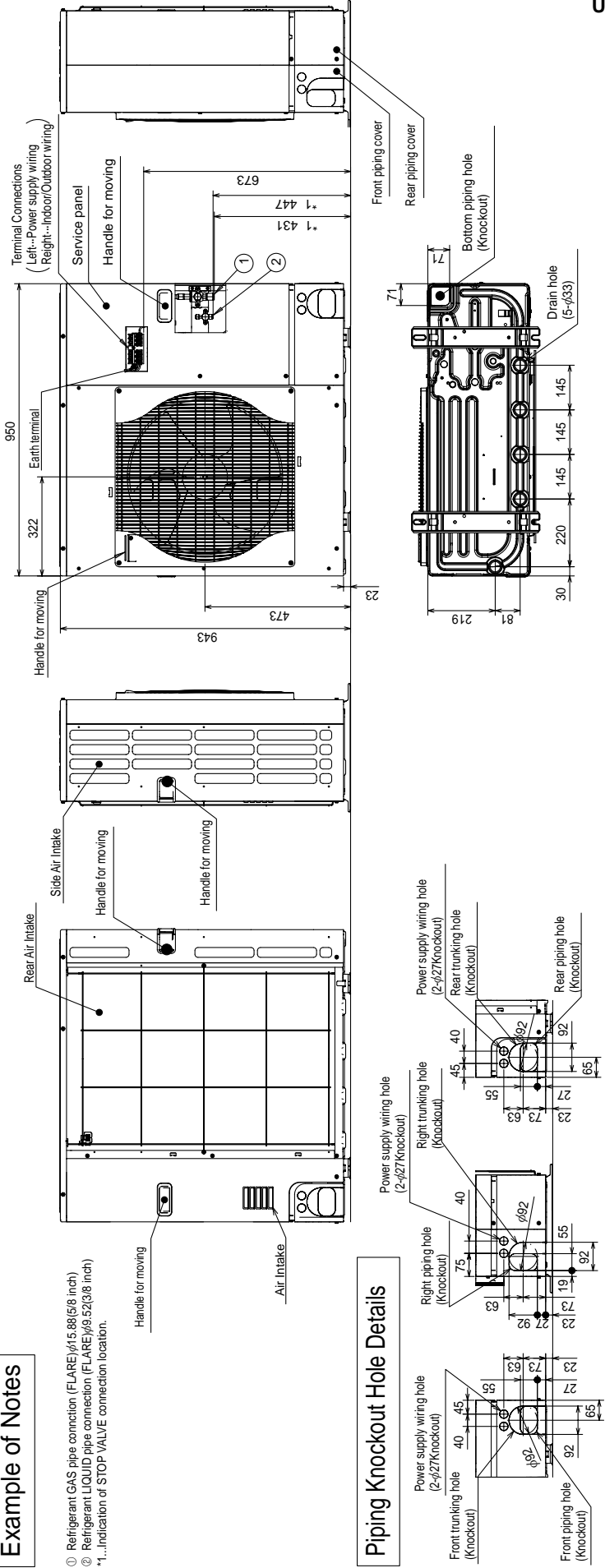
1 FREE SPACE (Around the unit)

The diagram below shows a basic example. Explanation of particular details is given in the installation manuals etc.

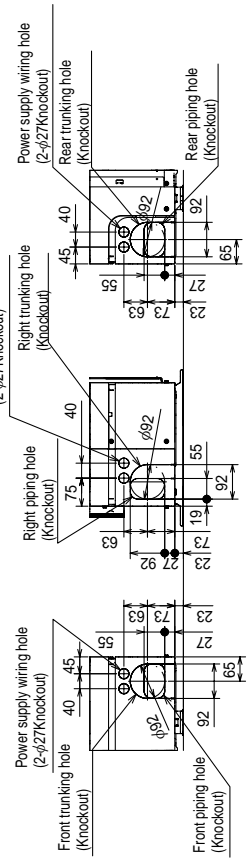


Example of Notes

- ① Refrigerant GAS pipe connection (FLARE)φ15.88(5/8 inch)
- ② Refrigerant LIQUID pipe connection (FLARE)φ9.52(3/8 inch)
- *1...Indication of STOP VALVE connection location.

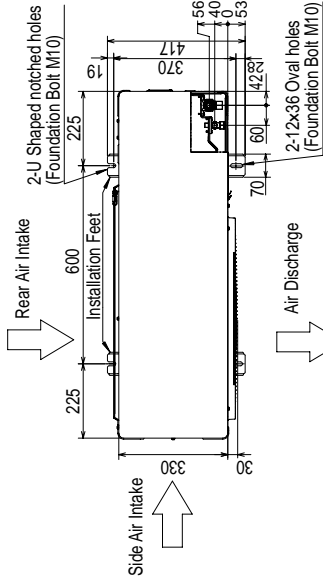


Piping Knockout Hole Details



PUHZ-RP100VKA
 PUHZ-RP125VKA
 PUHZ-RP140VKA
 PUHZ-RP100YKA
 PUHZ-RP125YKA
 PUHZ-RP140YKA

Unit : mm

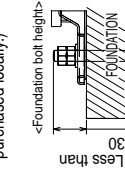


4 PIPING-WIRING DIRECTIONS

Piping and wiring connections can be made from 4 directions: FRONT, Right, Rear and Below.

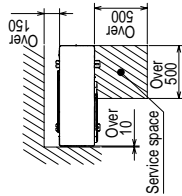
3 FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation (M10) bolts. (Bolts and washers must be purchased locally.)



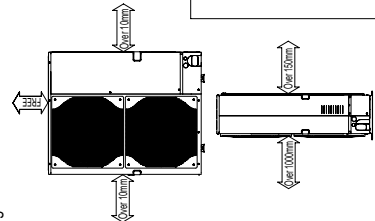
2 SERVICE SPACE

Dimensions of space needed for service access are shown in the below diagram.



1 FREE SPACE (Around the unit)

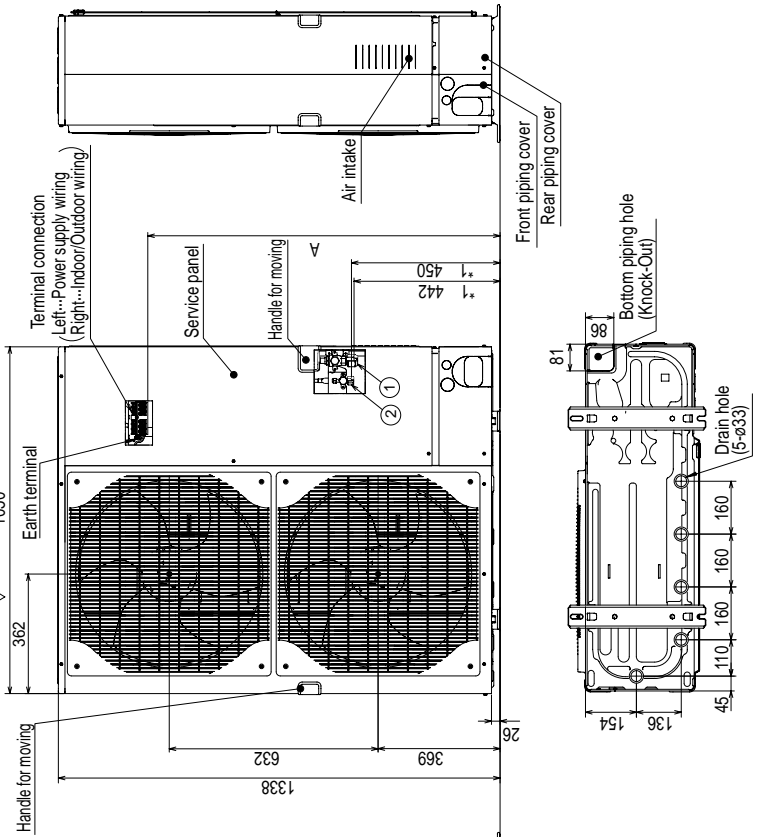
The diagram below shows a basic example. Explanation of particular details are given in the installation manuals etc.



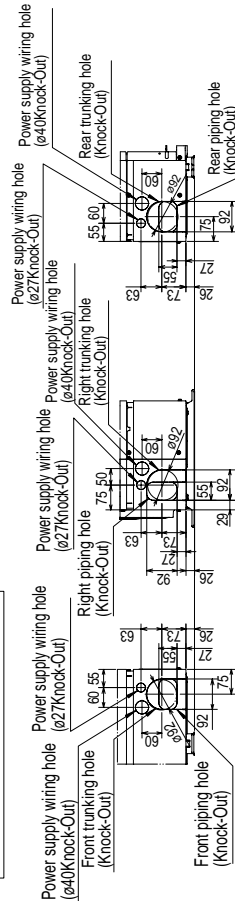
Example of Notes

- ① --Refrigerant GAS pipe connection (FLARE)φ15.88(5/8F)
- ② --Refrigerant LIQUID pipe connection (FLARE)φ9.52(3/8F)
- *1--Indication of STOP VALVE connection location.

Model	A
PUHZ-RP100-140VKA	1067
PUHZ-RP100-140YKA	919



Piping Knock-Out Hole Details



PUHZ-RP200YKA PUHZ-RP250YKA

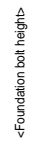
Unit : mm

4 PIPING-WIRING DIRECTIONS

Piping and wiring connections can be made from 4 directions: FRONT, Right, Rear and Below.

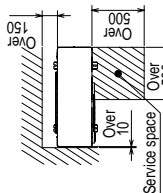
3 FOUNDATION BOLTS

Please secure the unit firmly with 4 foundation (M10) bolts. (Bolts and washers must be purchased locally).



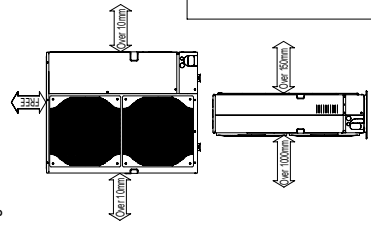
2 SERVICE SPACE

Dimensions of space needed for service access are shown in the below diagram.



1 FREE SPACE (Around the unit)

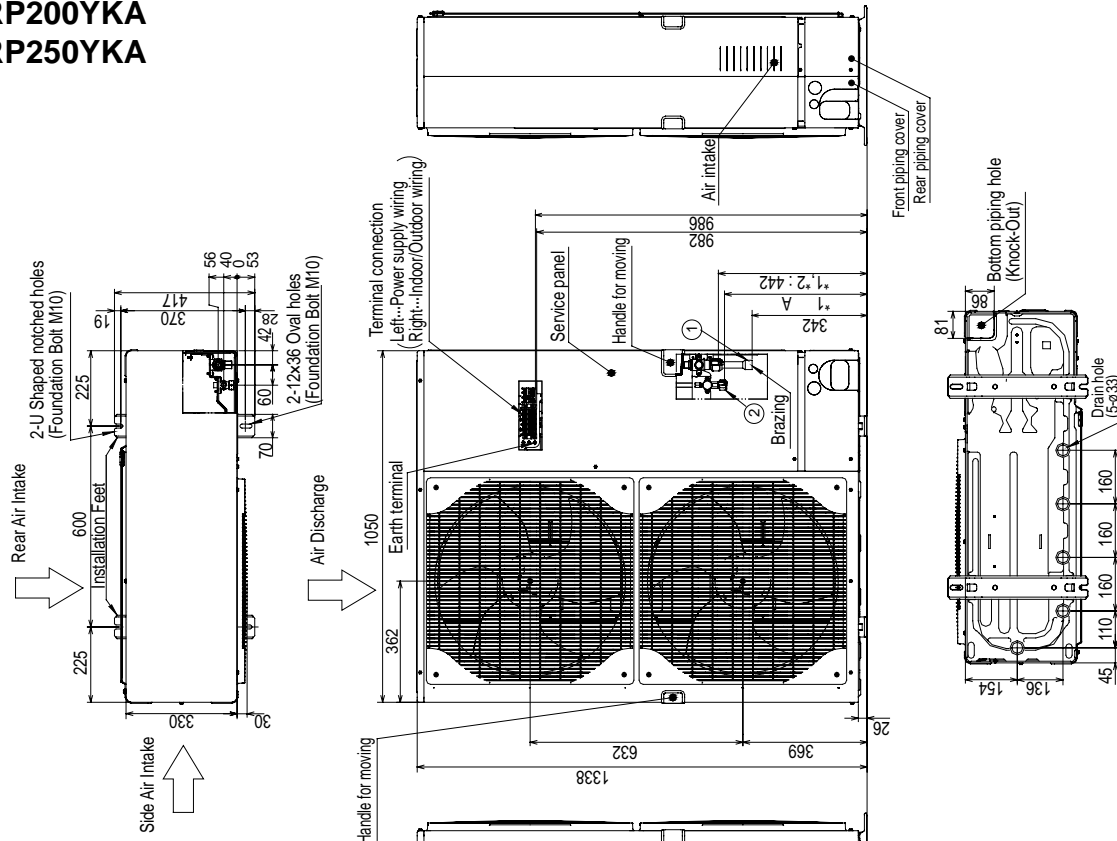
The diagram below shows a basic example. Explanation of particular details are given in the installation manuals etc.



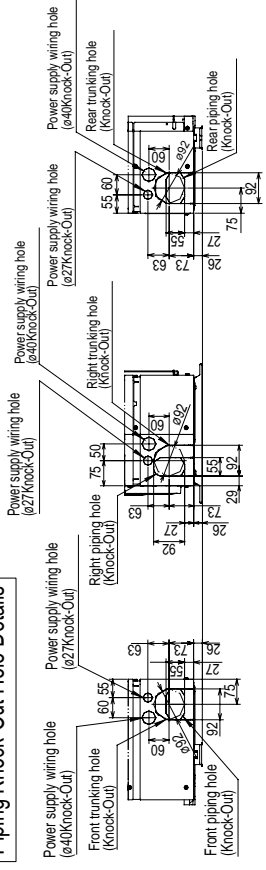
Example of Notes

- ① ...Refrigerant GAS pipe connection (attached JOINT)φ25.4(Brazing locally)
- ② ...Refrigerant LIQUID pipe connection (FLARE)
- *1...Indication of STOP VALVE connection location.
- *2...(FLARE)φ 19.05(3/4F)

Model	② connection	A
PUHZ-RP200YKA	φ9.52(3/8F)	450
PUHZ-RP250YKA	φ12.7(1/2F)	424

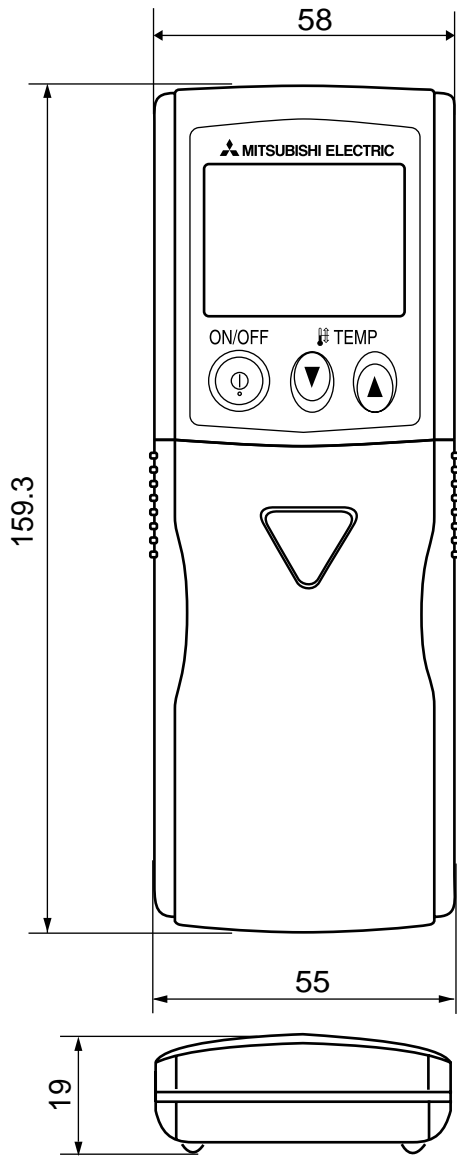


Piping Knock-Out Hole Details

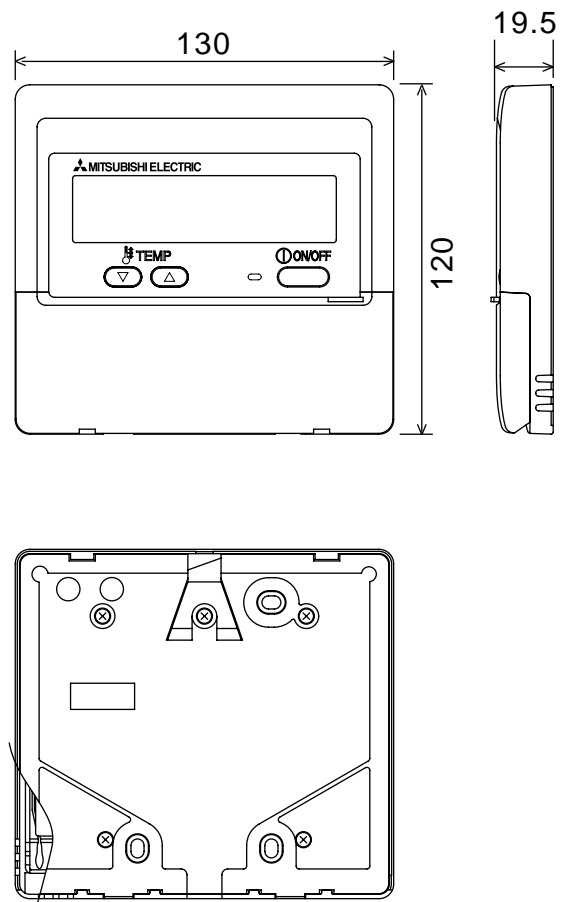


Unit : mm

WIRELESS REMOTE CONTROLLER



WIRED REMOTE CONTROLLER



4-1. INDOOR UNIT

PLA-RP35BA PLA-RP50BA PLA-RP60BA PLA-RP71BA PLA-RP100BA PLA-RP125BA
 PLA-RP71BA2 PLA-RP100BA3 PLA-RP125BA2 PLA-RP140BA2

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	TB2	TERMINAL BLOCK (Indoor unit Power (option))
CN2L	CONNECTOR (LOSSNAY)	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)
CN32	CONNECTOR (REMOTE SWITCH)	TB5, TB6	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)
CN41	CONNECTOR (HA TERMINAL-A)	TH1	ROOM TEMP. THERMISTOR (0°C / 15kΩ, 25°C / 5. 4kΩ DETECT)
CN51	CONNECTOR (CENTRALLY CONTROL)	TH2	PIPE TEMP. THERMISTOR/LIQUID (0°C / 15kΩ, 25°C / 5. 4kΩ DETECT)
FUSE	FUSE (T6.3AL250V)	TH5	COND. / EVA. TEMP. THERMISTOR (0°C / 15kΩ, 25°C / 5. 4kΩ DETECT)
LED1	POWER SUPPLY (I.B)		
LED2	POWER SUPPLY (R.B)		
LED3	TRANSMISSION (INDOOR-OUTDOOR)		
SW1	SWITCH (MODEL SELECTION) *See table 1		
SW2	SWITCH (CAPACITY CODE) *See table 2		
SWE	CONNECTOR (EMERGENCY OPERATION)		
X1	RELAY (DRAIN PUMP)		
DCL	REACTOR		
DP	DRAIN-UP MACHINE		
FS	DRAIN FLOAT SWITCH		
MF	FAN MOTOR		
MV	VANE MOTOR		

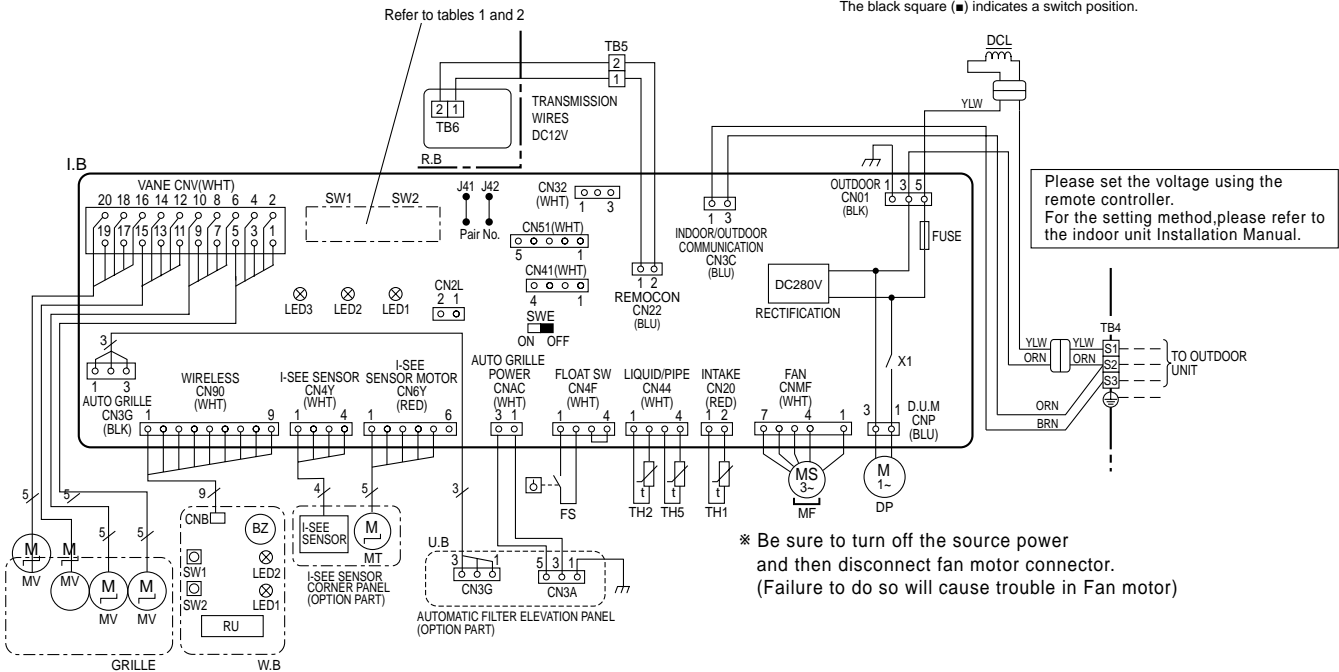
<Table 1> SW1 (MODEL SELECTION)

SW1	
MODELS	SETTING
PLA-RP-BA	
PLA-RP71/125BA2	
PLA-RP140BA2 PLA-RP100BA3	

<Table 2> SW2 (CAPACITY CODE)

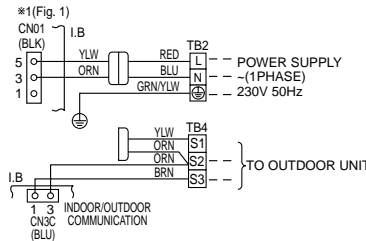
SW2			
CAPACITY	SETTING	CAPACITY	SETTING
35		100	
50		125	
60		140	
71			

The black square (■) indicates a switch position.

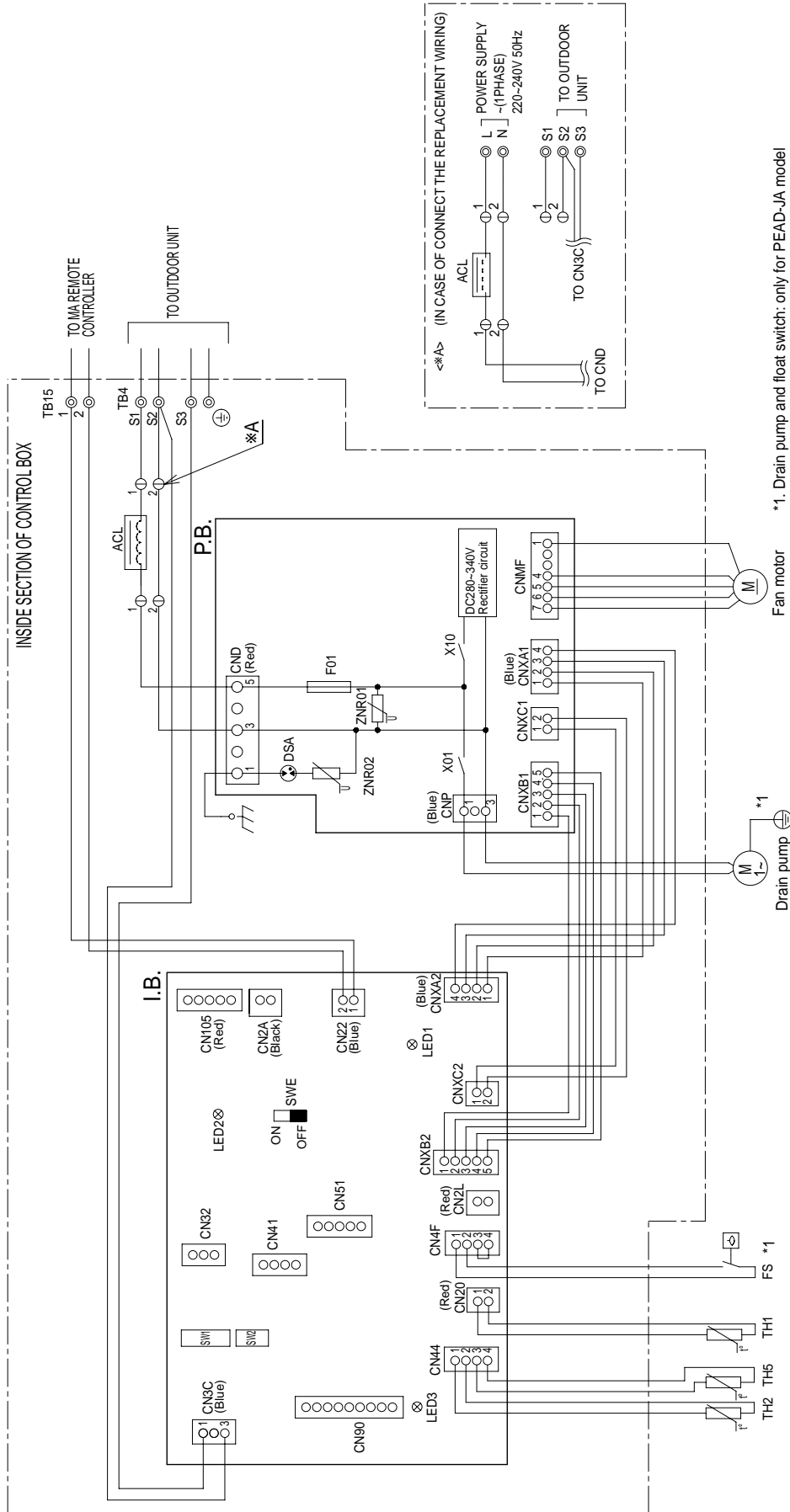


Notes:

- Symbols used in wiring diagram above are: : Connector, : Terminal (block).
- Indoor and outdoor connecting wires have polarities, make sure to match terminal numbers (S1, S2, S3) for correct wirings.
- Since the outdoor side electric wiring may change, be sure to check the outdoor unit electric wiring diagram for servicing.
- This diagram shows the wiring of indoor and outdoor connecting wires. (specification of 230V), adopting superimposed system for power and signal.
 - *1: If indoor and outdoor units have separate power supplies, refer to Fig 1.
 - *2: For power supply system of this unit, refer to the caution label located near this diagram.



PEAD-RP35JA(L) PEAD-RP50JA(L) PEAD-RP60JA(L) PEAD-RP71JA(L)
 PEAD-RP100JA(L) PEAD-RP125JA(L) PEAD-RP140JA(L)



*1. Drain pump and float switch: only for PEAD-JA model

SYMBOL EXPLANATION

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I.B.	Indoor controller board	TH1	Intake air temp. Thermistor	TH1	Intake air temp. Thermistor
CN2A	Connector (0-10V Analog input)	TH2	Pipe temp. Thermistor/liquid	TH2	Pipe temp. Thermistor/liquid
CN2L	Connector (Lossnay)	TH5	Cond./eva.temp. Thermistor	TH5	Cond./eva.temp. Thermistor
CN32	Connector (Remote switch)	ACL	AC reactor (Power factor improvement)	ACL	AC reactor (Power factor improvement)
CN41	Connector (HA terminal-A)	FS	Float switch	FS	Float switch
CN51	Connector (Centrally control)	TB4	Fuse AC250V 6.3A	TB4	Terminal block (Indoor/outdoor connecting line)
CN90	Connector (Wireless)	ZNR01, 02	Variistor	ZNR01, 02	Terminal block (Indoor/outdoor connecting line)
CN105	Connector (IT terminal)	DSA	Arrester	DSA	Terminal block (Remote controller transmission line)
LED1	LED(Power supply)	X01	Aux. relay	X01	Terminal block
LED2	LED(Remote controller supply)	X10	Aux. relay	X10	Terminal block
LED3	LED(Transmission indoor-outdoor)				

- NOTE: 1. Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.
 2. Indoor and outdoor connecting wires are made with polarities, make wiring matching terminal numbers (S1, S2, S3).
 3. Symbols used in wiring diagram above are, ⊕ terminal block, ⊙ connector.

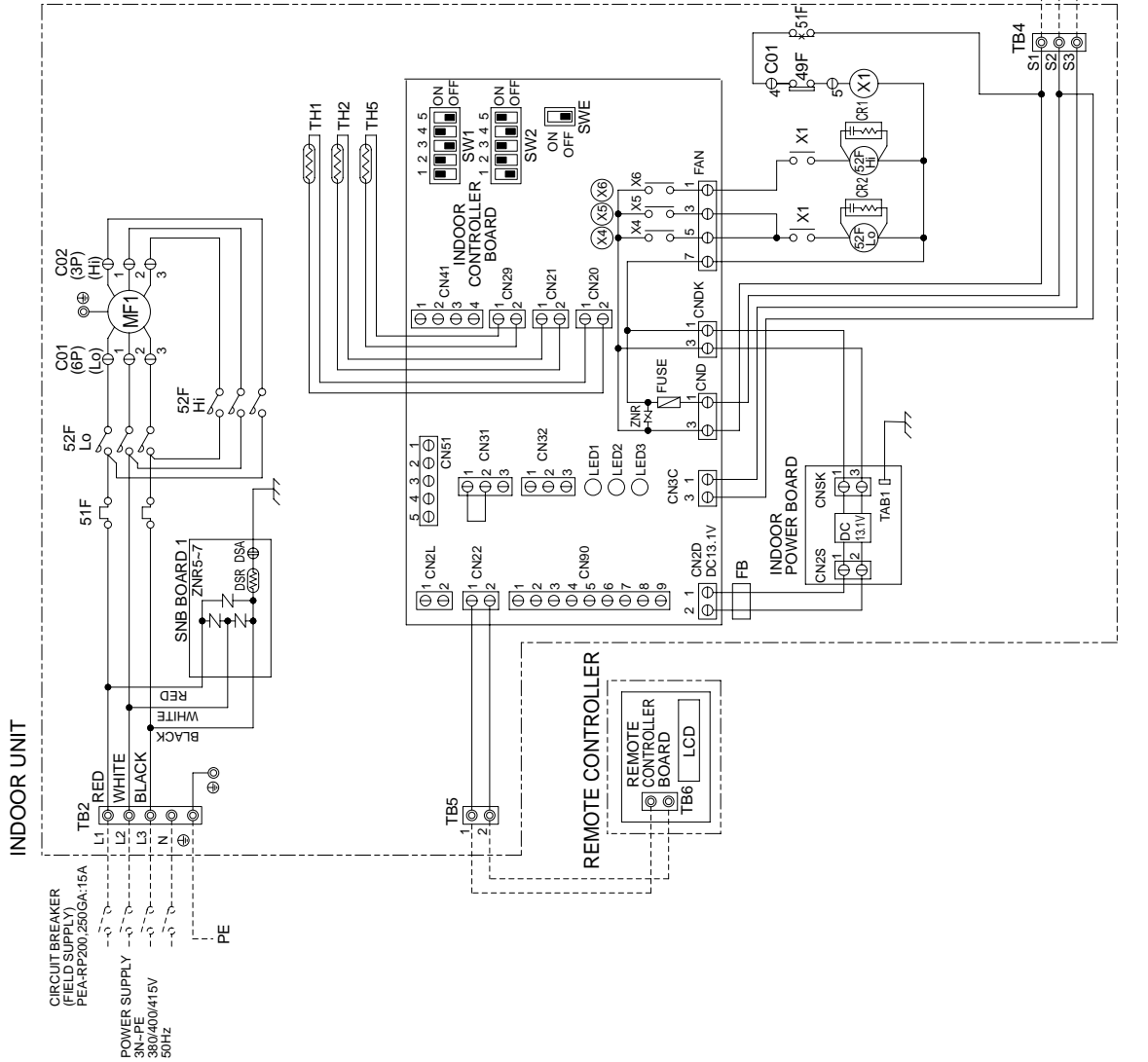
PEA-RP200, 250GA

INDOOR UNIT SYMBOL	NAME
MF1	FAN MOTOR (INDOOR)
51F	OVER CURRENT RELAY (INDOOR FAN MOTOR)
52FLo	MAGNETIC CONTACTOR (INDOOR FAN MOTOR-LOW SPEED->)
52FHi	MAGNETIC CONTACTOR (INDOOR FAN MOTOR-HIGH SPEED->)
49F	INTERNAL THERMOSTAT (INDOOR FAN MOTOR)
TB2.4.5	TERMINAL BLOCK
TH1	ROOM TEMP.
TH2	LIQUID PIPE TEMP.
TH5	COND./EVA. TEMP.
X1	AUXILIARY RELAY
CR1.2	SURGE KILLER
FB	FERRITE CORE
	FUSE (T6.5AL250V)
ZNR	VARIATOR
X4-6	AUXILIARY RELAY
SW1	SWITCH (MODEL SELECTION)
SW2	SWITCH (CAPACITY CODE)
SWE	CONNECTOR (EMERGENCY OPERATION)
LED1	LED (POWER SUPPLY)
LED2	LED (POWER SUPPLY->REMOTE CONTROLLER->)
LED3	LED (TRANSMISSION->INDOOR->OUTDOOR->)
CN2L	CONNECTOR (LOSSNAY)
CN31	CONNECTOR (DRAIN SENSOR)
CN32	CONNECTOR (REMOTE SWITCH)
CN41	CONNECTOR (HA TERMINAL-A)
CN51	CONNECTOR (CENTRALLY CONTROL)
CN90	CONNECTOR (WIRELESS REMOTE CONTROLLER)
ZNR5-7	VARIATOR
DSA.DSR	ARRESTER

REMOTE CONTROLLER SYMBOL	NAME
TB6	TERMINAL BLOCK

- Note:1. The dotted lines show field wiring.
 2. Color of earth wire is yellow and green twisting.
 3. Specification subject to change without notice.
 4. Indoor and outdoor connecting wires have polarities, make sure to match wiring and terminal.
 5. Emergency operation
 If a trouble occurs with either the remote controller or the indoor microcomputer and no other trouble exists, emergency operation for cooling or heating can be performed by changing the setting of connector (SWE) "ON" on the indoor controller board.
 SWE : ON / Indoor fan is running at high speed.
 6. ⊕mark is connector. ⊙mark is terminal.

- Caution,
 1. To protect fan motor from abnormal current, overcurrent relays are installed. Therefore, do not change factory set value of overcurrent relays.



PEA-RP400, 500GA

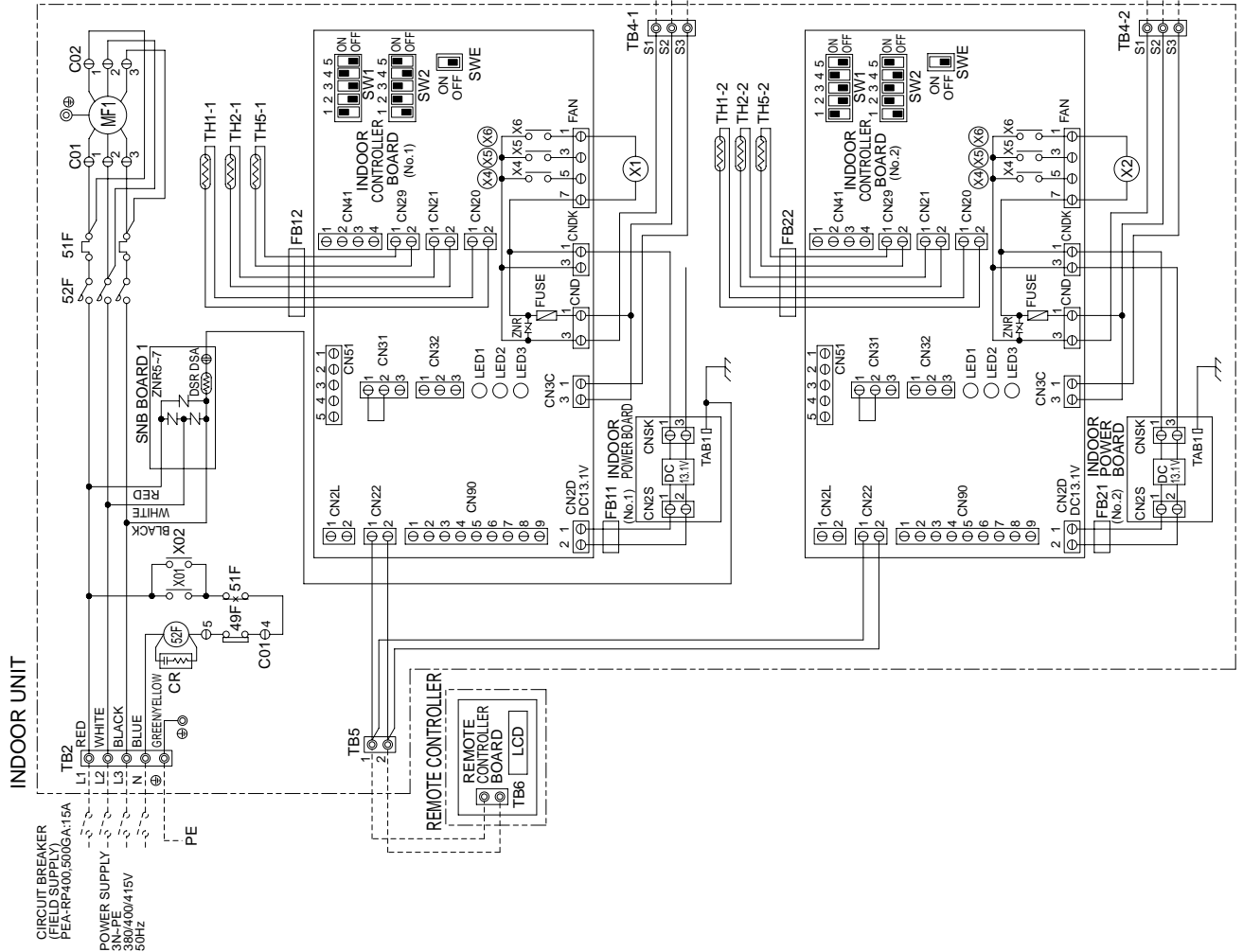
INDOOR UNIT SYMBOL	NAME
MF1	FAN MOTOR (INDOOR)
51F	OVER CURRENT RELAY (INDOOR FAN MOTOR)
52F	MAGNETIC CONTACTOR (INDOOR FAN MOTOR)
49F	INTERNAL THERMOSTAT (INDOOR FAN MOTOR)
TB2,4,1,4,2,5	TERMINAL BLOCK
TH1-1,1-2	ROOM TEMP.
TH2-1,2-2	LIQUID PIPE TEMP.
TH5-1,5-2	COND./EVA. TEMP.
X1,2	AUXILIARY RELAY
CR	SURGE KILLER
FB11,FB12	FERRITE CORE
FB21,FB22	FUSE (T6,3AL250V)
ZNR	VARIATOR
X4-6	AUXILIARY RELAY
SW1	SWITCH (MODEL SELECTION)
SW2	SWITCH (CAPACITY CORD)
SWE	CONNECTOR (EMERGENCY OPERATION)
LED1	LED (POWER SUPPLY)
LED2	LED (POWER SUPPLY-REMOTE CONTROLLER->)
LED3	LED (TRANSMISSION<INDOOR-OUTDOOR->)
CN2L	CONNECTOR (LOSSNAY)
CN31	CONNECTOR (DRAIN SENSOR)
CN32	CONNECTOR (REMOTE SWITCH)
CN41	CONNECTOR (HA TERMINAL-A)
CN51	CONNECTOR (CENTRALLY CONTROL)
CN60	CONNECTOR (WIRELESS REMOTE CONTROLLER)
ZNR5-7	VARIATOR
BOARD 1	DSA,DSR ARRESTER

OUTDOOR UNIT SYMBOL	TERMINAL BLOCK NAME
TB3,TB8	TERMINAL BLOCK

REMOTE CONTROLLER SYMBOL	TERMINAL BLOCK NAME
TB6	TERMINAL BLOCK

- Note:1. The dotted lines show field wiring.
 2. Color of earth wire is yellow and green twisting.
 3. Specification subject to change without notice.
 4. Indoor and outdoor connecting wires have polarities, make sure to match wiring and terminal.
 5. Emergency operation
 If a trouble occurs with either the remote controller or the indoor microcomputer and no other trouble exists, emergency operation for cooling or heating can be performed by changing the setting of connector (SWE) "ON" on the indoor controller board.
 SWE :ON / Indoor fan is running at high speed.
 6. Ⓞmark is connector. Ⓞmark is terminal.

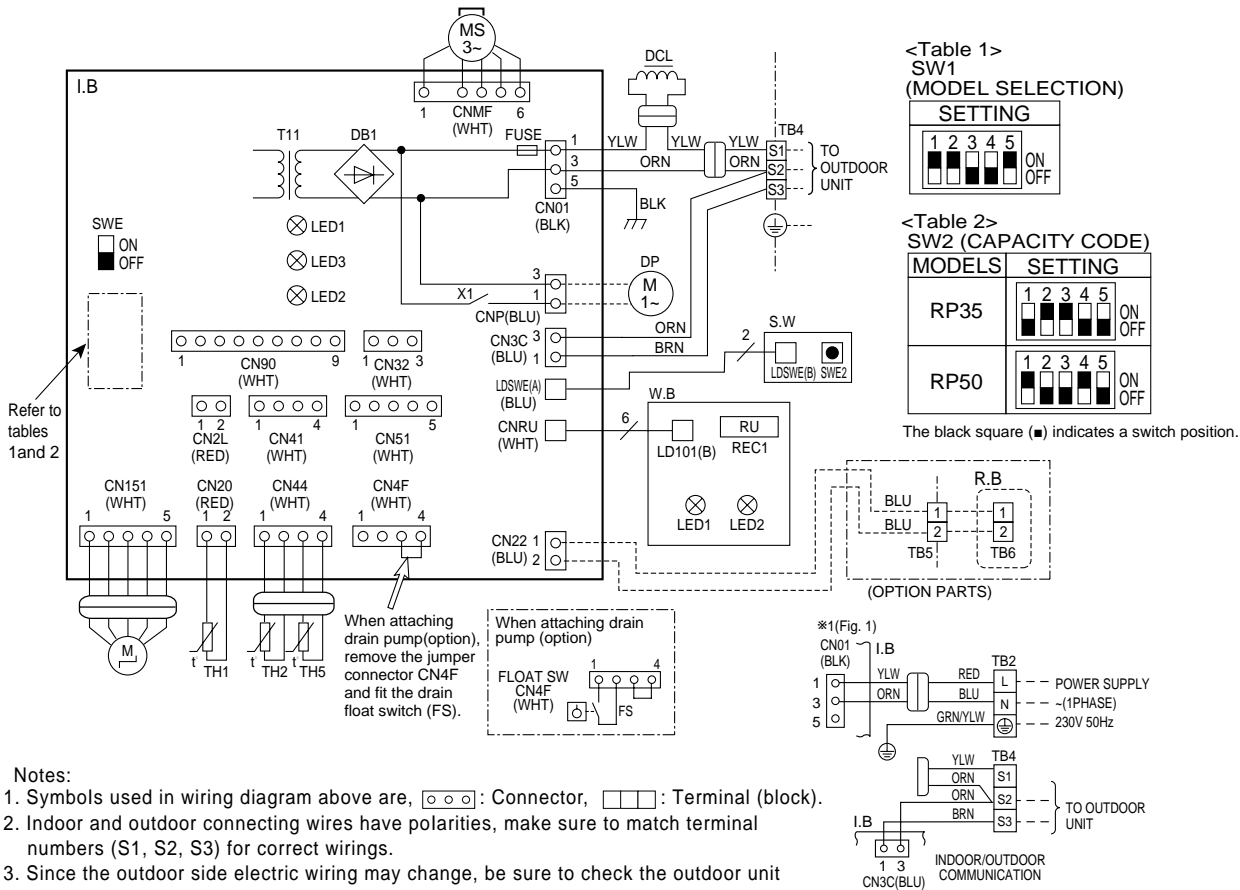
Caution,
 1. To protect fan motor from abnormal current, overcurrent relays are installed. Therefore, do not change factory set value of overcurrent relays.



PKA-RP35HAL PKA-RP50HAL

[Explanation of symbols]

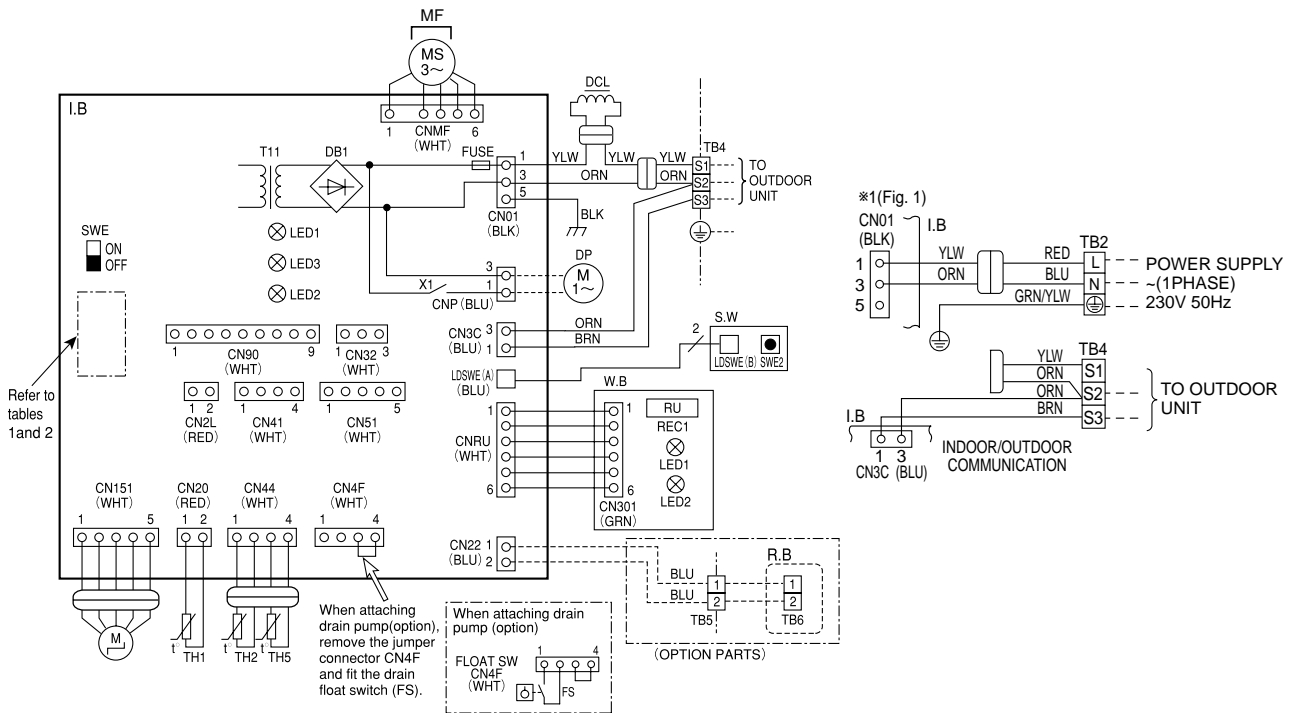
Symbol	Name	Symbol	Name
I.B	Indoor controller board	M	Vane motor
CN2L	Connector (LOSSNAY)	MS	Fan motor
CN32	Connector (Remote switch)	S.W	Switch board
CN41	Connector (HA terminal-A)	SWE2	Emergency operation
CN51	Connector (Centrally control)	TB2	Terminal block (Indoor unit Power (option))
CN90	Connector (Remote operation adapter)	TB4	Terminal block (Indoor/outdoor connecting line)
FUSE	FUSE(T3.15A/250V)	TB5	Terminal block (Remote controller transmission line(option))
LED1	Power supply (L.B)	TH1	Room temp. Thermistor (0°C/15kΩ, 25°C/5.4kΩ Detect)
LED2	Power supply (R.B)	TH2	Pipe temp. Thermistor/liquid (0°C/15kΩ, 25°C/5.4kΩ Detect)
LED3	Transmission (Indoor-outdoor)	TH5	Cond./eva. temp. Thermistor (0°C/15kΩ, 25°C/5.4kΩ Detect)
SW1	Switch (Model selection) *See table 1	W.B	Pcb for wireless remote controller
SW2	Switch (Capacity code) *See table 2	LED1	LED (Operation indication : Green)
SWE	Connector (Emergency operation)	LED2	LED (Preparation for heating: Orange)
X1	Relay (Drain pump (option))	REC1	Receiving unit
CNP	Drain pump (option) power supply (Drain pump (option))	DCL	REACTOR
CN4F	Drain float switch (Drain pump (option))	DP	DRAIN PUMP (OPTION)
R.B	Wired remote controller(option)	FS	DRAIN FLOAT SWITCH (OPTION)
TB6	Terminal block (Remote controller transmission line)		



PKA-RP60KAL PKA-RP71KAL PKA-RP100KAL

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
I.B	Indoor controller board	M	Vane motor
CN2L	Connector (LOSSNAY)	MS	Fan motor
CN32	Connector (Remote switch)	S.W	Switch board
CN41	Connector (HA terminal-A)	SWE2	Emergency operation
CN51	Connector (Centrally control)	TB2	Terminal block (Indoor unit Power (option))
CN90	Connector (Remote operation adapter)	TB4	Terminal block (Indoor/outdoor connecting line)
FUSE	FUSE (T3.15AL250V)	TB5	Terminal block (Remote controller transmission line)
LED1	Power supply (I.B)	TH1	Room temp. Thermistor (0°C / 15kΩ, 25°C / 5.4kΩ Detect)
LED2	Power supply (R.B)	TH2	Pipe temp. Thermistor/liquid (0°C / 15kΩ, 25°C / 5.4kΩ Detect)
LED3	Transmission (Indoor-outdoor)	TH5	Cond. / eva. temp. Thermistor (0°C / 15kΩ, 25°C / 5.4kΩ Detect)
SW1	Switch (Model selection) *See table 1	W.B	Pcb for wireless remote controller
SW2	Switch (Capacity code) *See table 2	LED1	LED (Operation indication : Green)
SWE	Connector (Emergency operation)	LED2	LED (Preparation for heating : Orange)
X1	Relay (Drain pump(option))	REC1	Receiving unit
CNP	Drain pump (option) power supply (Sold separately:Drain pump(option))	DCL	REACTOR
CN4F	Drain float switch (Sold separately:Drain pump (option))	DP	DRAIN PUMP (OPTION)
R.B	Wired remote controller	FS	DRAIN FLOAT SWITCH (OPTION)
TB6	Terminal block (Remote controller transmission line)		



<Table 1>

SW1 (MODEL SELECTION)

SETTING
1 2 3 4 5
ON OFF

<Table 2>

SW2 (CAPACITY CODE)

MODELS	SETTING	MODELS	SETTING	MODELS	SETTING
PKA-RP60KAL	1 2 3 4 5	PKA-RP71KAL	1 2 3 4 5	PKA-RP100KAL	1 2 3 4 5
	ON OFF		ON OFF		ON OFF

The black square (■) indicates a switch position.

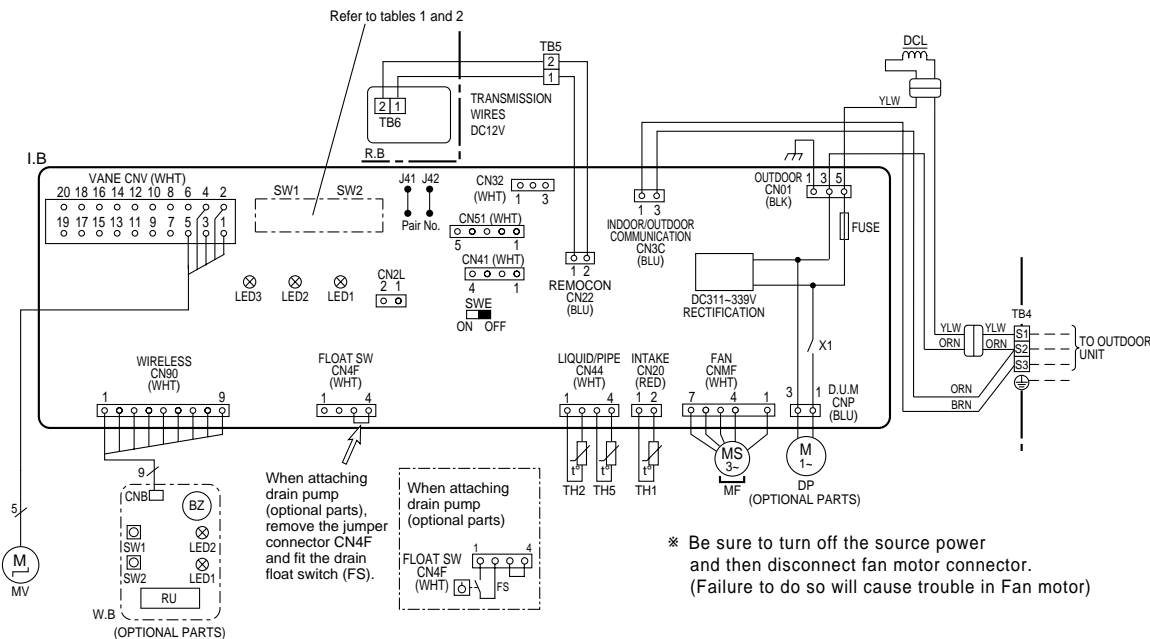
Notes:

- Symbols used in wiring diagram above are, :Connector, : Terminal (block).
- Indoor and outdoor connecting wires have polarities, make sure to match terminal numbers (S1, S2, S3) for correct wirings.
- Since the outdoor side electric wiring may change, be sure to check the outdoor unit electric wiring diagram for servicing.
- This diagram shows the wiring of indoor and outdoor connecting wires.(specification of 230V), adopting superimposed system for power and signal.
 - *1 If indoor and outdoor units have separate power supplies, refer to Fig 1.
 - *2 For power supply system of this unit, refer to the caution label located near this diagram.

PCA-RP50KA PCA-RP60KA PCA-RP71KA
PCA-RP100KA PCA-RP125KA PCA-RP140KA

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)
CN2L	CONNECTOR (LOSSNAY)	TB5,TB6	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)
CN32	CONNECTOR (REMOTE SWITCH)	TH1	ROOM TEMP. THERMISTOR (0°C / 15kΩ, 25°C / 5.4kΩ DETECT)
CN41	CONNECTOR (HA TERMINAL-A)	TH2	PIPE TEMP. THERMISTOR/LIQUID (0°C / 15kΩ, 25°C / 5.4kΩ DETECT)
CN51	CONNECTOR (CENTRALLY CONTROL)	TH5	COND. / EVA. TEMP. THERMISTOR (0°C / 15kΩ, 25°C / 5.4kΩ DETECT)
FUSE	FUSE (T6.3A/250V)	OPTIONAL PARTS	
LED1	POWER SUPPLY (L.B)	W.B	PCB FOR WIRELESS REMOTE CONTROLLER
LED2	POWER SUPPLY (R.B)	BZ	BUZZER
LED3	TRANSMISSION (INDOOR-OUTDOOR)	LED1	LED (OPERATION INDICATION : GREEN)
SW1	SWITCH (MODEL SELECTION) ※ See table 1	LED2	LED (PREPARATION FOR HEATING : ORANGE)
SW2	SWITCH (CAPACITY CODE) ※ See table 2	RU	RECEIVING UNIT
SWE	CONNECTOR (EMERGENCY OPERATION)	SW1	EMERGENCY OPERATION (HEAT / DOWN)
X1	RELAY (DRAIN PUMP)	SW2	EMERGENCY OPERATION (COOL / UP)
R.B	WIRED REMOTE CONTROLLER BOARD	DP	DRAIN LIFT UP MECHANISM
DCL	REACTOR	FS	DRAIN FLOAT SWITCH
MF	FAN MOTOR		
MV	VANE MOTOR		
TB2	TERMINAL BLOCK (Indoor unit Power (optional parts))		



<Table 1> SW1 (MODEL SELECTION)

SW1	Service
1 2 3 4 5	ON OFF

<Table 2> SW2 (CAPACITY CODE)

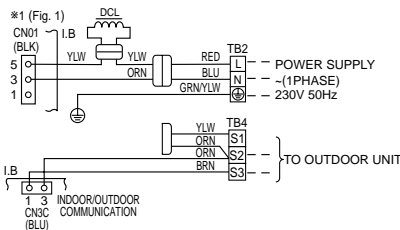
MODELS	Service	MODELS	Service
PCA-RP50KA	1 2 3 4 5 ON OFF	PCA-RP100KA	1 2 3 4 5 ON OFF
PCA-RP60KA	1 2 3 4 5 ON OFF	PCA-RP125KA	1 2 3 4 5 ON OFF
PCA-RP71KA	1 2 3 4 5 ON OFF	PCA-RP140KA	1 2 3 4 5 ON OFF

The black square (■) indicates a switch position.

- Notes: 1. Symbols used in wiring diagram above are, □○□:Connector, □□□:Terminal (block).
2. Indoor and outdoor connecting wires are made with polarities, make wiring matching terminal numbers (S1, S2, S3).
3. Since the outdoor side electric wiring may change, be sure to check the outdoor unit electric wiring for servicing.
4. This diagram shows the wiring of indoor and outdoor connecting wires (specification of 230V), adopting superimposed system for power and signal.

※1: If indoor and outdoor units have separate power supplies, refer to Fig. 1.

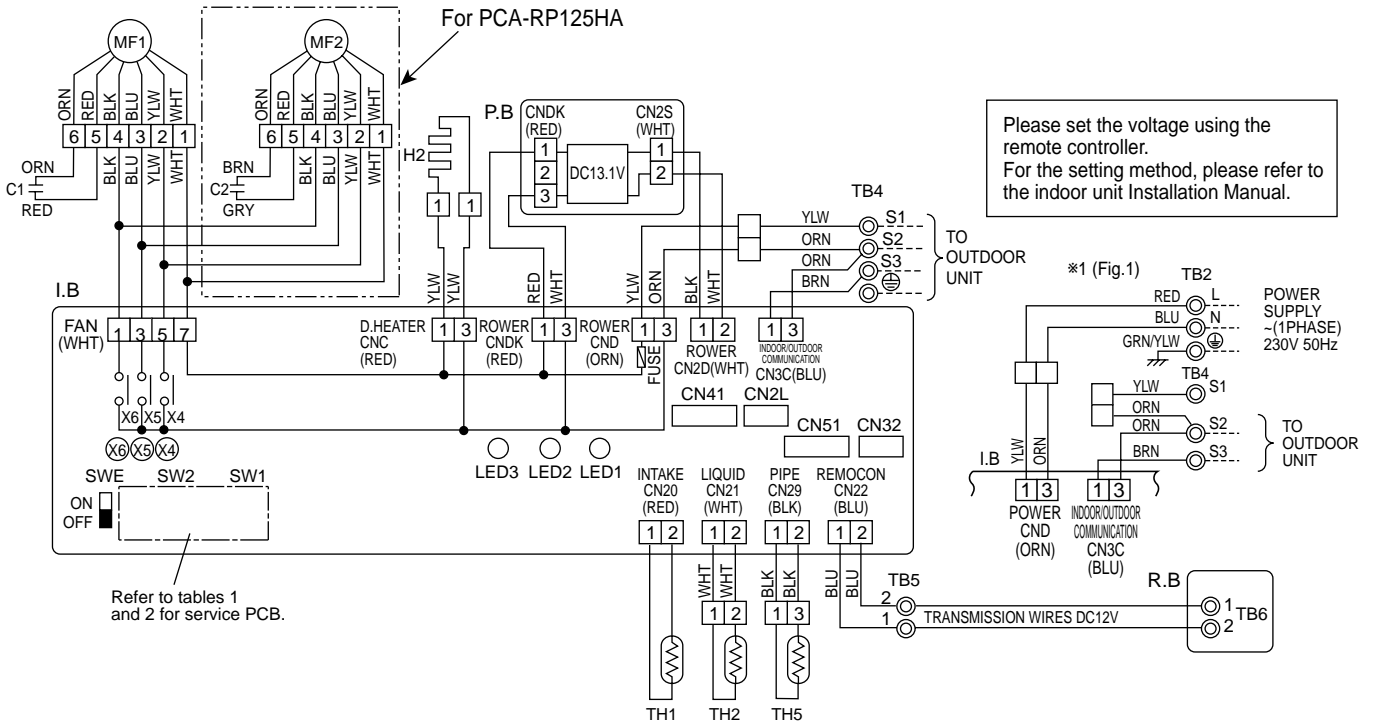
※2: For power supply system of this unit, refer to the caution label located near this diagram.



PCA-RP71HA PCA-RP125HA

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
P. B	INDOOR POWER BOARD	MF1, MF2	FAN MOTOR
I. B	INDOOR CONTROLLER BOARD	C1, C2	CAPACITOR(FAN MOTOR)
	FUSE	H2	DEW PREVENTION HEATER
	CN2L	TB2	TERMINAL BLOCK(INDOOR UNIT POWER (OPTION))
	CN32	TB4	TERMINAL BLOCK(INDOOR/OUTDOOR CONNECTING LINE)
	CN41	TB5, TB6	TERMINAL BLOCK(REMOTE CONTROLLER TRANSMISSION LINE)
	CN51	TH1	ROOM TEMP.THERMISTOR (0°C/15kΩ, 25°C/5.4kΩ DETECT)
	LED1	TH2	PIPE TEMP.THERMISTOR/LIQUID (0°C/15kΩ, 25°C/5.4kΩ DETECT)
	LED2	TH5	COND./ EVA.TEMP.THERMISTOR (0°C/15kΩ, 25°C/5.4kΩ DETECT)
	LED3	R. B	WIRED REMOTE CONTROLLER BOARD
	X1		
	X4		
	X5		
	X6		
	SW1		
	SW2		
	SWE		



Please set the voltage using the remote controller. For the setting method, please refer to the indoor unit Installation Manual.

Refer to tables 1 and 2 for service PCB.

Table 1

SW1				
Service board				
1	2	3	4	5
■	■	■	■	■
				ON
				OFF

Table 2

SW2				
MODELS		Service board		MODELS
PCA-RP71HA		PCA-RP125HA		
1	2	3	4	5
■	■	■	■	■
				ON
				OFF

The black square (■) indicates a switch position.

Notes:

- Symbols used in wiring diagram above are, □: Connector, ⊙: Terminal (block).
- Indoor and outdoor connecting wires have polarities, make sure to match terminal numbers (S1, S2, S3) for correct wirings.
- Since the outdoor side electric wiring may change, be sure to check the outdoor unit electric wiring diagram for servicing.
- This diagram shows the wiring of indoor and outdoor connecting wires (specification of 230V), adopting superimposed system for power and signal.
 - *1: When supplying power separately to indoor and outdoor units, refer to Fig 1.
 - *2: For power supply system of this unit, refer to the caution label located near this diagram.

PSA-RP71GA PSA-RP100GA PSA-RP125GA PSA-RP140GA

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
P.B	INDOOR POWER BOARD	I.B	INDOOR CONTROLLER BOARD	C	CAPACITOR (FAN MOTOR)
FUSE	FUSE (T6.3AL250V)	SW1	SWITCH (MODEL SELECTION)※ See Table 1.	MF	FAN MOTOR
CN2L	CONNECTOR (LOSSNAY)	SW2	SWITCH (CAPACITY CODE)※ See Table 2.	ML	LOUVER MOTOR
CN32	CONNECTOR (REMOTE SWITCH)	SWE	SWITCH (EMERGENCY OPERATION)	TB2	TERMINAL BLOCK (HEATER) ※PSH-P-GAH models only or option for PSA-RP-GA models.
CN41	CONNECTOR (HA TERMINAL-A)	X2	RELAY (LOUVER)	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)
CN51	CONNECTOR (CENTRALLY CONTROL)	X4	RELAY (FAN MOTOR)	TH1	ROOM TEMP.THERMISTOR (0°C/15kΩ, 25°C/5.4kΩ DETECT)
LED1	POWER SUPPLY (I.B)	X5	RELAY (FAN MOTOR)	TH2	PIPE TEMP.THERMISTOR/LIQUID (0°C/15kΩ, 25°C/5.4kΩ DETECT)
LED2	POWER SUPPLY (R.B)	X6	RELAY (FAN MOTOR)	TH5	COND./EVA.TEMP.THERMISTOR (0°C/15kΩ, 25°C/5.4kΩ DETECT)
LED3	TRANSMISSION (INDOOR-OUTDOOR)	R.B	WIRED REMOTE CONTROLLER BOARD		
		TB6	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)		
		HEATER			
		FS1,2	THERMAL FUSE (110°C/16A)		
		H	HEATER		
		26H	HEATER THERMAL SWITCH		
		88H	HEATER CONTACTOR		

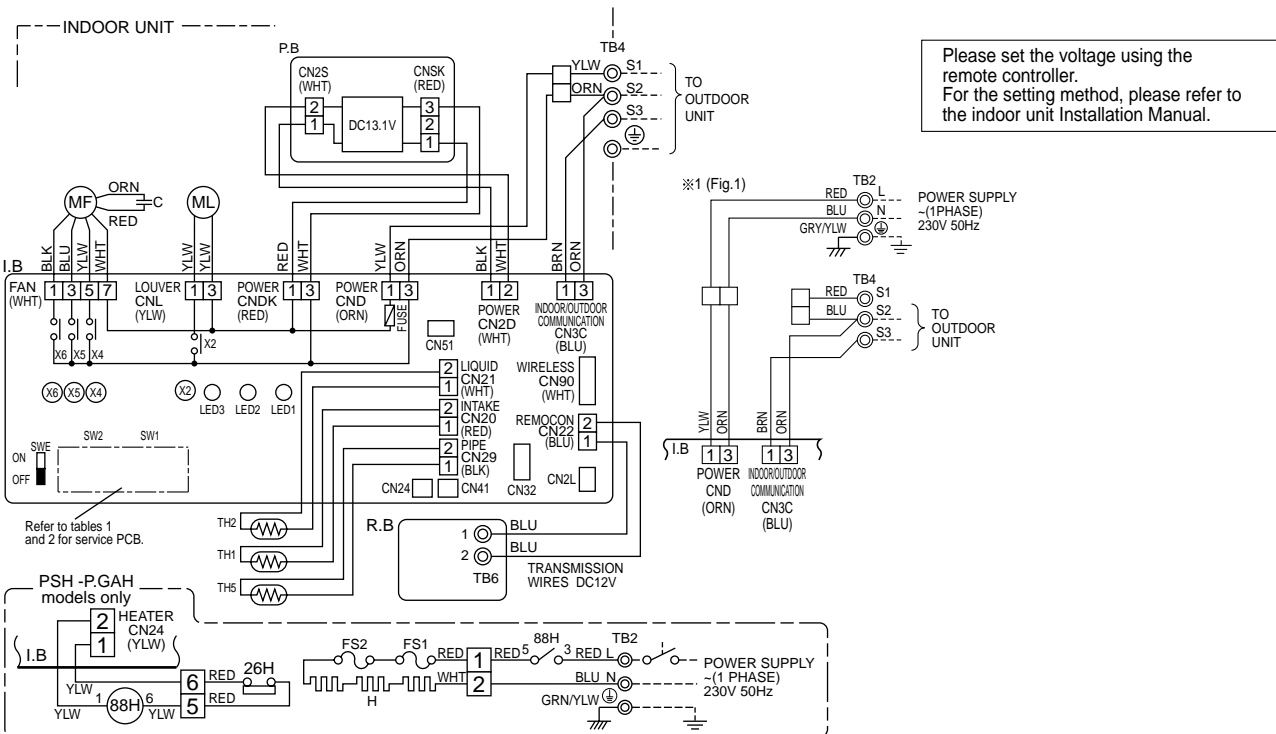


Table 1

MODELS	Service board												
PSA-RP.GA PSH-P.GAH	<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>ON</td> </tr> <tr> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>OFF</td> </tr> </table>	1	2	3	4	5	ON	■	■	■	■	■	OFF
1	2	3	4	5	ON								
■	■	■	■	■	OFF								

- Notes:
- Symbols used in wiring diagram above are, □□□: Connector, ⊙: Terminal (block).
 - Indoor and outdoor connecting wires have polarities, make sure to match terminal numbers (S1, S2, S3) for correct wirings.
 - Since the outdoor side electric wiring may change, be sure to check the outdoor unit electric wiring diagram for servicing.
 - This diagram shows the wiring of indoor and outdoor connecting wires (specification of 230V), adopting superimposed system for power and signal.
 - ※1: When supplying power separately to indoor and outdoor units, refer to Fig 1.
 - ※2: For power supply system of this unit, refer to the caution label located near this diagram.

Table 2

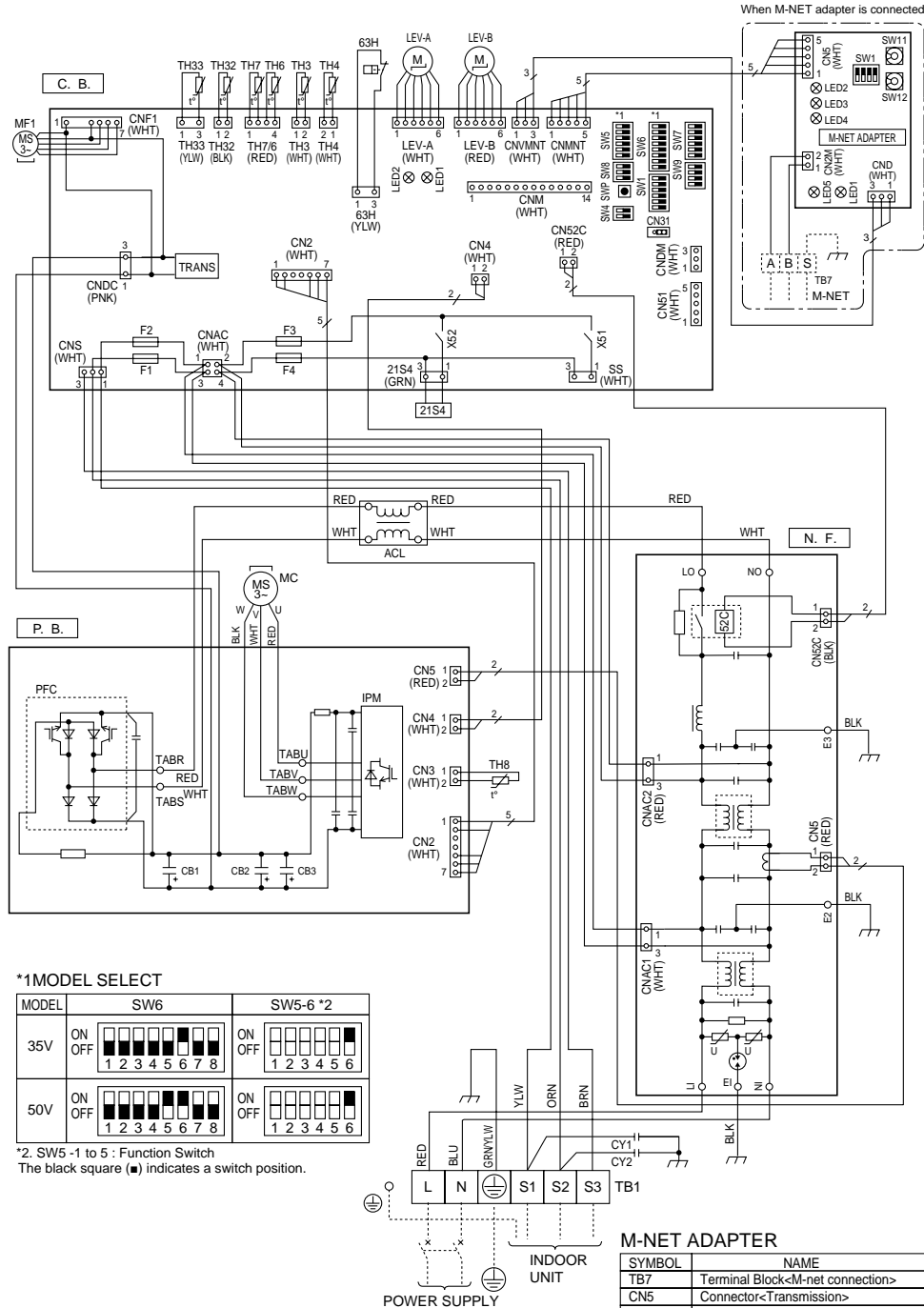
MODELS	Service board												
PSA-RP71GA PSH-P71GAH	<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>ON</td> </tr> <tr> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>OFF</td> </tr> </table>	1	2	3	4	5	ON	■	■	■	■	■	OFF
1	2	3	4	5	ON								
■	■	■	■	■	OFF								
PSA-RP100GA PSH-P100GAH	<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>ON</td> </tr> <tr> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>OFF</td> </tr> </table>	1	2	3	4	5	ON	■	■	■	■	■	OFF
1	2	3	4	5	ON								
■	■	■	■	■	OFF								
PSA-RP125GA PSH-P125GAH	<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>ON</td> </tr> <tr> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>OFF</td> </tr> </table>	1	2	3	4	5	ON	■	■	■	■	■	OFF
1	2	3	4	5	ON								
■	■	■	■	■	OFF								
PSA-RP140GA PSH-P140GAH	<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>ON</td> </tr> <tr> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>■</td> <td>OFF</td> </tr> </table>	1	2	3	4	5	ON	■	■	■	■	■	OFF
1	2	3	4	5	ON								
■	■	■	■	■	OFF								

The black square (■) indicates a switch position.

4-2. OUTDOOR UNIT

PUHZ-RP35VHA4 PUHZ-RP50VHA4

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block<Power Supply, Indoor/Outdoor>	IPM	Power Module	LED1,LED2	LED
MC	Motor for Compressor	PFC	Converter		<Operation Inspection Indicators>
MF1	Fan Motor	CB1-CB3	Main Smoothing Capacitor	F1-4	Fuse<T6.3AL250V>
21S4	Solenoid Valve (Four-Way Valve)	N.F.	Noise Filter Circuit Board	SWP	Switch<Pump Down>
63H	High Pressure Switch	LI/LO	Connection Terminal<L-Phase>	CN31	Connector<Emergency Operation>
TH3, TH33	Thermistor<Outdoor Pipe>	NI/NO	Connection Terminal<N-Phase>	CN51	Connector<Connection for Option>
TH4	Thermistor<Discharge>	E1,E2,E3	Connection Terminal<Ground>	SS	Connector<Connection for Option>
TH6	Thermistor<Outdoor 2-Phase Pipe>	52C	52C Relay	CNM	Connector<A-Control Service Inspection Kit>
TH7	Thermistor<Outdoor>	C.B.	Controller Circuit Board	CNMNT	Connector
TH8	Thermistor<Heat Sink>	SW1	Switch<Forced Defrost, Defect History		<Connected to Optional M-NET Adapter Board>
TH32	Thermistor<Shell>		Record Reset, Refrigerant Address>	CNMNT	Connector
LEV-A, LEV-B	Electronic Expansion Valve	SW4	Switch<Test Operation>		<Connected to Optional M-NET Adapter Board>
ACL	Reactor	SW5	Switch<Function Switch>	CNDM	Connector
CY1,CY2	Reactor	SW6	Switch<Model Select>		< Connected for Option (Contact Input)>
P.B.	Power Circuit Board	SW7	Switch<Function Setup>	X51,X52	Relay
TABR/S	Connection Terminal<L/N-Phase>	SW8	Switch<Function Setup>		
TABU/V/W	Connection Terminal<U/V/W-Phase>	SW9	Switch		



*1MODEL SELECT

MODEL	SW6	SW5-6 *2
35V	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6
50V	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6

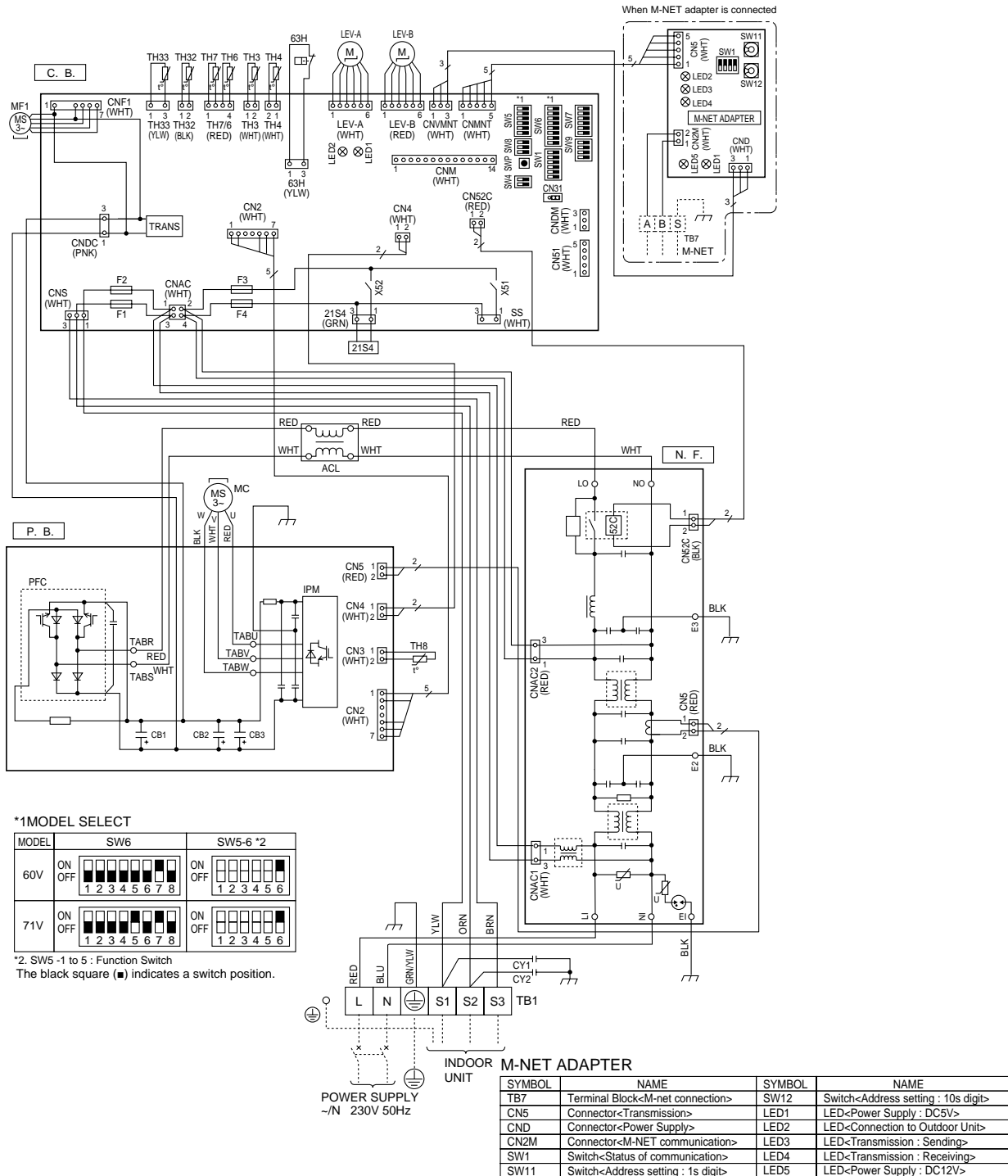
*2. SW5-1 to 5 : Function Switch
The black square (■) indicates a switch position.

M-NET ADAPTER

SYMBOL	NAME	SYMBOL	NAME
TB7	Terminal Block<M-net connection>	SW12	Switch<Address setting : 10s digit>
CN5	Connector<Transmission>	LED1	LED<Power Supply : DC5V>
CND	Connector<Power Supply>	LED2	LED<Connection to Outdoor Unit>
CN2M	Connector<M-NET communication>	LED3	LED<Transmission : Sending>
SW1	Switch<Status of communication>	LED4	LED<Transmission : Receiving>
SW11	Switch<Address setting : 1s digit>	LED5	LED<Power Supply : DC12V>

PUHZ-RP60VHA4 PUHZ-RP71VHA4

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block<Power Supply, Indoor/Outdoor>	PFC	Converter	F1-4	Fuse<T6.3AL250V>
MC	Motor for Compressor	CB1-CB3	Main Smoothing Capacitor	SWP	Switch<Pump Down>
MF1	Fan Motor	N.F.	Noise Filter Circuit Board	CN31	Connector<Emergency Operation>
21S4	Solenoid Valve (Four-Way Valve)	L/L/O	Connection Terminal<L-Phase>	CN51	Connector<Connection for Option>
63H	High Pressure Switch	N/I/O	Connection Terminal<N-Phase>	SS	Connector<Connection for Option>
TH3, TH33	Thermistor<Outdoor Pipe>	E1,E2,E3	Connection Terminal<Ground>	CNM	Connector<A-Control Service Inspection Kit>
TH4	Thermistor<Discharge>	52C	52C Relay	CNMNT	Connector <Connected to Optional M-NET Adapter Board>
TH6	Thermistor<Outdoor 2-Phase Pipe>	C.B.	Controller Circuit Board	CNMVMT	Connector <Connected to Optional M-NET Adapter Board>
TH7	Thermistor<Outdoor>	SW1	Switch<Forced Defrost, Defect History Record Reset, Refrigerant Address>	CNDM	Connector < Connected for Option (Contact Input)>
TH8	Thermistor<Heat Sink>	SW4	Switch<Test Operation>	X51,X52	Relay
TH32	Thermistor<Shell>	SW5	Switch<Function Switch>		
LEV-A, LEV-B	Electronic Expansion Valve	SW6	Switch<Model Select>		
ACL	Reactor	SW7	Switch<Function Setup>		
CY1,CY2	Reactor	SW8	Switch<Function Setup>		
P.B.	Power Circuit Board	SW9	Switch		
TABR/S	Connection Terminal<L/N-Phase>	LED1,LED2	LED <Operation Inspection Indicators>		
TABU/V/W	Connection Terminal<U/V/W-Phase>				
IPM	Power Module				



*1MODEL SELECT

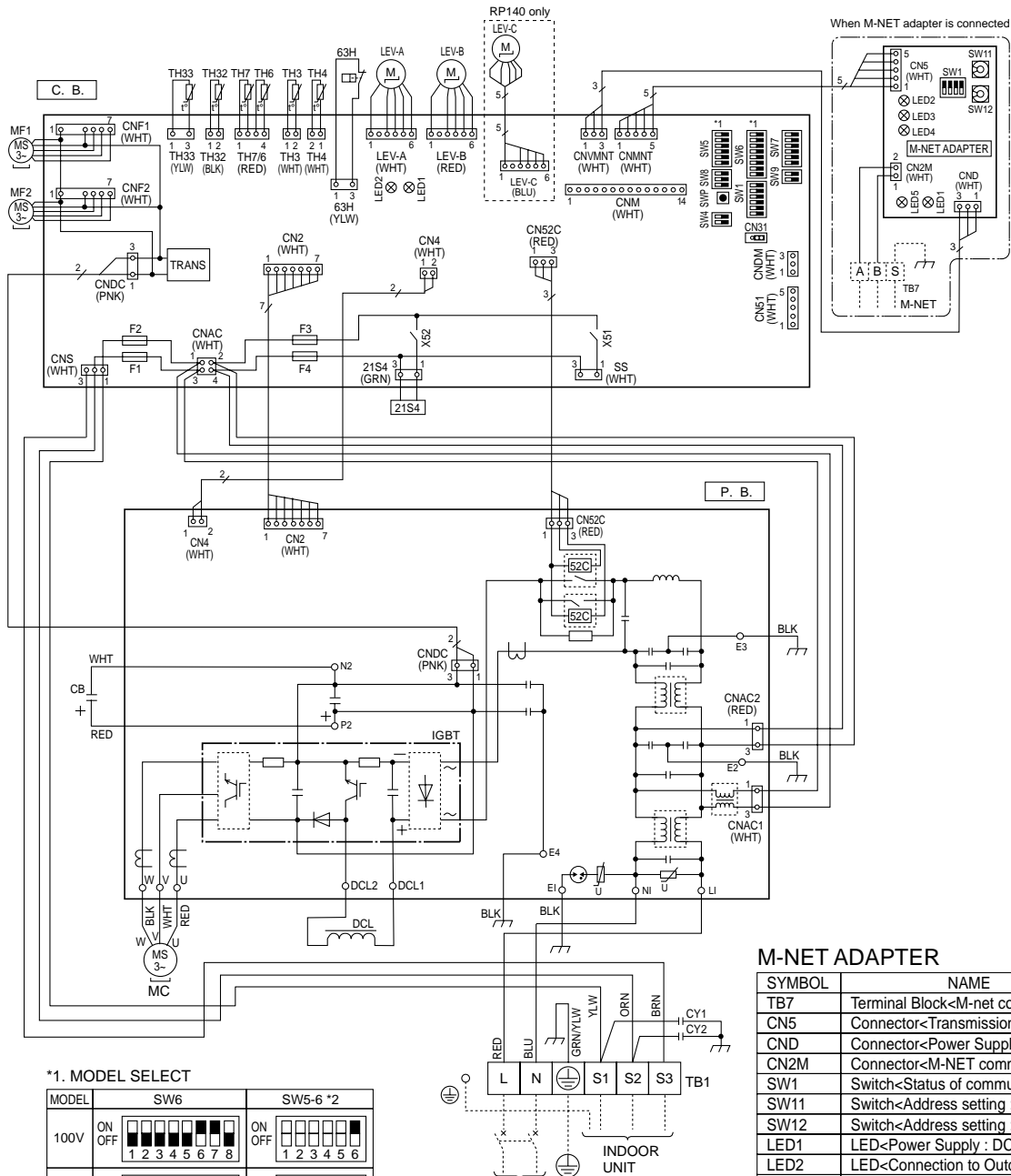
MODEL	SW6	SW5-6 *2
60V	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6
71V	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6

*2. SW5-1 to 5 : Function Switch
The black square (■) indicates a switch position.

SYMBOL	NAME	SYMBOL	NAME
TB7	Terminal Block<M-net connection>	SW12	Switch<Address setting : 10s digit>
CN5	Connector<Transmission>	LED1	LED<Power Supply : DC5V>
CND	Connector<Power Supply>	LED2	LED<Connection to Outdoor Unit>
CN2M	Connector<M-NET communication>	LED3	LED<Transmission : Sending>
SW1	Switch<Status of communication>	LED4	LED<Transmission : Receiving>
SW11	Switch<Address setting : 1s digit>	LED5	LED<Power Supply : DC12V>

PUHZ-RP100VKA PUAZ-RP125VKA PUAZ-RP140VKA

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block<Power Supply, Indoor/Outdoor >	LI	Connection Terminal<L-Phase>	SWP	Switch<Pump Down>
MC	Motor for Compressor	NI	Connection Terminal<N-Phase>	CN31	Connector<Emergency Operation>
MF1, MF2	Fan Motor	P2	Connection Terminal	CN51	Connector<Connection for Option>
21S4	Solenoid Valve (Four-Way Valve)	N2	Connection Terminal	SS	Connector<Connection for Option>
63H	High Pressure Switch	DCL1, DCL2	Connection Terminal<Reactor>	CNM	Connector<A-Control Service Inspection Kit>
TH3, TH33	Thermistor<Outdoor Pipe>	IGBT	Power Module	CNMNT	Connector <Connected to Optional M-NET Adapter Board>
TH4	Thermistor<Discharge>	E1, E2, E3, E4	Connection Terminal<Ground>	CNVMNT	Connector <Connected to Optional M-NET Adapter Board>
TH6	Thermistor<Outdoor 2-Phase Pipe>	C. B.	Controller Circuit Board	CNDM	Connector < Connected for Option (Contact Input)>
TH7	Thermistor<Outdoor>	SW1	Switch<Forced Defrost, Defect History Record Reset, Refrigerant Address>	LED1, LED2	LED<Operation Inspection Indicators>
TH32	Thermistor<Shell>	SW4	Switch<Test Operation>	F1-F4	Fuse< T6.3AL250V>
LEVA, LEVB, LEVC	Electronic Expansion Valve	SW5	Switch<Function Switch>	X51, X52	Relay
DCL	Reactor	SW6	Switch<Function Switch>		
CB	Main Smoothing Capacitor	SW7	Switch<Function Setup>		
CY1, CY2	Capacitor	SW8	Switch<Function Setup>		
P.B.	Power Circuit Board	SW9	Switch<Function Setup>		
U/W	Connection Terminal<U/V/W-Phase>	SW8	Switch		



*1. MODEL SELECT

MODEL	SW6	SW5-6 *2
100V	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6
125V	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6
140V	ON OFF 1 2 3 4 5 6 7 8	ON OFF 1 2 3 4 5 6

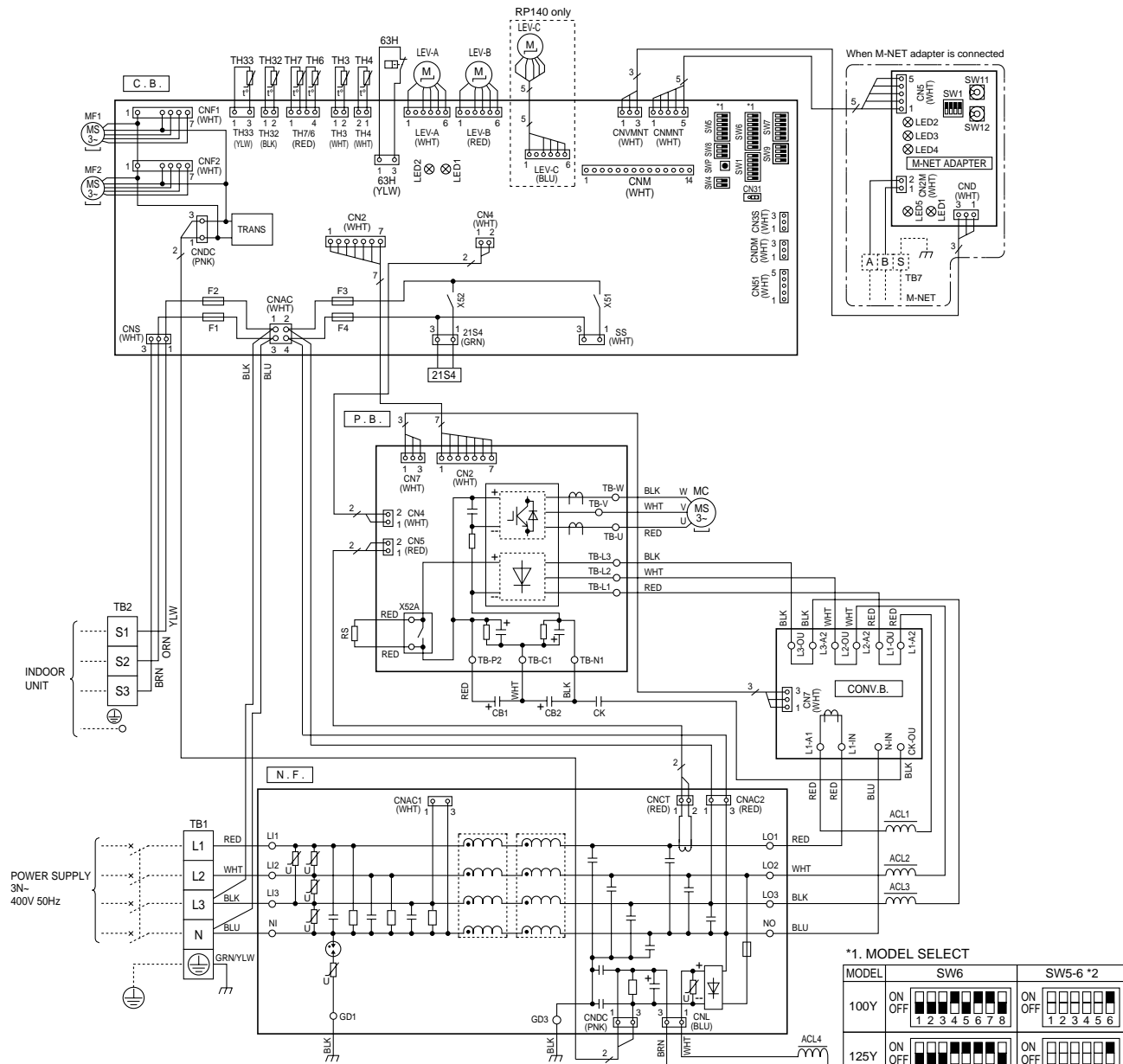
*2. SW5 -1 to 5 : Function Switch
The black square (■) indicates a switch position.

M-NET ADAPTER

SYMBOL	NAME
TB7	Terminal Block<M-net connection>
CN5	Connector<Transmission>
CND	Connector<Power Supply>
CN2M	Connector<M-NET communication>
SW1	Switch<Status of communication>
SW11	Switch<Address setting : 1s digit>
SW12	Switch<Address setting : 10s digit>
LED1	LED<Power Supply : DC5V>
LED2	LED<Connection to Outdoor Unit>
LED3	LED<Transmission : Sending>
LED4	LED<Transmission : Recelving>
LED5	LED<Power Supply : DC12V>

PUHZ-RP100YKA PUHZ-RP125YKA PUHZ-RP140YKA

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block<Power Supply >	TB-P2	Connection Terminal	SW5	Switch<Function Switch>
TB2	Terminal Block<Indoor/Outdoor >	TB-C1	Connection Terminal	SW6	Switch<Model Select>
MC	Motor for Compressor	TB-N1	Connection Terminal	SW7	Switch<Function Setup>
MF1, MF2	Fan Motor	X52A	52C Relay	SW8	Switch<Function Setup>
21S4	Solenoid Valve (Four-Way Valve)	N.F.	Noise Filter Circuit Board	SW9	Switch
63H	High Pressure Switch	L1/L2/L3/N1	Connection Terminal<L1/L2/L3/N-Power Supply>	SWP	Switch<Pump Down>
TH3, TH33	Thermistor<Outdoor Pipe>	L01/L02/L03/N0	Connection Terminal<L1/L2/L3/N-Power Supply>	CN31	Connector<Emergency Operation>
TH4	Thermistor<Discharge>	GD1, GD3	Connection Terminal<Ground>	LED1 LED2	LED<Operation Inspection Indicators>
TH6	Thermistor<Outdoor 2-Phase Pipe>	CONV.B.	Converter Circuit Board	F1~F4	FUSE<T6.3AL250V>
TH7	Thermistor<Outdoor>	L1-A1/N	Connection Terminal<L1-Power Supply>	CNM	Connector<A-Control Service Inspection Kit>
TH32	Thermistor<Shell>	L1-A2/OU	Connection Terminal<L1-Power Supply>	CNMNT	Connector
LEV-A/LEV-B/LEV-C	Electronic Expansion Valve	L2-A2/OU	Connection Terminal<L2-Power Supply>		<Connect to Optional M-NET Adapter Board>
ACL1~ACL4	Reactor	L3-A2/OU	Connection Terminal<L3-Power Supply>	CNMVMT	Connector
CB1, CB2	Main Smoothing Capacitor	N-IN	Connection Terminal		<Connect to Optional M-NET Adapter Board>
CK	Capacitor	CK-OU	Connection Terminal	CNDM	Connector
RS	Rush Current Protect Resistor	C.B.	Controller Circuit Board		< Connection for Option(Contact Input)>
P.B.	Power Circuit Board	SW1	Switch<Forced Defrost, Defect History Record Reset, Refrigerant Address>	CN3S	Connector< Connection for Option>
TB-U/V/W	Connection Terminal<U/V/W-Phase>	SW4	Switch<Test Operation>	CN51	Connector< Connection for Option>
TB-L1/L2/L3	Connection Terminal<L1/L2/L3-Power Supply>			X51,X52	Relay



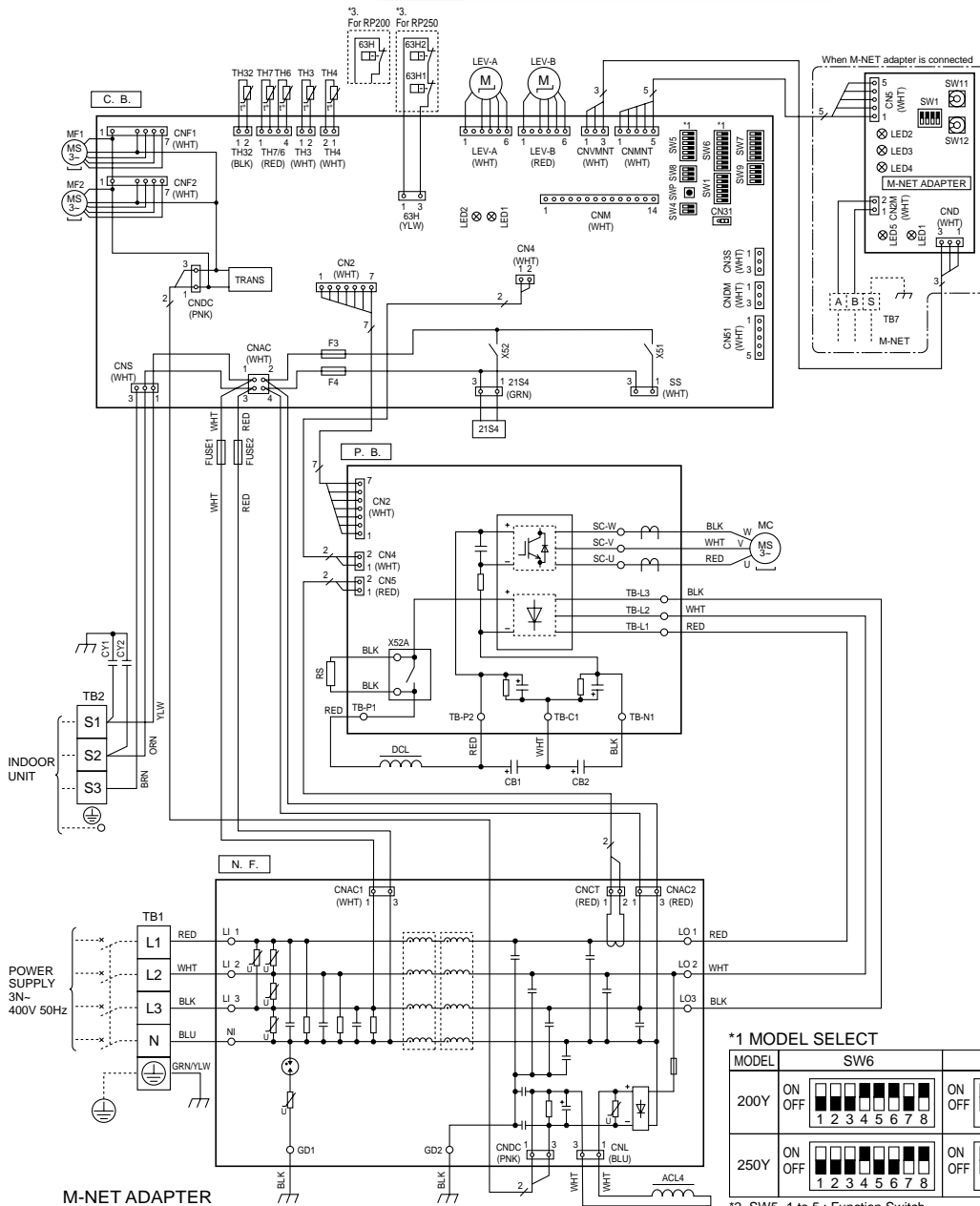
TB7	Terminal Block<M-NET connection >	SW12	Switch<Address setting, 10s digit >
CN5	Connector<Transmission>	LED1	LED<Power Supply: DC5V>
CND	Connector<Power Supply>	LED2	LED<Connection to Outdoor Unit>
CN2M	Connector<M-NET communication>	LED3	LED<Transmission: Sending>
SW1	Switch<Status of communication>	LED4	LED<Transmission: Receiving>
SW11	Switch<Address setting: 1s digit>	LED5	LED<Power Supply: DC12V>

MODEL	SW6	SW5-6 *2
100Y	ON OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	ON OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
125Y	ON OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	ON OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
140Y	ON OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	ON OFF <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

*2. SW5 -1 to 5 : Function Switch
The black square (■) indicates a switch position.

PUHZ-RP200YKA PUHZ-RP250YKA

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block<Power Supply>	P.B.	Power Circuit Board	SW7	Switch<Function Setup>
TB2	Terminal Block<Indoor/Outdoor>	SC-U/V/W	Connection Terminal<U/V/W-Phase>	SW8	Switch<Function Setup>
MC	Motor for Compressor	TB-L1/L2/L3	Connection Terminal<L1/L2/L3-Power supply>	SW9	Switch
MF1, MF2	Fan Motor	TB-P1	Connection Terminal	SWP	Switch<Pump Downs>
21S4	Solenoid Valve (Four-Way Valve)	TB-P2	Connection Terminal	CN31	Connector<Emergency Operation>
63H, 63H1, 63H2	High Pressure Switch	TB-C1	Connection Terminal	LED1, LED2	LED<Operation Inspection Indicators>
TH3	Thermistor<Outdoor Pipe>	TB-N1	Connection Terminal	F3, F4	Fuse<T6.3AL250V>
TH4	Thermistor<Discharge>	X52A	52C Relay	SS	Connector<Connection for Option>
TH6	Thermistor<Outdoor 2-Phase Pipe>	N.F.	Noise Filter Circuit Board	CNM	Connector<A-Control Service Inspection Kit>
TH7	Thermistor<Outdoor>	LI1/ LI2/LI3/NI	Connection Terminal<L1/L2/L3/NI-Power supply>	CNMNT	Connector<Connected to Optional M-NET Adapter Board>
TH32	Thermistor<Shell>	LO1/ LO2/LO3	Connection Terminal<L1/L2/L3-Power supply>	CNVMT	Connector<Connected to Optional M-NET Adapter Board>
LEV-A, LEV-B	Electronic Expansion Valve	GD1, GD2	Connection Terminal<Ground>	CNDM	Connector< Connected for Option (Contact Input)>
ACL4	Reactor	C.B.	Controller Circuit Board	CN3S	Connector<Connection for Option>
DCL	Reactor	SW1	Switch<Forced Defrost, Defect History Record Reset, Refrigerant Address>	CN51	Connector<Connection for Option>
CB1, CB2	Main Smoothing Capacitor	SW4	Switch<Test Operation>	X51, X52	Relay
RS	Rush Current Protect Resistor	SW5	Switch<Function Switch>		
FUSE1, FUSE2	Fuse<T15AL250V>	SW6	Switch<Model Select>		
CY1, CY2	Capacitor				



M-NET ADAPTER

SYMBOL	NAME
TB7	Terminal Block<M-NET connection>
CN5	Connector<Transmission>
CND	Connector<Power Supply>
CN2M	Connector<M-NET communication>
SW1	Switch<Status of communication>
SW11	Switch<Address setting: 1s digit>
SW12	Switch<Address setting: 10s digit>
LED1	LED<Power Supply:DC5V>
LED2	LED<Connection to Outdoor Unit>
LED3	LED<Transmission:Sending>
LED4	LED<Transmission:Receiving>
LED5	LED<Power Supply:DC12V>

***1 MODEL SELECT**

MODEL	SW6	SW5-6 *2
200Y	ON	ON
	OFF	OFF
250Y	ON	ON
	OFF	OFF

*2. SW5 -1 to 5 : Function Switch
The black square (■) indicates a switch position.

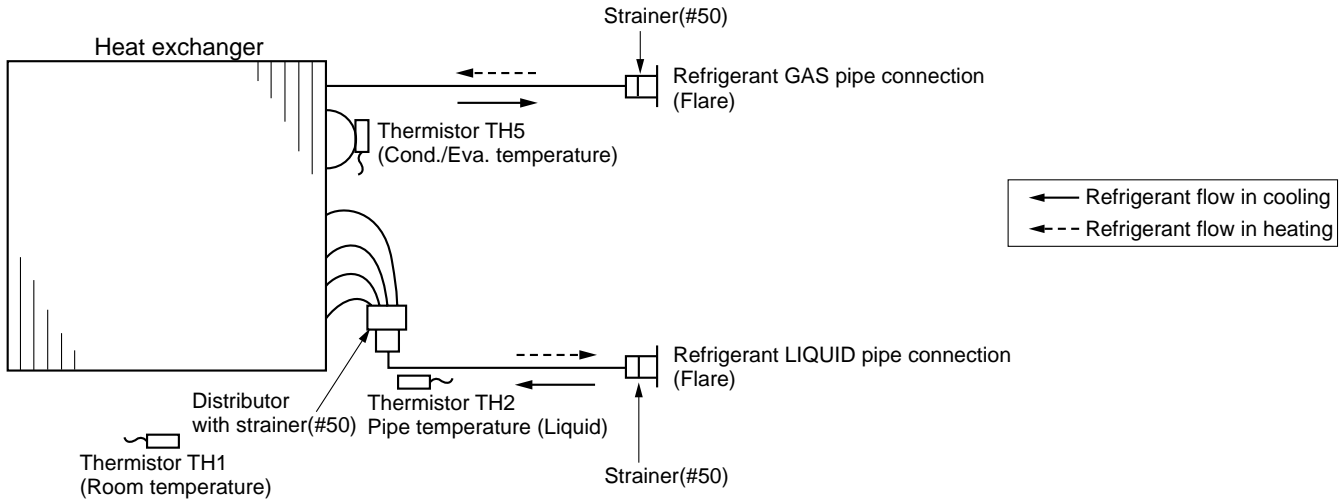
5-1. INDOOR UNIT

PLA-RP-BA/BA2/BA3 PEAD-RP-JA(L)

PCA-RP-KA

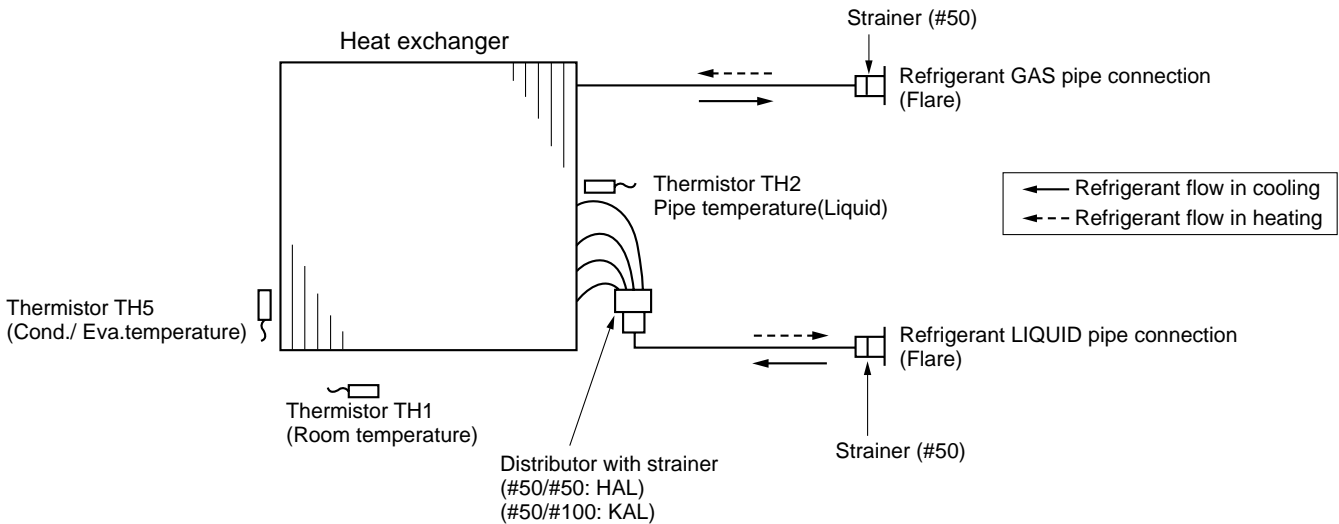
PCA-RP-HA

PSA-RP-GA

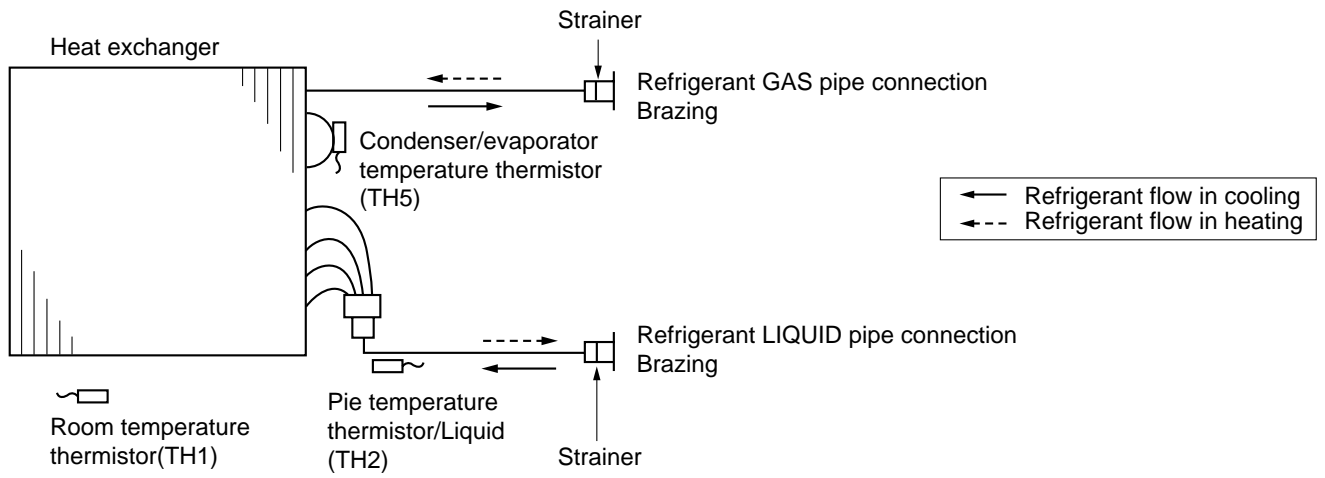


PKA-RP-HAL

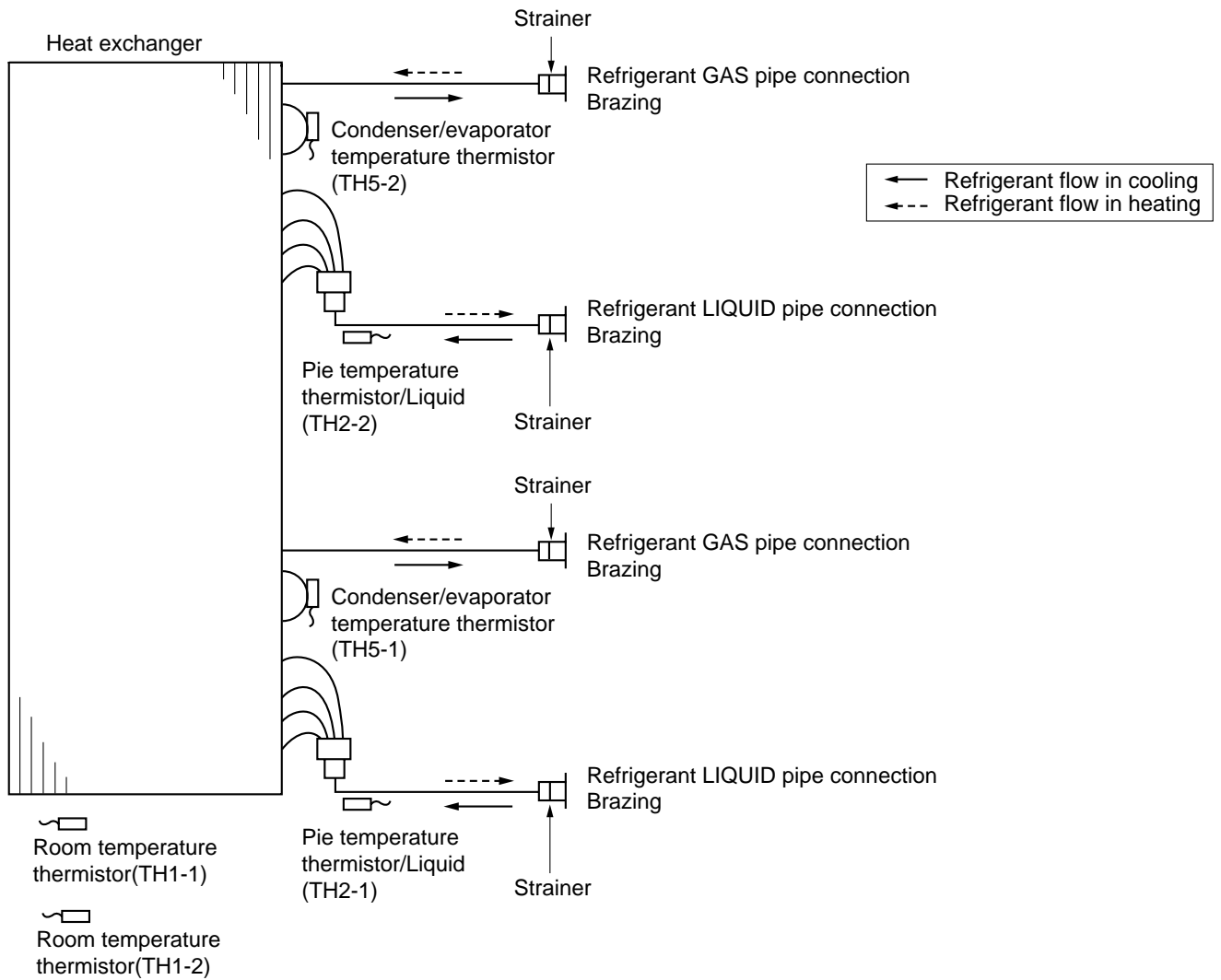
PKA-RP-KAL



PEA-RP200, 250GA

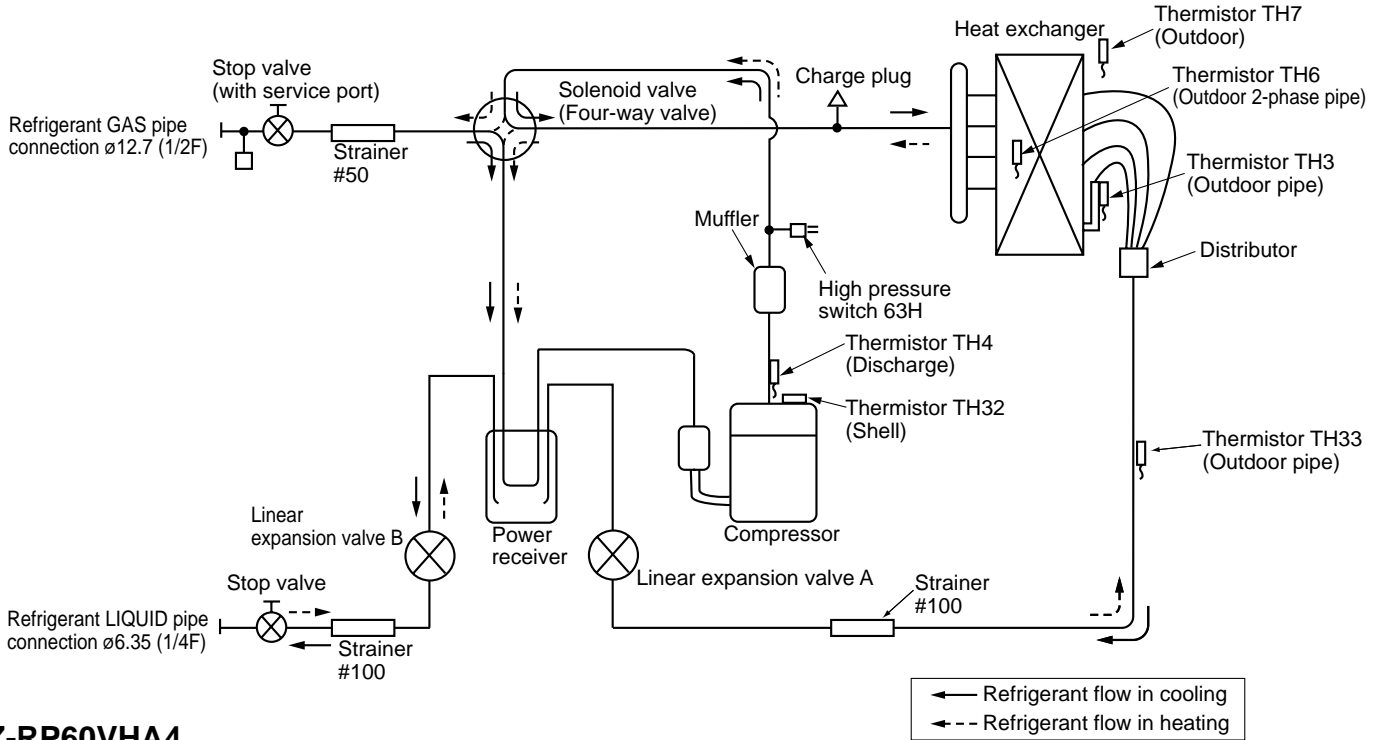


PEA-RP400GA PEA-RP500GA

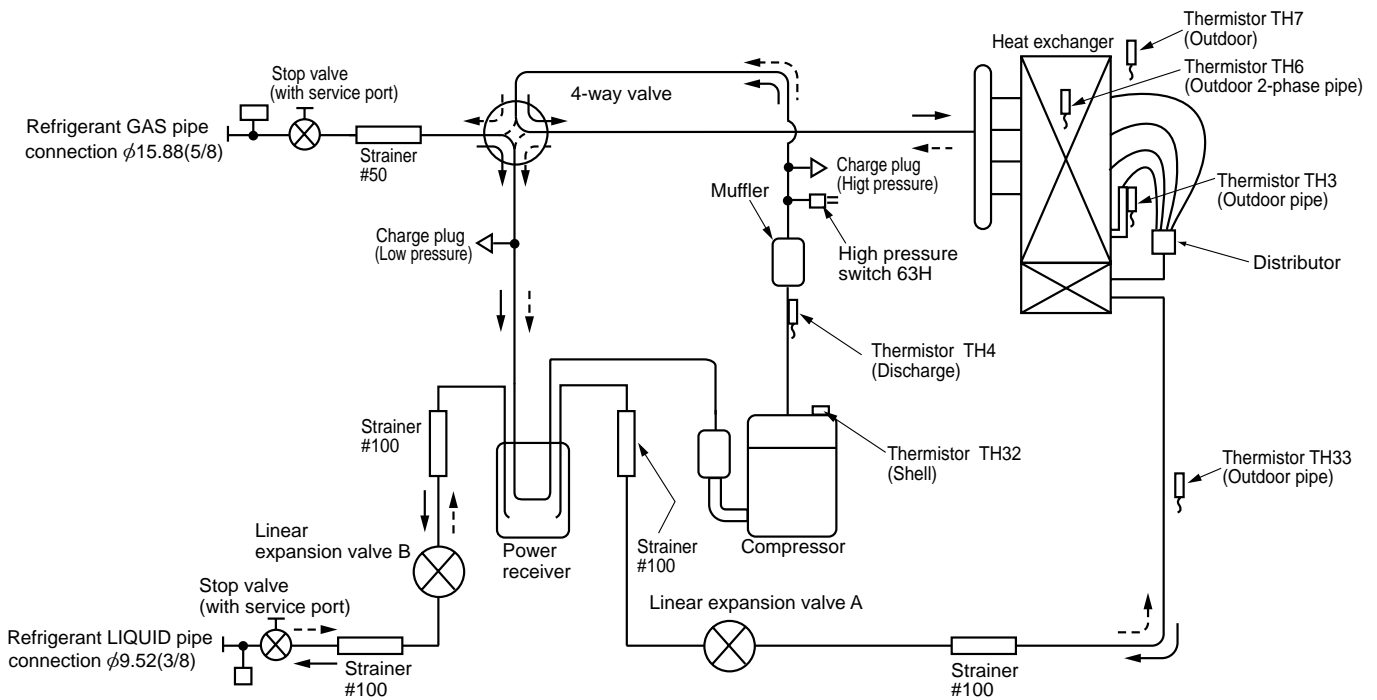


5-2. OUTDOOR UNIT
PUHZ-RP35VHA4
PUHZ-RP50VHA4

unit: mm(inch)



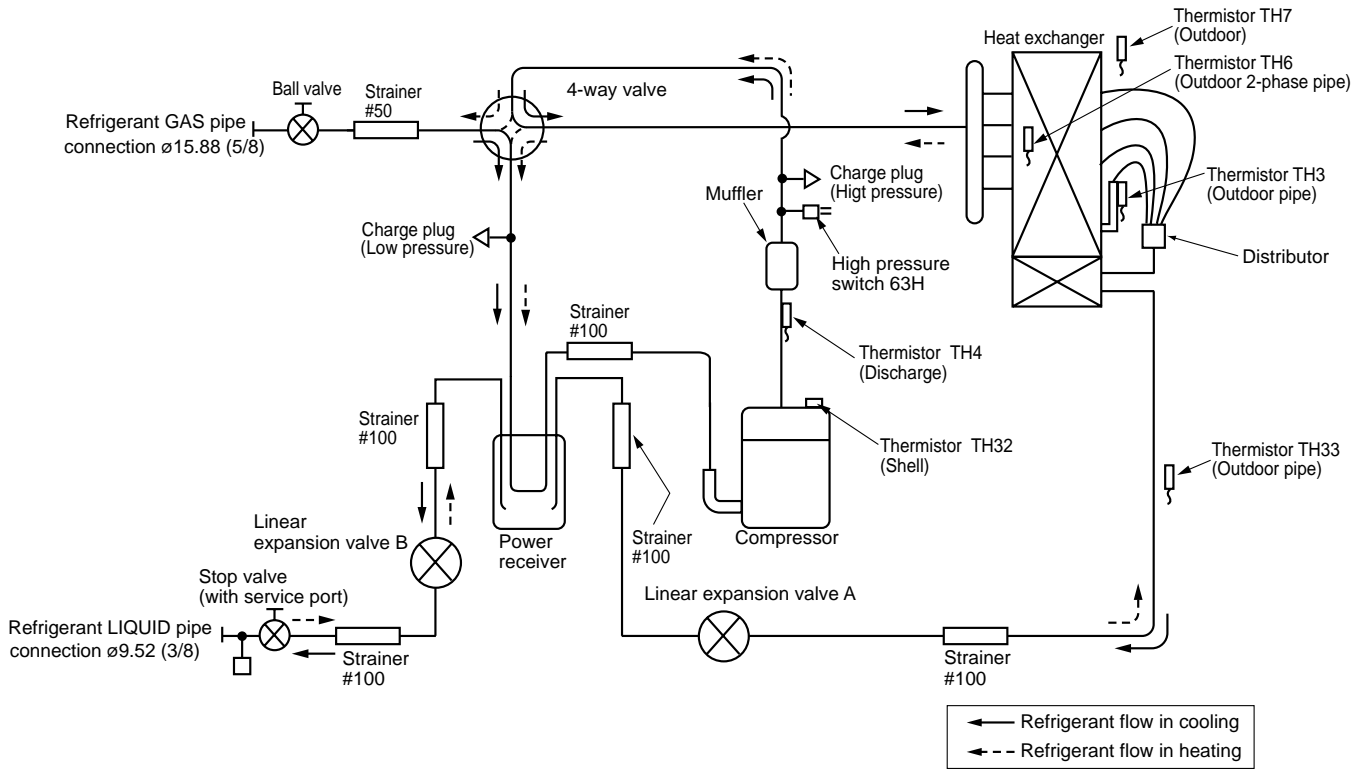
PUHZ-RP60VHA4
PUHZ-RP71VHA4



PUHZ-RP100VKA
PUHZ-RP100YKA

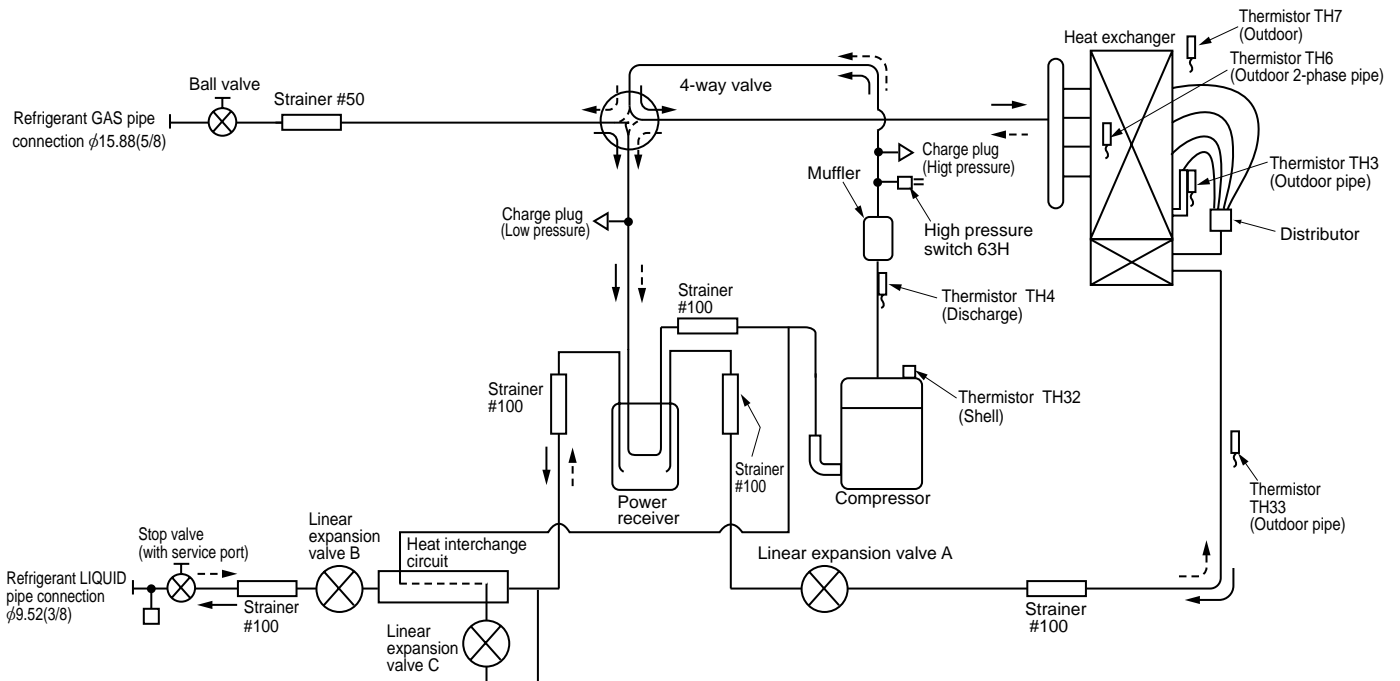
PUHZ-RP125VKA
PUHZ-RP125YKA

unit: mm(inch)



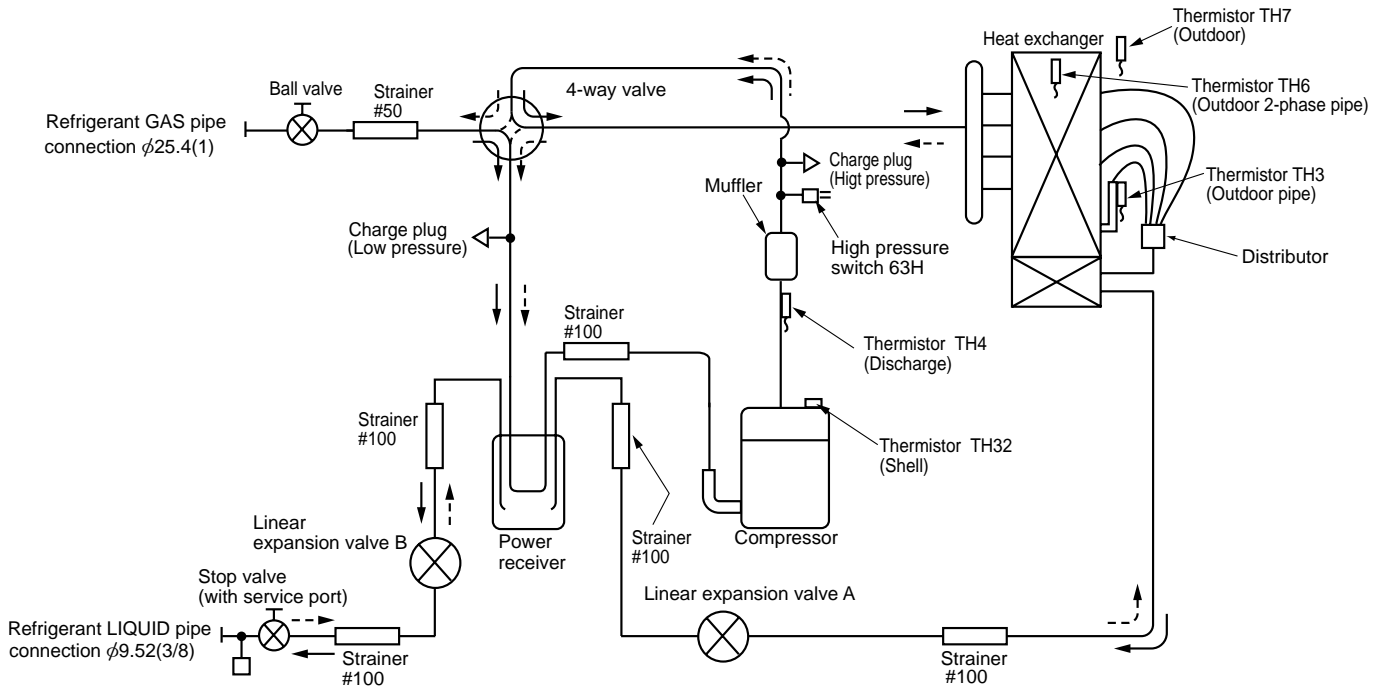
PUHZ-RP140VKA

PUHZ-RP140YKA

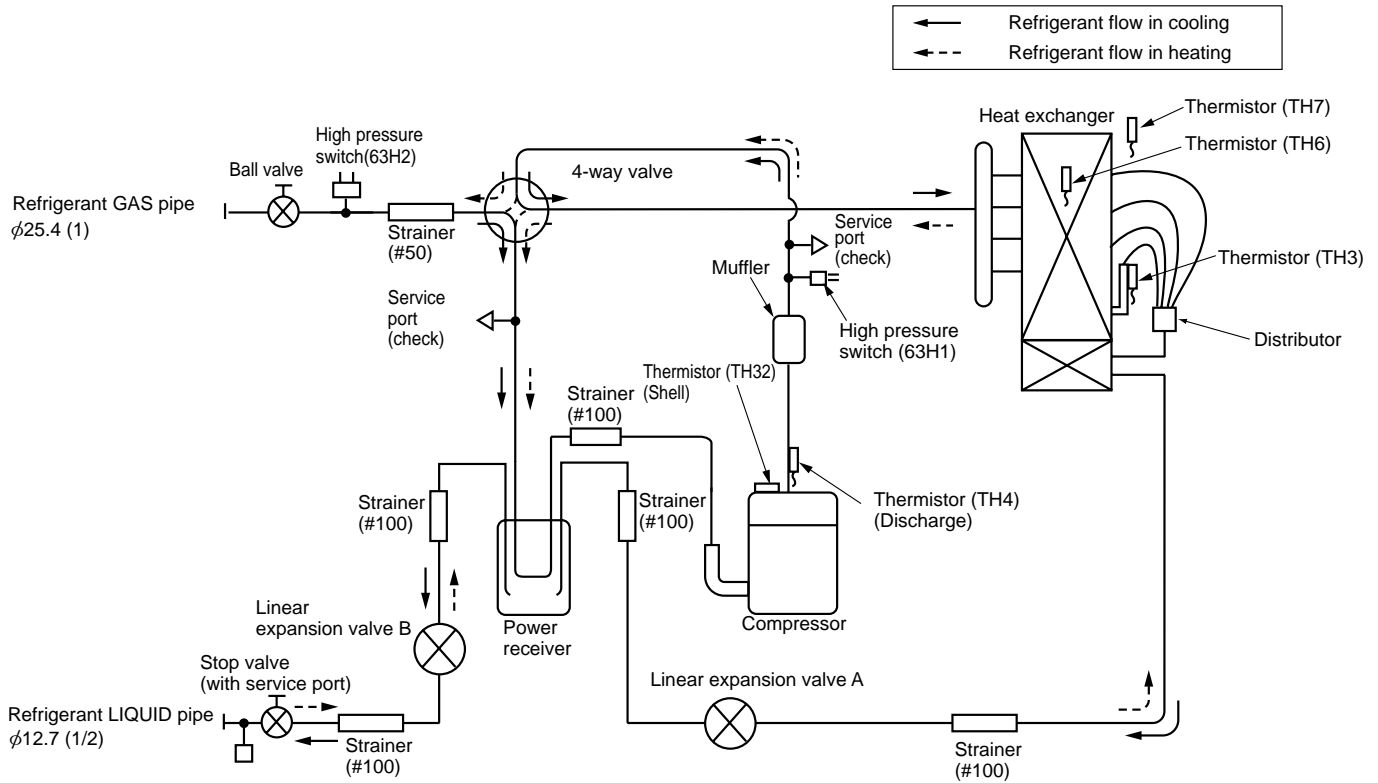


PUHZ-RP200YKA

unit: mm(inch)



PUHZ-RP250YKA

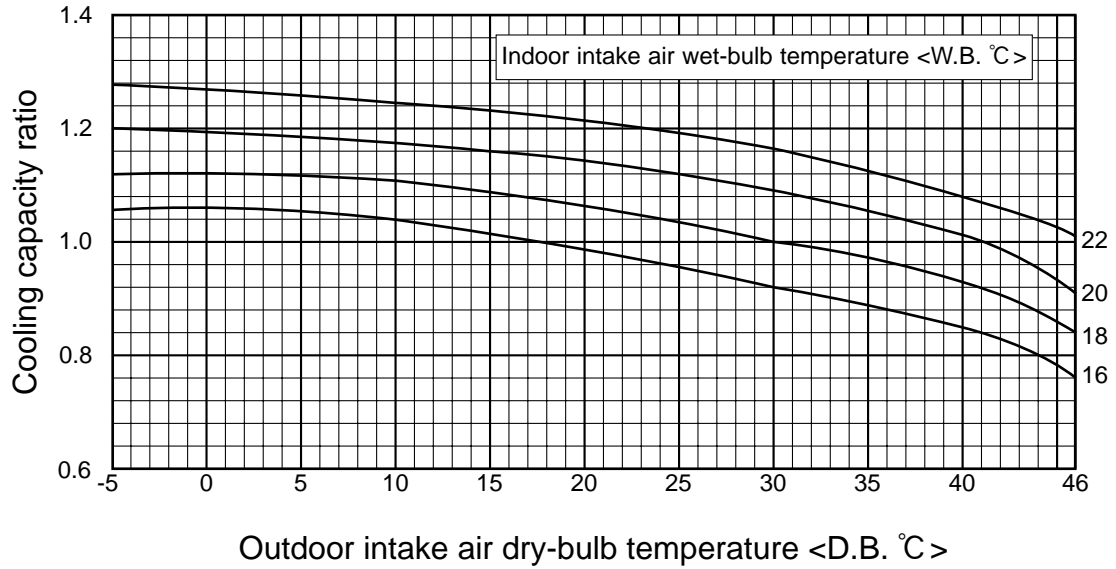


6

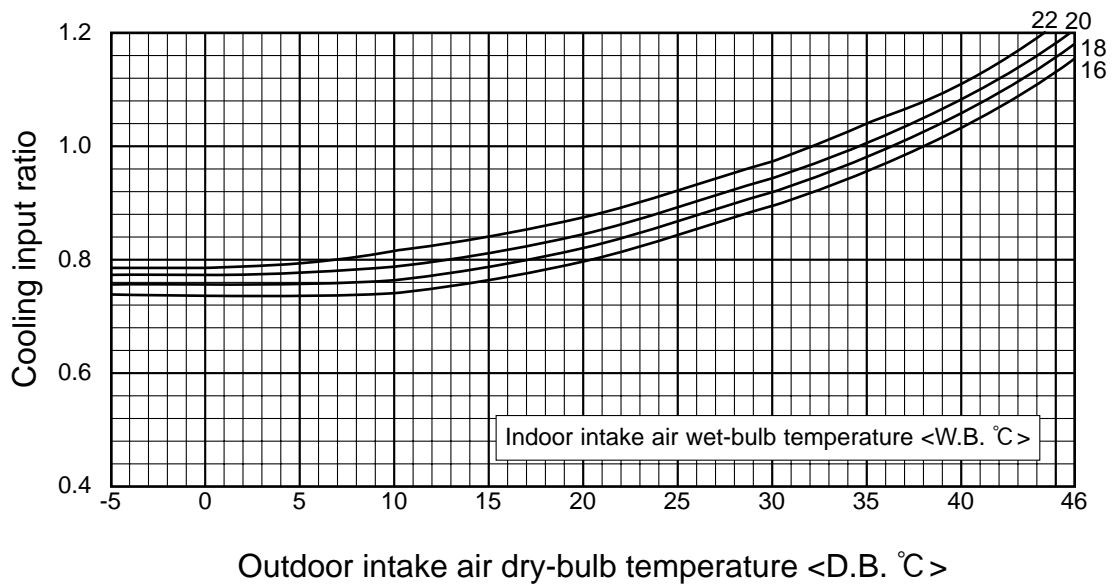
PERFORMANCE CURVES

FOR THE COMBINATION OF OUTDOOR UNIT

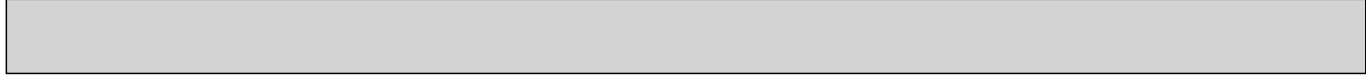
Cooling capacity



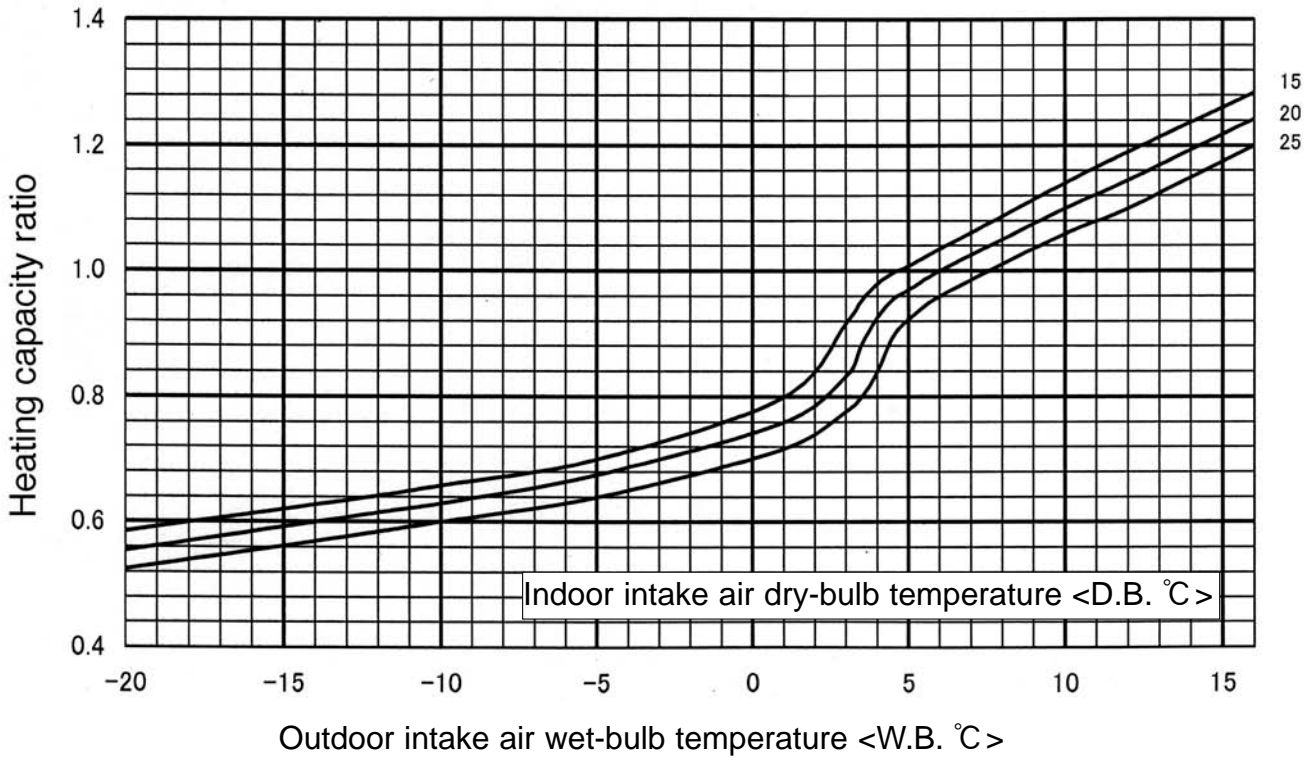
Cooling input



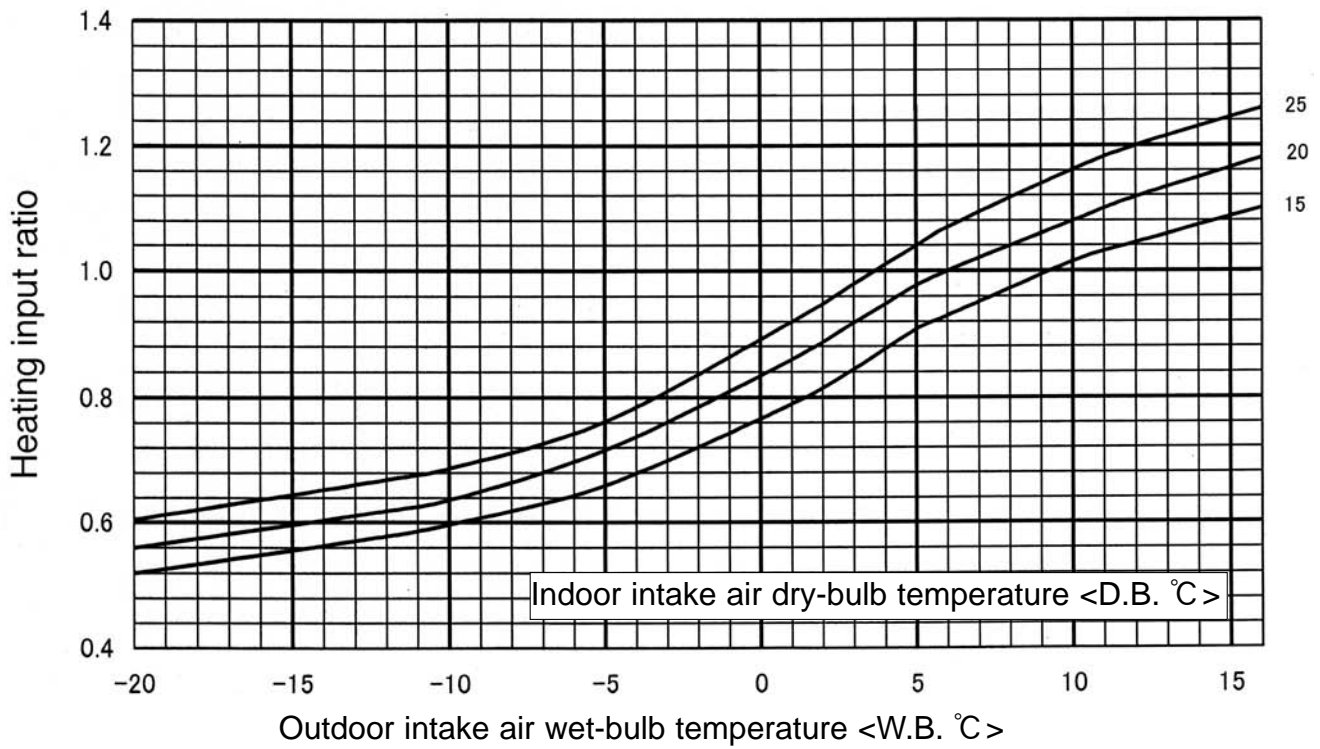
Note : These diagrams show the case where the operation frequency of a compressor is fixed.



Heating capacity



Heating input



Note : These diagrams show the case where the operation frequency of a compressor is fixed.

7

CORRECTION FACTORS

7-1. PUAZ-RP-VHA4 PUAZ-RP-VKA PUAZ-RP100-140YKA

Cooling capacity correction factors

Outdoor unit	Refrigerant piping length (one way)									
	5m	10m	20m	30m	40m	50m	55m	60m	70m	80m
PUAZ-RP35VHA4	1.00	0.992	0.976	0.962	0.949	0.936	0.930	—	—	—
PUAZ-RP50VHA4	1.00	0.985	0.957	0.931	0.908	0.886	0.876	—	—	—
PUAZ-RP60VHA4	1.00	0.992	0.976	0.962	0.949	0.936	0.930	—	—	—
PUAZ-RP71VHA4	1.00	0.988	0.966	0.946	0.929	0.913	0.905	—	—	—
PUAZ-RP100VKA PUAZ-RP100YKA	1.00	0.985	0.957	0.931	0.908	0.886	0.876	0.865	0.846	0.829
PUAZ-RP125VKA PUAZ-RP125YKA	1.00	0.981	0.946	0.914	0.885	0.858	0.845	0.834	0.812	0.792
PUAZ-RP140VKA PUAZ-RP140YKA	1.00	0.976	0.931	0.893	0.858	0.827	0.813	0.800	0.775	0.753

Heating capacity correction factors

Outdoor unit	Refrigerant piping length (one way)									
	5m	10m	20m	30m	40m	50m	55m	60m	70m	80m
PUAZ-RP35VHA4	1.00	0.997	0.991	0.985	0.979	0.973	0.970	—	—	—
PUAZ-RP50VHA4	1.00	0.997	0.991	0.985	0.979	0.973	0.970	—	—	—
PUAZ-RP60VHA4	1.00	0.997	0.991	0.985	0.979	0.973	0.970	—	—	—
PUAZ-RP71VHA4	1.00	0.997	0.991	0.985	0.979	0.973	0.970	—	—	—
PUAZ-RP100VKA PUAZ-RP100YKA	1.00	0.997	0.991	0.985	0.979	0.973	0.970	0.967	0.961	0.955
PUAZ-RP125VKA PUAZ-RP125YKA	1.00	0.997	0.991	0.985	0.979	0.973	0.970	0.967	0.961	0.955
PUAZ-RP140VKA PUAZ-RP140YKA	1.00	0.997	0.991	0.985	0.979	0.973	0.970	0.967	0.961	0.955

7-2. PUAZ-RP200, 250YKA

Cooling capacity correction factors

Outdoor unit	Refrigerant piping length (one way)							
	5m	10m	20m	30m	40m	50m	55m	60m
PUAZ-RP200YKA	1.00	0.985	0.958	0.931	0.908	0.887	0.876	0.865
PUAZ-RP250YKA	1.00	0.981	0.946	0.914	0.885	0.858	0.845	0.834

Outdoor unit	Refrigerant piping length (one way)							
	70m	75m	80m	90m	100m	110m	120m	125m
PUAZ-RP200YKA	0.847	0.838	0.829	0.815	0.800	0.790	0.780	0.778
PUAZ-RP250YKA	0.812	0.802	0.792	0.772	0.758	0.743	0.730	0.725

Heating capacity correction factors

Outdoor unit	Refrigerant piping length (one way)							
	5m	10m	20m	30m	40m	50m	55m	60m
PUAZ-RP200YKA PUAZ-RP250YKA	1.00	0.997	0.991	0.985	0.979	0.973	0.970	0.967

Outdoor unit	Refrigerant piping length (one way)							
	70m	75m	80m	90m	100m	110m	120m	125m
PUAZ-RP200YKA PUAZ-RP250YKA	0.961	0.958	0.955	0.949	0.943	0.937	0.931	0.928

8 APPLICABLE EXTENSION PIPE FOR EACH MODEL

8-1. PUAZ-RP-VHA4 PUAZ-RP-VKA PUAZ-RP100-140YKA

8-1-1. PIPE LENGTH

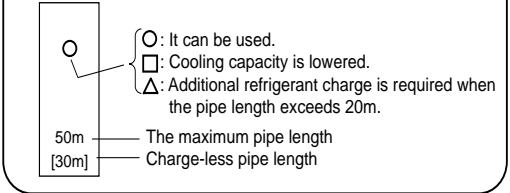
(1) 1:1 SYSTEM

Pipe length

<Table 1> Maximum pipe length

Liquid pipe (mm)	OD	φ6.35			φ9.52			φ12.7	
	Thickness	t0.8			t0.8			t0.8	
Gas pipe (mm)	OD	φ9.52	φ12.7	φ15.88	φ12.7	φ15.88	φ19.05	φ15.88	φ19.05
	Thickness	t0.8	t0.8	t1.0	t0.8	t1.0	t1.0	t1.0	t1.0
RP35*50	□	30m *1 [30m]	Standard size 50m [30m]	○ *2 30m [30m]	△ 30m [20m]	△ *2 30m [20m]	/	/	/
RP60*71	□	/	10m [10m]	○ 10m [10m]	□ 30m [30m]	Standard size 50m [30m]	/	△ 30m [20m]	/
RP100-140	/	/	/	/	/	Standard size 50m *3 [30m]	○ 50m [30m]	△ 50m [20m]	△ 50m [20m]

<Marks in the table>



*1. RP50 : maximum pipe length is 10m.

*2. Change the SW8-1 on the outdoor controller circuit board from OFF to ON.

*3. The maximum length is 75m in case of new pipes.

(2) TWIN AND TRIPLE SYSTEM

(a) TWIN SYSTEM

<Table 2> Maximum pipe length

Main pipe (mm) [A]	Liquid pipe	RP71(RP35*2)		RP100(RP50*2)			RP125(RP60*2) • RP140(RP71*2)		
		φ6.35	φ9.52	φ9.52	φ9.52	φ12.7	φ9.52	φ9.52	φ12.7
Branch pipe (mm) [B, C]	Gas pipe	φ12.7	φ15.88	φ15.88	φ19.05	φ19.05	φ15.88	φ19.05	φ19.05
	Branch pipe (mm) [B, C]	Liquid pipe φ6.35	/	Standard size 50m	Standard size 50m *	50m	50m	/	/
Gas pipe φ12.7		/	50m [30m]	50m * [30m]	50m [30m]	50m [20m]	/	/	/
Liquid pipe φ9.52		/	○ 50m [30m]	○ 50m [30m]	○ 50m [30m]	△ 50m [20m]	Standard size 50m * [30m]	○ 50m [30m]	△ 50m [20m]
Gas pipe φ15.88		/	/	/	/	/	/	/	/
Liquid pipe φ12.7		/	/	/	/	/	/	/	/
Gas pipe φ19.05		/	/	/	/	/	/	/	/

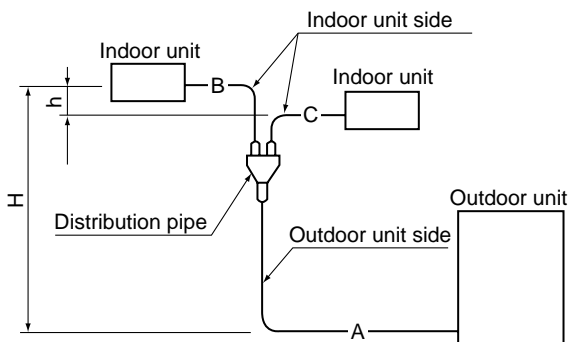
* The maximum length is 75m in case of new pipes.

(b) TRIPLE SYSTEM

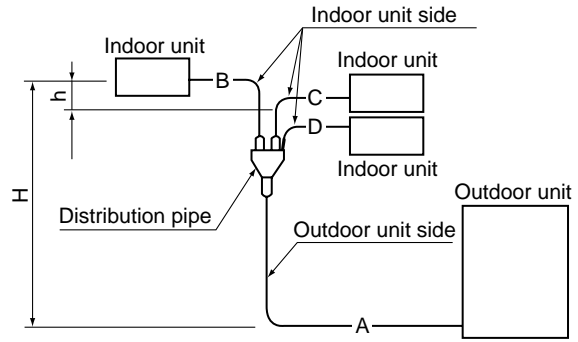
<Table 3> Maximum pipe length

Main pipe (mm) [A]	Liquid pipe	RP140(RP50*3)		
		φ9.52	φ9.52	φ12.7
Branch pipe (mm) [B, C, D]	Gas pipe	φ15.88	φ19.05	φ19.05
	Branch pipe (mm) [B, C, D]	Liquid pipe φ6.35	Standard size 50m *	○ 50m
Gas pipe φ12.7		50m * [30m]	50m [30m]	50m [20m]
Liquid pipe φ9.52		○ 50m [30m]	○ 50m [30m]	△ 50m [20m]
Gas pipe φ15.88		/	/	/
Liquid pipe φ12.7		/	/	/
Gas pipe φ19.05		/	/	/

* The maximum length is 75m in case of new pipes.



<TWIN SYSTEM>
Total length A + B + C
RP71 : 50 m
RP100-140: 75 m



<TRIPLE SYSTEM>
Total length A + B + C + D
RP140: 75 m

8-1-2. ADJUSTING THE AMOUNT OF REFRIGERANT

- Check additional refrigerant charging amount referring to table 5, 6 when liquid pipe is 1 size larger than standard diameter.

<Table 5> Required additional charge when the pipe size is 1 size larger than the standard diameter (1:1 SYSTEM)

Outdoor unit	Liquid pipe O.D.	Refrigerant amount to be added
PUHZ-RP35,50	φ9.52	60 g per 1 m
PUHZ-RP60,71	φ12.7	100 g per 1 m
PUHZ-RP100~140	φ12.7	100 g per 1 m

<Table 6> Required additional charge when the pipe size is 1 size larger than the standard diameter (TWIN/TRIPLE SYSTEM)

Outdoor unit	When the extension pipe length (main piping + branch piping) exceeds 20 m
PUHZ-RP71~140	Additional refrigerant amount $\Delta W(g) = (100 \times L1) + (60 \times L2) + (30 \times L3) - 2000$

If the calculation produces a negative number ($\Delta W \leq 0$), additional charging is not necessary.

L1: φ12.7 liquid pipe length (m)

L2: φ9.52 liquid pipe length (m)

L3: φ6.35 liquid pipe length (m)

<Table 7> Additional refrigerant charging amount for pipe of standard diameter

Type	Outdoor unit	Permitted pipe length	Amount of unit filling refrigerant (kg)	Additional refrigerant charging amount for pipe length exceeding 30 m (kg)				
				31 – 40m	41 – 50m	51 – 60m	61 – 70m	71 – 75m
1 : 1 system	PUHZ-RP35,50	50m or less	2.5kg	0.2kg	0.4kg	/	/	/
	PUHZ-RP71		3.5kg	0.6kg	1.2kg	/	/	
	PUHZ-RP100~140	75m or less	5.0kg	0.6kg	1.2kg	1.8kg	2.4kg	

Type	Outdoor unit	Permitted pipe length	Amount of unit filling refrigerant (kg)	Additional refrigerant charging amount for pipe length exceeding 30 m (kg)				
				31 – 40m	41 – 50m	51 – 60m	61 – 70m	71 – 75m
Twin Triple system	PUHZ-RP71	50m or less	3.5kg	0.6kg	1.2kg	/	/	/
	PUHZ-RP100~140	75m or less	5.0kg	0.6kg	1.2kg	1.8kg	2.4kg	

8-1-3. CAPACITY CORRECTION CURVES

Cooling and heating capacity is lowered according to pipe length. Capacity can be obtained by referring to the capacity curves below. When the diameter of gas pipe is 1 size smaller than standard diameter, cooling capacity is lowered comparing to the standard diameter. The lowered capacity can be obtained by referring to capacity curves for gas pipe which is 1 size smaller than standard size.

$$\text{Corrected pipe length (m)} = \text{actual pipe length (m)} + \text{number of bends} \times 0.3 \text{ (m)}$$

[Sample calculation]

Indoor unit RP60 × 2 units (Twin system)

Outdoor unit RP125 × 1

■ Condition Using existing pipes.

• Outdoor unit side

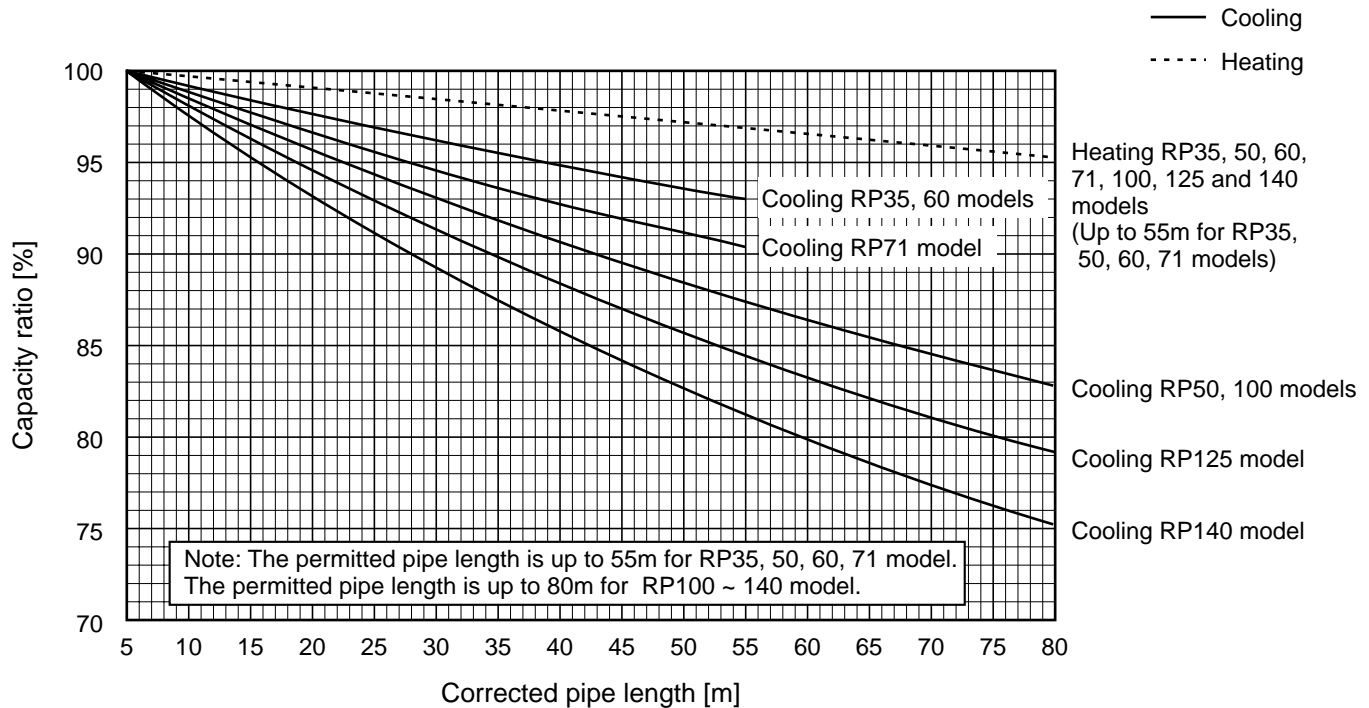
Liquid pipe $\phi 12.7$ / Gas pipe $\phi 19.05$
pipe length (A) 20m

• Indoor unit side

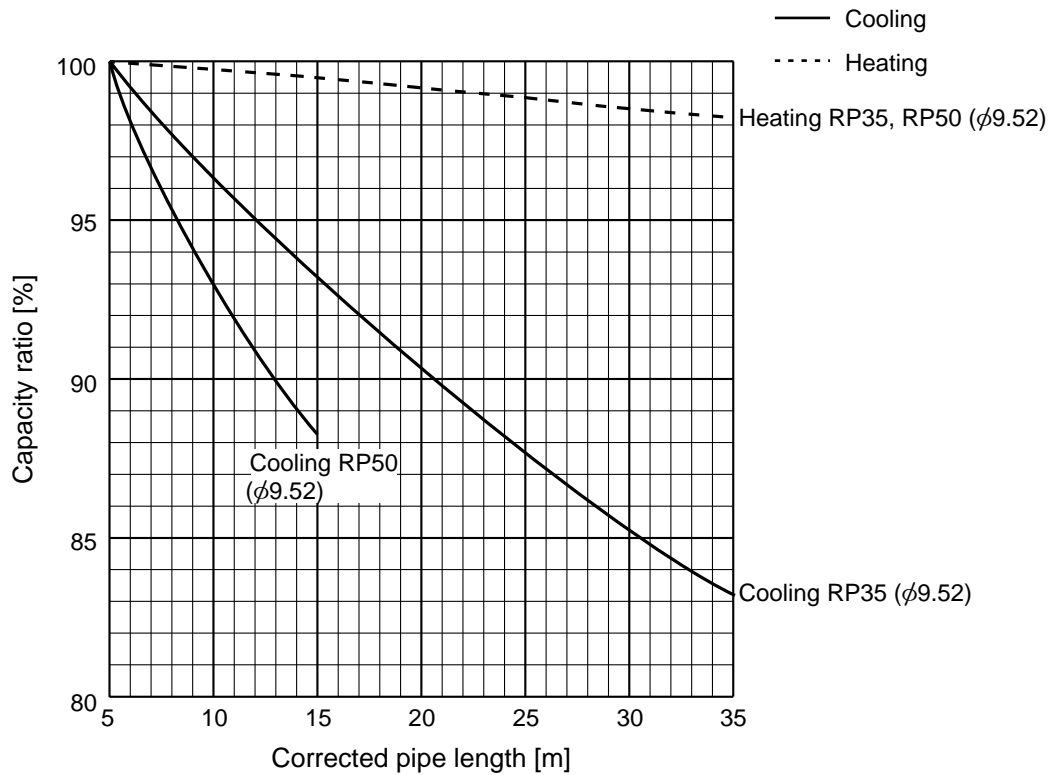
Liquid pipe $\phi 9.52$ / Gas pipe $\phi 15.88$
pipe length (B) 20m + (C) 15m

- 1) Farthest piping length 20m + 15m = 35m
Number of bends : 10
- 2) Corrected piping length 35m + 0.3 × 10 = 38m
- 3) Capacity correction Outdoor unit side's gas pipe $\phi 19.05$
Standard $\phi 15.88 \rightarrow 1$ size up
Refer to ① Capacity curves <Standard size>
- 4) Capacity Cooling capacity = Standard cooling capacity × 0.89
Heating capacity = Standard heating capacity × 0.98

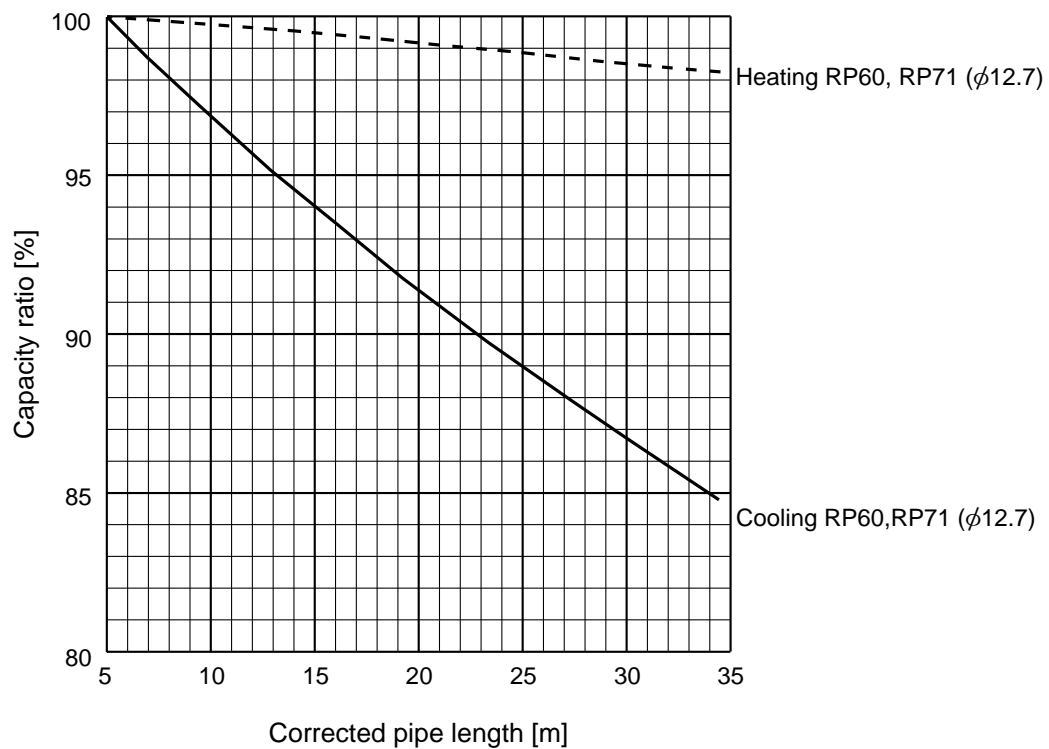
① Capacity curves for PUHZ-RP · HA2 model <Standard size>



② Capacity curve for PUAZ-RP35, 50 models
 <When gas pipe is 1 size smaller than standard size>



③ Capacity curve for PUAZ-RP60, 71 models
 <When gas pipe is 1 size smaller than standard size>



④ When gas pipe is one size larger than standard size for PUAZ-RP100, 125 and 140.

① Capacity can be obtained by referring to capacity curves of standard size.

8-2. PUAZ-RP200-250YKA

8-2-1. 1:1 SYSTEM

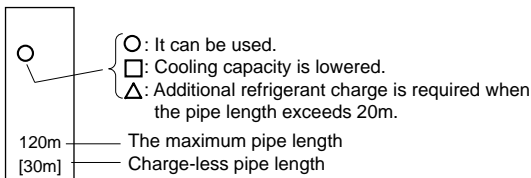
(1) Pipe length

<Table 1> Maximum pipe length (RP200-RP250)

Liquid pipe (mm)	O.D.	φ9.52				φ12.7				φ15.88			
	Thick-ness	t0.8				t0.8				t1.0			
Gas pipe (mm)	O.D.	φ19.05	φ22.2	φ25.4	φ28.58	φ19.05	φ22.2	φ25.4	φ28.58	φ22.2	φ25.4	φ28.58	φ31.75
	Thick-ness	t1.0	t1.0	t1.0	t1.0	t1.0	t1.0	t1.0	t1.0	t1.0	t1.0	t1.0	t1.1
RP200		□ 20m [20m]	□ 50m [30m]	○ Standard size 120m [30m]	○ 120m [30m]	□ 20m [20m]	□ 50m [30m]	○ 120m [30m]	○ 120m [30m]	△□ 50m [20m]	△ 50m [20m]	△ 50m [20m]	△ 50m [20m]
RP250		□ 20m [20m]	□ 50m [30m]	○ 120m [30m]	○ 120m [30m]	□ 20m [20m]	□ 50m [30m]	○ Standard size 120m [30m]	○ 120m [30m]	△□ 50m [20m]	△ 50m [20m]	△ 50m [20m]	△ 50m [20m]

Note : Be sure to use hard (tempered) one for pipe over φ22.2(RP200)/φ19.05(RP250).

<Marks in the table above>



(2) Adjusting the amount of refrigerant

Check additional refrigerant charging amount referring to table 7 when the liquid pipe diameter is 1 size larger than the standard size, and table 2 when the pipe of the standard diameter is used.

<Table 2>

Outdoor unit	permitted pipe length	Initial charge (kg)	Amount of additional refrigerant charge (kg)					71-120 m and less
			30 m and less	31-40 m and less	41-50 m and less	51-60 m and less	61-70 m and less	
RP200	120m or less	7.1	No additional charge necessary	0.9 kg	1.8 kg	2.7 kg	3.6 kg	The additional charge amount is obtained by the following formula.
RP250		7.7		1.2 kg	2.4 kg	3.6 kg	4.8 kg	

When length exceeds 70 m

When the total length of the piping exceeds 70 m, calculate the amount of additional charge based on the following requirements.

Note: If the calculation produces a negative number (i.e. a "minus" charge), of if calculation results in an amount that is less than the "Additional charge amount for 70 m", perform the additional charge using the amount shown in "Additional charge amount for 70 m".

Amount of additional charge (kg)	=	Main piping: Liquid line size φ12.7 overall length × 0.11 (m) × 0.11 (kg/m)	+	Main piping: Liquid line size φ9.52 overall length × 0.09 (Gas line: φ25.4) (m) × 0.09 (kg/m)	+	Branch piping: Liquid line size φ9.52 overall length × 0.06 (Gas line: φ15.88) (m) × 0.06 (kg/m)	+	Branch piping: Liquid line size φ6.35 overall length × 0.02 (m) × 0.02 (kg/m)	-	3.6 (kg)
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Additional charge amount for 70 meters	RP200	3.6 kg
	RP250	4.8 kg

•If the wiring connecting the indoor and outdoor units is longer than 80m, use separate indoor /outdoor unit power supplies.

(3) Capacity correction

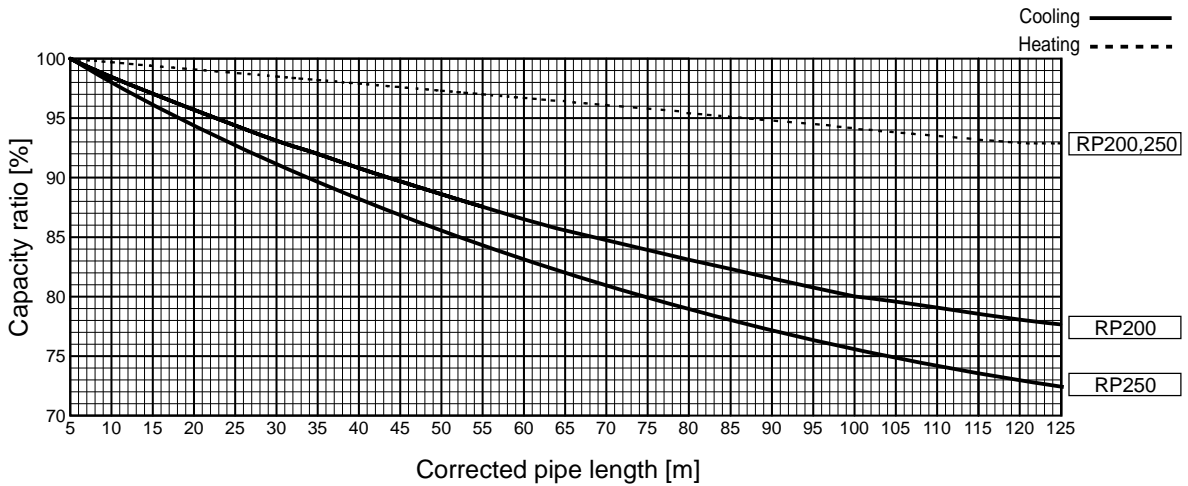
Cooling and heating capacity is lowered according to the piping length. Capacity can be obtained by referring to the following capacity curves.

When the diameter of the gas pipe is smaller than the standard size, cooling capacity is lowered comparing to the operation using the standard diameter pipe.

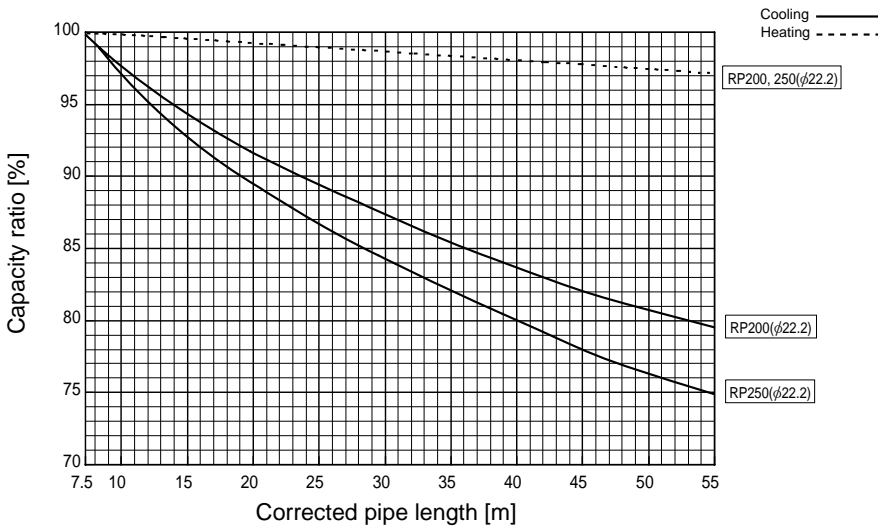
The lowered capacity can be obtained by referring to the capacity curves for gas pipe which is 1 or 2 size smaller than standard size.

$$\text{Corrected pipe length (m)} = \text{actual pipe length (m)} + \text{number of bends} \times 0.3 \text{ (m)}$$

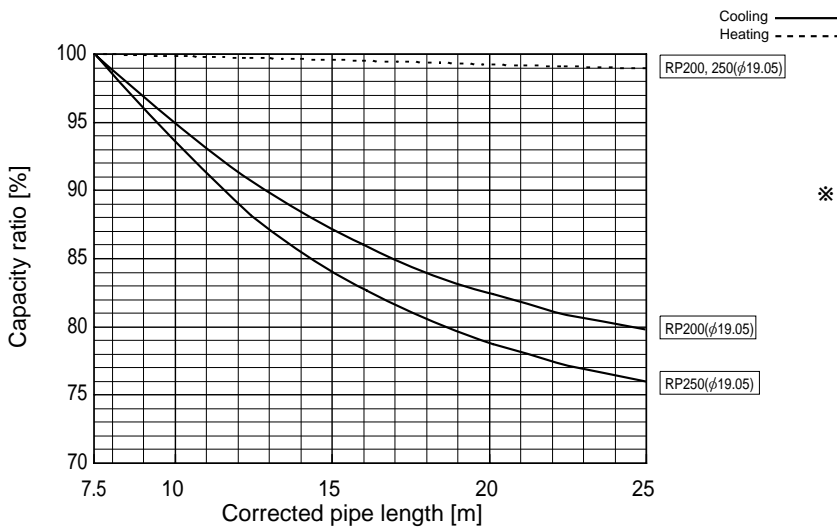
1. Capacity curves 1 <Standard size>



2. Capacity curves 2 <When the gas pipe's diameter is 1-size-smaller than the standard size>



3. Capacity curves 3 <When the gas pipe's diameter is 2-size-smaller than the standard size>



* RP250
Use 1/2H or H pipes if the diameter is 19.05.

2. TWIN, TRIPLE AND QUADRUPLE SYSTEM

(1) Twin

Maximum pipe length (Main pipe [A] + Branch pipe diameter [B and C])

Main pipe (mm)[A]	Liquid pipe	RP200 twin (RP100×2)												RP250 twin (RP125×2)											
		φ9.52				φ12.7				φ15.88				φ9.52				φ12.7				φ15.88			
Branch pipe (mm) [B, C]	Gas pipe	φ19.05	φ22.2	φ25.4	φ28.58	φ19.05	φ22.2	φ25.4	φ28.58	φ22.2	φ25.4	φ28.58	φ31.75	φ19.05	φ22.2	φ25.4	φ28.58	φ19.05	φ22.2	φ25.4	φ28.58	φ22.2	φ25.4	φ28.58	φ31.75
	Liquid pipe φ9.52	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	Gas pipe φ15.88	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	Liquid pipe φ9.52	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	Gas pipe φ19.05	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	Liquid pipe φ12.7	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
Gas pipe φ19.05	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	

• Be sure to use hard (tempered) one for pipe over φ22.2(RP200)/φ19.05(RP250).

(2) Triple

Maximum pipe length (Main pipe [A] + Branch pipe [B, C and D])

Main pipe (mm)[A]	Liquid pipe	RP200 triple (RP60×3)												RP250 triple (RP71×3)											
		φ9.52				φ12.7				φ15.88				φ9.52				φ12.7				φ15.88			
Branch pipe (mm) [B, C, D]	Gas pipe	φ19.05	φ22.2	φ25.4	φ28.58	φ19.05	φ22.2	φ25.4	φ28.58	φ22.2	φ25.4	φ28.58	φ31.75	φ19.05	φ22.2	φ25.4	φ28.58	φ19.05	φ22.2	φ25.4	φ28.58	φ22.2	φ25.4	φ28.58	φ31.75
	Liquid pipe φ9.52	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	Gas pipe φ15.88	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	Liquid pipe φ9.52	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	Gas pipe φ19.05	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	Liquid pipe φ12.7	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
Gas pipe φ19.05	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	

• Be sure to use hard (tempered) one for pipe over φ22.2(RP200)/φ19.05(RP250).

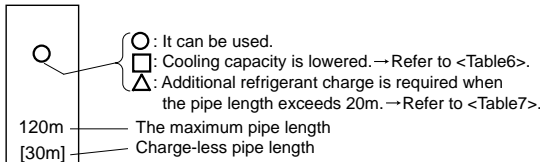
(3) Quadruple

Maximum pipe length (Main pipe [A] + Branch pipe [B, C, D and E])

Main pipe (mm)[A]	Liquid pipe	RP200 quadruple (RP50×4)												RP250 quadruple (RP60×4)											
		φ9.52				φ12.7				φ15.88				φ9.52				φ12.7				φ15.88			
Branch pipe (mm) [B, C, D, E]	Gas pipe	φ19.05	φ22.2	φ25.4	φ28.58	φ19.05	φ22.2	φ25.4	φ28.58	φ22.2	φ25.4	φ28.58	φ31.75	φ19.05	φ22.2	φ25.4	φ28.58	φ19.05	φ22.2	φ25.4	φ28.58	φ22.2	φ25.4	φ28.58	φ31.75
	Liquid pipe φ6.35	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	Gas pipe φ12.7	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	Liquid pipe φ9.52	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	Gas pipe φ15.88	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
	Liquid pipe φ9.52	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○
Gas pipe φ19.05	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	
Liquid pipe φ12.7	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	
Gas pipe φ19.05	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	□	□	○	○	

• Be sure to use hard (tempered) one for pipe over φ22.2(RP200)/φ19.05(RP250).

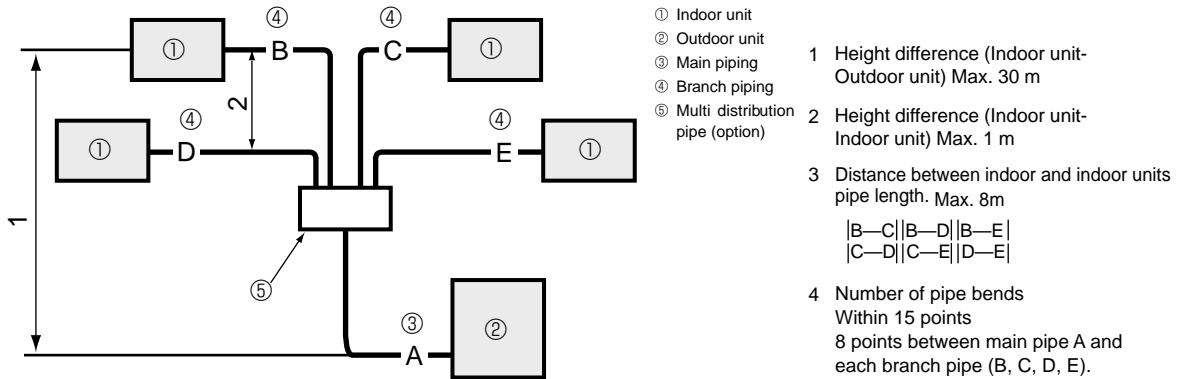
<Marks in the table above>



Pipe diameter and thickness

OD (mm)	φ6.35	φ9.52	φ12.7	φ15.88	φ19.05	φ22.2	φ25.4	φ28.58	φ31.75
Thickness (mm)	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.1

Be sure to use hard (tempered) one for pipe over φ19.05(RP250)/φ22.2(RP200). (Do not use soft (annealed) one.)



<Table 6> Lowered cooling capacity by the smaller gas pipe diameter

Pipe length	Cooling capacity ratio	
	gas pipe φ22.2	gas pipe φ19.05
5m and less	100%	100%
6~10m	100~95%	100~88%
11~20m	95~88%	88~77%
21~30m	88~83%	—
31~40m	83~79%	—
41~50m	79~75%	—

<Table 7> Additional refrigerant amount when the liquid pipe of the larger diameter is used. (Single / Simultaneous Twin / Simultaneous Triple / Simultaneous Quadruple)

Capacity	When the extension pipe length (main piping + branch piping) exceeds 20m
RP200, RP250	Additional refrigerant amount $\Delta W(g) = (180 \times L_1) + (120 \times L_2) + (90 \times L_3) + (30 \times L_4) - 3000$

L_1 : φ15.88 liquid pipe (m) L_2 : φ12.7 liquid pipe (m)
 L_3 : φ9.52 liquid pipe (m) L_4 : φ6.35 liquid pipe (m)

If the calculation produces a negative number (i.e. a "minus" charge), additional charging is not necessary. ($\Delta W \leq 0$)

<Table 8>

Outdoor unit	Permissible total piping length A+B+C+D+E	A+B or A+C or A+D or A+E	Charge-less piping length A+B+C+D+E
RP200 PR250	120 m and less	100 m and less	30 m and less

<Table 9>

Outdoor unit	B-C or B-D or B-E or C-D or C-E or D-E	Number of pipe bends
RP200 RP250	8 m and less	Within 15

<Table 10>

Outdoor unit	Permitted pipe length	At time of shipping (kg)	A+B+C+D					
			Amount of additional refrigerant charge (kg)					
			30 m and less	31-40 m and less	41-50 m and less	51-60 m and less	61-70 m and less	71-120 m and less
RP200	120m or less	7.1	No additional charge necessary	0.9 kg	1.8 kg	2.7 kg	3.6 kg	The additional charge amount is obtained by the following formula.
RP250		7.7		1.2 kg	2.4 kg	3.6 kg	3.6 kg	

When length exceeds 70 m

When the total length of the piping exceeds 70 m, calculate the amount of additional charge based on the following requirements.
 Note: If the calculation produces a negative number (i.e. a "minus" charge), or if calculation results in an amount that is less than the "Additional charge amount for 70 m," perform the additional charge using the amount shown in "Additional charge amount for 70 m."

Amount of additional charge	=	Main piping: Liquid line size φ12.7 overall length 0.11	+	Main piping: Liquid line size φ9.52 overall length 0.09 (Gas line: φ28.58)	+	Branch piping: Liquid line size φ9.52 overall length 0.06 (Gas line: φ15.88)	+	Branch piping: Liquid line size φ6.35 overall length 0.02 (Gas line: φ15.88)	-	3.6 (kg)
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Additional charge amount for 70 m	RP200	3.6 kg
	RP250	4.8 kg

1. Perform refrigerant piping connections for the indoor / outdoor unit while the outdoor unit's stop valve is completely closed (Initial setting), and then vacuumize the refrigerant lines through the service port of the outdoor unit.
2. Open the stop valves of the outdoor unit completely.
 This will completely connects the refrigerant circuits of the indoor and outdoor units.
 Stop valve opening method is shown on the outdoor unit's installation manual.

- Note :**
- Apply refrigerating machine oil over the flare seat surface. Do not apply to the threaded portion. (It will cause the flare nut to loosen.)
 - Use 2 wrenches to tighten piping connection.
 - Use leak detector or soapy water to check for gas leaks after connections are completed.
 - For the insulation of the connection at the indoor side, make sure to use the attached insulation materials and thoroughly follow the instruction shown in the manual.
 - Always use a non-oxidizing brazing material when brazing the pipes.

Adjusting the amount of refrigerant

Check additional refrigerant charging amount referring to the procedure ② below when the liquid pipe diameter of the main piping A is larger than the standard size.

- ① When the standard diameter pipe is used for the main piping A, calculate the additional refrigerant amount by referring to <Table 2> as well as the 1:1 system.
- ② When the liquid pipe diameter of the main piping A is one size larger than the standard size:
 - When the extension pipe length (main piping + branch piping) does not exceed 20m, adjustment of the refrigerant is not necessary (charge-less).
 - When the extension pipe length (main piping + branch piping) exceeds 20m, charge the amount of refrigerant that is obtained by the formula shown in <Table 7>.
 If the calculation produces a negative number (i.e. a "minus" charge), additional charging is not necessary.
 Note: Apply 0 to L₁, L₂, L₃ and L₄ which correspond to the liquid pipe size that are not used.

Correcting the capacity value

When calculating the lowered capacity by the extension pipe length, use the longest length between the indoor and the outdoor units.

9

AIR FLOW DATA

9-1. OUTLET AIR SPEED AND COVERAGE RANGE

		PLA-RP35BA	PLA-RP50BA	PLA-RP60BA	PLA-RP71BA PLA-RP71BA2	PLA-RP100BA PLA-RP100BA3	PLA-RP125BA PLA-RP125BA2	PLA-RP140BA2
Airflow	m ³ /min.	15	18	18	21	30	31	32
Air speed	m/sec.	2.6	3.2	3.2	3.7	5.3	5.4	5.6
Coverage range	m	4.1	4.8	4.8	5.6	8.0	8.2	8.5

		PCA-RP50KA	PCA-RP60KA	PCA-RP71KA	PCA-RP100KA	PCA-RP125KA	PCA-RP140KA
Airflow	m ³ /min.	15	19	20	28	29	32
Air speed	m/sec.	3.3	3.1	3.2	3.6	3.7	4.1
Coverage range	m	9.0	9.6	10.1	12.5	12.9	14.2

		PCA-RP71HA	PCA-RP125HA
Airflow	m ³ /min.	19	38
Air speed	m/sec.	2.9	4.2
Coverage range	m	7.9	13.2

		PKA-RP35HAL	PKA-RP50HAL
Airflow	m ³ /min.	12	12
Air speed	m/sec.	6.1	6.1
Coverage range	m(ft)	10.8(35.4)	10.8(35.4)

		PKA-RP60KAL	PKA-RP71KAL	PKA-RP100KAL
Airflow	m ³ /min.	22	22	26
Air speed	m/sec.	6.0	6.0	6.8
Coverage range	m(ft)	14.3(46.9)	14.3(46.9)	16.1(52.8)

		PSA-RP71GA	PSA-RP100GA	PSA-RP125GA	PSA-RP140GA
Airflow	m ³ /min.	18	31	33	35
Air speed	m/sec.	2.6	4.5	4.8	4.9
Coverage range	m	8.3	14.3	15.2	16.1

※ The air coverage range is the distance to which the 0.25m/sec air can reach, when air is blown out horizontally from the unit at the High notch position.

The coverage range should be used only as a general guideline since it varies according to the size of the room and the furniture inside the room.

9-2. PLA-RP-BA/BA2/BA3

9-2-1 FRESH AIR INTAKE AND BRANCH DUCT

1. Branch duct hole and fresh air intake hole (Fig. 1)

At the time of installation, use the duct holes (cut out) located at the positions shown in Fig.1, as and when required.

- A fresh air intake hole for the optional multi function casement can also be made.

Note:

The figure marked with * in the drawing represent the dimensions of the main unit excluding those of the optional multi function casement.

When installing the optional multi function casement, add 135 mm to the dimensions marked on the figure.

When installing the branch ducts, be sure to insulate adequately.

Otherwise condensation and dripping may occur.

Unit:mm

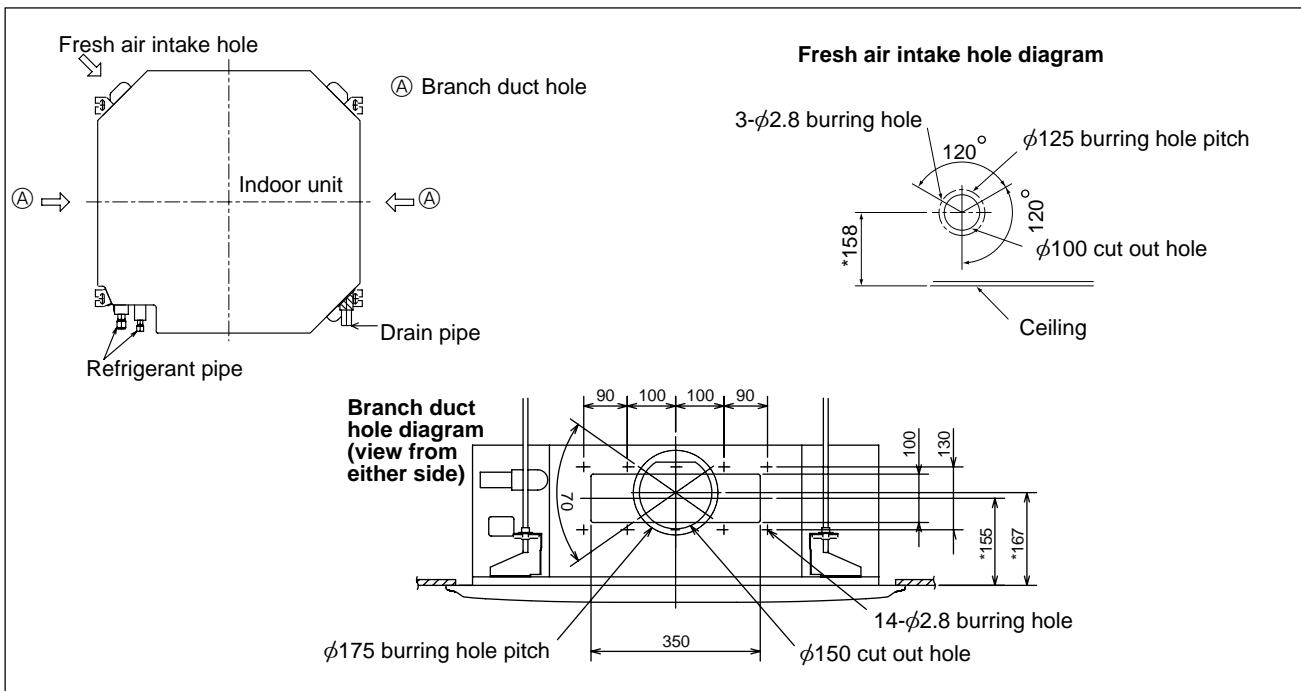
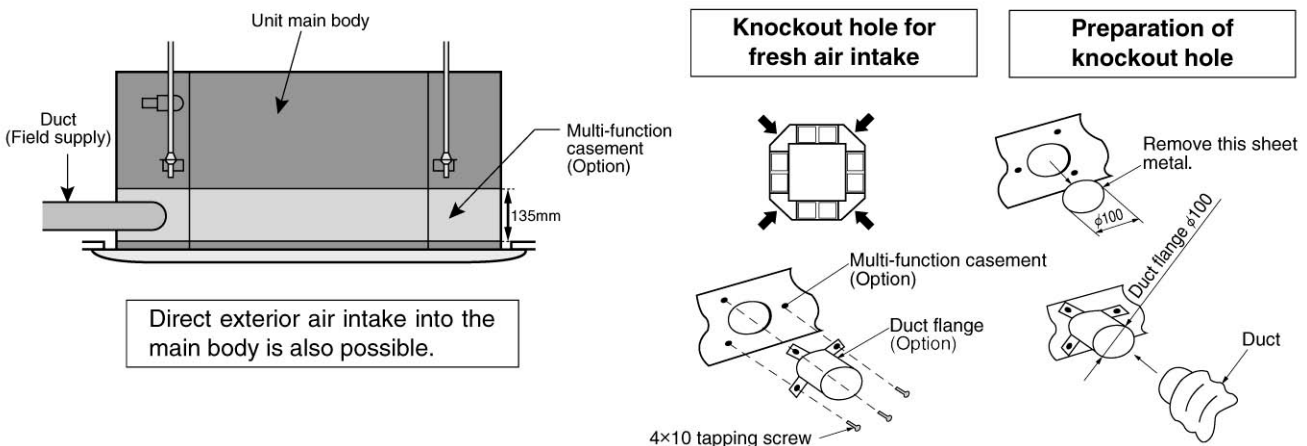


Fig. 1

2. Fresh air intake (Installation at site)

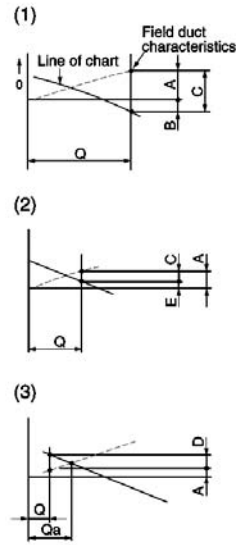
- By mounting the optional multi-function casement to the indoor unit main body, and mounting the duct and duct flange (option) onto it further, fresh exterior air intake can be accomplished.

(The mounting of the multi-function casement increases the height of the ceiling plenum by 135mm.)



3. Fresh air intake volume & static pressure characteristics

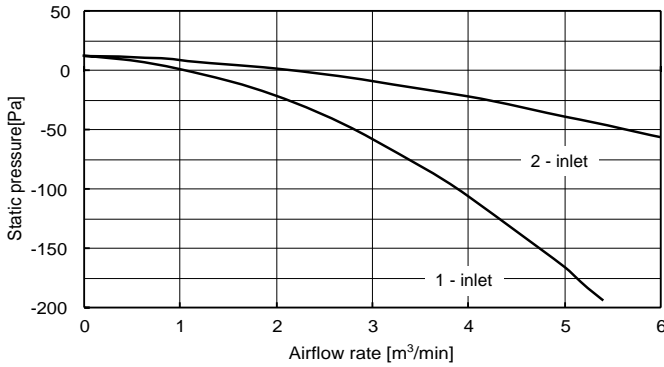
How to read the chart



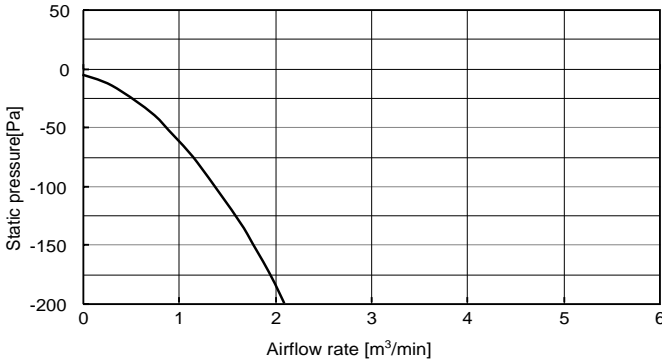
- Q Design fresh air intake volume (m³/min)
- A Static pressure loss [Pa] of fresh air intake duct at airflow rate of Q
- B Required boost pressure [Pa] of air conditioner inlet at airflow rate of Q
- C Required static pressure [Pa] of booster fan at airflow rate of Q
- D Required compensation [Pa] for static pressure loss of fresh air intake duct to make airflow rate Q
- E Static pressure [Pa] of indoor unit at airflow rate of Q
- Qa .. Estimated fresh air intake [m³/min] without compensation of D

PLA-RP35~71BA(2)

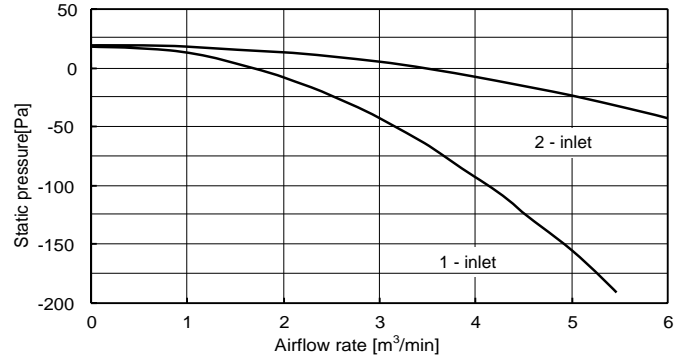
① At using multi-function casement, standard filter



② Direct intake to unit

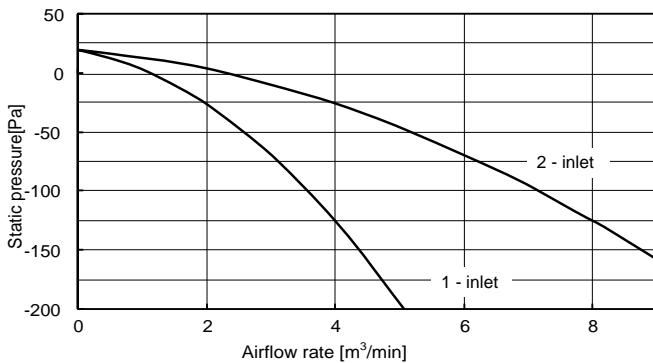


③ At using multi-function casement, high efficiency filter

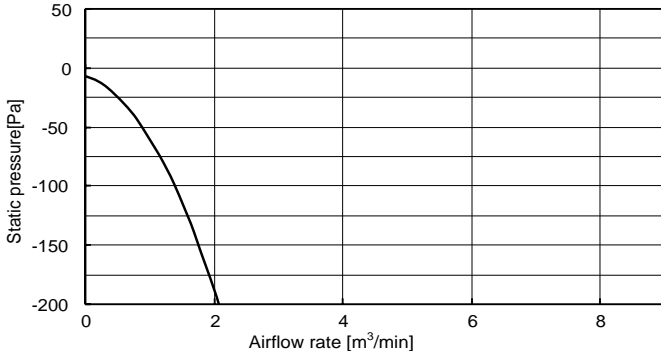


PLA-RP100BA(3), PLA-RP125,140BA(2)

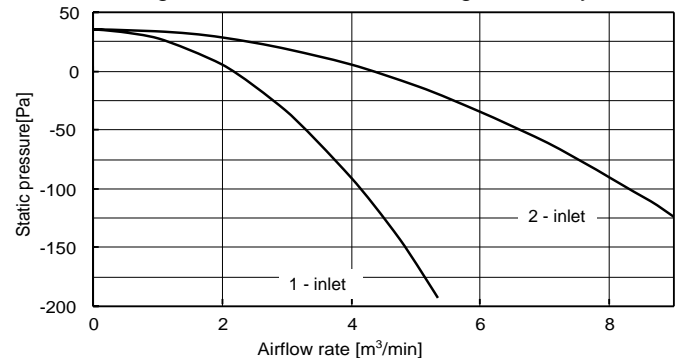
① At using multi-function casement, standard filter



② Direct intake to unit



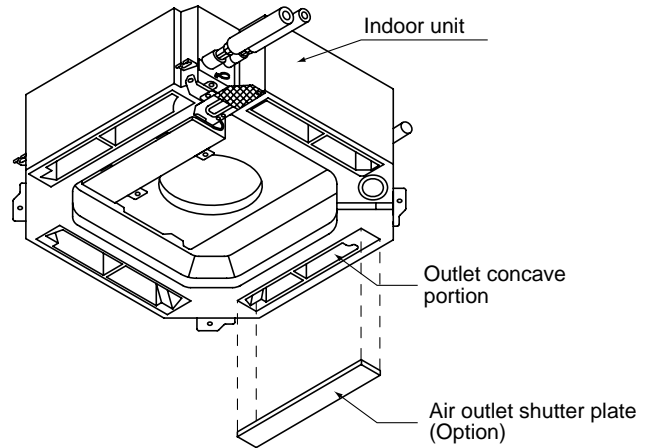
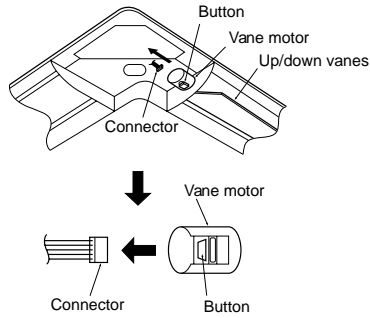
③ At using multi-function casement, high efficiency filter



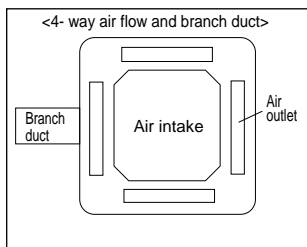
4. Change of outlet numbers

The optional air outlet is necessary.
To change the air outlet number to 3-, or 2-way outlet, the outlet number should be closed with the operational air outlet shutter.

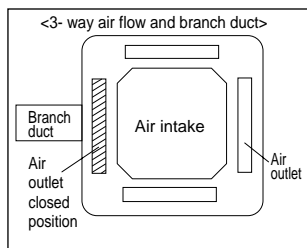
When the air outlets are closed, close the vane by removing the vane connector.



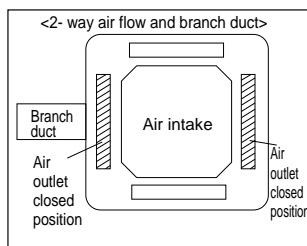
5. Branch duct and change of outlet numbers



※ Branch duct should be connected to one of the branch duct holes on the main unit.

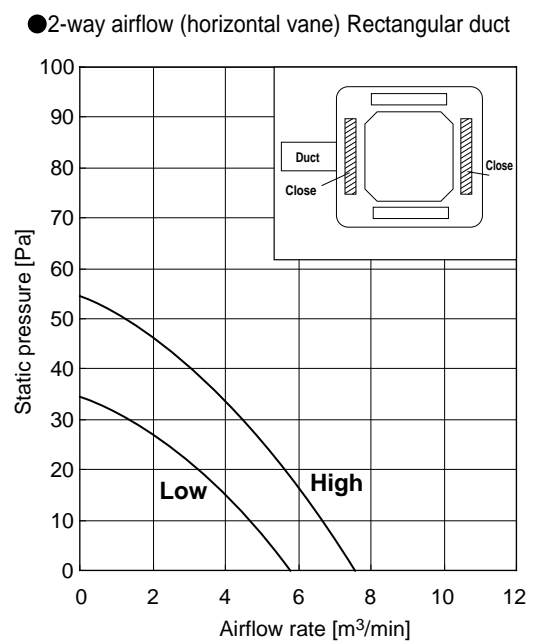
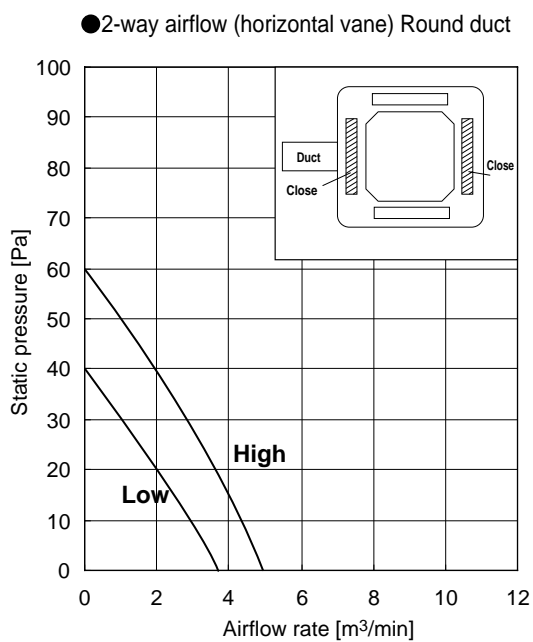
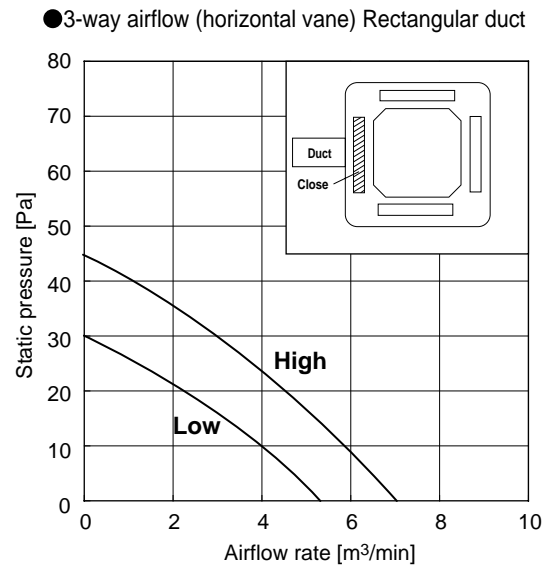
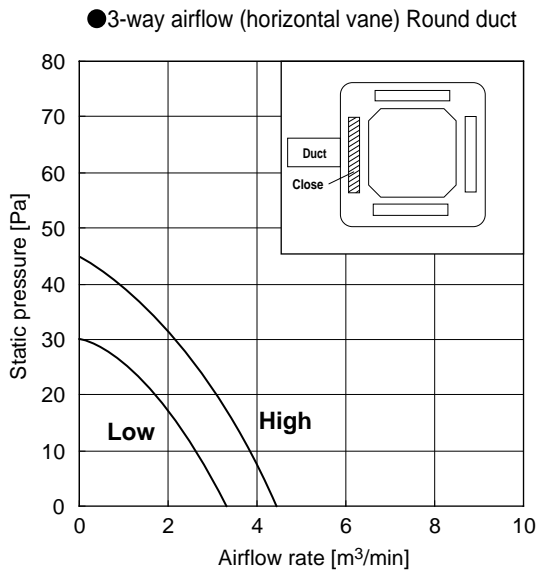
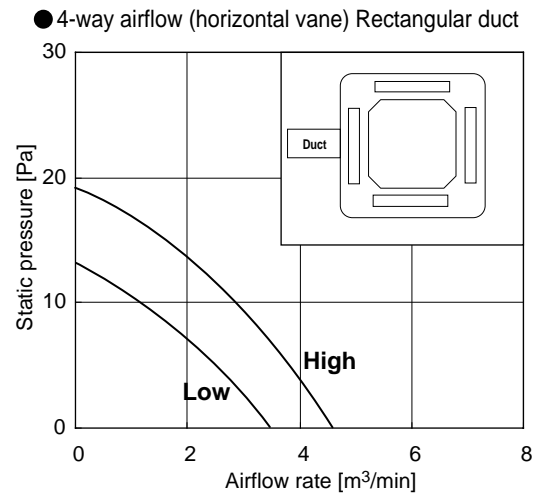
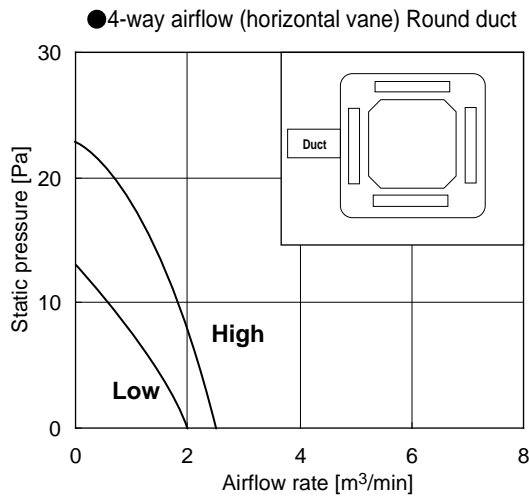


※ Close the outlet on the side of branch duct and air flows in 3 directions.



※ The outlet on the side of branch duct and one of the other outlets are closed. Air flows in 2 directions.

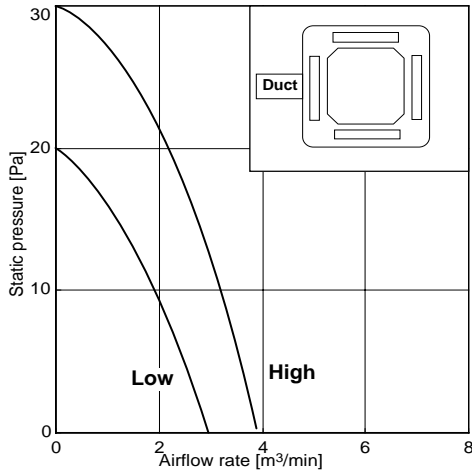
PLA-RP71BA PLA-RP71BA2



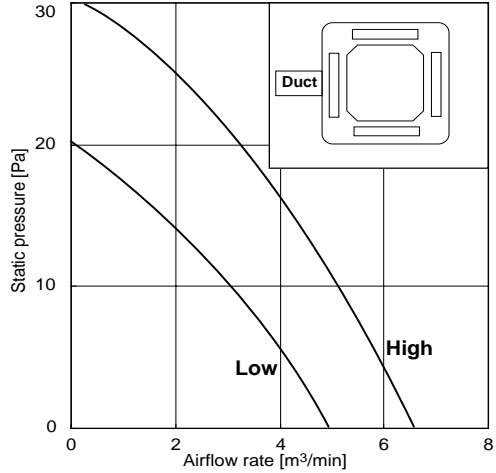
- Use 1 of the 2 duct holes on the indoor unit.
- Airflow rate of PLA-RP35~60BA can be calculated from the airflow rate based on the characteristic of the duct for PLA-RP71BA(2).
- Use the optional air outlet shutter plate (PAC-SH51SP-E) for 3-way and 2-way airflow.

PLA-RP125BA PLA-RP125BA2

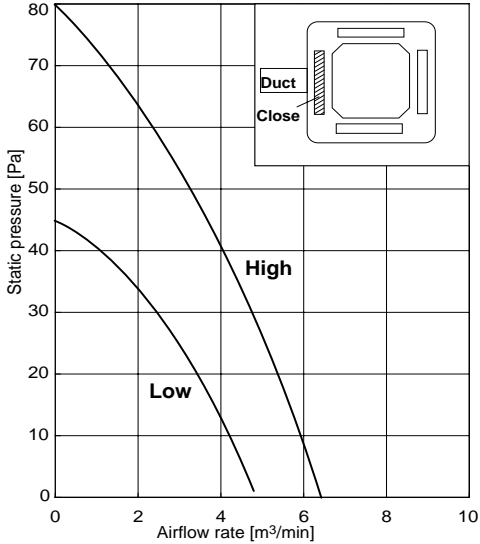
● 4-way airflow (horizontal vane) Round duct



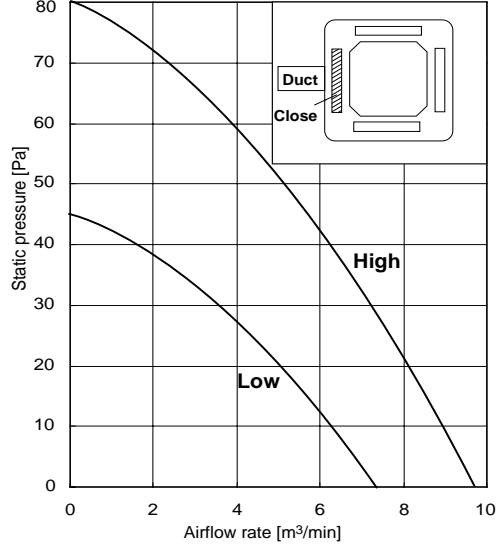
● 4-way airflow (horizontal vane) Rectangular duct



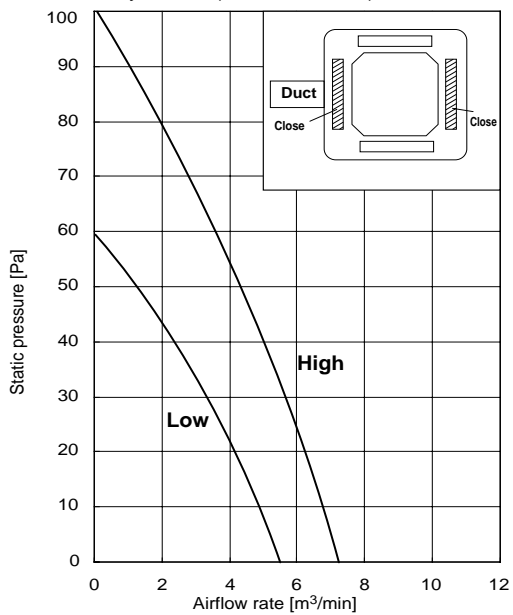
● 3-way airflow (horizontal vane) Round duct



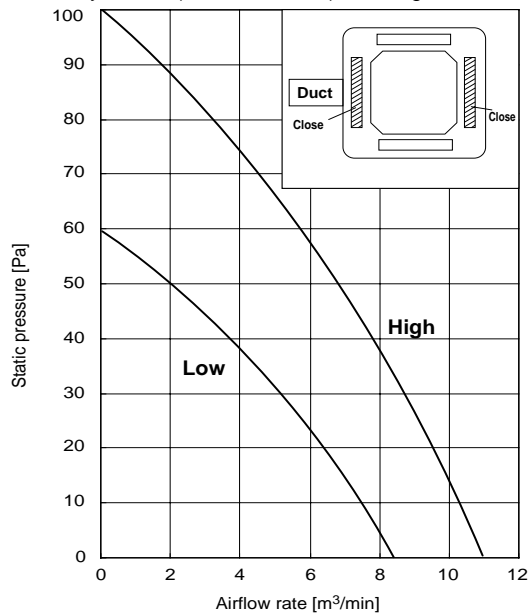
● 3-way airflow (horizontal vane) Rectangular duct



● 2-way airflow (horizontal vane) Round duct



● 2-way airflow (horizontal vane) Rectangular duct



- Use 1 of the 2 duct holes on the indoor unit.
- Airflow rate of PLA-RP100BA(3), PLA-RP140BA2 can be calculated from the airflow rate based on the characteristic of the duct for PLA-RP125BA(2).
- Use the optional air outlet shutter plate (PAC-SH51SP-E) for 3-way and 2-way airflow.

9-3. PCA-RP-KA

Fresh air intake amount & static pressure characteristics

■ PCA-RP50KA



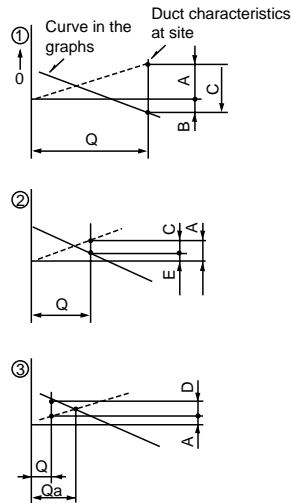
■ PCA-RP60, 71KA



■ PCA-RP100, 125, 140KA



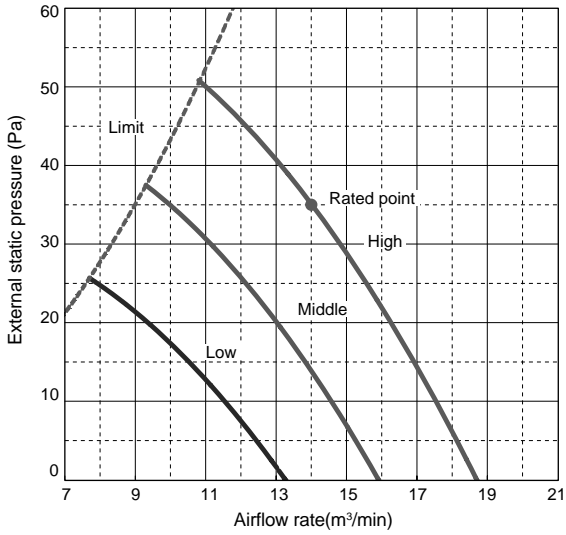
How to read curves



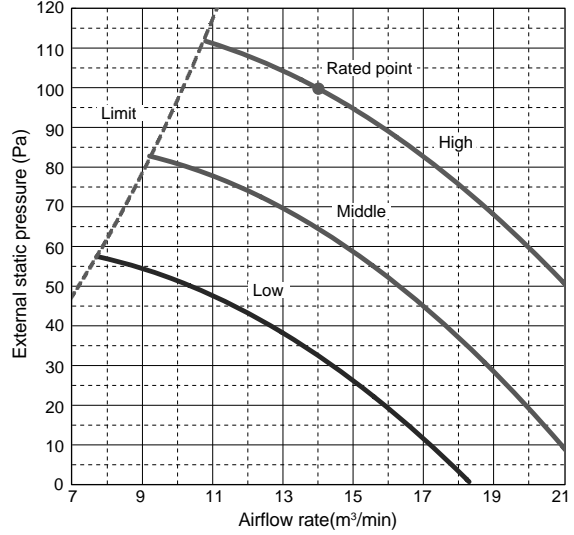
- Q...Designed amount of fresh air intake <m³/min>
- A...Static pressure loss of fresh air intake duct system with airflow amount Q <Pa>
- B...Forced static pressure at air conditioner inlet with airflow amount Q <Pa>
- C...Static pressure of booster fan with airflow amount Q <Pa>
- D...Static pressure loss increase amount of fresh air intake duct system for airflow amount Q <Pa>
- E...Static pressure of indoor unit with airflow amount Q <Pa>
- Qa...Estimated amount of fresh air intake without D <m³/min>

9-4. PEAD-RP-JA(L) Fan performance

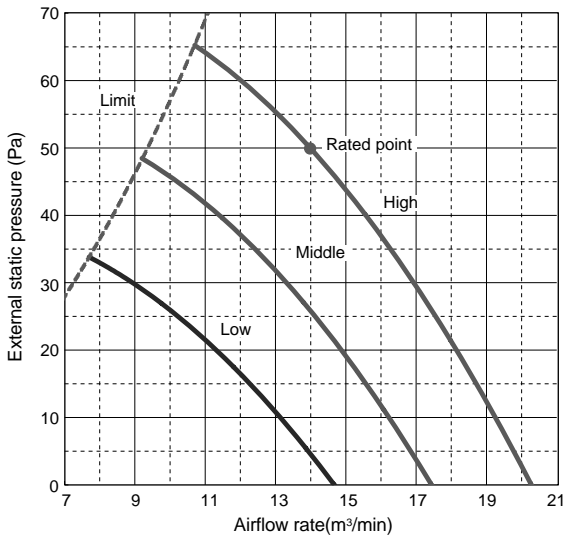
PEAD-RP35JA(L)
(External static pressure 35Pa) 220-240V 50Hz



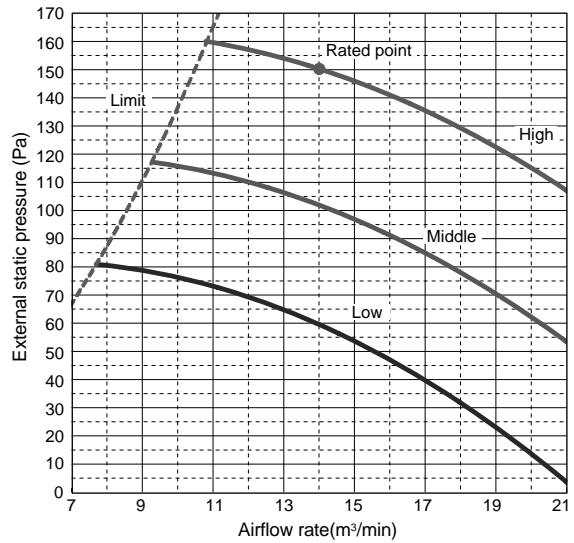
PEAD-RP35JA(L)
(External static pressure 100Pa) 220-240V 50Hz



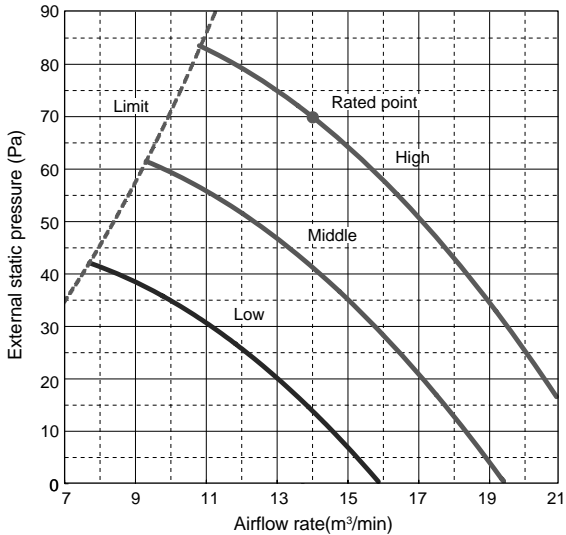
PEAD-RP35JA(L)
(External static pressure 50Pa) 220-240V 50Hz



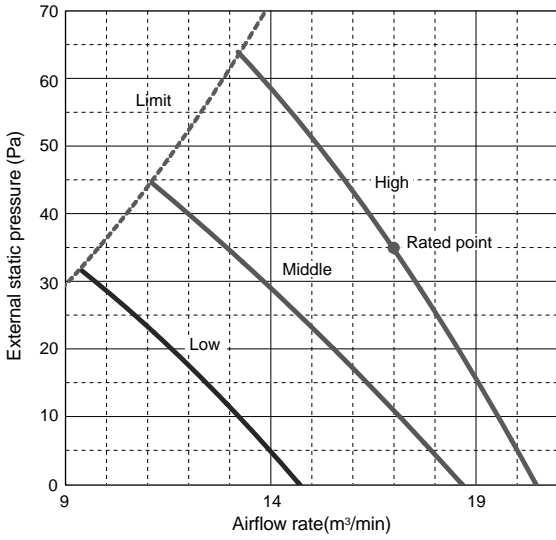
PEAD-RP35JA(L)
(External static pressure 150Pa) 220-240V 50Hz



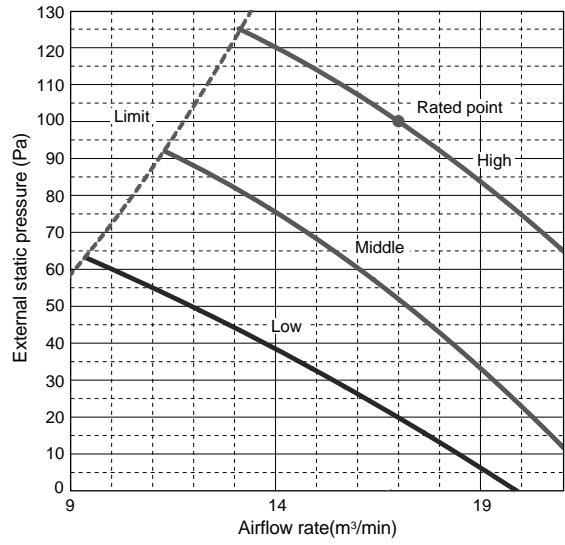
PEAD-RP35JA(L)
(External static pressure 70Pa) 220-240V 50Hz



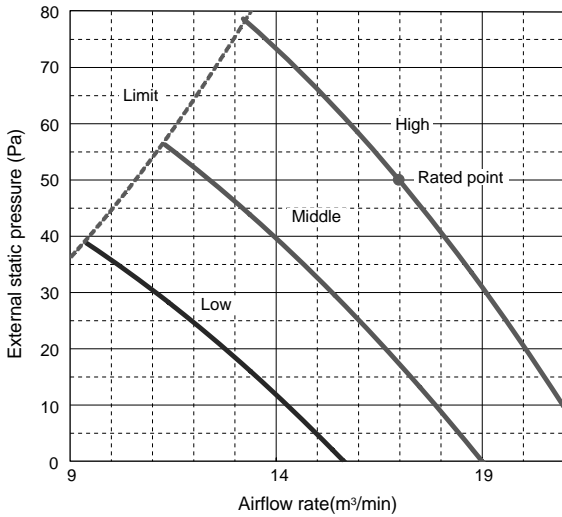
PEAD-RP50JA(L)
(External static pressure 35Pa) 220-240V 50Hz



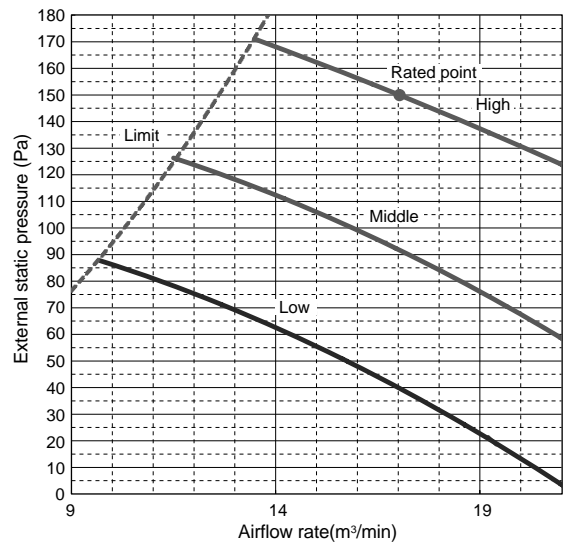
PEAD-RP50JA(L)
(External static pressure 100Pa) 220-240V 50Hz



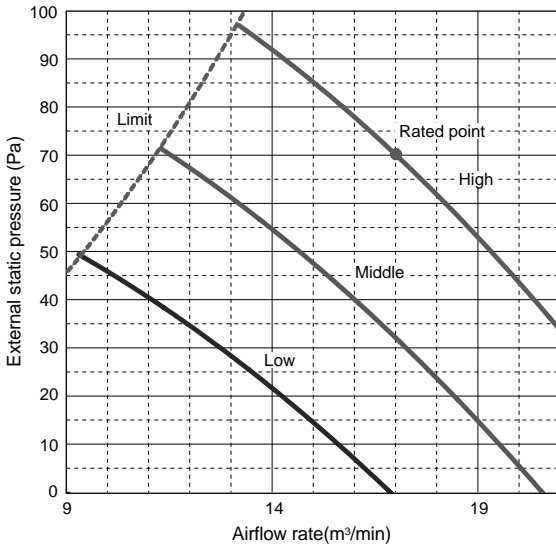
PEAD-RP50JA(L)
(External static pressure 50Pa) 220-240V 50Hz



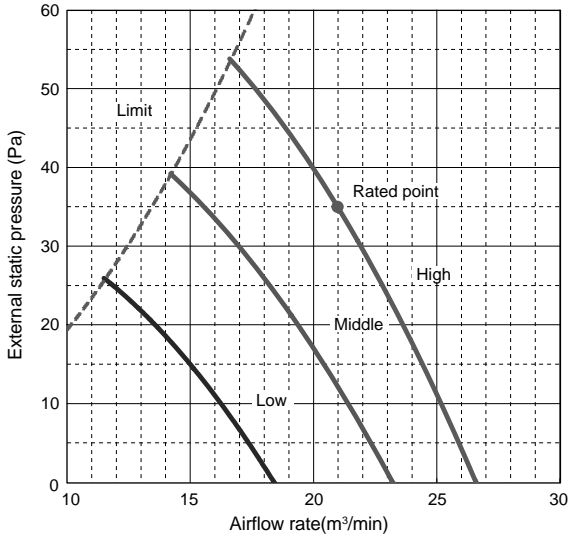
PEAD-RP50JA(L)
(External static pressure 150Pa) 220-240V 50Hz



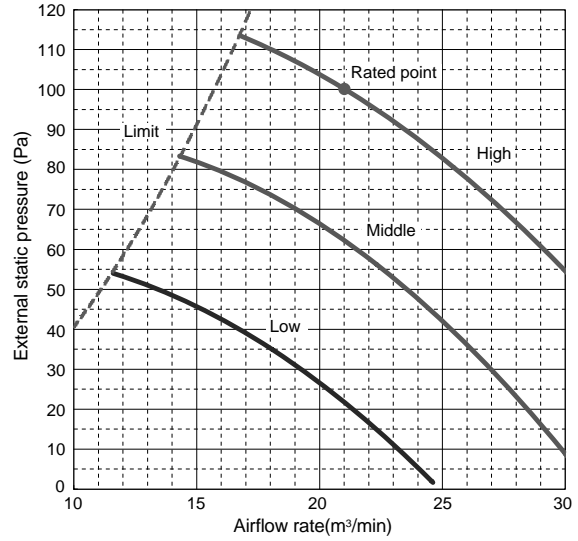
PEAD-RP50JA(L)
(External static pressure 70Pa) 220-240V 50Hz



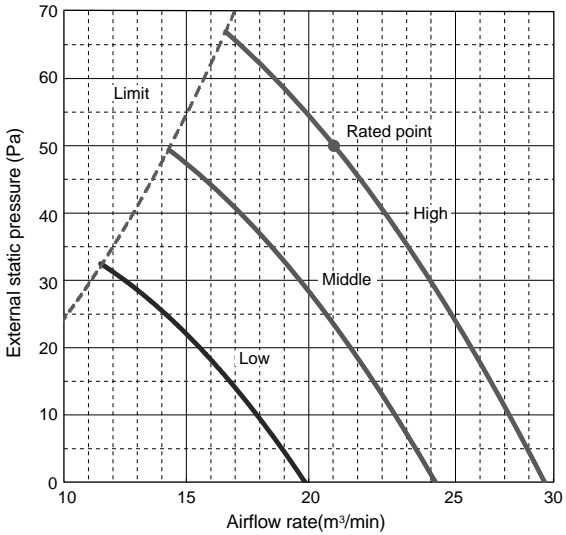
PEAD-RP60JA(L)
 (External static pressure 35Pa) 220-240V 50Hz



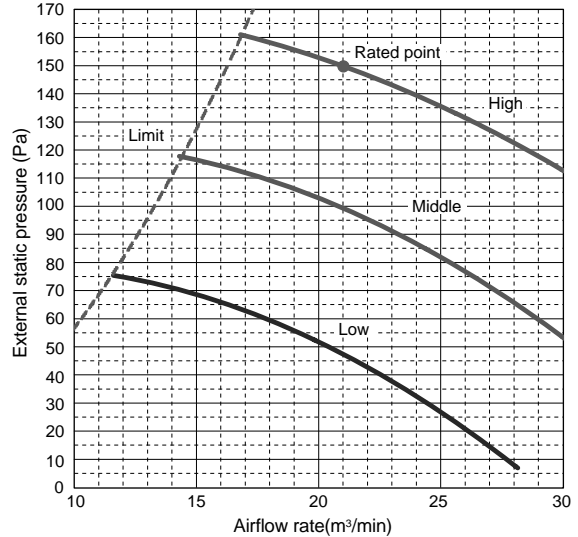
PEAD-RP60JA(L)
 (External static pressure 100Pa) 220-240V 50Hz



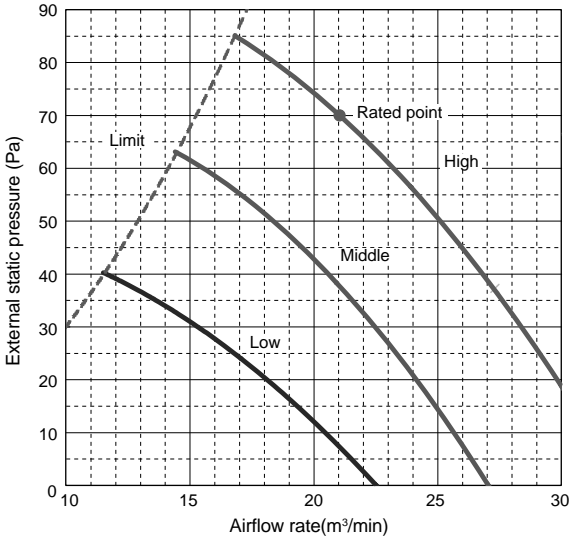
PEAD-RP60JA(L)
 (External static pressure 50Pa) 220-240V 50Hz



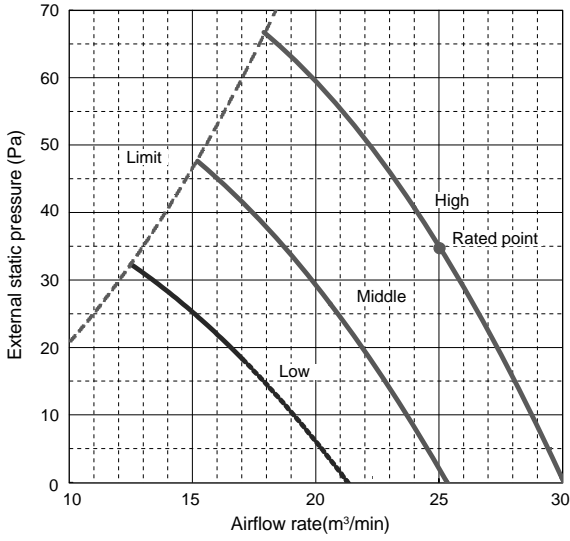
PEAD-RP60JA(L)
 (External static pressure 150Pa) 220-240V 50Hz



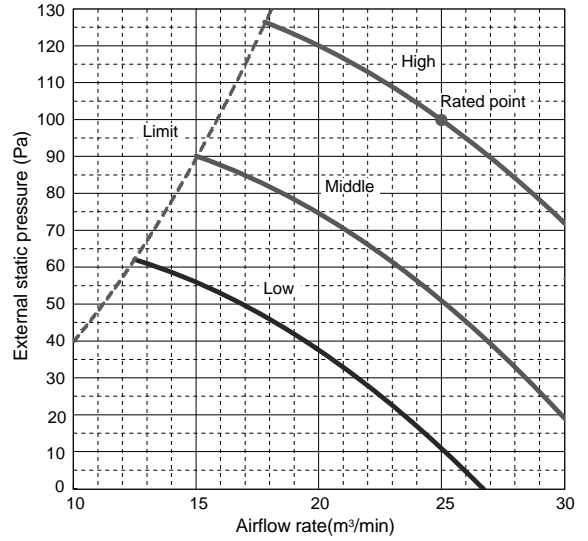
PEAD-RP60JA(L)
 (External static pressure 70Pa) 220-240V 50Hz



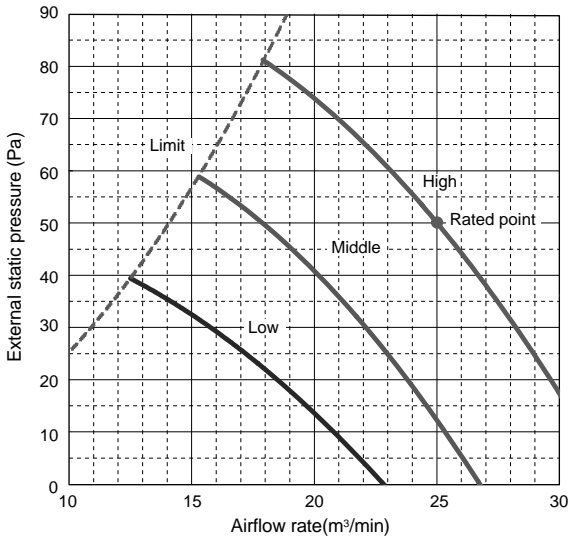
PEAD-RP71JA(L)
 (External static pressure 35Pa) 220-240V 50Hz



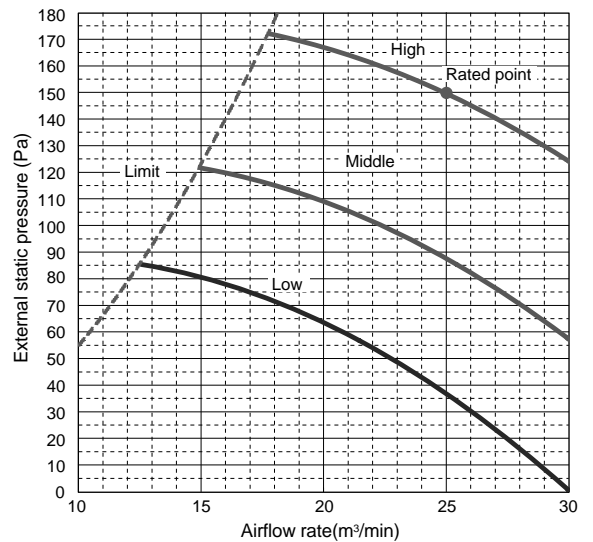
PEAD-RP71JA(L)
 (External static pressure 100Pa) 220-240V 50Hz



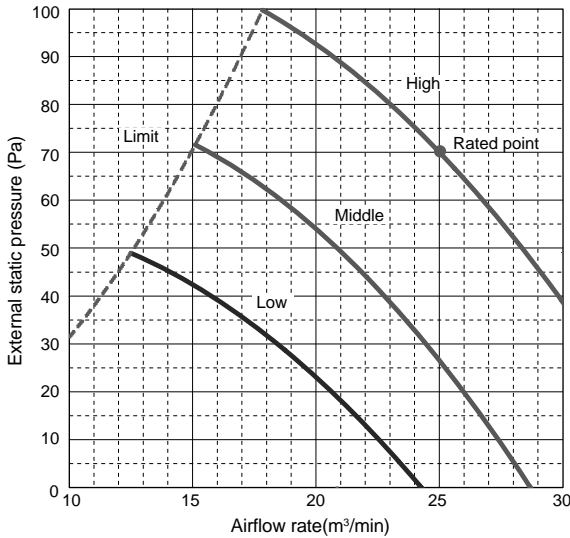
PEAD-RP71JA(L)
 (External static pressure 50Pa) 220-240V 50Hz



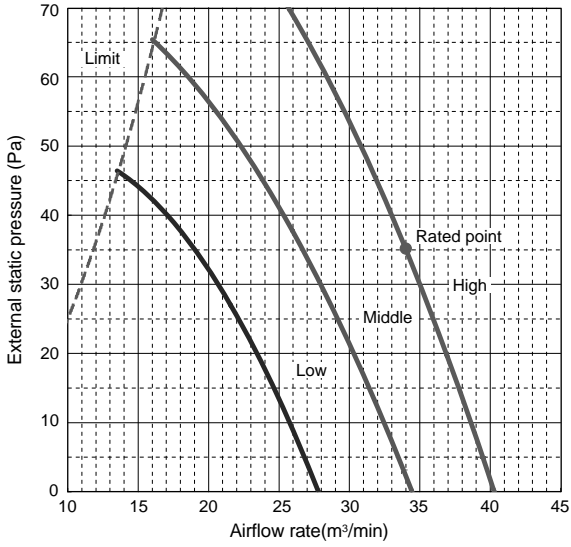
PEAD-RP71JA(L)
 (External static pressure 150Pa) 220-240V 50Hz



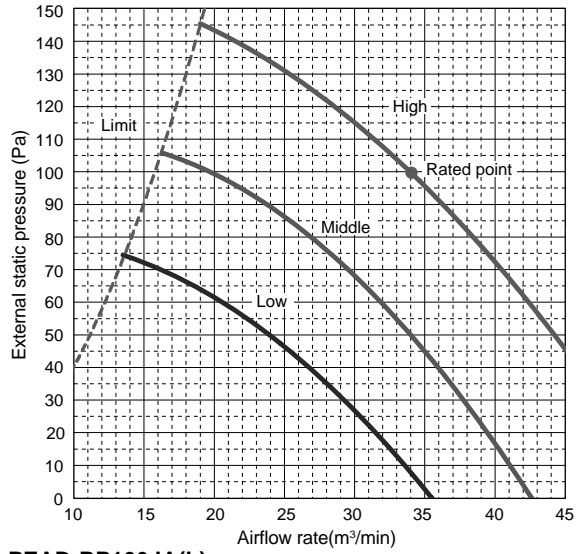
PEAD-RP71JA(L)
 (External static pressure 70Pa) 220-240V 50Hz



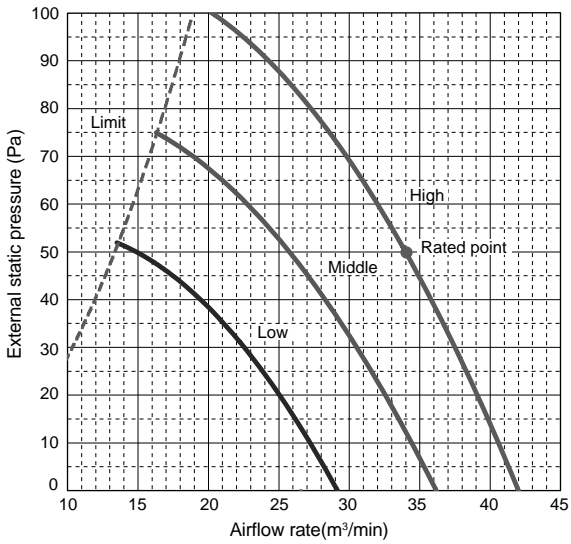
PEAD-RP100JA(L)
 (External static pressure 35Pa) 220-240V 50Hz



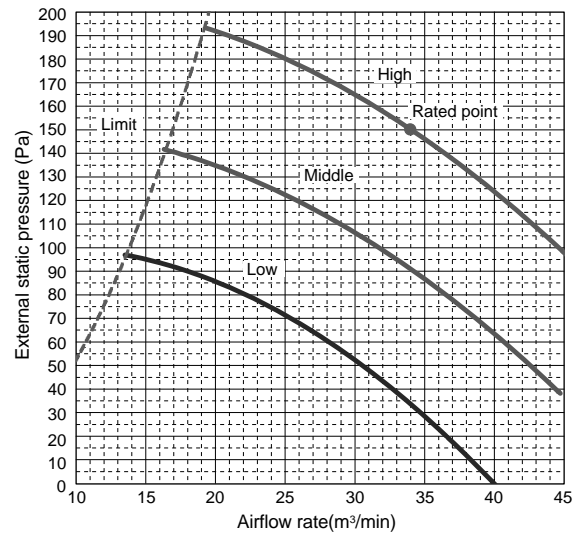
PEAD-RP100JA(L)
 (External static pressure 100Pa) 220-240V 50Hz



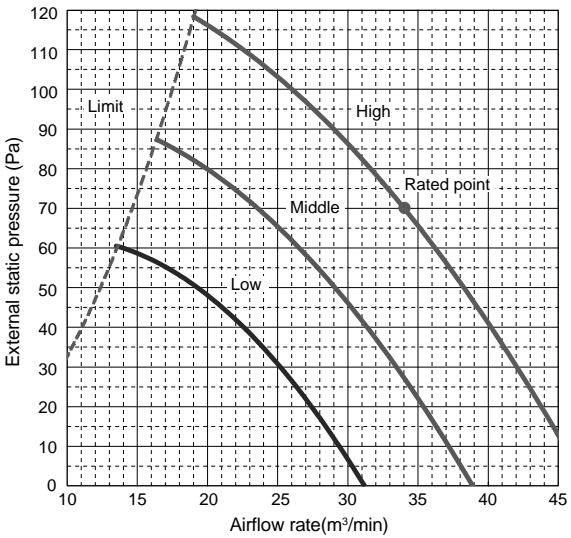
PEAD-RP100JA(L)
 (External static pressure 50Pa) 220-240V 50Hz



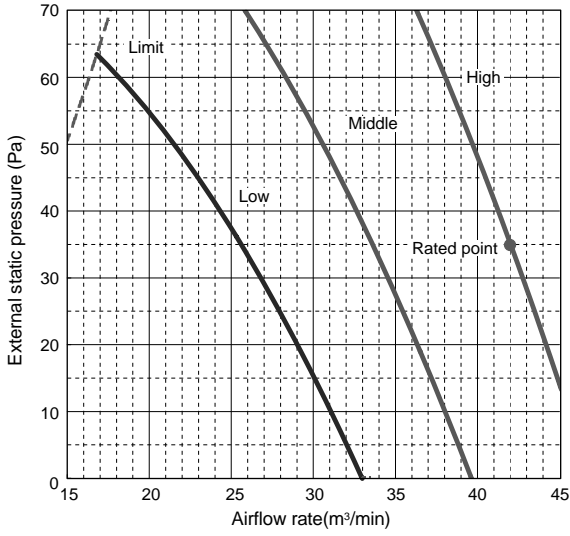
PEAD-RP100JA(L)
 (External static pressure 150Pa) 220-240V 50Hz



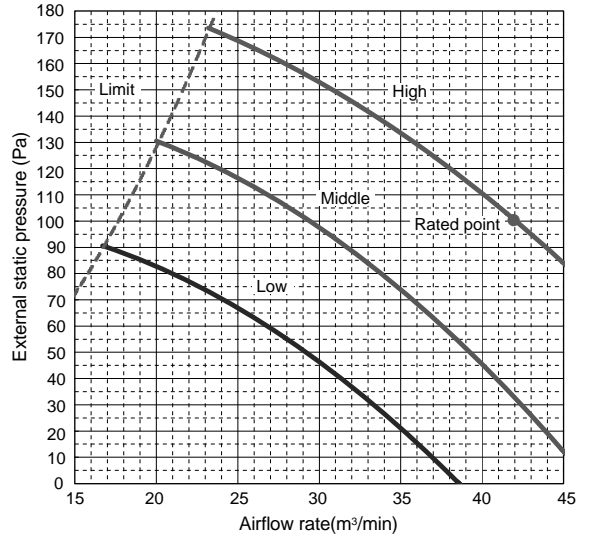
PEAD-RP100JA(L)
 (External static pressure 70Pa) 220-240V 50Hz



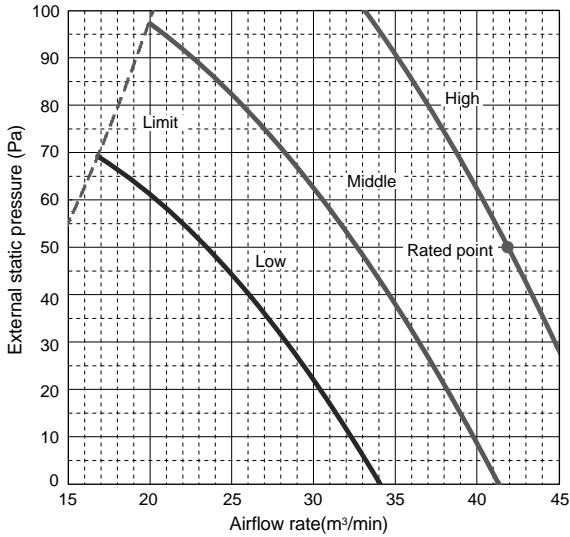
PEAD-RP125JA(L)
 (External static pressure 35Pa) 220-240V 50Hz



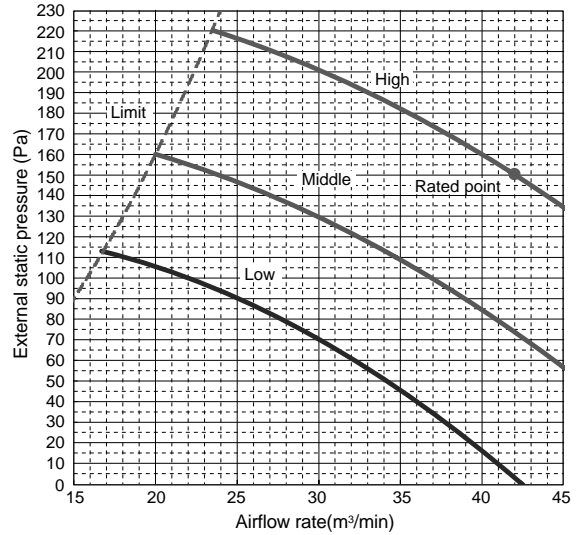
PEAD-RP125JA(L)
 (External static pressure 100Pa) 220-240V 50Hz



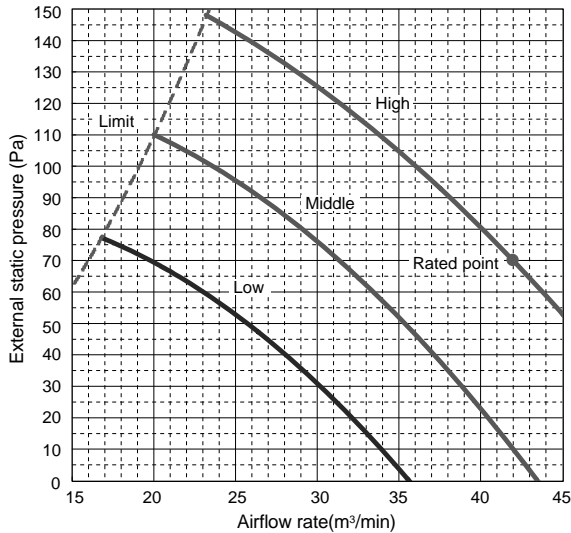
PEAD-RP125JA(L)
 (External static pressure 50Pa) 220-240V 50Hz



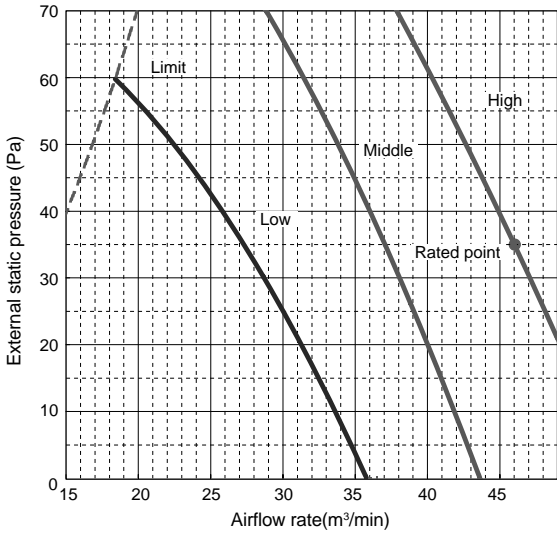
PEAD-RP125JA(L)
 (External static pressure 150Pa) 220-240V 50Hz



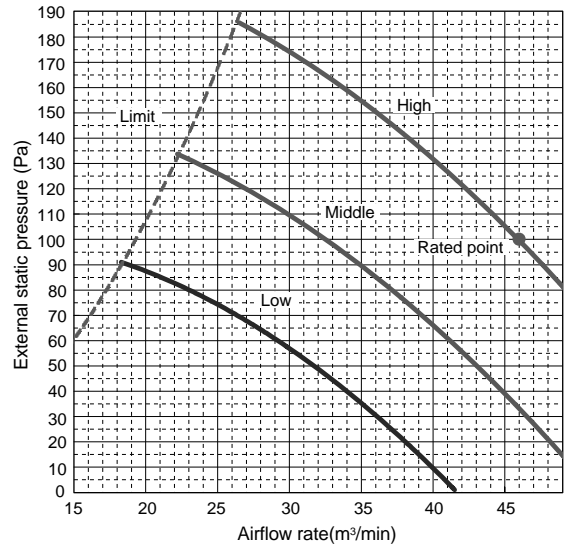
PEAD-RP125JA(L)
 (External static pressure 70Pa) 220-240V 50Hz



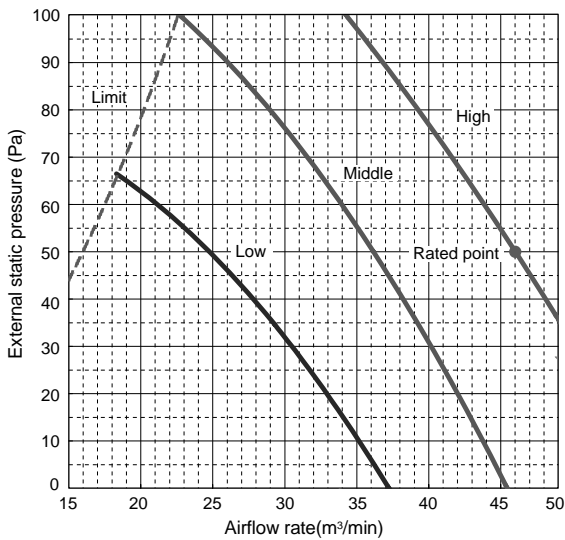
PEAD-RP140JA(L)
(External static pressure 35Pa) 220-240V 50Hz



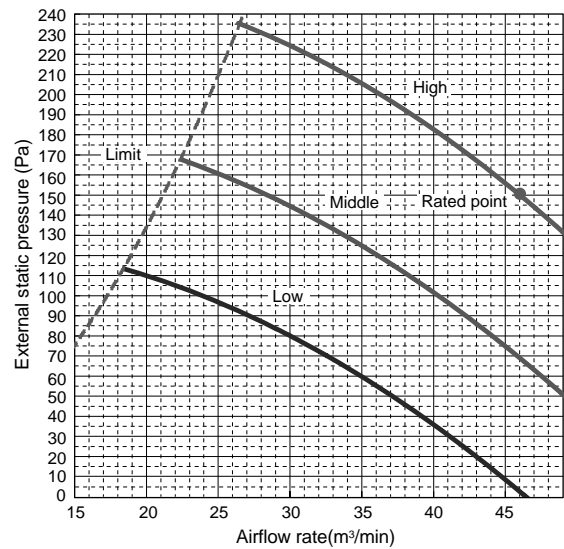
PEAD-RP140JA(L)
(External static pressure 100Pa) 220-240V 50Hz



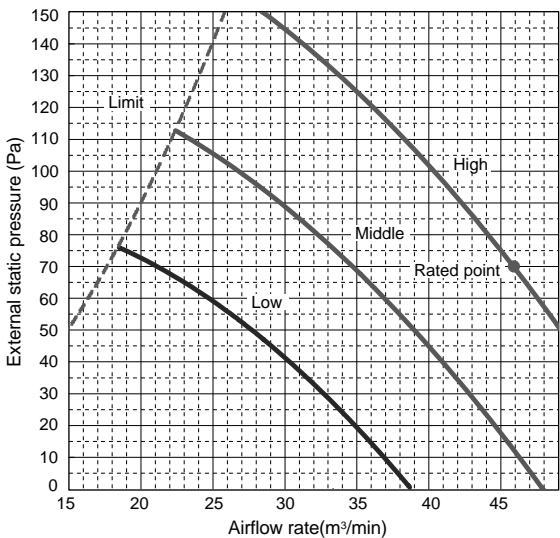
PEAD-RP140JA(L)
(External static pressure 50Pa) 220-240V 50Hz



PEAD-RP140JA(L)
(External static pressure 150Pa) 220-240V 50Hz

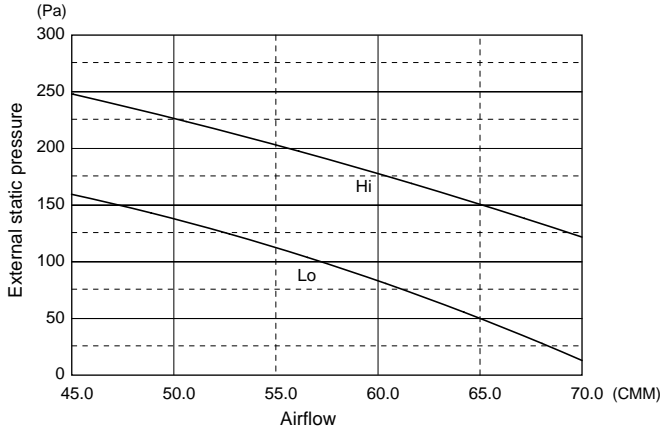


PEAD-RP140JA(L)
(External static pressure 70Pa) 220-240V 50Hz

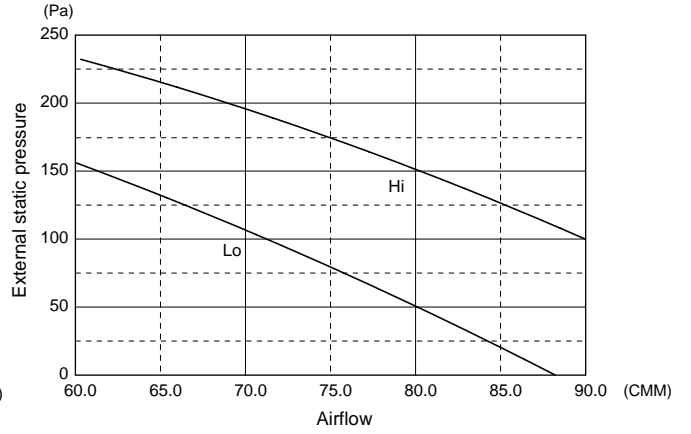


9-5. PEA-RP-GA Fan Performance Curve

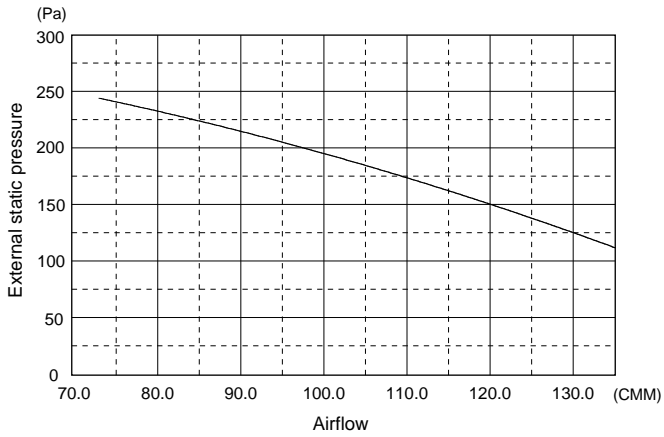
PEA-RP200GA
Fan Performance Curve 50Hz



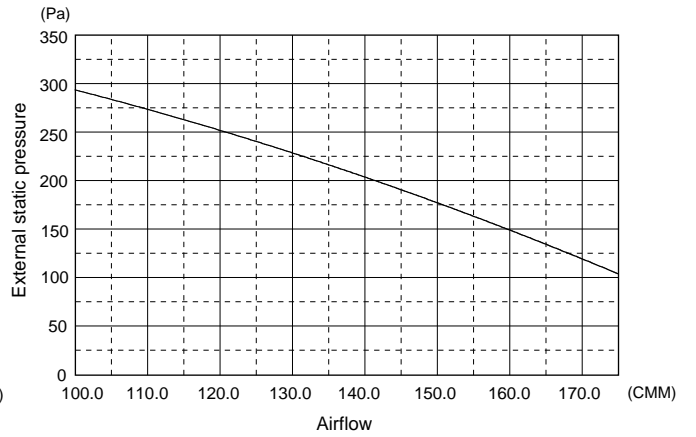
PEA-RP250GA
Fan Performance Curve 50Hz



PEA-RP400GA
Fan Performance Curve 50Hz



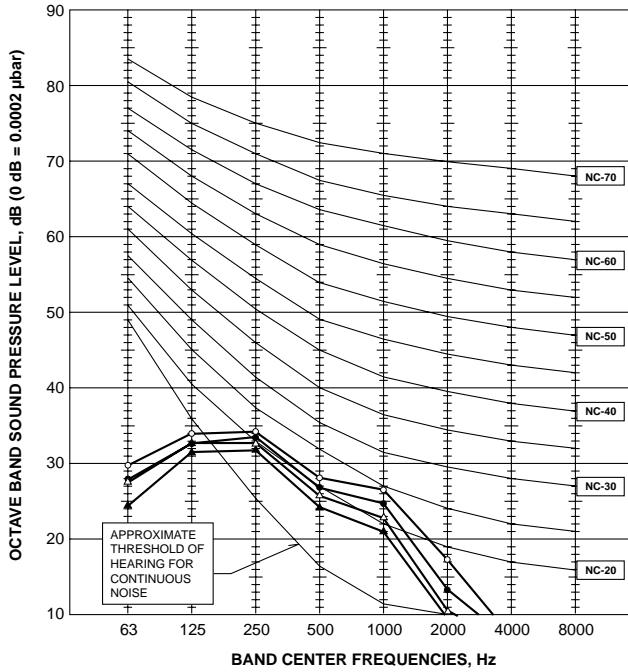
PEA-RP500GA
Fan Performance Curve 50Hz



10-1. INDOOR UNIT

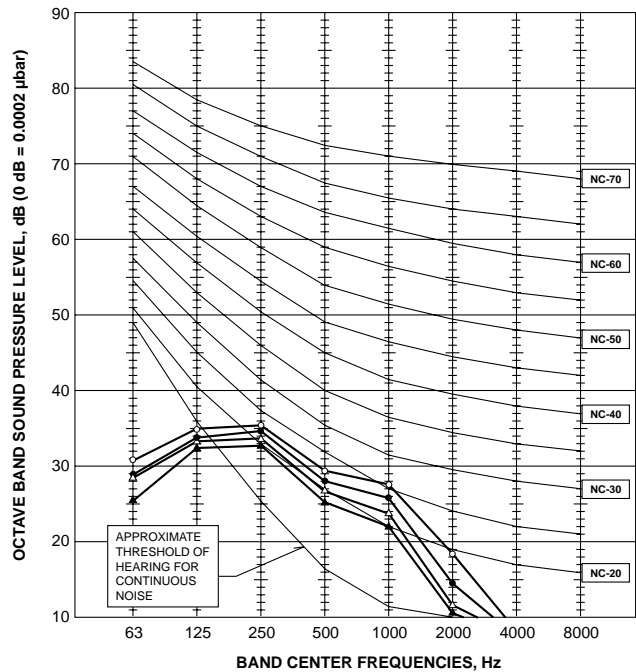
PLA-RP35BA

NOTCH	SPL(dB)	LINE
High	31	○—○
Medium1	29	●—●
Medium2	28	△—△
Low	27	▲—▲



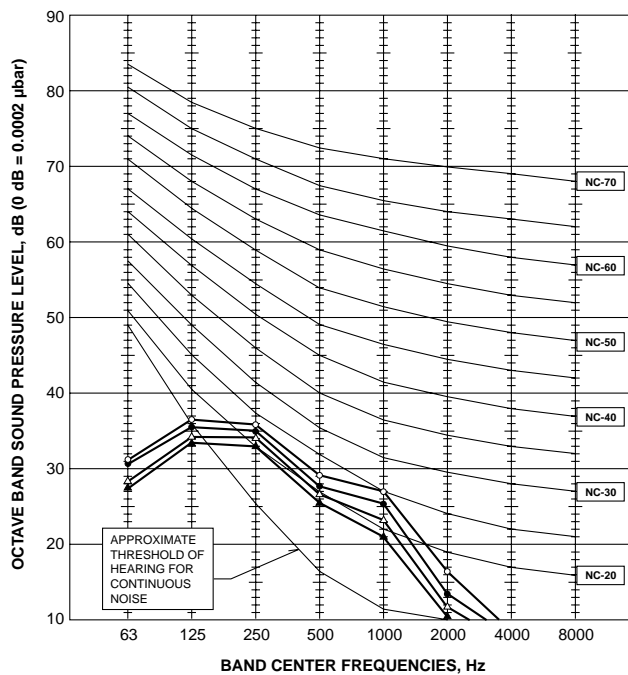
PLA-RP50BA

NOTCH	SPL(dB)	LINE
High	32	○—○
Medium1	31	●—●
Medium2	29	△—△
Low	28	▲—▲



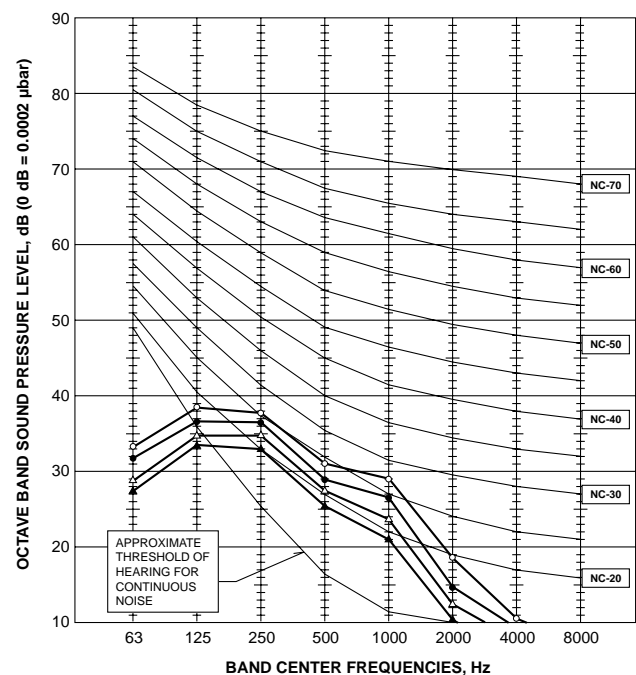
PLA-RP60BA

NOTCH	SPL(dB)	LINE
High	32	○—○
Medium1	31	●—●
Medium2	29	△—△
Low	28	▲—▲



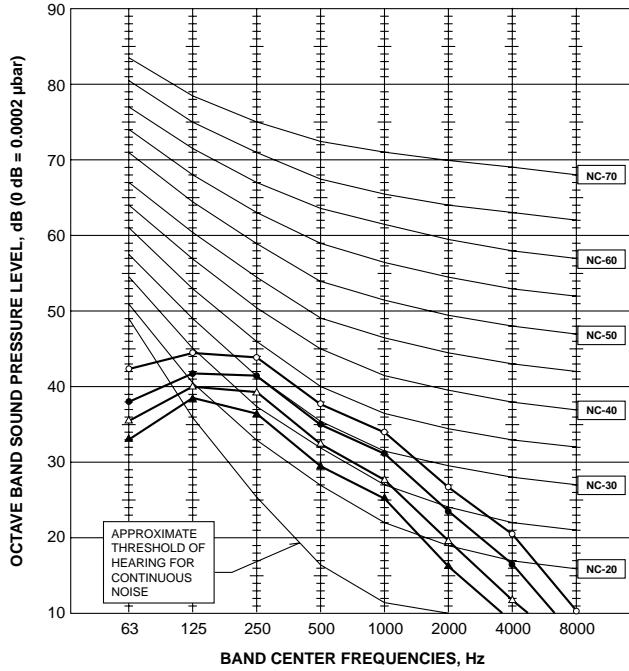
PLA-RP71BA
PLA-RP71BA2

NOTCH	SPL(dB)	LINE
High	34	○—○
Medium1	32	●—●
Medium2	30	△—△
Low	28	▲—▲



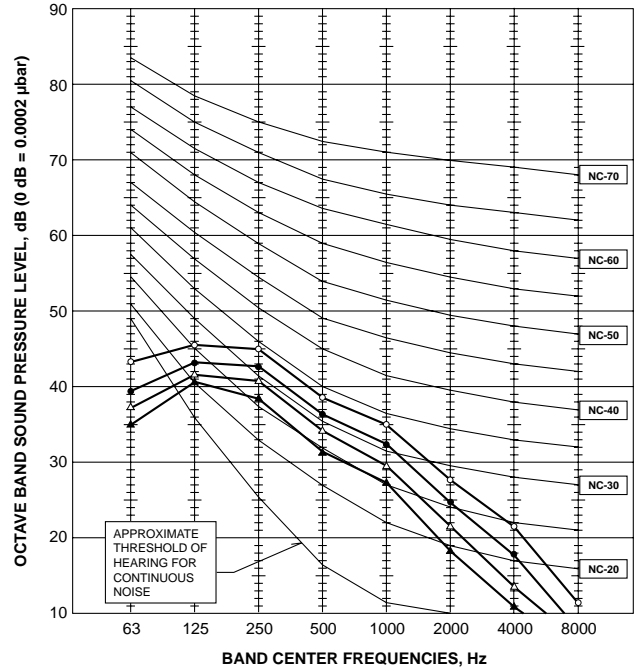
**PLA-RP100BA
PLA-RP100BA3**

NOTCH	SPL(dB)	LINE
High	40	○—○
Medium1	37	●—●
Medium2	34	△—△
Low	32	▲—▲



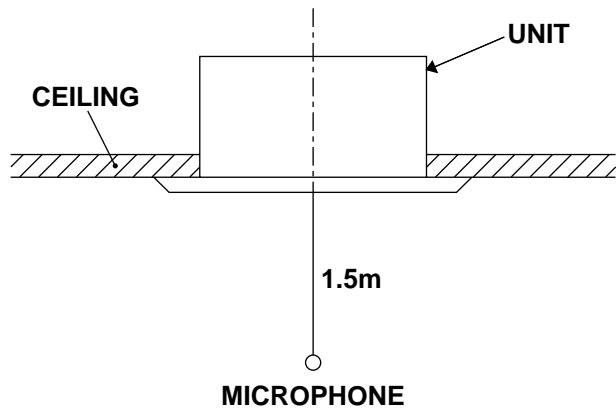
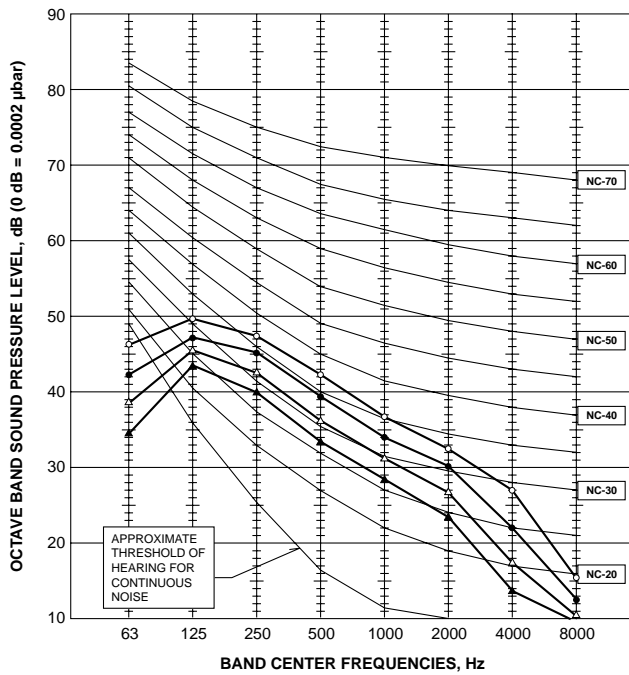
**PLA-RP125BA
PLA-RP125BA2**

NOTCH	SPL(dB)	LINE
High	41	○—○
Medium1	39	●—●
Medium2	36	△—△
Low	34	▲—▲



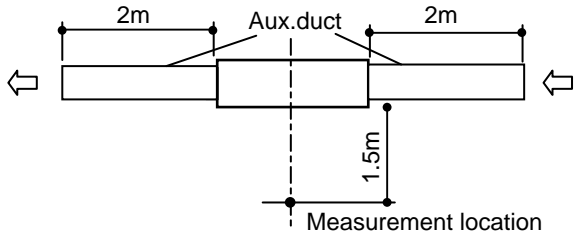
PLA-RP140BA2

NOTCH	SPL(dB)	LINE
High	44	○—○
Medium1	42	●—●
Medium2	39	△—△
Low	36	▲—▲



PEAD-RP-JA(L)

Ceiling concealed

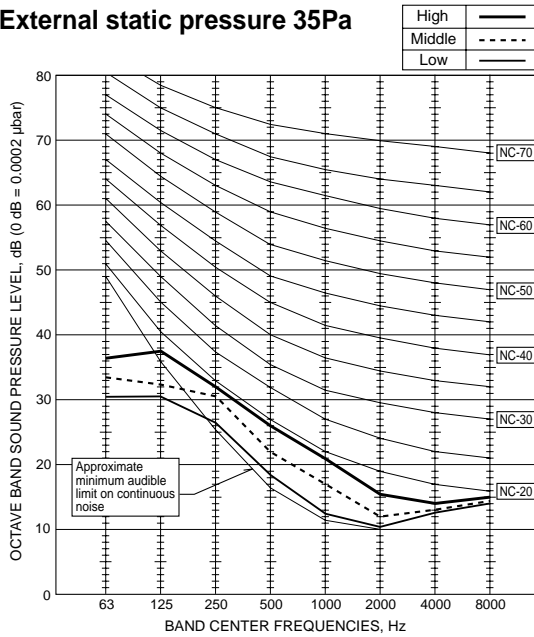


Noise level at anechoic room (Low-Middle-High) Unit: dB(A)

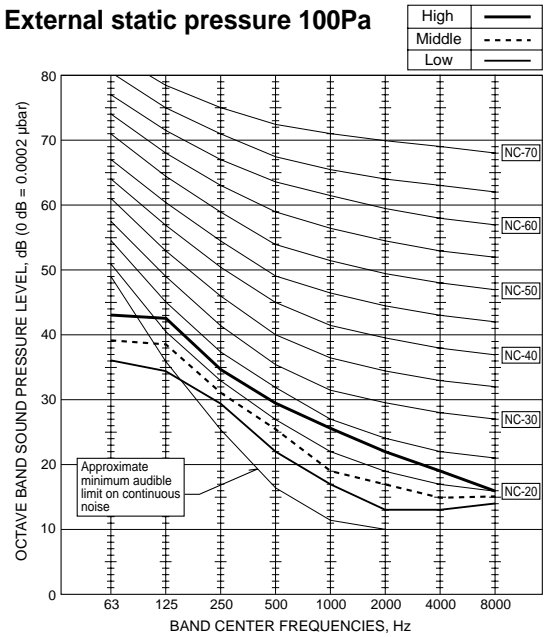
Model	External static pressure				
	35Pa	50Pa	70Pa	100Pa	150Pa
PEAD-RP35JA(L)	23-26-29	23-27-30	24-28-31	26-29-33	29-33-37
PEAD-RP50JA(L)	25-30-34	26-31-35	28-32-36	29-33-37	31-35-39
PEAD-RP60JA(L)	25-28-32	25-29-33	26-30-34	27-31-35	29-34-38
PEAD-RP71JA(L)	25-29-34	26-30-34	27-31-35	28-32-36	30-35-39
PEAD-RP100JA(L)	28-33-38	29-34-38	30-35-39	31-36-40	34-40-43
PEAD-RP125JA(L)	31-36-40	33-36-40	33-37-41	34-39-42	37-41-45
PEAD-RP140JA(L)	33-37-43	34-38-43	34-39-44	36-40-45	38-42-46

PEAD-RP35JA(L)

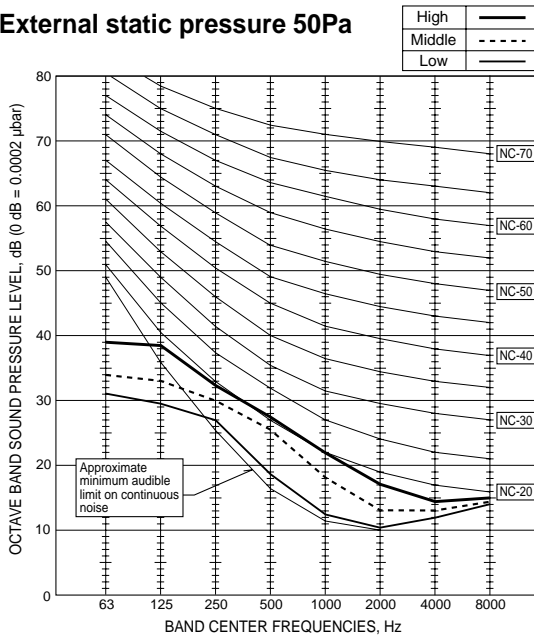
External static pressure 35Pa



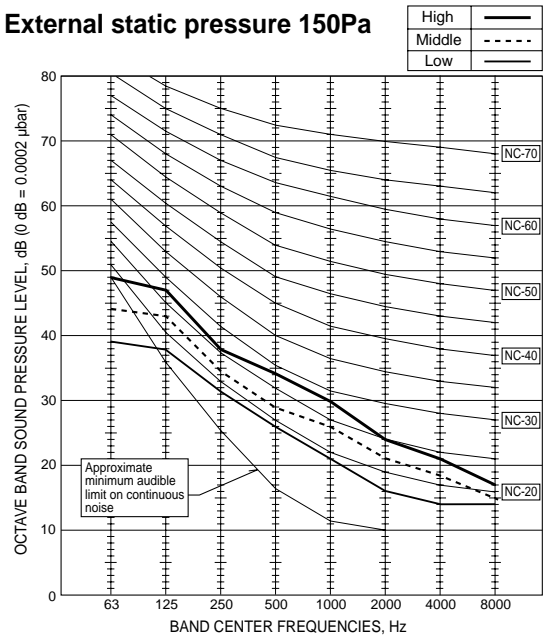
External static pressure 100Pa



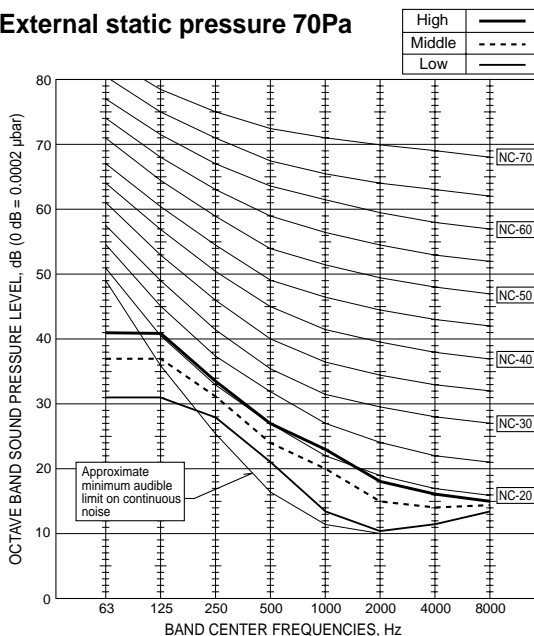
External static pressure 50Pa



External static pressure 150Pa

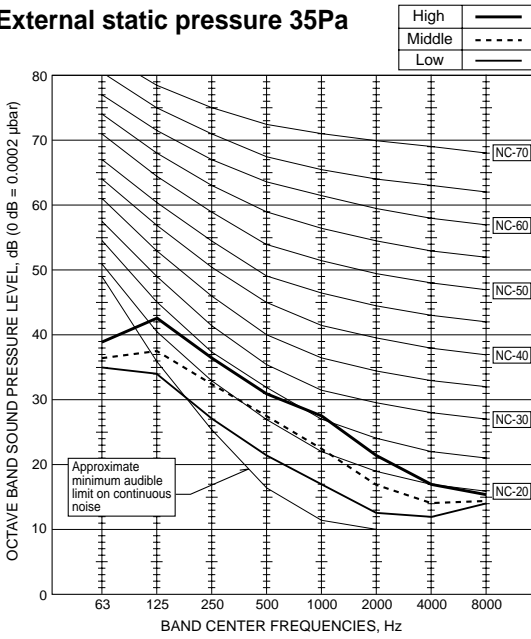


External static pressure 70Pa

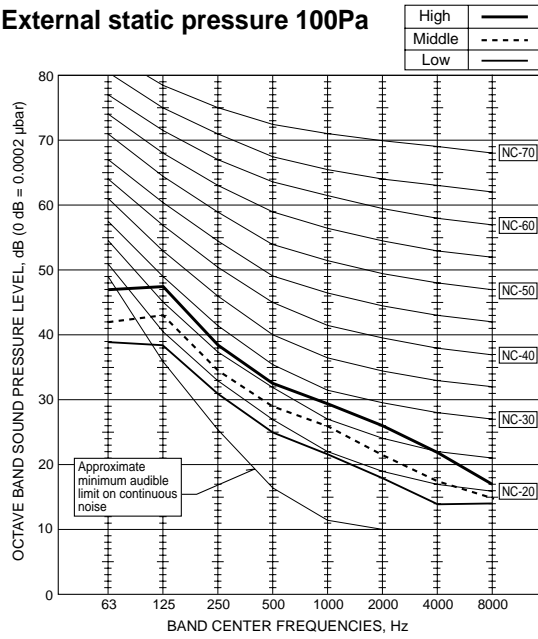


PEAD-RP50JA(L)

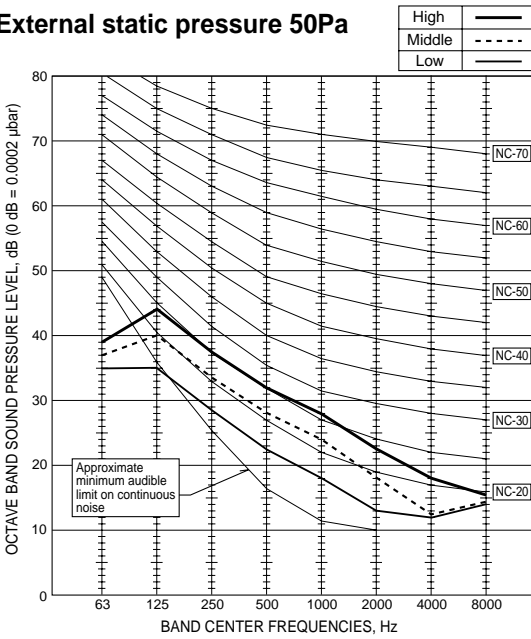
External static pressure 35Pa



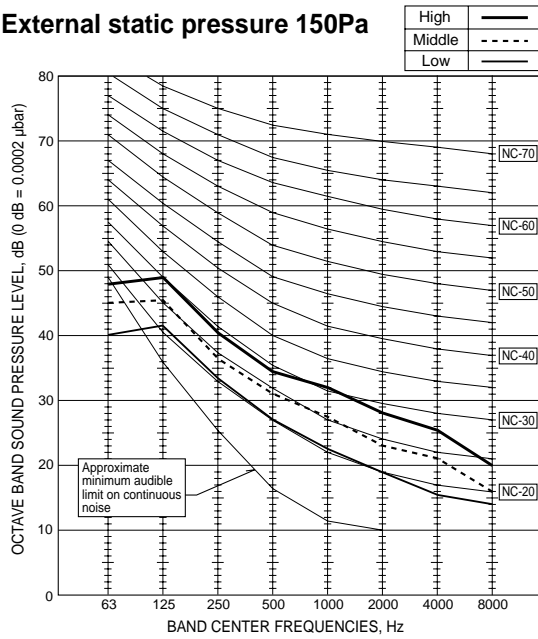
External static pressure 100Pa



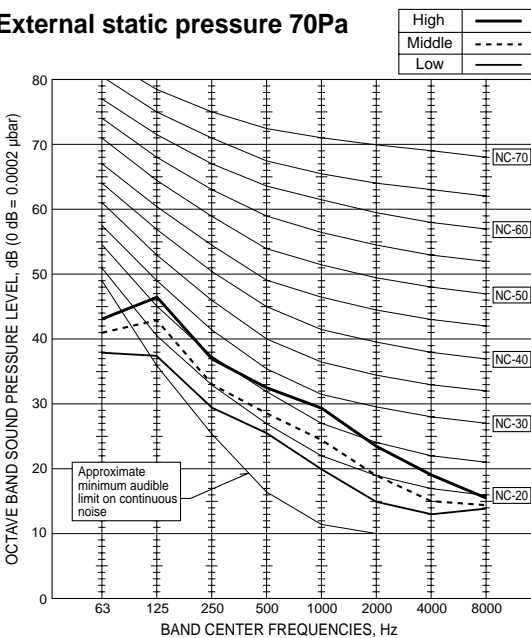
External static pressure 50Pa



External static pressure 150Pa

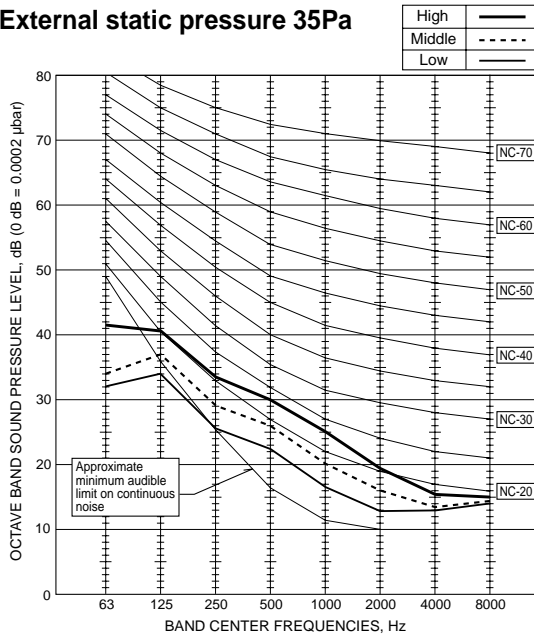


External static pressure 70Pa

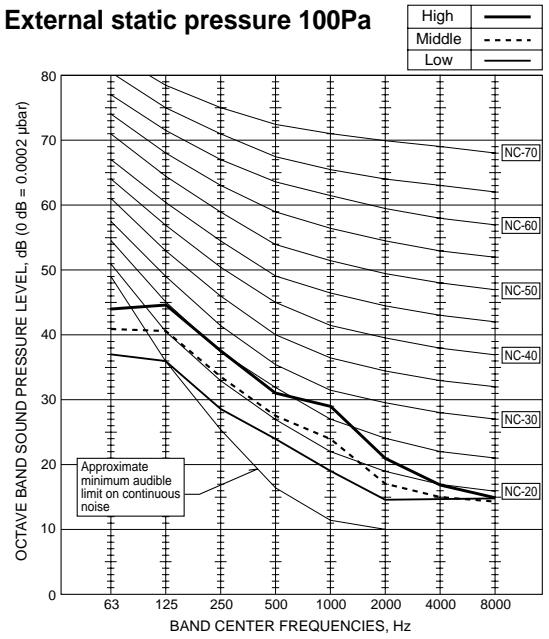


PEAD-RP60JA(L)

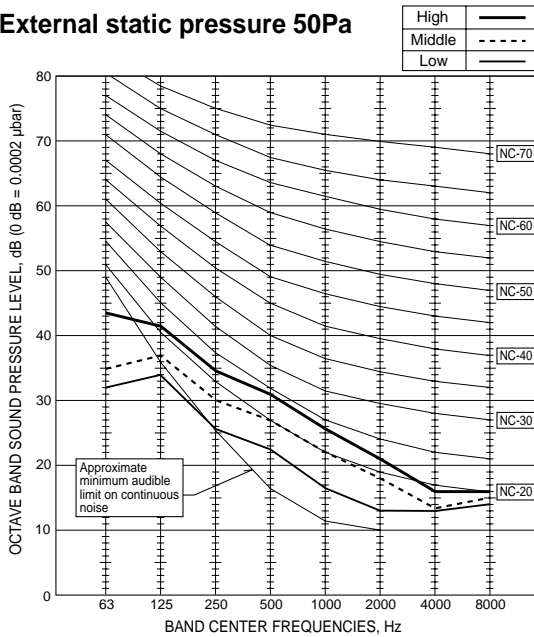
External static pressure 35Pa



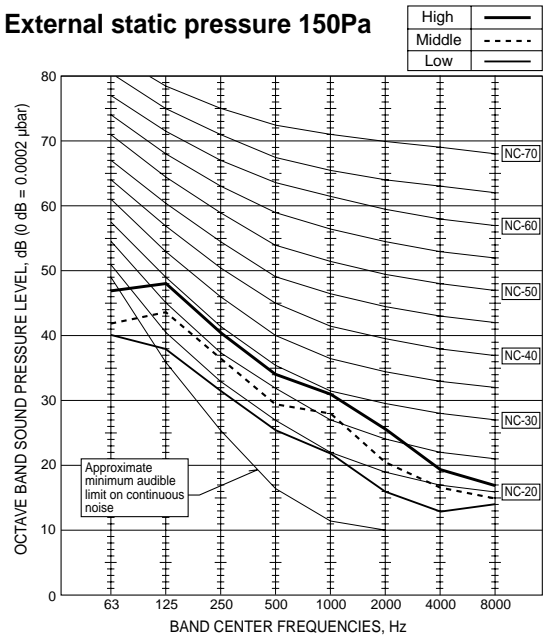
External static pressure 100Pa



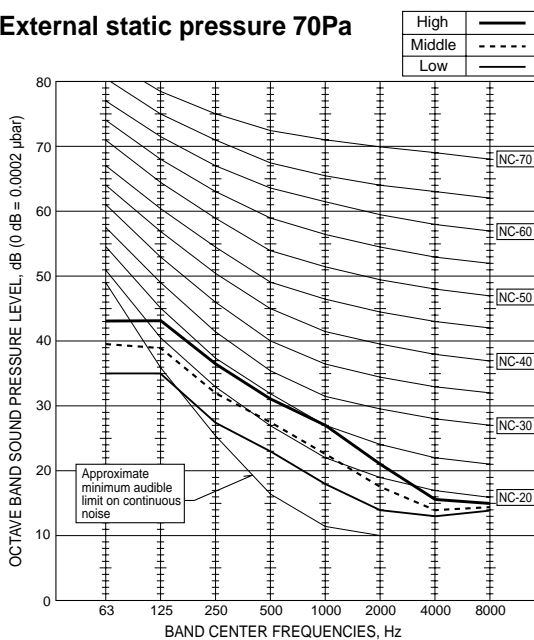
External static pressure 50Pa



External static pressure 150Pa

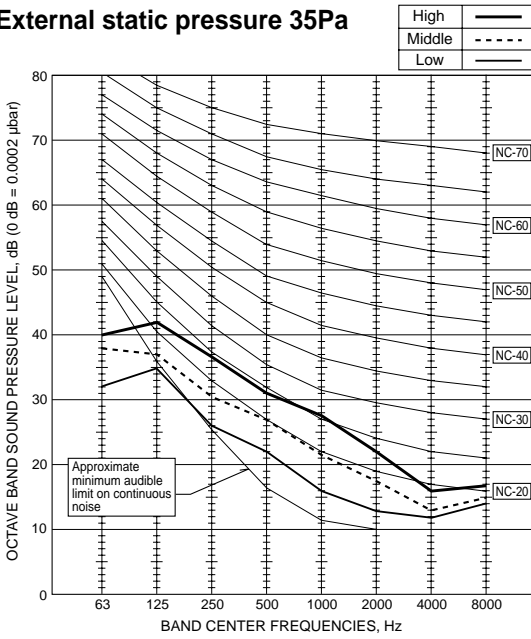


External static pressure 70Pa

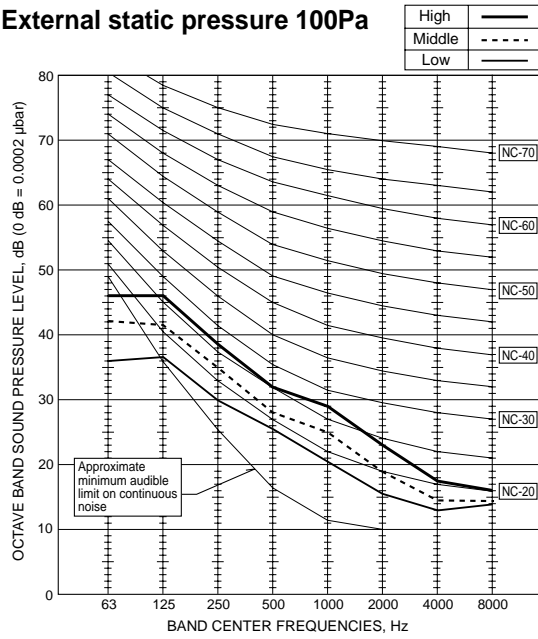


PEAD-RP71JA(L)

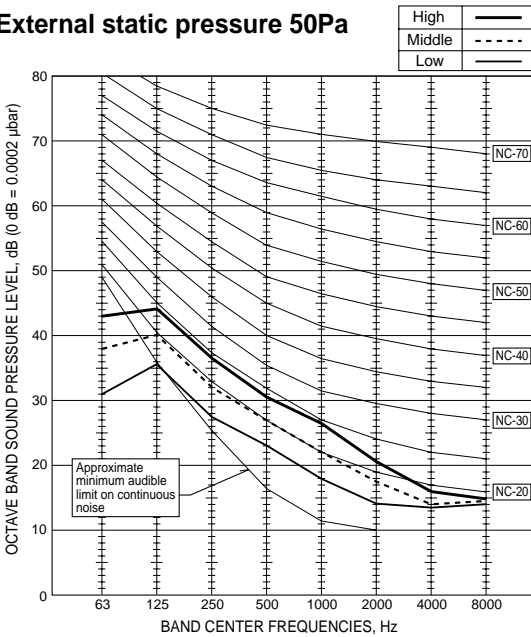
External static pressure 35Pa



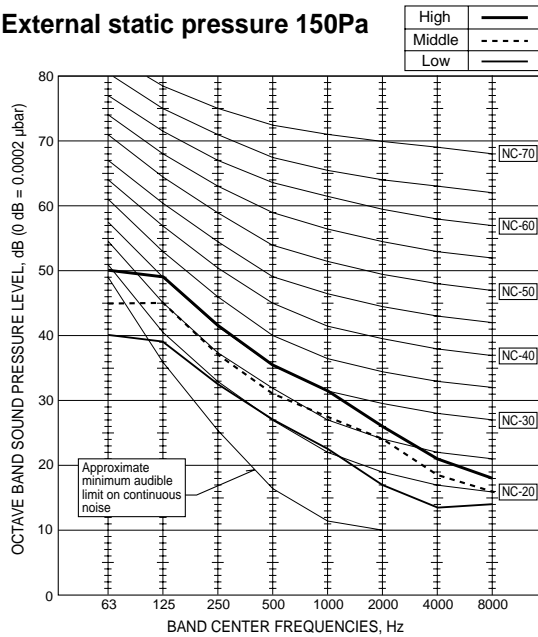
External static pressure 100Pa



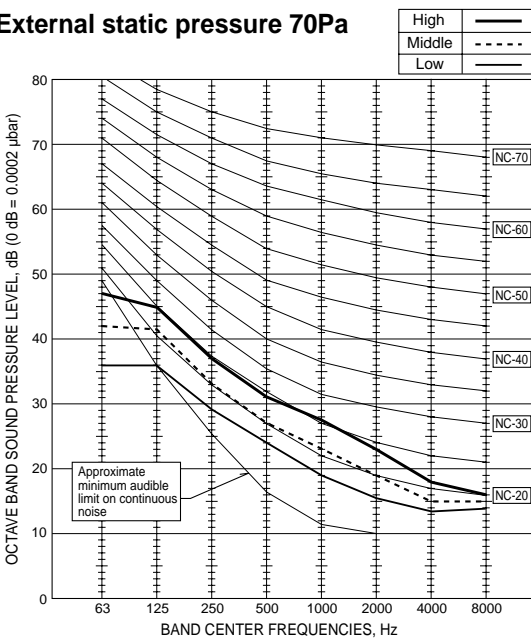
External static pressure 50Pa



External static pressure 150Pa

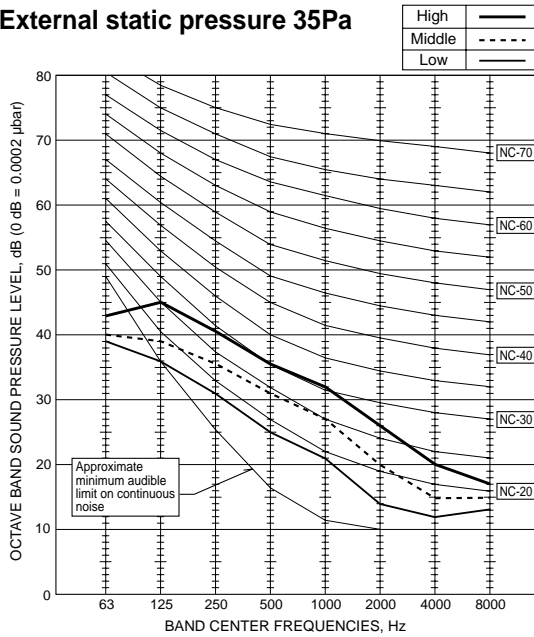


External static pressure 70Pa

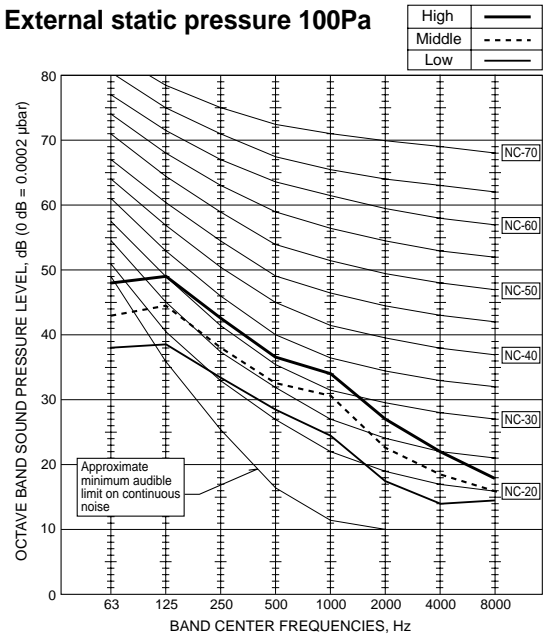


PEAD-RP100JA(L)

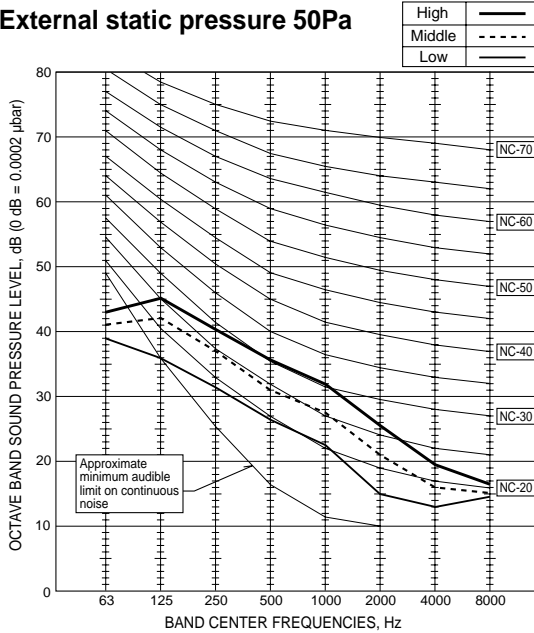
External static pressure 35Pa



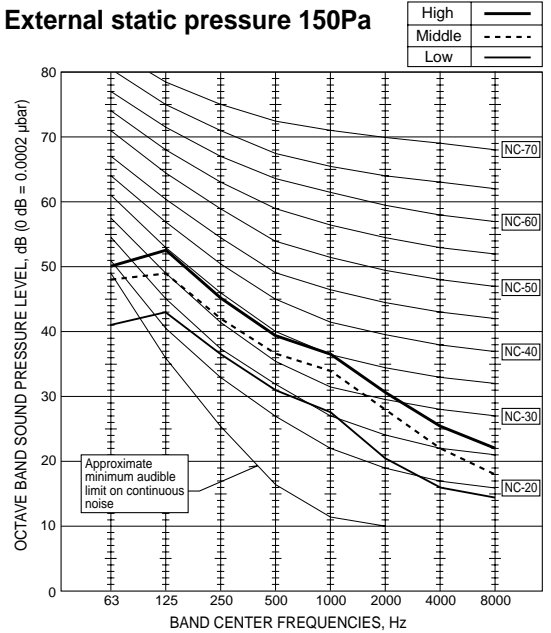
External static pressure 100Pa



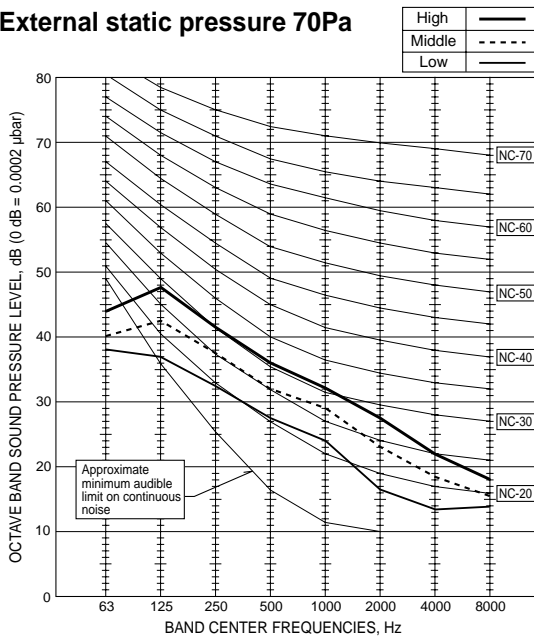
External static pressure 50Pa



External static pressure 150Pa

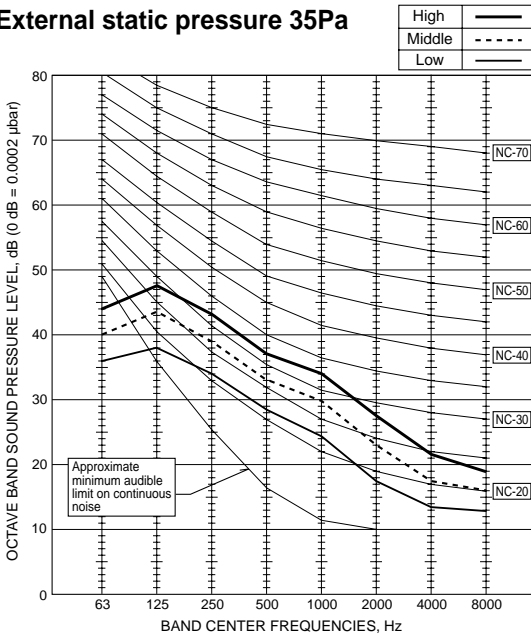


External static pressure 70Pa

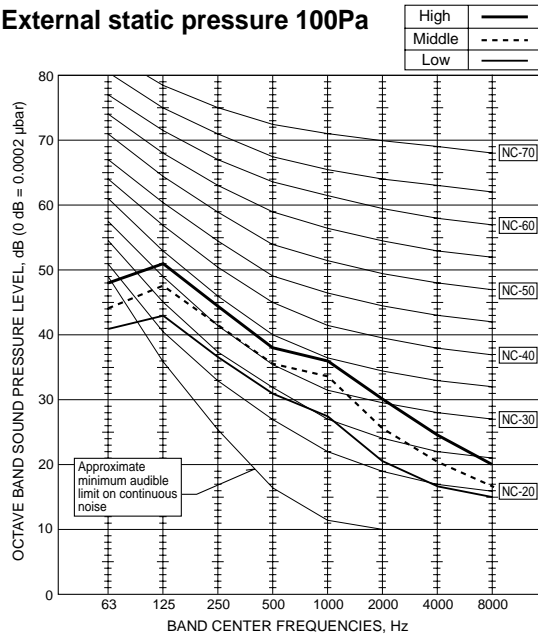


PEAD-RP125JA(L)

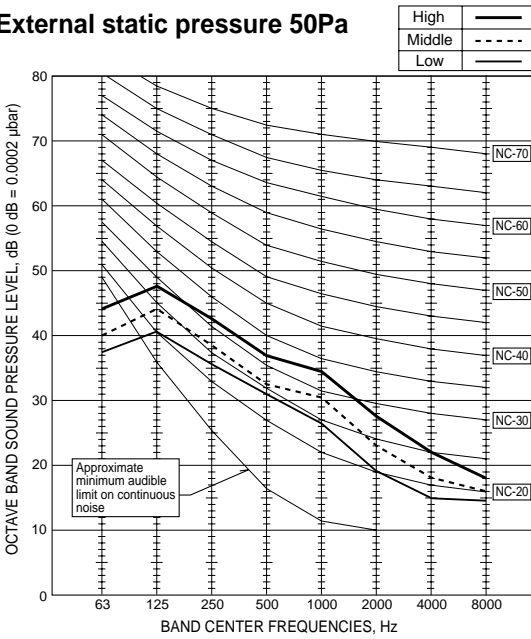
External static pressure 35Pa



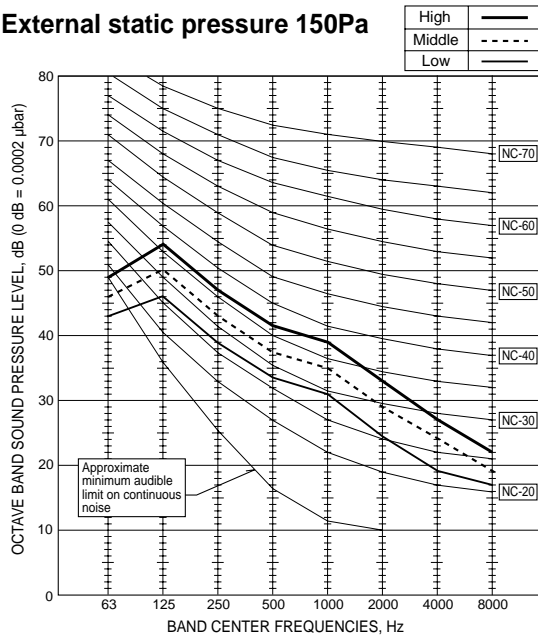
External static pressure 100Pa



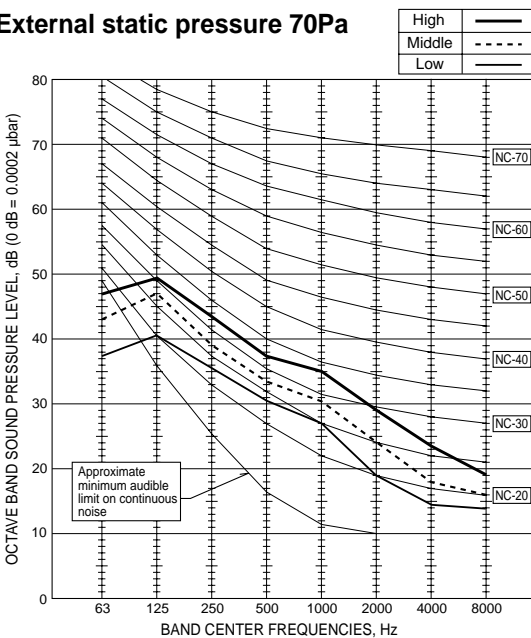
External static pressure 50Pa



External static pressure 150Pa

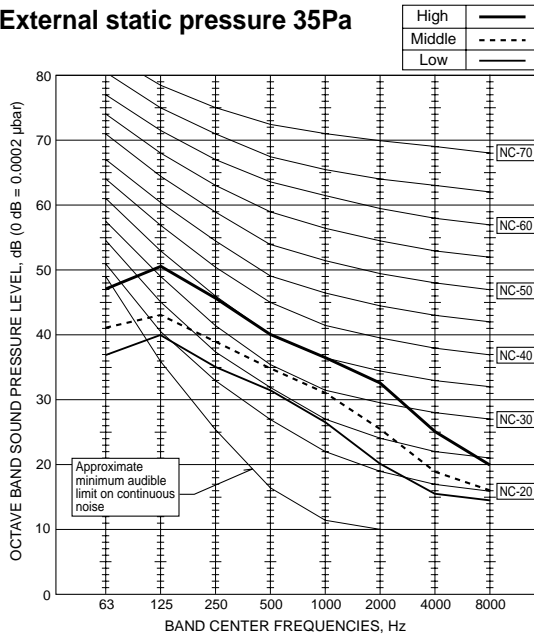


External static pressure 70Pa

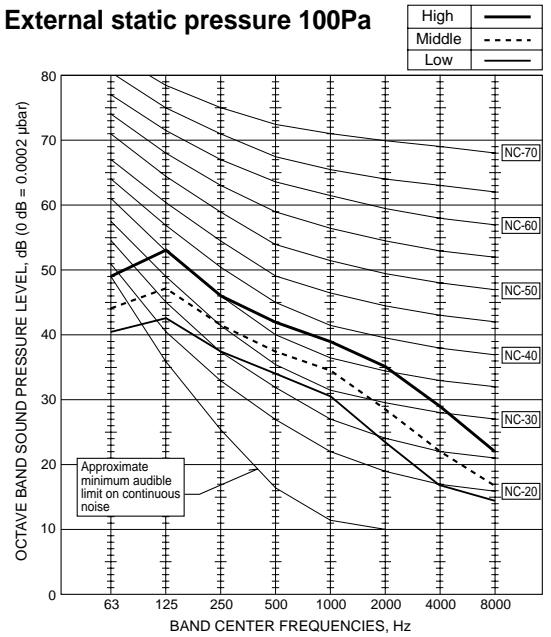


PEAD-RP140JA(L)

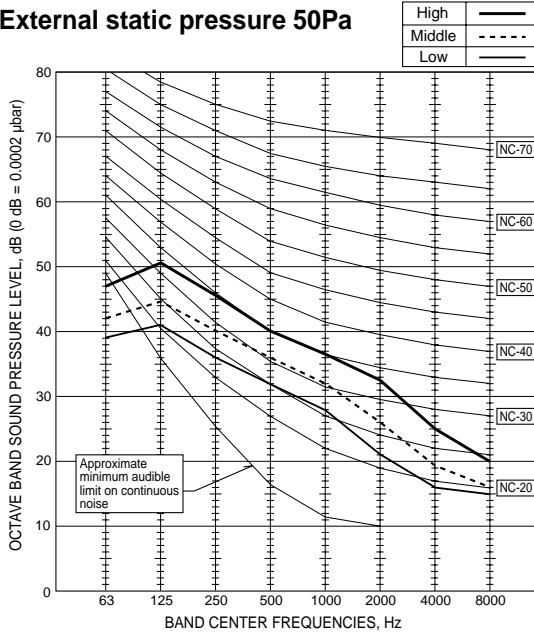
External static pressure 35Pa



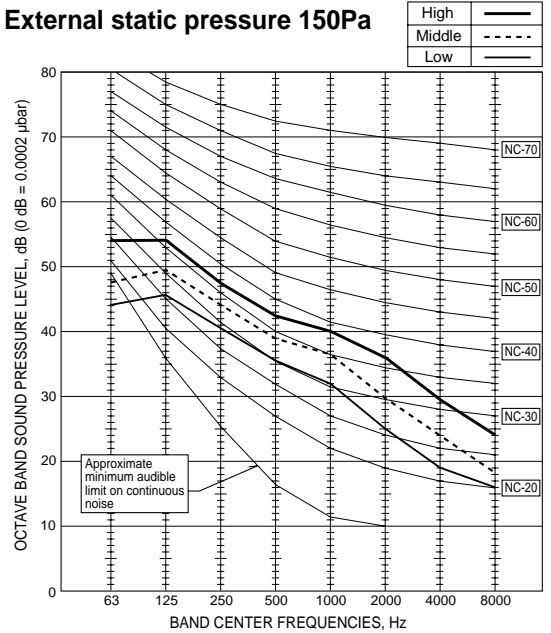
External static pressure 100Pa



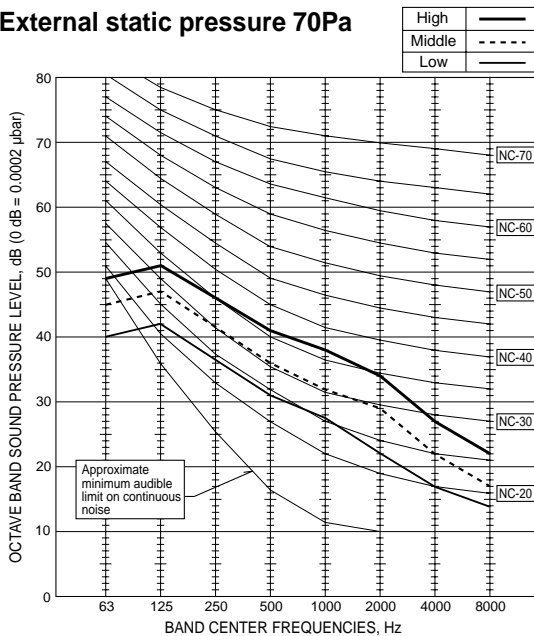
External static pressure 50Pa



External static pressure 150Pa



External static pressure 70Pa



SOUND LEVELS

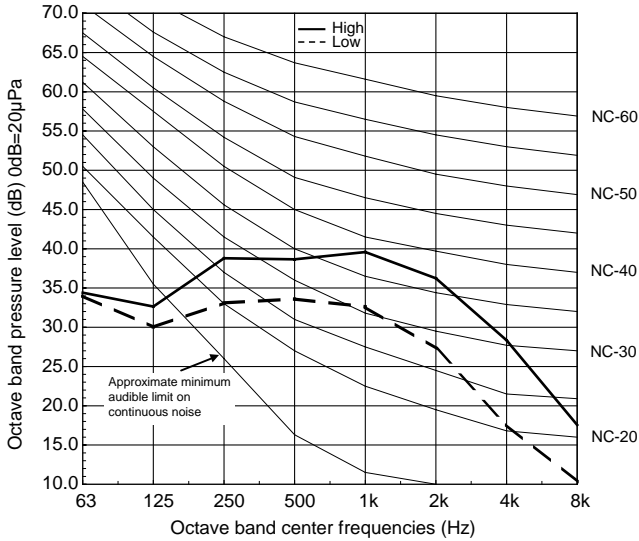
Low-Middle-High

Model	Sound level dB (A)
PKA-RP35, 50HAL	36 - 40 - 43
PKA-RP60, 71KAL	39 - 42 - 45
PKA-RP100KAL	41 - 45 - 49

PKA-RP35HAL PKA-RP50HAL

External static pressure : 0Pa

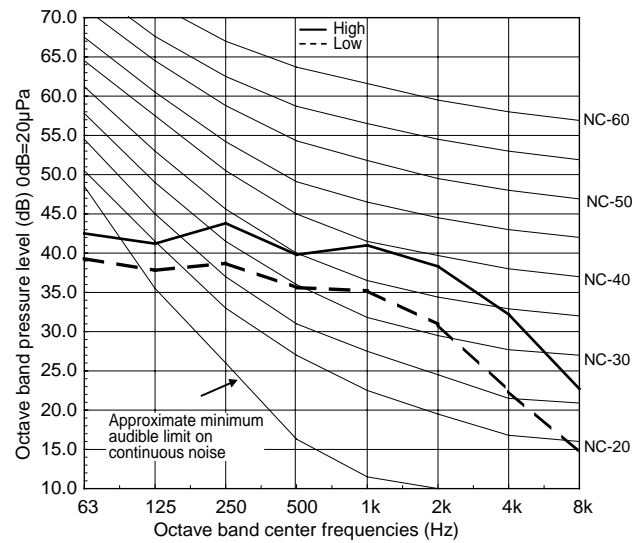
Power source : 220, 230, 240V, 50Hz



PKA-RP60KAL PKA-RP71KAL

External static pressure : 0Pa

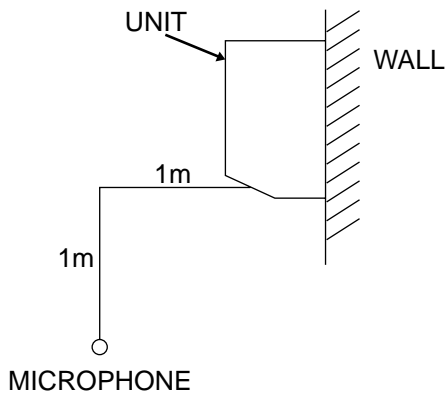
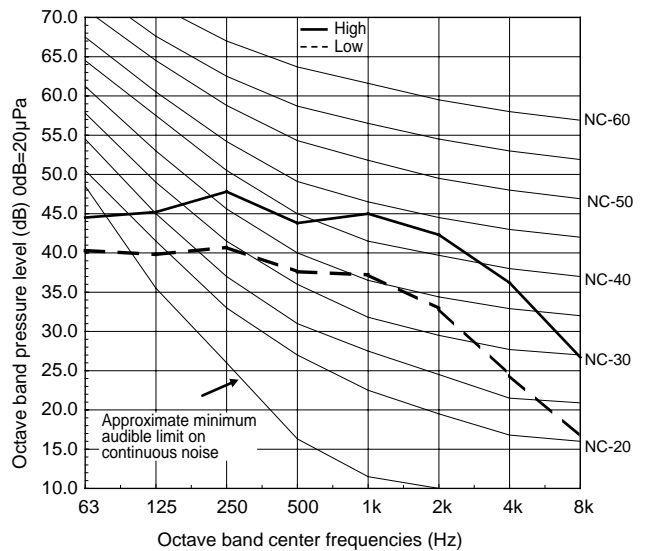
Power source : 220, 230, 240V, 50Hz



PKA-RP100KAL

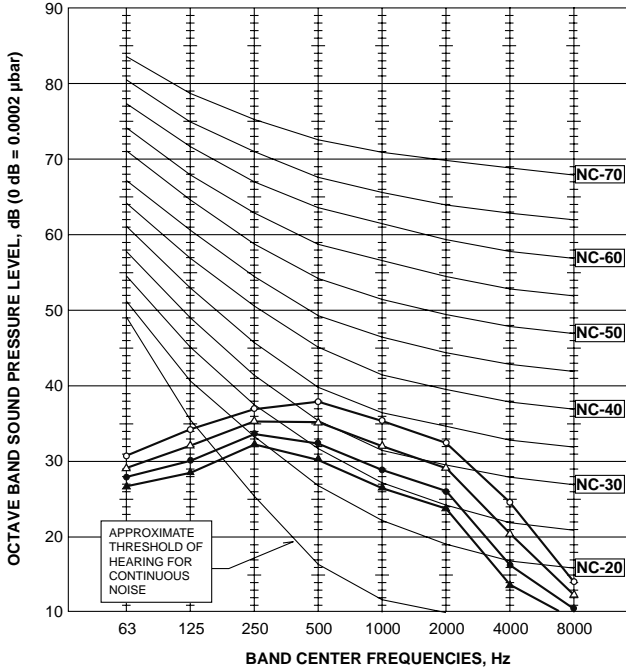
External static pressure : 0Pa

Power source : 220, 230, 240V, 50Hz



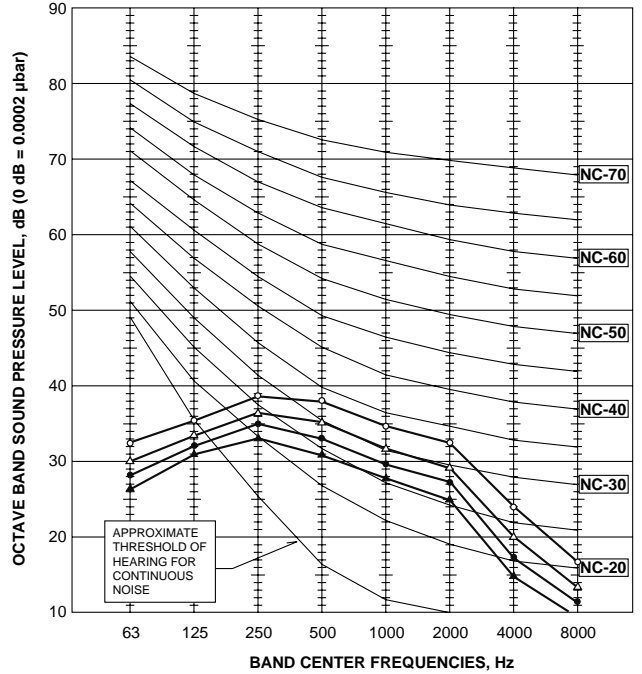
PCA-RP50KA

NOTCH	SPL(dB)	LINE
High	40	○—○
Medium1	37	△—△
Medium2	34	●—●
Low	32	▲—▲



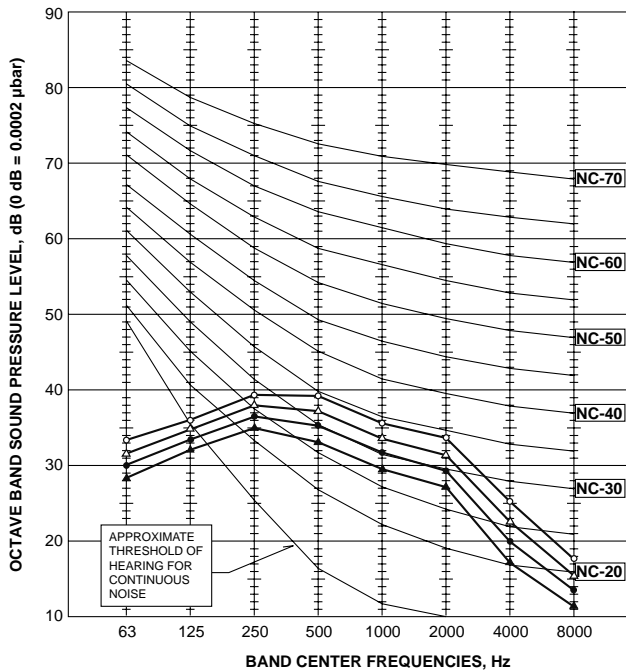
PCA-RP60KA

NOTCH	SPL(dB)	LINE
High	40	○—○
Medium1	37	△—△
Medium2	35	●—●
Low	33	▲—▲



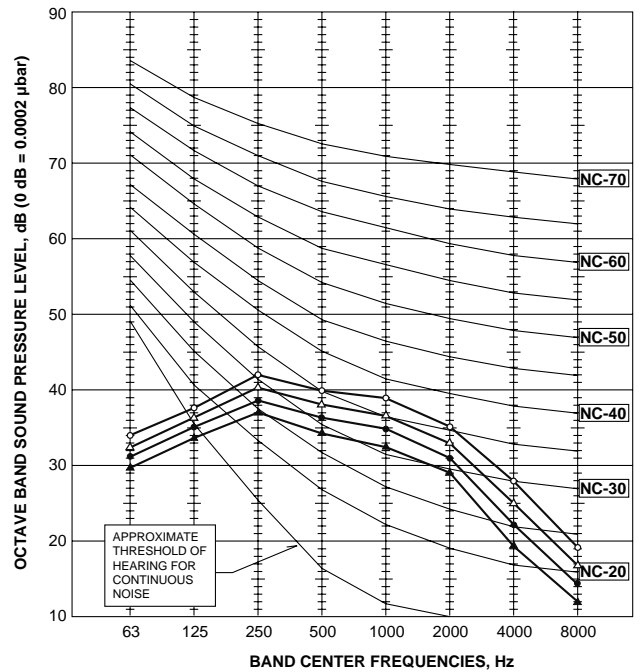
PCA-RP71KA

NOTCH	SPL(dB)	LINE
High	41	○—○
Medium1	39	△—△
Medium2	37	●—●
Low	35	▲—▲



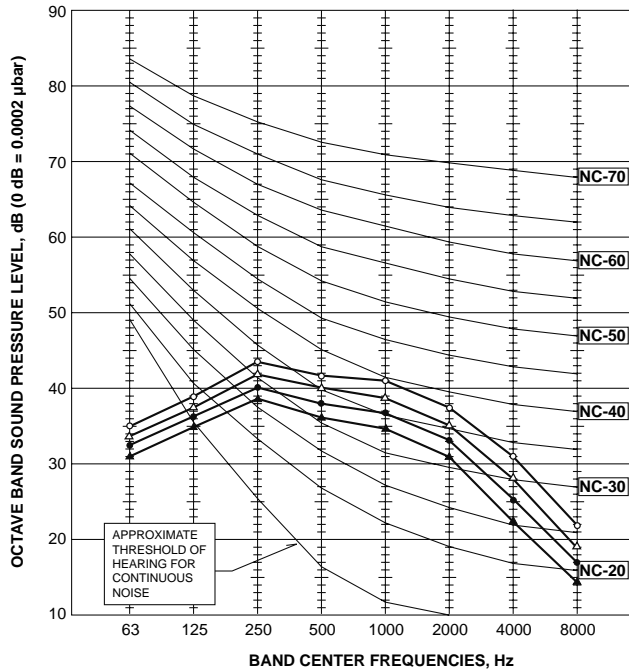
PCA-RP100KA

NOTCH	SPL(dB)	LINE
High	43	○—○
Medium1	41	△—△
Medium2	39	●—●
Low	37	▲—▲



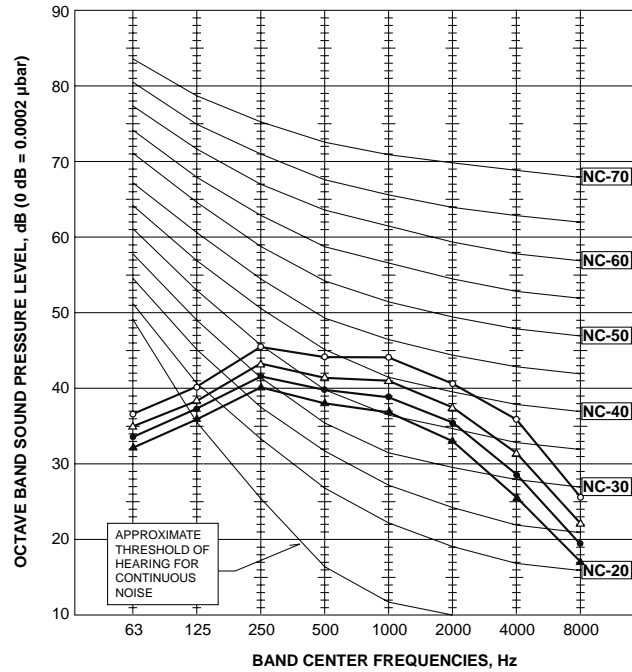
PCA-RP125KA

NOTCH	SPL(dB)	LINE
High	45	○—○
Medium1	43	△—△
Medium2	41	●—●
Low	39	▲—▲



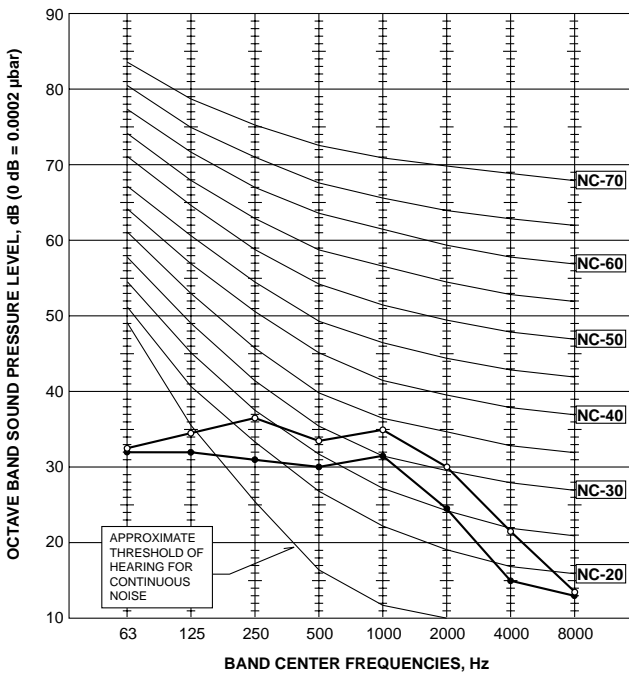
PCA-RP140KA

NOTCH	SPL(dB)	LINE
High	48	○—○
Medium1	45	△—△
Medium2	43	●—●
Low	41	▲—▲



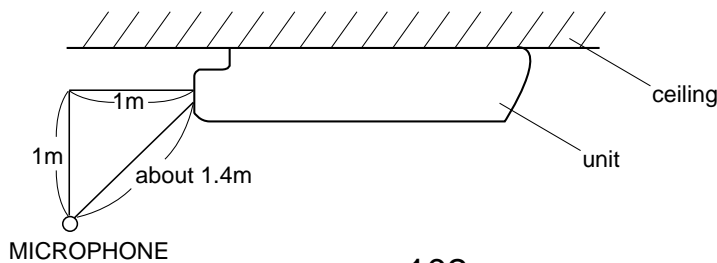
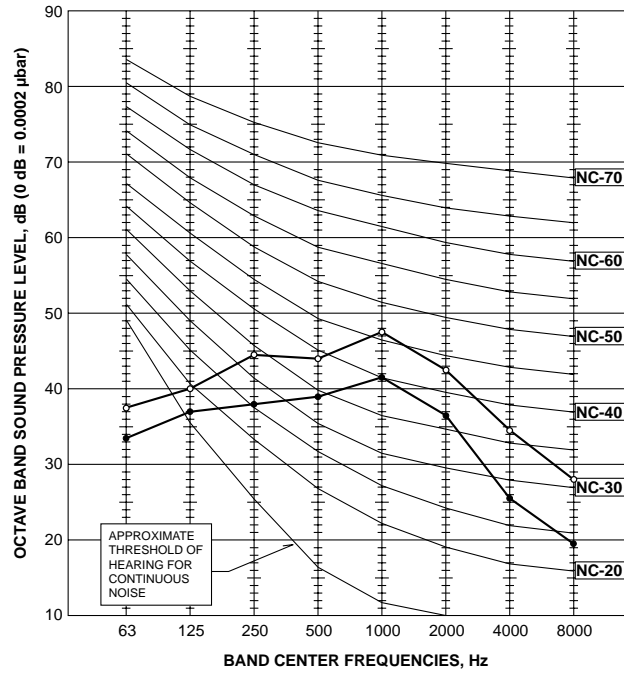
PCA-RP71HA

NOTCH	SPL(dB)	LINE
High	38	○—○
Low	34	●—●



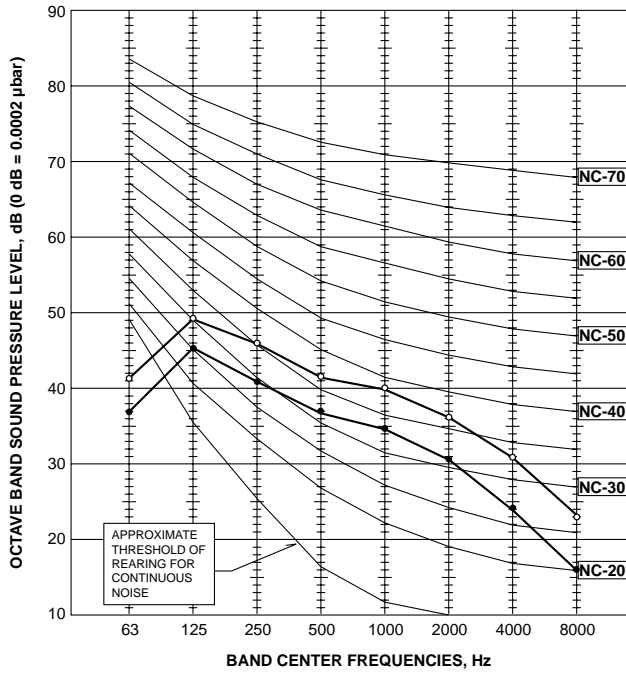
PCA-RP125HA

NOTCH	SPL(dB)	LINE
High	50	○—○
Low	44	●—●



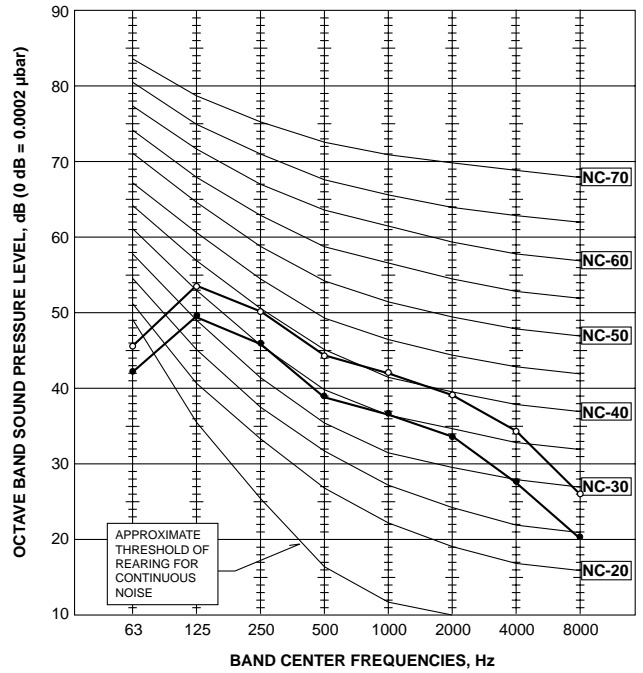
PSA-RP71GA

NOTCH	SPL(dB)	LINE
High	45	○—○
Low	40	●—●



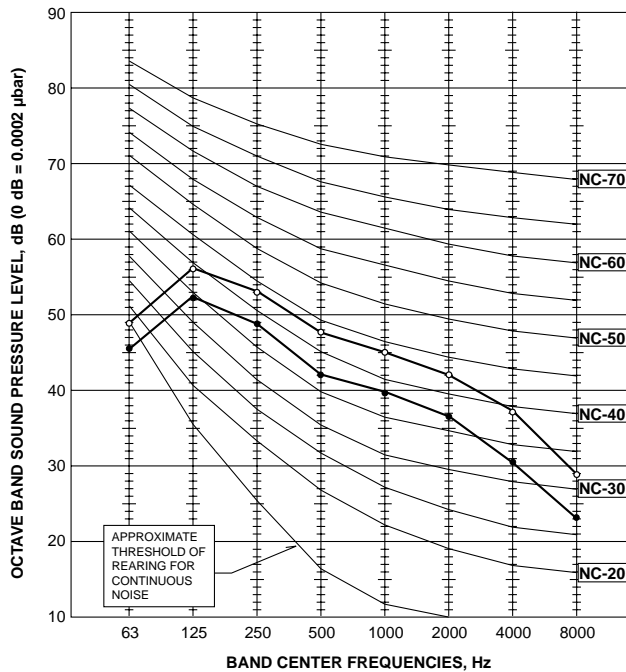
PSA-RP100GA

NOTCH	SPL(dB)	LINE
High	49	○—○
Low	44	●—●



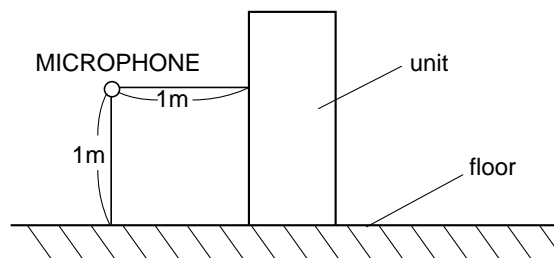
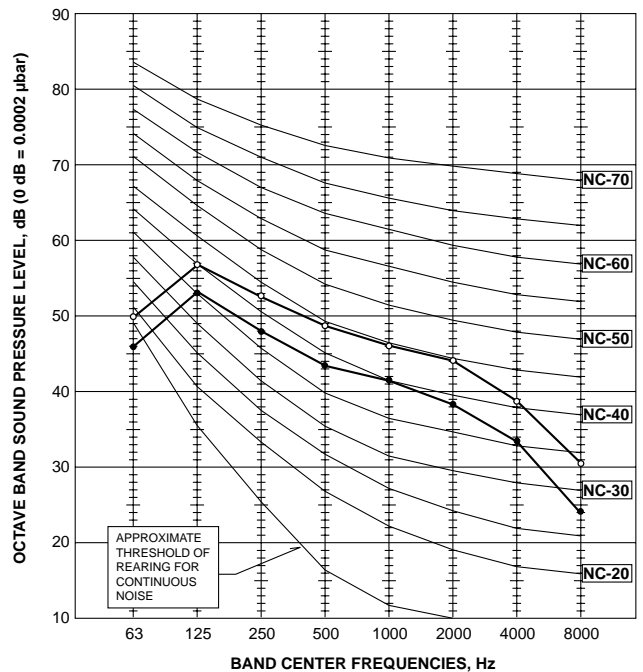
PSA-RP125GA

NOTCH	SPL(dB)	LINE
High	51	○—○
Low	46	●—●

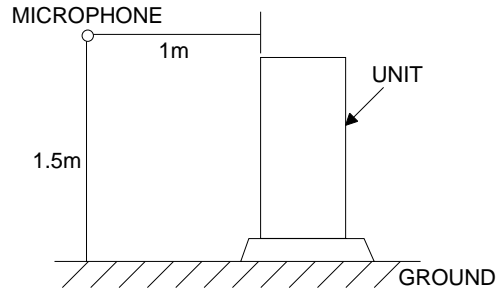


PSA-RP140GA

NOTCH	SPL(dB)	LINE
High	52	○—○
Low	47	●—●

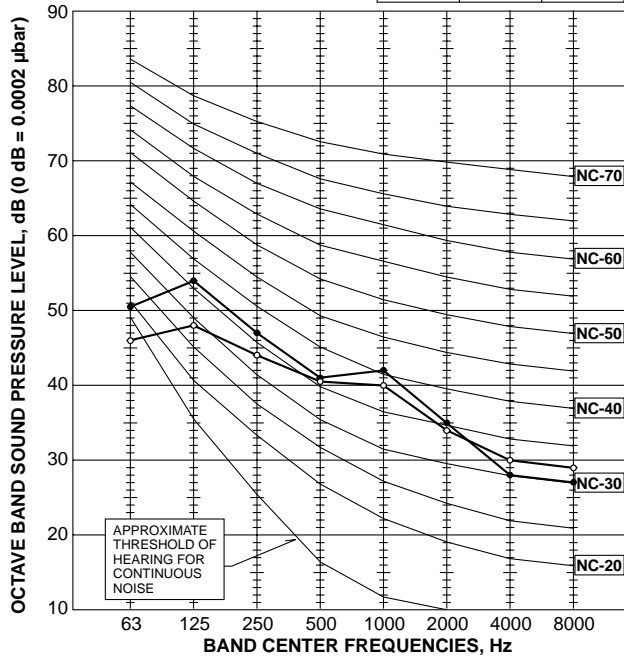


10-2. OUTDOOR UNIT



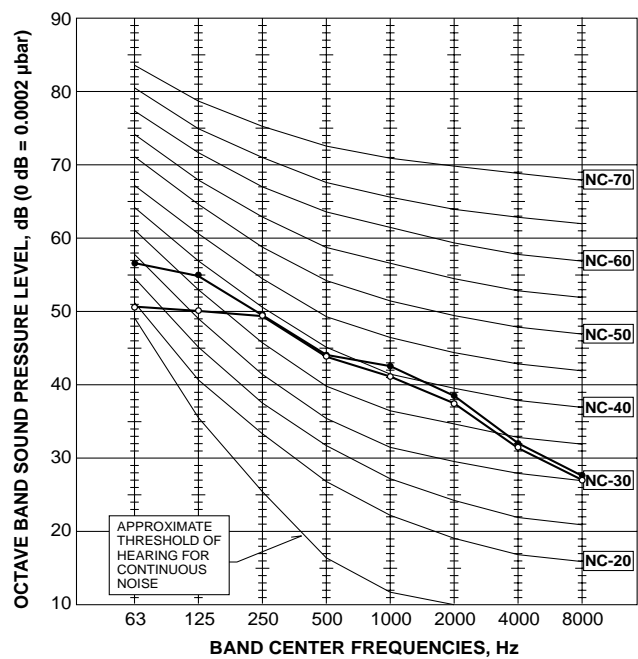
PUHZ-RP35VHA4 PUHZ-RP50VHA4

MODE	SPL(dB)	LINE
COOLING	44	○—○
HEATING	46	●—●



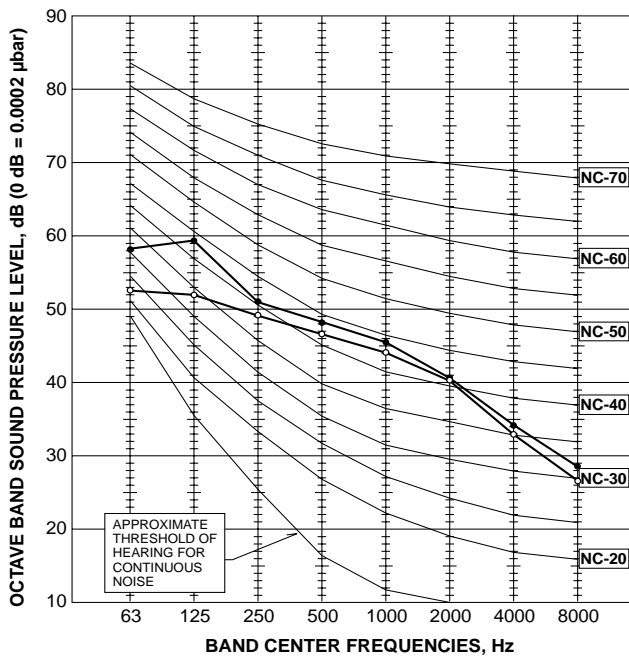
PUHZ-RP60VHA4 PUHZ-RP71VHA4

MODE	SPL(dB)	LINE
COOLING	47	○—○
HEATING	48	●—●



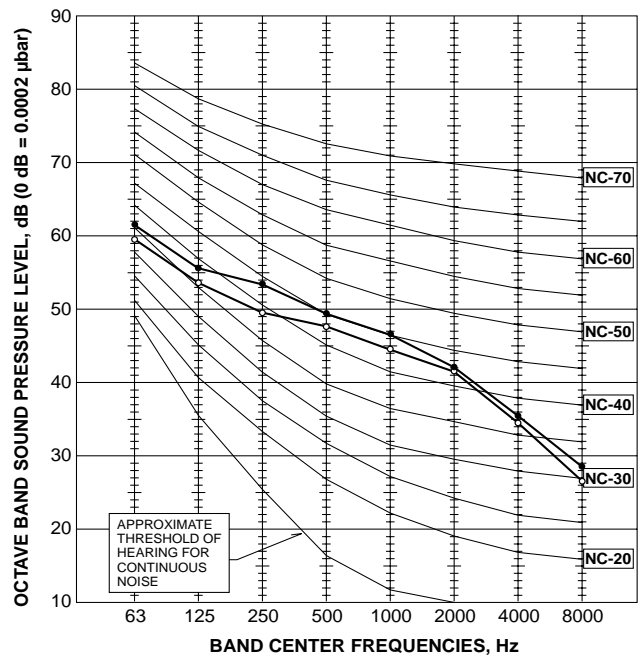
PUHZ-RP100VKA PUHZ-RP100YKA

MODE	SPL(dB)	LINE
COOLING	49	○—○
HEATING	51	●—●



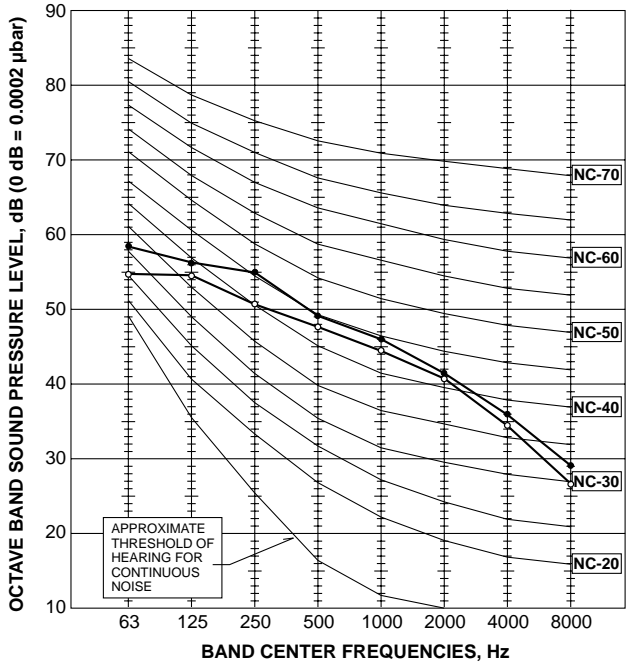
PUHZ-RP125VKA PUHZ-RP125YKA

MODE	SPL(dB)	LINE
COOLING	50	○—○
HEATING	52	●—●



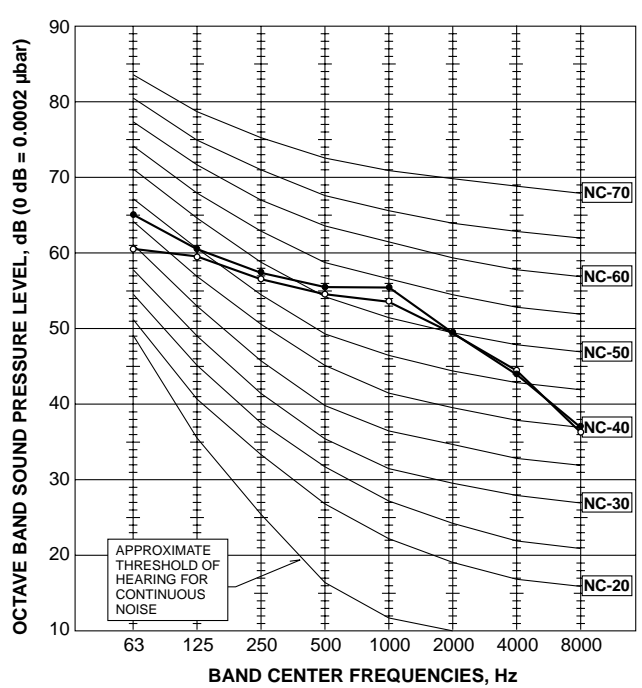
**PUHZ-RP140VKA
PUHZ-RP140YKA**

MODE	SPL(dB)	LINE
COOLING	50	○—○
HEATING	52	●—●



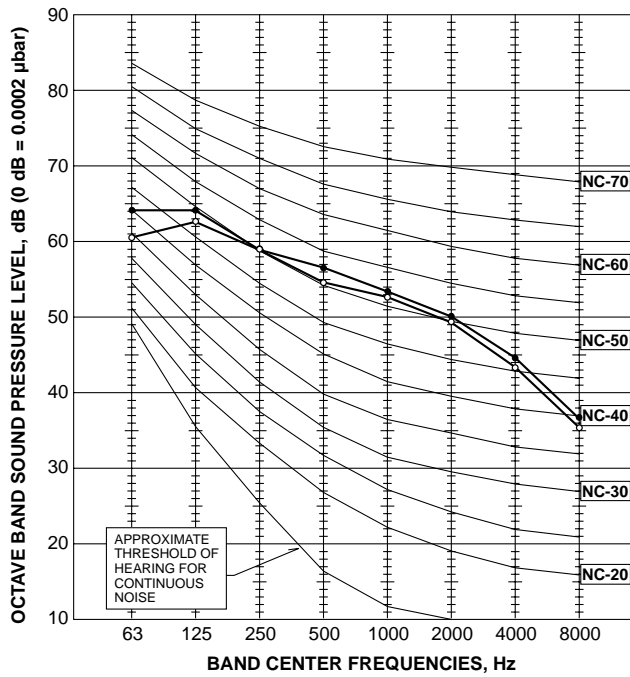
PUHZ-RP200YKA

MODE	SPL(dB)	LINE
COOLING	58	○—○
HEATING	59	●—●



PUHZ-RP250YKA

MODE	SPL(dB)	LINE
COOLING	58	○—○
HEATING	59	●—●



11-1. INDOOR UNIT

Part Name	Model Name	Applicable model	
Remote sensor	PAC-SE41TS-E	All models	
Remote operation adapter	PAC-SF40RM-E	All models except PEA-RP400/ 500GA	
Multiple remote controller adapter	PAC-SA88HA-E (1pc.)		
	PAC-725AD (10pcs.)		
Remote on/off adapter	PAC-SE55RA-E		
Power supply terminal kit	L/N/Earth	PAC-SG96HR-E	PCA-RP-KA, PSA-RP-GA
		PAC-SG94HR-E	PKA-RP-HAL/KAL
		PAC-SH52HR-E	PLA-RP-BA/BA2/BA3
	L/N	PAC-SG97HR-E	PCA-RP-HA PEAD-RP-JA(L)
Decoration panel	PLP-6BA	PLA-RP-BA/BA2/BA3	
Decoration panel with Wireless remote controller	PLP-6BALM		
Decoration panel with Wired remote controller	PLP-6BAMD		
Decoration panel with i-see sensor	PLP-6BAE		
Decoration panel with i-see sensor, Wireless remote controller	PLP-6BALME		
Decoration panel with i-see sensor, Wired remote controller	PLP-6BAMDE		
Automatic filter elevation panel	PLP-6BAJ		
i-see sensor corner panel	PAC-SA1ME-E		
Wireless signal receiver	PAR-SA9FA-E		
Space panel	PAC-SH48AS-E		
Air outlet shutter plate	PAC-SH51SP-E		
Multi-function casement	PAC-SH53TM-E		
Flange for fresh air intake	PAC-SH65OF-E		
High-efficiency filter element (PAC-SH53TM-E is needed.)	PAC-SH59KF-E		
Wireless remote controller kit	PAR-SL94B-E		PCA-RP-KA
Drain pump	PAC-SH83DM-E	PCA-RP50KA	
	PAC-SH85DM-E	PCA-RP60KA	
	PAC-SH84DM-E	PCA-RP71,100, 125, 140KA	
High-efficiency filter	PAC-SH88KF-E	PCA-RP50KA	
	PAC-SH89KF-E	PCA-RP60, 71KA	
	PAC-SH90KF-E	PCA-RP100, 125, 140KA	
Duct flange for fresh air	PAC-SF28OF-E	PCA-RP-HA	
Oil mist filter element (12pcs)	PAC-SG38KF-E		
Decoration cover (Front + Suspending bracket cover)	PAC-SF81KC-E	PCA-RP71HA	
	PAC-SF82KC-E	PCA-RP125HA	
Wired remote controller (with terminal bed)	PAR-21MAAT-E	PKA-RP-HAL	
		PKA-RP-KAL	
Drain pump	PAC-SH75DM-E	PKA-RP-HAL	
	PAC-SH94DM-E	PKA-RP-KAL	
Filter box	PAC-KE92TB-E	PEAD-RP35, 50JA(L)	
	PAC-KE93TB-E	PEAD-RP60, 71JA(L)	
	PAC-KE94TB-E	PEAD-RP100, 125JA(L)	
	PAC-KE95TB-E	PEAD-RP140JA(L)	

11-2. OUTDOOR UNIT

Part Name		Model Name	Applicable model
M-NET adapter		PAC-SF81MA-E	PUHZ-RP35-250
A-control service tool		PAC-SK52ST	PUHZ-RP35-250
Drain socket		PAC-SG61DS-E	PUHZ-RP35-250
Air outlet guide (RP100-250 need 2 pieces.)		PAC-SG58SG-E	PUHZ-RP35, 50
		PAC-SG59SG-E	PUHZ-RP60, 71
		PAC-SH96SG-E	PUHZ-RP100-250
Air protect guide (RP100-250 need 2 pieces.)		PAC-SG56AG-E	PUHZ-RP35, 50
		PAC-SH63AG-E	PUHZ-RP60, 71
		PAC-SH95AG-E	PUHZ-RP100-250
Drain pan		PAC-SG63DP-E	PUHZ-RP35, 50
		PAC-SG64DP-E	PUHZ-RP60, 71
		PAC-SH97DP-E	PUHZ-RP100-250
Filter dryer	($\phi 6.35$)	PAC-SG81DR-E	PUHZ-RP35, 50
	($\phi 9.52$)	PAC-SG82DR-E	PUHZ-RP60-200
	($\phi 12.7$)	PAC-SG85DR-E	PUHZ-RP250
Distribution pipe	(Twin)	MSDD-50TR-E	PUHZ-RP71-140
		MSDD-50WR-E	PUHZ-RP200, 250
	(Triple)	MSDT-111R-E	PUHZ-RP140-250
	(Quadruple)	MSDF-1111R-E	PUHZ-RP200, 250
Joint pipe (Unit → Extension pipe)	($\phi 15.88 \rightarrow \phi 19.05$)	PAC-SG75RJ-E	PUHZ-RP60-140
	($\phi 9.52 \rightarrow \phi 12.7$)	PAC-SG73RJ-E	PUHZ-RP60-200
	($\phi 12.7 \rightarrow \phi 15.88$)	PAC-SG74RJ-E	PUHZ-RP250
	($\phi 6.35 \rightarrow \phi 9.52$)	PAC-SG72RJ-E	PUHZ-RP35-50

Mr. SLIM™

 **MITSUBISHI ELECTRIC CORPORATION**

HEAD OFFICE : TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN