MITSUBISHI ELECTRIC

Changes for the Better

SPLIT-TYPE, HEAT PUMP AIR CONDITIONERS

May 2006

No. OCS03

TECHNICAL DATA BOOK R410A INVERTER

<Indoor unit>

[Model names]

MFZ-KA·VA
SLZ-KA·VA
SLZ-KA·VAL
SEZ-KC·VA
SEZ-KA·VA
PLA-RP·AA
PCA-RP·GA
PEAD-RP·EA
PEAD-RP·EA2
PEAD-RP·GA
PEA-RP·EA

<Outdoor unit>

[Model names]

SUZ-KA25/35/50/60/71VA
SUZ-KA25/35VAH

CONTENTS

kW Model

Mr.SLIM™

1 REFERENCE SERVICE MANUAL

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

1-1. Indoor Unit

Model name	Service Ref.	Service Manual No.
SLZ-KA25/35/50VA SLZ-KA25/35/50VAL	SLZ-KA25/35/50VA.TH SLZ-KA25/35/50VAL.TH	OC320
SEZ-KA35/50/60/71VA	SEZ-KA35/50/60/71VA.TH	OC321
SEZ-KC25VA	SEZ-KC25VA.W	MEE04K350
MFZ-KA25/35/50VA-E1	MFZ-KA25/35/50VA-E1	OB409
MFZ-KA25/35/50VA-A1	MFZ-KA25/35/50VA-A1	OB410
PLA-RP35/50/60/71AA	PLA-RP35/50/60/71AA.UK	OC335
	PLA-RP35/50/60/71AA	OC327
PCA-RP50/60/71GA	PCA-RP50/60/71GA	OC328
PEAD-RP50/6071EA PEAD-RP35EA2	PEAD-RP50/6071EA.UK PEAD-RP35EA2.UK	HWE05210
PEAD-RP60/71GA	PEAD-RP60/71GA.UK	HWE05060
PEA-RP71EA	PEA-RP71EA.TH-A	OC326

1-2. Outdoor Unit

Model name	Service Ref.	Service Manual No.
SUZ-KA25/35/50/60/71VA SUZ-KA25/35VAH	SUZ-KA25/35/50/60/71VA.TH SUZ-KA25/35VAH.TH	OC322
SUZ-KA25/35/50/60/71VA	SUZ-KA25/35/50/60/71VA.TH-A	OC323

(Note)
When you connect P series indoor units with SUZ, always make sure to follow the piping size of SUZ. Never use bigger sized pipings in order to ensure not only the system performance but also for your safety.

2 SPECIFICATIONS

2-1. FLOOR STANDING TYPE

Model name	Indoor unit		MFZ-KA25VA	MFZ-KA35VA	MFZ-KA50VA
	Outdoor unit		SUZ-KA25VA(H)	SUZ-KA35VA(H)	SUZ-KA50VA
Cooling	Capacity	Btu/h	8,500	11,900	
		kW	2.5(0.9-3.4)	3.5(0.9-3.9)	4.8(0.9-5.4)
	Total input	kW	0.58	1.09	1.55
	EER		4.31	3.21	3.1
	Energy label class		A	A	B
	SHF		0.66	0.65	0.63
Heating	Capacity	Btu/h	11,600	13,600	20,500
		kW	3.4(0.9-5.1)	4.0(0.9-6.2)	6.0(0.9-7.9)
	Total input	kW	0.835	1.10	1.86
	COP		4.07	3.64	3.23
	Energy label class		A	A	C
	Booster heater	kW	-	-	-
Power supply	Phase	ϕ	1	1	1
	Cycle	Hz	50	50	50
	Voltage	V	230	230	230
	Breaker size	A	10	10	20
Indoor unit	Air flow at cooling	CMM	4.8-5.8-7.1-8.7	5.0-6.1-7.4-9.1	7.1-7.9-9.2-10.7
	(Low-Medium-High-Super High)	CFM	170-205-250-310	180-215-260-320	250-280-325-380
	Air flow at heating	CMM	5.0-6.2-7.6-9.1	5.2-6.2-7.8-9.5	7.4-8.8-9.8-11.8
	(Low-Medium-High-Super High)	CFM	180-220-270-320	185-220-275-335	260-310-345-415
	External static pressure	Pa	0	0	0
	Sound level at cooling (Low-Medium-High-Super High)	dB(A)	22-27-32-37	23-28-33-38	32-35-39-43
	Sound level at heating (Low-Medium-High-Super High)	dB(A)	22-27-32-37	25-28-33-38	32-35-39-44
	External finish (Panel)		White Munsell 1.0Y 9.2/0.2		
	Dimension Unit (Panel)	W : mm	700		
		D : mm	200		
		H : mm	600		
		W : inch	27-5/8		
		D : inch	7-7/8		
		H : inch	23-5/8		
	Weight Unit (Panel)	kg	14		
		lbs	31		
Outdoor unit	Air flow at cooling	CMM	34.3	33.4	27.5-49
	(Low-High)	CFM	1,210	1,180	970-1,730
	Air flow at heating	CMM	32.3	33.4	36.8-49
	(Low-High)	CFM	1,140	1,180	1,300-1,730
	Sound level at cooling (Low-High)	dB(A)	46	47	51-53
	Sound level at heating (Low-High)	dB(A)	46	48	53-55
	External finish		Ivory Munsell 3.0Y 7.8/1.1		
	Dimension	W : mm	800	800	840
		D : mm	285	285	330
		H : mm	550	550	850
		W : inch	31-1/2	31-1/2	33-1/16
		D : inch	11-1/4	11-1/4	13
		H : inch	21-5/8	21-5/8	33-7/16
	Weight	kg	33	37	53
		lbs	73	82	117
Refrigerant pipe size	Gas side O.D.	mm	9.52	9.52	12.7
		inch	3/8	3/8	1/2
	Liquid side .	mm	6.35	6.35	6.35
		inch	1/4	1/4	1/4
Refrigerant pipe length	Height difference	m	Max. 12	Max. 12	Max. 15
	Length	m	Max. 20	Max. 20	Max. 30

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

2. Guaranteed operating range

		Indoor	Outdoor		
			KA25, KA35VA	KA50	KA25, KA35VAH
Cooling	Upper limit	32˚C D.B. , 23˚C W.B.	46˚C D.B.	43˚C D.B.	46˚C D.B.
	Lower limit	21˚C D.B. , 15˚C W.B.	-10˚C D.B.		
Heating	Upper limit	27˚C D.B.	24˚C D.B. , 18˚C W.B.		
	Lower limit	20˚C D.B.	-10˚C D.B. ,-11˚C W.B.		-20˚C D.B. ,-21˚C W.B.

3. Guaranteed voltage
198~264V, 50Hz

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

2-2. CEILING CASSETTE TYPE

Model name	Indoor unit		SLZ-KA25VA(L)	SLZ-KA35VA(L)	SLZ-KA50VA(L)
	Outdoor unit		SUZ-KA25VA(H)	SUZ-KA35VA(H)	SUZ-KA50VA
Cooling	Capacity	Btu/h	8,500	11,900	15,700
		kW	2.5(0.9-3.2)	3.5(1.0-3.9)	4.6(1.1-5.2)
	Total input	kW	0.69	1.06	1.63
	EER		3.62	3.30	2.82
	Energy label class		A	A	C
	SHF		0.86	0.77	0.68
Heating	Capacity	Btu/h	10,200	13,600	17,100
		kW	3.0(0.9-4.5)	4.0(0.9-5.0)	5.0(0.9-6.5)
	Total input	kW	0.83	1.10	1.55
	COP		3.61	3.64	3.23
	Energy label class		A	A	C
	Booster heater	kW	-	-	-
Power supply	Phase	ϕ	1	1	1
	Cycle	Hz	50	50	50
	Voltage	V	230	230	230
	Breaker size	A	10	10	20
Indoor unit	Air flow	CMM	8-9-10	8-9-11	8-9-11
	(Low-Medium-High)	CFM	280-320-355	280-320-390	280-320-390
	External static pressure	Pa	0	0	0
	Sound level (Low-Medium-High)	dB(A)	28-31-37	29-33-38	30-34-39
	External finish (Panel)		White Munsell 0.70Y 8.59/0.97		
	Dimension	W : mm	570(650)		
	Unit(Panel)	D : mm	570(650)		
		H : mm	208(20)		
		W : inch	22-7/16(25-9/16)		
		D : inch	22-7/16(25-9/16)		
		H : inch	8-3/16(13/16)		
	Weight	kg	16.5(3)		
	Unit (Panel)	lbs	36(7)		
	Unit drain pipe O.D.	mm	32		
		inch	1-1/4		
Outdoor unit	Air flow at cooling	CMM	34.3	33.4	27.5-49
	(Low-High)	CFM	1,210	1,180	970-1,730
	Air flow at heating	CMM	32.3	33.4	36.8-49
	(Low-High)	CFM	1,140	1,180	1,300-1,730
	Sound level at cooling (Low-High)	dB(A)	46	47	51-53
	Sound level at heating (Low-High)	dB(A)	46	48	53-55
	External finish		Ivory Munsell 3.0Y 7.8/1.1		
	Dimension	W : mm	800	800	840
		D : mm	285	285	330
		H : mm	550	550	850
		W : inch	31-1/2	31-1/2	33-1/16
		D : inch	11-1/4	11-1/4	13
		H : inch	21-5/8	21-5/8	33-7/16
	Weight	kg	33	37	53
		lbs	73	82	117
Refrigerant pipe size	Gas side O.D.	mm	9.52	9.52	12.7
		inch	3/8	3/8	1/2
	Liquid side O.D.	mm	6.35	6.35	6.35
		inch	1/4	1/4	1/4
Refrigerant pipe length	Height difference	m	Max. 12	Max. 12	Max. 15
	Length	m	Max. 20	Max. 20	Max. 30

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27℃ (80˚F) W.B. 19℃ (66˚F) Outdoor : D.B. 35℃ (95˚F) W.B. 24℃ (75˚F)
Heating Indoor : D.B. 20℃ (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		
			KA25, KA35VA	KA50	KA25, KA35VAH
Cooling	Upper limit	32˚C D.B. , 23˚C W.B.	46˚C D.B.	43˚C D.B.	46˚C D.B.
	Lower limit	21˚C D.B. , 15˚C W.B.	-10˚C D.B.		
Heating	Upper limit	27˚C D.B.	24˚C D.B. , 18˚C W.B.		
	Lower limit	20˚C D.B.	-10˚C D.B. ,-11˚C W.B.		-20˚C D.B. ,-21˚C W.B.

3. Guaranteed voltage
198~264V, 50Hz

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

Model name	Indoor unit		PLA-RP35AA	PLA-RP50AA	PLA-RP60AA	PLA-RP71AA
	Outdoor unit		SUZ-KA35VA(H)	SUZ-KA50VA	SUZ-KA60VA	SUZ-KA71VA
Cooling	Capacity	Btu/h	11,900	17,100	19,400	24,200
		kW	3.5(1.0-3.9)	5.0(1.1-5.6)	5.7(1.1-6.3)	7.1(0.9-8.1)
	Total input	kW	1.09	1.78	1.94	2.53
	EER		3.21	2.81	2.94	2.81
	Energy label class		A	C	C	C
	SHF		0.88	0.86	0.83	0.77
Heating	Capacity	Btu/h	14,000	20,500	23,500	27,300
		kW	4.1(0.9-5.0)	6.0(0.9-7.2)	6.9(0.9-8.0)	8.0(0.9-10.2)
	Total input	kW	1.11	1.76	2.11	2.49
	COP		3.69	3.41	3.27	3.21
	Energy label class		A	B	C	C
	Booster heater	kW	-	-	-	-
Power supply	Phase	ϕ	1	1	1	1
	Cycle	Hz	50	50	50	50
	Voltage	V	230	230	230	130
	Breaker size	A	10	20	20	20
Indoor unit	Air flow	CMM	11-12-13-14	14-15-16-18	14-15-16-18	15-16-18-20
	(Low-Medium2-Medium1-High)	CFM	390-425-460-495	495-530-565-635	495-530-565-635	530-565-635-705
	External static pressure	Pa	0	0	0	0
	Sound level (Low-Medium2-Medium1-High)	dB(A)	27-28-29-31	28-29-31-33	28-29-31-33	28-30-32-34
	External finish (Panel)		White Munsell 0.70Y 8.59/0.97			
	Dimension Unit (Panel)	W : mm	840 (950)			
		D : mm	840 (950)			
		H : mm	258 (30)			
		W : inch	33-1/16 (37-3/8)			
		D : inch	33-1/16 (37-3/8)			
		H : inch	10-3/16 (1-3/16)			
	Weight	kg	24 (5)			
	Unit (Panel)	lbs	53 (11)			
	Unit drain pipe I.D.	mm	32			
		inch	1-1/4			
Outdoor unit	Air flow at cooling	CMM	33.4	27.5-49	27.5-49	27.5-49
	(Low-High)	CFM	1,180	970-1,730	970-1,730	970-1,730
	Air flow at heating	CMM	33.4	36.8-49	36.8-49	36.8-49
	(Low-High)	CFM	1,180	1,300-1,730	1,300-1,730	1,300-1,730
	Sound level at cooling (Low-High)	dB(A)	47	51-53	51-53	51-53
	Sound level at heating (Low-High)	dB(A)	48	53-55	53-55	53-55
	External finish		Ivory Munsell 3.0Y 7.8/1.1			
	Dimension	W : mm	800	840	840	840
		D : mm	285	330	330	330
		H : mm	550	850	850	850
		W : inch	31-1/2	33-1/16	33-1/16	33-1/16
		D : inch	11-1/4	13	13	13
		H : inch	21-5/8	33-7/16	33-7/16	33-7/16
	Weight	kg	37	53	53	58
		lbs	82	117	117	128
Refrigerant pipe size	Gas side O.D.	mm	9.52	12.7	15.88	15.88
		inch	3/8	1/2	5/8	5/8
	Liquid side O.D.	mm	6.35	6.35	6.35	9.52
		inch	1/4	1/4	1/4	3/8
Refrigerant pipe length	Height difference	m	Max. 12	Max. 15	Max. 15	Max. 15
	Length	m	Max. 20	Max. 30	Max. 30	Max. 30

NOTE: 1. Rating conditions (ISO T1)

Cooling Indoor : D.B. 27℃ (80˚F) W.B. 19℃ (66˚F) Outdoor : D.B. 35℃ (95˚F) W.B. 24℃ (75˚F)

Heating Indoor : D.B. 20℃ (68˚F) Outdoor : D.B. 7℃ (45˚F) W.B. 6℃ (43˚F)

Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor		
			KA35VA	KA50, KA60, KA71	KA35VAH
Cooling	Upper limit	32˚C D.B. , 23˚C W.B.	46˚C D.B.	43˚C D.B.	46˚C D.B.
	Lower limit	21˚C D.B. , 15˚C W.B.	-10˚C D.B.		
Heating	Upper limit	27˚C D.B.	24˚C D.B. , 18˚C W.B.		
	Lower limit	20˚C D.B.	-10˚C D.B. ,-11˚C W.B.		-20˚C D.B. ,-21˚C W.B.

3. Guaranteed voltage
198~264V, 50Hz

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

2-3. CEILING-SUSPENDED TYPE

Model name	Indoor unit		PCA-RP50GA	PCA-RP60GA	PCA-RP71GA
	Outdoor unit		SUZ-KA50VA	SUZ-KA60VA	SUZ-KA71VA
Cooling	Capacity	Btu/h	16,000	18,800	24,200
		kW	4.7(1.1-5.4)	5.5(1.1-6.3)	7.1(0.9-8.1)
	Total input	kW	1.80	1.92	2.53
	EER		2.61	2.86	2.81
	Energy label class		D	C	C
	SHF		0.70	0.79	0.71
Heating	Capacity	Btu/h	18,800	23,500	27,300
		kW	5.5(0.9-6.6)	6.9(0.9-8.0)	8.0(0.9-10.2)
	Total input	kW	1.92	2.05	2.49
	COP		2.86	3.37	3.21
	Energy label class		D	C	C
	Booster heater	kW	-	-	-
Power supply	Phase	ϕ	1		
	Cycle	Hz	50		
	Voltage	V	230		
	Breaker size	A	20		
Indoor unit	Air flow	CMM	10-11-12-13	14-15-16-18	
	(Low-Medium2-Medium1-High)	CFM	355-390-425-460	495-530-565-635	
	External static pressure	Pa	0	0	
	Sound level (Low-Medium2-Medium1-High)	dB(A)	37-38-40-42	37-39-41-43	
	External finish		White Munsell 0.70Y 8.59/0.97		
	Dimension	W : mm	1000	1310	
		D : mm	680		
		H : mm	210		
		W : inch	39-3/8	51-9/16	
		D : inch	26-3/4		
		H : inch	8-1/4		
	Weight	kg	27	34	
		lbs	60	75	
	Unit drain pipe I.D.	mm	26		
		inch	1		
Outdoor unit	Air flow at cooling (Low-High)	CMM	27.5-49	27.5-49	27.5-49
		CFM	970-1,730	970-1,730	970-1,730
	Air flow at heating (Low-High)	CMM	36.8-49	36.8-49	36.8-49
		CFM	1,300-1,730	1,300-1,730	1,300-1,730
	Sound level at cooling (Low-High)	dB(A)	51-53	51-53	51-53
	Sound level at heating (Low-High)	dB(A)	53-55	53-55	53-55
	External finish		Ivory Munsell 3.0Y 7.8/1.1		
	Dimension	W : mm	840	840	840
		D : mm	330	330	330
		H : mm	850	850	850
		W : inch	33-1/16	33-1/16	33-1/16
		D : inch	13	13	13
		H : inch	33-7/16	33-7/16	33-7/16
	Weight	kg	53	53	58
		lbs	117	117	128
Refrigerant pipe size	Gas side O.D.	mm	12.7	15.88	15.88
		inch	1/2	5/8	5/8
	Liquid side O.D.	mm	6.35	6.35	9.52
		inch	1/4	1/4	3/8
Refrigerant pipe length	Height difference	m	Max. 15	Max. 15	Max. 15
	Length	m	Max. 30	Max. 30	Max. 30

NOTE: 1. Rating conditions (ISO T1)
Cooling Indoor : D.B. 27℃ (80˚F) W.B. 19℃ (66˚F) Outdoor : D.B. 35℃ (95˚F) W.B. 24℃ (75˚F)
Heating Indoor : D.B. 20℃ (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
			KA50, KA60, KA71
Cooling	Upper limit	32˚C D.B. , 23˚C W.B.	43˚C D.B.
	Lower limit	21˚C D.B. , 15˚C W.B.	-10˚C D.B.
Heating	Upper limit	27˚C D.B.	24˚C D.B. , 18˚C W.B.
	Lower limit	20˚C D.B.	-10˚C D.B. ,-11˚C W.B.

3. Guaranteed voltage
198~264V, 50Hz

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

2-4. CEILING-CONCEALED TYPE

Model name	Indoor unit		SEZ-KC25VA	SEZ-KA35VA	SEZ-KA50VA	SEZ-KA60VA	SEZ-KA71VA
	Outdoor unit		SUZ-KA25VA(H)	SUZ-KA35VA(H)	SUZ-KA50VA	SUZ-KA60VA	SUZ-KA71VA
Cooling	Capacity	Btu/h	8,500	11,900	17,100	18,800	24,200
		kW	2.5(0.9-3.2)	3.5(1.0-3.9)	5.0(1.1-5.6)	5.5(1.1-6.3)	7.1(0.9-8.3)
	Total input	kW	0.73	1.06	1.78	1.96	2.46
	EER		3.42	3.30	2.81	2.81	2.89
	Energy label class		A	A	C	C	C
	SHF		0.74	0.77	0.75	0.75	0.74
Heating	Capacity	Btu/h	10,200	13,600	20,100	23,500	27,600
		kW	3.0(0.9-4.5)	4.0(0.9-5.0)	5.9(1.1-7.2)	6.9(0.9-8.0)	8.1(0.9-10.4)
	Total input	kW	0.83	1.10	1.84	2.45	2.36
	COP		3.61	3.64	3.21	2.82	3.43
	Energy label class		A	A	C	D	B
	Booster heater	kW	-	-	-	-	-
Power supply	Phase	ϕ	1	1	1	1	1
	Cycle	Hz	50	50	50	50	50
	Voltage	V	230	230	230	230	230
	Breaker size	A	10	10	20	20	20
Indoor unit	Air flow	CMM	4.8-7.9	10-13	12-17	12-20	12-20
	(Low-High)	CFM	170-280	355-460	425-600	425-705	425-705
	External static pressure	Pa	Std:5 Max:5	Std:30 Max:50	Std:30 Max:50	Std:30 Max:50	Std:30 Max:50
	Sound level (Low-High)	dB(A)	25-36	30-35	31-39	32-43	32-43
	External finish		Galvanized sheets				
	Dimension	W : mm	790	1100			
		D : mm	550	700			
		H : mm	225	270			
		W : inch	31-1/8	43-5/16			
		D : inch	21-5/8	27-9/16			
		H : inch	8-7/8	10-5/8			
	Weight	kg	19	33.5			35
		lbs	42	74			77
	Unit drain pipe		R1(External thread)	R1(External thread)			
Outdoor unit	Air flow at cooling	CMM	34.3	33.4	27.5-49	27.5-49	27.5-49
	(Low-High)	CFM	1,210	1,180	970-1,730	970-1,730	970-1,730
	Air flow at heating	CMM	32.3	33.4	36.8-49	36.8-49	36.8-49
	(Low-High)	CFM	1,140	1,180	1,300-1,730	1,300-1,730	1,300-1,730
	Sound level at cooling (Low-High)	dB(A)	46	47	51-53	51-53	51-53
	Sound level at heating (Low-High)	dB(A)	46	48	53-55	53-55	53-55
	External finish		Ivory Munsell 3.0Y 7.8/1.1				
	Dimension	W : mm	800	800	840	840	840
		D : mm	285	285	330	330	330
		H : mm	550	550	850	850	850
		W : inch	31-1/2	31-1/2	33-1/16	33-1/16	33-1/16
		D : inch	11-1/4	11-1/4	13	13	13
		H : inch	21-5/8	21-5/8	33-7/16	33-7/16	33-7/16
	Weight	kg	33	37	53	53	58
		lbs	73	82	117	117	128
Refrigerant pipe size	Gas side O.D.	mm	9.52	9.52	12.7	15.88	15.88
		inch	3/8	3/8	1/2	5/8	5/8
	Liquid side O.D.	mm	6.35	6.35	6.35	6.35	9.52
		inch	1/4	1/4	1/4	1/4	3/8
Refrigerant pipe length	Height difference	m	Max. 12	Max. 12	Max. 15	Max. 15	Max. 15
	Length	m	Max. 20	Max. 20	Max. 30	Max. 30	Max. 30

NOTE: 1. Rating conditions (ISO T1)

Cooling Indoor : D.B. 27℃ (80˚F) W.B. 19℃ (66˚F) Outdoor : D.B. 35℃ (95˚F) W.B. 24℃ (75˚F)

Heating Indoor : D.B. 20℃ (68˚F) Outdoor : D.B. 7℃ (45˚F) W.B. 6℃ (43˚F)

Refrigerant piping length (one way) : 5m (16ft.)

2. Guaranteed operating range

		Indoor	Outdoor		
			KA25, KA35VA	KA50, KA60, KA71	KA25, KA35VAH
Cooling	Upper limit	32˚C D.B. , 23˚C W.B.	46˚C D.B.	43˚C D.B.	46˚C D.B.
	Lower limit	21˚C D.B. , 15˚C W.B.	-10˚C D.B.		
Heating	Upper limit	27˚C D.B.	24˚C D.B. , 18˚C W.B.		
	Lower limit	20˚C D.B.	-10˚C D.B. ,-11˚C W.B.		-20˚C D.B. ,-21˚C W.B.

3. Guaranteed voltage
198~264V, 50Hz

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

Model name	Indoor unit		PEAD-RP35EA2	PEAD-RP50EA	PEAD-RP60EA	PEAD-RP71EA
	Outdoor unit		SUZ-KA35VA(H)	SUZ-KA50VA	SUZ-KA60VA	SUZ-KA71VA
Cooling	Capacity	Btu/h	12,300	16,700	20,500	24,200
		kW	3.6(1.0-3.9)	4.9(1.1-5.6)	6.0(1.1-6.3)	7.1(0.9-8.1)
	Total input	kW	1.12	1.74	2.05	2.53
	EER		3.21	2.82	2.93	2.81
	Energy label class		A	C	C	C
	SHF		0.90	0.79	0.80	0.81
Heating	Capacity	Btu/h	14,000	20,100	23,900	27,300
		kW	4.1(0.9-5.0)	5.9(0.9-7.2)	7.0(0.9-8.0)	8.0(0.9-10.2)
	Total input	kW	1.13	1.69	2.07	2.49
	COP		3.63	3.49	3.38	3.21
	Energy label class		A	B	C	C
	Booster heater	kW	-	-	-	-
Power supply	Phase	ϕ	1	1	1	1
	Cycle	Hz	50	50	50	50
	Voltage	V	230	230	230	230
	Breaker size	A	10	20	20	20
Indoor unit	Air flow	CMM	13.5-17		17-21	20-25
	(Low-High)	CFM	476-600		600-741	706-883
	External static pressure	Pa	30(70)		30(70)	70(130)
	Sound level	dB(A)	36-40		37-41	37-41
	(Low-High)		(70Pa : 38-44)		(70Pa : 39-46)	(130Pa : 40-45)
	External finish		Galvanized sheets		Galvanized sheets	
	Dimension	W : mm	935		1175	
		D : mm	700		700	740
		H : mm	295		295	325
		W : inch	36-13/16		46-1/8	
		D : inch	27-5/8		27-5/8	29-1/8
		H : inch	11-5/8		11-5/8	12-13/16
	Weight	kg	33	35	42	44
		lbs	73	77	92	97
	Unit drain pipe		R1(External thread)		R1(External thread)	
Outdoor unit	Air flow at cooling	CMM	33.4	27.5-49	27.5-49	27.5-49
	(Low-High)	CFM	1,180	970-1,730	970-1,730	970-1,730
	Air flow at heating	CMM	33.4	36.8-49	36.8-49	36.8-49
	(Low-High)	CFM	1,180	1,300-1,730	1,300-1,730	1,300-1,730
	Sound level at cooling (Low-High)	dB(A)	47	51-53	51-53	51-53
	Sound level at heating (Low-High)	dB(A)	48	53-55	53-55	53-55
	External finish		Ivory Munsell 3.0Y 7.8/1.1			
	Dimension	W : mm	800	840	840	840
		D : mm	285	330	330	330
		H : mm	550	850	850	850
		W : inch	31-1/2	33-1/16	33-1/16	33-1/16
		D : inch	11-1/4	13	13	13
		H : inch	21-5/8	33-7/16	33-7/16	33-7/16
	Weight	kg	37	53	53	58
		lbs	82	117	117	128
Refrigerant pipe size	Gas side O.D.	mm	9.52	12.7	15.88	15.88
		inch	3/8	1/2	5/8	5/8
	Liquid side O.D.	mm	6.35	6.35	6.35	9.52
		inch	1/4	1/4	1/4	3/8
Refrigerant pipe length	Height difference	m	Max. 12	Max. 15	Max. 15	Max. 15
	Length	m	Max. 20	Max. 30	Max. 30	Max. 30

NOTE: 1. Rating conditions (ISO T1)

Cooling Indoor : D.B. 27℃ (80˚F) W.B. 19℃ (66˚F) Outdoor : D.B. 35℃ (95˚F) W.B. 24℃ (75˚F)

Heating Indoor : D.B. 20℃ (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		
			KA35VA	KA50, KA60, KA71	KA35VAH
Cooling	Upper limit	32˚C D.B. , 23˚C W.B.	46˚C D.B.	43˚C D.B.	46˚C D.B.
	Lower limit	21˚C D.B. , 15˚C W.B.	-10˚C D.B.		
Heating	Upper limit	27˚C D.B.	24˚C D.B. , 18˚C W.B.		
	Lower limit	20˚C D.B.	-10˚C D.B. ,-11˚C W.B.		-20˚C D.B. ,-21˚C W.B.

3. Guaranteed voltage
198~264V, 50Hz

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

Model name	Indoor unit		PEAD-RP60GA	PEAD-RP71GA
	Outdoor unit		SUZ-KA60VA	SUZ-KA71VA
Cooling	Capacity	Btu/h	19,400	24,200
		kW	5.7(1.1-6.3)	7.1(0.9-8.1)
	Total input	kW	2.03	2.53
	EER		2.81	2.81
	Energy label class		C	C
	SHF		0.82	0.81
Heating	Capacity	Btu/h	23,900	27,300
		kW	7.0(0.9-8.0)	8.0(0.9-10.2)
	Total input	kW	2.05	2.49
	COP		3.41	3.21
	Energy label class		B	C
	Booster heater	kW	-	-
Power supply	Phase	ϕ	1	
	Cycle	Hz	50	
	Voltage	V	230	
	Breaker size	A	20	
Indoor unit	Air flow	CMM	16.5-21	20-25
	(Low-High)	CFM	582-741	706-883
	External static pressure	Pa	10/50/70	
	Sound level (Low-High)	dB(A)	33-37/35-40/36-42 (10/50/70Pa)	35-38/37-41/37-43 (10/50/70Pa)
	External finish		Galvanized sheets	
	Dimension	W : mm	1171	
		D : mm	740	
		H : mm	275	
		W : inch	46-1/8	
		D : inch	29-1/8	
		H : inch	10-13/16	
	Weight	kg	42	
		lbs	93	
	Unit drain pipe O.D.	mm	32	
		inch	1-1/4	
Outdoor unit	Air flow at cooling	CMM	27.5-49	27.5-49
	(Low-High)	CFM	970-1,730	970-1,730
	Air flow at heating	CMM	36.8-49	36.8-49
	(Low-High)	CFM	1,300-1,730	1,300-1,730
	Sound level at cooling (Low-High)	dB(A)	51-53	51-53
	Sound level at heating (Low-High)	dB(A)	53-55	53-55
	External finish		Ivory Munsell 3.0Y 7.8/1.1	
	Dimension	W : mm	840	840
		D : mm	330	330
		H : mm	850	850
		W : inch	33-1/16	33-1/16
		D : inch	13	13
		H : inch	33-7/16	33-7/16
	Weight	kg	53	58
		lbs	117	128
Refrigerant pipe size	Gas side O.D.	mm	15.88	15.88
		inch	5/8	5/8
	Liquid side O.D.	mm	6.35	9.52
		inch	1/4	3/8
Refrigerant pipe length	Height difference	m	Max. 15	Max. 15
	Length	m	Max. 30	Max. 30

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

2. Guaranteed operating range

		Indoor	Outdoor
			KA60, KA71
Cooling	Upper limit	32˚C D.B. , 23˚C W.B.	43˚C D.B.
	Lower limit	21˚C D.B. , 15˚C W.B.	-10˚C D.B.
Heating	Upper limit	27˚C D.B.	24˚C D.B. , 18˚C W.B.
	Lower limit	20˚C D.B.	-10˚C D.B. ,-11˚C W.B.

3. Guaranteed voltage
198~264V, 50Hz

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

Model name	Indoor unit		PEA-RP71EA
	Outdoor unit		SUZ-KA71VA
Cooling	Capacity	Btu/h	23,500
		kW	6.9
	Total input	kW	2.90
	EER		2.38
	SHF		0.84
Heating	Capacity	Btu/h	27,300
		kW	8.0
	Total input	kW	2.49
	COP		3.21
	Booster heater	kW	-
Power supply	Phase	ϕ	1
	Cycle	Hz	50
	Voltage	V	230
	Breaker size	A	20
Indoor unit	Air flow	CMM	22-27
	(Low-High)	ℓ /s	367-450
	External static pressure	Pa	125
	Sound level (Low-High)	dB(A)	52-55
	External finish		Galvanized sheets
	Dimension	W : mm	785
		D : mm	690
		H : mm	428
		W : inch	31
		D : inch	27-1/16
		H : inch	16-7/8
	Weight	kg	46
		lbs	101
	Unit drain pipe		R1(External therad)
Outdoor unit	Air flow at cooling	CMM	27.5-49
	(Low-High)	CFM	970-1,730
	Air flow at heating	CMM	36.8-49
	(Low-High)	CFM	1,300-1,730
	Sound level at cooling (Low-High)	dB(A)	51-53
	Sound level at heating (Low-High)	dB(A)	53-55
	External finish		Ivory Munsell 3.0Y 7.8/1.1
	Dimension	W : mm	840
		D : mm	330
		H : mm	850
		W : inch	33-1/16
		D : inch	13
		H : inch	33-7/16
	Weight	kg	58
		lbs	128
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. 15
	Length	m	Max. 30

NOTE: 1. Rating conditions (ISO T1)

Cooling Indoor : D.B. 27℃ (80˚F) W.B. 19℃ (66˚F) Outdoor : D.B. 35℃ (95˚F) W.B. 24℃ (75˚F)

Heating Indoor : D.B. 20℃ (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
			KA71
Cooling	Upper limit	32˚C D.B. , 23˚C W.B.	43˚C D.B.
	Lower limit	21˚C D.B. , 15˚C W.B.	-10˚C D.B.
Heating	Upper limit	27˚C D.B.	24˚C D.B. , 18˚C W.B.
	Lower limit	20˚C D.B.	-10˚C D.B. ,-11˚C W.B.

3. Guaranteed voltage
198~264V, 50Hz

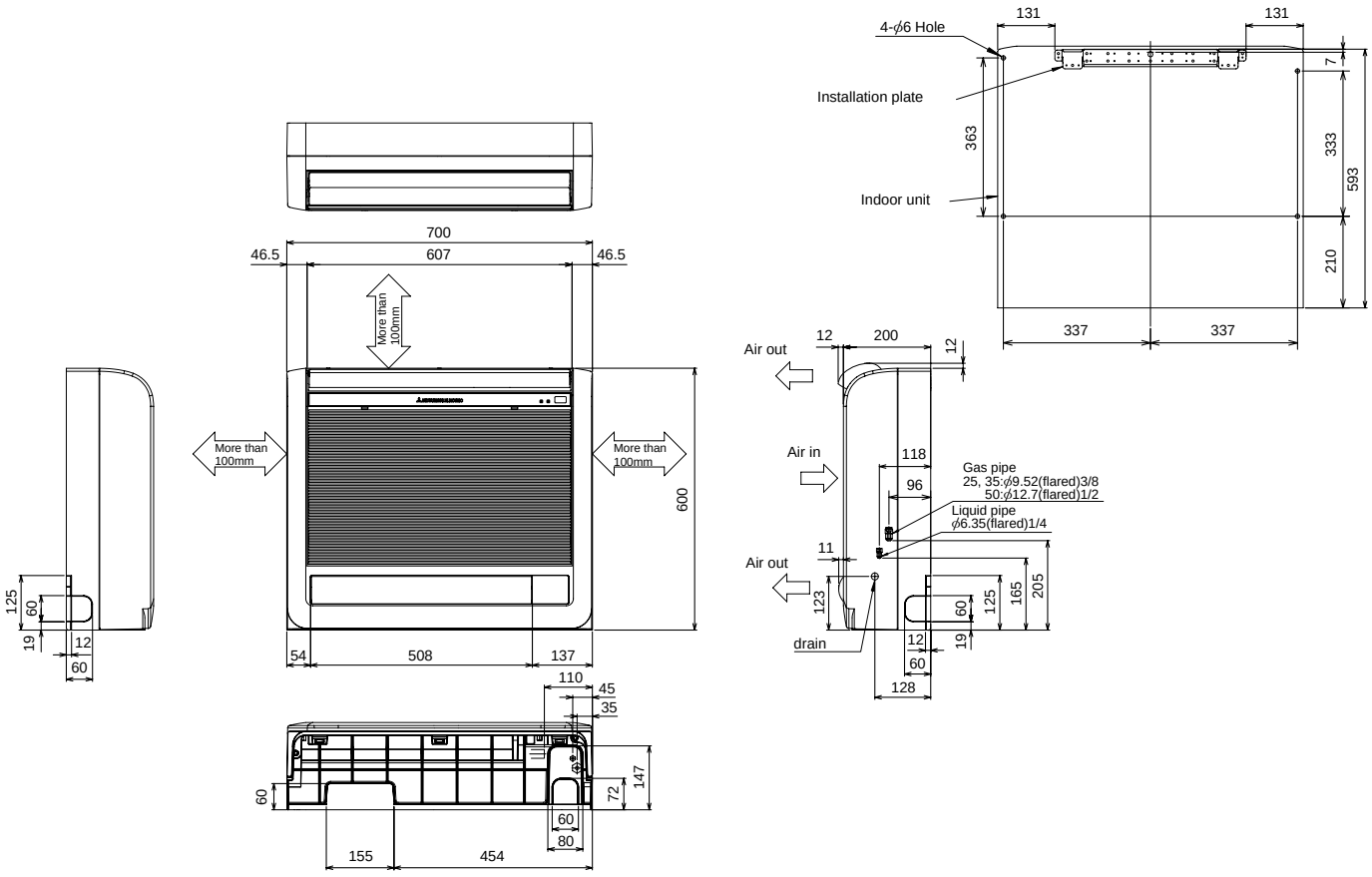
4. Above data based on indicated voltage
Indoor unit Single phase 230V 50Hz
Outdoor unit Single phase 230V 50Hz

3 OUTLINES AND DIMENSIONS

INDOOR UNIT

Unit : mm

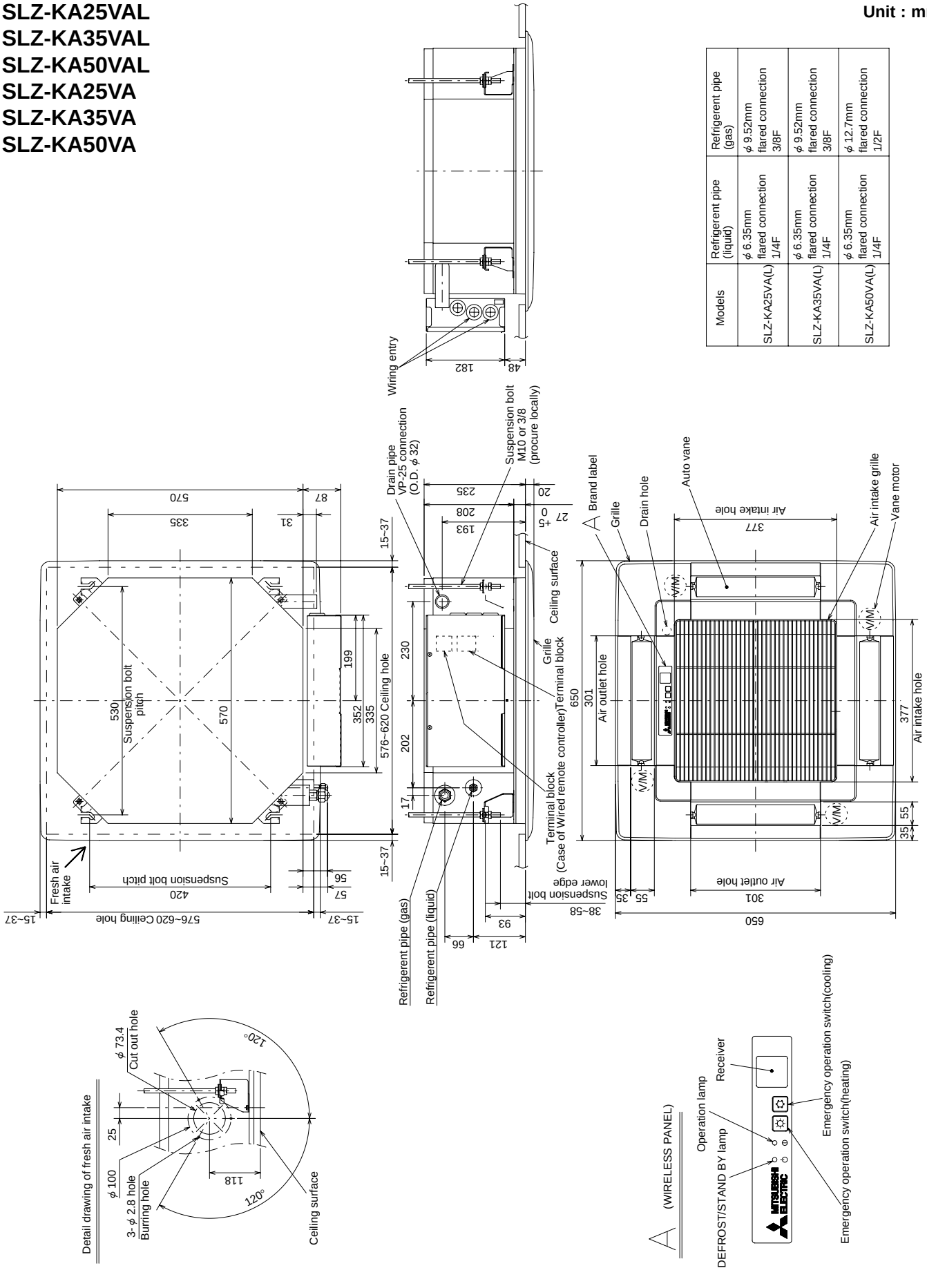
MFZ-KA25VA
MFZ-KA35VA
MFZ-KA50VA

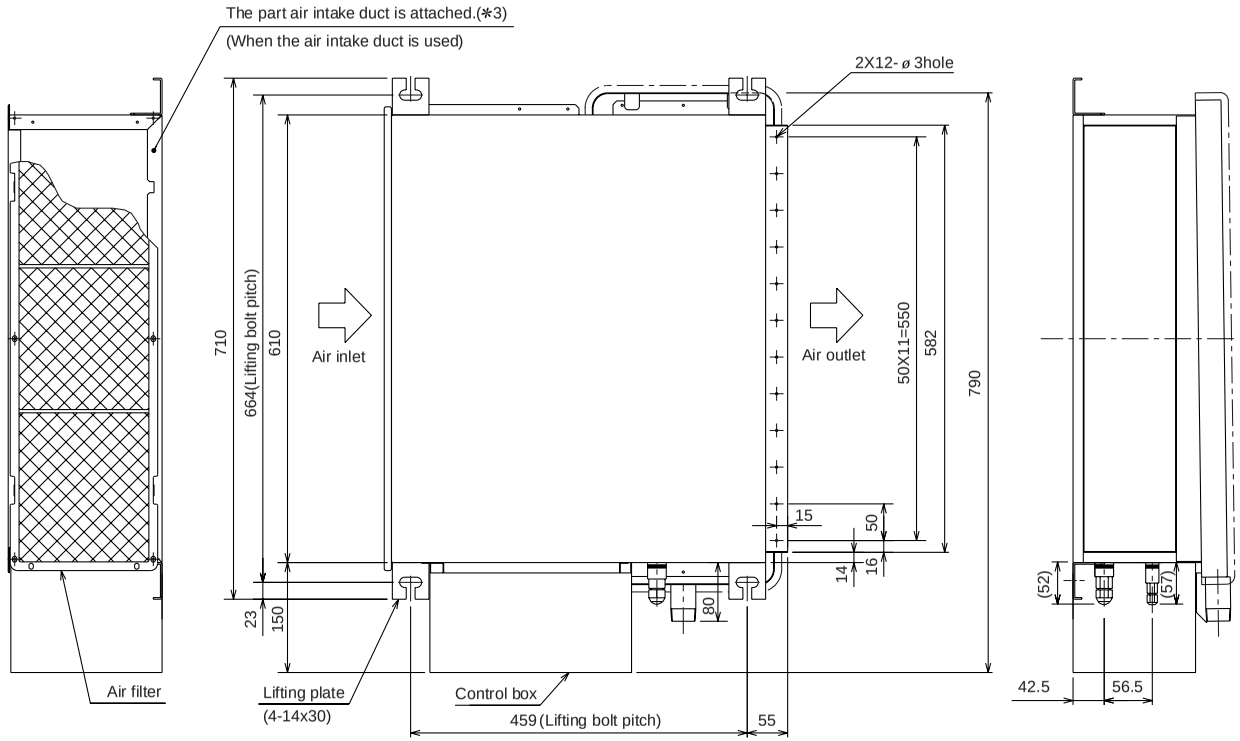


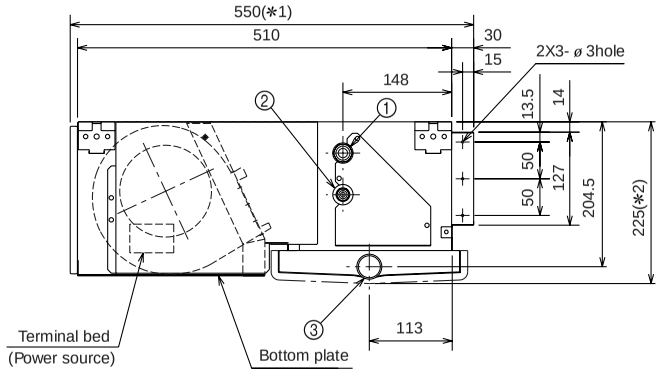
SLZ-KA25VAL
SLZ-KA35VAL
SLZ-KA50VAL
SLZ-KA25VA
SLZ-KA35VA
SLZ-KA50VA

Unit : mm

Models	Refrigerent pipe (liquid)	Refrigerent pipe (gas)
SLZ-KA25VA(L)	ϕ 6.35mm flared connection 1/4F	ϕ 9.52mm flared connection 3/8F
SLZ-KA35VA(L)	ϕ 6.35mm flared connection 1/4F	ϕ 9.52mm flared connection 3/8F
SLZ-KA50VA(L)	ϕ 6.35mm flared connection 1/4F	ϕ 12.7mm flared connection 1/2F



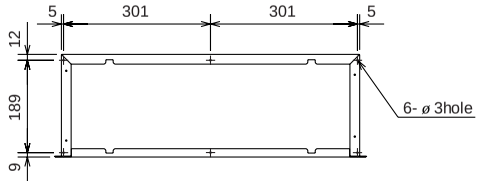




Note 1. Use M10 screw for the lifting bolt (field supply).
2. Keep the service space for the maintenance from the bottom when the heat exchanger is cleaned.
3. The direction of air intake can be changed from the bottom to the rear by attaching the bottom plate to the air intake side.
4. Drain Pan is changeable from right and left.
5. The dimension is changed, in case the optional long-life filter is attached.

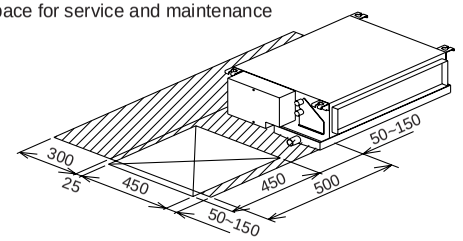
Rear Air-Intake spec. :Depth is increased by 30mm(*1)
Bottom Air-Intake spec. :Height is increased by 30mm(*2)

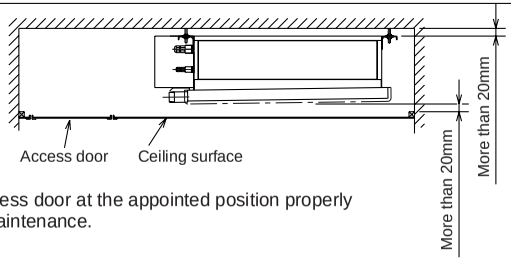
Refrigerant piping flare connection
(gas ø 9.52 copper tube):LP ·····①
Refrigerant piping flare connection
(liquid ø 6.35 copper tube):HP ·····②
Drain piping connection R1 (External thread) ·····③



Detailed chart around the air intake duct frange(*3)
(Duct and frange should be supplied in the field)

Required space for service and maintenance



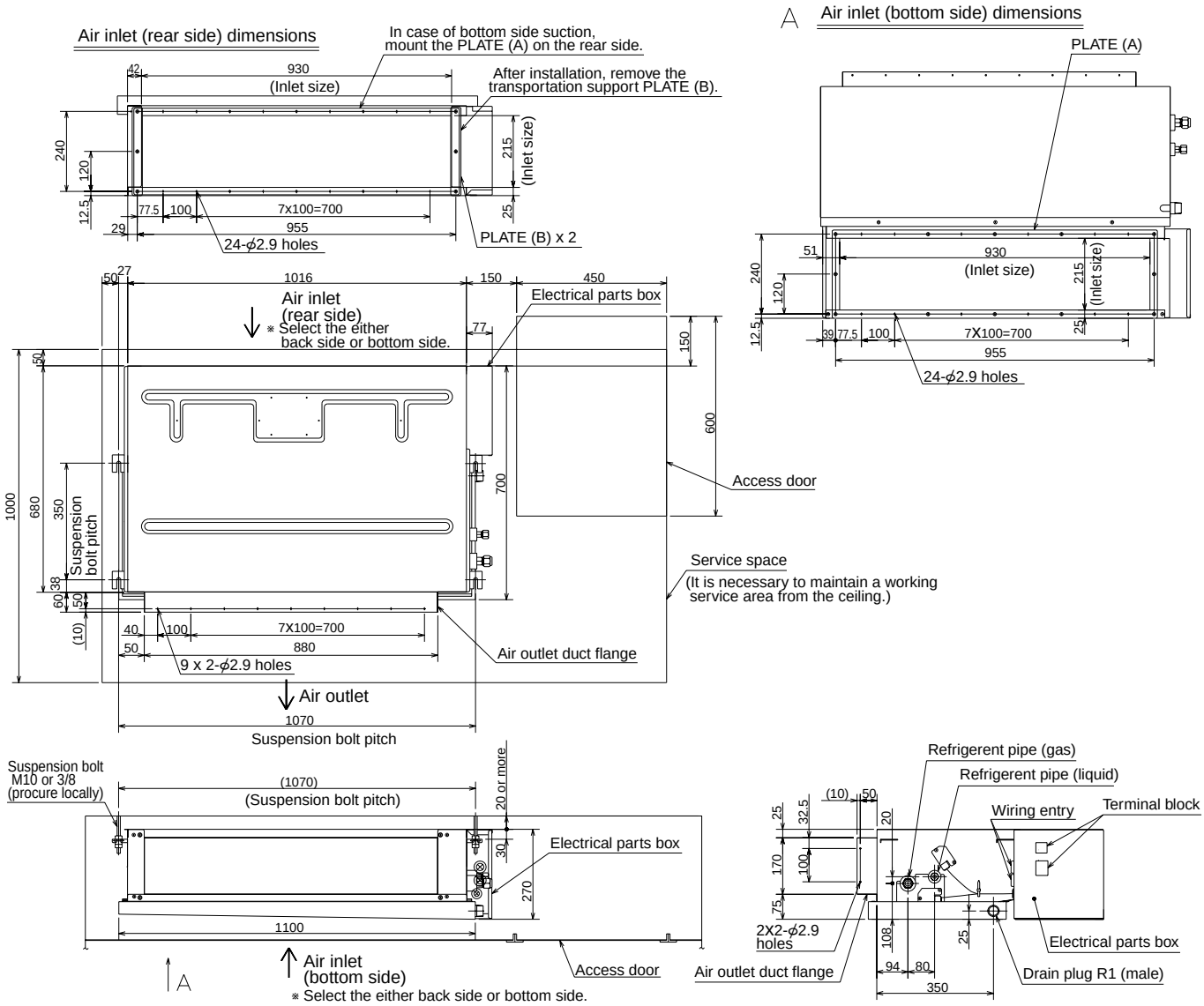


Make the access door at the appointed position properly for service maintenance.

Unit : mm

SEZ-KA35VA
SEZ-KA50VA
SEZ-KA60VA
SEZ-KA71VA

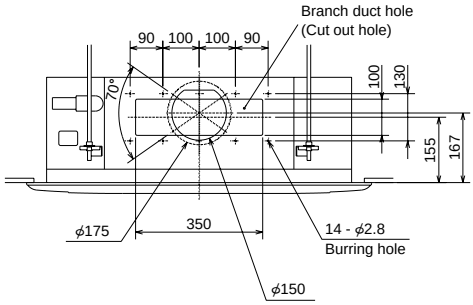
Unit : mm

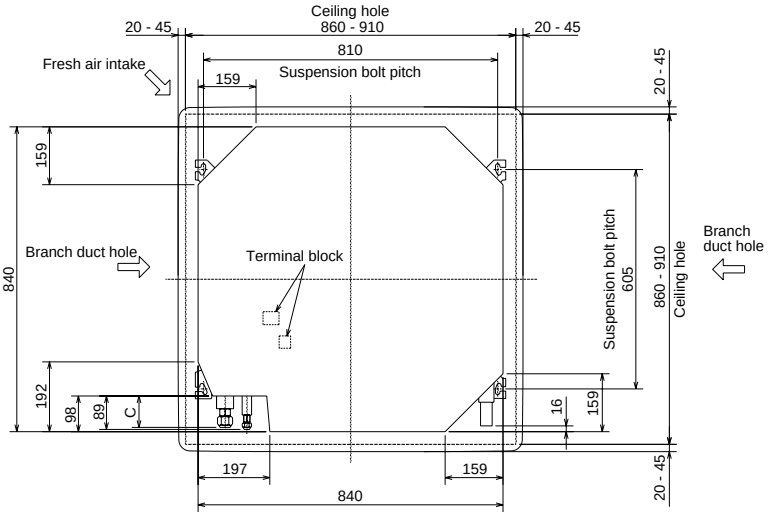


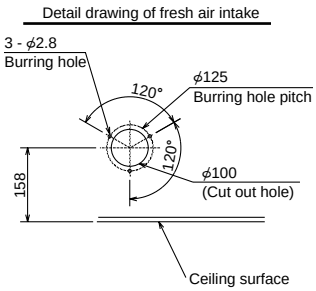
Models	Refrigerent pipe (liquid)	Refrigerent pipe (gas)
SEZ-KA35VA	φ6.35mm flared connection 1/4F	φ9.52mm flared connection 3/8F
SEZ-KA50VA	φ6.35mm flared connection 1/4F	φ12.7mm flared connection 1/2F
SEZ-KA60VA	φ6.35mm flared connection 1/4F	φ15.88mm flared connection 5/8F
SEZ-KA71VA	φ9.52mm flared connection 3/8F	φ15.88mm flared connection 5/8F

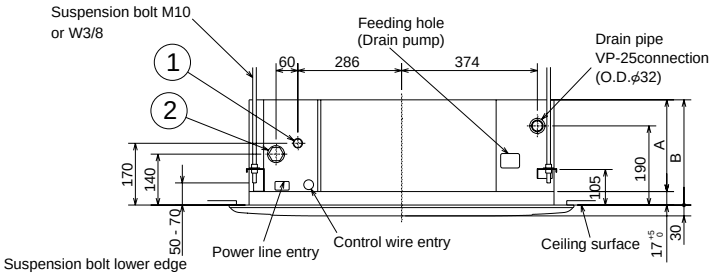
PLA-RP35AA PLA-RP50AA PLA-RP60AA PLA-RP71AA

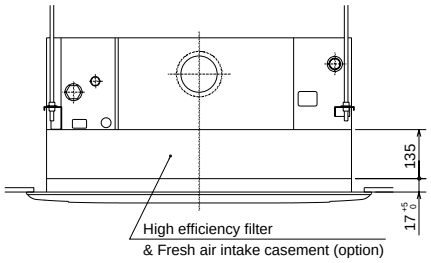
Unit : mm

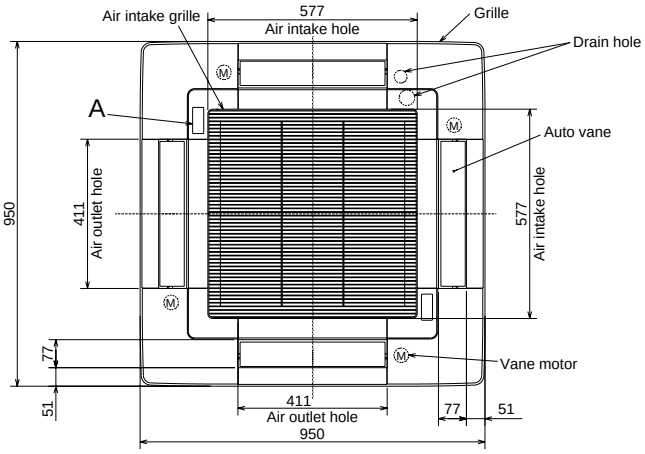


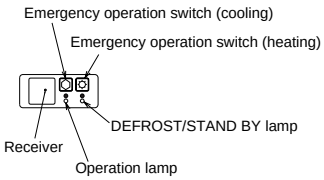












Use the current nuts meeting the pipe size of the outdoor unit.
Available pipe size

	RP35, 50	RP60	RP71
① LIQUID SIDE	ϕ6.35 ○	ϕ6.35	—
	ϕ9.52	ϕ9.52 ○	ϕ9.52 ○
② GAS SIDE	ϕ12.7 ○	—	—
	ϕ15.88	ϕ15.88 ○	ϕ15.88 ○
	—	—	—

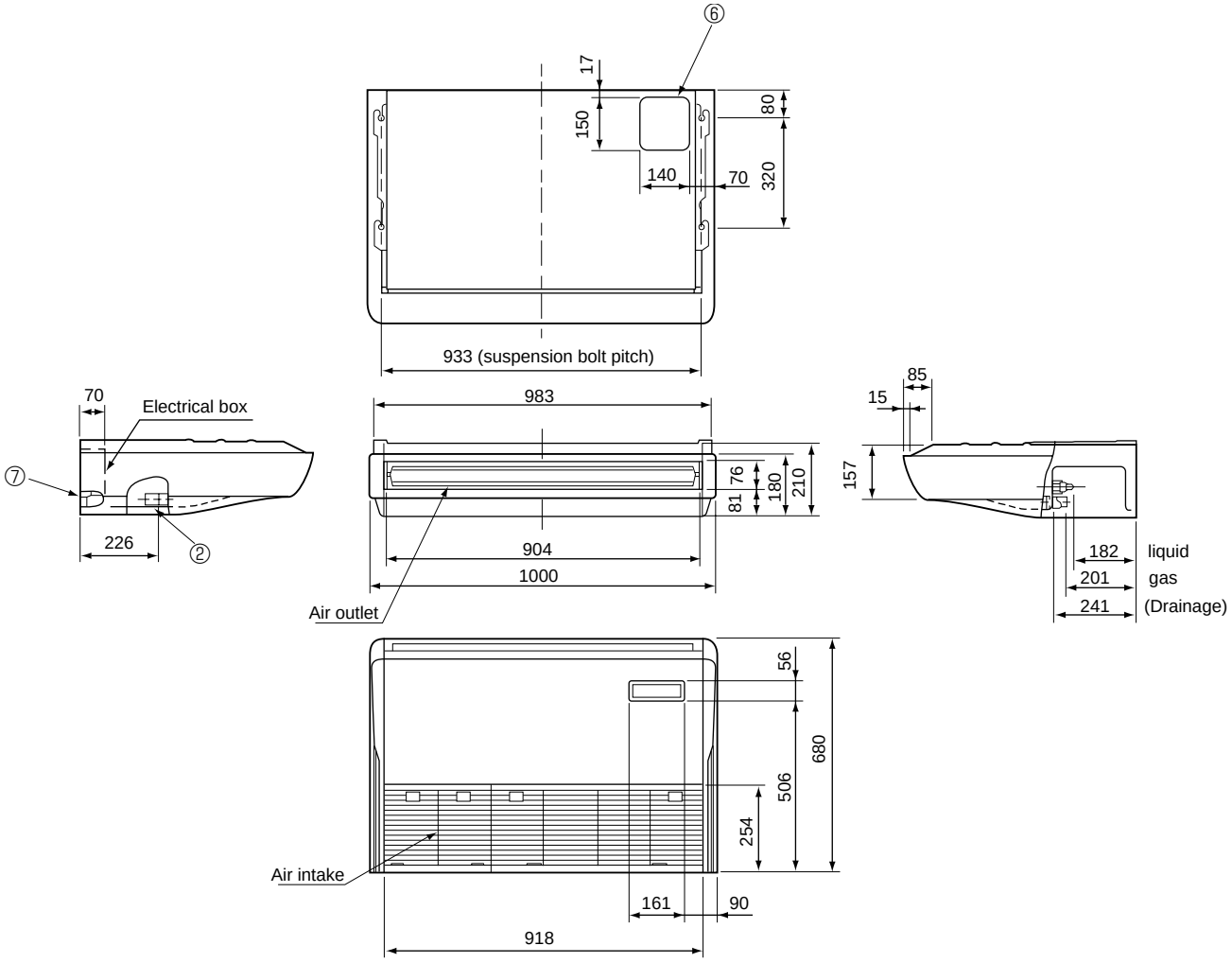
○ Factory flare nut attachment to the heat-exchanger.

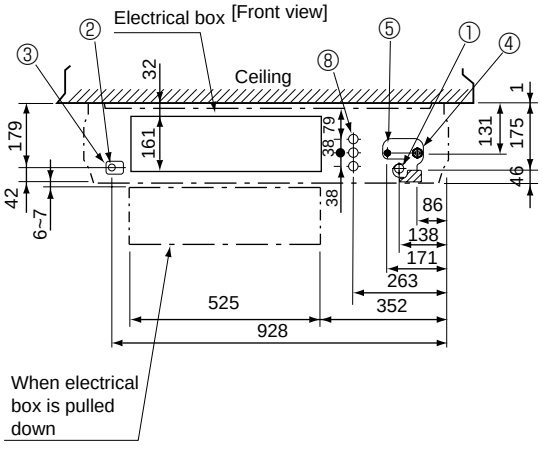
Models	A	B	C
PLA-RP35,50AA PLA-RP60,71AA	241	258	80

PCA-RP50GA

Unit : mm

NOTES:
1. Use M10 or W3/8 screws for anchor bolt.
2. When optional drain lift-up mechanism is installed, always provide upward piping for refrigerant piping.





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 left drain pipe arrangement
⑧ Knock out hole for wiring arrangement

Use the current nuts meeting the pipe size of the outdoor unit.

Available pipe size

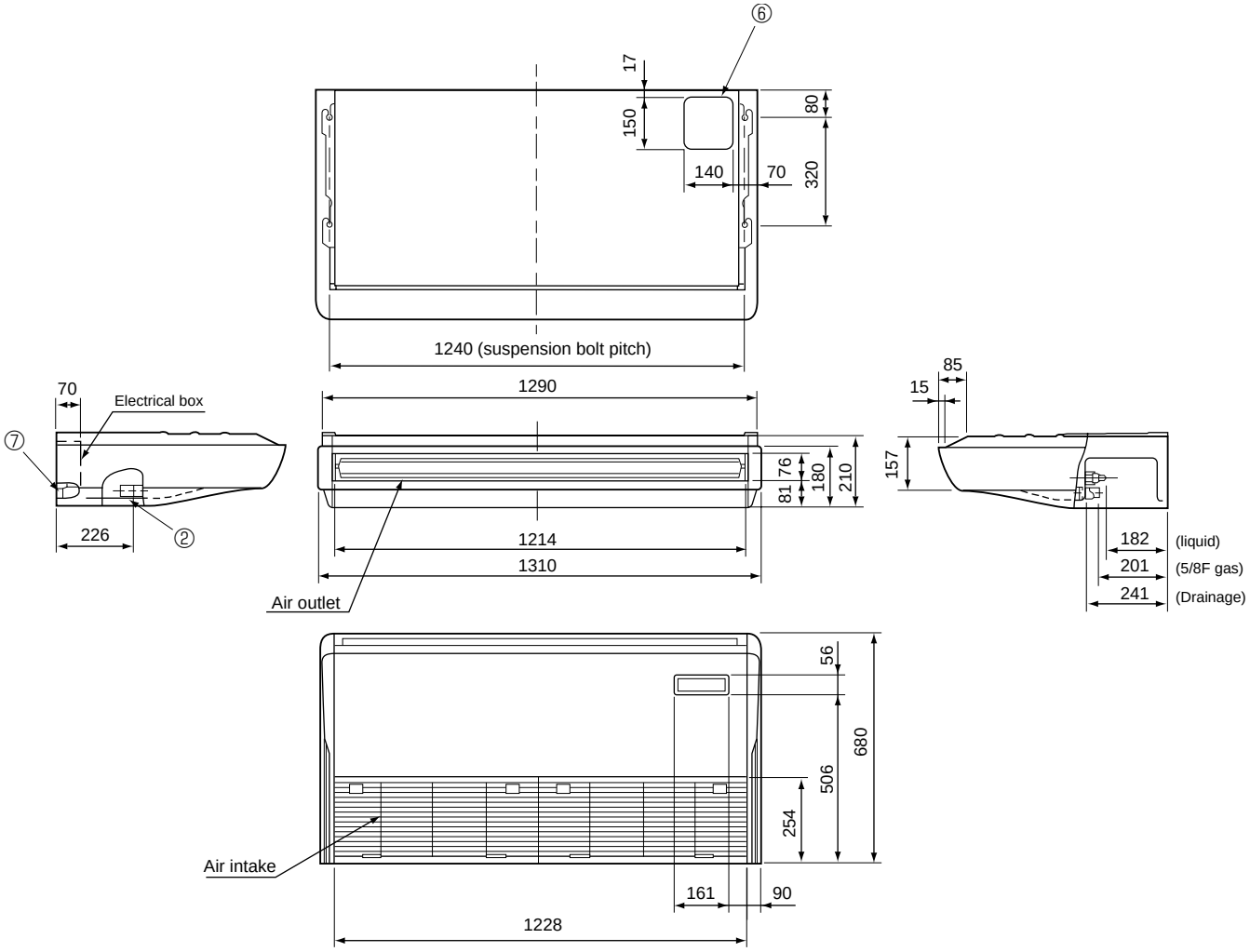
	RP50
⑤ LIQUID SIDE	ϕ6.35 ○
	ϕ9.52
④ GAS SIDE	ϕ12.7 ○
	ϕ15.88

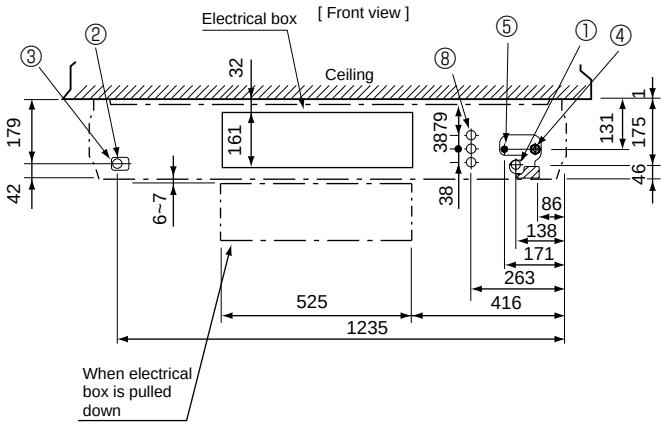
○ : Factory flare nut attachment to the heat-exchanger.

PCA-RP60GA
PCA-RP71GA

Unit : mm

NOTES:
1. Use M10 or W3/8 screws for anchor bolt.
2. When optional drain lift-up mechanism is installed, always provide upward piping for refrigerant piping.





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 left drain pipe arrangement
⑧ Knock out hole for wiring arrangement

Use the current nuts meeting the pipe size of the outdoor unit.

Available pipe size

	RP60	RP71
⑤ LIQUID SIDE	ϕ6.35	—
	ϕ9.52 ○	ϕ9.52 ○
④ GAS SIDE	—	—
	ϕ15.88 ○	ϕ15.88 ○
	—	—

○ : Factory flare nut attachment to the heat-exchanger.

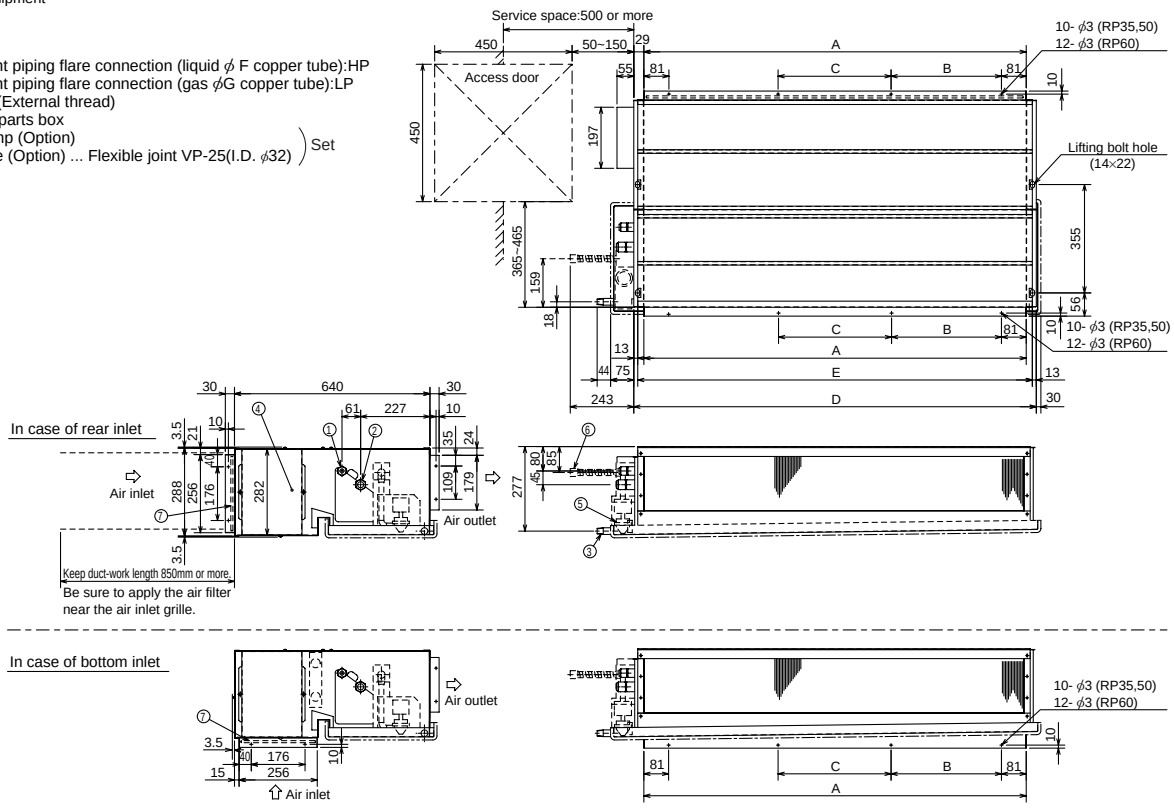
PEAD-RP35EA2
PEAD-RP50EA
PEAD-RP60EA

Unit : mm

Model	A	B	C	D	E	F	G
RP35,50	772	305	–	830	804	R410A Outdoor unit : 6.35 ※ R407C Outdoor unit : 9.52	R410A Outdoor unit : 12.7 ※ R407C Outdoor unit : 15.88
RP60	1012	280	290	1070	1044	Outdoor unit (SUZ) : 6.35 R407C Outdoor unit : 9.52 ※	15.88

※ Setting at shipment

① Refrigerant piping flare connection (liquid ϕ F copper tube):HP
② Refrigerant piping flare connection (gas ϕG copper tube):LP
③ Drain R1(External thread)
④ Electrical parts box
⑤ Drain Pump (Option)
⑥ Drain Pipe (Option) ... Flexible joint VP-25(I.D. ϕ32)) Set
⑦ Filter

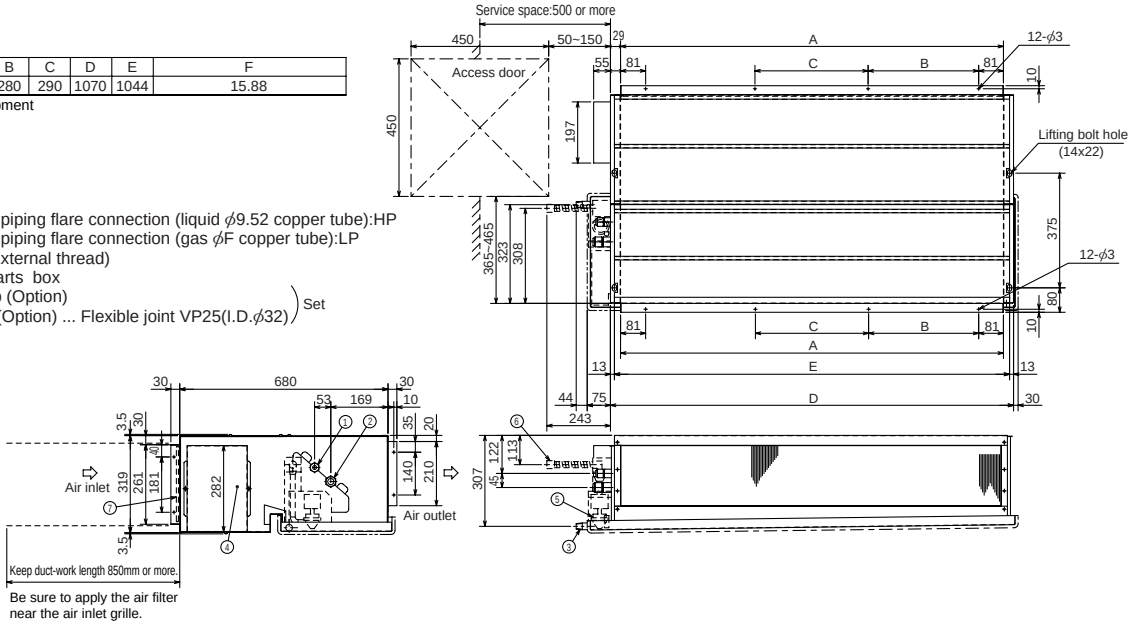


PEAD-RP71EA

Model	A	B	C	D	E	F
RP71	1012	280	290	1070	1044	15.88

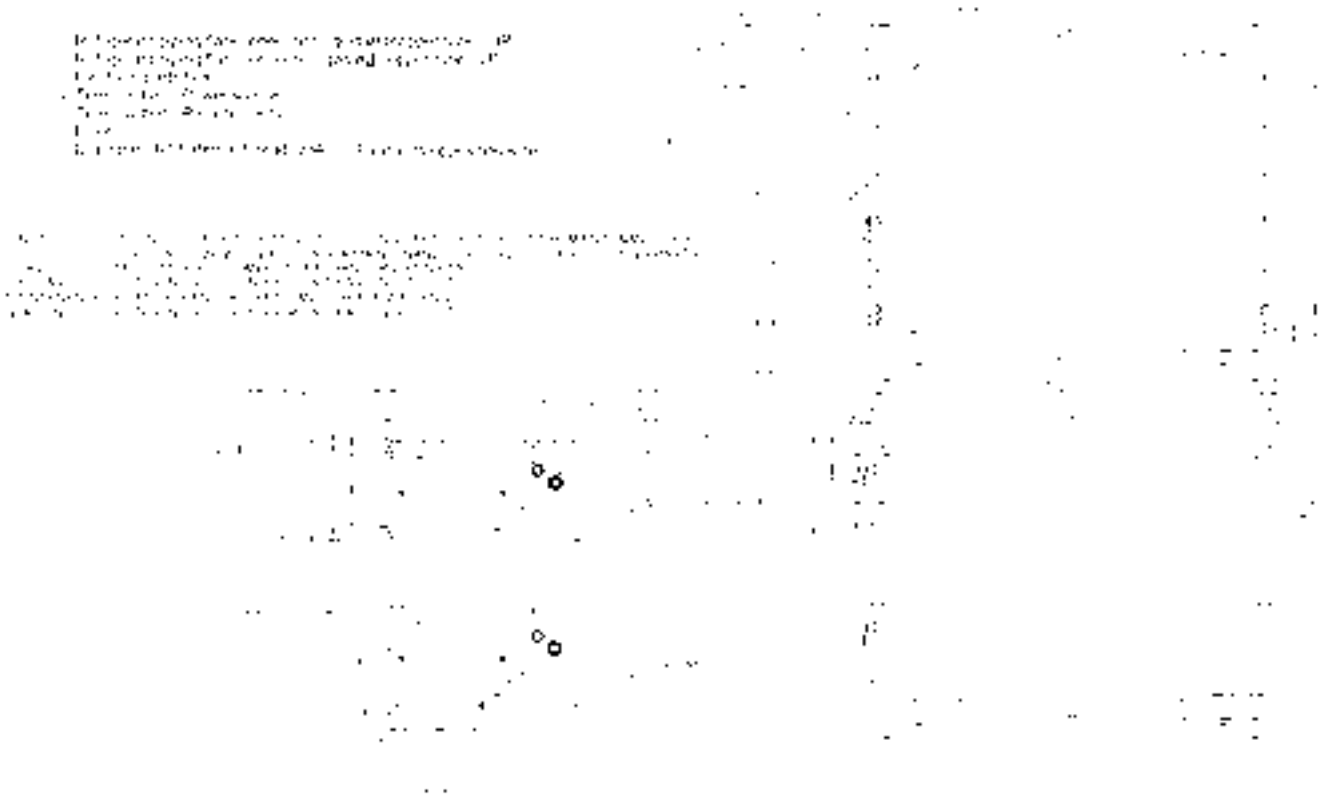
※ Setting at shipment

① Refrigerant piping flare connection (liquid ϕ9.52 copper tube):HP
② Refrigerant piping flare connection (gas ϕF copper tube):LP
③ Drain R1 (External thread)
④ Electrical parts box
⑤ Drain Pump (Option)
⑥ Drain Pipe (Option) ... Flexible joint VP25(I.D.ϕ32)) Set
⑦ Filter



PEAD-RP60GA
PEAD-RP71GA

Unit : mm

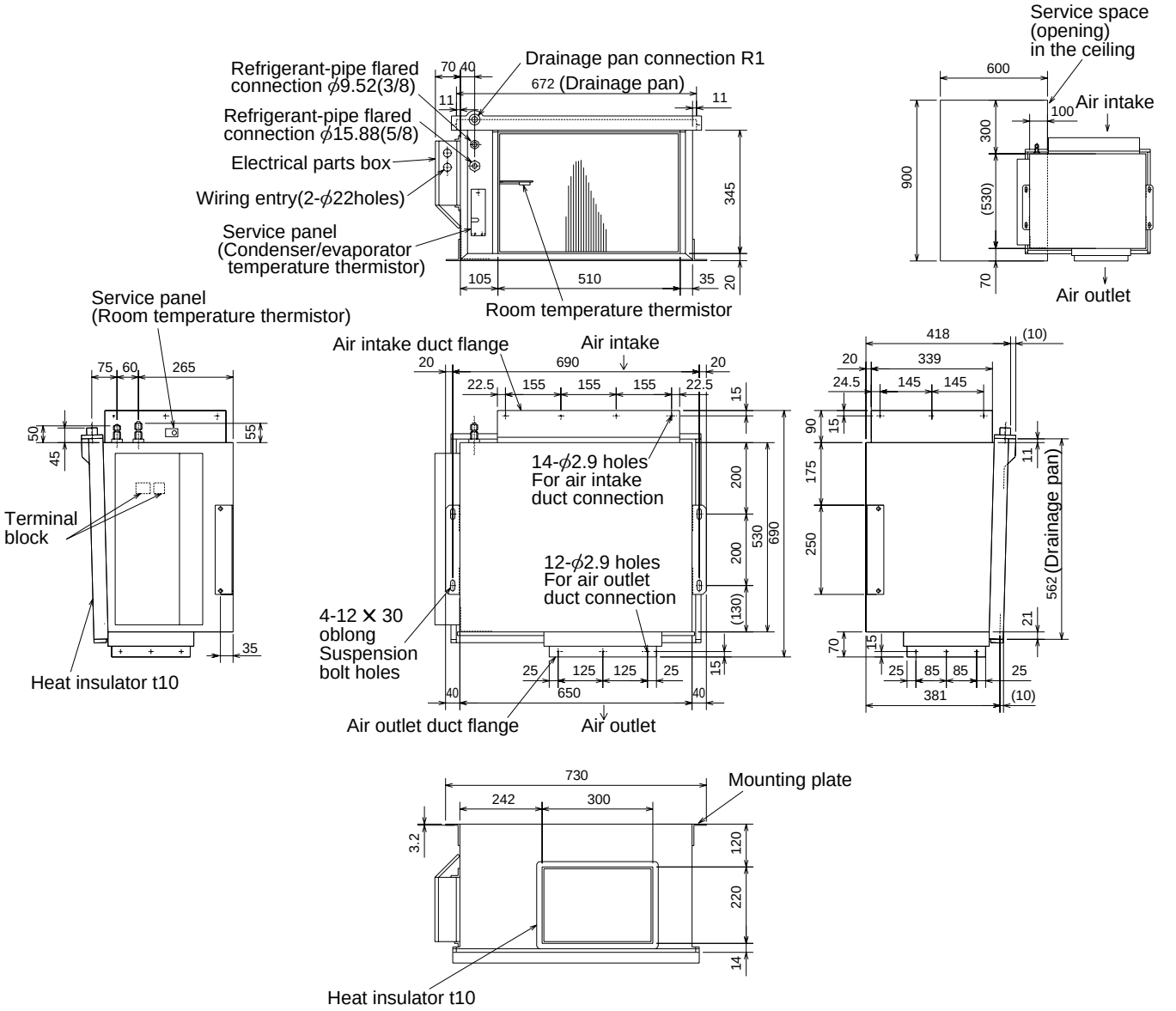


Model	A	B	C	D	E	F	G	H	J
RP60	1125	1090	1050	1012	7	840	8	Outdoor unit(SUZ) : 6.35 Other outdoor unit : 9.52 ※	15.88
RP71	1125	1090	1050	1012	7	840	8	9.52	15.88

※ Setting at shipment

PEA-RP71EA

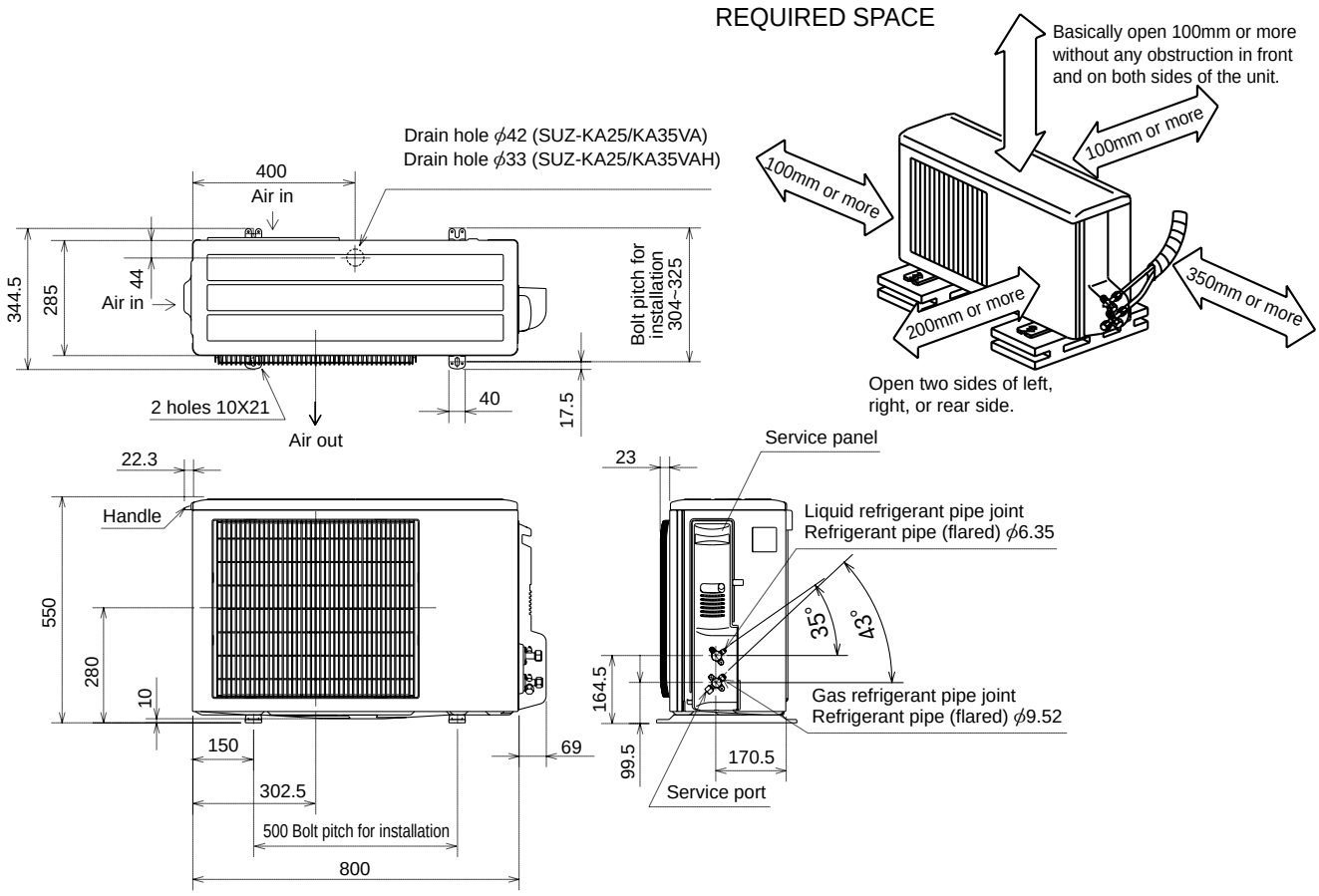
Unit : mm



OUTDOOR UNIT

Unit: mm

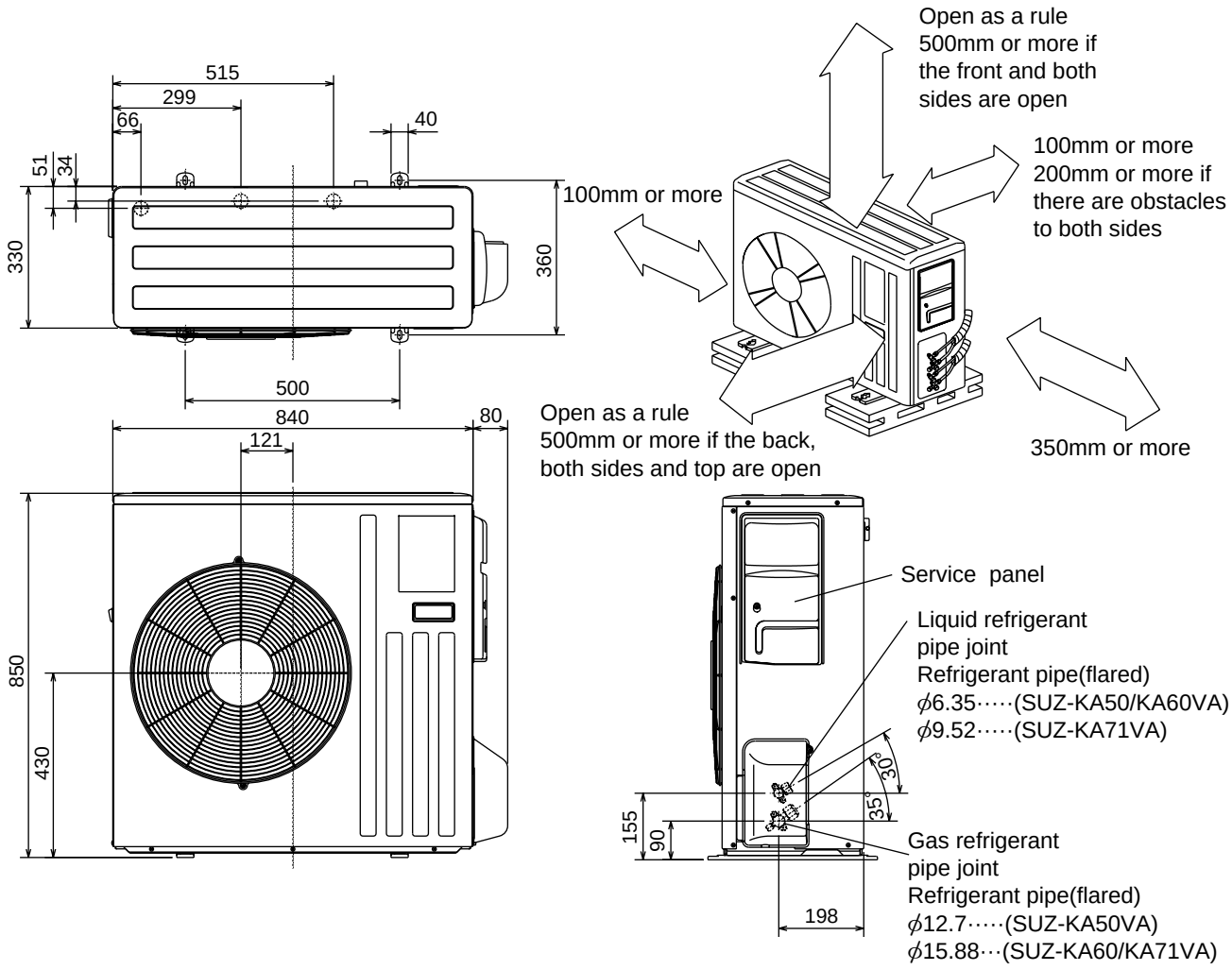
SUZ-KA25VA SUZ-KA25VAH
SUZ-KA35VA SUZ-KA35VAH



SUZ-KA50VA
SUZ-KA60VA
SUZ-KA71VA

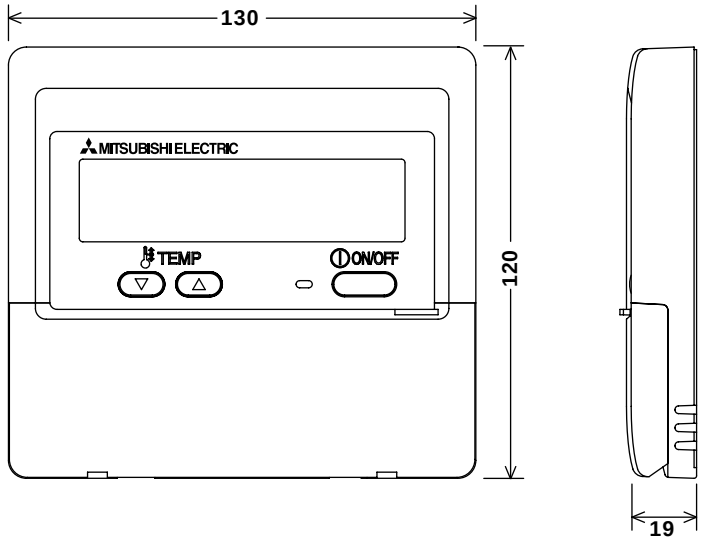
Unit: mm

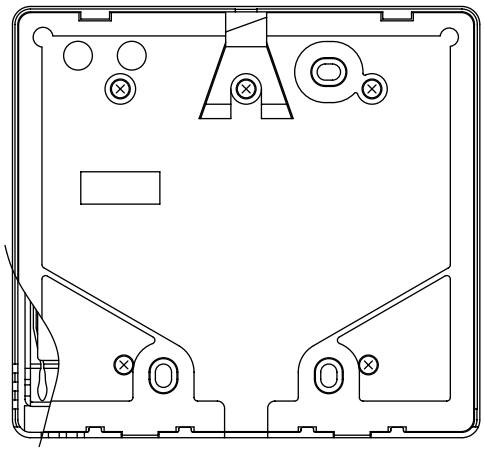
REQUIRED SPACE



WIRED REMOTE CONTROLLER

Unit : mm

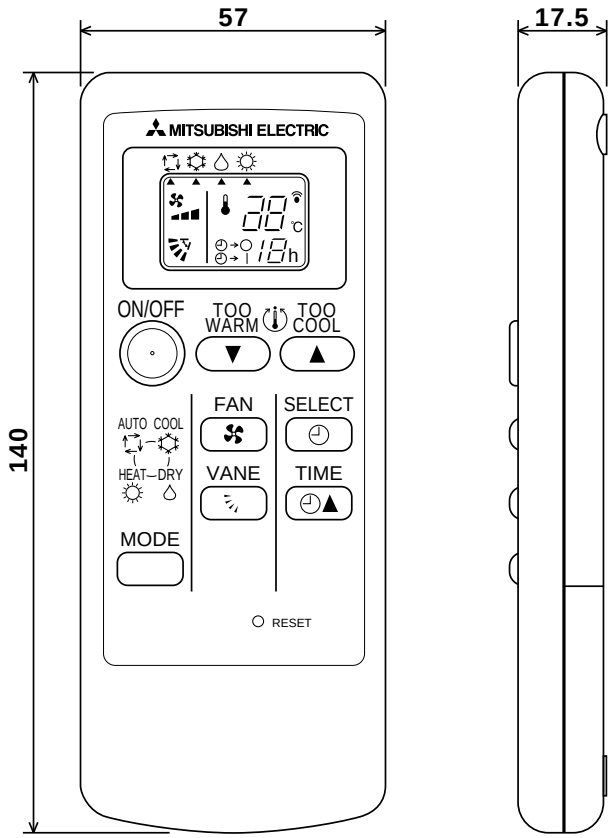


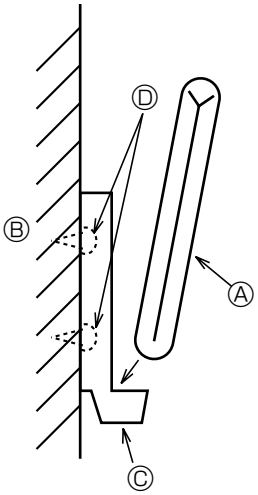


WIRELESS REMOTE CONTROLLER

Unit : mm

SLZ-KA25/35/50VAL





Installation area

- Area in which the remote controller is not exposed direct sunshine.
- Area in which there is no nearby heating source.
- Area in which the remote controller is not exposed to cold (or hot) winds.
- Area in which the remote controller can be operated easily
- Area in which the remote controller is beyond the reach of children.

Installation method

① Attach the remote controller holder to the desired location using two tapping screws.

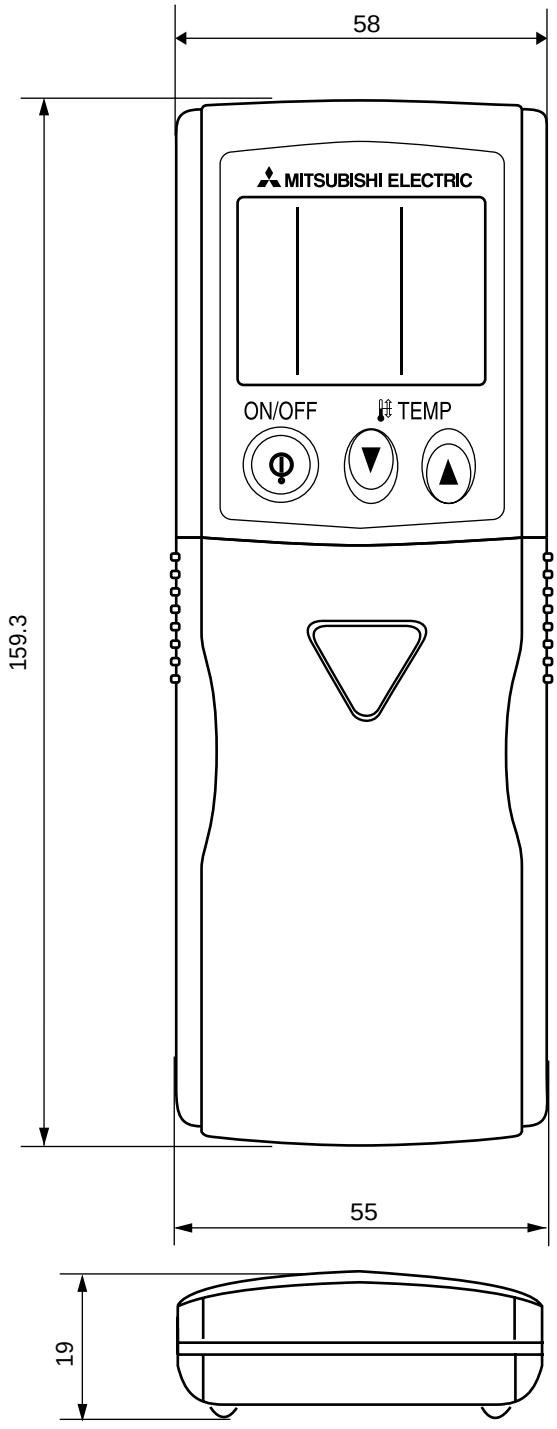
② Place the lower end of the controller into the holder.

Ⓐ Wireless remote controller (Accessory)
Ⓑ Wall
Ⓒ Remote controller holder (Accessory)
Ⓓ Fixing screw (Accessory)

- The signal can travel up to approximately 7 meters (in a straight line) within 45 degrees to both right and left of the center line of the receiver.
  In addition, the signal may not be received if there is interference of light of fluorescent lights or strong sunlight.

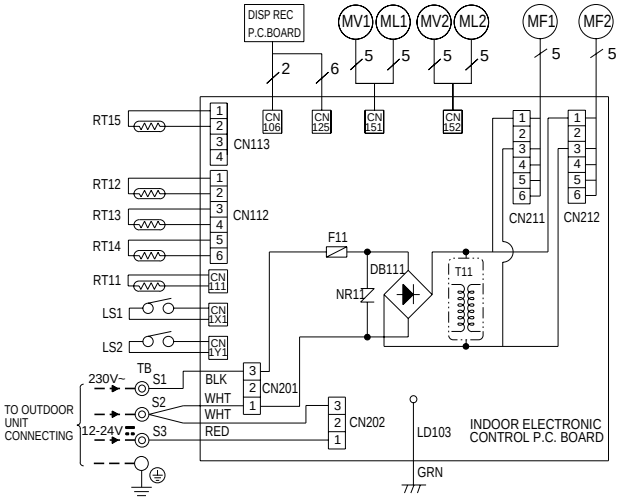
WIRELESS REMOTE CONTROLLER

Unit : mm



4 WIRING DIAGRAM

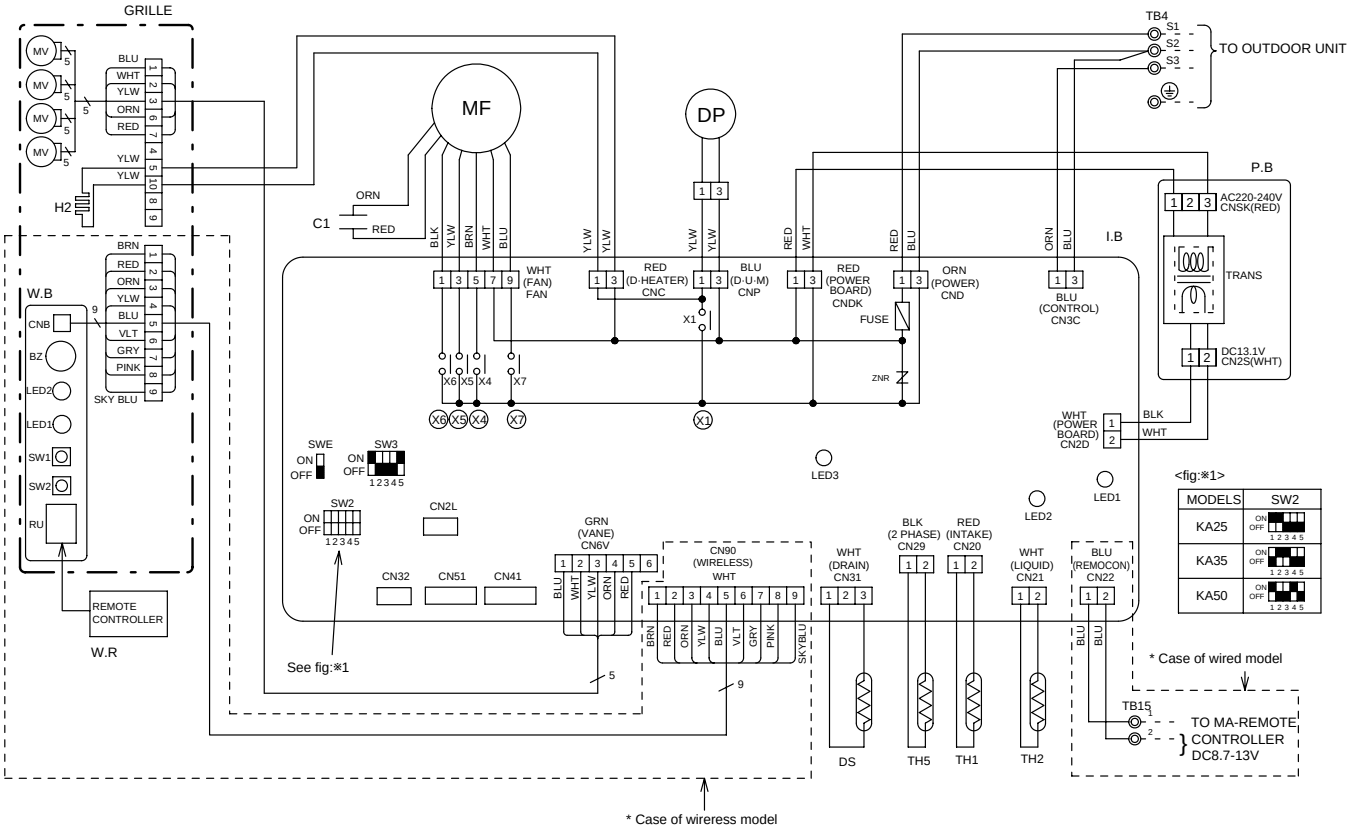
MFZ-KA25VA
MFZ-KA35VA
MFZ-KA50VA



SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
DB111	DIODE STACK	ML2	DAMPER LOCK MOTOR (LEFT)	RT14	INDOOR COIL THERMISTOR (MAIN 2)
F11	FUSE (T3.15AL250V)	MV1	HORIZONTAL VANE MOTOR	RT15	INDOOR COIL THERMISTOR (MAIN 3)
LS1	DAMPER LIMIT SWITCH (OPEN)	MV2	DAMPER MOTOR	T11	TRANSFORMER
LS2	DAMPER LIMIT SWITCH (CLOSE)	NR11	VARISTOR		
MF1	UPPER INDOOR FAN MOTOR	RT11	ROOM TEMPERATURE THERMISTOR		
MF2	LOWER INDOOR FAN MOTOR	RT12	INDOOR COIL THERMISTOR (MAIN 1)		
ML1	DAMPER LOCK MOTOR (RIGHT)	RT13	INDOOR COIL THERMISTOR (SUB)		

NOTE:1. About the outdoor side electric wiring refer to the outdoor unit electric wiring diagram for servicing.
2. Use copper conductors only. (For field wiring)
3. Symbols below indicate.
◎: Terminal block, □□□□: Connector

SLZ-KA25VAL SLZ-KA25VA
SLZ-KA35VAL SLZ-KA35VA
SLZ-KA50VAL SLZ-KA50VA



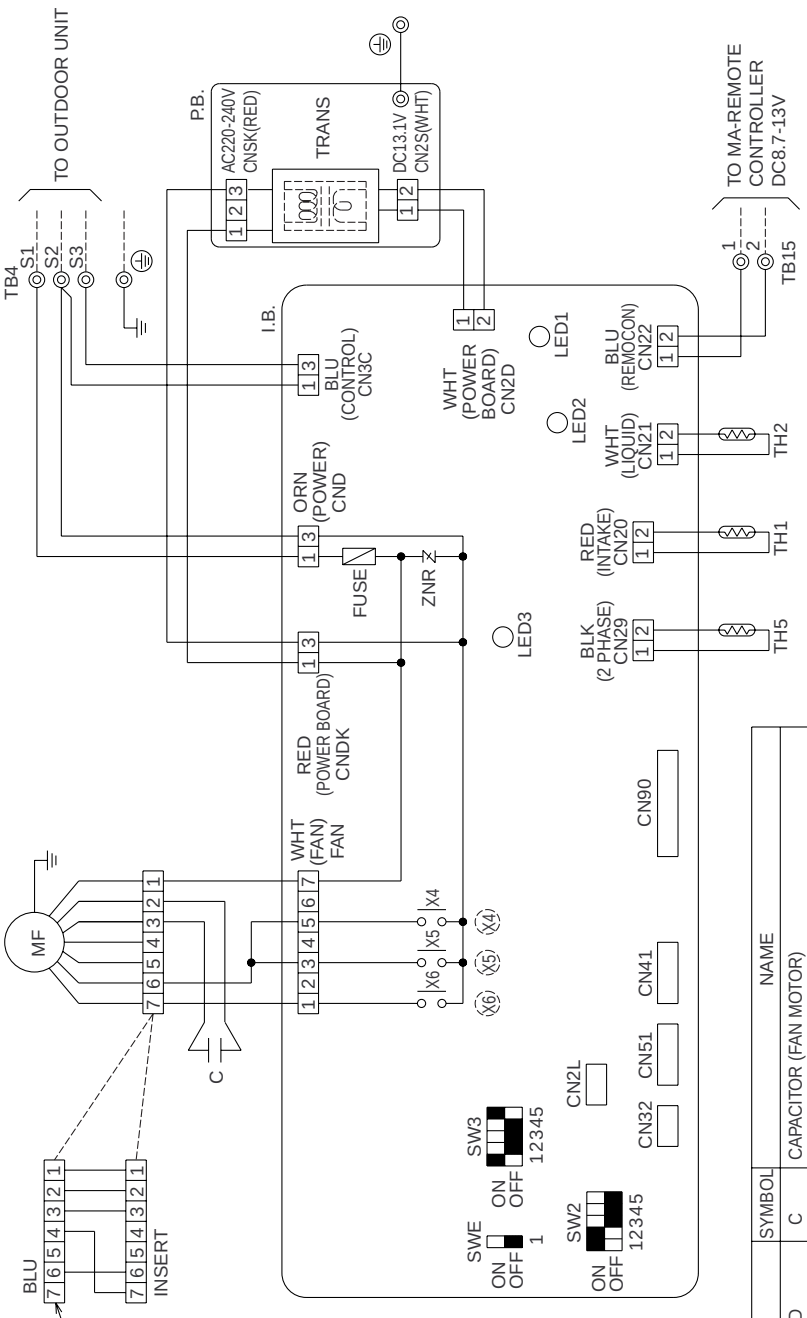
[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
P.B	INDOOR POWER BOARD	W.B	WIRELESS REMOTE CONTROLLER BOARD
I.B	INDOOR CONTROLLER BOARD	RU	RECEIVING UNIT
CN2L	CONNECTOR(LOSSNAY)	BZ	BUZZER
CN32	CONNECTOR(REMOTE SWITCH)	LED1	LED(RUN INDICATOR)
CN41	CONNECTOR(HA TERMINAL-A)	LED2	LED(HOT ADJUST)
CN51	CENTRALLY CONTROL	SW1	SWITCH(HEATING ON/OFF)
FUSE	FUSE(T6.3AL250V)	SW2	SWITCH(COOLING ON/OFF)
LED1	POWER SUPPLY(I.B)	C1	CAPACITOR(FAN MOTOR)
LED2	POWER SUPPLY(I.B)	DP	DRAIN-UP MACHINE
LED3	TRANSMISSION(INDOOR-OUTDOOR)	DS	DRAIN SENSOR
SW2	SWITCH(CAPACITY CODE)	H2	DEW PREVENTION HEATER
SW3	SWITCH(MODE SELECTION)	MF	FAN MOTOR
SWE	SWITCH(EMERGENCY OPERATION)	MV	VANE MOTOR
X1	DRAIN PUMP/DEW PREVENTION HEATER	TB4	TERMINAL BLOCK(INDOOR/OUTDOOR CONNECTING LINE)
X4	RELAY(FAN MOTOR LL)	TB15	TERMINAL BLOCK(REMOTE CONTROLLER TRANSMISSION LINE)
X5	RELAY(FAN MOTOR Lo)	TH1	ROOM TEMP.THERMISTOR (0°C/15kΩ,25°C/5.4kΩ DETECT)
X6	RELAY(FAN MOTOR Hi)	TH2	PIPE TEMP.THERMISTOR/LIQUID (0°C/15kΩ,25°C/5.4kΩ DETECT)
X7	RELAY(FAN MOTOR Me)	TH5	COND./EVA.TEMP.THERMISTOR (0°C/15kΩ,25°C/5.4kΩ DETECT)
ZNR	VARISTOR		

NOTES: 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, □□□:Connector, ◎:Terminal (block).

※ For details on how to operate self-diagnosis refer to the technical manuals etc.

SEZ-KC25VA

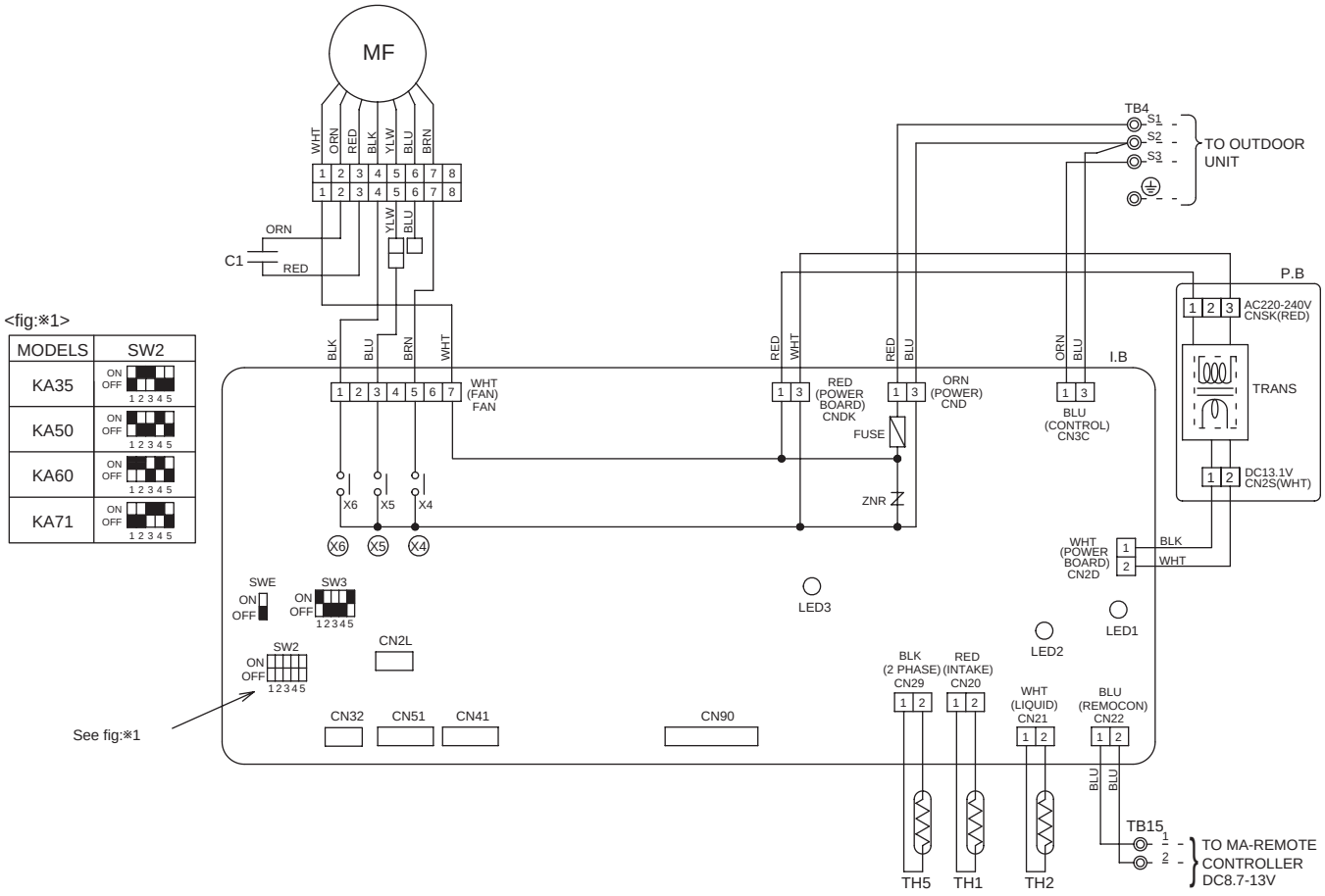


The motor connector is connected with 230V,240V power at factory shipment.
If 220V power is used, Insert the attachment.
Color/Power source
WHT/230,240V
BLU/220V

NOTES: 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,
□□□ : Connector, ◎ : Terminal.
4. The wiring between MA-REMOTE CONTROLLER and TB15 is included in the package.

SYMBOL		NAME	SYMBOL	NAME
P.B.		INDOOR POWER BOARD	C	CAPACITOR (FAN MOTOR)
I.B.		INDOOR CONTROLLER BOARD	MF	FAN MOTOR
	CN2L	CONNECTOR (LOSSNAY)	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)
	CN32	CONNECTOR (REMOTE SWITCH)	TB15	TERMINAL BLOCK (REMOTE CONTROLLER TRANSMISSION LINE)
	CN41	CONNECTOR (HA TERMINAL-A)		
	CN51	CENTRALLY CONTROL	TH1	INTAKE AIR TEMP. THERMISTOR (0˚C/15kΩ. 25˚C/5.2kΩ DETECT)
	CN90	CONNECTOR (WIRELESS)		
	FUSE	FUSE (6.3A)	TH2	PIPE TEMP. THERMISTOR/LIQUID (0˚C/15kΩ. 25˚C/5.2kΩ DETECT)
	LED1	POWER SUPPLY (I.B.)		
	LED2	POWER SUPPLY (I.B.)	TH5	COND./EVA. TEMP. THERMISTOR (0˚C/15kΩ. 25˚C/5.2kΩ DETECT)
	LED3	TRANSMISSION (INDOOR-OUTDOOR)		
	SW2	SWITCH (CAPACITY CODE)		
	SW3	SWITCH (MODE SELECTION)		
	SWE	SWITCH (EMERGENCY OPERATION)		
	X4	RELAY (FAN MOTOR LL)		
	X5	RELAY (FAN MOTOR Lo)		
	X6	RELAY (FAN MOTOR HI)		
	ZNR	VARISTOR		

SEZ-KA35VA
SEZ-KA50VA
SEZ-KA60VA
SEZ-KA71VA



<fig:※1>

MODELS	SW2
KA35	ON OFF 1 2 3 4 5
KA50	ON OFF 1 2 3 4 5
KA60	ON OFF 1 2 3 4 5
KA71	ON OFF 1 2 3 4 5

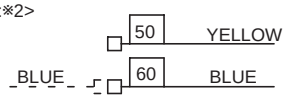
[LEGEND]

SYMBOL		NAME	SYMBOL	NAME
P.B		INDOOR POWER BOARD	C1	CAPACITOR(FAN MOTOR)
I.B		INDOOR CONTROLLER BOARD	MF	FAN MOTOR
	CN2L	CONNECTOR(LOSSNAY)	TB4	TERMINAL BLOCK(INDOOR/OUTDOOR CONNECTING LINE)
	CN32	CONNECTOR(REMOTE SWITCH)	TB15	TERMINAL BLOCK(REMOTE CONTROLLER TRANSMISSION LINE)
	CN41	CONNECTOR(HA TERMINAL-A)		
	CN51	CENTRALLY CONTROL	TH1	ROOM TEMP.THERMISTOR (0°C/15kΩ,25°C/5.4kΩ DETECT)
	CN90	CONNECTOR(WIRELESS)		
	FUSE	FUSE(T6.3AL250V)	TH2	PIPE TEMP.THERMISTOR/LIQUID (0°C/15kΩ,25°C/5.4kΩ DETECT)
	LED1	POWER SUPPLY(I.B)		
	LED2	POWER SUPPLY(I.B)	TH5	COND./EVA.TEMP.THERMISTOR (0°C/15kΩ,25°C/5.4kΩ DETECT)
	LED3	TRANSMISSION(INDOOR-OUTDOOR)		
	SW2	SWITCH(CAPACITY CODE)		
	SW3	SWITCH(MODE SELECTION)		
	SWE	SWITCH(EMERGENCY OPERATION)		
	X4	RELAY(FAN MOTOR LL)		
	X5	RELAY(FAN MOTOR Lo)		
	X6	RELAY(FAN MOTOR Hi)		
	ZNR	VARISTOR		

NOTES: 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, □□□ :Connector, ◎ :Terminal(block).
4.Since the indoor fan motor(MF) is connected with 50Hz power, if 60Hz power is used, change the wiring connection showing fig:※2.

<fig:※2>

Indoor Fan Motor(MF) for 60Hz

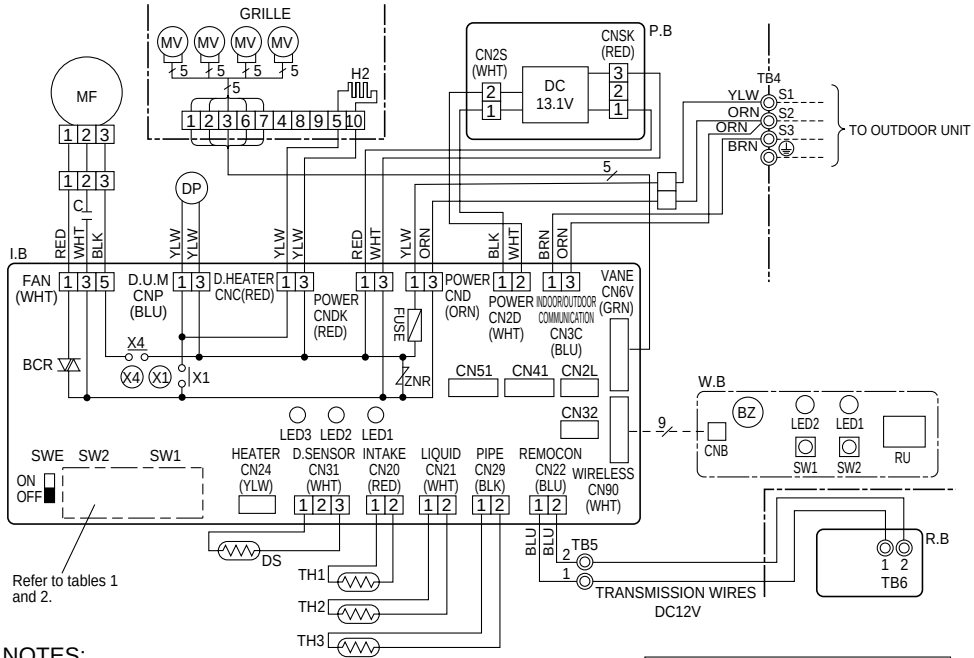


※For details on how to operate self-diagnosis refer to the technical manuals etc.

PLA-RP35AA PLA-RP50AA PLA-RP60AA PLA-RP71AA

[LEGEND]

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
P.B	INDOOR POWER BOARD	MF	FAN MOTOR	W.B	WIRELESS REMOTE CONTROLLER BOARD
I.B	INDOOR CONTROLLER BOARD	MV	VANE MOTOR	RU	RECEIVING UNIT
FUSE	FUSE(T6.3AL250V)	H2	DEW PREVENTION HEATER	BZ	BUZZER
ZNR	VARISTOR	DP	DRAIN-UP MACHINE	LED1	LED(RUN INDICATOR)
BCR	FAN CONTROL ELEMENT	DS	DRAIN SENSOR	LED2	LED(HOT ADJUST)
CN2L	CONNECTOR(LOSSNAY)	TB2	TERMINAL BLOCK (INDOOR UNIT POWER(OPTION))	SW1	SWITCH(HEATING ON/OFF)
CN32	CONNECTOR(REMOTE SWITCH)			SW2	SWITCH(COOLING ON/OFF)
CN41	CONNECTOR(HA TERMINAL-A)	TB4	TERMINAL BLOCK (INDOOR/ OUTDOOR CONNECTING LINE)		
CN51	CONNECTOR(CENTRALLY CONTROL)				
LED1	POWER SUPPLY(I.B)	TB5, TB6	TERMINAL BLOCK(REMOTE CONTROLLER TRANSMISSION LINE)		
LED2	POWER SUPPLY(I.B)				
LED3	TRANSMISSION(INDOOR-OUTDOOR)	TH1	ROOM TEMP.THERMISTOR (0˚C/15kΩ,25˚C/5.4kΩ DETECT)		
X1	RELAY(DRAIN PUMP)				
X4	RELAY(FAN MOTOR)	TH2	PIPE TEMP.THERMISTOR/LIQUID (0˚C/15kΩ,25˚C/5.4kΩ DETECT)		
SW1	SWITCH(MODEL SELECTION)※See table 1				
SW2	SWITCH(CAPACITY CORD)※See table 2	TH5	COND./EVA. TEMP. THERMISTOR (0˚C/15kΩ,25˚C/5.4kΩ DETECT)		
SWE	CONNECTOR(EMERGENCY OPERATION)				
C	CAPACITOR(FAN MOTOR)	R.B	WIRED REMOTE CONTROLLER BOARD		



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 dlagram shows the wiring of Indoor and Outdoor connecting wires (specification of 230V), adopting superimposed system of power and signal.

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

Table 1

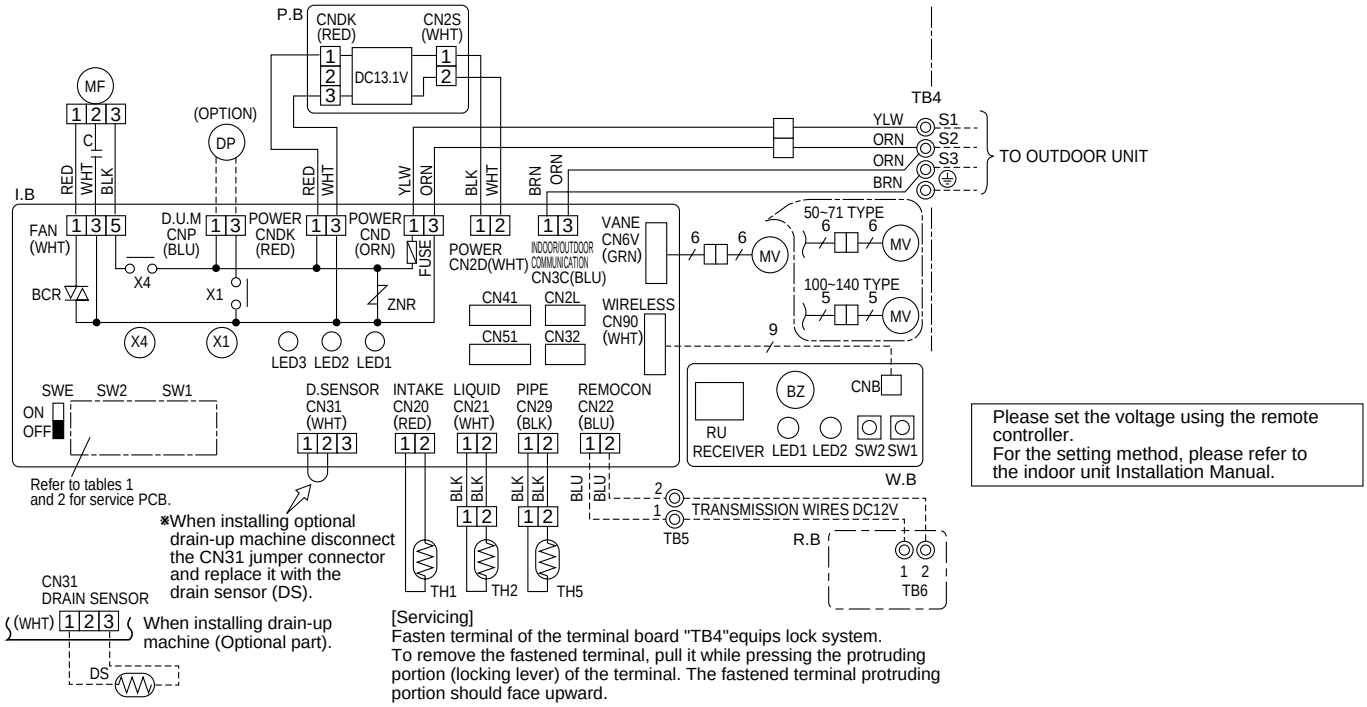
SW1	
MODELS	Service board
PLA-RP. AA	1 2 3 4 5 ON OFF

Table 2

SW2	
MODELS	Service board
PLA-RP35AA	1 2 3 4 5 ON OFF
PLA-RP50AA	1 2 3 4 5 ON OFF
PLA-RP60AA	1 2 3 4 5 ON OFF
PLA-RP71AA	1 2 3 4 5 ON OFF

PCA-RP50GA PCA-RP60GA PCA-RP71GA

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
P.B	INDOOR POWER BOARD	MF	FAN MOTOR	W.B	WIRELESS REMOTE CONTROLLER BOARD(OPTION)
I.B	INDOOR CONTROLLER BOARD	MV	VANE MOTOR	RU	RECEIVING UNIT
FUSE	FUSE (T6.3AL250V)	DP	DRAIN-UP MACHINE (OPTION)	BZ	BUZZER
ZNR	VARISTOR	DS	DRAIN SENSOR (OPTION)	LED1	LED(RUN INDICATOR)
CN2L	CONNECTOR(LOSSNAY)	TB2	TERMINAL BLOCK (HEATER) ※PCH-P.GAH models only or option for PCA RP.GA models.	LED2	LED(HOT ADJUST)
CN32	CONNECTOR(REMOTE SWITCH)			SW1	SWITCH(HEATING ON/OFF)
CN41	CONNECTOR(HA TERMINAL-A)	TB4	TERMINAL BLOCK(INDOOR/OUTDOOR CONNECTING LINE)	SW2	SWITCH(COOLING ON/OFF)
CN51	CONNECTOR(CENTRALLY CONTROL)	TB5,TB6	TERMINAL BLOCK(REMOTE CONTROLLER TRANSMISSION LINE)	HEATER	
SW1	SWITCH (MODEL SELECTION) ※See Table 1.			FS1,2	THERMAL FUSE(98℃10A:50GAH/117℃16A:100GAH 110℃16A:60,71,125,140GAH)
SW2	SWITCH (CAPACITY CODE) ※See Table 2.	TH1	ROOM TEMP.THERMISTOR (0℃/15kΩ, 25℃/5.4kΩ DETECT)	H1	HEATER
SWE	SWITCH(EMERGENCY OPERATION)			26H	HEATER THERMAL SWITCH
X1	RELAY(DRAIN PUMP)	TH2	PIPE TEMP.THERMISTOR/LIQUID (0℃/15kΩ, 25℃/5.4kΩ DETECT)	88H	HEATER CONTACTOR
X4	RELAY(FAN MOTOR)				
BCR	FAN CONTROL ELEMENT	TH5	COND./EVA.TEMP.THERMISTOR (0℃/15kΩ, 25℃/5.4kΩ DETECT)		
LED1	POWER SUPPLY(I.B)				
LED2	POWER SUPPLY(R.B)	R.B	WIRED REMOTE CONTROLLER BOARD		
LED3	TRANSMISSION(INDOOR-OUTDOOR)				
C	CAPACITOR(FAN MOTOR)				



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

[Servicing]
Fasten terminal of the terminal board "TB4"equips lock system.
To remove the fastened terminal, pull it while pressing the protruding portion (locking lever) of the terminal. The fastened terminal protruding portion should face upward.

Table 1

SW1	
MODELS	Service board
PCA-RP.GA	1 2 3 4 5 ON OFF

Table 2

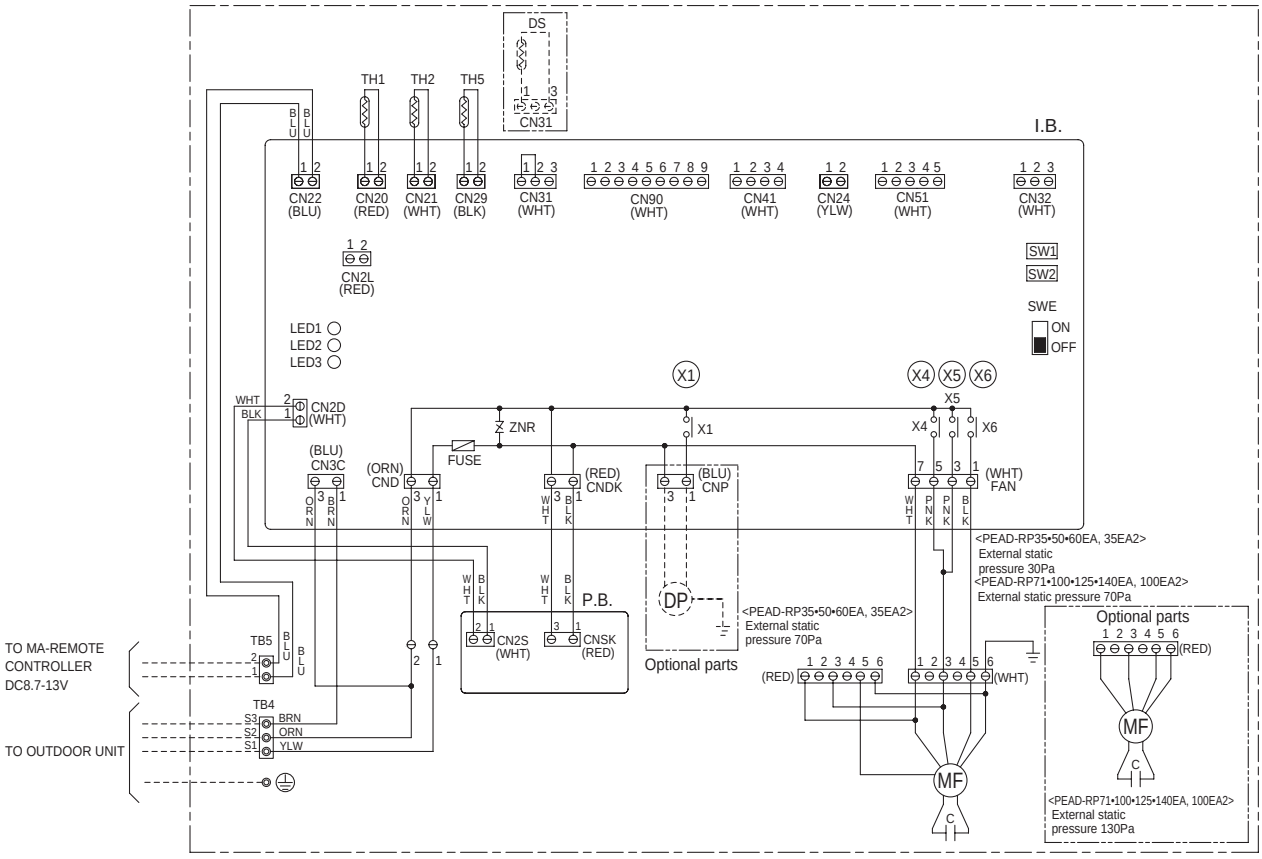
SW2	
MODELS	Service board
PCA-RP50GA	1 2 3 4 5 ON OFF
PCA-RP60GA	1 2 3 4 5 ON OFF
PCA-RP71GA	1 2 3 4 5 ON OFF

NOTES:
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. Make sure that the main power supply of the booster heater is independent.
4. Symbols used in wiring diagram above are,
   □□□ : Connector, ◎: Terminal (block).

PEAD-RP35EA2 PEAD-RP50EA PEAD-RP60EA PEAD-RP71EA

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I.B.	INDOOR CONTROLLER BOARD	SW2	SWITCH(CAPACITY CORD)	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)
FUSE	FUSE(T6.3AL250V)	SWE	SWITCH(EMERGENCY OPERATION)		
ZNR	VARISTOR	X1	RELAY(DRAIN PUMP)	TB5	TERMINAL BLOCK(REMOTE CONTROLLER)
CN2L	CONNECTOR(LOSSNAY)	X4	RELAY(FAN MOTOR)	TH1	INTAKE AIR TEMP. THERMISTOR (0℃ /15kΩ,25℃/5.4kΩ DETECT)
CN24	CONNECTOR(HEATER)	X5	RELAY(FAN MOTOR)		
CN32	CONNECTOR(REMOTE SWITCH)	X6	RELAY(FAN MOTOR)	TH2	PIPE TEMP. THERMISTOR/LIQUID (0℃ /15kΩ,25℃/5.4kΩ DETECT)
CN41	CONNECTOR(HA TERMINAL-A)	P.B.	INDOOR POWER BOARD		
CN51	CONNECTOR(CENTRALLY CONTROL)	DRAIN PUMP	(OPTIONAL PARTS)	TH5	COND./EVA. TEMP. THERMISTOR (0℃ /15kΩ,25℃/5.4kΩ DETECT)
CN90	CONNECTOR(WIRELESS)	DP	DRAIN PUMP		
LED1	POWER SUPPLY(I.B.)	DS	DRAIN SENSOR		
LED2	POWER SUPPLY(REMOTE CONTROLLER)	C	CAPACITOR(FAN MOTOR)		
LED3	TRANSMISSION(INDOOR•OUTDOOR)	MF	FAN MOTOR		
SW1	SWITCH(MODEL SELECTION)				

INSIDE SECTION OF CONTROL BOX

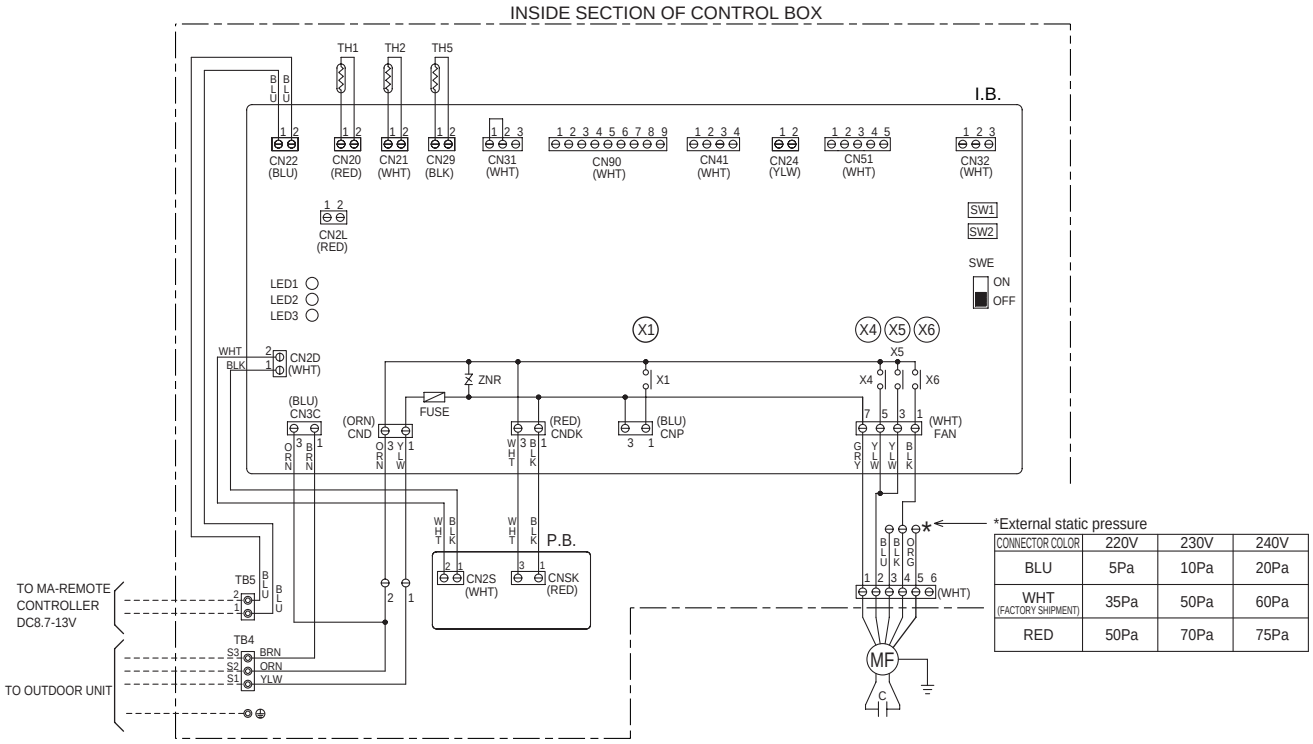


MODELS	SW1 Model selection switch	SW2 Capacity cord switch
35EA2	1 2 3 4 5 ON OFF	1 2 3 4 5 ON OFF
50EA		1 2 3 4 5 ON OFF
60EA		1 2 3 4 5 ON OFF
71EA		1 2 3 4 5 ON OFF

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,
⊖⊖⊖: CONNECTOR, ◎◎◎ : TERMINAL.
4.THE WIRING BETWEEN MA-REMOTE CONTROLLER AND TB5 IS INCLUDED IN THE PACKAGE.

PEAD-RP60GA PEAD-RP71GA

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
I.B.	INDOOR CONTROLLER BOARD	SW1	SWITCH(MODEL SELECTION)	TB5	TERMINAL BLOCK(REMOTE CONTROLLER)
FUSE	FUSE(T6.3AL250V)	SW2	SWITCH(CAPACITY CORD)	TH1	INTAKE AIR TEMP.THERMISTOR (0℃ /15kΩ,25℃/5.4kΩ DETECT)
ZNR	VARISTOR	SWE	SWITCH(EMERGENCY OPERATION)		
CN2L	CONNECTOR(LOSSNAY)	X1	RELAY(DRAIN PUMP)	TH2	PIPE TEMP. THERMISTOR/LIQUID (0℃ /15kΩ,25℃/5.4kΩ DETECT)
CN24	CONNECTOR(HEATER)	X4	RELAY(FAN MOTOR)		
CN32	CONNECTOR(REMOTE SWITCH)	X5	RELAY(FAN MOTOR)	TH5	COND./EVA. TEMP. THERMISTOR (0℃ /15kΩ,25℃/5.4kΩ DETECT)
CN41	CONNECTOR(HA TERMINAL-A)	X6	RELAY(FAN MOTOR)		
CN51	CONNECTOR(CENTRALLY CONTROL)	P.B.	INDOOR POWER BOARD		
CN90	CONNECTOR(WIRELESS)	C	CAPACITOR(FAN MOTOR)		
LED1	POWER SUPPLY(I.B.)	MF	FAN MOTOR		
LED2	POWER SUPPLY(REMOTE CONTROLLER)	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)		
LED3	TRANSMISSION(INDOOR•OUTDOOR)				

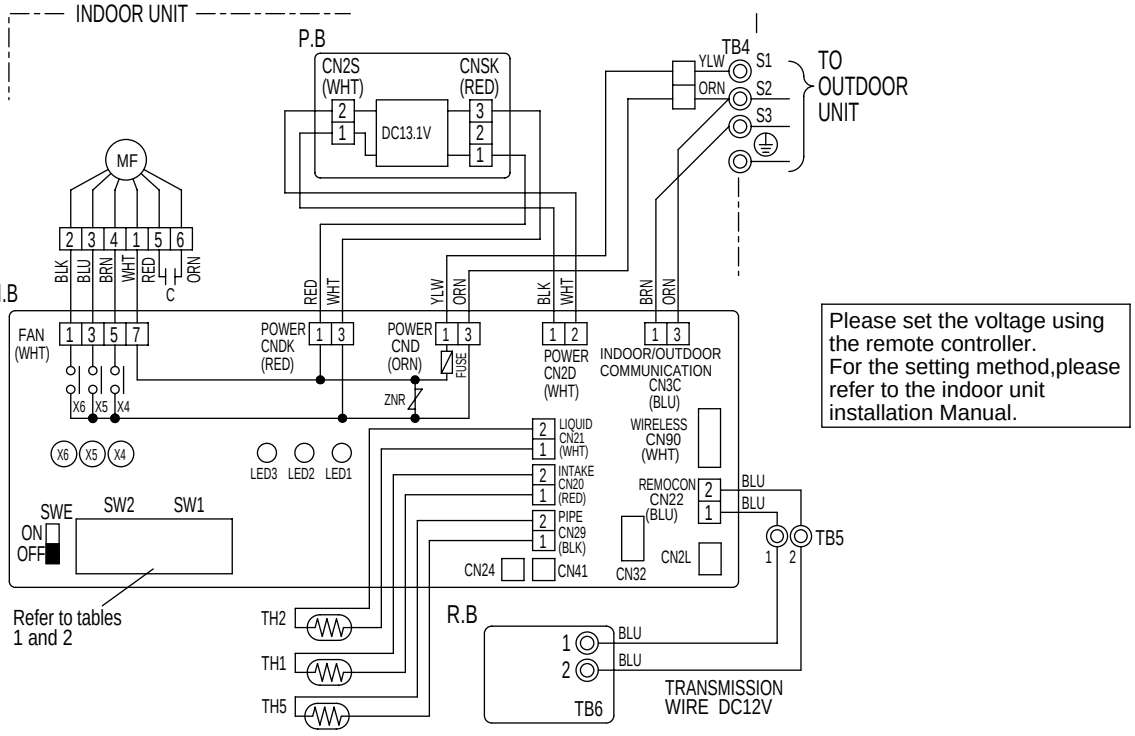


MODELS	SW1 Model selection switch	SW2 Capacity cord switch
60GA	1 2 3 4 5 ON OFF	1 2 3 4 5 ON OFF
71GA		1 2 3 4 5 ON OFF

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,
⊖⊖⊖: CONNECTOR, ◎◎◎ : TERMINAL.
4.THE WIRING BETWEEN MA-REMOTE CONTROLLER AND TB5 IS INCLUDED IN THE PACKAGE.

PEA-RP71EA

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
P.B	INDOOR POWER BOARD	I.B SW1	SWITCH(MODEL SELECTION)※See table 1	TB2	TERMINAL BLOCK(INDOOR UNIT POWER(OPTION))
I.B	INDOOR CONTROLLER BOARD	SW2	SWITCH(CAPACITY CODE)※See table 2	TB4	TERMINAL BLOCK (INDOOR/OUTDOOR CONNECTING LINE)
FUSE	FUSE(T6.3AL250V)	SWE	SWITCH(EMERGENCY OPERATION)		
ZNR	VARISTOR	X4	RELAY(FAN MOTOR)	TB5	TERMINAL BLOCK(REMOTE CONTROLLER TRANSMISSION LINE)
CN2L	CONNECTOR(LOSSNAY)	X5	RELAY(FAN MOTOR)		
CN32	CONNECTOR(REMOTE SWITCH))	X6	RELAY(FAN MOTOR)	TH1	ROOM TEMPERATURE THERMISTOR (0℃/15KΩ, 25℃/5.4KΩ DETECT)
CN41	CONNECTOR(HA TERMINAL-A)	R.B	REMOTE CONTROLLER BOARD		
CN51	CONNECTOR(CENTRALLY CONTROL)	TB6	TERMINAL BLOCK(REMOTE CONTROLLER TRANSMISSON LINE)	TH2	PIPE TEMPERATURE THERMISTOR/LIQUID (0℃/15KΩ, 25℃/5.4KΩ DETECT)
LED1	POWER SUPPLY(I.B)				
LED2	POWER SUPPLY(R.B)	C	CAPACITOR(FAN MOTOR)	TH5	COND./EVA. TEMPERATURE THERMISTOR (0℃/15KΩ, 25℃/5.4KΩ DETECT)
LED3	TRANSMISSOION(INDOOR • OUTDOOR)	MF	FAN MOTOR		



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

Table 1

SW1	
MODELS	Manufacture/Service
PEA-RP.EA	1 2 3 4 5 ON OFF

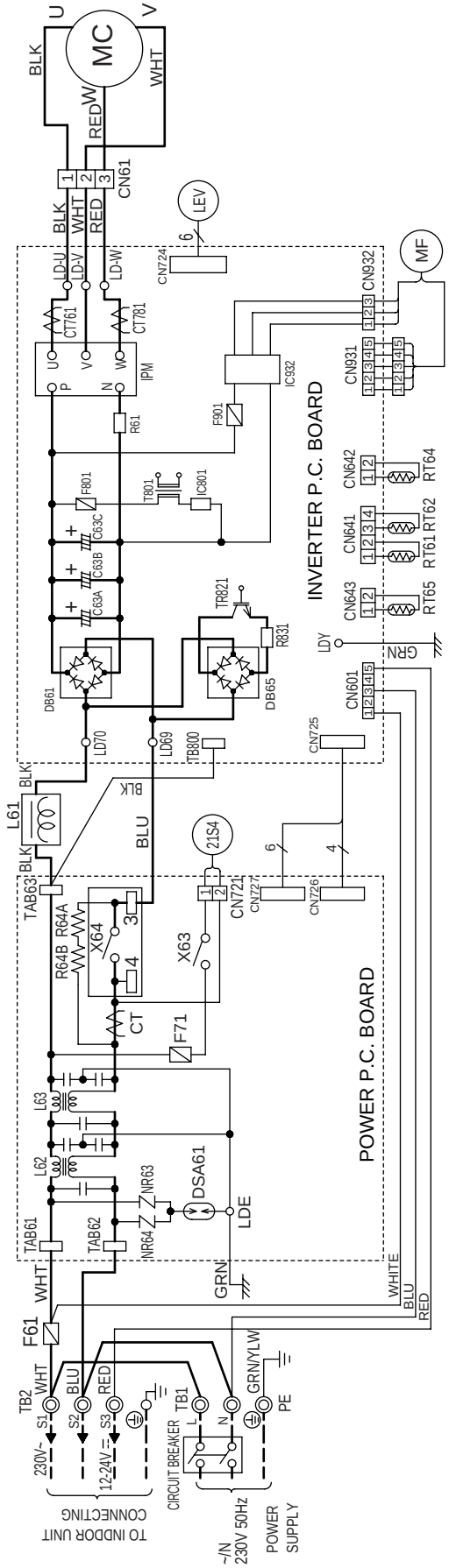
Table 2

SW2	
MODELS	Manufacture/Service
PEA-RP71EA	1 2 3 4 5 ON OFF

[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 of power and signal.

SUZ-KA25VA
SUZ-KA35VA

MODELS WIRING DIAGRAM

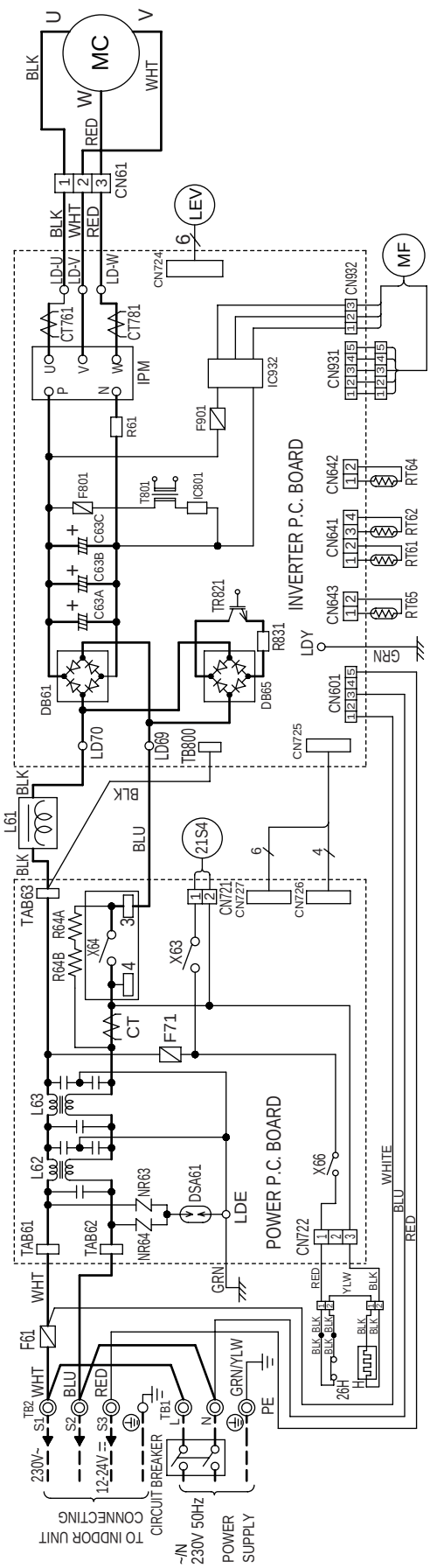


NOTE:1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2.Use copper conductors only. (For field wiring)
3. Symbols below indicate.
◎: Terminal block, □□□: Connector

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CT,CT761,CT781	CURRENT TRANSFORMER	L61	REACTOR	R61,R831	CURRENT-DETECTING RESISTOR
C63A,C63B,C63C	SMOOTHING CAPACITOR	L62,L63	CMC COIL	R64A,R64B	CURRENT-LIMITING RESISTOR
DB61,DB65	DIODE MODULE	MC	COMPRESSOR	TB1,TB2	TERMINAL BLOCK
DSA61	SURGE ABSORBER	MF	OUTDOOR FAN MOTOR	TR821	SWITCHING POWER TRANSISTOR
F61	FUSE (T20AL250V)	NR63,NR64	VARISTOR	T801	TRANSFORMER
F71	FUSE (T3.15AL250V)	RT61	DEFROST THERMISTOR	X63,X64	RELAY
F801,F901	FUSE (T3.15AL250V)	RT62	DISCHARGE TEMPERATURE THERMISTOR	21S4	R.V. COIL
IC801	INTELLIGENT POWER DEVICE	RT64	FIN TEMPERATURE THERMISTOR	LEV	EXPANSION VALVE COIL
IPM,IC932	INTELLIGENT POWER MODULE	RT65	AMBIENT TEMPERATURE THERMISTOR		

SUZ-KA25VAH
SUZ-KA35VAH

MODELS WIRING DIAGRAM

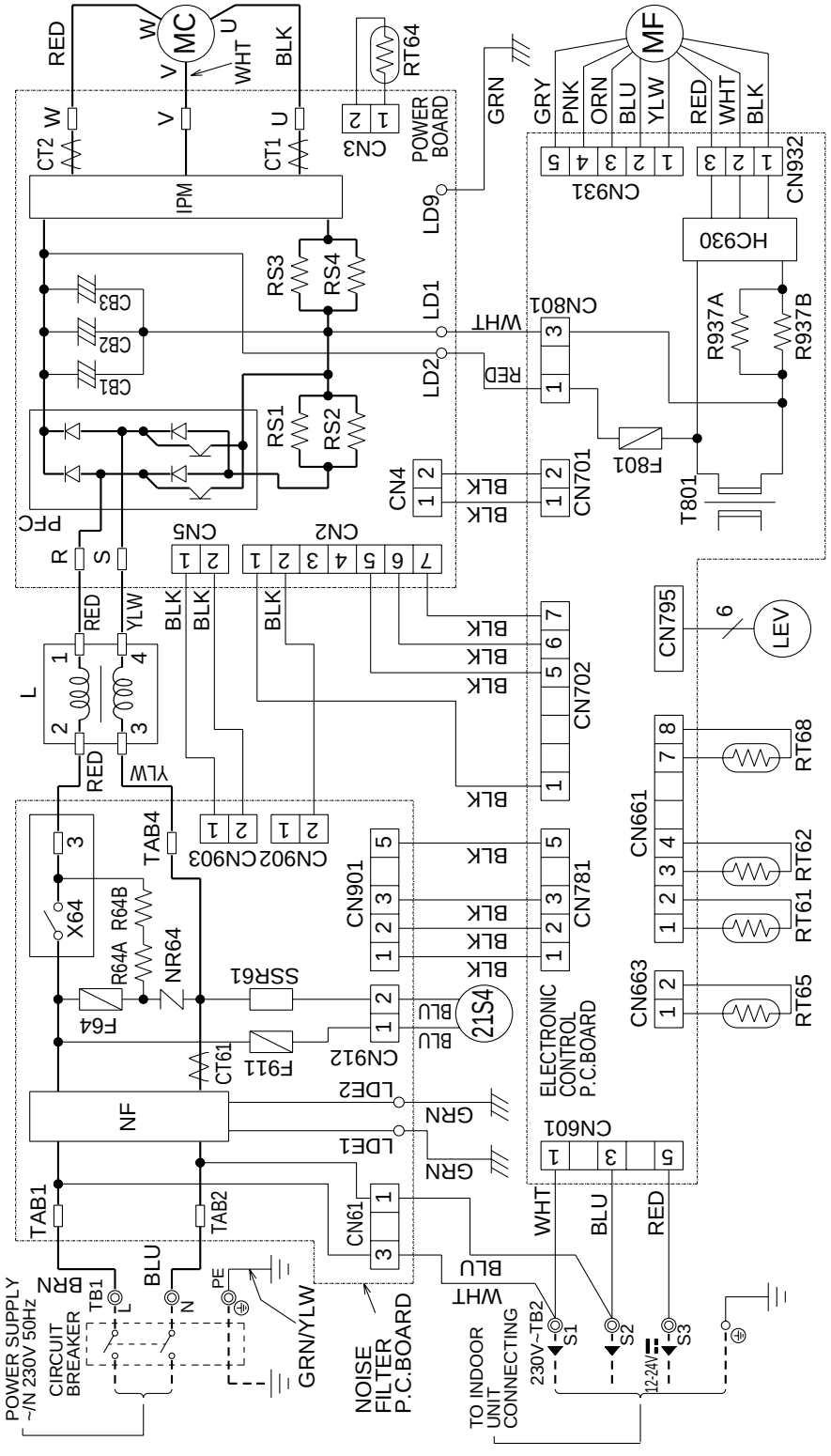


NOTE:1. About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2.Use copper conductors only. (For field wiring)
3. Symbols below indicate.
◎: Terminal block, □□□: Connector

SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CT,CT761,CT781	CURRENT TRANSFORMER	L61	REACTOR	R64A,R64B	CURRENT-LIMITING RESISTOR
C63A,C63B,C63C	SMOOTHING CAPACITOR	L62,L63	CMC COIL	TB1,TB2	TERMINAL BLOCK
DB61,DB65	DIODE MODULE	MC	COMPRESSOR	TR821	SWITCHING POWER TRANSISTOR
DSA61	SURGE ABSORBER	MF	OUTDOOR FAN MOTOR	T801	TRANSFORMER
F61	FUSE (T20AL250V)	NR63,NR64	VARISTOR	X63,X64,X66	RELAY
F71	FUSE (T3.15AL250V)	RT61	DEFROST THERMISTOR	21S4	R.V. COIL
F801,F901	FUSE (T3.15AL250V)	RT62	DISCHARGE TEMPERATURE THERMISTOR	H	DEFROST HEATER
IC801	INTELLIGENT POWER DEVICE	RT64	FIN TEMPERATURE THERMISTOR	26H	HEATER PROTECTOR
IPM,IC932	INTELLIGENT POWER MODULE	RT65	AMBIENT TEMPERATURE THERMISTOR		
LEV	EXPANSION VALVE COIL	R61,R831	CURRENT-DETECTING RESISTOR		

SUZ-KA50VA
SUZ-KA60VA

MODELS WIRING DIAGRAM



NOTES: 1.About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2.Use copper conductors only (for field wiring).
3.Symbols below indicate.
◎:Terminal block □□□:Connector

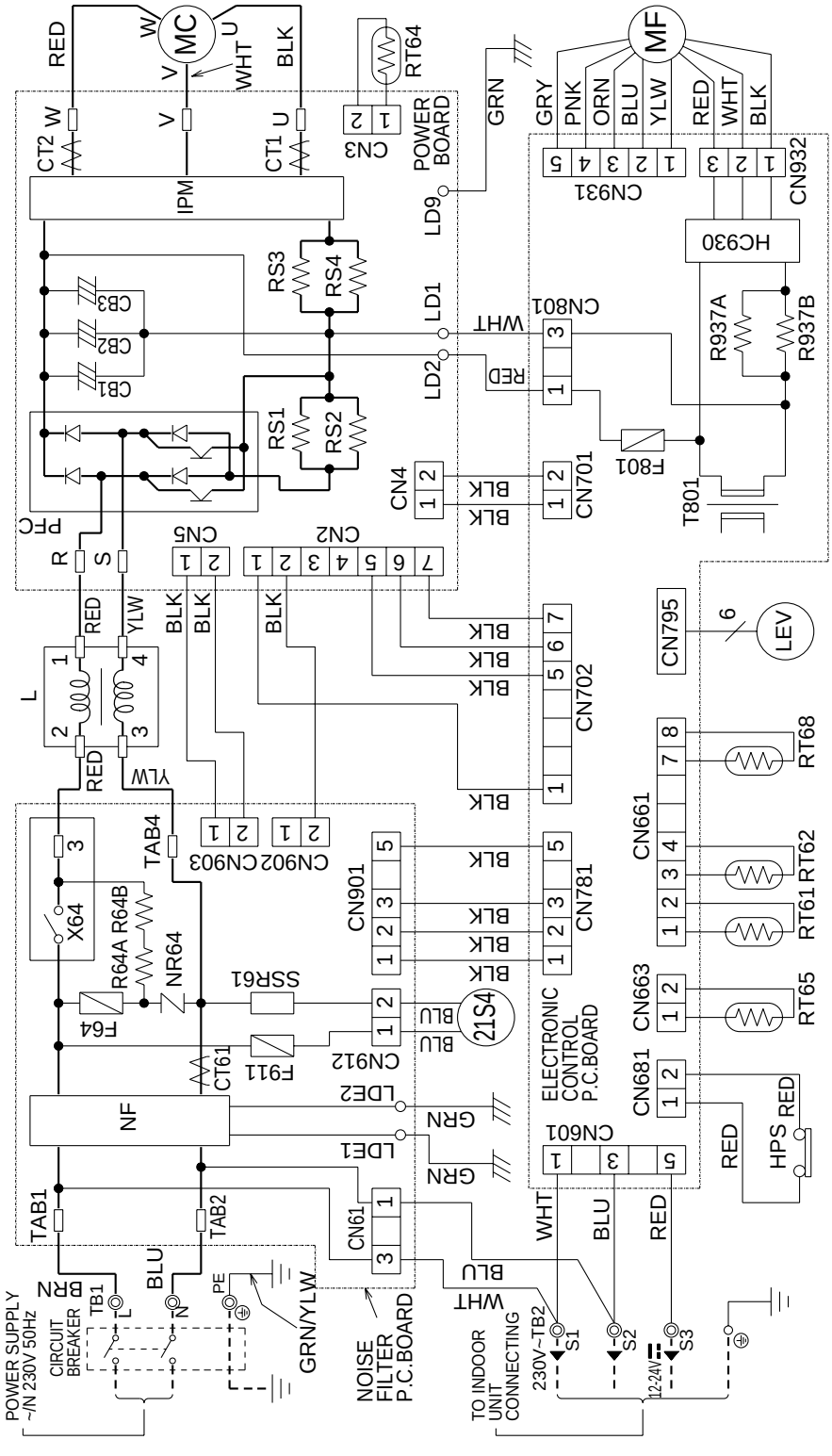
SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR
CT1, 2	CURRENT TRANSFORMER
CT61	CURRENT TRANSFORMER
F64	FUSE (T2AL 250V)
F801	FUSE (T3.15AL 250V)
F911	FUSE (T1AL 250V)
HC930	INTELLIGENT POWER MODULE
IPM	INTELLIGENT POWER MODULE
L	REACTOR
LEV	EXPANSION VALVE COIL

SYMBOL	NAME
MC	COMPRESSOR
MF	OUTDOOR FAN MOTOR
NF	NOISE FILTER
NR64	VARISTOR
PFC	POWER FACTOR CONTROLLER
R64A,B	RESISTOR
R937A, B	RESISTOR
RS1~4	RESISTOR
RT61	DEFROST THERMISTOR
RT62	DISCHARGE TEMPERATURE THERMISTOR

SYMBOL	NAME
RT64	FIN TEMPERATURE THERMISTOR
RT65	AMBIENT TEMPERATURE THERMISTOR
RT68	OUTDOOR HEAT EXCHANGER TEMPERATURE THERMISTOR
SSR61	SOLENOID COIL RELAY
T801	TRANSFORMER
TB1	TERMINAL BLOCK
TB2	TERMINAL BLOCK
X64	RELAY
21S4	R.V. COIL

SUZ-KA71VA

MODEL WIRING DIAGRAM



NOTES: 1.About the indoor side electric wiring refer to the indoor unit electric wiring diagram for servicing.
2.Use copper conductors only (for field wiring).
3.Symbols below indicate.
◎:Terminal block □□□:Connector

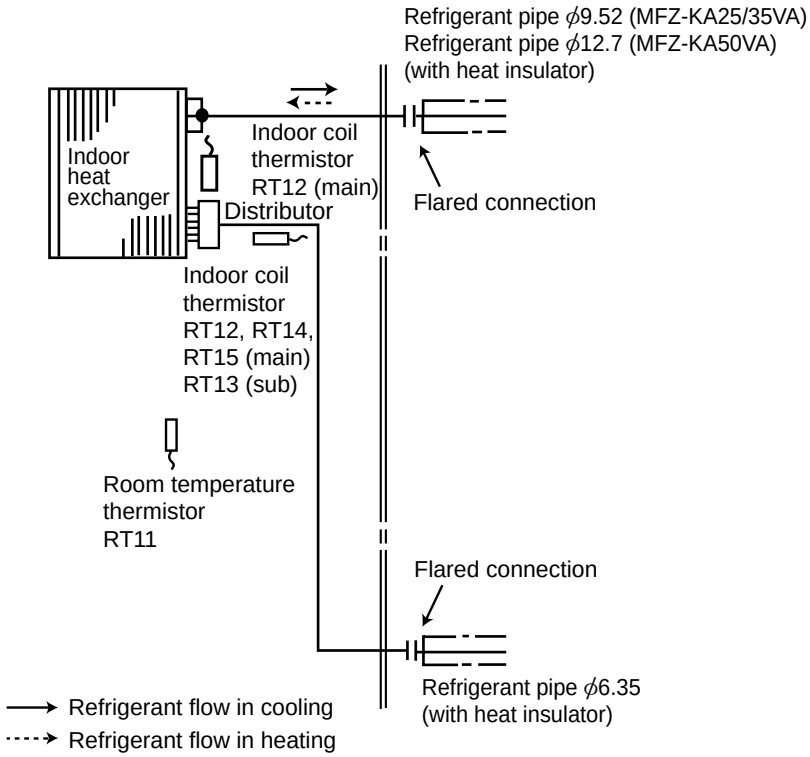
SYMBOL	NAME	SYMBOL	NAME	SYMBOL	NAME
CB1~3	SMOOTHING CAPACITOR	MC	COMPRESSOR	RT65	AMBIENT TEMPERATURE THERMISTOR
CT1, 2	CURRENT TRANSFORMER	MF	OUTDOOR FAN MOTOR	RT68	OUTDOOR HEAT EXCHANGER TEMPERATURE THERMISTOR
CT61	CURRENT TRANSFORMER	NF	NOISE FILTER		
F64	FUSE (T2AL 250V)	NR64	VARISTOR	SSR61	SOLENOID COIL RELAY
F801	FUSE (T3.15AL 250V)	PFC	POWER FACTOR CONTROLLER	T801	TRANSFORMER
F911	FUSE (T1AL 250V)	R64A,B	RESISTOR	TB1	TERMINAL BLOCK
HC930	INTELLIGEMT POWER MODULE	R937A, B	RESISTOR	TB2	TERMINAL BLOCK
HPS	HIGH PRESSURE SWITCH	RS1~4	RESISTOR	X64	RELAY
IPM	INTELLIGEMT POWER MODULE	RT61	DEFROST THERMISTOR	21S4	R.V. COIL
L	REACTOR	RT62	DISCHARGE TEMPERATURE THERMISTOR		
LEV	EXPANSION VALVE COIL	RT64	FIN TEMPERATURE THERMISTOR		

5 REFRIGERANT SYSTEM DIAGRAM

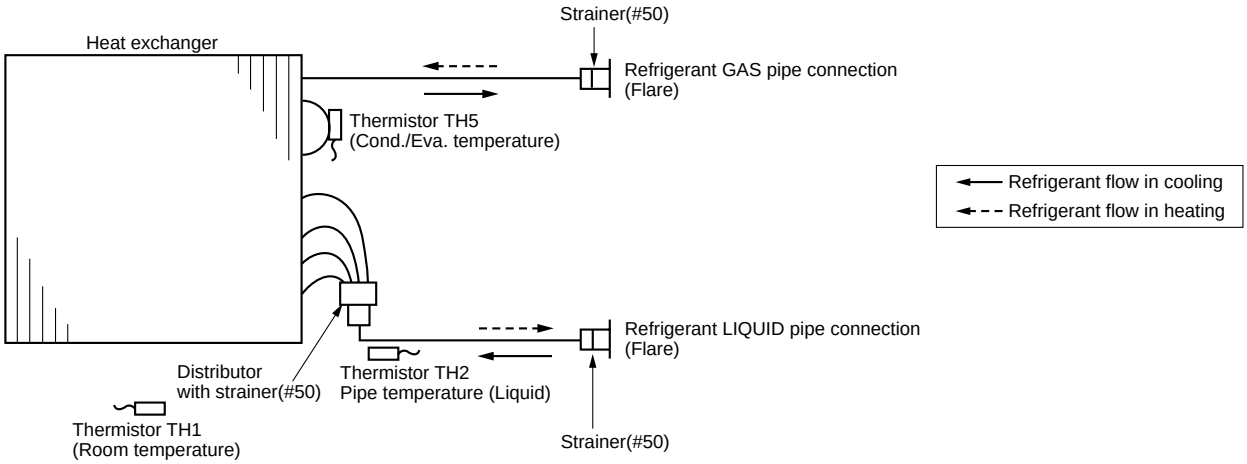
5-1. INDOOR UNIT

Unit : mm

MFZ-KA25VA
MFZ-KA35VA
MFZ-KA50VA



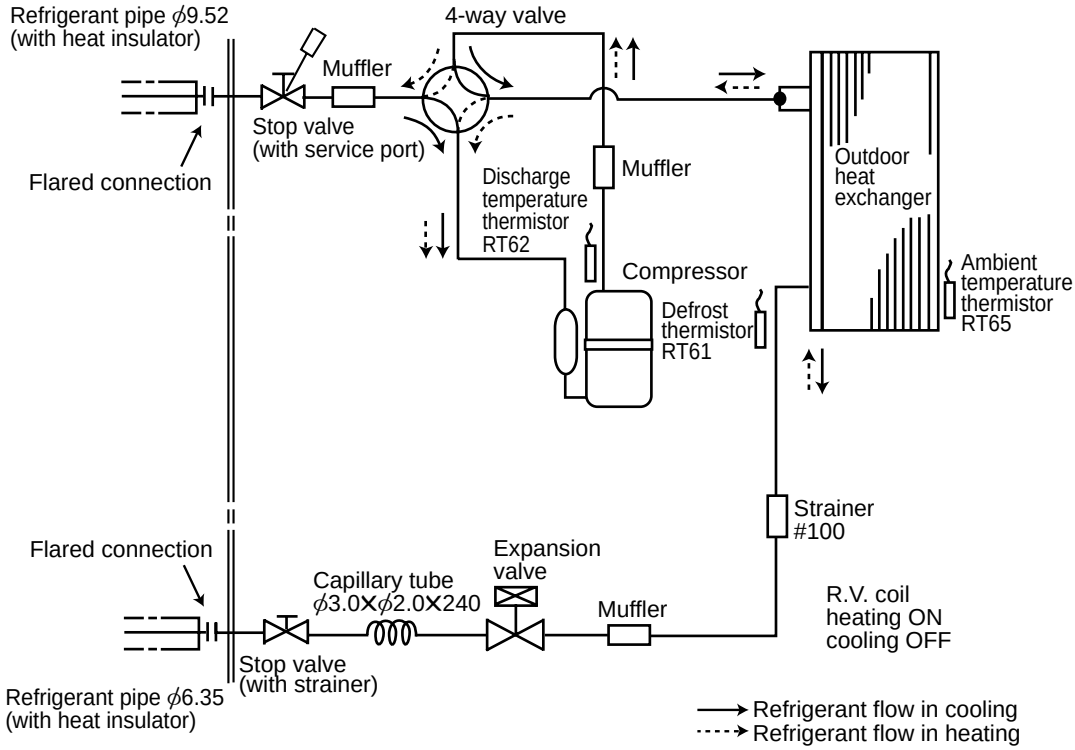
SLZ-KA·VA **SLZ-KA·VAL** **SEZ-KC·VA** **SEZ-KA·VA**
PLA-RP·AA **PCA-RP·GA** **PEAD-RP·EA(2)** **PEAD-RP·GA**
PEA-RP·EA



5-2. OUTDOOR UNIT

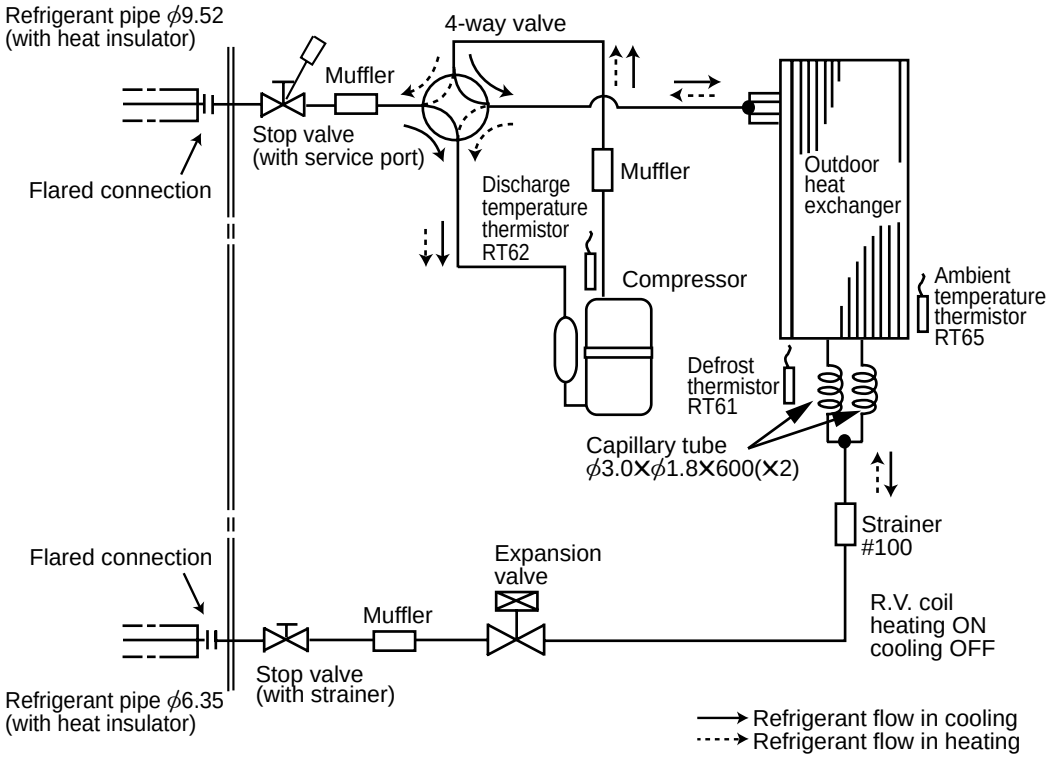
Unit:mm

SUZ-KA25VA, SUZ-KA25VAH



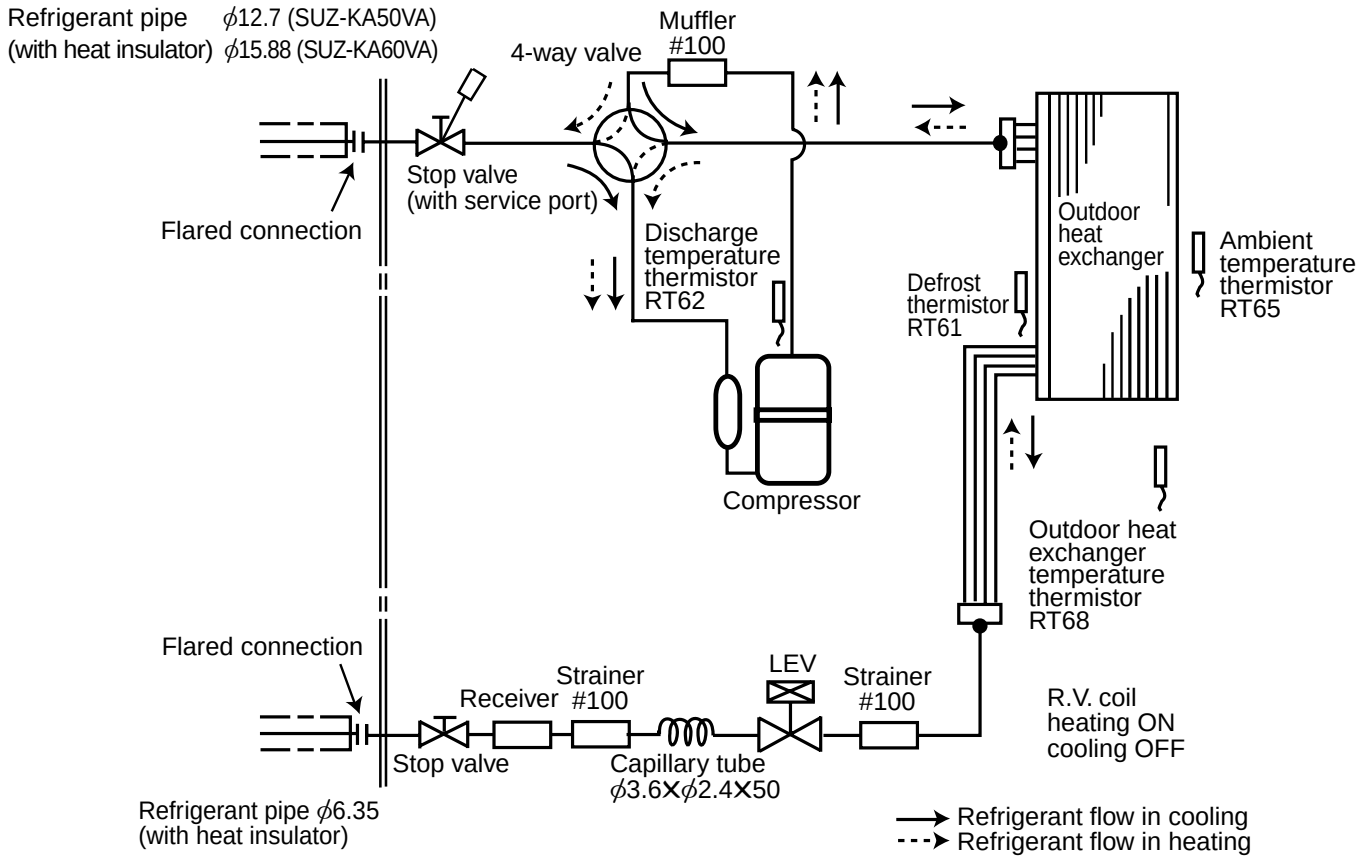
SUZ-KA35VA, SUZ-KA35VAH

Unit:mm



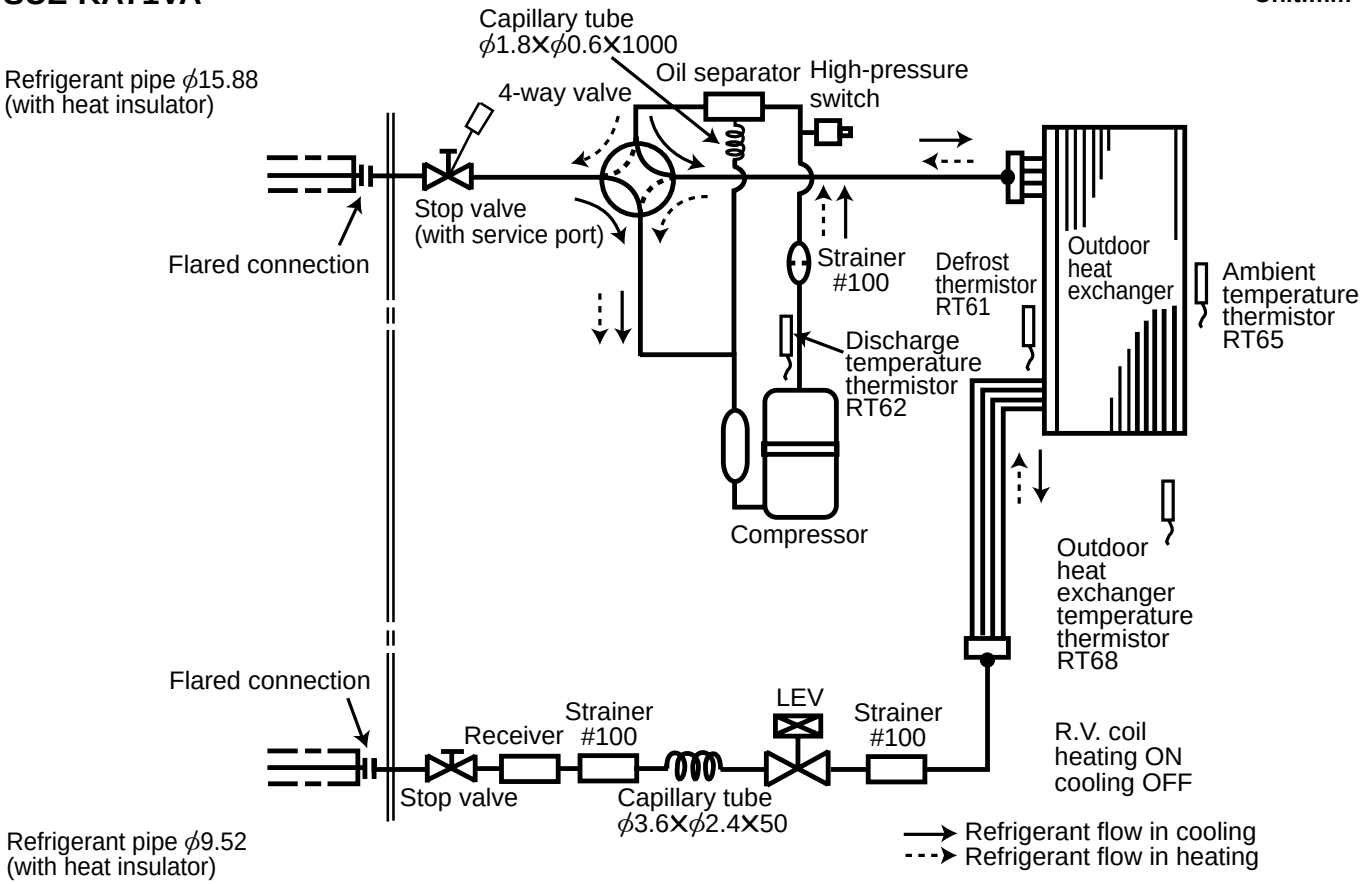
SUZ-KA50VA
SUZ-KA60VA

Unit:mm

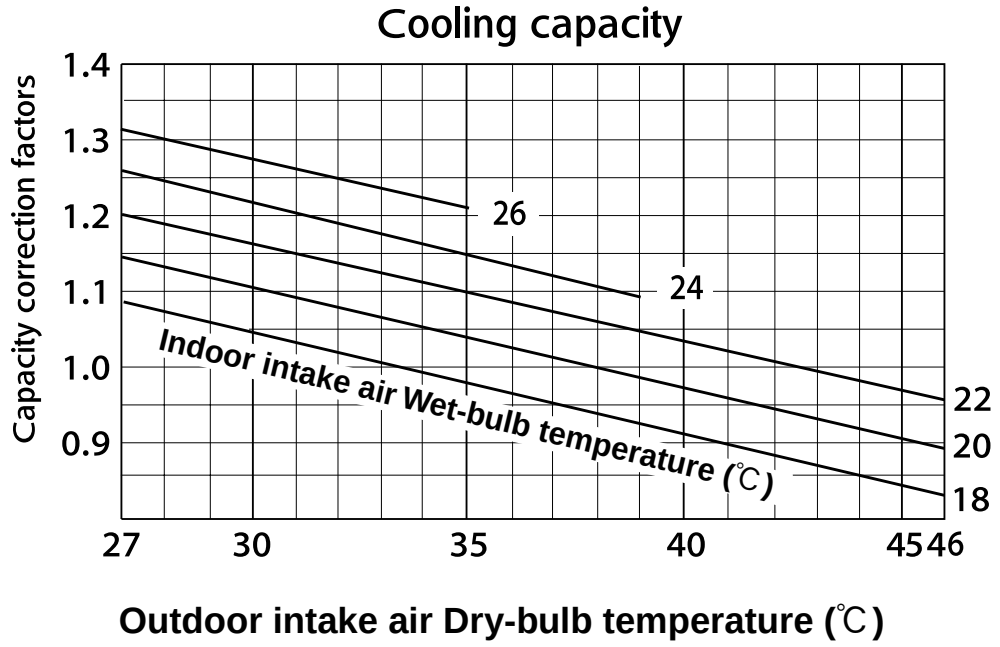


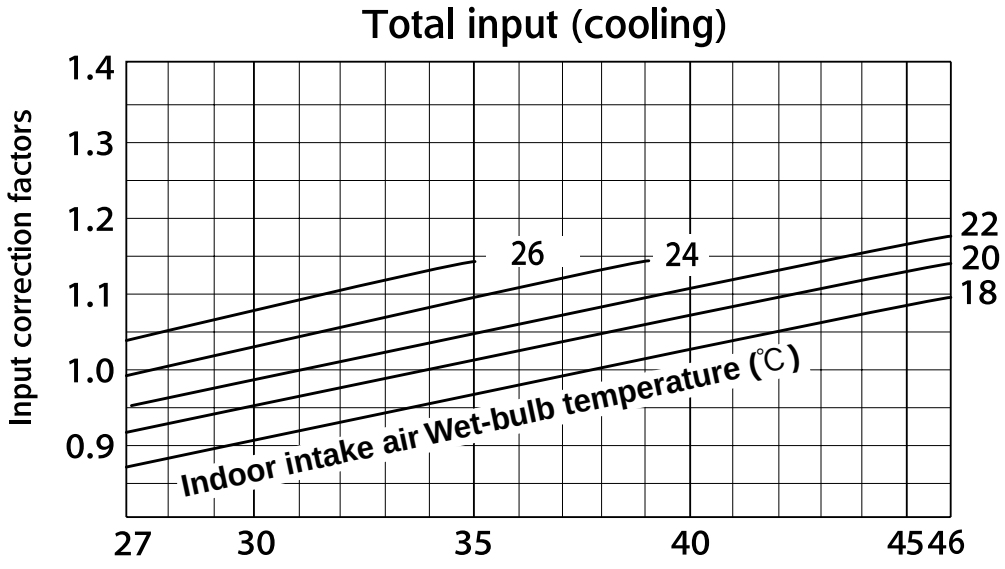
SUZ-KA71VA

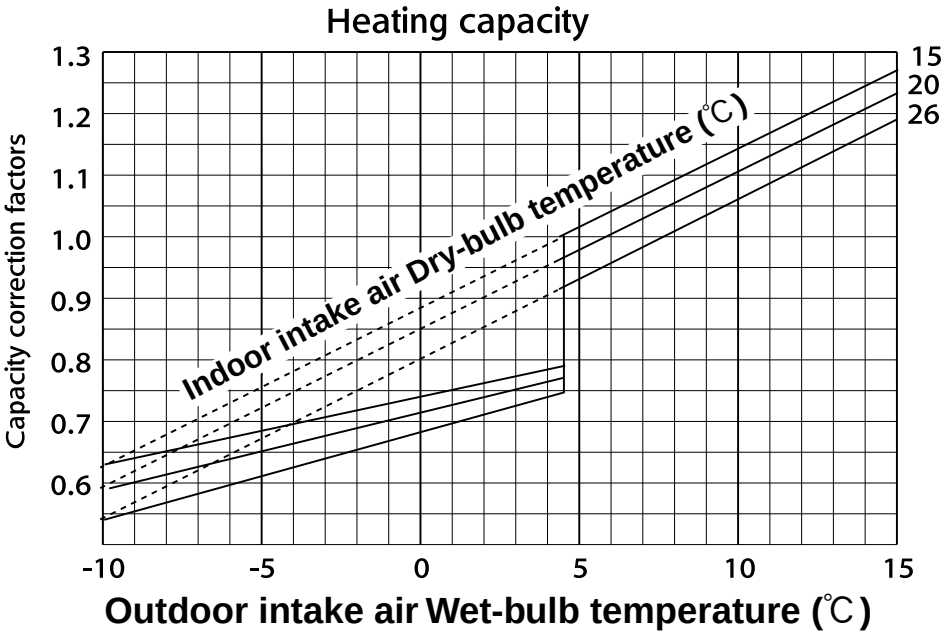
Unit:mm

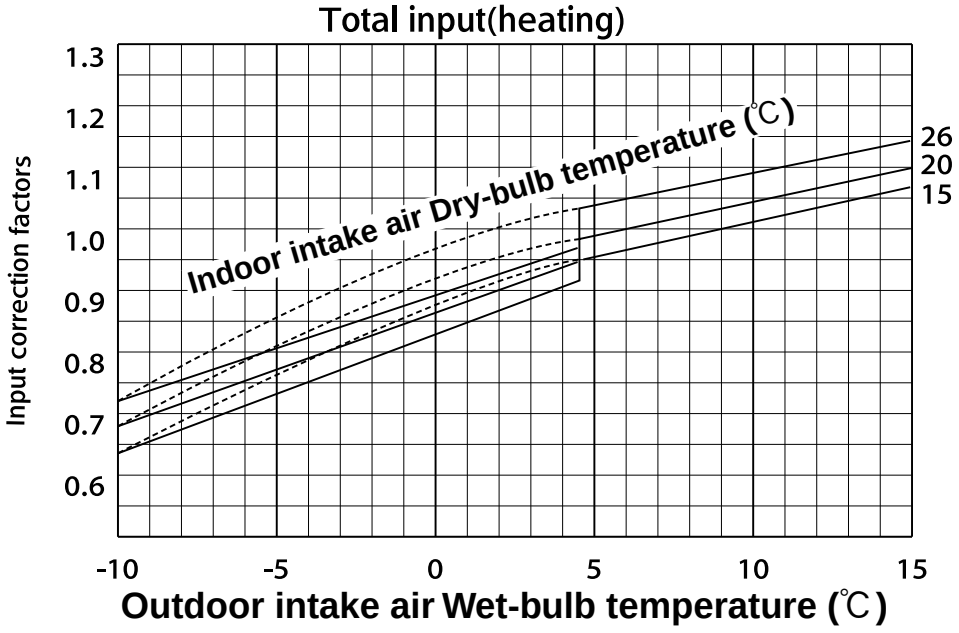


6 PERFORMANCE CURVES









NOTE:The above curves are for the heating operation without any frost.

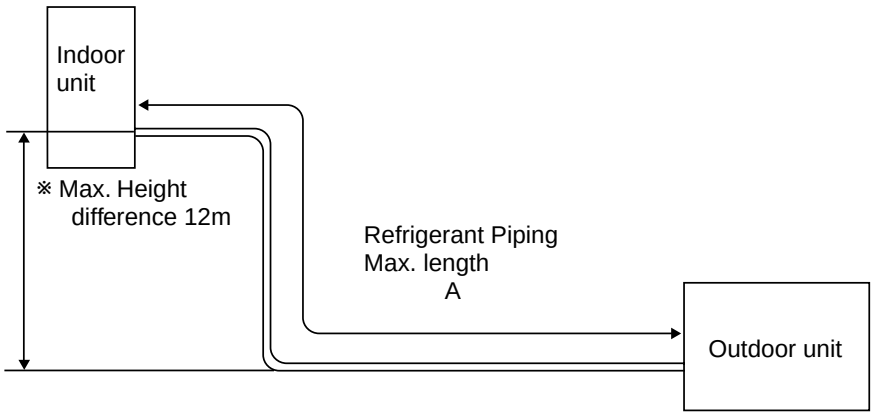
7 APPLICABLE EXTENSION PIPE FOR EACH MODEL

SUZ-KA25VA SUZ-KA25VAH
SUZ-KA35VA SUZ-KA35VAH

MAX. REFRIGERANT PIPING LENGTH

Models	Refrigerant piping Max. length : m A	Piping size O.D : mm	
		Gas	Liquid
SUZ-KA25VA SUZ-KA35VA SUZ-KA25VAH SUZ-KA35VAH	20	9.52	6.35

MAX. HEIGHT DIFFERENCE



※ Height difference should be within 12m regardless of which unit, indoor or outdoor position is high.

ADDITIONAL REFRIGERANT CHARGE (R410A:g)

Models	Outdoor unit precharged	Refrigerant piping length (one way)											
		5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	20m
SUZ-KA25VA SUZ-KA25VAH	900	0	0	0	90	120	150	180	210	240	270	300	450
SUZ-KA35VA SUZ-KA35VAH	1,050	0	0	0	90	120	150	180	210	240	270	300	450

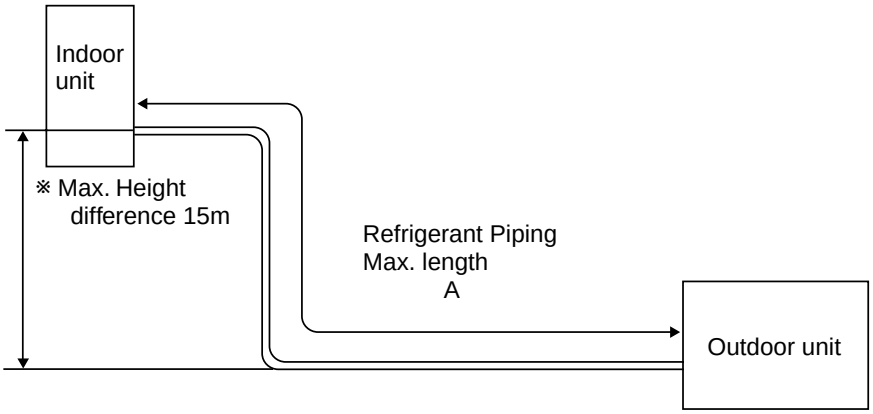
Calculation : Xg=30g/m×(Refrigerant piping length(m) - 5)

SUZ-KA50VA
SUZ-KA60VA
SUZ-KA71VA

MAX. REFRIGERANT PIPING LENGTH

Model	Refrigerant piping Max. length : m A	Piping size O.D : mm	
		Gas	Liquid
SUZ-KA50VA	30	12.7	6.35
SUZ-KA60VA		15.88	
SUZ-KA71VA			9.52

MAX. HEIGHT DIFFERENCE



※ Height difference should be within 15m regardless of which unit, indoor or outdoor position is high.

ADDITIONAL REFRIGERANT CHARGE(R410A : g)

Model	Outdoor unit precharged	Refrigerant piping length (one way)					
		7m	10m	15m	20m	25m	30m
SUZ-KA50VA	1,600	0	60	160	260	360	460
SUZ-KA60VA	1,800	0	60	160	260	360	460

Calculation : Xg=20g/m X (Refrigerant piping length (m)–7)

Model	Outdoor unit precharged	Refrigerant piping length (one way)					
		7m	10m	15m	20m	25m	30m
SUZ-KA71VA	2,000	0	165	440	715	990	1,265

Calculation : Xg=55g/m×(Refrigerant piping length(m)-7)

8 AIR FLOW DATA

8-1. OUTLET AIR SPEED AND COVERAGE RANGE

		MFZ-KA25VA	MFZ-KA35VA	MFZ-KA50VA
Air flow	m^3/min.	8.7	9.1	10.7
Air speed	m/sec.	1.8	1.9	2.2
Coverage range	m	5.1	5.3	6.2

		SLZ-KA25VA SLZ-KA25VAL	SLZ-KA35VA SLZ-KA35VAL	SLZ-KA50VA SLZ-KA50VAL
Air flow	m^3/min.	10	11	11
Air speed	m/sec.	3.4	3.7	3.7
Coverage range	m	3.7	4.1	4.1

		PLA-RP35AA	PLA-RP50AA	PLA-RP60AA	PLA-RP71AA
Air flow	m^3/min.	14	18	18	20
Air speed	m/sec.	2.8	3.6	3.6	4.0
Coverage range	m	4.0	5.2	5.2	5.7

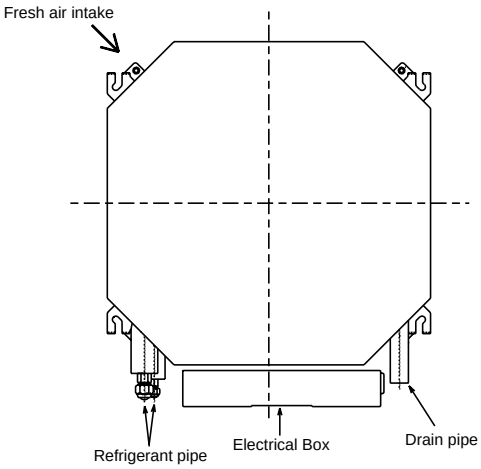
		PCA-RP50GA	PCA-RP60GA	PCA-RP71GA
Air flow	m^3/min	13	18	18
Air speed	m/sec	3.7	3.8	3.8
Coverage range	m	8.8	10.4	10.4

The air coverage range is the value up to the position where the air speed is 0.25m/sec. when air is blown out horizontally from the unit at the Hi 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.

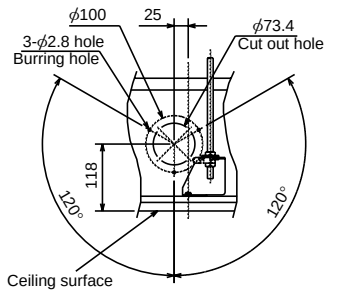
8-2. SLZ-KA•VA SLZ-KA•VAL

8-2-1. Fresh air intake (Location for installation)

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

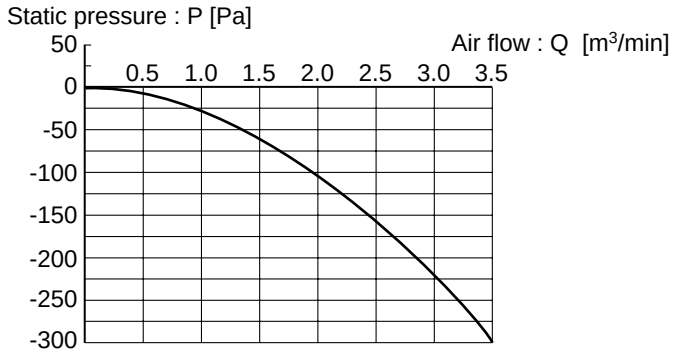


Detail drawing of fresh air intake



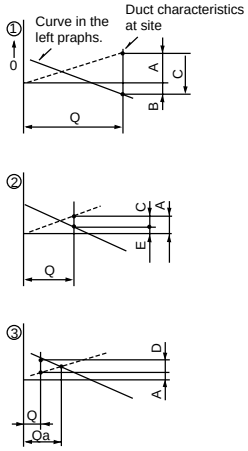
8-2-2. Fresh air intake amount & static pressure characteristics

Taking air into the unit



NOTE: Fresh air intake amount should be 20% or less of whole air amount to prevent dew dripping.

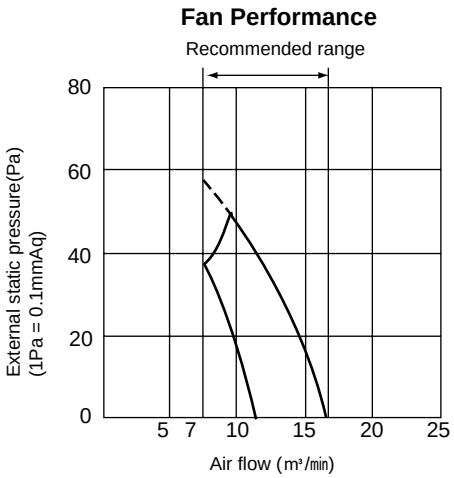
How to read curves

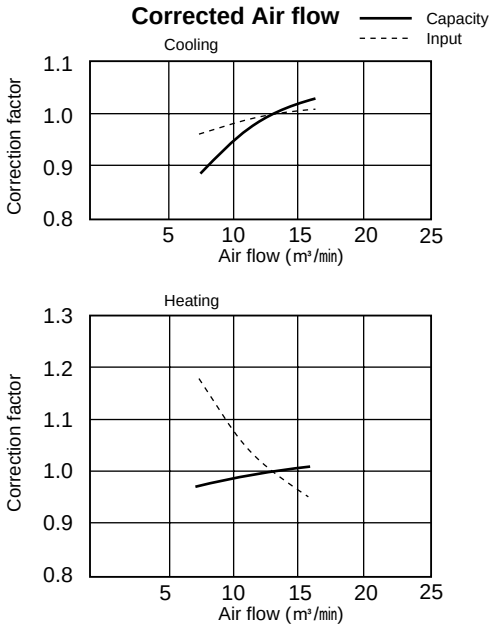


Q…Planned amount of fresh air intake <m³/min>
A…Static pressure loss of fresh air intake duct system with air flow amount Q <Pa>
B…Forced static pressure at air conditioner inlet with air flow amount Q <Pa>
C…Static pressure of booster fan with air flow amount Q <Pa>
D…Static pressure loss increase amount of fresh air intake dust system for air flow amount Q <Pa>
E…Static pressure of indoor unit with air flow amount Q <Pa>
Qa…Estimated amount of fresh air intake with out D <m³/min>

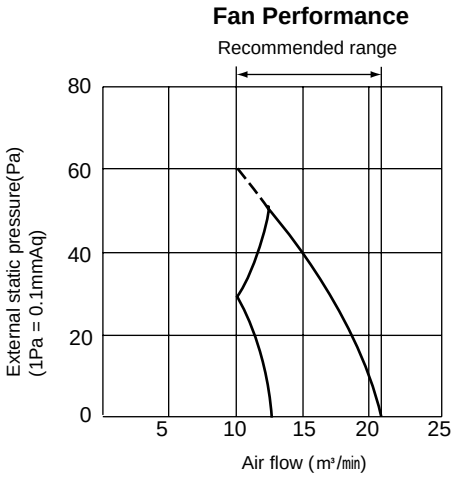
8-3. SEZ-KA•VA
INDOOR FAN PERFORMANCE AND CORRECTED AIR FLOW

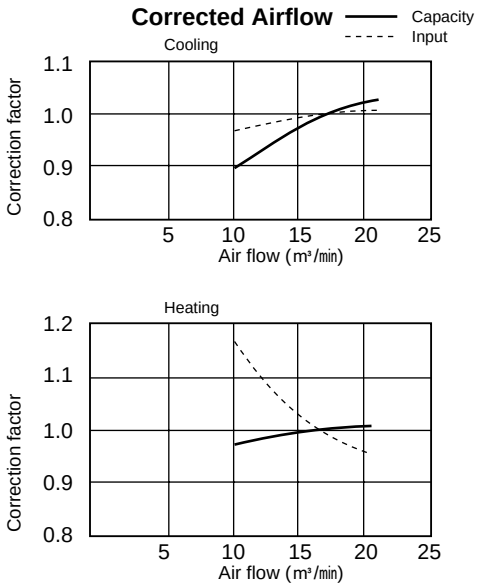
SEZ-KA35VA





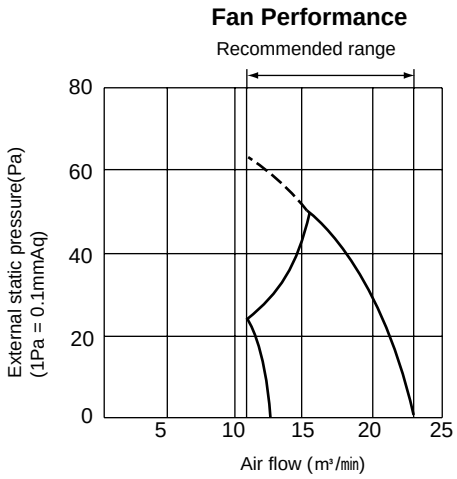
SEZ-KA50VA

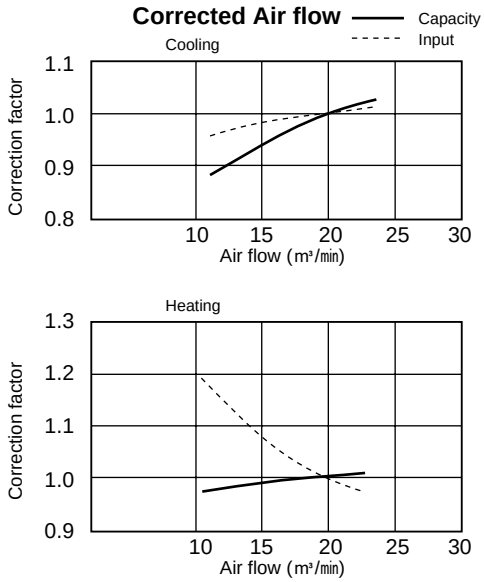




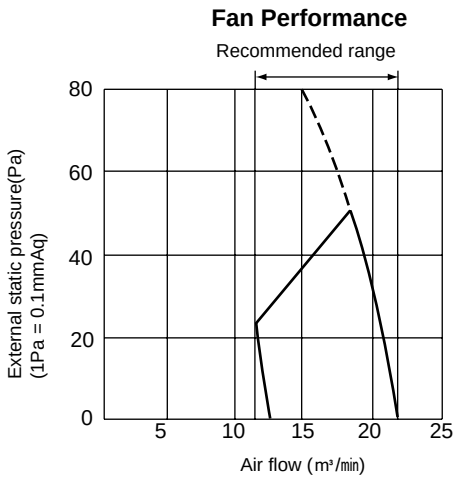
INDOOR FAN PERFORMANCE AND CORRECTED AIR FLOW

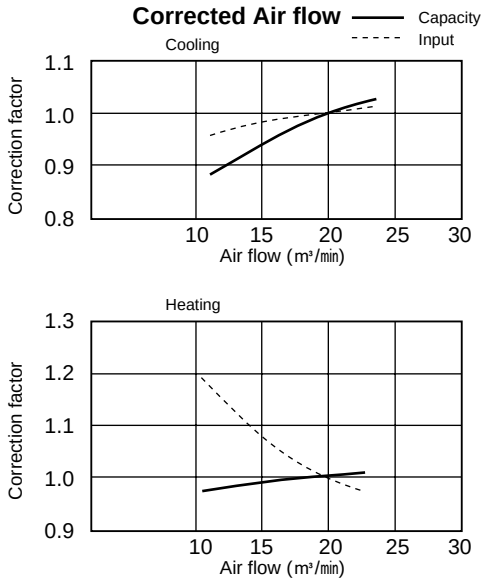
SEZ-KA60VA





SEZ-KA71VA





8-4. PLA-RP·AA

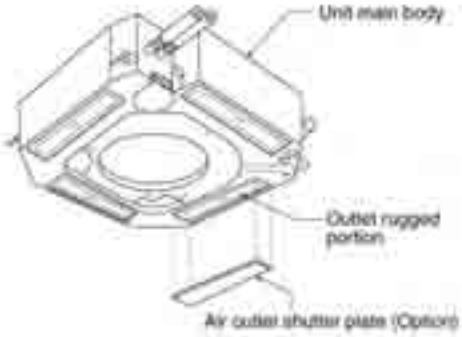
8-4-1. Fresh air intake amount

1. Adjusting the width of the air outlets

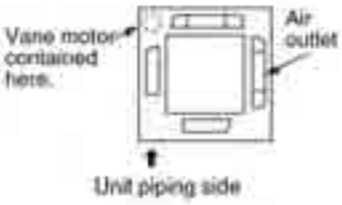
- **Change of outlet numbers**
  [The optional air outlet shutter is necessary.]

  To change the air outlet numbers to 3-, or 2-way outlet, the outlets should be closed with the optional air outlet shutter.)

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

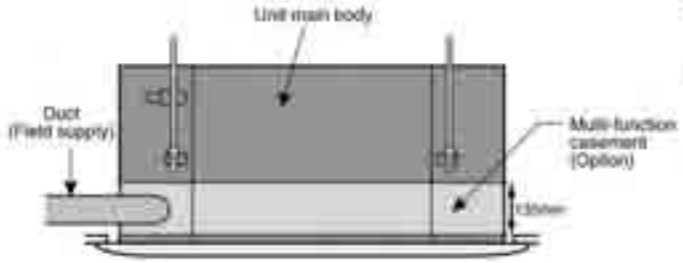


- **For the portion to be cut (V-shaped groove), see the figure below (as seen from the rear of the panel).**



2. Fresh air intake (Installation of site)

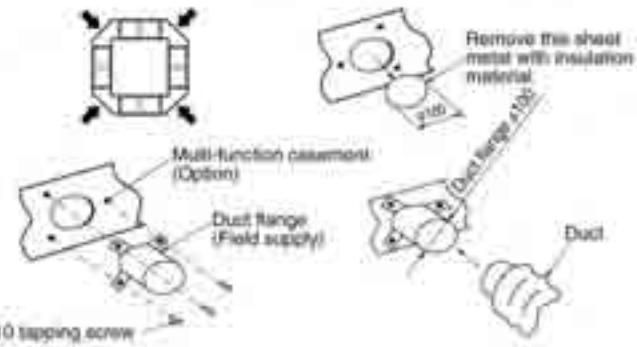
- By mounting the optional multi-function casement to the indoor unit main body, and mounting the duct and duct flange (field supply) onto it further, fresh exterior air intake can be accomplished.
  (The mounting of the multi-function casement increases the height of the ceiling plenum by 135mm.)



Direct exterior air intake into the main body is also possible.

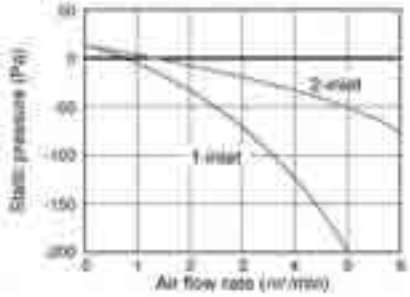
Knockout hole for fresh air intake

Preparation of knockout hole

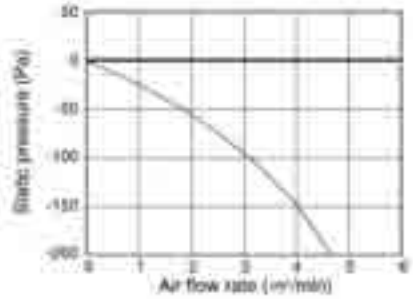


3. Fresh air intake volume & static pressure characteristics

① PLA-RP71AA
(at using of multi-function casement, standard filter)

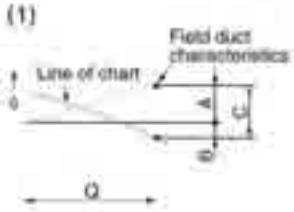


② PLA-RP71AA (Direct intake to unit)



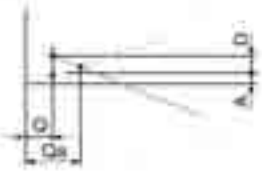
How to read the chart

(1)



(2)

(3)



Q ..... Design fresh air intake volume (m³/min)

A ..... Static pressure loss [Pa] of fesh air intake duct at air flow rate of Q

B ..... Required boost pressure [Pa] of air conditioner inlet at air flow rate of Q

C ..... Required static pressure [Pa] of booster fan at air flow rate of Q

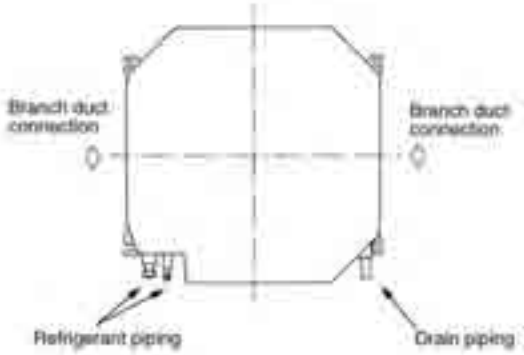
D ..... Required compensation [Pa] for static pressure loss of fresh air intake duct to make air flow rate Q

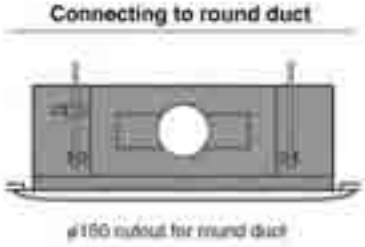
E ..... Static pressure [Pa] of indoor unit at air flow rate of Q

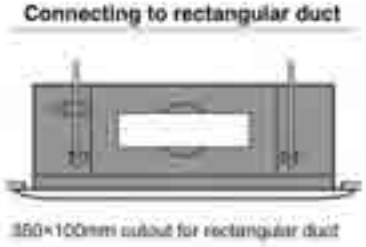
Qa .. Estimated fresh air intake [m³/min] without compensation of D

8-4-2. BRANCH DUCT (Installation at site)

To be compatible with both round and rectangular branch ducts, knockout holes are designed to fit to both shapes for flexible on-site installation.



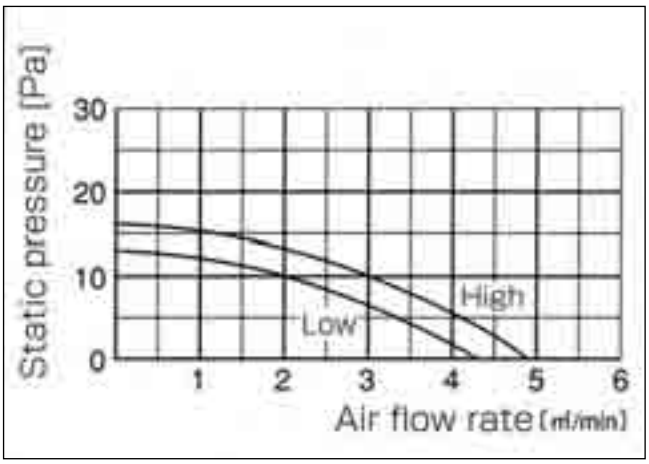




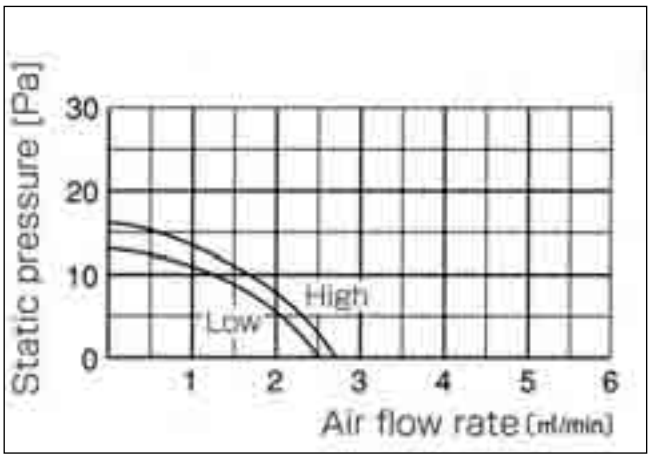
Branch duct air flow rate/static pressure characteristics

PLA-RP35AA

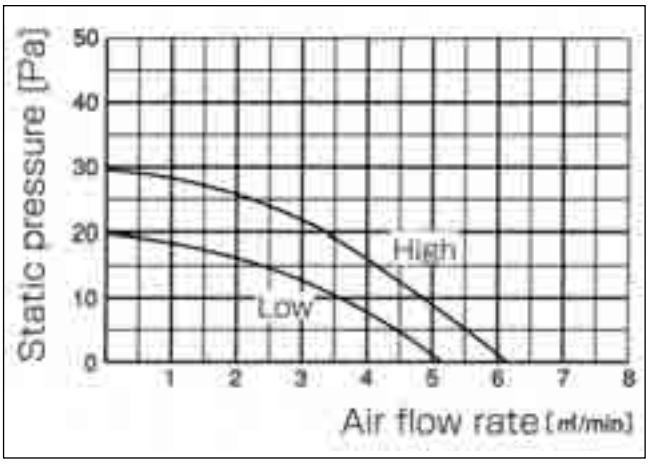
4-way air flow (horizontal vane) Rectangular duct



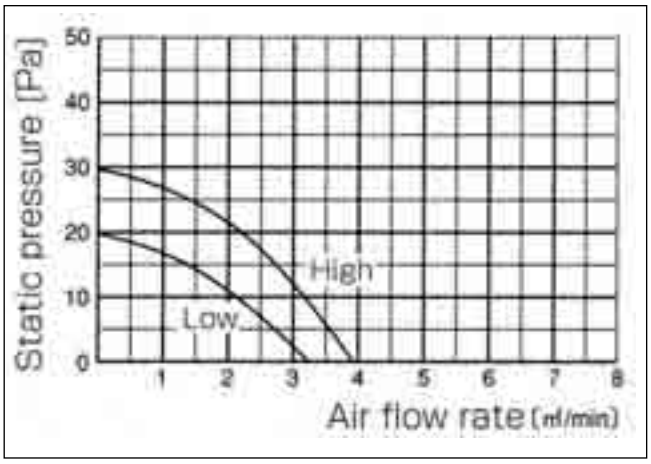
4-way air flow (horizontal vane) Round duct



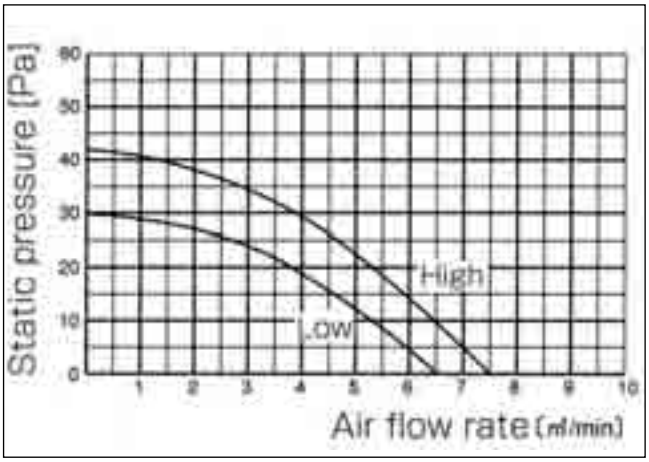
3-way air flow (horizontal vane) Rectangular duct



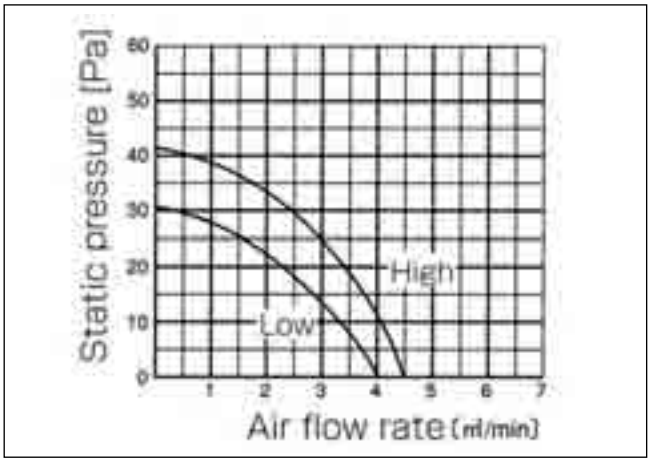
3-way air flow (horizontal vane) Round duct



2-way air flow (horizontal vane) Rectangular duct

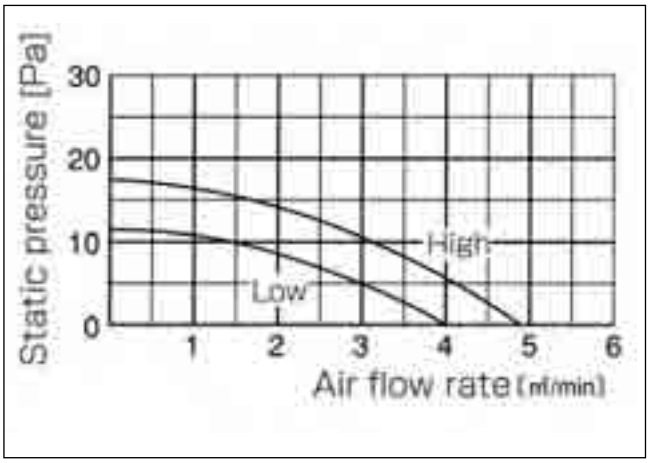


2-way air flow (horizontal vane) Round duct

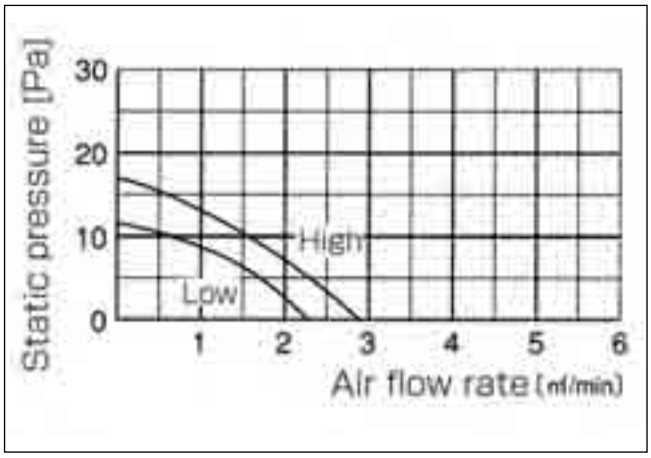


PLA-RP50AA
PLA-RP60AA

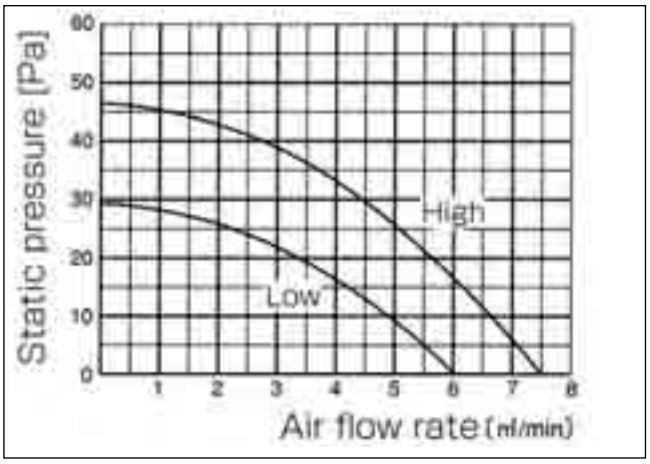
4-way air flow (horizontal vane) Rectangular duct



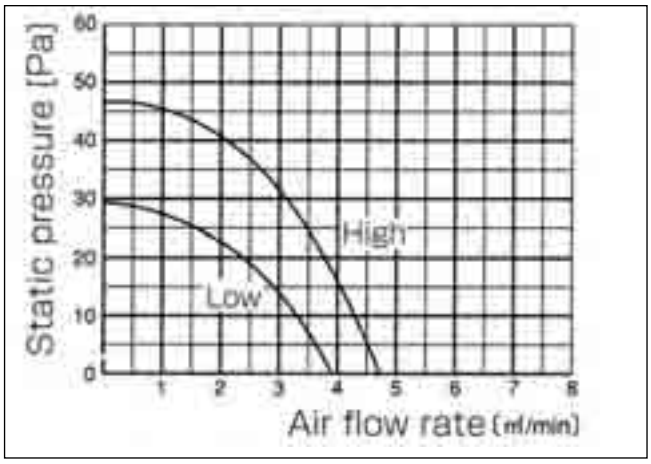
4-way air flow (horizontal vane) Round duct



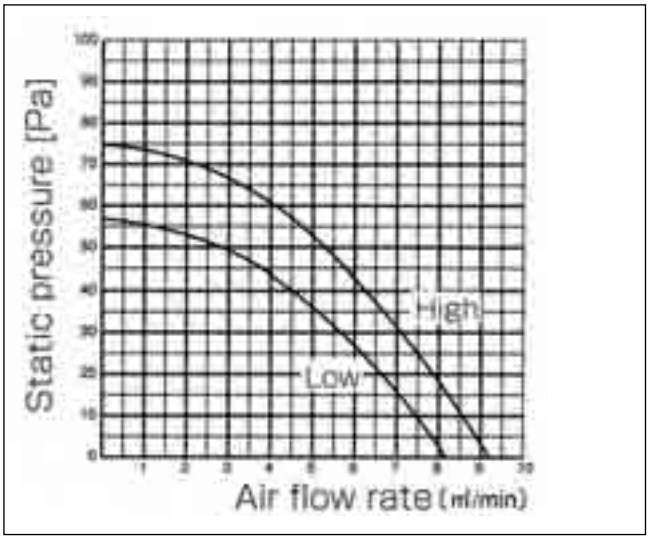
3-way air flow (horizontal vane) Rectangular duct



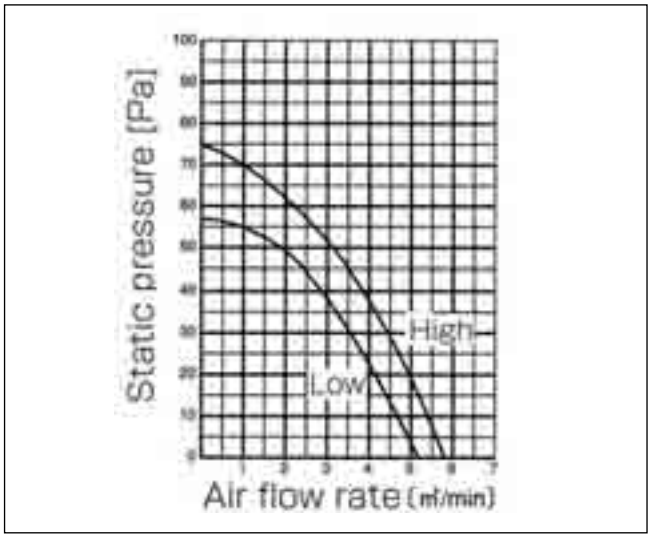
3-way air flow (horizontal vane) Round duct



2-way air flow (horizontal vane) Rectangular duct

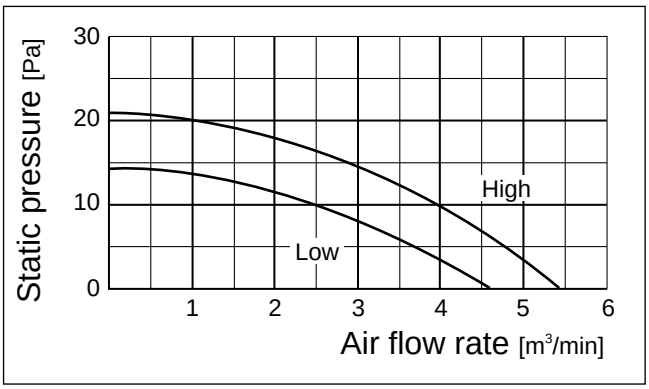


2-way air flow (horizontal vane) Round duct

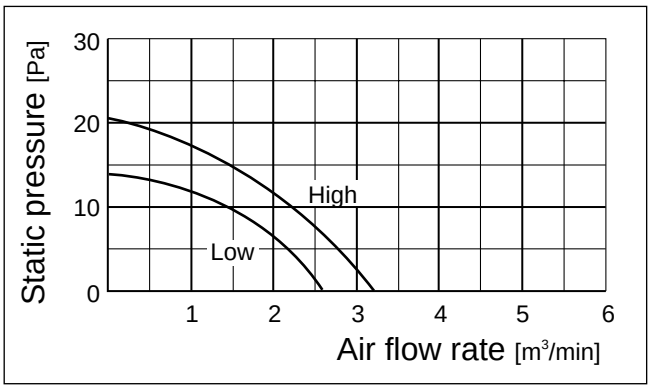


PLA-RP71AA

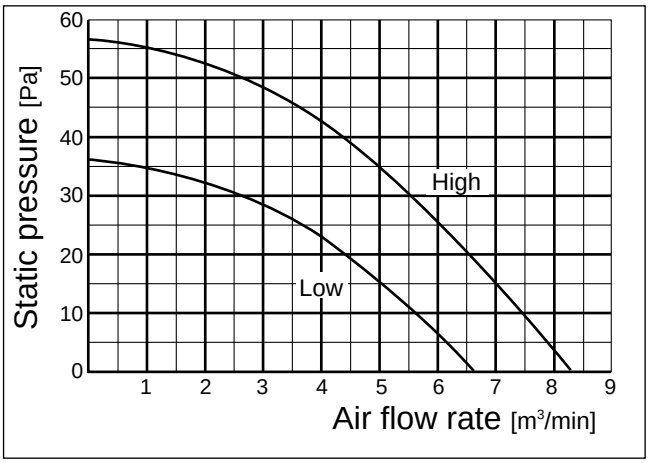
4-way air flow (horizontal vane) Rectangular duct



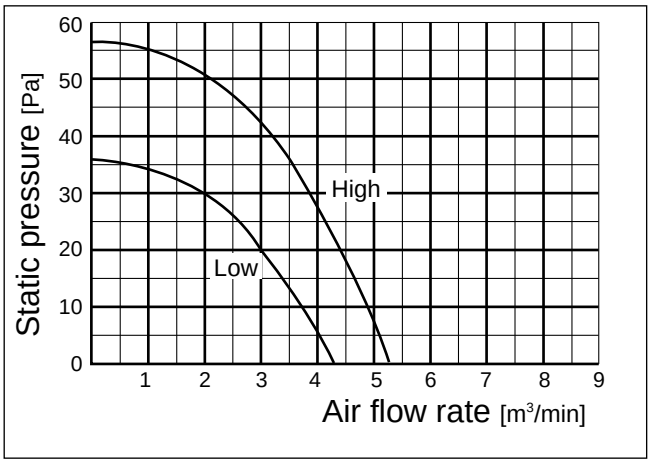
4-way air flow (horizontal vane) Round duct



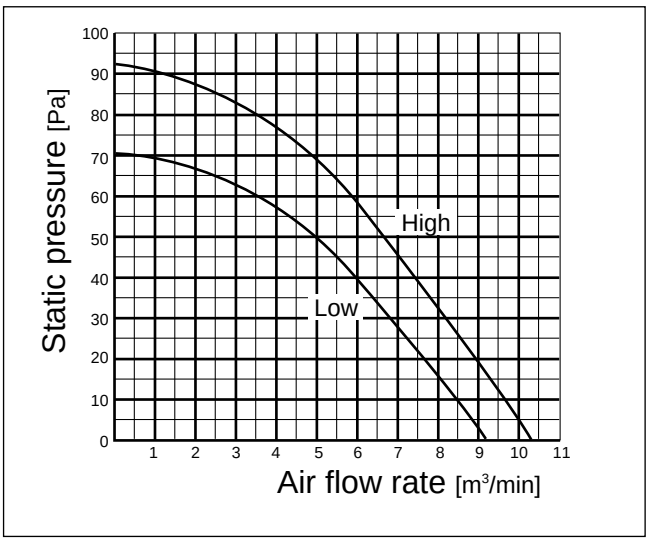
3-way air flow (horizontal vane) Rectangular duct



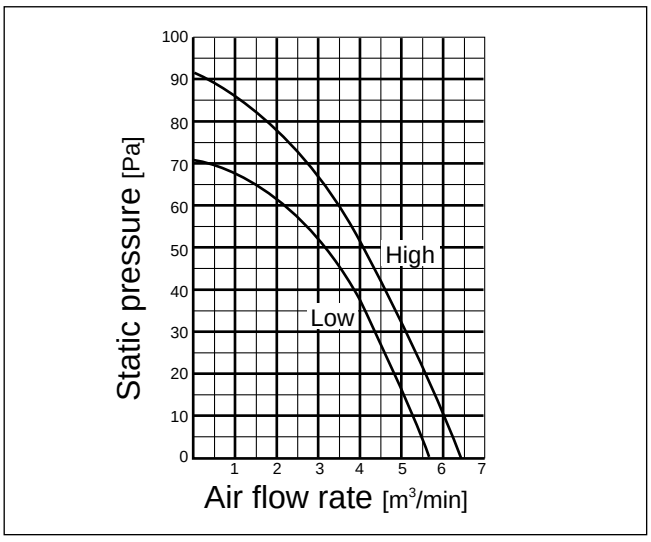
3-way air flow (horizontal vane) Round duct



2-way air flow (horizontal vane) Rectangular duct



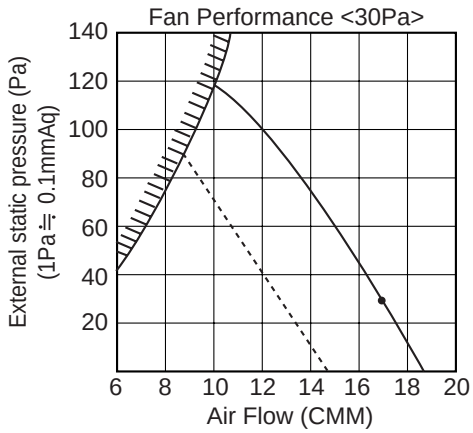
2-way air flow (horizontal vane) Round duct

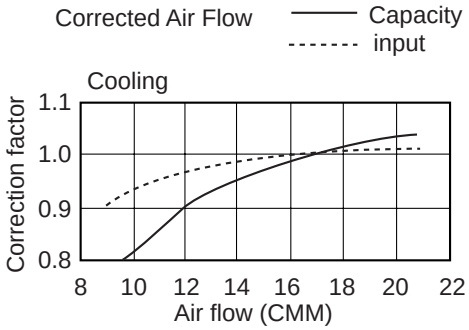


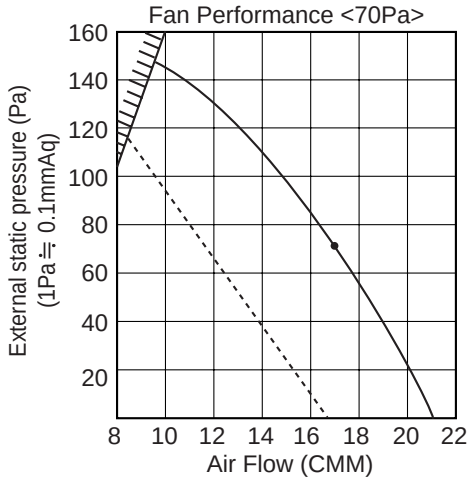
8-5. PEAD-RP·EA, EA2, GA

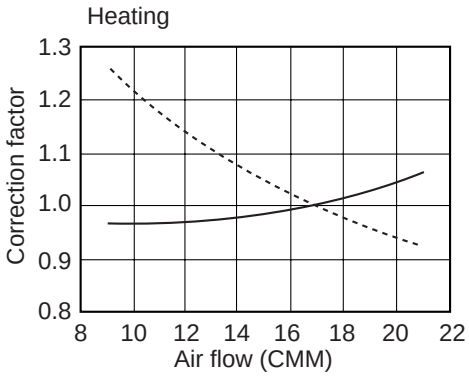
8-5-1. Fan performance and corrected air flow

PEAD-RP35EA2 PEAD-RP50EA

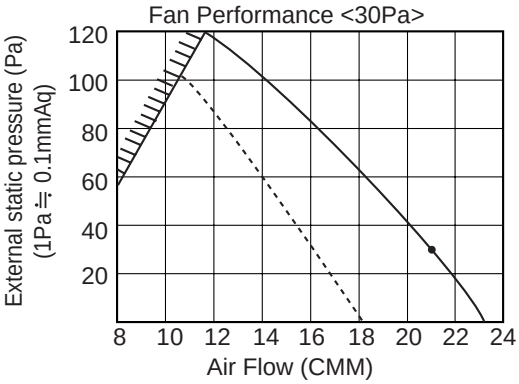


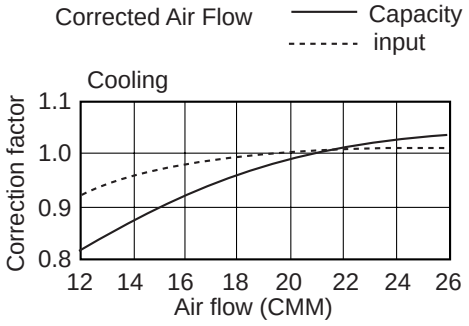


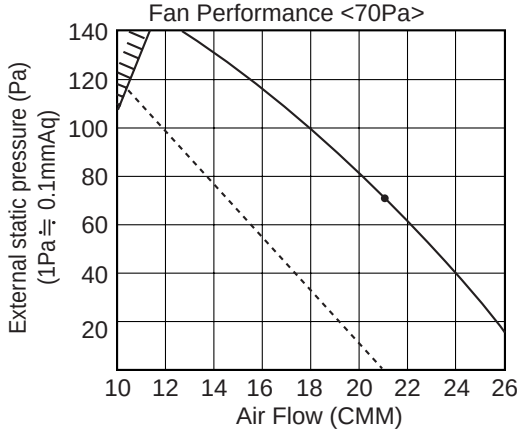


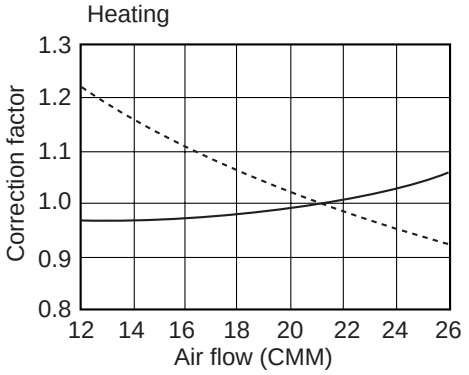


PEAD-RP60EA



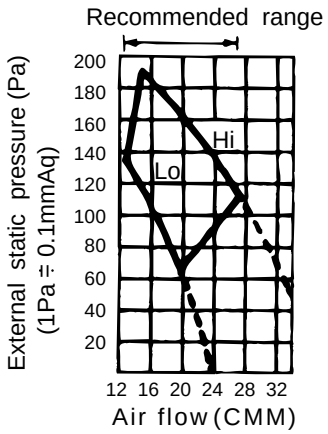




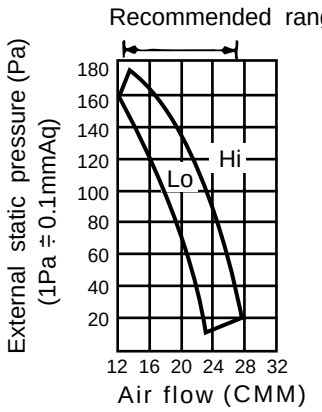


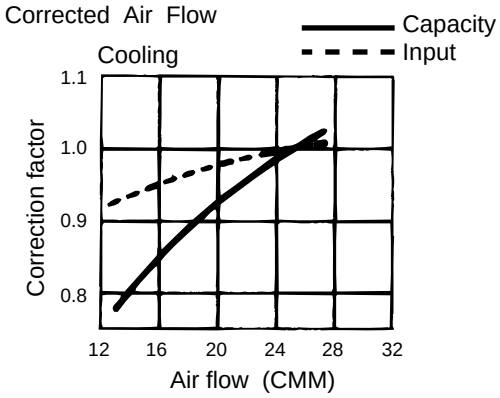
PEAD-RP71EA

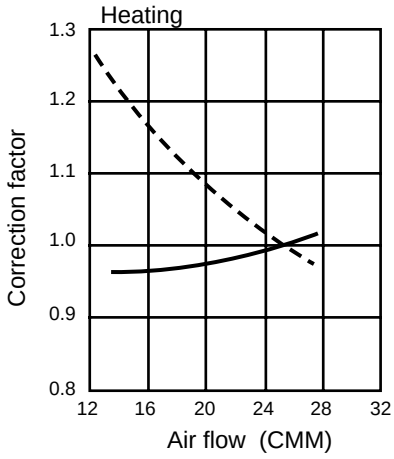
Fan performance <130Pa>



Fan performance <70Pa>

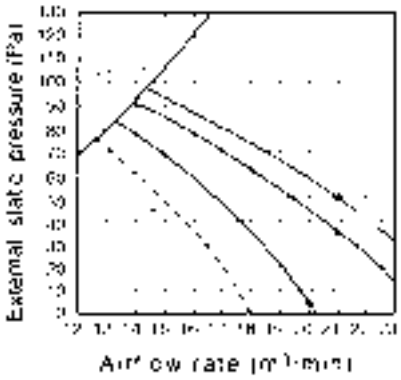




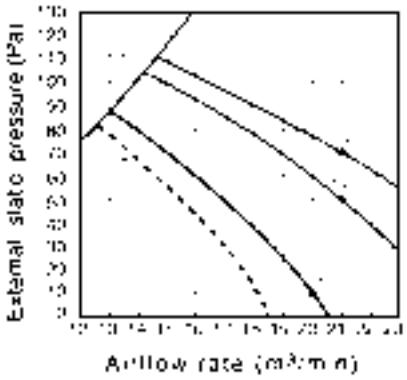


PEAD-RP60GA

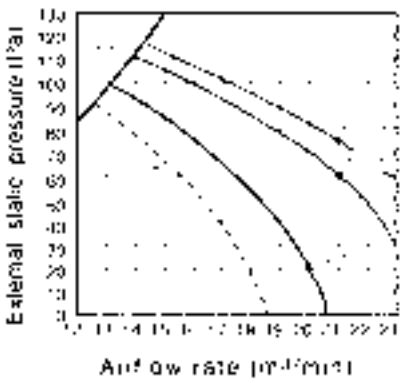
Fan performance <220V>



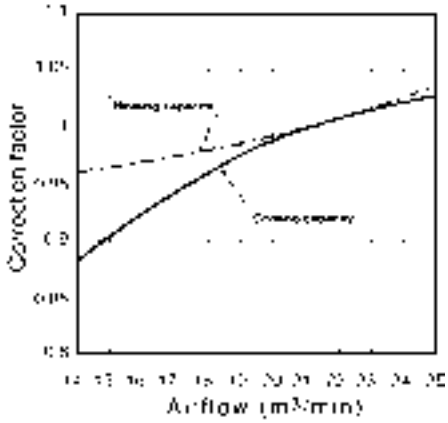
Fan performance <230V>



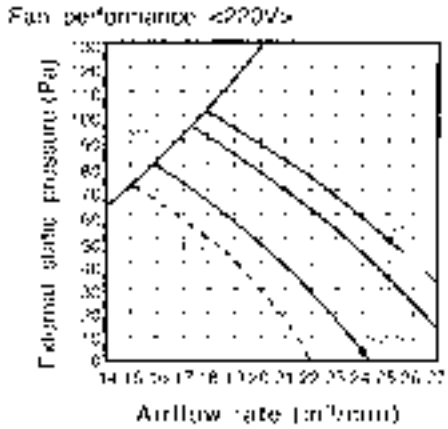
Fan performance <240V>

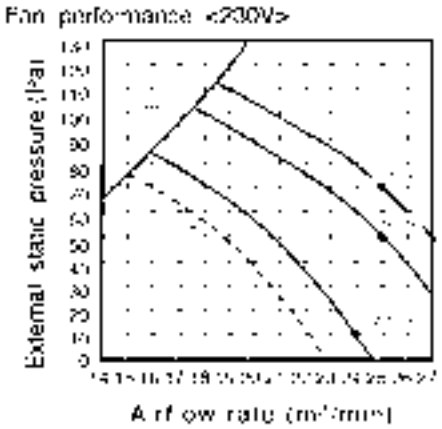


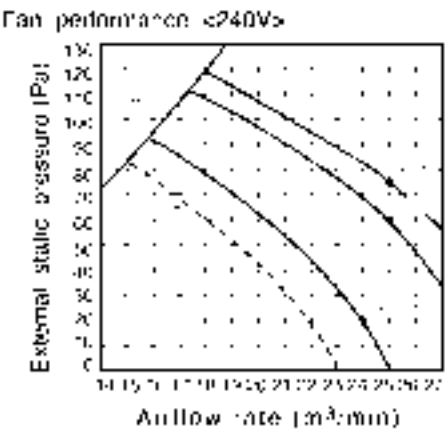
Corrected air flow

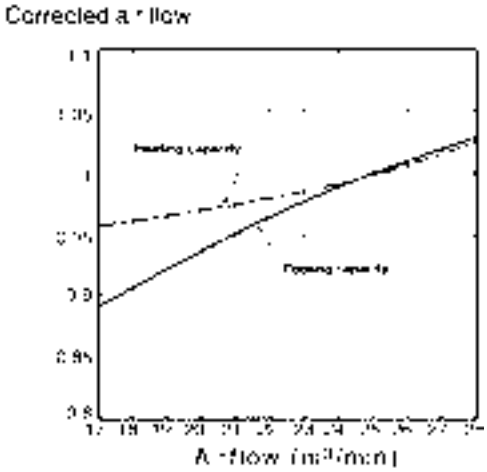


PEAD-RP71GA





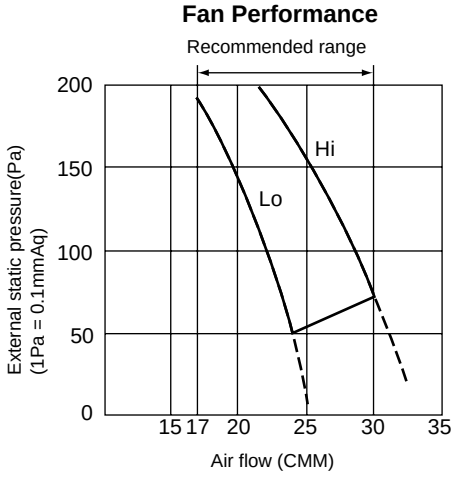


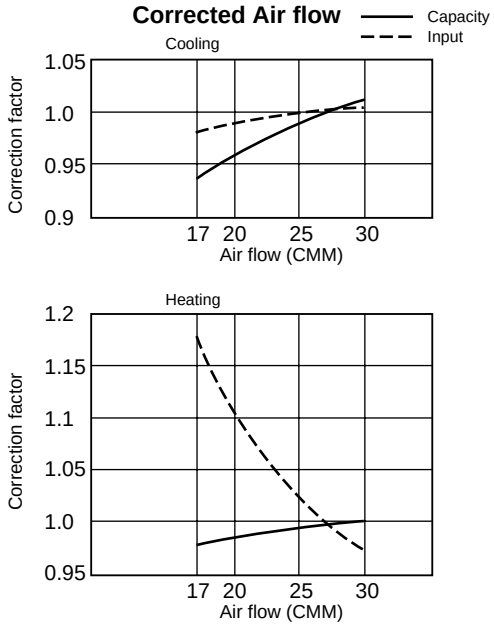


8-6. PEA-RP·EA

8-6-1. Fan performance and corrected air flow

PEA-RP71EA



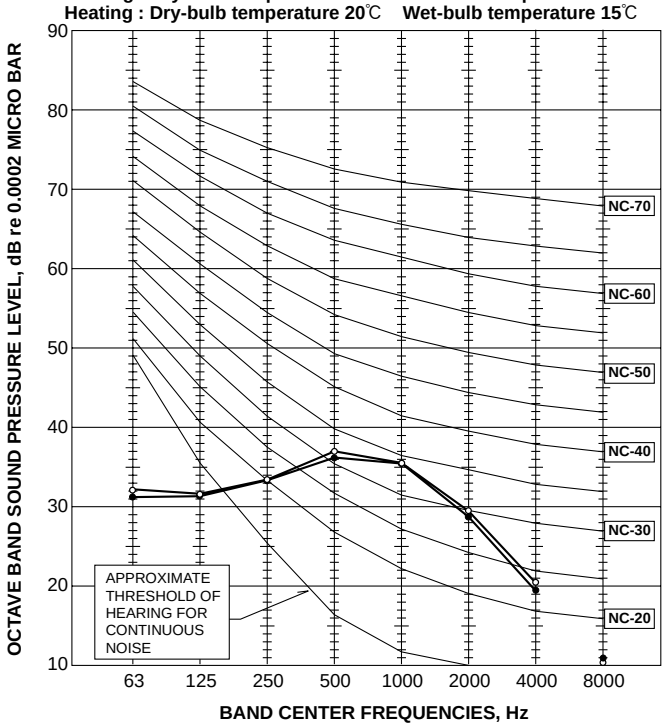


9 NOISE CRITERION CURVES

MFZ-KA25VA

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	37	●——●
	HEATING	37	○——○

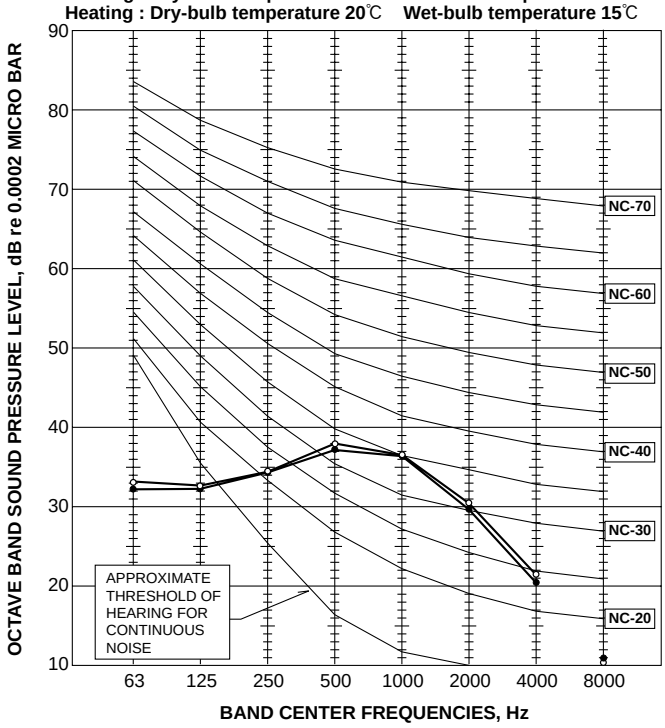
Test conditions,
Cooling : Dry-bulb temperature 27℃ Wet-bulb temperature 19℃
Heating : Dry-bulb temperature 20℃ Wet-bulb temperature 15℃



MFZ-KA35VA

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	38	●——●
	HEATING	38	○——○

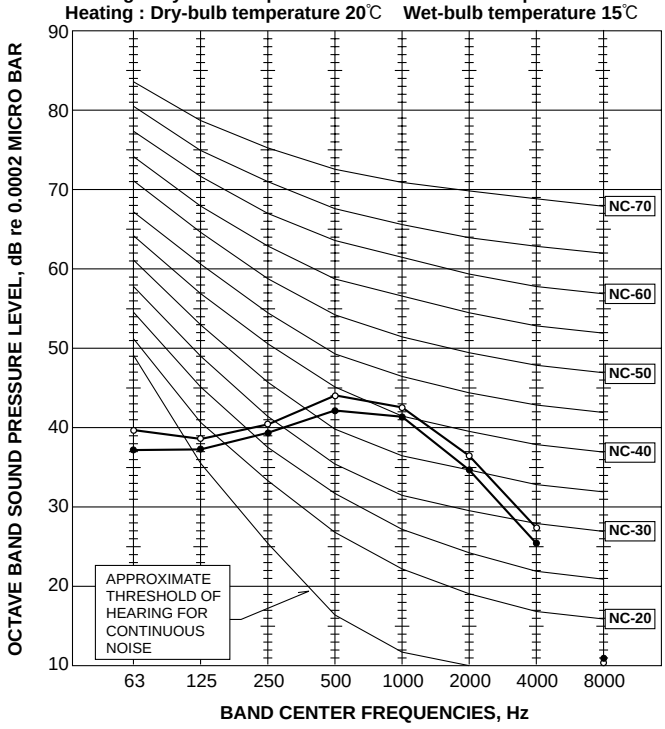
Test conditions,
Cooling : Dry-bulb temperature 27℃ Wet-bulb temperature 19℃
Heating : Dry-bulb temperature 20℃ Wet-bulb temperature 15℃

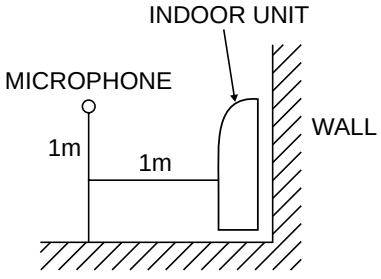


MFZ-KA50VA

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
Super High	COOLING	43	●——●
	HEATING	44	○——○

Test conditions,
Cooling : Dry-bulb temperature 27℃ Wet-bulb temperature 19℃
Heating : Dry-bulb temperature 20℃ Wet-bulb temperature 15℃

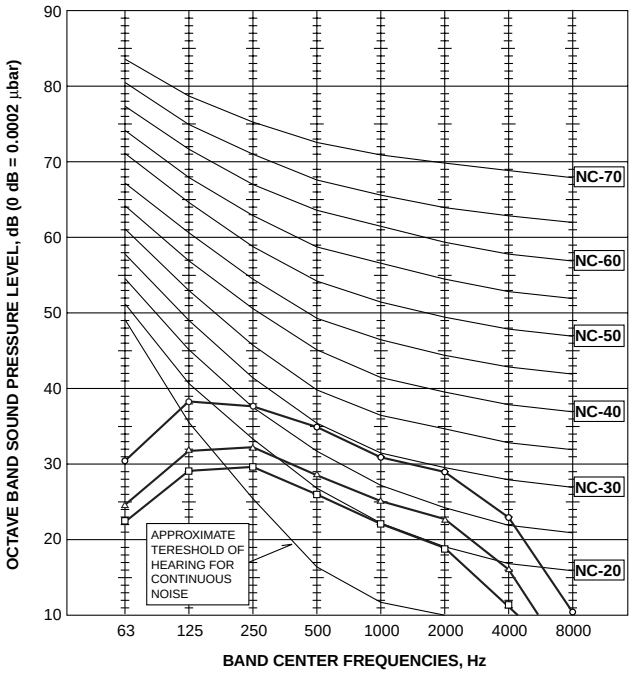




SLZ-KA25VAL
SLZ-KA25VA

<50Hz>

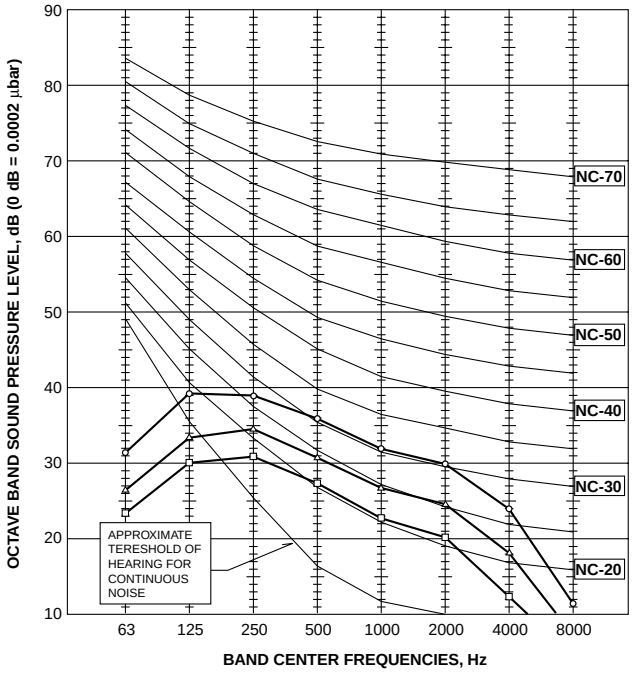
NOTCH	SPL(dB)	LINE
High	37	○—○
Medium	31	△—△
Low	28	□—□



SLZ-KA35VAL
SLZ-KA35VA

<50Hz>

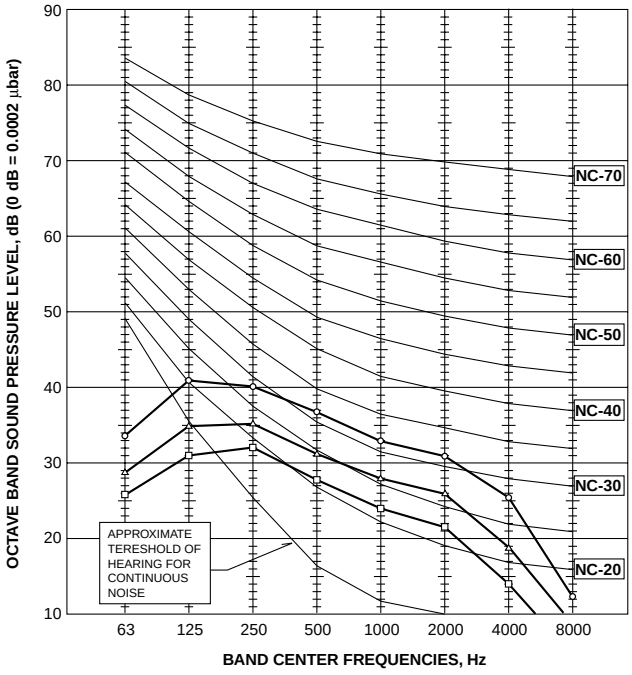
NOTCH	SPL(dB)	LINE
High	38	○—○
Medium	33	△—△
Low	29	□—□

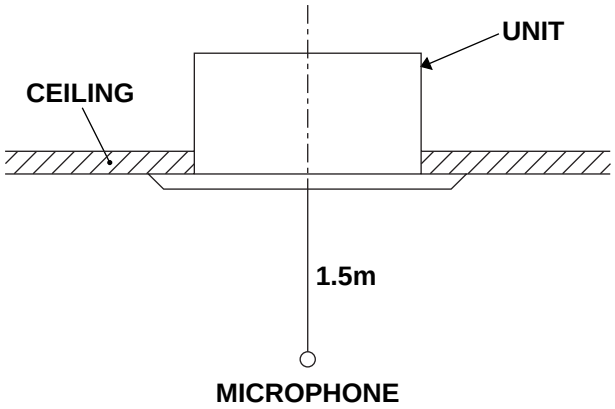


SLZ-KA50VAL
SLZ-KA50VA

<50Hz>

NOTCH	SPL(dB)	LINE
High	39	○—○
Medium	34	△—△
Low	30	□—□



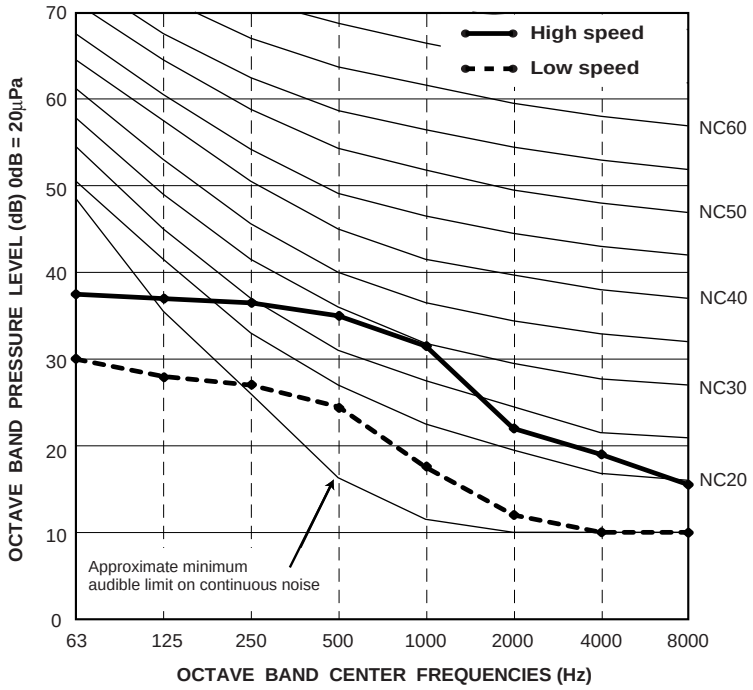


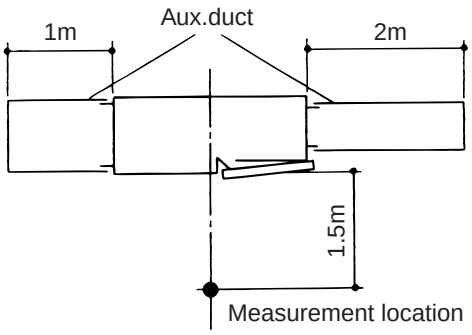
NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.

SEZ-KC25VA

<50Hz>

NOTCH	SPL(dB)
High	36
Low	25



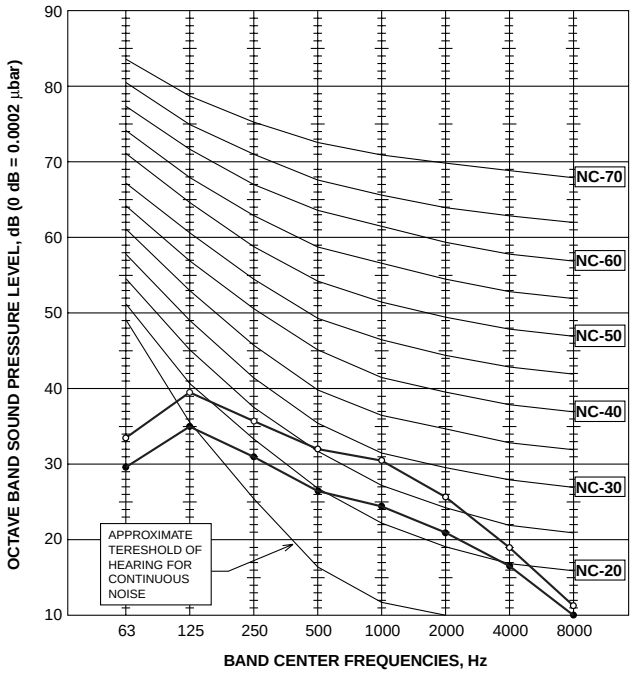


NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.

SEZ-KA35VA

<50Hz>

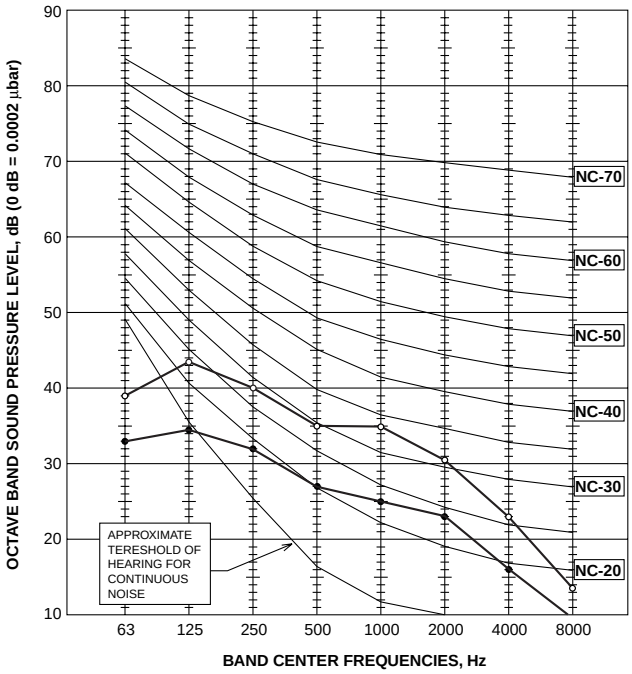
NOTCH	SPL(dB)	LINE
High	35	○—○
Low	30	●—●



SEZ-KA50VA

<50Hz>

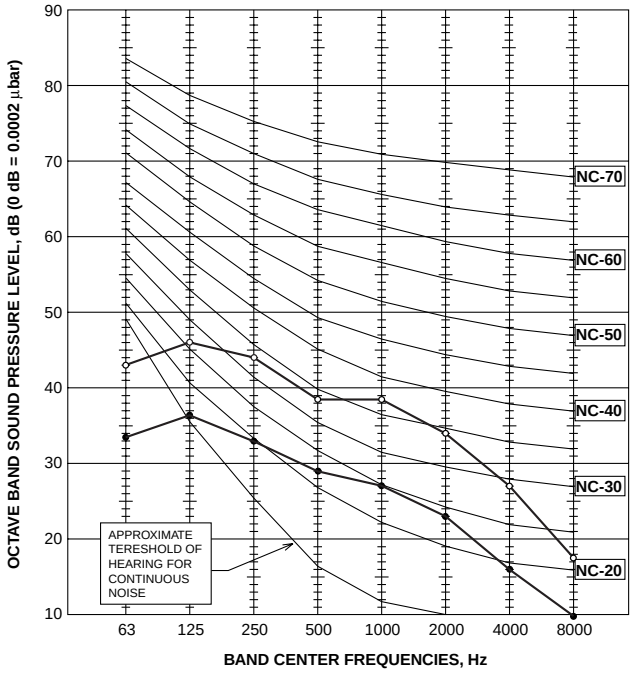
NOTCH	SPL(dB)	LINE
High	39	○—○
Low	31	●—●

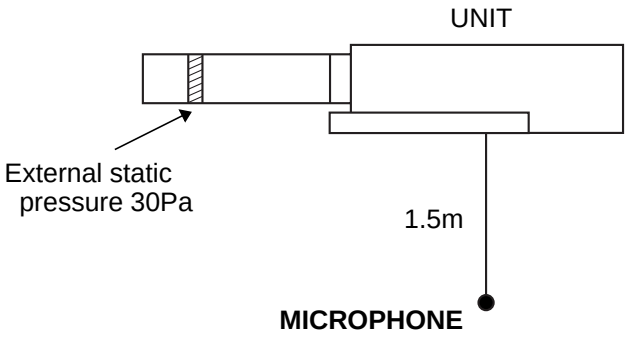


SEZ-KA60VA
SEZ-KA71VA

<50Hz>

NOTCH	SPL(dB)	LINE
High	43	○—○
Low	32	●—●

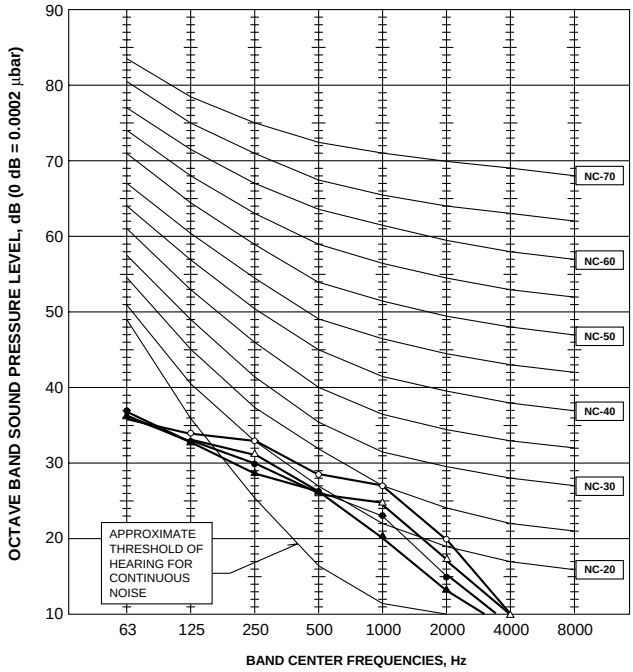




NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.

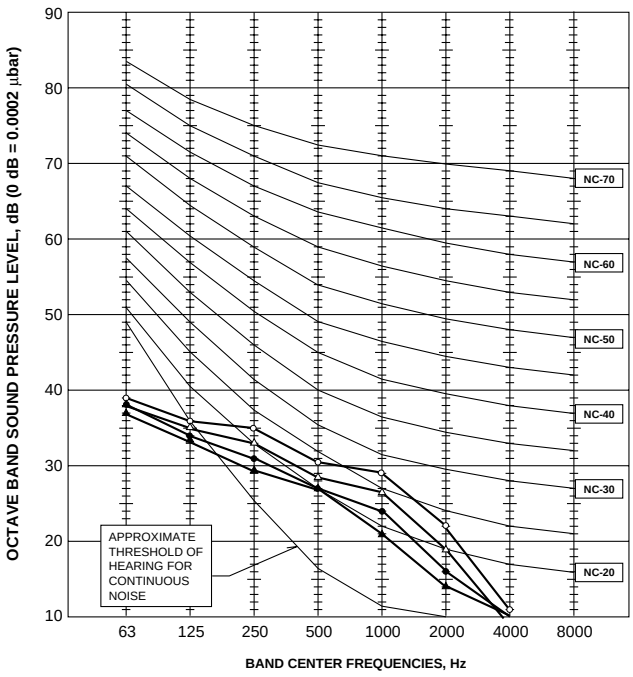
PLA-RP35AA

NOTCH	SPL(dB)	LINE
High	31	
Medium1	29	
Medium2	28	
Low	27	



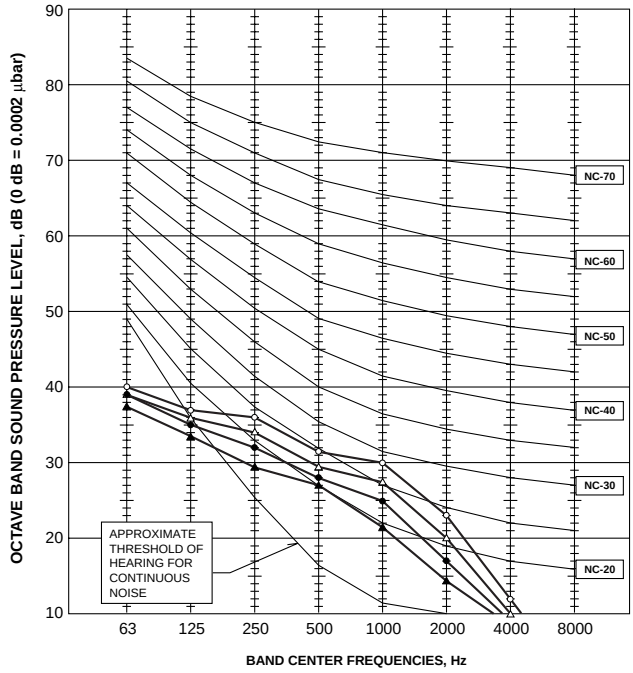
PLA-RP50AA
PLA-RP60AA

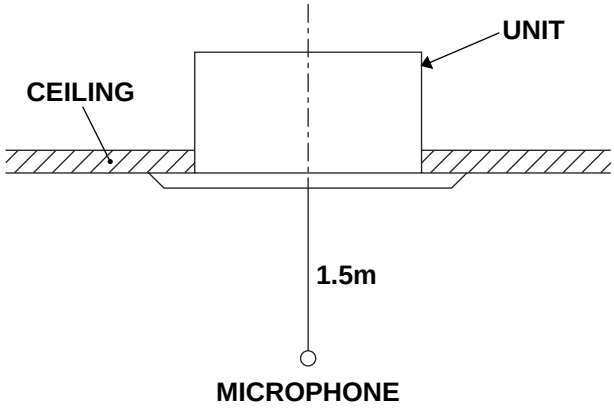
NOTCH	SPL(dB)	LINE
High	33	
Medium1	31	
Medium2	29	
Low	28	



PLA-RP71AA

NOTCH	SPL(dB)	LINE
High	34	
Medium1	32	
Medium2	30	
Low	28	



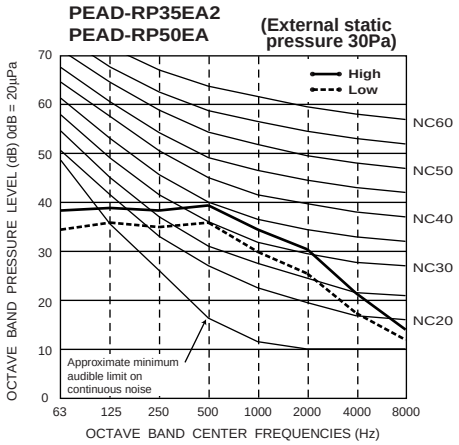


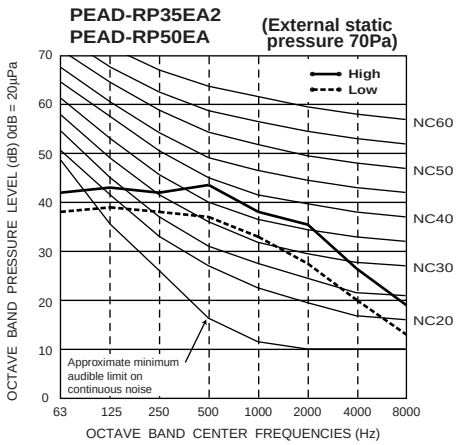
Ceiling concealed

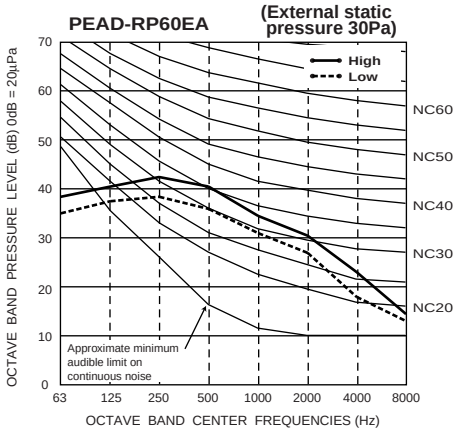
Noise level at an echoic room (Low-High) Unit : dB(A)

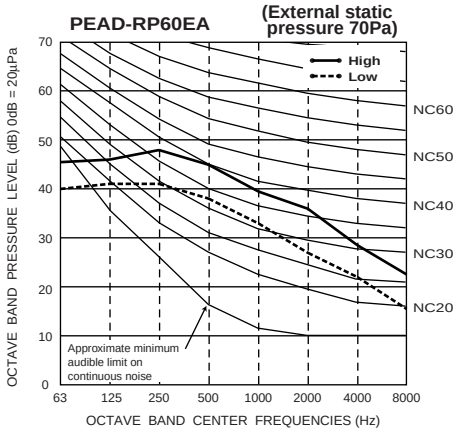
Model	External static pressure		
	30Pa	70Pa	130Pa
PEAD-RP35EA2	36-40	38-44*	-
PEAD-RP50EA	36-40	38-44*	-
PEAD-RP60EA	37-41	39-46*	-
PEAD-RP71EA	-	37-41	40-45*

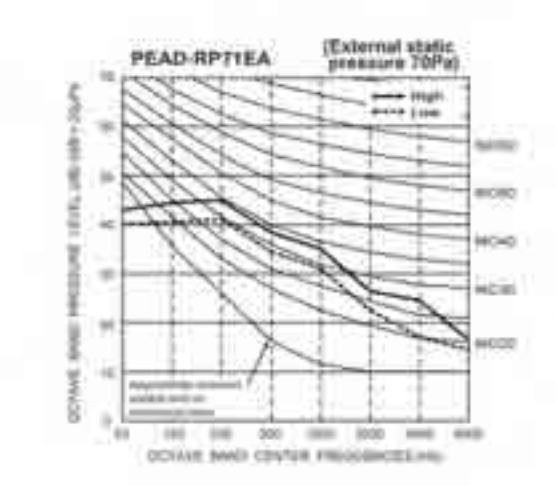
* Optional motor

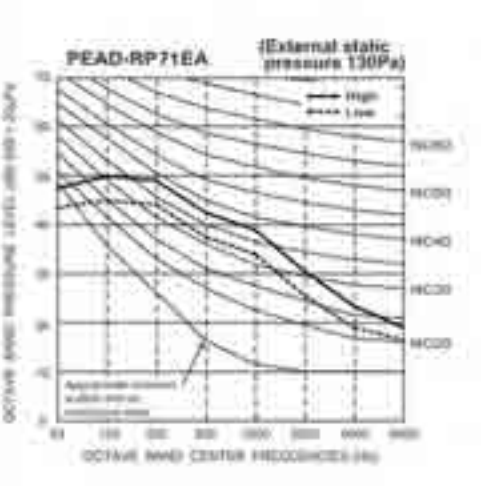


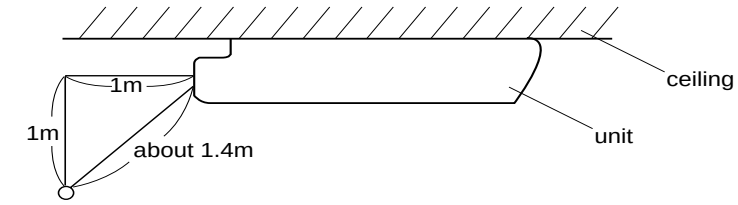








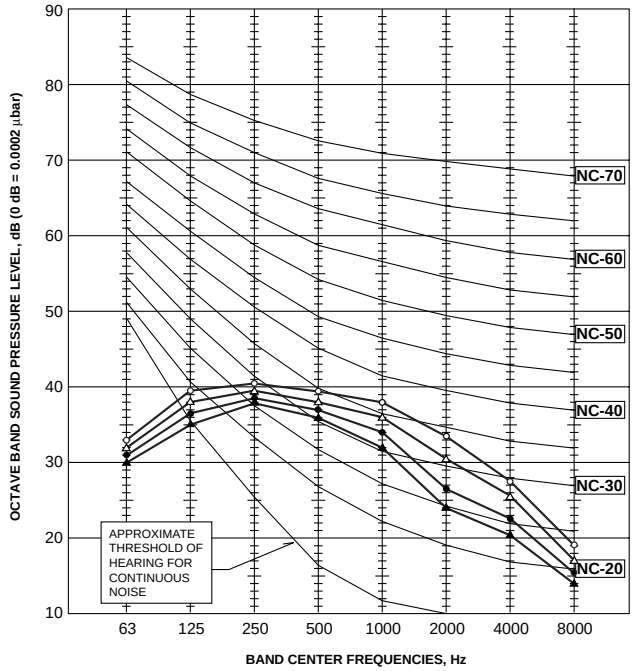




MICROPHONE

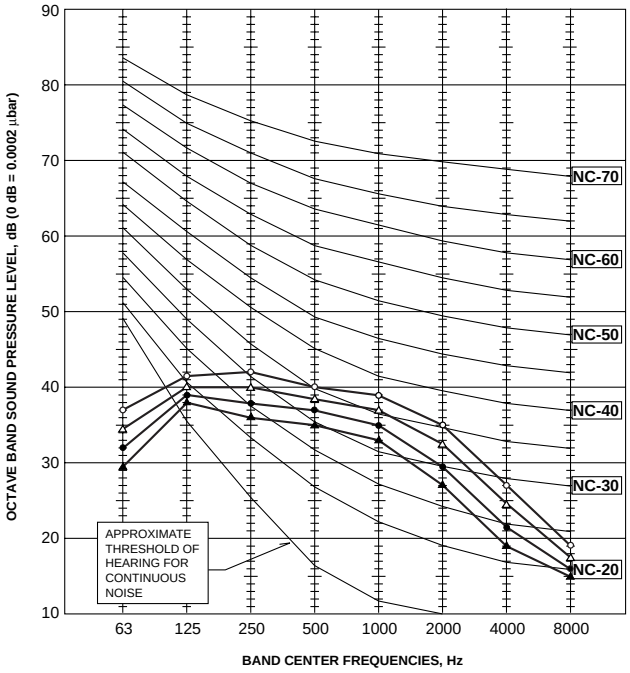
PCA-RP50GA

NOTCH	SPL(dB)	LINE
High	42	
Medium1	40	
Medium2	38	
Low	37	



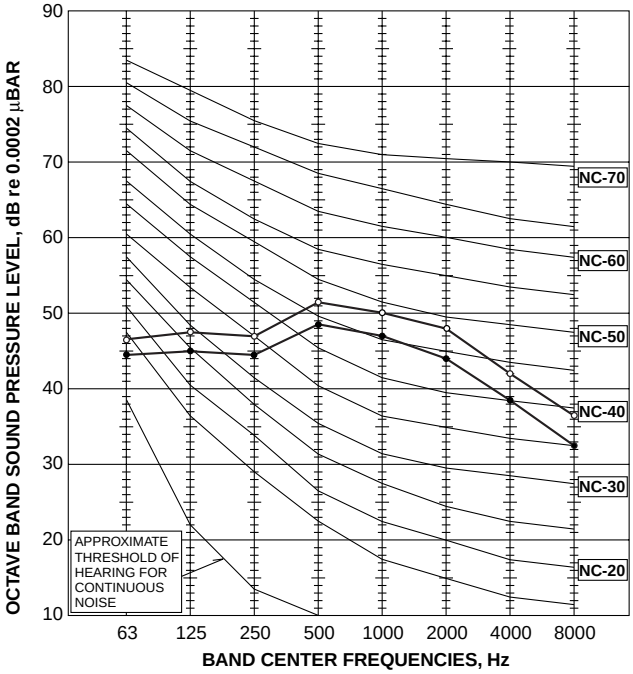
PCA-RP60GA
PCA-RP71GA

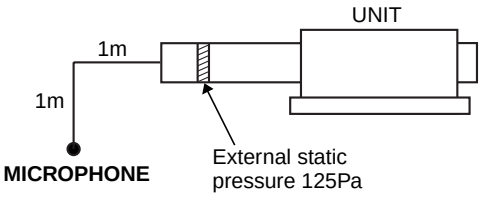
NOTCH	SPL(dB)	LINE
High	43	
Medium1	41	
Medium2	39	
Low	37	



PEA-RP71EA

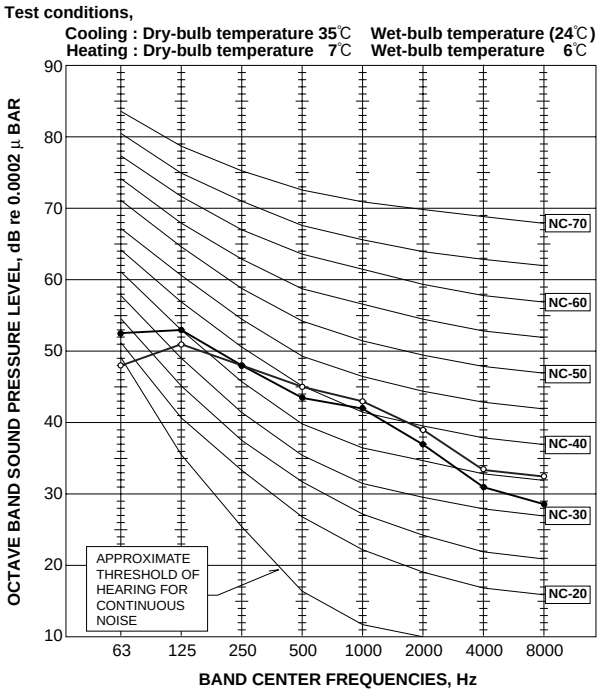
NOTCH	SPL(dB)	LINE
High	55	
Low	52	





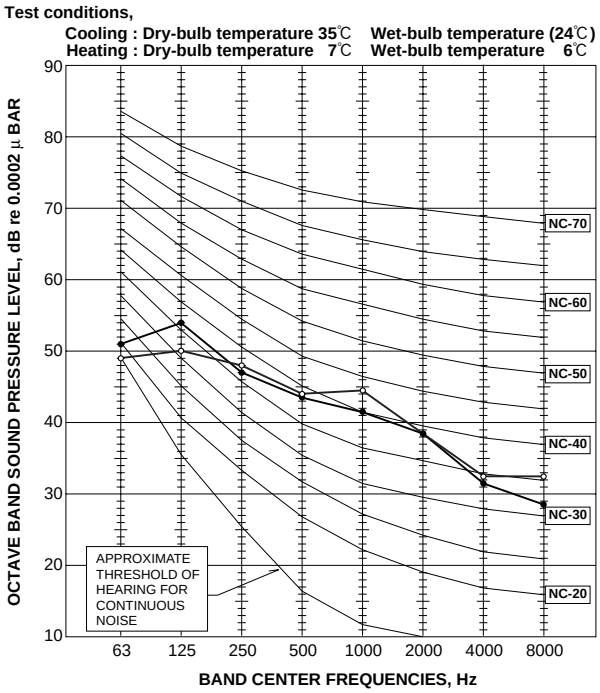
SUZ-KA25VA
SUZ-KA25VAH

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High Med.	COOLING	46	●——●
	HEATING	46	○——○



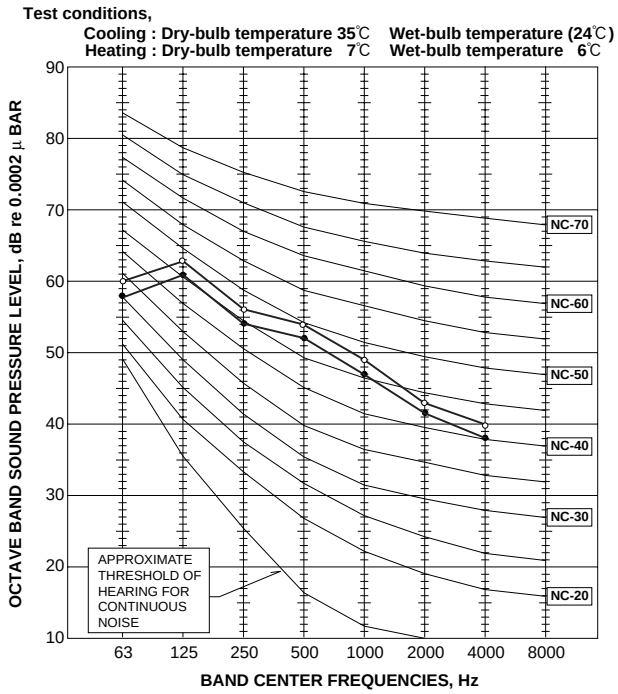
SUZ-KA35VA
SUZ-KA35VAH

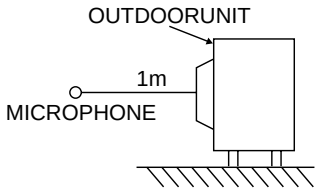
FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High Med.	COOLING	47	●——●
	HEATING	48	○——○



SUZ-KA50VA
SUZ-KA60VA
SUZ-KA71VA

FAN SPEED	FUNCTION	SPL(dB(A))	LINE
High	COOLING	53	●——●
	HEATING	55	○——○





10 OPTIONAL PARTS

10-1. INDOOR UNIT

Part Name	Model Name	Applicable model
Remote sensor	PAC-SE41TS-E	All models except MFZ-KA·VA
Remote operation adapter	PAC-SF40RM-E	
Multiple remote controller adapter	PAC-SA88HA-E(1pc.)	
	PAC-725AD(10pcs.)	
Remote on/off adapter	PAC-SE55RA-E	
MA & contact terminal interface	MAC-397IF-E	All models
Anti-Allergy Enzyme Filter(Air cleaning filter)	MAC-415FT-E	MFZ-KA·VA
Air filter	PAC-1000FT	SEZ-KA·VA
Multi-functional casement	PAC-SG03TM-E	PLA-RP·AA
High-efficiency filter element (PAC-SG03TM-E is needed.)	PAC-SG01KF	
Grille + Wireless remote controller	PLP-6AALM	
Grille + Wired remote controller	PLP-6AAMD	
Air outlet shutter plate (20 set, 2pcs/set)	PAC-SG06SP-E	
Wireless remote controller + Wireless Adapter	PAR-SL99B-E	PCA-RP·GA
Drain lift up mechanism	PAC-SH20DM-E	PCA-RP50,60GA
	PAC-SH21DM-E	PCA-RP71GA
High-efficiency filter	PAC-SE80KF-E	PCA-RP50GA
	PAC-SE81KF-E	PCA-RP60,71GA
Motor (for high external static pressure)	PAC-SK005MT-F	PEAD-RP71EA
Drain lift up mechanism	PAC-KE03DM-F	PEAD-RP·EA, EA2
Insulation kit	PAC-SK010DK	PEAD-RP·GA

10-2. OUTDOOR UNIT

Part Name	Model Name	Applicable model
Drain socket	MAC-851DS	SUZ-KA25,35VA
Drain socket assembly	MAC-811DS	SUZ-KA50,60,71VA

MITSUBISHI ELECTRIC CORPORATION
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Distributed in May 2006 No.OCS03 PDF 8
Made in Japan.

New publication, effective May 2006.
Specifications subject to change without notice.