

AIR CONDITIONING SYSTEMS

CITY MULTI



DATA BOOK

MODEL

INDOOR UNIT

PKFY-MS10-50VLM-E

PKFY-MS63-100VKM-E



PKFY-MS-VLM-E, PKFY-MS-VKM-E

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1. SPECIFICATIONS

Wall mounted

Model			PKFY-MS10VLM-E	PKFY-MS15VLM-E	PKFY-MS20VLM-E	
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	
Cooling capacity (Nominal)	*1	kW	1.2	1.7	2.2	
	*1	BTU / h	4,100	5,800	7,500	
(220V)	Power input		kW	0.02	0.02	
	Current input		A	0.20	0.20	
Heating capacity (Nominal)	*2	kW	1.4	1.9	2.5	
	*2	BTU / h	4,800	6,500	8,500	
(220V)	Power input		kW	0.01	0.01	
	Current input		A	0.15	0.15	
External finish			Plastic, MUNSELL (0.7PB 9.2/0.4)	Plastic, MUNSELL (0.7PB 9.2/0.4)	Plastic, MUNSELL (0.7PB 9.2/0.4)	
External dimension HxWxD			299x773x237	299x773x237	299x773x237	
			in.	11-25/32 x 30-7/16 x 9-11/32	11-25/32 x 30-7/16 x 9-11/32	
Net weight			kg(lbs)	11 (25)	11 (25)	
Heat exchanger			Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	
FAN	Type x Quantity		Line flow fan x 1	Line flow fan x 1	Line flow fan x 1	
	External static press.	Pa	0	0	0	
		mmH ₂ O	0	0	0	
	Motor Type		DC motor	DC motor	DC motor	
	Motor output		kW	0.030	0.030	
	Driving mechanism		Direct-driven	Direct-driven	Direct-driven	
	Airflow rate (Low-Mid2-Mid-High)	m ³ / min		3.3-3.5-3.8-4.2	4.0-4.2-4.4-4.7	4.0-4.4-4.9-5.4
		L/s		55-58-63-70	67-70-73-78	67-73-82-90
		cfm		117-124-134-148	141-148-155-166	141-155-173-191
	Sound pressure level (measured in anechoic room)			dB <A>	22-24-26-28	22-26-29-31
Insulation material			Polyethylene sheet	Polyethylene sheet	Polyethylene sheet	
Air filter			PP honeycomb	PP honeycomb	PP honeycomb	
Protection device			Fuse	Fuse	Fuse	
Refrigerant control device			LEV	LEV	LEV	
Connectable outdoor unit			R32 CITY MULTI	R32 CITY MULTI	R32 CITY MULTI	
Diameter of refrigerant pipe	Liquid	mm(in.)	6.35(1/4) Flare	6.35(1/4) Flare	6.35(1/4) Flare	
	Gas	mm(in.)	12.70(1/2) Flare	12.70(1/2) Flare	12.70(1/2) Flare	
Field drain pipe size			mm(in.)	I.D. 16(5/8)	I.D. 16(5/8)	
Drawing	External		-	-	-	
	Wiring		-	-	-	
	Refrigerant cycle		-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory		-	-	-	
Optional parts	Drain pump		PAC-SK01DM-E	PAC-SK01DM-E	PAC-SK01DM-E	
	Plasma Quad Connect		MAC-100FT-E	MAC-100FT-E	MAC-100FT-E	
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specification may be subject to change without notice.			

Notes:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
	Indoor: 27°C.D.B./19°C.W.B. (81°F.D.B./66°F.W.B.)	20°C.D.B. (68°F.D.B.)	BTU/h = kW x 3,412
	Outdoor: 35°C.D.B. (95°F.D.B.)	7°C.D.B./6°C.W.B. (45°F.D.B./43°F.W.B.)	cfm = m ³ /min x 35.31
	Pipe length: 7.5 m (24-9/16 ft.)	7.5 m (24-9/16 ft.)	lbs = kg/0.4536
	Level difference: 0 m (0 ft.)	0 m (0 ft.)	*The specification data is subject to rounding variation.

PKFY-MS-VLM-E, VKM-E

1. SPECIFICATIONS

Wall mounted

Model			PKFY-MS25VLM-E	PKFY-MS32VLM-E	PKFY-MS40VLM-E
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz
Cooling capacity (Nominal)	*1	kW	2.8	3.6	4.5
	*1	BTU / h	9,600	12,300	15,400
(220V)	Power input	kW	0.03	0.04	0.04
	Current input	A	0.25	0.35	0.35
Heating capacity (Nominal)	*2	kW	3.2	4.0	5.0
	*2	BTU / h	10,900	13,600	17,100
(220V)	Power input	kW	0.02	0.03	0.03
	Current input	A	0.20	0.30	0.30
External finish			Plastic, MUNSELL (0.7PB 9.2/0.4)	Plastic, MUNSELL (0.7PB 9.2/0.4)	Plastic, MUNSELL (0.7PB 9.2/0.4)
External dimension HxWxD		mm	299x773x237	299x773x237	299x898x237
		in.	11-25/32 x 30-7/16 x 9-11/32	11-25/32 x 30-7/16 x 9-11/32	11-25/32 x 35-3/8 x 9-11/32
Net weight		kg(lbs)	11 (25)	11 (25)	13(29)
Heat exchanger			Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)
FAN	Type x Quantity		Line flow fan x 1	Line flow fan x 1	Line flow fan x 1
	External static press.	Pa	0	0	0
		mmH ₂ O	0	0	0
	Motor Type		DC motor	DC motor	DC motor
	Motor output	kW	0.030	0.030	0.030
	Driving mechanism		Direct-driven	Direct-driven	Direct-driven
	Airflow rate (Low-Mid2-Mid-High)	m ³ / min	4.0-4.6-5.4-6.7	4.3-5.4-6.9-8.4	6.3-7.4-8.6-10.0
		L/s	67-77-90-112	72-90-115-140	105-123-143-167
		cfm	141-162-191-237	152-191-244-297	222-261-304-353
Sound pressure level (measured in anechoic room)		dB <A>	22-27-31-35	24-31-37-41	29-34-37-40
Insulation material			Polyethylene sheet	Polyethylene sheet	Polyethylene sheet
Air filter			PP honeycomb	PP honeycomb	PP honeycomb
Protection device			Fuse	Fuse	Fuse
Refrigerant control device			LEV	LEV	LEV
Connectable outdoor unit			R32 CITY MULTI	R32 CITY MULTI	R32 CITY MULTI
Diameter of refrigerant pipe	Liquid	mm(in.)	6.35(1/4) Flare	6.35(1/4) Flare	6.35(1/4) Flare
	Gas	mm(in.)	12.70(1/2) Flare	12.70(1/2) Flare	12.70(1/2) Flare
Field drain pipe size		mm(in.)	I.D. 16(5/8)	I.D. 16(5/8)	I.D. 16(5/8)
Drawing	External		-	-	-
	Wiring		-	-	-
	Refrigerant cycle		-	-	-
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book
	Accessory		-	-	-
Optional parts	Drain pump		PAC-SK01DM-E	PAC-SK01DM-E	PAC-SK01DM-E
	Plasma Quad Connect		MAC-100FT-E	MAC-100FT-E	MAC-100FT-E
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specification may be subject to change without notice.		

Notes:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
	Indoor: 27°C.D.B./19°C.W.B. (81°F.D.B./66°F.W.B.)	20°C.D.B. (68°F.D.B.)	BTU/h = kW x 3,412
	Outdoor: 35°C.D.B. (95°F.D.B.)	7°C.D.B./6°C.W.B. (45°F.D.B./43°F.W.B.)	cfm = m ³ /min x 35.31
	Pipe length: 7.5 m (24-9/16 ft.)	7.5 m (24-9/16 ft.)	lbs = kg/0.4536
	Level difference: 0 m (0 ft.)	0 m (0 ft.)	*The specification data is subject to rounding variation.

1. SPECIFICATIONS

Wall mounted

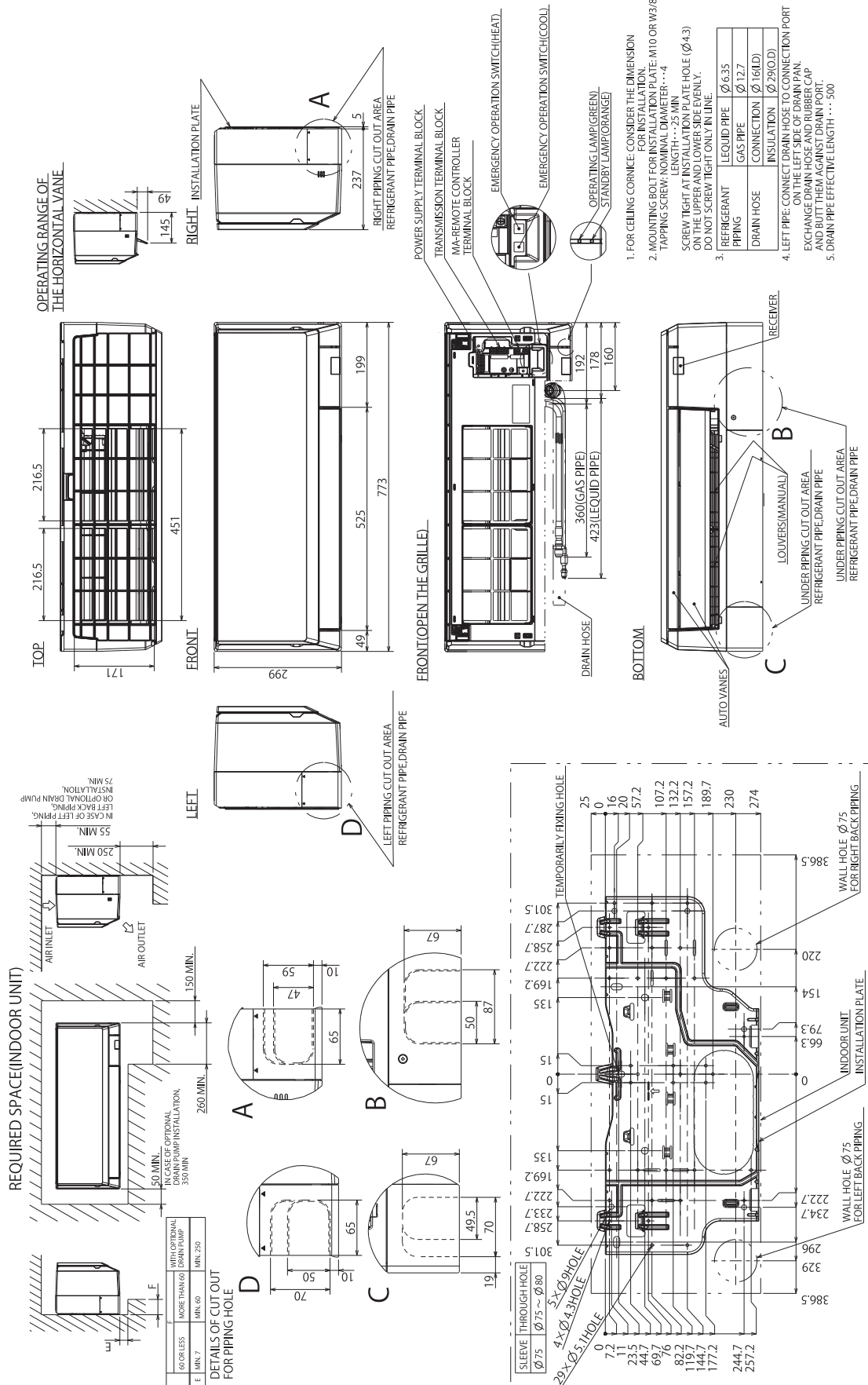
Model			PKFY-MS50VLM-E	PKFY-MS63VKM-E	PKFY-MS100VKM-E	
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	
Cooling capacity (Nominal) (220V)	*1	kW	5.6	7.1	11.2	
	*1	BTU / h	19,100	24,200	38,200	
		Power input	kW	0.05	0.05	0.08
		Current input	A	0.45	0.37	0.58
Heating capacity (Nominal) (220V)	*2	kW	6.3	8.0	12.5	
	*2	BTU / h	21,500	27,300	42,600	
		Power input	kW	0.04	0.04	0.07
		Current input	A	0.40	0.30	0.51
External finish			Plastic, MUNSELL (0.7PB 9.2/0.4)	Plastic, MUNSELL (1.0Y 9.2/0.2)	Plastic, MUNSELL (1.0Y 9.2/0.2)	
External dimension HxWxD			mm	299x898x237	365x1170x295	
			in.	11-25/32 x 35-3/8 x 9-11/32	14-3/8 x 46-1/16 x 11-5/8	14-3/8 x 46-1/16 x 11-5/8
Net weight			kg(lbs)	13(29)	21(46)	21(46)
Heat exchanger			Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	Cross fin (Aluminum fin and copper tube)	
FAN	Type x Quantity		Line flow fan x 1	Line flow fan x 1	Line flow fan x 1	
	External static press.	Pa	0	0	0	
		mmH ₂ O	0	0	0	
	Motor Type		DC motor	DC motor	DC motor	
	Motor output		kW	0.030	0.069	0.069
	Driving mechanism		Direct-driven	Direct-drive	Direct-drive	
	Airflow rate (Low-(Mid2-Mid)-High)	m ³ / min		6.8-8.3-10.2-12.4	16-20	20-26
		L/s		113-138-170-207	267-333	333-433
cfm		240-293-360-438	565-706	706-918		
Sound pressure level (measured in anechoic room)			dB <A>	31-36-41-46	39-42	41-49
Insulation material			Polyethylene sheet	Polyethylene sheet	Polyethylene sheet	
Air filter			PP honeycomb	PP honeycomb	PP honeycomb	
Protection device			Fuse	Fuse	Fuse	
Refrigerant control device			LEV	LEV	LEV	
Connectable outdoor unit			R32 CITY MULTI	R32 CITY MULTI	R32 CITY MULTI	
Diameter of refrigerant pipe	Liquid	mm(in.)	6.35(1/4) Flare	9.52(3/8) Flare	9.52(3/8) Flare	
	Gas	mm(in.)	12.70(1/2) Flare	15.88(5/8) Flare	15.88(5/8) Flare	
Field drain pipe size			mm(in.)	I.D. 16(5/8)	I.D. 16(5/8)	
Drawing	External		-	-	-	
	Wiring		-	-	-	
	Refrigerant cycle		-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory		-	-	-	
Optional parts	Drain pump		PAC-SK01DM-E	PAC-SK19DM-E	PAC-SK19DM-E	
	Plasma Quad Connect		MAC-100FT-E	MAC-100FT-E	MAC-100FT-E	
Remarks			* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. * Due to continuing improvement, above specification may be subject to change without notice.			

Notes:	*1 Nominal cooling conditions (subject to JIS B8615-1)	*2 Nominal heating conditions (subject to JIS B8615-1)	Unit converter BTU/h = kW x 3.412 cfm = m ³ /min x 35.31 lbs = kg/0.4536 *The specification data is subject to rounding variation.
	Indoor: 27°C.D.B./19°C.W.B. (81°F.D.B./66°F.W.B.) Outdoor: 35°C.D.B. (95°F.D.B.) Pipe length: 7.5 m (24-9/16 ft.) Level difference: 0 m (0 ft.)	20°C.D.B. (68°F.D.B.) 7°C.D.B./6°C.W.B. (45°F.D.B./43°F.W.B.) 7.5 m (24-9/16 ft.) 0 m (0 ft.)	

PKFY-MS-VLM-E, VKM-E

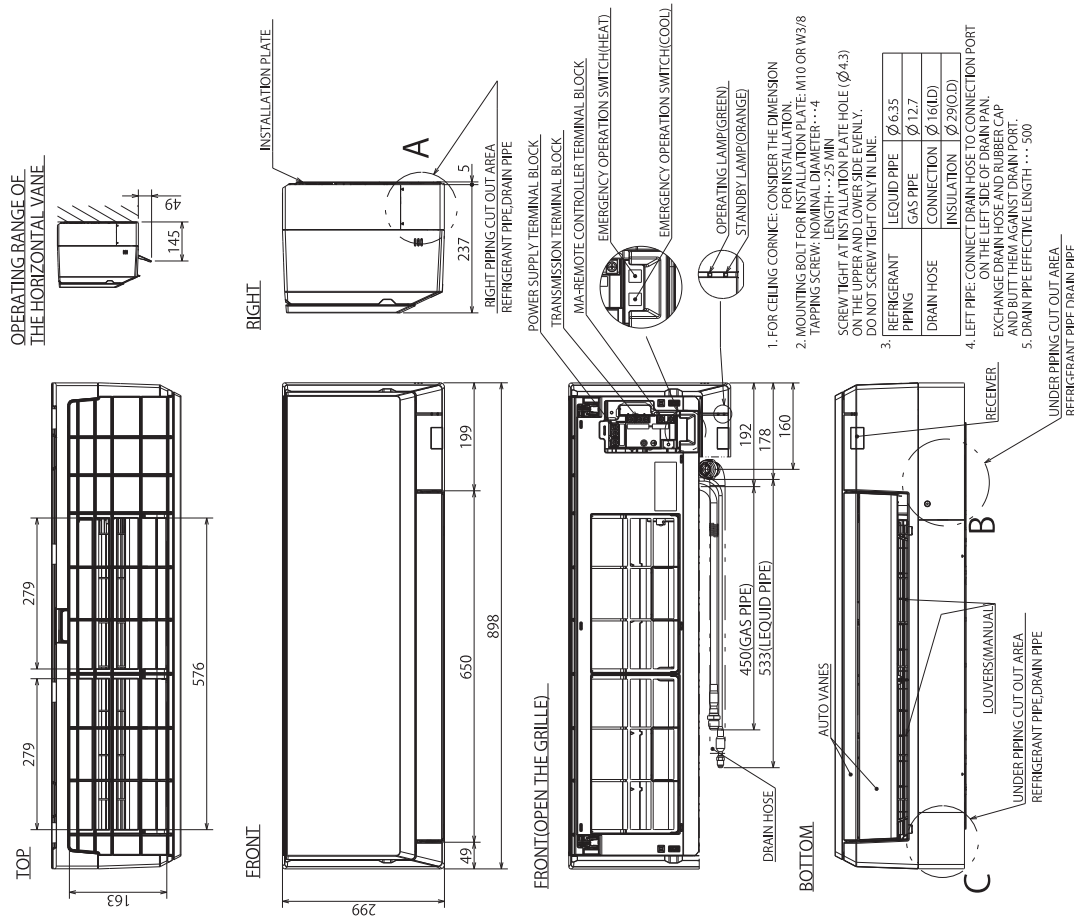
PKFY-MS10, 15, 20, 25, 32VLM-E

Unit: mm

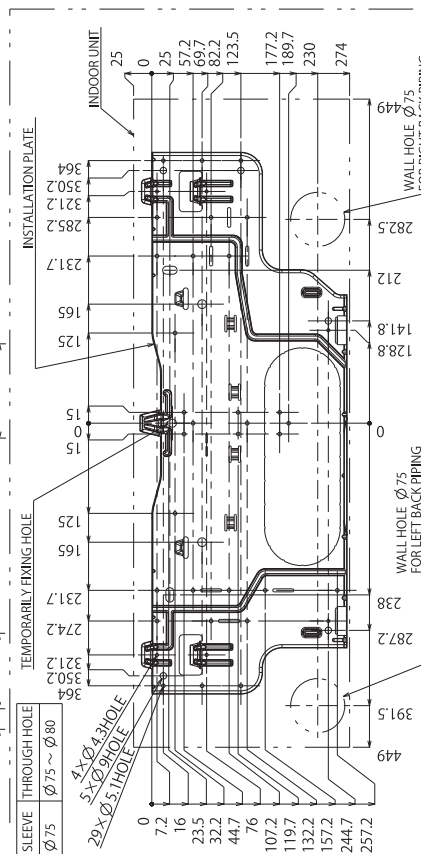
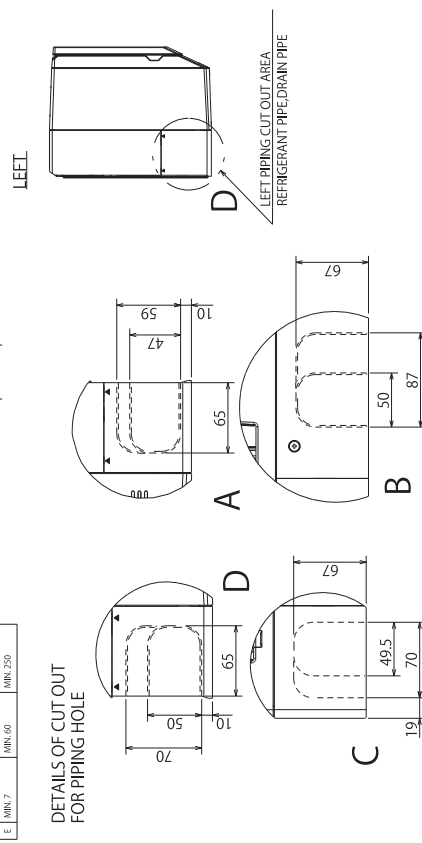
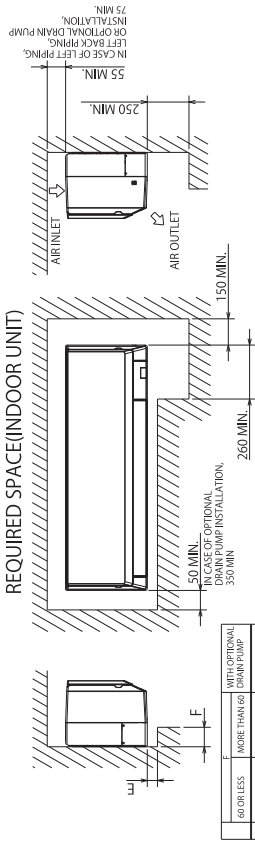


PKFY-MS40, 50VLM-E

Unit: mm



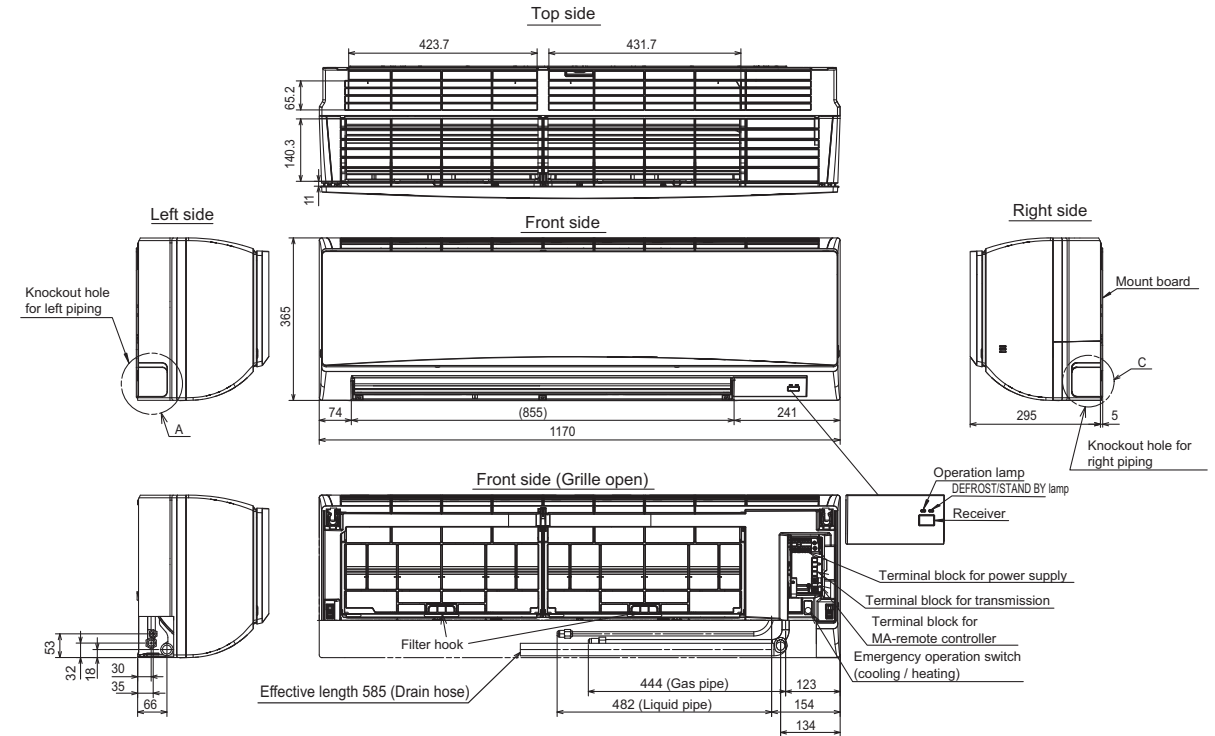
- FOR CEILING CORNICE, CONSIDER THE DIMENSION FOR INSTALLATION. MOUNTING BOLT FOR INSTALLATION PLATE: M10 OR W3/8 TAPPING SCREW: NOMINAL DRAMETER ... 4
- FOR WALL MOUNTING, CONSIDER THE DIMENSION FOR INSTALLATION. MOUNTING BOLT FOR INSTALLATION PLATE: M10 OR W3/8 TAPPING SCREW: NOMINAL DRAMETER ... 4
- REFRIGERANT PIPING: SCREW TIGHT AT INSTALLATION PLATE HOLE (Ø4.3) ON THE UPPER AND LOWER SIDE EVENLY. DO NOT SCREW TIGHT ONLY IN LINE.
- LEFT PIPE: CONNECT DRAIN HOSE TO CONNECTION PORT ON THE LEFT SIDE OF DRAIN PAN. EXCHANGE DRAIN HOSE AND RUBBER CAP AND BUTT THEM AGAINST DRAIN PORT.
- DRAIN PIPE EFFECTIVE LENGTH ... 500



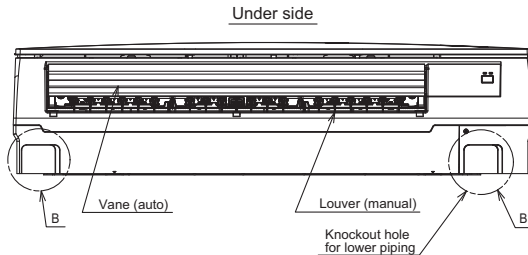
PKFY-MS-VLM-E, VKM-E

PKFY-MS63, 100VKM-E

Unit : mm

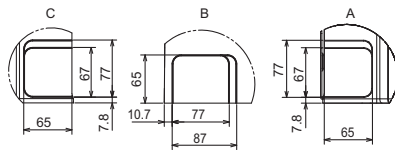


Sleeve (purchased locally)	Through hole
φ75	φ75~φ80

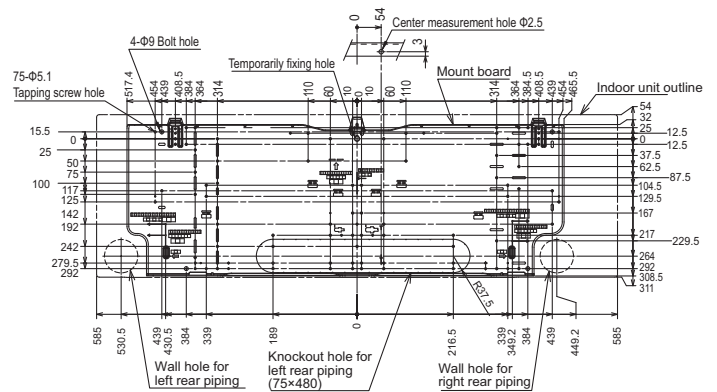
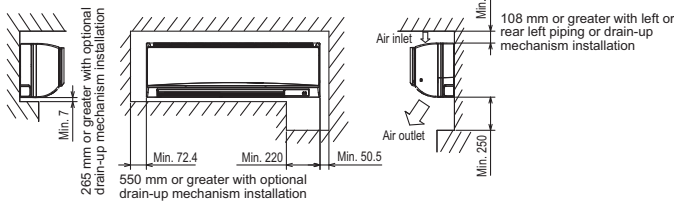


	Size	
	MS63	MS100
① Liquid pipe	Refrigerant pipe : φ9.52 Flared connection : 3/8F	
② Gas pipe	Refrigerant pipe : φ15.88 Flared connection : 5/8F	
③ Drain hose	φ16 O.D	

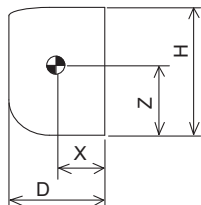
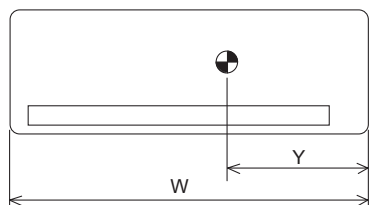
Knockout hole for piping



Required space (Indoor unit)



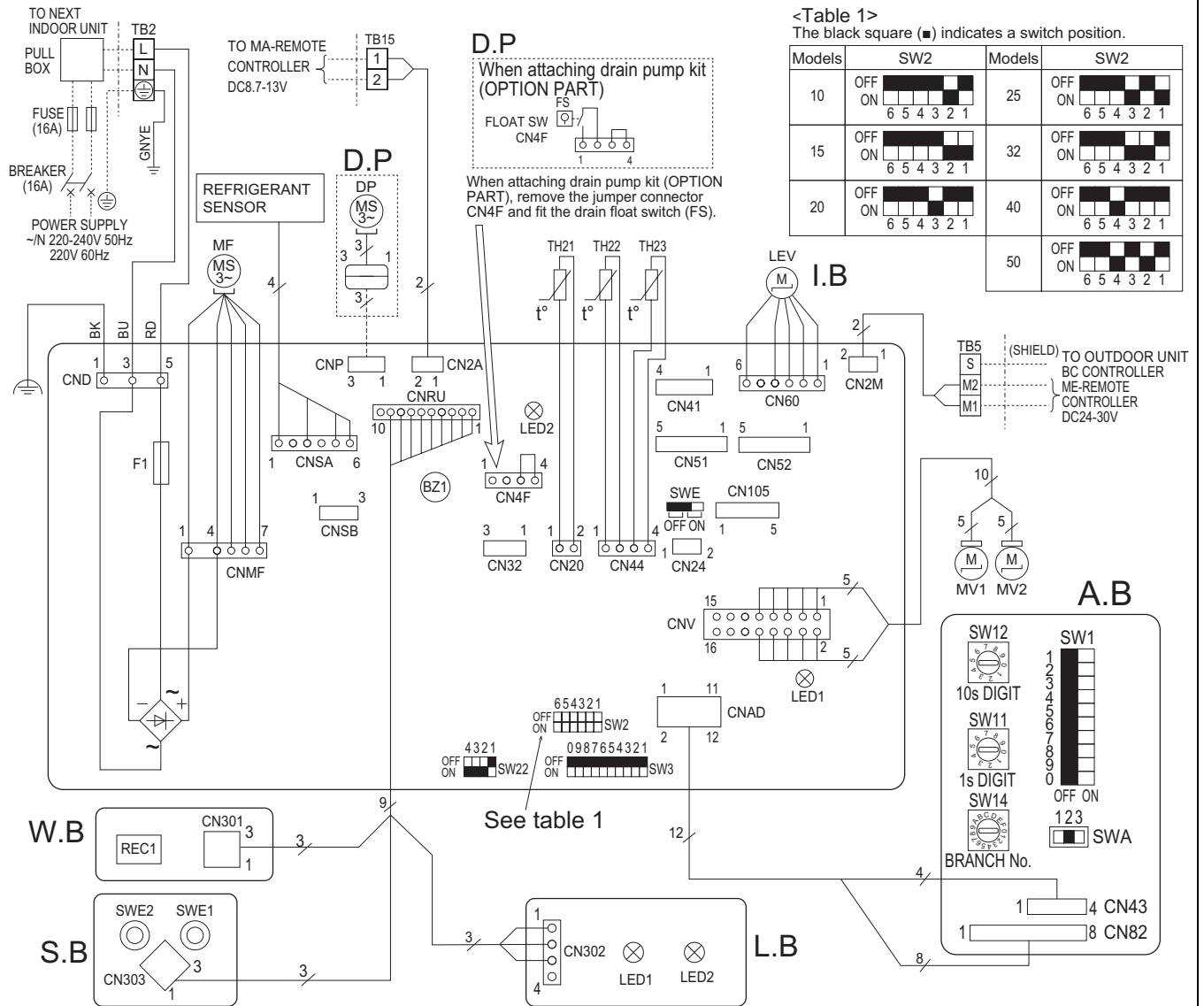
PKFY-MS-VLM-E, VKM-E



(mm)

Model	W	D	H	X	Y	Z
PKFY-MS10VLM-E	773	237	299	130	340	150
PKFY-MS15VLM-E	773	237	299	130	340	150
PKFY-MS20VLM-E	773	237	299	130	340	150
PKFY-MS25VLM-E	773	237	299	130	340	150
PKFY-MS32VLM-E	773	237	299	130	340	150
PKFY-MS40VLM-E	898	237	299	120	390	150
PKFY-MS50VLM-E	898	237	299	120	390	150
PKFY-MS63VKM-E	1170	295	365	190	460	190
PKFY-MS100VKM-E	1170	295	365	190	460	190

PKFY-MS10, 15, 20, 25, 32, 40, 50VLM-E



[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	TH21	THERMISTOR ROOM TEMP. DETECTION (0°C/15kΩ, 25°C/5.4kΩ)
CN32	CONNECTOR REMOTE SWITCH	TH22	PIPE TEMP. DETECTION / LIQUID (0°C/15kΩ, 25°C/5.4kΩ)
CN51	CENTRALLY CONTROL	TH23	PIPE TEMP. DETECTION / GAS (0°C/15kΩ, 25°C/5.4kΩ)
CN52	REMOTE INDICATION		
CN105	IT TERMINAL	A.B	ADDRESS BOARD
BZ1	BUZZER	SWA	SWITCH REGION SELECTION
F1	FUSE (T3.15A/250V)	SW1	SWITCH MODE SELECTION
LED1	POWER SUPPLY (I.B)	SW11	SWITCH ADDRESS SETTING 1s DIGIT
LED2	POWER SUPPLY (MA-REMOTE CONTROLLER)	SW12	SWITCH ADDRESS SETTING 10s DIGIT
SW2	SWITCH CAPACITY CODE	SW14	SWITCH BRANCH No.
SW3	SWITCH MODE SELECTION	S.B	SWITCH BOARD
SW22	SWITCH PAIR NO. SETTING	SWE1	SWITCH EMERGENCY OPERATION(HEAT)
SWE	SWITCH FAN-DRAIN PUMP (TEST MODE)	SWE2	SWITCH EMERGENCY OPERATION(COOL)
LEV	LINEAR EXPANSION VALVE	W.B	PCB FOR WIRELESS REMOTE CONTROLLER
MF	FAN MOTOR	REC1	RECEIVING UNIT
MV1	VANE MOTOR (UPPER)	L.B	LED BOARD
MV2	VANE MOTOR (LOWER)	LED1	LED(OPERATING INDICATOR:GREEN)
TB2	TERMINAL POWER SUPPLY	LED2	LED(STANDBY FOR HEATING : ORANGE)
TB5	BLOCK TRANSMISSION	D.P	DRAIN PUMP KIT (OPTIONAL PARTS)
TB15	BLOCK MA-REMOTE CONTROLLER	FS	DRAIN FLOAT SWITCH
		DP	DRAIN PUMP

NOTES:

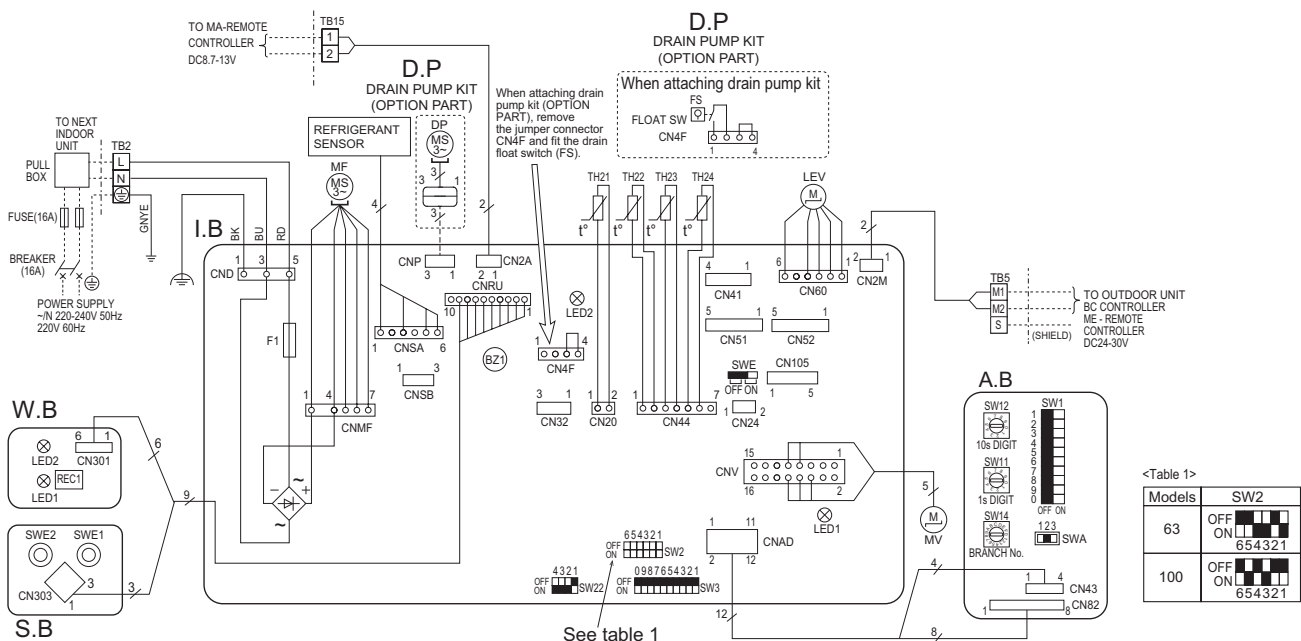
- At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
- In case of using MA-Remote controller, please connect to TB15. (Remote controller wire is non-polar.)
- In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
- Symbol [S] of TB5 is the shield wire connection.
- Symbols used in wiring diagram are, [] : terminal block, [] : connector.
- The setting of the SW2 dip switches differs in the capacity. For the detail, see table 1.
- The black square (■) in the wiring diagram indicates a switch position.

LED on indoor controller board for service

Symbol	Meaning	Function
LED1	Main power supply	Main power supply (Indoor unit:220-240V AC) Power on → lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit

PKFY-MS63, 100VKM-E

SYMBOL	NAME	SYMBOL	NAME
I.B	INDOOR CONTROLLER BOARD	TH23	THERMISTOR PIPE TEMP. DETECTION / GAS1 (0°C/15kΩ, 25°C/5.4kΩ)
CN32	CONNECTOR REMOTE SWITCH	TH24	PIPE TEMP. DETECTION / GAS2 (0°C/15kΩ, 25°C/5.4kΩ)
CN51	CENTRALLY CONTROL	A.B	ADDRESS BOARD
CN52	REMOTE INDICATION	SWA	SWITCH FAN SPEED SELECTOR
CN105	IT TERMINAL	SW1	MODE SELECTION
BZ1	BUZZER	SW11	ADDRESS SETTING 1s DIGIT
F1	FUSE (T3.15AL 250V)	SW12	ADDRESS SETTING 10s DIGIT
SW2	SWITCH CAPACITY CODE	SW14	BRANCH No.
SW3	MODE SELECTION	S.B	SWITCH BOARD
SW22	PAIR NO. SETTING	SWE1	EMERGENCY OPERATION(HEAT)
SWE	DRAIN PUMP(TEST MODE)	SWE2	EMERGENCY OPERATION(COOL)
LEV	LINEAR EXPANSION VALVE	W.B	PCB FOR WIRELESS REMOTE CONTROLLER
MF	FAN MOTOR	LED1	LED(OPERATION INDICATOR : GREEN)
MV	VANE MOTOR	LED2	LED(PREPARATION FOR HEATING : ORANGE)
TB2	TERMINAL POWER SUPPLY	REC1	RECEIVING UNIT
TB5	BLOCK TRANSMISSION	D.P	DRAIN PUMP KIT (OPTIONAL PARTS)
TB15	MA-REMOTE CONTROLLER	DP	DRAIN PUMP
TH21	THERMISTOR ROOM TEMP. DETECTION (0°C/15kΩ, 25°C/5.4kΩ)	FS	DRAIN FLOAT SWITCH
TH22	PIPE TEMP. DETECTION / LIQUID (0°C/15kΩ, 25°C/5.4kΩ)		



<Table 1>

Models	SW2
63	OFF ON 654321
100	OFF ON 654321

LED on indoor board for service

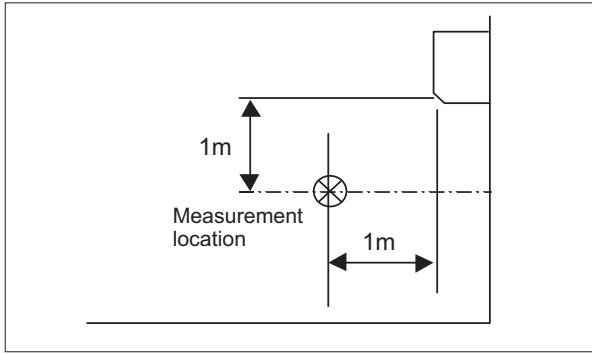
Mark	Meaning	Function
LED1	Main power supply	Main power supply (Indoor unit:220-240V AC) Power on → lamp is lit
LED2	Power supply for MA-Remote controller	Power supply for MA-Remote controller on → lamp is lit

NOTES:

1. At servicing for outdoor unit, always follow the wiring diagram of outdoor unit.
2. In case of using MA-Remote controller, please connect to TB15. (Remote controller wire is non-polar.)
3. In case of using M-NET, please connect to TB5. (Transmission line is non-polar.)
4. Symbol [S] of TB5 is the shield wire connection.
5. Symbols used in wiring diagram are, [] : terminal block, [] : connector.
6. The setting of the SW2 dip switches differs in the capacity. For the detail, see table 1.
7. The black square (■) in the wiring diagram indicates a switch position.

5-1. Sound levels

Wall mounted

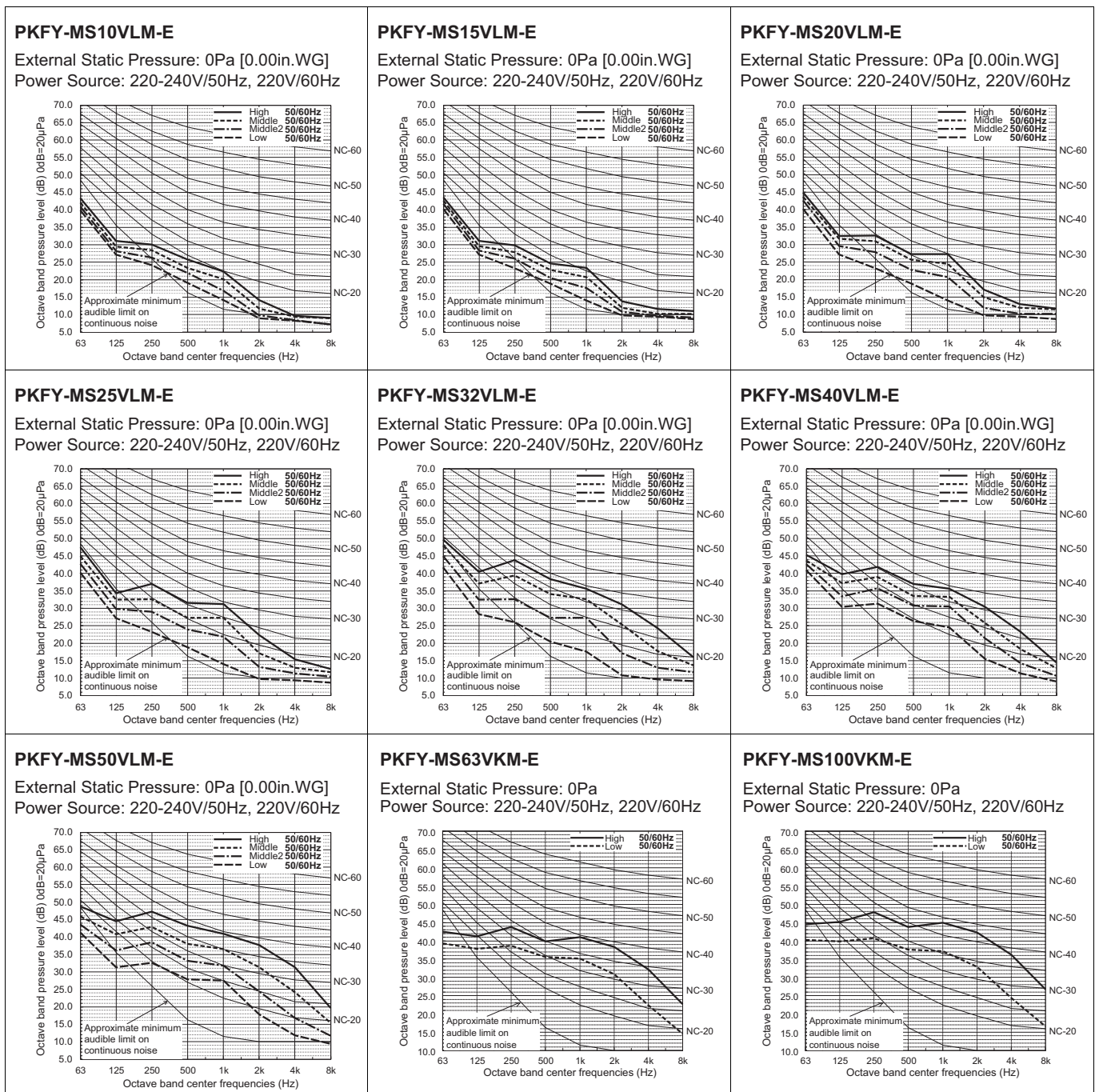


* Measured in anechoic room.

Sound level at anechoic room: Low-(Middle2-Middle)-High

Model	Sound level dB (A)
PKFY-MS10VLM-E	22-24-26-28
PKFY-MS15VLM-E	22-24-26-28
PKFY-MS20VLM-E	22-26-29-31
PKFY-MS25VLM-E	22-27-31-35
PKFY-MS32VLM-E	24-31-37-41
PKFY-MS40VLM-E	29-34-37-40
PKFY-MS50VLM-E	31-36-41-46
PKFY-MS63VKM-E	39-42
PKFY-MS100VKM-E	41-49

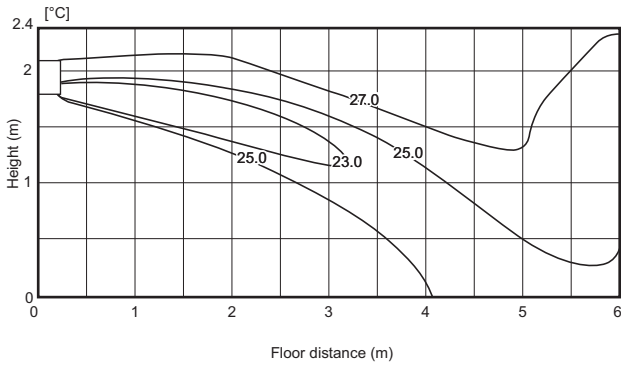
5-2. NC curves



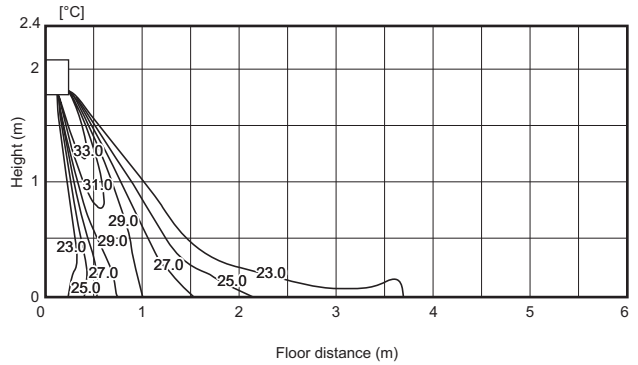
6-1. Temperature distributions

PKFY-MS32VLM-E

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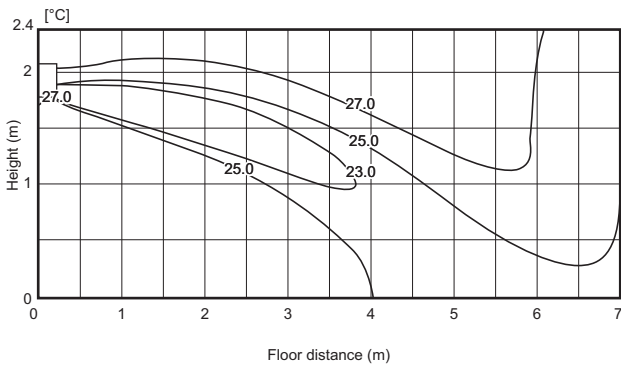


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Downward air flow

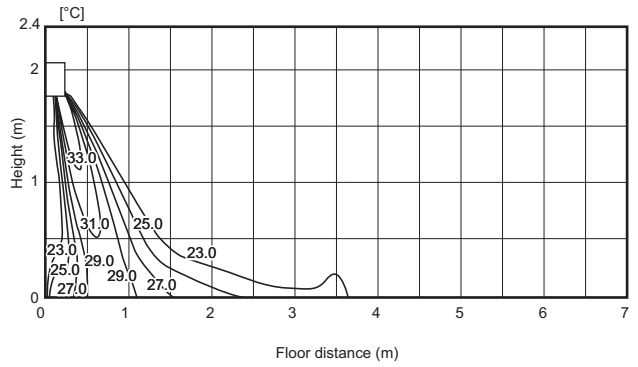


PKFY-MS50VLM-E

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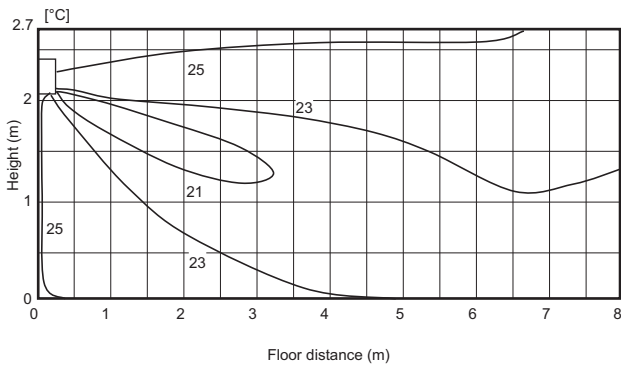


<Heating mode>
Downward air flow

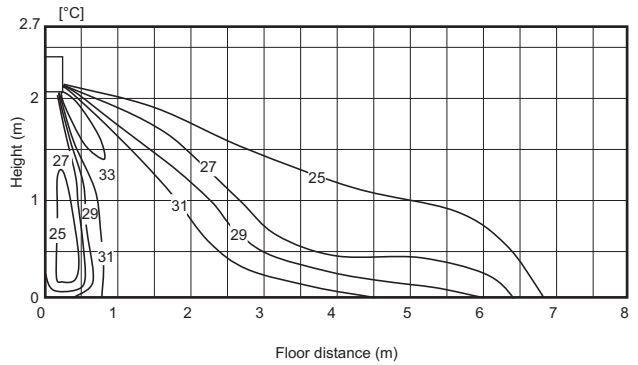


PKFY-MS63, 100VKM-E

<Cooling mode>
Horizontal air flow



<Heating mode>
Downward air flow



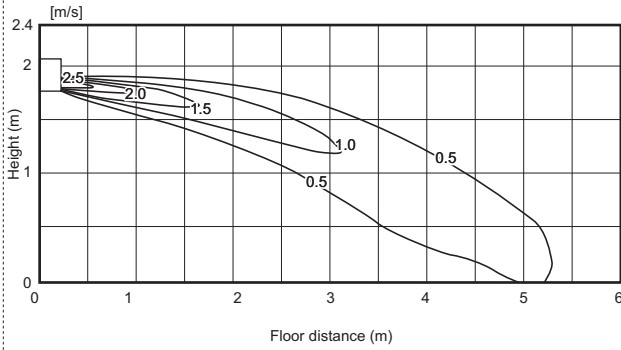
Note : These figures show typical temperature distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

PKFY-MS-VLM-E, VKM-E

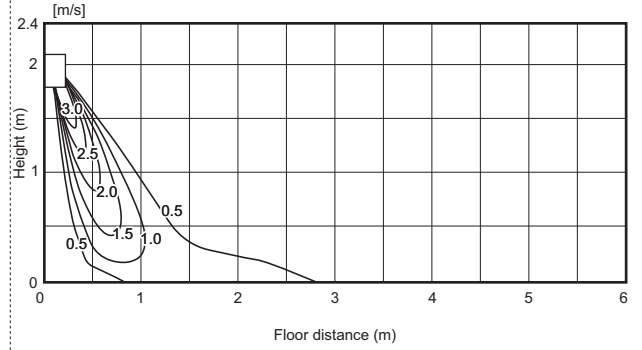
6-2. Airflow distributions

PKFY-MS32VLM-E

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Horizontal air flow

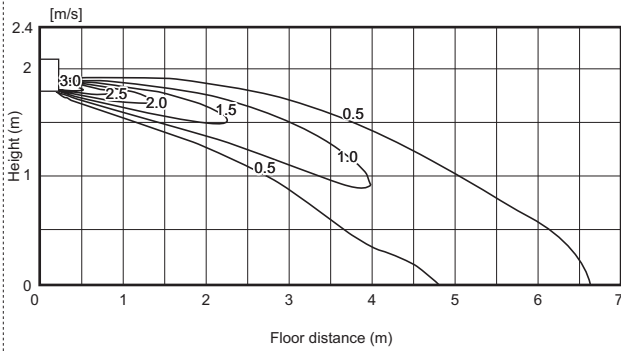


<Heating mode>
Downward air flow

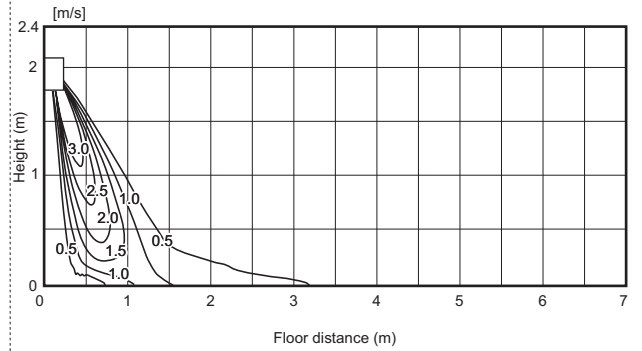


PKFY-MS50VLM-E

<Cooling mode>
Horizontal air flow

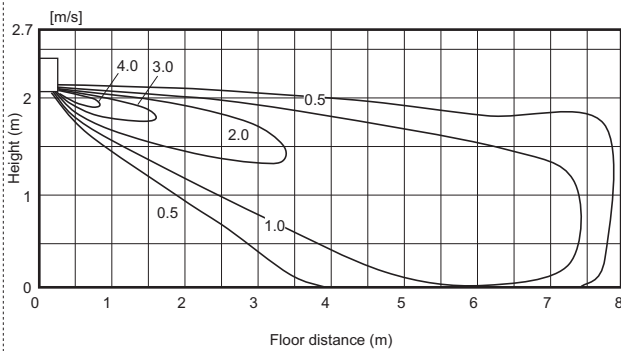


<Heating mode>
Downward air flow

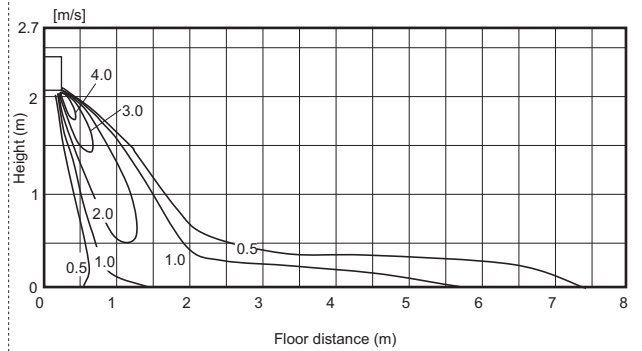


PKFY-MS63, 100VKM-E

<Fan mode>
Horizontal air flow



<Fan mode>
Downward air flow



Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

7. ELECTRICAL CHARACTERISTICS

Wall mounted

Symbols: MCA (Max.Circuit Amps =1.25xFLA), FLA (Full Load Amps)
IFM (Indoor Fan Motor), Output (Fan motor rated output)

Model name	Power supply			IFM	
	Volts/Hz	Range +-10%	MCA(A)	Output (kW)	FLA(A)
PKFY-MS10VLM-E	220-240V/50Hz 220V/60Hz	Max.: 264V Min.: 198V	0.25	0.030	0.20
PKFY-MS15VLM-E			0.25	0.030	0.20
PKFY-MS20VLM-E			0.25	0.030	0.20
PKFY-MS25VLM-E			0.32	0.030	0.25
PKFY-MS32VLM-E			0.44	0.030	0.35
PKFY-MS40VLM-E			0.44	0.030	0.35
PKFY-MS50VLM-E			0.57	0.030	0.45

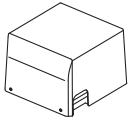

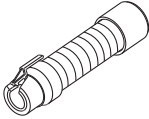
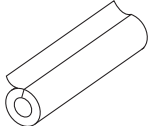
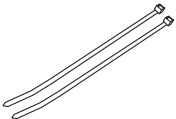
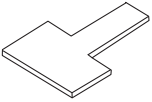
Model name	Power supply			IFM	
	Volts/Hz	Range +-10%	MCA(A)	Output (kW)	FLA(A)
PKFY-MS63VKM-E	220-240V/50Hz	Max.: 264V	0.36	0.069	0.29
PKFY-MS100VKM-E	220V/60Hz	Min.: 198V	0.63	0.069	0.50

8-1. Optional parts line up for the Indoor unit

	Drain pump	Plasma Quad Connect
PKFY-MS10VLM-E	PAC-SK01DM-E	MAC-100FT-E
PKFY-MS15, 20, 25, 32, 40, 50VLM-E	PAC-SK01DM-E	MAC-100FT-E
PKFY-MS63, 100VKM-E	PAC-SK19DM-E	MAC-100FT-E

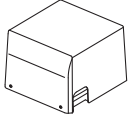

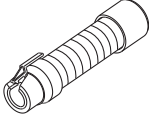
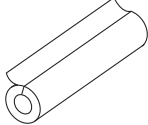
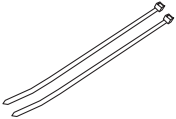
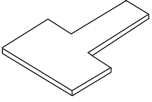
8-2. Drain pump

PAC-SK01DM-E

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed. Drain pump PAC-SK01DM-E can pump water up to 850mm [33-1/2 in.] high from the drain pan.					
Item	① Drain pump	② Screw	③ Drain hose	④ Flexible hose cover	⑤ Band
Quantity	1	(M4×16)×1, (M4×35)×6	1	1	2
Shape					
Item	⑥ Paper gauge				
Quantity	1				
Shape					

Detailed installation information should be referred to its Installation Manual.

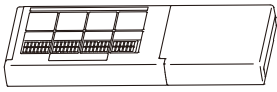


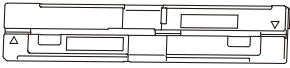

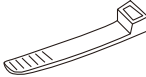

PAC-SK19DM-E

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed. Drain pump PAC-SK19DM-E can pump water up to 850mm [33-1/2 in.] high from the drain pan.					
Item	① Drain pump	② Screw	③ Drain hose	④ Flexible hose cover	⑤ Band
Quantity	1	(M4×16)×1, (M4×35)×6	1	1	2
Shape					
Item	⑥ Paper gauge				
Quantity	1				
Shape					

Detailed installation information should be referred to its Installation Manual.

8-3. Plasma Quad Connect

MAC-100FT-E

Item	Plasma Quad Connect (with connecting cable)	Installation plate	Fixing screw for Plasma Quad Connect and Installation plate 4 × 25 mm
Quantity	1	1	5
Shape			
Item	Spacer Note: The spacer is used as packaging material.	Mounting cord clamp	Cable tie
Quantity	1	1	1
Shape			
Item	Screw for Mounting cord clamp 4 × 16 (Use when joining room air conditioner parts)		
Quantity	1		
Shape			

Detailed installation information should be referred to its Installation Manual.

PKFY-MS-VLM-E, VKM-E

⚠ Warning

- Do not use refrigerant other than the type indicated in the manuals provided with the unit and on the nameplate.
 - Doing so may cause the unit or pipes to burst, or result in explosion or fire during use, repair, or at the time of disposal of the unit.
 - It may also be in violation of applicable laws.
 - MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.
- Our air conditioning equipment and heat pumps contain a fluorinated greenhouse gas, R32.

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