

PCFY-P-VKM-E

1. SPECIFICATIONS	1 - 144
2. EXTERNAL DIMENSIONS	1 - 145
3. CENTER OF GRAVITY	1 - 148
4. ELECTRICAL WIRING DIAGRAMS	1 - 149
5. SOUND LEVELS	1 - 150
5-1. Sound levels	1 - 150
5-2. NC curves	1 - 150
6. OA INTAKE-STATIC PRESSURE CURVES	1 - 151
7. TEMPERATURE/AIRFLOW DISTRIBUTIONS	1 - 152
7-1. Temperature distributions	1 - 152
7-2. Airflow distributions	1 - 153
8. OPTIONAL PARTS	1 - 154
8-1. Optional parts line up for the Indoor unit	1 - 154
8-2. High efficiency filter	1 - 154
8-3. Drain pump	1 - 154
8-4. Wireless remote controller kit	1 - 154

1. SPECIFICATIONS

DATA G5

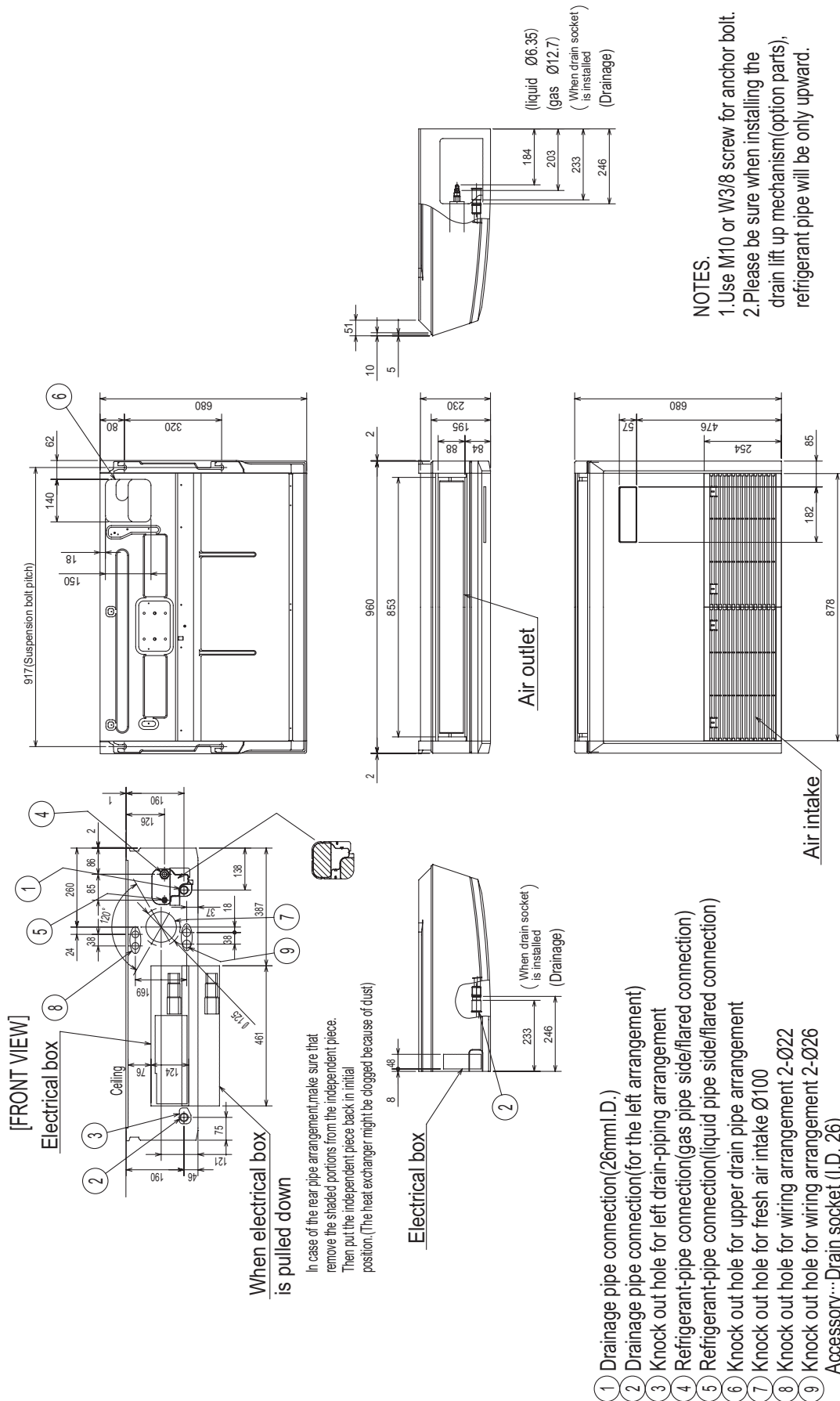
Model			PCFY-P40VKM-E	PCFY-P63VKM-E	PCFY-P100VKM-E	PCFY-P125VKM-E	
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	1-phase 220-240V 50Hz, 1-phase 220V 60Hz	
Cooling capacity (Nominal)		*1 kW	4.5	7.1	11.2	14.0	
		*1 kcal / h	3,900	6,100	9,600	12,000	
		*1 BTU / h	15,400	24,200	38,200	47,800	
		*2 kcal / h	4,000	6,300	10,000	12,500	
	(220V)	Power input	kW	0.04	0.05	0.09	0.11
		Current input	A	0.28	0.33	0.65	0.76
Heating capacity (Nominal)		*3 kW	5.0	8.0	12.5	16.0	
		*3 kcal / h	4,300	6,900	10,800	13,800	
		*3 BTU / h	17,100	27,300	42,700	54,600	
		Power input	kW	0.04	0.05	0.09	0.11
	(220V)	Current input	A	0.28	0.33	0.65	0.76
		External finish		MUNSELL (6.4Y 8.9/0.4)	MUNSELL (6.4Y 8.9/0.4)	MUNSELL (6.4Y 8.9/0.4)	MUNSELL (6.4Y 8.9/0.4)
External dimension HxWxD		mm	230x960x680	230x1280x680	230x1600x680	230x1600x680	
		in.	9-1/16 x 37-13/16 x 26-3/4	9-1/16 x 50-3/8 x 26-3/4	9-1/16 x 63 x 26-3/4	9-1/16 x 63 x 26-3/4	
Net weight		kg(lbs)	24(53)	32(71)	36(79)	38(84)	
Heat exchanger			Cross fin (Aluminum fin and copper tube)	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		Sirocco fan x 2	Sirocco fan x 3	Sirocco fan x 4	Sirocco fan x 4	
	External static press.	Pa	0	0	0	0	
		mmH ₂ O	0	0	0	0	
	Motor Type		DC motor	DC motor	DC motor	DC motor	
	Motor output		kW	0.090	0.095	0.160	0.160
	Driving mechanism		Direct-drive	Direct-drive	Direct-drive	Direct-drive	
	Air flow rate (Low-Mid2-Mid1-High)	m ³ / min	10-11-12-13	14-15-16-18	21-24-26-28	21-24-27-31	
		L/s	167-183-200-217	233-250-267-300	350-400-433-467	350-400-450-517	
cfm		353-388-424-459	494-530-565-636	742-847-918-989	742-847-953-1095		
Sound pressure level (measured in anechoic room)		dB <A>	29-32-34-36	31-33-35-37	36-38-41-43	36-39-42-44	
Insulation material			Polyeter sheet	Polyeter sheet	Polyeter sheet	Polyeter sheet	
Air filter			PP honeycomb (long life)	PP honeycomb (long life)	PP honeycomb (long life)	PP honeycomb (long life)	
Protection device			Fuse	Fuse	Fuse	Fuse	
Refrigerant control device			LEV	LEV	LEV	LEV	
Connectable outdoor unit			R410A, R407C, R22 CITY MULTI	R410A, R407C, R22 CITY MULTI	R410A, R407C, R22 CITY MULTI	R410A, R407C, R22 CITY MULTI	
Diameter of refrigerant pipe	Liquid (R410A) (R22, R407C)	mm(in.)	6.35(1/4) Flare	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare	
			6.35(1/4) Flare	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare	
	Gas (R410A) (R22, R407C)	mm(in.)	12.70(1/2) Flare	15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare	
			12.70(1/2) Flare	15.88(5/8) Flare	19.05(3/4) Flare	19.05(3/4) Flare	
Field drain pipe size		mm(in.)	O.D. 26mm(1)	O.D. 26mm(1)	O.D. 26mm(1)	O.D. 26mm(1)	
Drawing	External		-	-	-	-	
	Wiring		-	-	-	-	
	Refrigerant cycle		-	-	-	-	
Standard attachment	Document		Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	Installation Manual, Instruction Book	
	Accessory		-	-	-	-	
Optional parts	Circular duct flange		-	-	-	-	
	Drain pump kit		PAC-SH83DM-E	PAC-SH84DM-E	PAC-SH84DM-E	PAC-SH84DM-E	
	Square duct flange		-	-	-	-	
	Filter box for rear suction		-	-	-	-	
	Filter box for bottom suction		-	-	-	-	
	Canvas duct for bottom suction		-	-	-	-	
	Medium efficiency filter 65%		-	-	-	-	
	High efficiency filter		PAC-SH88KF-E	PAC-SH89KF-E	PAC-SH90KF-E	PAC-SH90KF-E	
	Maintenance panel with air intake		-	-	-	-	
	Wireless remote controller kit		PAR-SL94B-E	PAR-SL94B-E	PAR-SL94B-E	PAR-SL94B-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.	* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.	* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.	* Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual.	

Notes :	*1 Nominal cooling conditions (subject to JIS B8615-1)		*2 Nominal cooling conditions	*3 Nominal heating conditions (subject to JIS B8615-1)	Unit converter
	Indoor :	27degC D.B. / 19degC W.B. (81degF D.B. / 66degF W.B.)	27degC D.B. / 19.5degC W.B. (81degF D.B. / 67degF W.B.)	20degC D.B. (68degF D.B.)	kcal/h = kW x 860 BTU/h = kW x 3,412
	Outdoor :	35degC D.B. (95degF D.B.)	35degC D.B. (95degF D.B.)	7degC D.B. / 6degC W.B. (45degF D.B. / 43degF W.B.)	cfm = m3/min x 35.31 lbs = kg / 0.4536
	Pipe length :	7.5 m (24-9/16 ft.)	5 m (16-3/8 ft.)	7.5 m (24-9/16 ft.)	*The specification data is subject to rounding variation.
	Level difference :	0 m (0 ft.)	0 m (0 ft.)	0 m (0 ft.)	

Ref.: Spec_PCFY-P40-125VKM-E

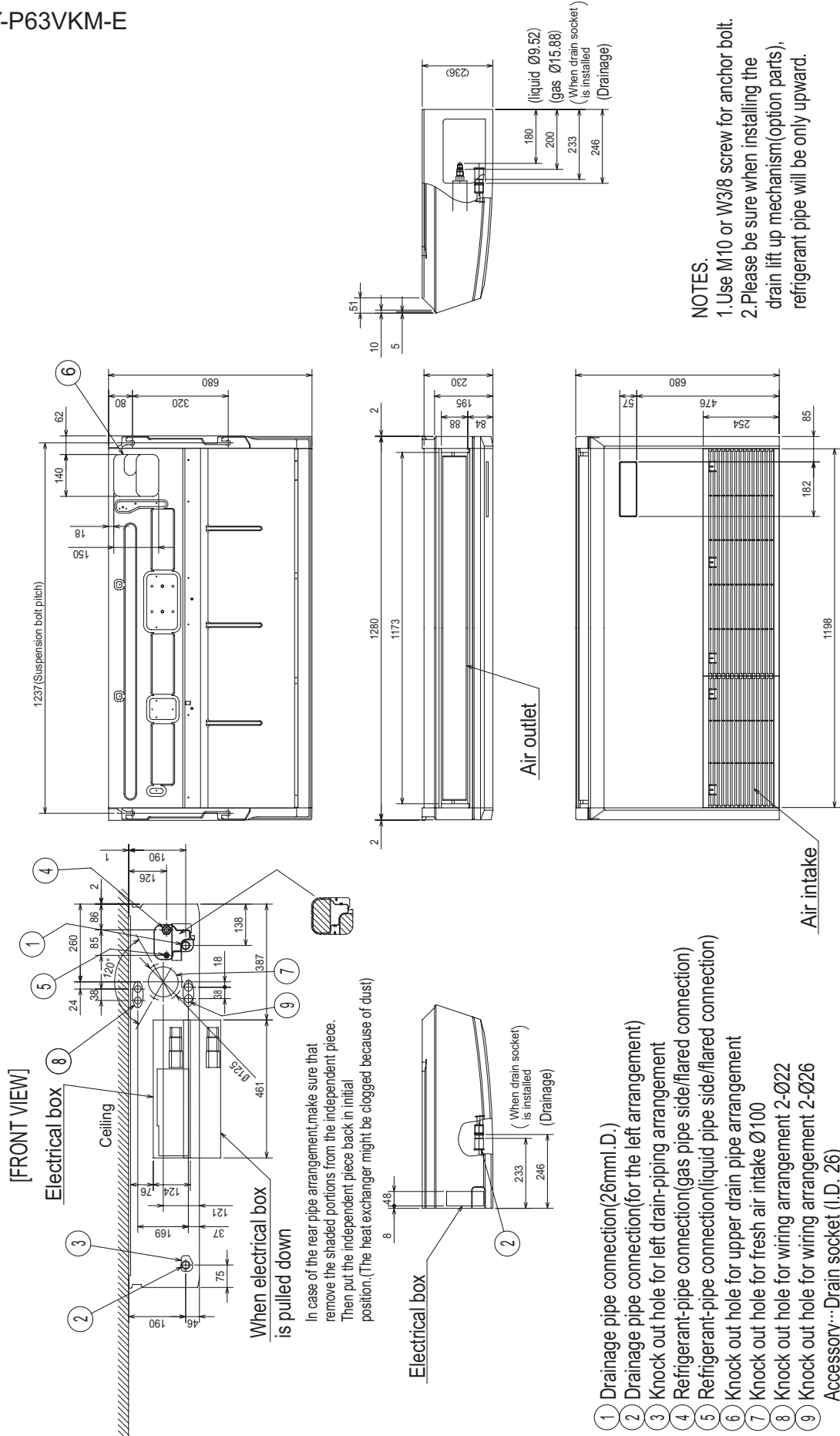
PCFY-P40VKM-E

Unit : mm



PCFY-P63VKM-E

Unit : mm



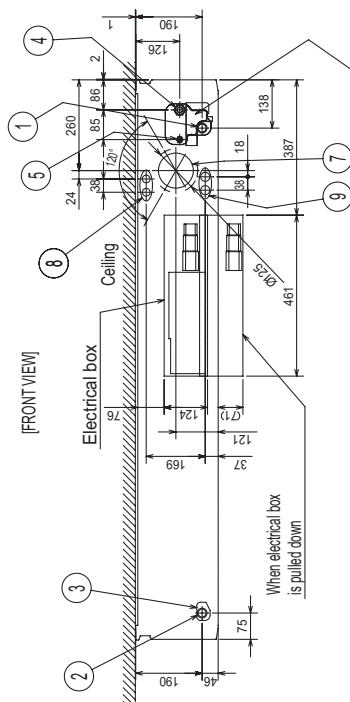
- 1 Drainage pipe connection (26mm I.D.)
 - 2 Drainage pipe connection (for the left arrangement)
 - 3 Knock out hole for left drain-piping arrangement
 - 4 Refrigerant-pipe connection (gas pipe side/flared connection)
 - 5 Refrigerant-pipe connection (liquid pipe side/flared connection)
 - 6 Knock out hole for upper drain pipe arrangement
 - 7 Knock out hole for fresh air intake Ø100
 - 8 Knock out hole for wiring arrangement 2-Ø22
 - 9 Knock out hole for wiring arrangement 2-Ø26
- Accessory... Drain socket (I.D. 26)

PCFY-P100,125VKM-E

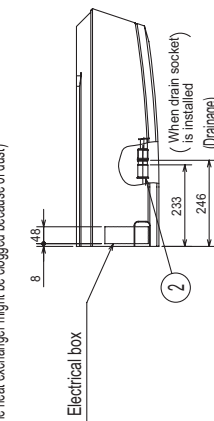
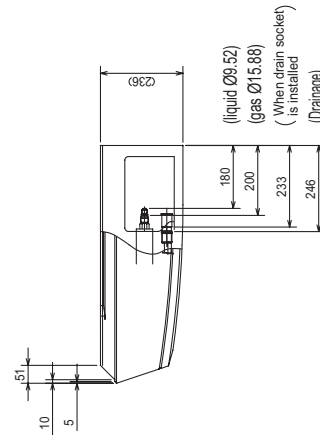
Unit : mm

- ⑥ Knock out hole for upper drain pipe arrangement
- ⑦ Knock out hole for fresh air intake Ø100
- ⑧ Knock out hole for wiring arrangement 2-Ø22
- ⑨ Knock out hole for wiring arrangement 2-Ø26
- Accessory : Drain socket (I.D. 26)

- ① Drainage pipe connection(26mm I.D.)
- ② Drainage pipe connection(for the left arrangement)
- ③ Knock out hole for left drain-pipe arrangement
- ④ Refrigerant-pipe connection(gas pipe side/flared connection)
- ⑤ Refrigerant-pipe connection(liquid pipe side/flared connection)



In case of the rear pipe arrangement, make sure that remove the shaded portions from the independent piece. Then put the independent piece back in initial position. (The heat exchanger might be clogged because of dust)

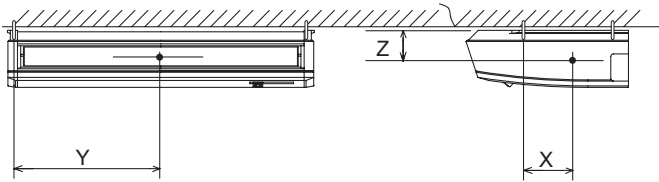


Use the current nuts meeting the pipe size of the outdoor unit.

NOTES.

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

PCFY-P40,63,100,125VKM-E



Model name	X	Y	Z
PCFY-P40VKM-E	110	450	115
PCFY-P63VKM-E	110	610	115
PCFY-P100VKM-E	110	770	115
PCFY-P125VKM-E	110	770	115

PCFY

DATA G5

PCFY

A.B

MAIN POWER (M.V.)

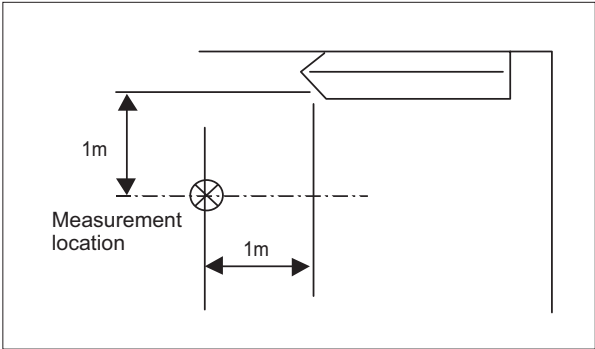
SW1, SW2, SW3, SW4, SW5, SW6, SW7, SW8, SW9, SW10, SW11, SW12, SW13, SW14, SW15, SW16, SW17, SW18, SW19, SW20, SW21, SW22, SW23, SW24, SW25, SW26, SW27, SW28, SW29, SW30, SW31, SW32, SW33, SW34, SW35, SW36, SW37, SW38, SW39, SW40, SW41, SW42, SW43, SW44, SW45, SW46, SW47, SW48, SW49, SW50, SW51, SW52, SW53, SW54, SW55, SW56, SW57, SW58, SW59, SW60, SW61, SW62, SW63, SW64, SW65, SW66, SW67, SW68, SW69, SW70, SW71, SW72, SW73, SW74, SW75, SW76, SW77, SW78, SW79, SW80, SW81, SW82, SW83, SW84, SW85, SW86, SW87, SW88, SW89, SW90, SW91, SW92, SW93, SW94, SW95, SW96, SW97, SW98, SW99, SW100, SW101, SW102, SW103, SW104, SW105, SW106, SW107, SW108, SW109, SW110, SW111, SW112, SW113, SW114, SW115, SW116, SW117, SW118, SW119, SW120, SW121, SW122, SW123, SW124, SW125, SW126, SW127, SW128, SW129, SW130, SW131, SW132, SW133, SW134, SW135, SW136, SW137, SW138, SW139, SW140, SW141, SW142, SW143, SW144, SW145, SW146, SW147, SW148, SW149, SW150, SW151, SW152, SW153, SW154, SW155, SW156, SW157, SW158, SW159, SW160, SW161, SW162, SW163, SW164, SW165, SW166, SW167, SW168, SW169, SW170, SW171, SW172, SW173, SW174, SW175, SW176, SW177, SW178, SW179, SW180, SW181, SW182, SW183, SW184, SW185, SW186, SW187, SW188, SW189, SW190, SW191, SW192, SW193, SW194, SW195, SW196, SW197, SW198, SW199, SW200, SW201, SW202, SW203, SW204, SW205, SW206, SW207, SW208, SW209, SW210, SW211, SW212, SW213, SW214, SW215, SW216, SW217, SW218, SW219, SW220, SW221, SW222, SW223, SW224, SW225, SW226, SW227, SW228, SW229, SW230, SW231, SW232, SW233, SW234, SW235, SW236, SW237, SW238, SW239, SW240, SW241, SW242, SW243, SW244, SW245, SW246, SW247, SW248, SW249, SW250, SW251, SW252, SW253, SW254, SW255, SW256, SW257, SW258, SW259, SW260, SW261, SW262, SW263, SW264, SW265, SW266, SW267, SW268, SW269, SW270, SW271, SW272, SW273, SW274, SW275, SW276, SW277, SW278, SW279, SW280, SW281, SW282, SW283, SW284, SW285, SW286, SW287, SW288, SW289, SW290, SW291, SW292, SW293, SW294, SW295, SW296, SW297, SW298, SW299, SW300, SW301, SW302, SW303, SW304, SW305, SW306, SW307, SW308, SW309, SW310, SW311, SW312, SW313, SW314, SW315, SW316, SW317, SW318, SW319, SW320, SW321, SW322, SW323, SW324, SW325, SW326, SW327, SW328, SW329, SW330, SW331, SW332, SW333, SW334, SW335, SW336, SW337, SW338, SW339, SW340, SW341, SW342, SW343, SW344, SW345, SW346, SW347, SW348, SW349, SW350, SW351, SW352, SW353, SW354, SW355, SW356, SW357, SW358, SW359, SW360, SW361, SW362, SW363, SW364, SW365, SW366, SW367, SW368, SW369, SW370, SW371, SW372, SW373, SW374, SW375, SW376, SW377, SW378, SW379, SW380, SW381, SW382, SW383, SW384, SW385, SW386, SW387, SW388, SW389, SW390, SW391, SW392, SW393, SW394, SW395, SW396, SW397, SW398, SW399, SW400, SW401, SW402, SW403, SW404, SW405, SW406, SW407, SW408, SW409, SW410, SW411, SW412, SW413, SW414, SW415, SW416, SW417, SW418, SW419, SW420, SW421, SW422, SW423, SW424, SW425, SW426, SW427, SW428, SW429, SW430, SW431, SW432, SW433, SW434, SW435, SW436, SW437, SW438, SW439, SW440, SW441, SW442, SW443, SW444, SW445, SW446, SW447, SW448, SW449, SW450, SW451, SW452, SW453, SW454, SW455, SW456, SW457, SW458, SW459, SW460, SW461, SW462, SW463, SW464, SW465, SW466, SW467, SW468, SW469, SW470, SW471, SW472, SW473, SW474, SW475, SW476, SW477, SW478, SW479, SW480, SW481, SW482, SW483, SW484, SW485, SW486, SW487, SW488, SW489, SW490, SW491, SW492, SW493, SW494, SW495, SW496, SW497, SW498, SW499, SW500, SW501, SW502, SW503, SW504, SW505, SW506, SW507, SW508, SW509, SW510, SW511, SW512, SW513, SW514, SW515, SW516, SW517, SW518, SW519, SW520, SW521, SW522, SW523, SW524, SW525, SW526, SW527, SW528, SW529, SW530, SW531, SW532, SW533, SW534, SW535, SW536, SW537, SW538, SW539, SW540, SW541, SW542, SW543, SW544, SW545, SW546, SW547, SW548, SW549, SW550, SW551, SW552, SW553, SW554, SW555, SW556, SW557, SW558, SW559, SW560, SW561, SW562, SW563, SW564, SW565, SW566, SW567, SW568, SW569, SW570, SW571, SW572, SW573, SW574, SW575, SW576, SW577, SW578, SW579, SW580, SW581, SW582, SW583, SW584, SW585, SW586, SW587, SW588, SW589, SW590, SW591, SW592, SW593, SW594, SW595, SW596, SW597, SW598, SW599, SW600, SW601, SW602, SW603, SW604, SW605, SW606, SW607, SW608, SW609, SW610, SW611, SW612, SW613, SW614, SW615, SW616, SW617, SW618, SW619, SW620, SW621, SW622, SW623, SW624, SW625, SW626, SW627, SW628, SW629, SW630, SW631, SW632, SW633, SW634, SW635, SW636, SW637, SW638, SW639, SW640, SW641, SW642, SW643, SW644, SW645, SW646, SW647, SW648, SW649, SW650, SW651, SW652, SW653, SW654, SW655, SW656, SW657, SW658, SW659, SW660, SW661, SW662, SW663, SW664, SW665, SW666, SW667, SW668, SW669, SW670, SW671, SW672, SW673, SW674, SW675, SW676, SW677, SW678, SW679, SW680, SW681, SW682, SW683, SW684, SW685, SW686, SW687, SW688, SW689, SW690, SW691, SW692, SW693, SW694, SW695, SW696, SW697, SW698, SW699, SW700, SW701, SW702, SW703, SW704, SW705, SW706, SW707, SW708, SW709, SW710, SW711, SW712, SW713, SW714, SW715, SW716, SW717, SW718, SW719, SW720, SW721, SW722, SW723, SW724, SW725, SW726, SW727, SW728, SW729, SW730, SW731, SW732, SW733, SW734, SW735, SW736, SW737, SW738, SW739, SW740, SW741, SW742, SW743, SW744, SW745, SW746, SW747, SW748, SW749, SW750, SW751, SW752, SW753, SW754, SW755, SW756, SW757, SW758, SW759, SW760, SW761, SW762, SW763, SW764, SW765, SW766, SW767, SW768, SW769, SW770, SW771, SW772, SW773, SW774, SW775, SW776, SW777, SW778, SW779, SW780, SW781, SW782, SW783, SW784, SW785, SW786, SW787, SW788, SW789, SW790, SW791, SW792, SW793, SW794, SW795, SW796, SW797, SW798, SW799, SW800, SW801, SW802, SW803, SW804, SW805, SW806, SW807, SW808, SW809, SW810, SW811, SW812, SW813, SW814, SW815, SW816,

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

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 above are, : terminal block, : connector.
6. The setting of the SW2 dip switches differs in the capacity. for the detail, refer to the fig. #1.

5-1. Sound levels

Ceiling suspended

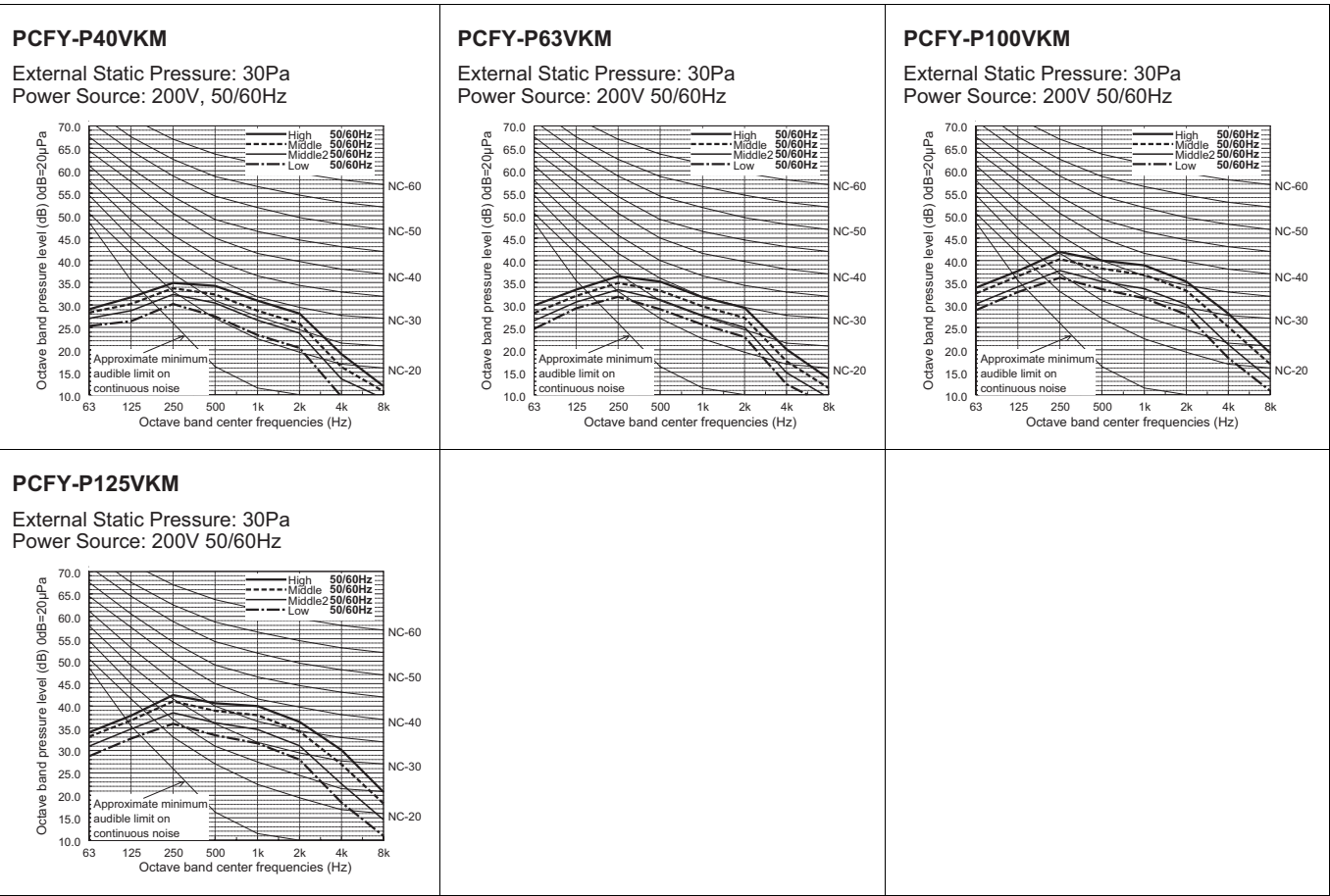


Sound level at anechoic room : Low-Middle2-Middle1-High

Model	Sound level dB (A)
PCFY-P40VKM-E	29-32-34-36
PCFY-P63VKM-E	31-33-35-37
PCFY-P100VKM-E	36-38-41-43
PCFY-P125VKM-E	36-39-42-44

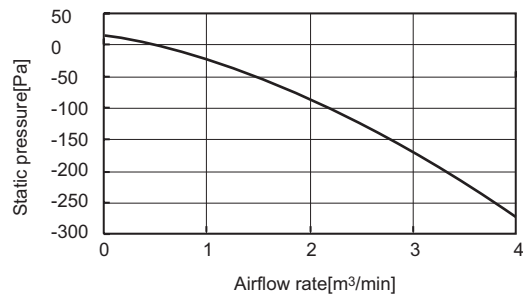
* Measured in anechoic room.

5-2. NC curves

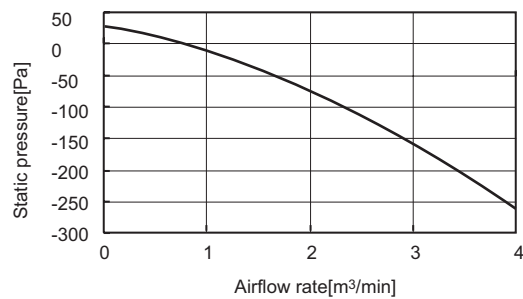


PCFY

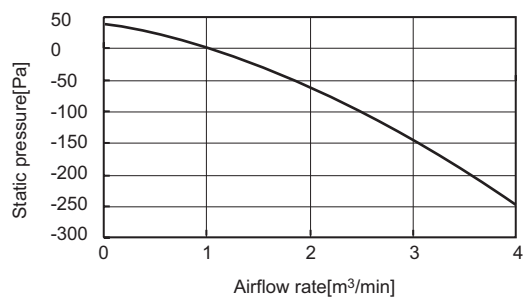
■ PCFY-P40VKM-E



■ PCFY-P63VKM-E



■ PCFY-P100, 125VKM-E



7-1. Temperature distributions

Temperature distributions

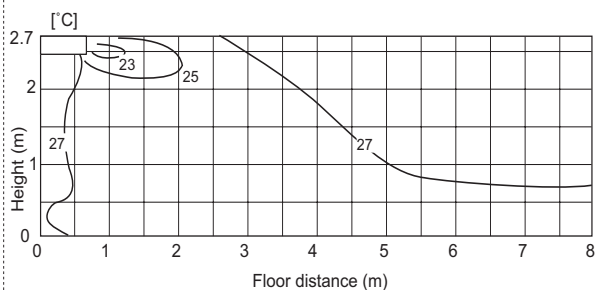
PCFY-P63VKM-E

<Cooling mode>

Flow angle : 10°

Temperature setting : 27°C

High notch

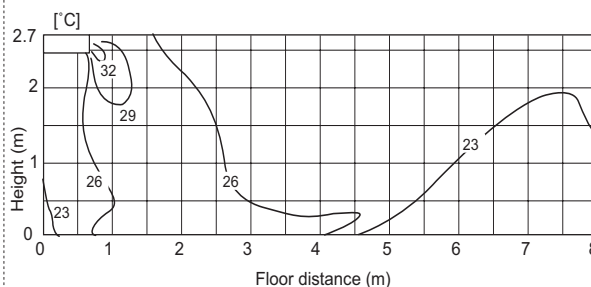


<Heating mode>

Flow angle : 60°

Temperature setting : 20°C

High notch



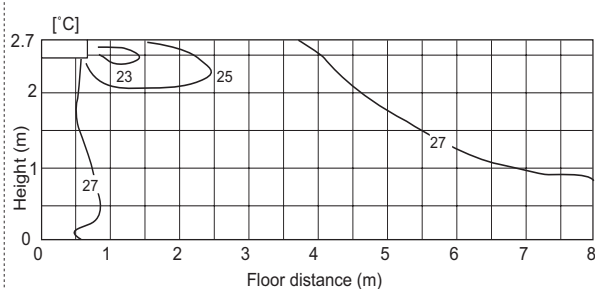
PCFY-P125VKM-E

<Cooling mode>

Flow angle : 10°

Temperature setting : 27°C

High notch

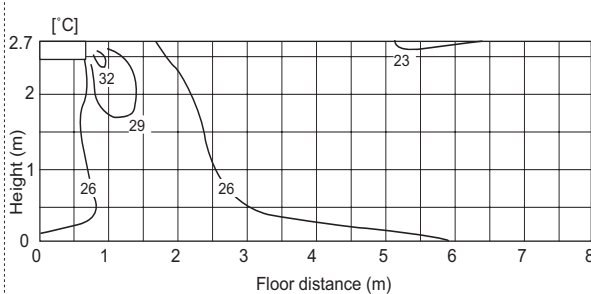


<Heating mode>

Flow angle : 60°

Temperature setting : 20°C

High notch



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.

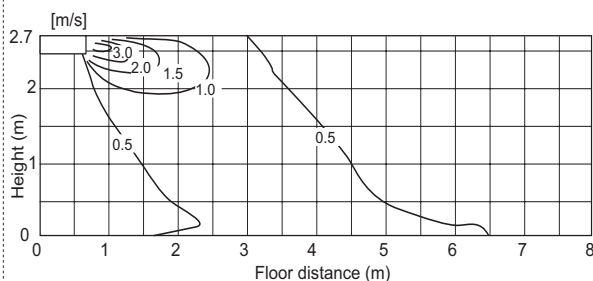
7-2. Airflow distributions

Airflow distributions

PCFY-P63VKM-E

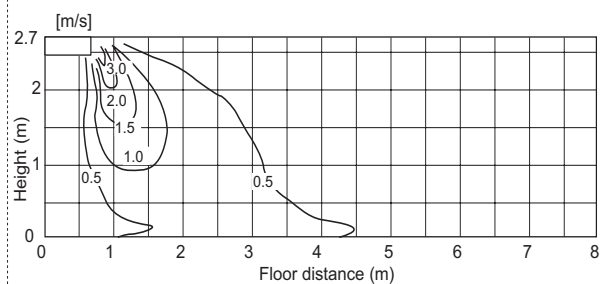
<Cooling mode>

Flow angle : 10°
 Temperature setting : 27°C
 High notch
 Ceiling height : 2.7m



<Heating mode>

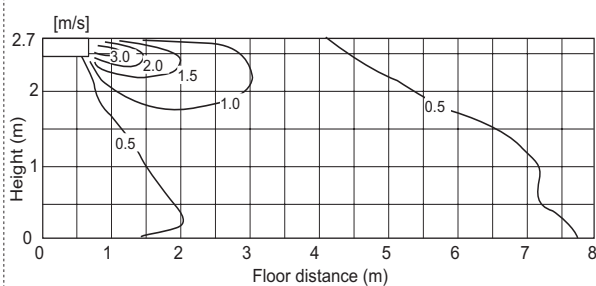
Flow angle : 60°
 Temperature setting : 27°C
 High notch
 Ceiling height : 2.7m



PCFY-P125VKM-E

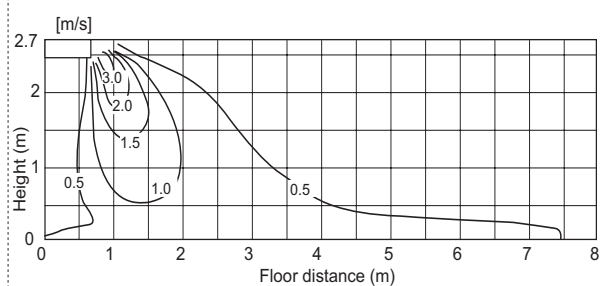
<Fan mode>

Flow angle : 10°
 Temperature setting : 27°C
 High notch
 Ceiling height : 2.7m



<Fan mode>

Flow angle : 60°
 Temperature setting : 27°C
 High notch
 Ceiling height : 2.7m

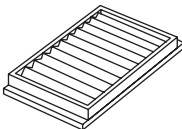


Note : These figures show typical airflow distributions in the conditions above. In the actual installation, they may differ from these figures under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

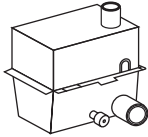
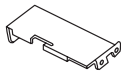
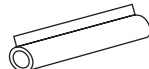
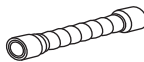
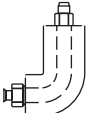
8-1. Optional parts line up for the Indoor unit

	High-efficiency filter	Wireless remote controller kit	Drain pump
PCFY-P40VKM-E	PAC-SH88KF-E	PAR-SL94B-E	PAC-SH83DM-E
PCFY-P63VKM-E	PAC-SH89KF-E	PAR-SL94B-E	PAC-SH84DM-E
PCFY-P100,125VKM-E	PAC-SH90KF-E	PAR-SL94B-E	PAC-SH84DM-E

8-2. High efficiency filter

Material: PP honeycomb Grarimetric method: 70%			
Item	PAC-SH88KF-E	PAC-SH89KF-E	PAC-SH90KF-E
Quantity	2 (Small)	1 (Small), 2 (Large)	2 (Large)
Shape			

8-3. Drain pump

If drain water can not flow out the Indoor unit by gravity and gradient, a Drain-pump for draining is needed. Drain pump PAC-SH-DM-E can pump water up to 600 mm high from the ceiling.					
Item	① Drain lift up mechanism	② Attachment	③ Screws (4×10)	④ VP-20 pipe	⑤ Pipe cover
Quantity	1	1	6	1	1
Shape		 1 Drain lift up mechanism fixture	 For the installation of drain lift up mechanism 1		 For insulation of VP20 pipe4
Item	⑥ Flexible hose	⑦ Fastener	⑧ L-shaped pipe (gas pipe)	⑨ L-shaped pipe (liquid pipe)	⑩ Insulator A
Quantity	1	1	1	1	2
Shape					6t×220×80 (For internal insulation)  For the insulation of L-shaped pipes ⑧ and ⑨ and the refrigerant pipes.
Item	⑪ Insulator B				
Quantity	2				
Shape	3t×250×120 (For external insulation)  For the insulation of L-shaped pipes ⑧ and ⑨ and the refrigerant pipes.				

Detailed installation information should be referred to its Installation Manual (RG79V973H01).

8-4. Wireless remote controller kit

Wireless remote controller receiver is built-in type.					
Item	① Wireless remote controller receiver	② Wireless remote controller	③ Remote control holder	④ "AAA" LR3 alkaline batterise	⑤ 4.1 x 16 wood screw
Quantity	1	1	1	2	2
Item	⑥ Cord rataining clips	⑦ Connection cord fixing seal (12x30 size)			
Quantity	2	1			

Detailed installation information should be referred to its Installation Manual (RG79V995H01).