

PUMY-SP SERIES

INVERTER MULTI



Model			PUMY-SP112VKM2 (-BS)	PUMY-SP125VKM2 (-BS)	PUMY-SP140VKM2 (-BS)	PUMY-SP112YKM2 (-BS)	PUMY-SP125YKM2 (-BS)	PUMY-SP140YKM2 (-BS)	
Power Source			1-phase 220-230-240V 50Hz, 220V 60Hz			3-phase 380-400-415V 50Hz, 380V 60Hz			
Cooling Capacity (Nominal)	*1	kW	12.5	14.0	15.5	12.5	14.0	15.5	
	Power Input	kW	4.46	5.11	5.34	4.46	5.11	5.34	
	Current Input	A	20.69 - 19.79 - 18.97, 20.69	23.71 - 22.68 - 21.73, 23.71	24.77 - 23.70 - 22.71, 24.77	7.14 - 6.78 - 6.54, 7.14	8.18 - 7.77 - 7.49, 8.18	8.55 - 8.12 - 7.83, 8.55	
	EER	kW / kW	2.80	2.74	2.90	2.80	2.74	2.90	
Temp. Range of Cooling	Indoor Temp.	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	
	Outdoor Temp.	*2	D.B. -5.0~52.0°C (23~126°F)	D.B. -5.0~52.0°C (23~126°F)	D.B. -5.0~52.0°C (23~126°F)	D.B. -5.0~52.0°C (23~126°F)	D.B. -5.0~52.0°C (23~126°F)	D.B. -5.0~52.0°C (23~126°F)	
Heating Capacity (Nominal)	*3	kW	14.0	16.0	16.5	14.0	16.0	16.5	
	Power Input	kW	3.66	4.31	4.36	3.66	4.31	4.36	
	Current Input	A	16.98 - 16.24 - 15.57, 16.98	20.00 - 19.13 - 18.33, 20.00	20.23 - 19.35 - 18.54, 20.23	5.86 - 5.57 - 5.36, 5.86	6.90 - 6.55 - 6.32, 6.90	6.98 - 6.63 - 6.39, 6.98	
	COP	kW / kW	3.83	3.71	3.78	3.83	3.71	3.78	
Temp. Range Of Heating	Indoor Temp.	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	
	Outdoor Temp.	W.B.	-20.0~15.0°C (-4~59°F)	-20.0~15.0°C (-4~59°F)	-20.0~15.0°C (-4~59°F)	-20.0~15.0°C (-4~59°F)	-20.0~15.0°C (-4~59°F)	-20.0~15.0°C (-4~59°F)	
Indoor Unit Connectable	Total Capacity		50~130 % of outdoor unit capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	
	Model / Quantity		City Multi*4 Branch Box*5	10 -140/12 15 - 100 / 8	10 - 140 / 12 15 - 100 / 8	10 - 140 / 12 15 - 100 / 8	10 - 140 / 12 15 - 100 / 8	10 - 140 / 12 15 - 100 / 8	
	Mixed System	Branch Box 1 unit	City Multi	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	
			Branch Box 2 units	Branch Box*5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5
				City Multi	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3
		Branch Box*5	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8		
Sound Pressure Level (Measured In Anechoic Room)		dB <A>	52/54	53/56	54/56	52/54	53/56	54/56	
Sound Power Level (Measured In Anechoic Room)		dB <A>	72/74	73/76	74/76	72/74	73/76	74/76	
Refrigerant Piping Diameter	Liquid Pipe	mm (in.)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
	Gas Pipe	mm (in.)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
Fan	Type x Quantity		Propeller Fan x 1	Propeller Fan x 1	Propeller Fan x 1	Propeller Fan x 1	Propeller Fan x 1	Propeller Fan x 1	
	Air Flow Rate	m³/min	77	83	83	77	83	83	
		L/s	1,283	1,383	1,383	1,283	1,383	1,383	
		cfm	2,719	2,931	2,931	2,719	2,931	2,931	
	Motor Output		kW	0.20 x 1	0.20 x 1	0.20 x 1	0.20 x 1	0.20 x 1	
External Static Press.			0Pa / 30Pa*6	0Pa / 30Pa*6	0Pa / 30Pa*6	0Pa / 30Pa*6	0Pa / 30Pa*6	0Pa / 30Pa*6	
Compressor	Type x Quantity		Twin rotary hermetic compressor x 1						
	Starting Method		Inverter						
	Motor Output		kW	3.9	3.9	4.2	3.9	3.8	4.1
External dimension H*W*D		mm	981 x 1,050 x 330 (+40)						
		in.	38-5/8 x 41-3/8 x 13 (+1-37/64)						
Net Weight		kg (lbs)	93 (205)*7			94 (207)*8			

*1,*3 Nominal conditions

	Indoor	Outdoor	Piping Length	Level Difference	External Static Press. (Outdoor Unit)
Cooling	27°C DB / 19°C WB	35°C	7.5m (24 - 9 / 16ft.)	0m (0ft)	0 Pa
Heating	20°C DB	7°C DB / 6°C WB	7.5m (24 - 9 / 16ft.)	0m (0ft)	0 Pa

*2 10 to 52°C; In case of connecting PKFY-P10/15/20/25/32VLM, PFFY-P20/P25/P32VKM, PFFY-P20/25/32VCM, PFFY-P20/P25/P32VLE(R)M indoor unit and M series indoor unit with connection kit and M series, S series, and P series type indoor unit with branch box.

*4 It is possible to connect 1 Fresh Air type indoor unit to 1 outdoor unit. (1:1 system)

*5 At least 2 indoor units must be connected when using branch box.

*6 0 Pa as initial setting

*7 94 (207), for PUMY-SP112/125/140YKM2-BS

*8 95 (209), for PUMY-SP112/125/140YKM2-BS

Type		Branch Box	
Model Name		PAC-MK54BC	PAC-MK34BC
Connectable Number of Indoor Units		Maximum 5	Maximum 3
Power Supply (from outdoor unit)		~ / N, 220 / 230 / 240 V, 50 Hz, ~ / N, 220 / 230 V, 60 Hz	
Input	kW	0.003	
Running Current	A	0.05 (Max. 6)	
Dimensions	H*W*D	mm 170 x 450 x 280	
Weight	kg	7.4	6.7
Piping Connection (Flare)	Branch [Indoor Side]	Liquid mm	ø6.35 x 5
		Gas mm	ø9.52 x 4, ø12.7 x 1
	Main [Outdoor Side]	Liquid mm	ø9.52
		Gas mm	ø15.88

* The piping connection size differs according to the type and capacity of outdoor/indoor units.

Match the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of branch box does not match

the piping connection size of outdoor/indoor unit, use optional different-diameter (deformed) joints to the branch box side.

(Connect deformed joint directly to the branch box side.)

<Branch box compatible table>

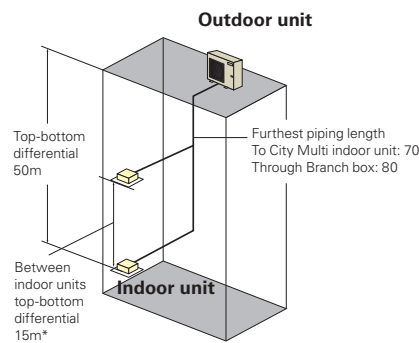
		Branch box			
Outdoor unit		PAC-MK31/51BC(B)	PAC-MK32/52BC(B)	PAC-MK33/53BC(B)	PAC-MK33/54BC
Outdoor unit 1fan	PUMY-SP112/125/140V/YKM2(-BS)	N/A	N/A	✓*	✓*
Outdoor unit 2fan	PUMY-P112/125/140VKM7(-BS)	N/A	N/A	✓	✓
	PUMY-P112/125/140YKM7(-BS)	N/A	N/A	✓	✓
	PUMY-P200YKM4(-BS)	N/A	N/A	✓*	✓*
	PUMY-P250/300YBM3(-BS)	N/A	N/A	✓*	✓*

*ecodan is NG

[SP112~140V/YKM2(-BS)]

Refrigerant Piping Lengths	Maximum meters
Total length	120
Maximum allowable length	To City Multi indoor unit: 70
	Through Branch box: 80

Vertical differentials between units	Maximum meters
Indoor/outdoor (outdoor higher)	50
Indoor/outdoor (outdoor lower)	30
Indoor/indoor	15*



*In case of branch box connection: 12m