PUMY-SM SERIES

INVERTER MULTI



Model				PUMY-SM112VKM	PUMY-SM125VKM	PUMY-SM140VKM	PUMY-SM112YKM	PUMY-SM125YKM	PUMY-SM140YKM
Power source				1-phase 220-230-240V 50Hz, 220V 60Hz			3-phase 380-400-415V 50Hz, 380V 60Hz		
Cooling Capacity (Nominal)			kW	12.5	14.0	15.5	12.5	14.0	15.5
	Power Input		kW	3.32	4.19	4.81	3.32	4.19	4.81
	Current Input		A	15.40 - 14.73 - 14.12 / 15.40	19.43 - 18.59 - 17.81 / 19.43	22.45 - 21.47 - 20.58 / 22.45	5.31 - 5.04 - 4.86 / 5.31	6.70 - 6.37 - 6.14 / 6.70	7.74 - 7.35 - 7.09 / 7.74
	EER		kW / kW	3.76	3.34	3.22	3.76	3.34	3.22
Temp. Range of Cooling	Indoor Temp.*1		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*3		D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating Capacity (Nominal)			kW	14.0	16.0	17.5	14.0	16.0	17.5
	Power Input		kW	3.33	3.74	4.16	3.33	3.74	4.16
	Current Input		A	15.45 - 14.77 - 14.16 / 15.45	17.30 - 16.55 - 15.86 / 17.30	19.25 - 18.41 - 17.64 / 19.25	5.33 - 5.06 - 4.88 / 5.33	5.97 - 5.67 - 5.46 / 5.97	6.64 - 6.31 - 6.08 / 6.64
	COP		kW / kW	4.20	4.28	4.21	4.20	4.28	4.21
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	50~130 % of outdoor unit capacity
	Model / Quantity		City Multi	10-140/12	10 - 140 / 12	10 - 140 / 12	10 - 140 / 12	10 - 140 / 12	10 - 140 / 12
			Branch Box	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8
		Branch box 1unit	City Multi	10 - 140 / 3 or 5*4	10 - 140 / 3 or 5*4	10 - 140 / 3 or 5*4	10 - 140 / 3 or 5*4	10 - 140 / 3 or 5*4	10 - 140 / 3 or 5*4
			Branch Box	15 - 100 / 4 or 6*5	15 - 100 / 4 or 6*5	15 - 100 / 4 or 6*5	15 - 100 / 4 or 6*5	15 - 100 / 4 or 6*5	15 - 100 / 4 or 6*5
		Branch box 2unit	City Multi	10 - 140 / 2 or 3*6	10 - 140 / 2 or 3*6	10 - 140 / 2 or 3*6	10 - 140 / 2 or 3*6	10 - 140 / 2 or 3*6	10 - 140 / 2 or 3*6
			Branch Box	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8
Sound Presuure Level (Cooling/Heating)			dB <A>	52/54	53/56	54/56	52/54	53/56	54/56
Sound Power Level (Cooling/Heating)			dB <A>	72/74	74/76	74/76	72/74	74/76	74/76
Refrigerant Piping Diameter	Liquid Pipe		mm (in.)	9.52 Flare	9.52 Flare	9.52 Flare	9.52 Flare	9.52 Flare	9.52 Flare
	Gas Pipe		mm (in.)	15.88 Flare	15.88 Flare	15.88 Flare	15.88 Flare	15.88 Flare	15.88 Flare
Fan	Type × Quantity			Propeller Fan × 1	Propeller Fan × 1	Propeller Fan × 1	Propeller Fan × 1	Propeller Fan × 1	Propeller Fan × 1
	Air Flow Rate		m^3/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 × 1	0.20 × 1	0.20 × 1	0.20 × 1	0.20 × 1	0.20 × 1
	External Static Press.			0Pa / 30Pa*7	0Pa / 30Pa*7	0Pa / 30Pa*7	0Pa / 30Pa*7	0Pa / 30Pa*7	0Pa / 30Pa*7
Compressor	Type × Quantity			Twin rotary hermetic compressor × 1					
	Starting Method			Inverter					
	Motor Output		kW	2.3	2.6	3.0	2.3	2.6	3.0
External Dimension H*W*D			mm	981 × 1,050 × 330 (+40)					
			in.	38-5/8 × 41-3/8 × 13 (+1-37/64)					
Net Weight			kg (lbs)	95 (209)*8			97(214) *9		
Pre-Charged Quantity	Weight		kg	3.0	3.0	3.0	3.0	3.0	3.0
	CO_2 equivalent		t	2.03	2.03	2.03	2.03	2.03	2.03
Max System Quantity	Weight		kg	7.5	7.5	7.5	7.5	7.5	7.5
	CO_2 equivalent		t	5.06	5.06	5.06	5.06	5.06	5.06

*1 15 to 23°C when using branch box(M/S/P series)
*2 10 to 52°C: incase of connecting PKFY-MS*VKM, PKFY-MS*VLM indoor unit and M series, S series and P series type indoor unit with branch box.
*3 -15 to 52:, when using an optional air protect guide [PAC-SH95AG-E]. However, this condition does not apply to the indoor unit listed in*1.
*4 When connected branch box is PAC-MMK60BC, connectable City Multi indoor units are 3; connected branch box is PAC-MMK40BC(B), connectable City Multi indoor units are 5.
*5 When connected branch box is PAC-MMK40BC(B), connectable indoor units via branch box are 4; connected branch box is PAC-MMK60BC, connectable indoor units via branch box are 6.
*6 When connected branch boxes are PAC-MMK40BC(B) and PAC-MMK60BC, connectable City Multi indoor units are 2; connected branch boxes are PAC-MMK40BC(B) and PAC-MMK40BC(B), connectable City Multi indoor units are 3; connected branch boxes are PAC-MMK60BC and PAC-MMK60BC are not allowed.
*7 0 Pa as initial setting
*8 96 (212), for PUMY-SM112/125/140VKM-BS
*9 98 (216), for PUMY-SM112/125/140YKM-BS

Indoor unit connectable table

Model		PUMY-SM112V(Y)KM	PUMY-SM125V(Y)KM	PUMY-SM140V(Y)KM
CM Indoor Only		12	12	12
Branch Box Only		8	8	8
Mix System	CM Indoor	3	3	3
Branch Box 1unit	Branch Box	6	6	6
PAC-MMK60BC		9	9	9
Mix System	CM Indoor	5	5	5
Branch Box 2unit	Branch Box	4	4	4
PAC-MMK40BC(B)		9	9	9
Mix System	CM Indoor	2	2	2
Branch Box 2unit	Branch Box	8	8	8
PAC-MMK60BC + PAC-MMK40BC(B)		10	10	10
Mix System	CM Indoor	3	3	3
Branch Box 2unit	Branch Box	8	8	8
PAC-MMK40BC(B) 2unit		11	11	11

			Maximum Meters			
			Only City Multi*1 Indoor Unit	Only Branch Box Connection	Mixed System (City Multi*1 Indoor Unit + Branch Box)	
					City Multi*1 Indoor Unit	Via Branch Box
SM112/125/140	Refrigerant Piping Length	Total Length	120	120	120	
		Maximum Allowable Length	70	80	70	80
		Farthest Indoor From First Branch	50	-	50	-
		Piping Length Between Outdoor Unit and Branch Boxes	-	55	-	55
	Vertical Differentials Between Units	Indoor/Outdoor (Outdoor higher)	50	40	50	
		Indoor/Outdoor (Outdoor Lower)	40	40	40	
		Indoor/Indoor	15	12	12	