

1. SPECIFICATIONS

S-Series

PUMY-SM-VKM, YKM

Model			PUMY-SM80VKM-A(-BS)			PUMY-SM112VKM-A(-BS)			PUMY-SM125VKM-A(-BS)			PUMY-SM140VKM-A(-BS)				
Power source			1-phase 220-230-240 V, 50 Hz; 1-phase 220 V, 60 Hz													
Cooling capacity (Nominal) ¹		kW	9.0			12.5			14.0			15.5				
		kcal/h	7,740			10,750			12,040			13,330				
		Btu/h	30,708			42,650			47,768			52,886				
	Power input	kW	1.61			2.67			2.99			3.75				
	Current input	A	7.47	7.15	6.85	12.39	11.85	11.36	13.87	13.27	12.72	17.40	16.64	15.95		
	EER	kW/kW	5.59			4.68			4.68			4.13				
Temp. range of cooling	Indoor	W.B.	15 to 24°C ⁻⁷													
	Outdoor	D.B.	-5 to 52°C ⁻³													
Heating capacity (Nominal) ²		kW	10.0			14.0			16.0			16.5				
		kcal/h	8,600			12,040			13,760			14,190				
		Btu/h	34,120			47,768			54,592			56,298				
	Power input	kW	1.94			3.33			3.73			3.85				
	Current input	A	9.00	8.61	8.25	14.29	13.67	13.10	17.54	16.78	16.08	17.86	17.09	16.37		
	COP	kW/kW	5.15			4.54			4.23			4.28				
Temp. range of heating	Indoor	D.B.	17 to 28°C ⁻⁸													
	Outdoor	W.B.	-20 to 15°C													
Indoor unit connectable	Total capacity	50 to 130% of outdoor unit capacity														
	Model/ Quantity	CITY MULTI		MS10 - MS140, 9						MS10 - MS140, 12						
		Branch box ⁴		M/S/P15 - M/S/P100, 7						M/S/P15 - M/S/P100, 8						
		Mixed system	4-branch box 1 unit	CITY MULTI							MS10 - MS140, 5					
				Branch box							M/S/P15 - M/S/P100, 4					
			6-branch box 1 unit	CITY MULTI							MS10 - MS140, 3					
				Branch box							M/S/P15 - M/S/P100, 6					
			4-branch box 2 unit	CITY MULTI							MS10 - MS140, 3					
				Branch box	M/S/P15 - M/S/P100, 7							M/S/P15 - M/S/P100, 8				
4-branch box 1 unit + 6-branch box 1 unit	CITY MULTI							MS10 - MS140, 2								
	Branch box	M/S/P15 - M/S/P100, 7									M/S/P15 - M/S/P100, 8					
Sound pressure level (SPL) (measured in anechoic room)	dB	Cooling	51			52			53			54				
		Heating	54			54			56			56				
Sound power level (PWL) (measured in anechoic room)	dB	Cooling	71			72			73			74				
		Heating	74			74			76			76				
Refrigerant piping diameter	Liquid pipe	mm (in)	9.52 (3/8)													
	Gas pipe	mm (in)	15.88 (5/8)													
Fan	Type × Quantity		Propeller Fan x 1													
	Airflow rate	m ³ /min	71/75			77/75			81/83			81/83				
		L/s	1,183/1,250			1,283/1,250			1,350/1,383			1,350/1,383				
		cfm	2,507/2,648			2,719/2,648			2,860/2,931			2,860/2,931				
	Control, Driving mechanism		DC control													
	Motor output	kW	0.20 × 1													
External static press.		0 Pa/30 Pa ⁵														
Compressor	Type × Quantity		Twin rotary hermetic compressor x 1													
	Manufacturer		Mitsubishi Electric Corporation													
	Starting method		Inverter													
	Capacity control	%	Cooling	29 to 100			27 to 100			24 to 100			20 to 100			
			Heating	18 to 100			16 to 100			15 to 100			14 to 100			
	Motor output	kW	2.2			3.2			3.6			3.7				
	Case heater	kW	0 Pa/30 Pa ⁵													
Lubricant		FW68CA (1.4 liter)														
External finish		Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1														
External dimension		mm	981 × 1,050 × 330 (+40)													
H × W × D		in	38-5/8 × 41-3/8 × 13 (+1-37/64)													
Protection devices	High pressure protection		High pressure switch													
	Inverter circuit (COMP./FAN)		Overcurrent detection, Overheat detection (Heat sink thermistor)													
	Compressor		Compressor thermistor, Overcurrent detection													
	Fan motor		Overheating, Voltage protection,													
Refrigerant	Type × original charge		R32 3.0 kg													
	Control		Linear expansion valve													
Net weight	kg (lb)	94 (208) ⁶														
Heat exchanger		Cross Fin and Copper tube														
HIC circuit (HIC: Heat Inter-Changer)		HIC circuit														
Defrosting method		Reversed refrigerant circuit														
Standard attachment	Document		Installation Manual													
	Accessory		Grounded lead wire, Muffler, Joint pipe-L													
Optional parts		Joint: CMY-Y62-G-E, Header: CMY-Y64/68-G-E														

Remarks

- Nominal cooling conditions:
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]
- Nominal heating conditions:
Indoor: 20°C D.B. [68°F D.B.]
Outdoor: 7°C DB/6°C W.B. [45°F D.B./43°F W.B.]
Pipe length: 7.5 m [24-9/16 ft]
Level difference: 0 m [0 ft]
- 15 to 52°C D.B. [50 to 126°F D.B.] when using an optional air protect guide [PAC-SH95AG-E]
10 to 52°C D.B. when the following indoor units are connected: M/S/P series type indoor unit
15 to 52°C D.B. when the following indoor units are connected: PKFY*VLM or PKFY*VKM
-5 to 46°C D.B. when the following indoor units are connected: PLFY-EMS*VHM
- At least two indoor units must be connected when using branch box.
- It is possible to set the external static pressure to 30 Pa by Dip Switch.
- 95 (210), for PUMY-SM80/112/125/140VKM-A-BS.TH
- 15 to 23°C W.B. [59 to 73°F W.B.] when using branch box (M/S/P series)
- 20 to 27°C D.B. [68 to 81°F W.B.] when using branch box (M/S/P series)

Notes:

- Nominal conditions *1, *2 are subject to ISO 15042.
- Due to continuing improvement, above specifications are subject to change without notice.
- See the following for unit conversion: kcal/h = kW × 860, Btu/h = kW × 3,412, cfm = m³/min × 35.31, lb = kg/0.4536
- Above specification data is subject to rounding variation.