

1. SPECIFICATIONS

S-Series

PUMY-SP-VKMD2-A(-BS)

Model		PUMY-SP80VKMD2-A(-BS)				PUMY-SP112VKMD2-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				
	*1 kcal/h	7,700				10,800				
	*1 Btu/h	30,700				42,700				
	Power input kW	2.11				3.10				
	Current input A	9.79-9.36-8.97				14.38-13.75-13.18				
Temp. range of cooling	COP kW/kW	4.27				4.03				
	Indoor W.B.	15 to 24°C (59 to 75°F)								
Heating capacity (Nominal)	Outdoor D.B.	-5 to 52°C *3,*4 (23 to 126°F)								
	*2 kW	10.0				14.0				
	*2 kcal/h	8,600				12,000				
	*2 Btu/h	34,100				47,800				
	Power input kW	2.27				3.17				
Temp. range of heating	Current input A	10.53-10.07-9.65				14.70-14.06-13.48				
	COP kW/kW	4.41				4.42				
Indoor unit connectable	Indoor D.B.	15 to 27°C (59 to 81°F)								
	Outdoor W.B.	-20 to 15°C (-4 to 59°F)								
Total capacity	50 to 130% of outdoor unit capacity									
	Model/ Quantity	CITY MULTI				P10-P140/12				
	Branch box	P10-P100/9				P15-P100/8				
	Mixed system	Branch box	CITY MULTI	P10-P100	5	4	3	P10-P140	5	
	1 unit	Branch box	CITY MULTI	P15-P100	3	4	5	P15-P100	5	
	2 units	Branch box	CITY MULTI	P10-P100	3	2	1	P10-P140	3	
Sound pressure level (measured in anechoic room)	Branch box	P15-P100	5	6	7	P15-P100	8			
	dB <A>		51/54				52/54			
Refrigerant piping diameter	Liquid pipe mm (inch)	9.52 (3/8) Flare								
	Gas pipe mm (inch)	15.88 (5/8) Flare								
Fan	Type × Quantity	Propeller Fan × 1								
	Airflow rate	m ³ /min	75/75				77/75			
		L/s	1250/1250				1283/1250			
		cfm	2649/2649				2719/2649			
	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 × 1								
	Manufacturer	Mitsubishi Electric Corporation								
	Starting method	Inverter								
	Capacity control %	Cooling 29 to 100				Cooling 26 to 100				
	Motor output kW	Heating 24 to 100				Heating 20 to 100				
	Case heater kW	1.5				2.2				
Lubricant	0									
External finish	FV50S (1.4liter)									
External dimension H × W × D	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1									
	mm	981 × 1,050 × 330 (+25)								
Protection devices	inch	38-5/8 × 41-3/8 × 13 (+1)								
	High pressure protection	High pressure Switch								
	Inverter circuit (COMP./FAN)	Overcurrent detection, Overheat detection(Heat sink thermistor)								
	Compressor	Compressor thermistor, Overcurrent detection, Compressor protector								
Refrigerant	Fan motor	Overheating, Voltage protection								
	Type × original charge	R410A × 3.5 kg (8 lb)								
Net weight	Control	Linear expansion valve								
	kg (lb)	93 (205) ⁶								
Heat exchanger	Cross Fin and Copper tube									
HIC circuit (HIC: Heat Inter-Changer)	Double pipe heat exchanger									
Defrosting method	Reversed refrigerant circuit									
Standard attachment	Document	Installation Manual								
	Accessory	Grounded lead wire								
Optional parts	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E									
Remarks	*1 Nominal cooling conditions		*2 Nominal heating conditions						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.]						kcal/h = kW × 860	
	Outdoor:	35°C D.B. [95°F D.B.]	7°C DB/6°C W.B. [45°F D.B./43°F W.B.]						Btu/h = kW × 3,412	
	Pipe length:	7.5 m [24-9/16 ft]	7.5 m [24-9/16 ft]						cfm = m ³ /min × 35.31	
	Level difference:	0 m [0 ft]	0 m [0 ft]						lb = kg/0.4536	
*3 10 to 52°C(D.B.): When connecting following models such as PKFY-P15/20/25VBM, PEFY-P15/20/25/32/40VMX(L)-E(1), PKFY-P10/15/20/25/32VLM, PFFY-P20/25/32VLE(R)M(M), PFFY-P20/25/32VKM, and M series, S series, and P series type indoor unit.										
*4 -15 to 52°C(D.B.): When using an optional air protect guide [PAC-SH95AG-E]. However, this condition does not apply to the indoor unit listed in *3.										
*5 0 Pa which is configured at the factory										
*6 94 (207), for PUMY-SP80/112VKMD2-BS										
Notes:1. Nominal conditions *1, *2 are subject to ISO 15042. 2. Due to continuing improvement, above specifications may be subject to change without notice.										
Above specification data is subject to rounding variation.										

1. SPECIFICATIONS

S-Series

PUMY-SP-VKMD2-A(-BS)

Model		PUMY-SP125VKMD2-A(-BS)		PUMY-SP140VKMD2-A(-BS)			
Power source		1-phase 220-230-240 V, 50 Hz; 1-phase 220 V, 60 Hz					
Cooling capacity (Nominal)	*1 kW	14.0		15.5			
	*1 kcal/h	12,000		13,300			
	*1 Btu/h	47,800		52,900			
	Power input kW	3.84		4.31			
Current input	A		17.81-17.04-16.33		19.99-19.12-18.32		
COP	kW/kW		3.65		3.60		
Temp. range of cooling	Indoor	W.B.					
	Outdoor	D.B.				15 to 24°C (59 to 75°F) -5 to 52°C *3,*4 (23 to 126°F)	
Heating capacity (Nominal)	*2 kW	16.0		16.5			
	*2 kcal/h	13,800		14,200			
	*2 Btu/h	54,600		56,300			
	Power input kW	3.90		4.02			
Current input	A		18.09-17.30-16.58		18.65-17.83-17.09		
COP	kW/kW		4.10		4.10		
Temp. range of heating	Indoor	D.B.				15 to 27°C (59 to 81°F)	
	Outdoor	W.B.				-20 to 15°C (-4 to 59°F)	
Indoor unit connectable	Total capacity		50 to 130% of outdoor unit capacity				
	Model/ Quantity		P10-P140/12		P10-P140/12		
	Branch box		P15-P100/8		P15-P100/8		
	Mixed system	Branch box	CITY MULTI	P10-P140	5	P10-P140	5
	1 unit	Branch box	P15-P100	5	P15-P100	5	
	Branch box	CITY MULTI	P10-P140	3	P10-P140	3	
	2 units	Branch box	P15-P100	8	P15-P100	8	
Sound pressure level (measured in anechoic room)	dB <A>		53/56		54/56		
Refrigerant piping diameter	Liquid pipe	mm (inch)		9.52 (3/8) Flare			
	Gas pipe	mm (inch)		15.88 (5/8) Flare			
Fan	Type × Quantity		Propeller Fan × 1				
	Airflow rate	m ³ /min	81/83		81/83		
		L/s	1350/1383		1350/1383		
		cfm	2861/2931		2861/2931		
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 × 1				
	Manufacturer		Mitsubishi Electric Corporation				
	Starting method		Inverter				
	Capacity control	%	Cooling 24 to 100 Heating 18 to 100		Cooling 21 to 100 Heating 17 to 100		
	Motor output	kW	2.5		3.1		
	Case heater	kW	0				
Lubricant	FV50S (1.4litter)						
External finish	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1						
External dimension H × W × D	mm		981 × 1,050 × 330 (+25)				
	inch		38-5/8 × 41-3/8 × 13 (+1)				
Protection devices	High pressure protection		High pressure Switch				
	Inverter circuit (COMP./FAN)		Overcurrent detection, Overheat detection(Heat sink thermistor)				
	Compressor		Compressor thermistor, Overcurrent detection, Compressor protector				
	Fan motor		Overheating, Voltage protection				
Refrigerant	Type × original charge		R410A × 3.5 kg (8 lb)				
	Control		Linear expansion valve				
Net weight	kg (lb)		93 (205) ⁶				
Heat exchanger	Cross Fin and Copper tube						
HIC circuit (HIC: Heat Inter-Changer)	Double pipe heat exchanger						
Defrosting method	Reversed refrigerant circuit						
Standard attachment	Document		Installation Manual				
	Accessory		Grounded lead wire				
Optional parts	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E						
Remarks	*1 Nominal cooling conditions		*2 Nominal heating conditions		Unit converter kcal/h = kW × 860 Btu/h = kW × 3,412 cfm = m ³ /min × 35.31 lb = kg/0.4536 Above specification data is subject to rounding variation.		
	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.]				
	Outdoor:	35°C D.B. [95°F D.B.]	7°C DB/6°C W.B. [45°F D.B./43°F W.B.]				
	Pipe length:	7.5 m [24-9/16 ft]	7.5 m [24-9/16 ft]				
	Level difference:	0 m [0 ft]	0 m [0 ft]				
	*3 10 to 52°C(D.B.): When connecting following models such as PKFY-P15/20/25VBM, PEFY-P15/20/25/32/40VMX(L)-E(1), PKFY-P10/15/20/25/32VLM, PFFY-P20/25/32VLE(R)M(M), PFFY-P20/25/32VKM, and M series, S series, and P series type indoor unit.						
	*4 -15 to 52°C(D.B.): When using an optional air protect guide [PAC-SH95AG-E]. However, this condition does not apply to the indoor unit listed in *3.						
	*5 0 Pa which is configured at the factory						
	*6 94 (207), for PUMY-SP125/140VKMD2-BS						
Notes:1. Nominal conditions *1, *2 are subject to ISO 15042.							
2. Due to continuing improvement, above specifications may be subject to change without notice.							