

# Kültéri egység S Széria PUMY-SP VKMD-A(-BS)



## Specifikációk

Model					PUMY-SP80VKMD-A (-BS)	PUMY-SP112VKMD-A (-BS)	PUMY-SP125VKMD-A (-BS)	PUMY-SP140VKMD-A (-BS)
Power source					1-phase 220-230-240 V, 50 Hz	1-phase 220-230-240 V, 50 Hz	1-phase 220-230-240 V, 50 Hz	1-phase 220-230-240 V, 50 Hz
Cooling capacity (Nominal)	*1			kW	9.0	12.5	14.0	15.5
				BTU / h	7,700	42,650	47,768	52,886
	Power input			kW	2.11	3.10	3.84	4.38
	Current input			A	9.36	14.38	17.81	20.32
	EER			kW / kW	4.27	4.03	3.84	4.38
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)
	Outdoor temp. *3 *4			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)
Heating capacity (Nominal)	*2			kW	10.0	14.0	16.0	16.5
				BTU / h	8,600	47,768	54,592	56,298
	Power input			kW	2.27	3.17	3.9	4.02
	Current input			A	10.07	14.70	18.09	18.65
	COP			kW / kW	4.41	4.42	4.10	4.10
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)
	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)
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
	Model / Quantity	City Multi			P10~P100/9	P15~P140/9	P15~P140/10	P15~P140/12
		Branch Box			P22~P80/5	P15~P100/8	P15~P100/8	P15~P100/8
		Mixed System	City Multi		P10~P100	P15~P140/5	P15~P140/5	P15~P140/5
			Branch Box		P22~P100	P15~P100/5	P15~P100/5	P15~P100/5
			City Multi		P10~P100	P15~P140/3 or 2 *5	P15~P140/3	P15~P140/3
			Branch Box		P22~P100	P15~P100/7 or 8 *5	P15~P100/8	P15~P100/8
Sound pressure level (measured in anechoic room)				dB <A>	51/54	52/54	53/56	54/56
Refrigerant piping diameter	Liquid pipe			mm (in.)	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare
	Gas pipe			mm (in.)	15.88 (5/8) Flare	15.88 (5/8) Flare	15.88 (5/8) Flare	15.88 (5/8) Flare
FAN	Type x Quantity				Propeller Fan x 1	Propeller Fan x 1	Propeller Fan x 1	Propeller Fan x 1
	Air flow rate			m³/min	75	77	83	83
				L/s	1,250	1,283	1,383	1,383
				cfm	2,649	2,719	2,931	2,931
	Motor output			kW	0.20	0.20	0.20	0.20
Compressor	Type x Quantity				Twin rotary hermetic compressor x 1	Twin rotary hermetic compressor x 1	Twin rotary hermetic compressor x 1	Twin rotary hermetic compressor x 1
	Starting method				Inverter	Inverter	Inverter	Inverter
	Motor output			kW	2.1	3.1	3.5	3.7
External finish					Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1
External dimension HxWxD				mm	981 x 1,050 x 330 (+25)	981 x 1,050 x 330 (+25)	981 x 1,050 x 330 (+25)	981 x 1,050 x 330 (+25)
				in.	38-5/8 x 41-11/32 x 13 (+1)	38-5/8 x 41-11/32 x 13 (+1)	38-5/8 x 41-11/32 x 13 (+1)	38-5/8 x 41-11/32 x 13 (+1)
Protection devices	High pressure protection				High pressure Switch	High pressure Switch	High pressure Switch	High pressure Switch
	Inverter circuit (COMP./FAN)				Overcurrent detection, Overheat detection (Heatsink thermistor )	Overcurrent detection, Overheat detection (Heatsink thermistor )	Overcurrent detection, Overheat detection (Heatsink thermistor )	Overcurrent detection, Overheat detection (Heatsink thermistor )
	Compressor				Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection
	Fan motor				Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection
Refrigerant	Type x original charge				R410A 3.5kg	R410A 3.5kg	R410A 3.5kg	R410A 3.5kg
Net weight				kg (lbs)	94(207)	94(207)	94(207)	94(207)
Heat exchanger					Cross Fin and Copper Tube	Cross Fin and Copper Tube	Cross Fin and Copper Tube	Cross Fin and Copper Tube
Defrosting method					Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit
Optional parts					Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E Branch box: PAC- MK33/53BC	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E Branch box: PAC- MK33/53BC	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E Branch box: PAC- MK33/53BC	Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E Branch box: PAC- MK33/53BC

### Notes:

\*1,\*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*Nominal condition \*1,\*2 are subject to ISO 15042.

\*Due to continuing improvement, above specification may be subject to change without notice.

\*3 10 to 52°C(D.B.): When connecting following models such as PKFY-P15/20/25VBM, PFFY-P20/25/32VLE(R)M, PFFY-P20/25/32VKM, and M-series, S-series and P-series type indoor unit with branch box, M-series type indoor unit with connection kit.

\*4 -15to52°C(D.B.): When using and optional air protect guide [PAC-SH95AG-E]. However, this condition does not apply to the indoor unit listed in \*3.

\*5 When connecting 7 indoor units via branch box, connectable city multi indoor units are 3; connecting 8 indoor units via branch box, connectable citymulti indoor units are 2.

\*6 At least two indoor units must be connected when using branch box.

\*7 It is possible to set the external static pressure to 30 Pa by Dip Switch.

Outdoor Unit



# Kültéri egység S Széria PUMY-SP YKMD-A(-BS)

## Specifikációk



Model					PUMY-SP80YKMD-A (-BS)	PUMY-SP112YKMD-A (-BS)	PUMY-SP125YKMD-A (-BS)	PUMY-SP140YKMD-A (-BS)	PUMY-P200YKMD-A (-BS)
Power source					3-phase 380-400-415 V, 50 Hz	3-phase 380-400-415 V, 50 Hz	3-phase 380-400-415 V, 50 Hz	3-phase 380-400-415 V, 50 Hz	3-phase 380-400-415 V, 50 Hz
Cooling capacity (Nominal)	*1		kW		9.0	12.5	14.0	15.5	22.4
	*1		BTU / h		7,700	42,650	47,768	52,886	76,400
		Power input	kW		2.11	3.10	3.84	4.38	6.22
		Current input	A		9.36	4.96	6.14	7.00	10.16
		EER	kW / kW		4.27	4.03	3.65	3.54	3.60
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)	
	Outdoor temp. *3 *4	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)	
Heating capacity (Nominal)	*2		kW		10.0	14.0	16.0	16.5	25.0
	*2		BTU / h		8,600	47,768	54,592	56,298	85,300
		Power input	kW		2.27	3.17	3.90	4.02	6.0
		Current input	A		10.07	5.07	6.24	6.43	9.80
		COP	kW / kW		4.41	4.42	4.10	4.10	4.17
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)	
	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)	
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			P10~P100/9	P15~P140/9	P15~P140/10	P15~P140/12	P15~P200/12
		Branch Box			P22~P80/5	P15~P100/8	P15~P100/8	P15~P100/8	P22~P100/8
		Mixed System	Branch box 1 unit *6	City Multi Branch Box	P10~P100	P15~P140/5	P15~P140/5	P15~P140/5	P15~P200/5
				Branch Box	P22~P100	P15~P100/5	P15~P100/5	P15~P100/5	P22~P100/5
			Branch box 2 units *6	City Multi Branch Box	P10~P100	P15~P140/3 or 2 *5	P15~P140/3	P15~P140/3	P15~P200/3
			P22~P100	P15~P100/7 or 8 *5	P15~P100/8	P15~P100/8	P22~P100/8		
Sound pressure level (measured in anechoic room)				dB <A>	51/54	52/54	53/56	54/56	57/61
Refrigerant piping diameter	Liquid pipe		mm (in.)		9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare	9.52(3/8) Flare *8
	Gas pipe		mm (in.)		15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare	15.88(5/8) Flare	19.05(3/4) Flare
FAN	Type x Quantity				Propeller Fan x 1	Propeller Fan x 1	Propeller Fan x 1	Propeller Fan x 1	Propeller Fan x 2
	Air flow rate		m³/min		75	77	83	83	134
			L/s		1,250	1,283	1,383	1,383	2,233
			cfm		2,649	2,719	2,931	2,931	4,732
			kW		0.20	0.20	0.20	0.20	0.20 + 0.20
Compressor	Type x Quantity				Twin rotary hermetic compressor x1	Twin rotary hermetic compressor x1	Twin rotary hermetic compressor x1	Twin rotary hermetic compressor x1	Scroll hermetic compressor x1
	Starting method				Inverter	Inverter	Inverter	Inverter	Inverter
	Motor output		kW		2.1	3.1	3.5	3.7	5.3
External finish					Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1	Galvanized Steel Sheet Munsell No. 3Y 7.8/1.1
External dimension HxWxD				mm	981 x 1,050 x 330 (+25)	981 x 1,050 x 330 (+25)	981 x 1,050 x 330 (+25)	981 x 1,050 x 330 (+25)	1,338 x 1,050 x 330 (+25)
				in.	38-5/8 x 41-11/32 x 13 (+1)	38-5/8 x 41-11/32 x 13 (+1)	38-5/8 x 41-11/32 x 13 (+1)	38-5/8 x 41-11/32 x 13 (+1)	52-11/16 x 41-11/32 x 13 (+1)
Protection devices	High pressure protection				High pressure Switch	High pressure Switch	High pressure Switch	High pressure Switch	High pressure Switch
	Inverter circuit (COMP/FAN)				Overcurrent detection, Overheat detection (Heatsink thermistor )	Overcurrent detection, Overheat detection (Heatsink thermistor )	Overcurrent detection, Overheat detection (Heatsink thermistor )	Overcurrent detection, Overheat detection (Heatsink thermistor )	Overcurrent detection, Overheat detection (Heatsink thermistor )
	Compressor				Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection	Compressor thermistor, Over current detection
	Fan motor				Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection	Overheating, Voltage protection
Refrigerant	Type x original charge				R410A 3.5kg	R410A 3.5kg	R410A 3.5kg	R410A 3.5kg	R410A 7.3kg
Net weight			kg (lbs)		94(207)	94(207)	94(207)	94(207)	139(306)
Heat exchanger					Cross Fin and Copper Tube	Cross Fin and Copper Tube	Cross Fin and Copper Tube	Cross Fin and Copper Tube	Cross Fin and Copper Tube
Defrosting method					Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit	Reversed refrigerant circuit
Optional parts					Joint: CMY-Y62-G-E Header: CMY-Y64/68- G-E Branch box: PAC- MK33/53BC	Joint: CMY-Y62-G-E Header: CMY-Y64/68- G-E Branch box: PAC- MK33/53BC	Joint: CMY-Y62-G-E Header: CMY-Y64/68- G-E Branch box: PAC- MK33/53BC	Joint: CMY-Y62-G-E Header: CMY-Y64/68- G-E Branch box: PAC- MK33/53BC	Joint: CMY-Y62-G-E Header: CMY-Y64/68- G-E Branch box: PAC- MK33/53BC

### Notes:

\*1,\*2 Nominal conditions

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°C DB/19°C WB (81°F DB/66°F WB)	35°C DB(95°F DB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°C DB(68°F DB)	7°C DB/6°C WB(45°F DB/43°F WB)	7.5m (24-9/16ft.)	0m (0ft.)

\*Nominal condition \*1,\*2 are subject to ISO 15042.

\*Due to continuing improvement, above specification may be subject to change without notice.

\*3 10 to 52°C(D.B.): When connecting following models such as PKFY-P15/20/25VBM, PFFY-P20/25/32VLE(R)M, PFFY-P20/25/32VKM, and M-series, S-series and P-series type indoor unit with branch box, M-series type indoor unit with connection kit.

\*4 -15 to 52°C(D.B.): When using optional air protect guide [PAC-SH95AG-E]. However, this condition does not apply to the indoor unit listed in \*3. (Excluding PUMY-P200YKMD-A)

\*5 When connecting 7 indoor units via branch box, connectable city multi indoor units are 3; connecting 8 indoor units via branch box, connectable citymulti indoor units are 2.\*4 -15 to 52°C(D.B.): When using and optional air protect guide [PAC-SH95AG-E]. However, this condition does not apply to the indoor unit listed in \*3. (Excluding PUMY-P200YKMD-A)

\*6 At least two indoor units must be connected when using branch box.

\*7 It is possible to set the external static pressure to 30 Pa by Dip Switch.

\*8 Liquid pipe diameter is 12.7mm when further piping length is longer than 60m, or the farthest length of main pipe between outdoor unit and branch box is longer than 20m in branch box system.