

PUMY-SP SERIES

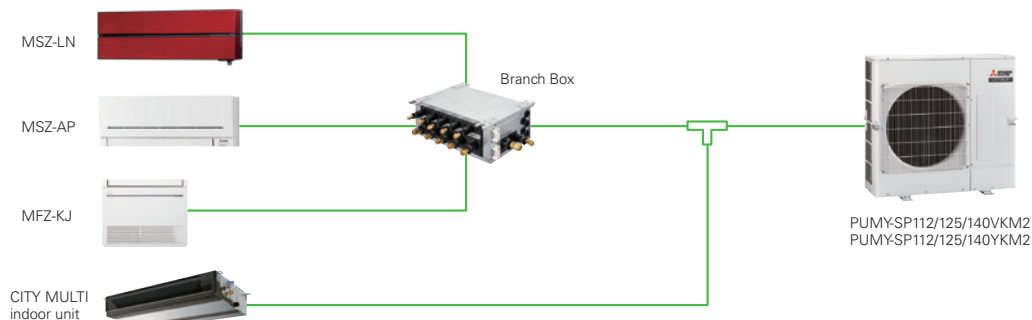
Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.



R410A

PUMY-SP112/125/140VKM2
PUMY-SP112/125/140YKM2

EXAMPLE SYSTEM



Light Weight and Compact Size

Compact design fits into narrow outdoor unit space of condominiums and offices. Light weight design facilitates easy installation and transportation.



PUMY-P112/125/140YKM5(-BS)

Height 1,338mm
Weight 125kg

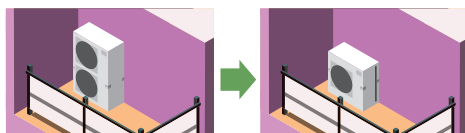


PUMY-SP112/125/140YKM2(-BS)

Height 981mm **27% reduction**
Weight 94kg **25% reduction**

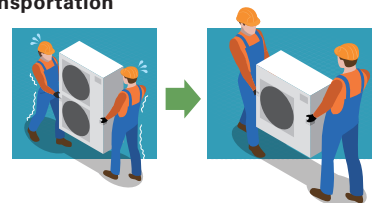
Unobstructive, compact, and easy to hide from view

Conventional 2-fan type outdoor units may spoil the view. Due to its compact size, the new outdoor fan unit can be installed in locations that would have been inappropriate.



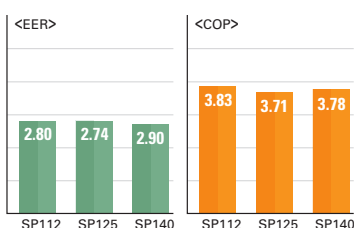
Easy installation and transportation

The reduced weight and height allow for better transportation performance. Carrying and installing become easier.



Industry's Top Energy Efficiency

Even with its compact size and light weight, it has a high EER and COP. Costs are reduced with the industry's best energy saving abilities.



Super Silent Mode*

Noise level can be reduced up to 10dB(A). This allows you to operate the unit even in the night in a residential zone.

*Capacity reduction differs by mode setting.

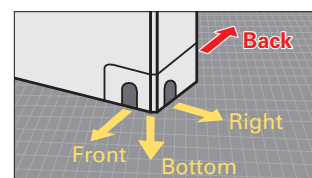
*PAC-SC36NA-E is required to activate Super Silent mode.

Rear Piping is Available

Freedom with layout due to its piping pullout locations in four directions

The in-door unit allows piping from any four directions; front, back, bottom, or right. This enables easier horizontal connection for collective layout.

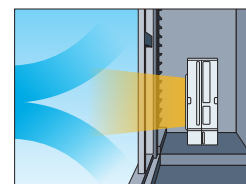
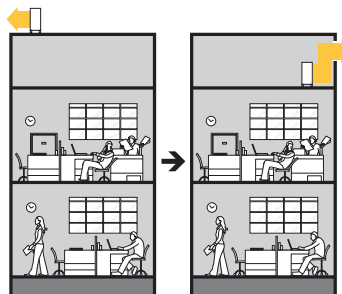
The out-door unit with an expanded piping layout flexibility greatly improves piping workability.



An External Static Pressure of 30Pa

The installation location is flexible, thanks to its 30Pa static pressure. You can install it in locations that you could not before.

An external static pressure of 30Pa allows outdoor unit to be installed on balconies in high-rise building or spaces near louvers.



*Noise level will increase when using this function.

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)	-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)	*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		
	Mixed System	Branch Box 1 unit	City Multi	10 - 140 / 5		10 - 140 / 5	10 - 140 / 5	10 - 140 / 5		
			Branch Box*4	15 - 100 / 5		15 - 100 / 5	15 - 100 / 5	15 - 100 / 5		
			Branch Box 2 units	City Multi	10 - 140 / 3		10 - 140 / 3	10 - 140 / 3	10 - 140 / 3	
				Branch Box*4	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)	
Fan		Gas Pipe		mm (in.)		15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
		Type x Quantity		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
				L/s		1,283	1,383	1,383	1,283	1,383
				cfm		2,719	2,931	2,931	2,719	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-P15/P20/P25VBM, 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		
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		
Weight		kg	170 × 450 × 280		
Piping Connection (Flare)	Branch [Indoor Side]	Liquid	mm	7.4	6.7
		Gas	mm	ø6.35 × 5	ø6.35 × 3
	Main [Outdoor Side]	Liquid	mm	ø9.52 × 4, ø12.7 × 1	ø9.52 × 3
		Gas	mm	ø9.52	ø15.88
		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.)

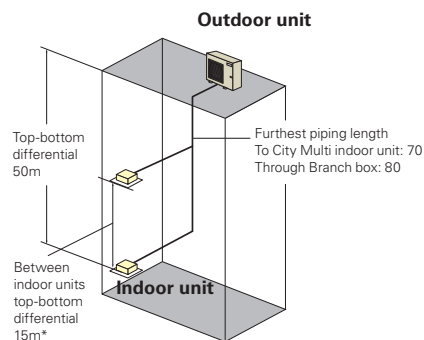
<Branch box compatible table>

Branch box		PAC-MK31/ 51BC(B)	PAC-MK32/ 52BC(B)	PAC-MK33/ 53BC(B)	PAC-MK33/ 54BC
Outdoor unit					
Outdoor unit 1fan	PUMY-SP112/125/140V/YKM2(-BS)	N/A	N/A	✓*	✓*
Outdoor unit 2fan	PUMY-P112/125/140VKM6(-BS)	N/A	N/A	✓	✓
	PUMY-P112/125/140YKM5(-BS)	N/A	N/A	✓	✓
	PUMY-P200YKM3(-BS)	N/A	N/A	✓*	✓*
	PUMY-P250/300YBM2(-BS)	N/A	N/A	✓*	✓*

*ecodan is NG

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

Refrigerant Piping Lengths	Maximum meters	Vertical differentials between units	Maximum meters
Total length	120	Indoor/outdoor (outdoor higher)	50
Maximum allowable length	To City Multi indoor unit: 70	Indoor/outdoor (outdoor lower)	30
	Through Branch box: 80	Indoor/indoor	15*



*In case of branch box connection: 12m