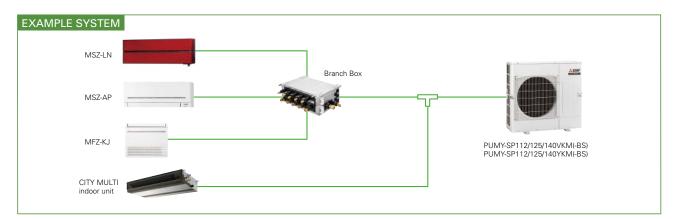
PUMY-SP series

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



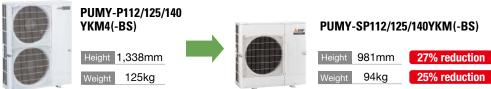
(R410A)

PUMY-SP112/125/140VKM(-BS) PUMY-SP112/125/140YKM(-BS)



Light weight and compact size

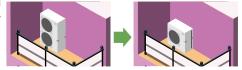
Compact design fits into narrow outdoor unit space of condominiums and offices. Light weight design facilitates easy installation and transportation.



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.



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. * As of sep.2017.Among VRF

outdoor unit of 1fan. (An incompany investigation)



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.

No.

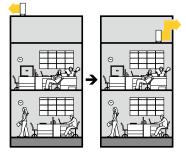
Easy installation and transportation

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

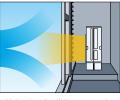


An external static pressure of 30Pa

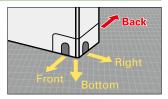
The installation location is flexible, thanks to its 30Pa static pressure. You can install it in locations that you could not before.



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.



PUMY-SP SERIES Interier with PAM www

Model				PUMY-SP112VKM(-BS)	PUMY-SP125VKM(-BS)	PUMY-SP140VKM(-BS)	PUMY-SP112YKM(-BS)	PUMY-SP125YKM(-BS)	PUMY-SP140YKM(-BS)
Power Source				1-phase	220 - 230 - 240V 50Hz / 2	20V 60Hz	3-phase 3	80 - 400 - 415V 50Hz / 3	80V 60Hz
Cooling Capacity		* 1	kW	12.5	14.0	15.5	12.5	14.0	15.5
(nominal)	Power Inpu	t	kW	3.10	3.84	4.70	3.10	3.84	4.70
	Current Inp	ut	A	14.38 - 13.75 - 13.18 / 14.38	17.81 - 17.04 - 16.33 / 17.81	21.80 - 20.85 - 19.88 / 21.80	4.96 - 4.71 - 4.54 / 4.96	6.14 - 5.83 - 5.62 / 6.14	7.52 - 7.14 - 6.88 / 7.52
	EER		kW/kW	4.03	3.65	3.30	4.03	3.65	3.30
Temp. Range	Indoor Tem	p.	W.B.	15.0 - +24.0°C	15.0 - +24.0°C	15.0 - +24.0°C	15.0 - +24.0°C	15.0 - +24.0°C	15.0 - +24.0°C
of Cooling*4	Outdoor Te	mp. *3	D.B.	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C	-5.0 - 52.0°C
Heating Capacity		*2	kW	14.0	16.0	16.5	14.0	16.0	16.5
(nominal)	Power Input		kW	3.17	3.90	4.02	3.17	3.90	4.02
	Current Inp	ut	A	14.70 - 14.06 - 13.48 / 14.70	18.09 - 17.30 - 16.58 / 18.09	18.65 - 17.83 - 17.09 / 18.65	5.07 - 4.82 - 4.64 / 5.07	6.24 - 5.93 - 5.71 / 6.24	6.43 - 6.11 - 5.89 / 6.43
	COP		kW/kW	4.42	4.10	4.10	4.42	4.10	4.10
Temp. Range	Indoor Tem	р.	D.B.	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C	15.0 - 27.0°C
of Heating	Outdoor Te	mp.	W.B.	-20.0 - +15.0°C	-20.0 - +15.0°C	-20.0 - +15.0°C	-20.0 - +15.0°C	-20.0 - +15.0°C	-20.0 - +15.0°C
Indoor Unit	Total Capac	ity		50 to 130% of outdoor unit capacity					
Connectable	Model / Quantity	antity	City Multi	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12
			Branch Box*9	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8
	Mixed	Branch	City Multi	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5
	System Box 1 uni	1 unit	Branch Box	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5
		Branch Box	City Multi	15 - 140 / 3 or 2*7	15 - 140 / 3	15 - 140 / 3	15 - 140 / 3 or 2*7	15 - 140 / 3	15 - 140 / 3
		2 units	Branch Box	15 - 100 / 7 or 8*7	15 - 100 / 8	15 - 100 / 8	15 - 100 / 7 or 8* ⁷	15 - 100 / 8	15 - 100 / 8
Sound Pressure Le (Cooling / Heating			dB <a>	52 / 54	53 / 56	54 / 56	52 / 54	53 / 56	54 / 56
Sound Power Leve	el (Cooling)		dB <a>	72	73	74	72	73	74
Refrigerant Piping	Liquid Pipe		mm	9.52 Flare					
Diameter	Gas Pipe		mm			15.88	Flare		
Fan Type × Quantity			Propeller Fan × 1						
	Air Flow Ra	ite	m³/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 Outp	out	kW						
	External Stat	tic Press.	Pa			0 Pa / 3	30 Pa*8		
Compressor	Type × Qua	ntity				Twin rotary herme	tic compressor × 1		
	Starting Me	ethod				Inve	erter		
	Motor Outp	out	kW	3.1	3.5	3.7	3.1	3.5	3.7
External Dimension	ns (H × W × D)	mm			981×1,050	×330 (+40)		
Net Weight kg (lbs)		93 (205)*5			94 (207)*6				
Pre-Chareged	Weight		kg	3.5	3.5	3.5	3.5	3.5	3.5
Quantity	CO ₂ Equiva	lent	t	7.31	7.31	7.31	7.31	7.31	7.31
Max Added	Weight		kg	9.0	9.0	9.0	9.0	9.0	9.0
Quantity	CO ₂ Equiva		t	18.79	18.79	18.79	18.79	18.79	18.79

*1,*2 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

*3 10 to 52°C; incase of connecting PKFY-P15/P20/P25VBM, PFFY-P20/P25/P32VKM, 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 Up to 11 units when connecting Via 2 branch boxes.
*5 94 (207), for PUMY-SP112/125/140YKM-BS
*6 96 (208), for PUMY-SP112/125/140YKM-BS
*7 When connecting 7 indoor units via branch box, connectable City Multi indoor units are 3; connecting 8 indoor units via branch box, connectable City Multi indoor units are 2.
*8 0 Pa as initial setting
*9 At least 2 indoor units must be connected when using branch box.

Туре				Branch Box				
Model Name				PAC-MK53BC	PAC-MK33BC	PAC-MK53BCB	PAC-MK33BCB	
Connectable Number of Indoor Units				Max. 5	Max. 3	Max. 5	Max. 3	
Power	Source			Outdoor power supply, Branch Box / Outdoor separate power supply				
Supply Outdoor (V/Phase/Hz)				1-phase, 220 - 230 - 240V, 50Hz				
Total Input			kW	0.003				
Operating C	urrent		A		0.0	15		
Dimensions		$H \times W \times D$	mm	170 - 450 - 280				
Weight			kg	7.4	6.7	7.0	6.5	
Piping	Branch	Liquid	mm	6.35 × 5	6.35 × 3	6.35 × 5	6.35 × 3	
[diameter]	[Indoor Side]	Gas	mm	9.52 × 4, 12.7 × 1	9.52 × 3	9.52 × 4, 12.7 × 1	9.52 × 3	
Main Liquid		mm	9.52					
[Outdoor Side] Gas mm		mm	15.88					
Connection Method				Flared Brazed				
Wiring to Indoor Unit				3-wire + Earth wire				
to Outdoor Unit				3-wire + Earth wire				

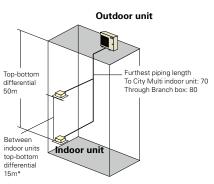
<Branch box compatible table>

Branch box	PAC-MK31/51BC(B)	PAC-MK32/52BC(B)	PAC-MK33/53BC(B)
PUMY-SP112/125/140V/ YKM.TH(-BS)	1	N/A	N/A
PUMY-SP112/125/140V/ YKMR1.TH(-BS)	N/A	N/A	~

[SP112-140V/YKM(-BS)]

Refrigerant Piping Lengths	Maximum meters
Total length	120
Maximum allowable length	To City Multi indoor
	unit: 70
-	Through Branch box: 80
Ū	unit: 70

Vertical differentials between units	Maximum meters
Indoor/outdoor (outdoor higher)	50
Indoor/outdoor (outdoor lower)	30
Indoor/indoor	15*



*In case of branch box connection: 12m