

PUMY-P SERIES

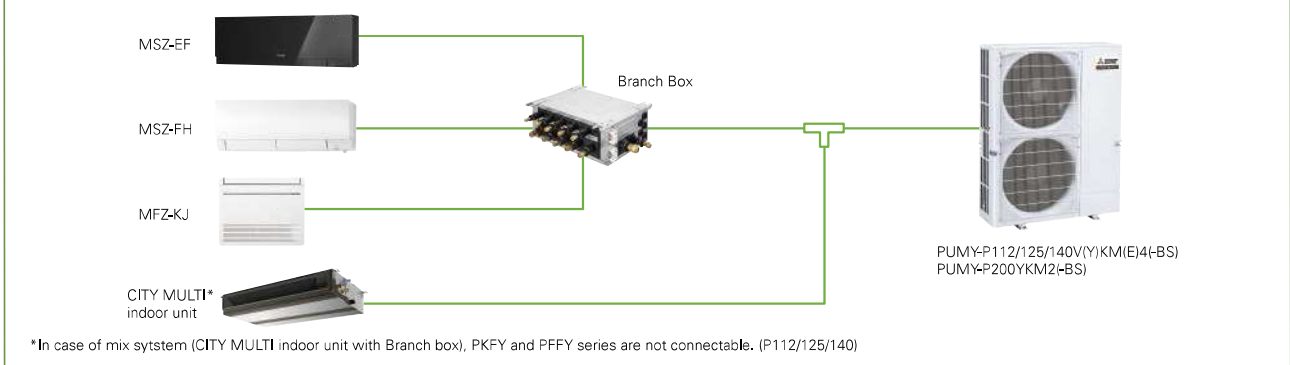
Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.



R410A

PUMY-P112/125/140VKM4(-BS)
PUMY-P112/125/140YKM(E)4(-BS)
PUMY-P200YKM2(-BS)

EXAMPLE SYSTEM

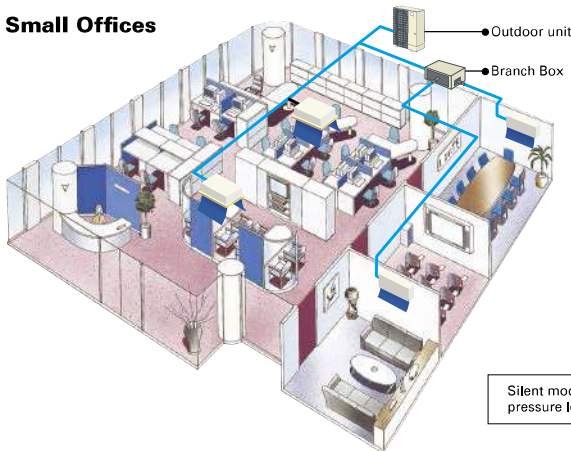


The two-pipe zoned system designed for Heat Pump Operation

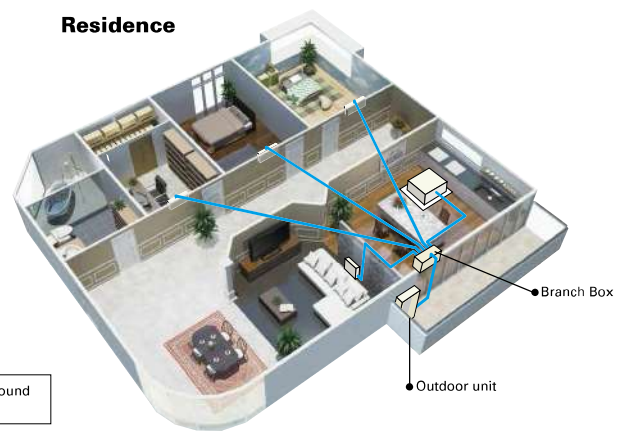
PUMY series make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively.

With a wide range of indoor unit line-up in connection with a flexible piping system, PUMY series can be configured for all applications. Up to 12 indoor units can be connected with up to 130% connected capacity to maximize engineer's design options. This feature allows easy air conditioning in each area with convenient individual controllers.

Small Offices



Residence



		Maximum Meters			
		Only City Multi* Indoor Unit	Only Branch Box Connection	Mixed System (City Multi* ¹ Indoor Unit + Branch Box)	Indoor Unit + Branch Box
P112/125/140	Refrigerant Piping Length	Total Length	300	150	240 (2 Branch boxes) / 300 (1 Branch box)
		Maximum Allowable Length	150 (175 equivalent)	80	85 (95 equivalent)
		Farthest Indoor From First Branch	30	55	30
	Vertical Differentials Between Units	Indoor/Outdoor (Outdoor higher)	50	50	50
		Indoor/Outdoor (Outdoor Lower)	40* ²	40	40
		Indoor/Indoor	15* ³	15* ³	15* ³
P200	Refrigerant Piping Length	Total Length	150	150	150
		Maximum Allowable Length	80 (90 equivalent)	80	80 (90 equivalent)
		Farthest Indoor From First Branch	30	55	30
	Vertical Differentials Between Units	Indoor/Outdoor (Outdoor higher)	50	50	50
		Indoor/Outdoor (Outdoor Lower)	40	40	40
		Indoor/Indoor	15* ³	15* ³	15* ³

*1 Include system with connection kit
*2 In case of including PKFY or PFFY, height between units is 30m.
*3 In case of branch box connection: 12m

30Pa external static pressure* Option (requires PAC-SJ71FM-E)

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

* PUMY-P112/125/140VKM4(-BS), PUMY-P112/125/140YKM(E)4(-BS) only.
* Noise level will increase when using this function.

30Pa external static pressure fan motor (option)
(PAC-SJ71FM-E)





Model		PUMY-P112VKM4(-BS)	PUMY-P125VKM4(-BS)	PUMY-P140VKM4(-BS)	PUMY-P112YKM4(-BS)	PUMY-P125YKM4(-BS)	PUMY-P140YKM4(-BS)	PUMY-P200YKM2(-BS)	
Power Source		1-phase 220 - 230 - 240V 50Hz			3-phase 380 - 400 - 415V 50Hz				
Cooling Capacity (nominal)	Power Input *1	kW	12.5	14.0	15.5	12.5	14.0	15.5	22.4
	Current Input	kW	2.79	3.46	4.52	2.79	3.46	4.52	6.05
	EER	kW/kW	4.48	4.05	3.43	4.48	4.05	3.43	3.70
	Temp. Range of Cooling	Indoor Temp. 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	15.0 - 24.0°C
	Outdoor Temp. *3	D.B.	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	-5.0 - 52°C	
Heating Capacity (nominal)	Power Input *2	kW	14.0	16.0	18.0	14.0	16.0	18.0	25.0
	Current Input	kW	3.04	3.74	4.47	3.04	3.74	4.47	5.84
	COP	kW/kW	4.61	4.28	4.03	4.61	4.28	4.03	4.28
	Temp. Range of Heating	Indoor Temp. 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	15.0 - 27.0°C
	Outdoor Temp. 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	-20.0 - 15.0°C	
Indoor Unit Connectable	Total Capacity		50 to 130% of outdoor unit capacity						
	Model / Quantity	City Multi	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12	15 - 200 / 12
		Branch Box*5	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8
	Mixed System	Branch Box 1 unit	City Multi	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5	15 - 200 / 5
			Branch Box	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5
Branch Box 2 units		City Multi	15 - 140 / 3 or 2**4	15 - 140 / 3	15 - 140 / 3	15 - 140 / 3 or 2**4	15 - 140 / 3	15 - 140 / 3	15 - 200 / 3
	Branch Box	15 - 100 / 7 or 8**4	15 - 100 / 8	15 - 100 / 8	15 - 100 / 7 or 8**4	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	
Sound Pressure Level (measured in anechoic room)	dB <A>	49 / 51	50 / 52	51 / 53	49 / 51	50 / 52	51 / 53	56 / 61	
Refrigerant Piping Diameter	Liquid Pipe	mm	9.52 Flare					9.52**5 Flare	
	Gas Pipe	mm	15.88 Flare					19.1 Flare	
Fan	Type x Quantity		Propeller Fan x 2						
	Air Flow Rate	m ³ /min	110					139	
		L/s	1,883					2,316	
		cfm	3,884					4,908	
Motor Output	kW	0.074 + 0.074						0.20 + 0.20	
Compressor	Type x Quantity		Scroll hermetic compressor x 1						
	Starting Method		Inverter						
	Motor Output	kW	2.9	3.5	3.9	2.9	3.5	3.9	5.3
External Dimensions (H x W x D)	mm	1,338x1,050x330 (+40)							
Weight	kg	122			125			141	

*1,*2 Nominal conditions

	Indoor	Outdoor	Piping Length	Level Difference
Cooling	27°C DB / 19°C WB	35°C	7.5m	0m
Heating	20°C DB	7°C DB / 6°C WB	7.5m	0m

*3 10 to 52°C D.B.; When connecting PKFY-P15/20/25VBM, PFFY-P20/25/32VKM and PFFY-P20/25/32VLE(R)M, PEFY-P-VMA3, M, S and P series indoor unit.

*4 When connecting 7 indoor units via branch box, connectable City Multi indoor units are 3; connecting 8 indoor units via branch box, connectable indoor units are 2.

*5 At least 2 indoor units must be connected when using branch box.

*6 Liquid pipe diameter: 12.7mm when piping length is more than 60m.

Model		PUMY-P112YKME4(-BS)	PUMY-P125YKME4(-BS)	PUMY-P140YKME4(-BS)		
Power Source		3-phase 380 - 400 - 415V 50Hz				
Cooling Capacity (nominal)	Power Input *1	kW	12.5	14.0	15.5	
	Current Input	kW	2.79	3.46	4.52	
	EER	kW/kW	4.48	4.05	3.43	
	Temp. Range of Cooling	Indoor Temp. W.B.	15 to 24°C	15 to 24°C		
	Outdoor Temp. *3	D.B.	-5 to 52°C			
Heating Capacity (nominal)	Power Input *2	kW	14.0	16.0	18.0	
	Current Input	kW	3.04	3.74	4.47	
	COP	kW/kW	4.61	4.28	4.03	
	Temp. Range of Heating	Indoor Temp. D.B.	15 to 27°C	15 to 27°C		
	Outdoor Temp. W.B.	-20 to 15°C	-20 to 15°C			
Indoor Unit Connectable	Total Capacity		50 to 130% of outdoor unit capacity			
	Model / Quantity	City Multi	15 - 140 / 9	15 - 140 / 10	15 - 140 / 12	
		Branch Box*5	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	
	Mixed System	Branch Box 1 unit	City Multi	15 - 140 / 5	15 - 140 / 5	15 - 140 / 5
			Branch Box	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5
Branch Box 2 units		City Multi	15 - 140 / 3 or 2**4	15 - 140 / 3	15 - 140 / 3	
	Branch Box	15 - 100 / 7 or 8**4	15 - 100 / 8	15 - 100 / 8		
Sound Pressure Level (measured in anechoic room)	dB <A>	49 / 51	50 / 52	51 / 53		
Refrigerant Piping Diameter	Liquid Pipe	mm	9.52 Flare			
	Gas Pipe	mm	15.88 Flare			
Fan	Type x Quantity		Propeller Fan x 2			
	Air Flow Rate	m ³ /min	110			
		L/s	1,833			
		cfm	3,884			
Motor Output	kW	0.074 + 0.074				
Compressor	Type x Quantity		Scroll hermetic compressor x 1			
	Starting Method		Inverter			
	Motor Output	kW	2.9	3.5	3.9	
External Dimensions (H x W x D)	mm	1,338x1,050x330 (+40)				
Weight	kg	136				

*1,*2 Nominal conditions

	Indoor	Outdoor	Piping Length	Level Difference
Cooling	27°C DB / 19°C WB	35°C	7.5m	0m
Heating	20°C DB	7°C DB / 6°C WB	7.5m	0m

*3 10 to 52°C D.B.; When connecting PKFY-P15/20/25VBM, PFFY-P20/25/32VKM and PFFY-P20/25/32VLE(R)M, PEFY-P-VMA3, M, S and P series indoor unit.

*4 When connecting 7 indoor units via branch box, connectable City Multi indoor units are 3; connecting 8 indoor units via branch box, connectable indoor units are 2.

*5 At least 2 indoor units must be connected when using branch box.

Type		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 Supply	Source	Outdoor power supply, Branch Box / Outdoor separate power supply					
	Outdoor (V/Phase/Hz)	1-phase, 220/230/240V, 50Hz, 1-phase, 220V, 60Hz					
Total Input	kW	0.003					
Operating Current	A	0.05					
Dimensions	H x W x D	170 - 450 - 280					
Weight	kg	7.4	6.7	7.0	6.5		
Piping (diameter)	Branch (Indoor Side)	Liquid	mm	6.35 x 5	6.35 x 3	6.35 x 5	6.35 x 3
		Gas	mm	9.52 x 4, 12.7 x 1	9.52 x 3	9.52 x 4, 12.7 x 1	9.52 x 3
	Main (Outdoor Side)	Liquid	mm	9.52			
		Gas	mm	15.88			
	Connection Method		Flared		Brazed		
Wiring	to Indoor Unit	3-wire + Earth wire					
	to Outdoor Unit	3-wire + Earth wire					