MITSUBISHI ELECTRIC

City Multi Outdoor Units

PUMY Series

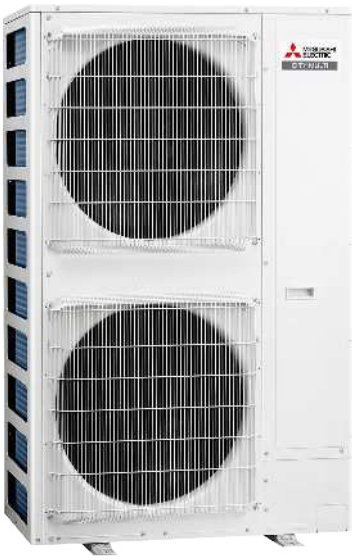


NEW PRODUCT to the

PUMY Family

PUMY-P250/300YBMD-A

28.0 kW & 33.5 kW Outdoor Unit



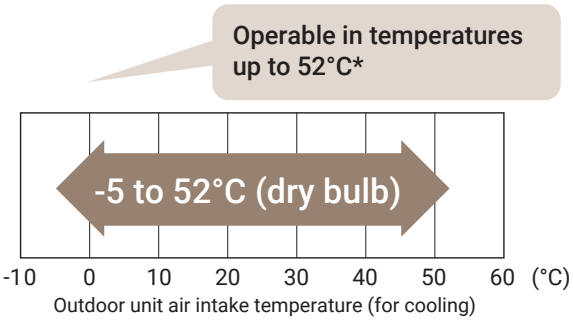
Mitsubishi Electric introduces the **NEW** PUMY-P250/300YBMD-A (28.0 kW & 33.5 kW) VRF side flow outdoor units. The already impressive range of VRF PUMY systems are now available from 9.0 kW to 33.5 kW range. These outdoor units are compatible with a wide range of commercial and residential indoor units, allowing for flexibility in design.

- Capacity: 28.0/33.5 kW
- Three Phase

Guaranteed Operating Range

With the harsh Australian environment, it is comforting to know that your air conditioner will continue to operate with a guaranteed operating range of -5°C to 52°C*. This means your air conditioner will continue to operate when you need it most.

*The capacity will be reduced when operating the unit at the extreme operating temperature.



High Energy Efficiency

Featuring an inverter that utilises cutting edge technologies, PUMY-P250/300YBMD-A units achieve high energy efficiency ratio (EER) of 4.10 (P250 & P300) and coefficient of performance (COP) of 5.20 (P250)/5.10 (P300).

Adjustable Fan External Static Pressure*

The fan external static pressure can be adjusted up to 30 Pa to allow installation on balconies or spaces near louvres. This gives more flexibility in installation location where it may not be possible before.

*Noise level will increase when using this function.

Quiet Mode

PUMY-P250/300YBMD-A units have three quiet mode settings which can reduce the noise level down by 10 dBA*. This allows the unit to operate at night in a noise sensitive residential application.

*Measured in anechoic chamber.
*Capacity will be reduced depending on the quiet mode setting selected.
*PAC-SC36NA-E is required to activate low noise mode.

PUMY Series

Side Flow Outdoor Unit

PUMY-P250/300 models have an impressive variety of design options allowing connections of up to 3 branch boxes with over 100 different indoor unit models to choose from. This opens up new possibilities for air conditioning applications from residential apartments and houses, to commercial shops and offices.

Compatible Indoor Unit Range

Wall Mounted	Floor Standing	Ceiling Cassette	Ceiling Suspended	Ceiling Concealed
 MSZ-LN	 MFZ-KW	 PLA-M	 PCA-M	 SEZ-M
 MSZ-EF	 PFFY-P-VKM-E2	 SLZ-M	 PCFY-P-VKM-E	 PEAD-M
 MSZ-AP	 PFFY-P-VLEM-E	 MLZ-KP		 PEFY-P-VMR-E-L/R
 PKFY-P-VLM-E	 PFFY-P-VCM-E	 PLFY-P-VEM-A		 PEFY-P-VMS1-E
 PKFY-P-VKM-E		 PLFY-P-VFM-E1		 PEFY-P-VMA-E4
		 PLFY-P-VLMD-E		 PEFY-P-VMX-E1
		 PMFY-P-VBM-E		 PEFY-P-VMHS-E
				 PEFY-P-VMHS-E-F

Branch Box

The branch box makes it possible to connect PUMY outdoor units to residential type indoor units that do not have built-in LEV nor support M-NET connections.

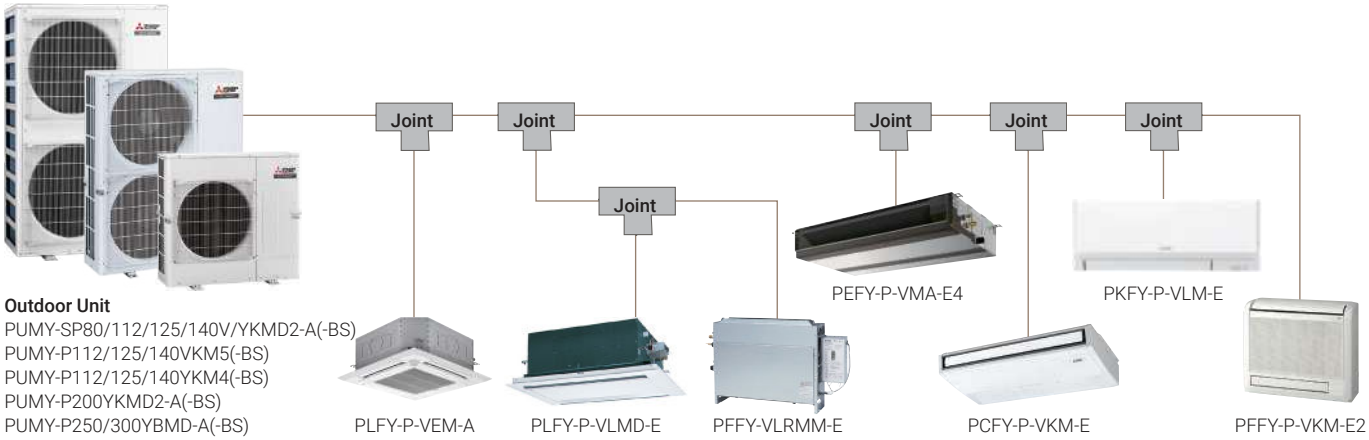

PAC-MK34BC


PAC-MK54BC

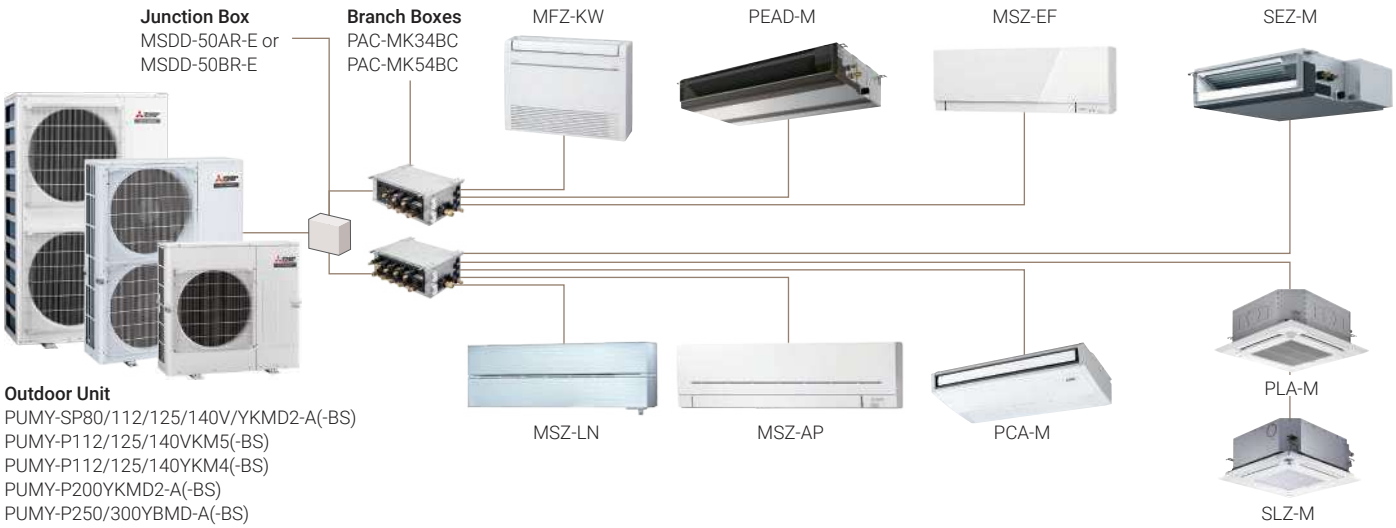
PUMY Summary

Mitsubishi Electric PUMY Series meets the needs of homes, apartments and commercial buildings with the ability to select from a range of indoor units to best match your requirements.

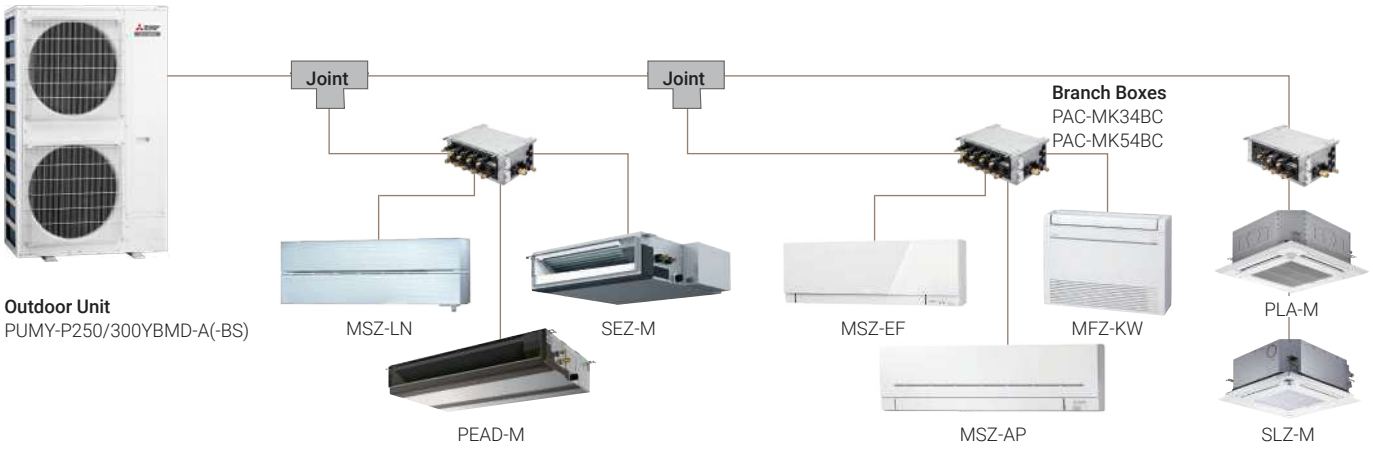
Installation with both City Multi indoor units via T-Piece and Multi Split indoor units via branch box.



Outdoor Unit
PUMY-SP80/112/125/140V/YKMD2-A(-BS)
PUMY-P112/125/140VKM5(-BS)
PUMY-P112/125/140YKM4(-BS)
PUMY-P200YKMD2-A(-BS)
PUMY-P250/300YBMD-A(-BS)



Outdoor Unit
PUMY-SP80/112/125/140V/YKMD2-A(-BS)
PUMY-P112/125/140VKM5(-BS)
PUMY-P112/125/140YKM4(-BS)
PUMY-P200YKMD2-A(-BS)
PUMY-P250/300YBMD-A(-BS)



Outdoor Unit
PUMY-P250/300YBMD-A(-BS)

Connectible indoor unit varies depending on capacity.

Product Specifications



Series				PUMY-SP (Single Fan)			
Outdoor Unit				PUMY-SP80 VKMD2-A(-BS)	PUMY-SP112 VKMD2-A(-BS)	PUMY-SP125 VKMD2-A(-BS)	PUMY-SP140 VKMD2-A(-BS)
Power Source				VKMD2: 1-phase 220-230-240 V, 50 Hz; 1-phase 220 V, 60 Hz			
Cooling	Capacity [Nominal]*1, 7		kW	9.0	12.5	14.0	15.5
	Power Input		kW	2.11	3.10	3.84	4.31
	Current Input		A	9.79 - 9.36 - 8.97	14.38 - 13.75 -13.18	17.81 -17.04 -16.33	19.99 - 19.12 - 18.32
	EER			4.27	4.03	3.65	3.60
	Temp. Range	Indoor	W.B.	15°C ~ 24°C			
		Outdoor	D.B.	-5°C ~ 52°C*3, 4			
Heating	Capacity [Nominal]*2, 8		kW	10.0	14.0	16.0	16.5
	Power Input		kW	2.27	3.17	3.90	4.02
	Current Input		A	10.53 -10.07 - 9.65	14.70 -14.06 -13.48	18.09 - 17.30 - 16.58	18.65 - 17.83 - 17.09
	COP			4.41	4.42	4.10	4.10
	Temp. Range	Indoor	W.B.	15°C ~ 27°C			
		Outdoor	D.B.	-20°C ~ 15°C			
Indoor Unit Connectable		Total Capacity		50% to 130% of outdoor unit capacity			
		Model/Quantity		P10 - P100/9	P10 - P140/12		
Sound Pressure Level [Measured in Anechoic Room]			dBA	51/54	52/54	53/56	54/56
Piping [Liquid/Gas]			mm	ø9.52/ø15.88			
Fan	Type x Quantity			Propeller fan x 1			
	Airflow Rate		m^3/min	75	77/75	81/83	
			L/s	1250	1283/1250	1350/1383	
	Motor Output		kW	0.20 x 1			
	External Static Pressure		Pa	0/30*5			
Compressor	Type x Quantity			Twin rotary hermetic compressor x 1			
	Starting Method			Inverter			
	Motor Output		kW	1.5	2.2	2.5	3.1
External Finish				Galvanised steel sheet Munsell no. 3Y 7.8/1.1			
External Dimension [HxWxD]			mm	981 x 1050 x 330 (+25)			
Refrigerant	Type x Original Charge			R410A x 3.5 kg			
Net Weight			kg	93*6			
Heat Exchanger				Cross fin and copper tube			
Optional Parts				Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E			

Notes:

*1, *2 Nominal conditions (subject to ISO 15042).
*3 10°C to 52°C: when connecting following models: PEFY-P15/20/25/32/40VMX-E1, PKFY-P10/15/20/25/32VLM, PFFY-P20/25/32VLE(R)M, PFFY-P20/25/32VKM, and M Series, S Series and P Series type indoor unit with branch box.
*4 -15°C to 52°C: when using an optional air protect guide [PAC-SH95AG-E]. However, this condition does not apply to the indoor unit listed in *3.
*5 It is possble to set the External static pressure to 30 Pa by dip switch.
*6 94 kg for PUMY-P80/112/125/140VKMD2-BS.

Rating Conditions:

*7 Cooling: Indoor 27°C, D.B./19°C, W.B.
Outdoor 35°C, D.B./24°C, W.B.
*8 Heating: Indoor 20°C, D.B./15°C, W.B.
Outdoor 7°C, D.B./6°C, W.B.



Series				PUMY-SP (Single Fan)			
Outdoor Unit				PUMY-SP80 YKMD2-A(-BS)	PUMY-SP112 YKMD2-A(-BS)	PUMY-SP125 YKMD2-A(-BS)	PUMY-SP140 YKMD2-A(-BS)
Power Source				YKMD2: 3-phase 380-400-415 V, 50 Hz; 3-phase 380 V, 60 Hz			
Cooling	Capacity [Nominal]*1, 7		kW	9.0	12.5	14.0	15.5
	Power Input		kW	2.11	3.10	3.84	4.31
	Current Input		A	3.37 - 3.21 - 3.09	4.96 - 4.71 - 4.54	6.14 - 5.83 - 5.62	6.89 - 6.55 - 6.31
	EER			4.27	4.03	3.65	3.60
	Temp. Range	Indoor	W.B.	15°C ~ 24°C			
		Outdoor	D.B.	-5°C ~ 52°C*3, 4			
Heating	Capacity [Nominal]*2, 8		kW	10.0	14.0	16.0	16.5
	Power Input		kW	2.27	3.17	3.90	4.02
	Current Input		A	3.63 - 3.45 - 3.32	5.07 - 4.82 - 4.64	6.24 - 5.93 - 5.71	6.43 - 6.11 - 5.89
	COP			4.41	4.42	4.10	
	Temp. Range	Indoor	W.B.	15°C ~ 27°C			
		Outdoor	D.B.	-20°C ~ 15°C			
Indoor Unit Connectable		Total Capacity		50% to 130% of outdoor unit capacity			
		Model/Quantity		P10 - P100/9	P10 - P140/12		
Sound Pressure Level [Measured in Anechoic Room]			dBA	51/54	52/54	53/56	54/56
Piping [Liquid/Gas]			mm	ø9.52/ø15.88			
Fan	Type x Quantity			Propeller fan x 1			
	Airflow Rate		m^3/min	75	77/75	81/83	
			L/s	1250	1283/1250	1350/1383	
	Motor Output		kW	0.20 x 1			
	External Static Pressure		Pa	0/30*5			
Compressor	Type x Quantity			Twin rotary hermetic compressor x 1			
	Starting Method			Inverter			
	Motor Output		kW	1.6	2.1	2.5	3.0
External Finish				Galvanised steel sheet Munsell no. 3Y 7.8/1.1			
External Dimension [HxWxD]			mm	981 x 1050 x 330 (+25)			
Refrigerant	Type x Original Charge			R410A x 3.5 kg			
Net Weight			kg	94*6			
Heat Exchanger				Cross fin and copper tube			
Optional Parts				Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E			

Notes:

*1, *2 Nominal conditions (subject to ISO 15042).
*3 10°C to 52°C: when connecting following models: PEFY-P15/20/25/32/40VMX-E1, PKFY-P10/15/20/25/32VLM, PFFY-P20/25/32VLE(R)M, PFFY-P20/25/32VKM, and M Series, S Series and P Series type indoor unit with branch box.
*4 -15°C to 52°C: when using an optional air protect guide [PAC-SH95AG-E]. However, this condition does not apply to the indoor unit listed in *3.
*5 It is possble to set the External static pressure to 30 Pa by dip switch.
*6 95 kg for PUMY-P80/112/125/140YKMD2-BS.

Rating Conditions:

*7 Cooling: Indoor 27°C, D.B./19°C, W.B.
Outdoor 35°C, D.B./24°C, W.B.
*8 Heating: Indoor 20°C, D.B./15°C, W.B.
Outdoor 7°C, D.B./6°C, W.B.



Series				PUMY-P (Twin Fan)					
Outdoor Unit				PUMY-P112 VKM5-A(-BS)	PUMY-P112 YKM4-A(-BS)	PUMY-P125 VKM5-A(-BS)	PUMY-P125 YKM4-A(-BS)	PUMY-P140 VKM5-A(-BS)	PUMY-P140 YKM4-A(-BS)
Power Source				VKM5: 1-phase 220-230-240 V, 50 Hz; 1-phase 220 V, 60 Hz YKM4: 3-phase 380-400-415 V, 50 Hz; 3-phase 380 V, 60 Hz					
Cooling	Capacity [Nominal]*1, 5		kW	12.5		14.0		15.5	
	Power Input		kW	2.79		3.46		4.52	
	Current Input		A	12.32	4.74	15.27	5.55	19.95	6.87
	EER			4.48		4.05		3.43	
	Temp. Range	Indoor	W.B.	15°C ~ 24°C					
		Outdoor	D.B.	-5°C ~ 52°C*3, 4					
Heating	Capacity [Nominal]*2, 6		kW	14.0		16.0		18.0	
	Power Input		kW	3.04		3.74		4.47	
	Current Input		A	13.42	5.16	16.51	6.00	19.73	6.79
	COP			4.61		4.28		4.03	
	Temp. Range	Indoor	W.B.	15°C ~ 27°C					
		Outdoor	D.B.	-20°C ~ 15°C					
Indoor Unit Connectable		Total Capacity		50% to 130% of outdoor unit capacity					
		Model/Quantity		P10 - P140/9		P10 - P140/10		P10 - P140/12	
Sound Pressure Level [Measured in Anechoic Room]			dBA	49/51		50/52		51/53	
Piping [Liquid/Gas]			mm	ø9.52/ø15.88					
Fan	Type x Quantity			Propeller fan x 2					
	Airflow Rate		m^3/min	110					
			L/s	1833					
	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 Finish				Galvanised steel sheet Munsell no. 3Y 7.8/1.1					
External Dimension [HxWxD]			mm	1338 x 1050 x 330 (+25)					
Refrigerant	Type x Original Charge			R410A x 4.8 kg					
Net Weight			kg	123	125	123	125	123	125
Heat Exchanger				Cross fin and copper tube					
Optional Parts				Joint: CMY-Y62-G-E Header: CMY-Y64/68-G-E					

Notes:

*1, *2 Nominal conditions (subject to ISO 15042).
*3 10°C to 52°C: when connecting following models: PKFY-P10/15/20/25/32VLM, PFFY-P20/25/32VLEM, PFFY-P20/25/32VLRM(M), PFFY-P20/25/32VKM, PFFY-P20/25/32VCM, PEFY-P25/32/40VMA3, and M Series, S Series and P Series type indoor unit.
*4 -15°C to 52°C, when using an optional air protect guide [PAC-SH95AG-E]. However, this condition does not apply to the indoor unit listed in *3 above.

Rating Conditions:

*5 Cooling: Indoor 27°C, D.B./19°C, W.B.
Outdoor 35°C, D.B./24°C, W.B.
*6 Heating: Indoor 20°C, D.B./15°C, W.B.
Outdoor 7°C, D.B./6°C, W.B.



Series				PUMY-P (Twin Fan)		
Outdoor Unit				PUMY-P200 YKMD2-A(-BS)	PUMY-P250 YBMD-A(-BS)	PUMY-P300 YBMD-A(-BS)
Power Source				YKMD2/YBMD: 3-phase 380-400-415 V, 50 Hz; 3-phase 380 V, 60 Hz		
Cooling	Capacity [Nominal]*1, 10		kW	22.4	28.0	33.5
	Power Input		kW	6.22	6.83	8.17
	Current Input		A	10.16 - 9.65 - 9.30	11.16 - 10.60 - 10.22/11.16	13.35 - 12.68 - 12.22/13.35
	EER			3.60	4.10	
	Temp. Range	Indoor	W.B.	15°C ~ 24°C		
		Outdoor	D.B.	-5°C ~ 52°C*3	-5°C ~ 52°C*4, 5	
Heating	Capacity [Nominal]*2, 11		kW	25.0	31.5	37.5
	Power Input		kW	6.00	6.06	7.36
	Current Input		A	9.80 - 9.31 - 8.98	9.90 - 9.41 - 9.07/9.90	12.02 - 11.42 - 11.01/12.02
	COP			4.17	5.20	5.10
	Temp. Range	Indoor	W.B.	15°C ~ 27°C		
		Outdoor	D.B.	-20°C ~ 15°C		
Indoor Unit Connectable		Total Capacity		50% ~ 130% of outdoor unit capacity		
		Model/Quantity		P10 - P200/12	P15 - P250/21 (branch box P25 - P71/12)	P15-P250/25 (branch box P25 - P71/12)
Sound Pressure Level [Measured in Anechoic Room]			dBA	57/61	59/60	60/62
Piping [Liquid/Gas]			mm	ø9.52*6/ø19.05	ø9.52*7/ø22.20	ø12.70/ø25.40
Fan	Type x Quantity			Propeller fan x 2		
	Airflow Rate		m^3/min	134	187 (cooling)/183 (heating)	187 (cooling)/197 (heating)
			L/s	2233	3117 (cooling)/3050 (heating)	3117 (cooling)/3283 (heating)
	Motor Output		kW	0.20 + 0.20	0.375 x 2	
	External Static Pressure		Pa	0	0/30*8	
Compressor	Type x Quantity			Scroll hermetic compressor x 1		
	Starting Method			Inverter		
	Motor Output		kW	4.07	6.30	7.23
External Finish				Galvanised steel sheet Munsell no. 3Y 7.8/1.1		
External Dimension [HxWxD]			mm	1338 x 1050 x 330 (+25)	1662 x 1050 x 460 (+45)	
Refrigerant	Type x Original Charge			R410A x 7.3 kg	R410A x 9.3 kg	
Net Weight			kg	138*9	192*9	
Heat Exchanger				Cross fin and copper tube		
Optional Parts				Air protection guide: PAC-SH95AG-E Air outlet guide: PAC-SH96SG-E	Air protection guide: PAC-SK21AG-E Air outlet guide: PAC-SK22SG-E	

Notes:

*1, *2 Nominal conditions (subject to ISO 15042).
*3 10°C to 52°C: when connecting following models: PKFY-P10/15/20/25/32VLM-E, PFFY-P20/25/32VKM, PFFY-P20/25/32VLEM, PFFY-P20/25/32VLRM(M), and M Series, S Series and P Series type indoor unit.
*4 10°C to 52°C: when connecting following models: PKFY-P15/20/25/32VLM, PFFY-P20/25/32VKM, PFFY-P20/25/32VCM, PFFY-P20/25/32VLEM, PEFY-P50/63VMA3-E, and M Series and S Series type indoor unit.
*5 -15°C to 52°C: when using an optional air protect guide (PAC-SK21AG-E). However, this condition does not apply to the indoor unit listed in *4.
*6 Liquid pipe diameter: 12.7 mm, when further piping length is longer than 60 m, or the farthest length of main pipe between outdoor unit and branch box is longer than 20 m in branch box system.
*7 Liquid pipe diameter: 12.7 mm, when further piping length is longer than 90 m, and when PEFY-P200 or P250 is connected.
*8 It is possble to set the External static pressure to 30 Pa by dip switch.
*9 139 kg for PUMY-P200YKMD2-A-BS. 194 kg for PUMY-P250/300YBMD-A-BS.

Rating Conditions:

*10 Cooling: Indoor 27°C, D.B./19°C, W.B.
Outdoor 35°C, D.B./24°C, W.B.
*11 Heating: Indoor 20°C, D.B./15°C, W.B.
Outdoor 7°C, D.B./6°C, W.B.

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