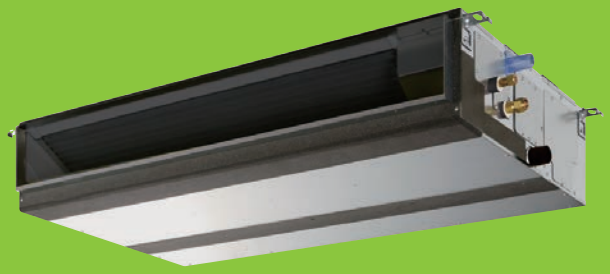
Ceiling-concealed

PEY SERIES (MODELS)



PEY-ZM18/24/30/36/45JAG-AE [SA, GU]



PEY-(Z)M60GAG-AE
PEY-ZM60GAG-SA [GU]



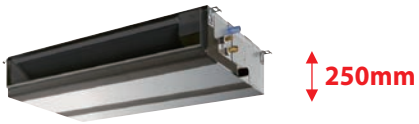
optional *optional(60) *optional(18-45)
* Signal receiver is required.



The thin, ceiling-concealed indoor units of the PEY series are the perfect answer for the air-conditioning requirements of buildings with minimum ceiling installation space and wide-ranging external static pressure. Energy-saving efficiency has been improved, thereby reducing electricity consumption and contributing to a further reduction in operating cost.

Compact Indoor Units*

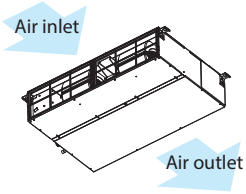
The unit height is unified to 250mm.
which makes installation in low ceilings with minimal clearance space possible.
*PEY-ZM18/24/30/36/45JAG



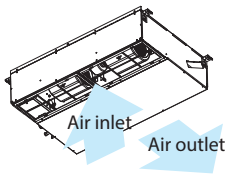
Air Inlet

Units with bottom inlets make more noise than those with rear inlets. It is recommended that the rear inlet be selected when installing a unit in a room that should be quiet, such as a bedroom.

(1) Rear inlet



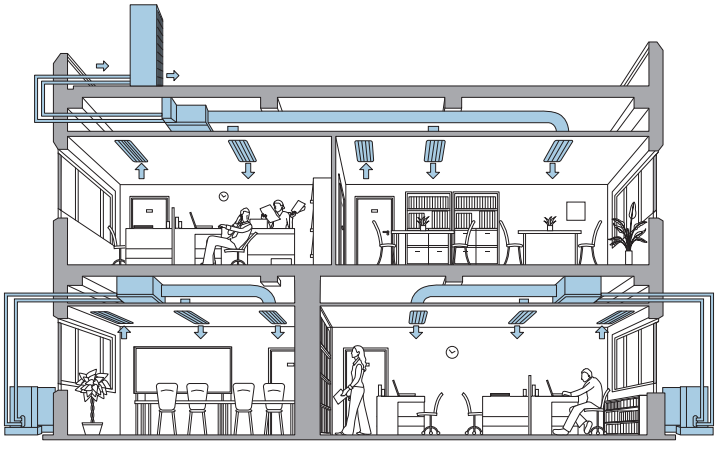
(2) Bottom inlet



Wide Selection of Fan Speeds and External Static Pressure

Five-stage external static pressure conversions and three fan speed*1 selections are available. Capable of being set to a maximum of 150Pa*2, units are applicable to a wide range of building types. *1 PEY-ZM18/24/30/36/45JAG *2 PEY-ZM60GAG

■Flexible duct design



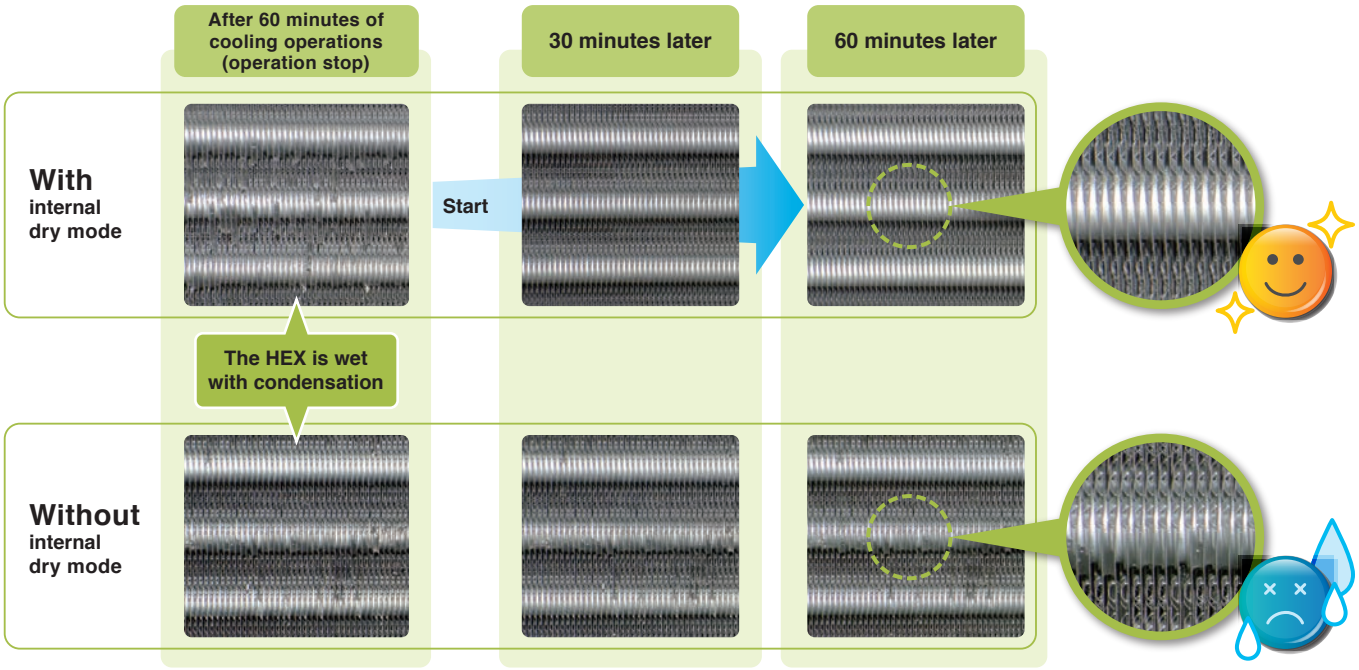
■External static pressure setting

PEY-ZM18/24/30/36/45JAG	35/50/70/100/125Pa
PEY-ZM60GAG	50/100/150Pa

Internal Dry Mode (for PEY-ZM18/24/30/36/45JAG)

To dry the heat exchanger (HEX), the unit will operate in the fan mode at high speed after cooling or drying operation has stopped. The drying time is selectable from 30 or 60 minutes.

■**Operating Sample**



*Under norminal cooling conditions (Indoor) (27CD.B./19˚CW.B.) *Results will vary depending on indoor temperature and humidity conditions.

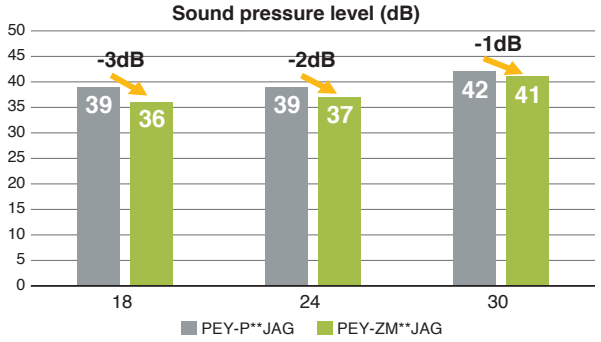
High Power Fan Speed Mode (for PEY-ZM18/24/30/36/45JAG)

This start-up mode is run with the increased fan speed for a maximum of 15 minutes to rapidly cool or heat the space (after the first Thermo-ON operation).

*Power consumption and sound pressure level will increase in this mode.
*High power fan speed mode is not available when the external static pressure is set to 125 Pa.

Reduced Noise Level

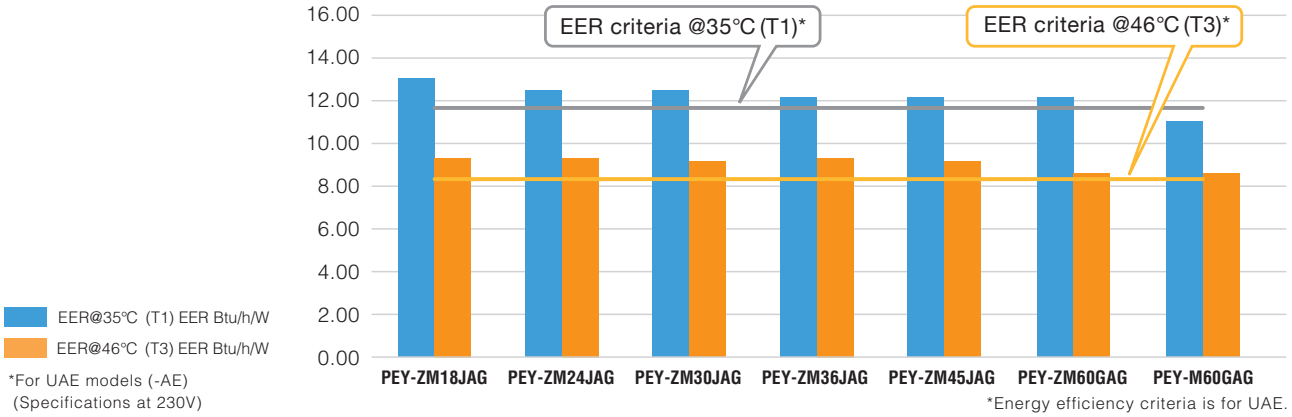
The noise levels of low capacity models (ZM18/24/30) are reduced compared to conventional models. The ZM18 model achieves 3dB reduction in noise level.



*Specifications reported are figures of high notch sound pressure level.

High Energy Efficiency

The classes from low-capacity (18,000Btu) to high-capacity (60,000Btu), have achieved high energy efficiency not only rated condition (35°C), but even at high ambient 46°C.



*For UAE models (-AE)
(Specifications at 230V)

*Energy efficiency criteria is for UAE.

P series Inverter models Specification

Ceiling-concealed (-AE, -SA, -GU)

Indoor				PEY-ZM18JAG	PEY-ZM24JAG	PEY-ZM30JAG	PEY-ZM36JAG	PEY-ZM45JAG	
Outdoor			-AE	SUY-ZM18VA	SUY-ZM24VA	SUY-ZM30VA	PUY-ZM36VKA	PUY-ZM45VKA	PUY-ZM45YKA
			-GU						-
			-SA	SUY-ZM18NA	SUY-ZM24NA	SUY-ZM30NA	PUY-ZM36NKA	PUY-ZM45NKA	PUY-ZM45XKA
Power supply (Outdoor)		-AE, -GU	V/Phase/Hz	220 - 240 / Single / 50					380-415/Three/50
		-SA		220 / Single / 60					380 / Three / 60
Refrigerant				R32					
T1		Capacity (Min-Max)	kW	5.31 (2.80-5.40)	7.10 (3.60-8.90)	8.80 (4.10-9.70)	10.60 (4.10-10.70)	13.20 (6.20-15.00)	
			Btu/h	18,100 (9,554-18,425)	24,200 (12,283-30,367)	30,000 (13,989-33,096)	36,200 (13,989-36,598)	45,000 (21,154-40,944)	
		Total input	kW	1.387	1.936	2.400	2.979	3.704	
		EER	Btu/h/W	13.05	12.50		12.15		
T3		Capacity	kW	4.77	6.39	7.90	9.55	11.90	
			Btu/h	16,300	21,800	27,000	32,600	40,600	
		Total input	kW	1.772	2.370	3.000	3.544	4.511	
		EER	Btu/h/W	9.20	9.20	9.00	9.20	9.00	
Operating Current			-AE	6.4	8.8	10.9	13.6	16.7	6.3
			-SA	6.7	9.2	11.4	14.2	17.5	6.6
			-GU	6.1	8.4	10.5	13	16.1	6.1
Indoor Unit	Power Input	Rated	kW	0.09	0.14	0.19	0.32		
	Running Current	Rated	A	0.69	0.95	1.25	1.98		
	Dimension	H*W*D	mm	250*900*732	250*1100*732	250*1400*732			
	Net weight		kg	26.0	29.5	36.5	38.0		
	Air Volume (Lo-Med-Hi)		m^3/min	12.0-14.5-17.0	17.5-21.0-25.0	24.0-29.0-34.0	29.5-35.5-42.0		
	External Static Pressure		Pa	50					
	Sound level (SPL) (Lo-Med-Hi)		dB(A)	28 - 32 - 36	29 - 33 - 37	33 - 37 - 41	36 - 40 - 44		
Outdoor Unit	Dimension	H*W*D	mm	714*800*285	880*840*330		981*1050*330	1338*1050*330	
	Net weight		kg	38	48	46	65	100	102
	Air Volume		m^3/min	45.6	63.4		87	116	
	Sound level (SPL)		dB(A)	51	54			55	
	Breaker Size		A	16	20		25	40	25
Piping	Piping diameter	Liquid-Gas	inch	1/4 - 1/2	3/8 - 5/8				
	Max piping length	Out-In	m	30		50		55	
	Max Height deffierence	Out-In	m	20	25	30			
Guaranteed Operation Range (Outdoor)			°C	18-52					

* Specifications are based on the following condition.
  T1- Condition : indoor temperature of 27°CDB/ 19°CWB, and outdoor temperature of 35°CDB/24°CWB.
  T3- Condition : indoor temperature of 29°CDB/ 19°CWB, and outdoor temperature of 46°CDB/24°CWB.
* Unit is able to operate up to 52 deg C based on the testing condition of UAE S/ISO 13253:2011
* T1 and T3 are specifications at 230V.
* Operating current specifications are at 220-230-240V.

Outdoor Unit



SUY-ZM18VA-AE [GU]
SUY-ZM18NA-SA



SUY-ZM24/30VA-AE [GU]
SUY-ZM24/30NA-SA



PUY-ZM36VKA-AE [GU]
PUY-ZM36NKA-SA

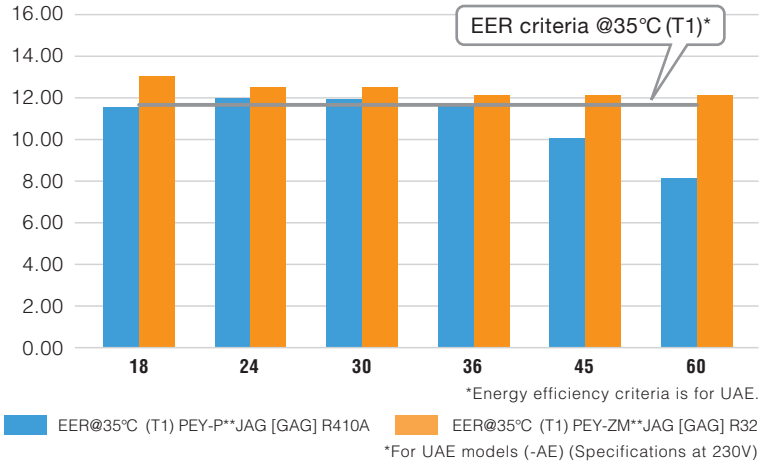


PUY-ZM45/60VKA-AE [GU]
PUY-ZM45/60YKA-AE
PUY-M60V[Y]KA-AE
PUY-ZM45/60N[X]KA-SA

Improved Energy Efficiency

Introduction of new R32 refrigerant realises improved cooling efficiency.

Introduction of new R32 refrigerant reduces energy consumption and realizs energy savings.



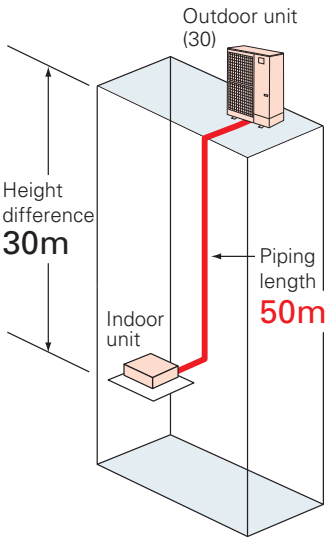
*For UAE models (-AE) (Specifications at 230V)

Longer Piping (18/24/30/36/45)

Piping length and height difference (18/24/30) are longer than R410A models. Installation flexibility increases widely. Piping length (36/45) are also longer from 50m to 55m.

Capacity Class	Max. Piping Length (m)		Max. Height Difference (m)	
	R410A SUY-P	R32 SUY/PUY-ZM	R410A SUY-P	R32 SUY/PUY-ZM
18	20	30	12	20
24	30	30	15	25
30	30	50	15	30
36	30	50	15	30

*SUY-P : SUY-P**VA3 SUY-ZM : SUY/PUY-ZM**VA



Blue Fin Condenser

A special coating is applied to the heat exchanger to increase corrosion toughness.



Function List for P-Series

Category		Icon							
		Combination	Indoor unit	PLY-ZM18/24/30/36/45EA		PCY-ZM18/24/30/36/45KA			
			Outdoor unit	SUY-ZM18/24/30VA	PUY-ZM36VKA PUY-ZM45V(Y)KA	SUY-ZM18/24/30VA	PUY-ZM36VKA PUY-ZM45V(Y)KA		
Technology		DC Inverter		●	●	●	●		
		Joint Lap DC Motor		●		●			
		Magnetic Flux Vector Sine Wave Drive			●		●		
		Reluctance DC Rotary Compressor		●	●	●	●		
		Heating Caulking (Compressor)		●	36	●	36		
		DC Fan Motor		●	●	●	●		
		Vector-Wave Eco Inverter			●		●		
		Pulse Amplitude Modulation (PAM)		●	36,45V	●	36,45V		
		Power Receiver and Twin LEV Control			45		45		
		Grooved Piping		●	●	●	●		
Functions	Energy Saving	Felt Temperature Control (3D i-see Sensor)		Opt	Opt				
		Area Temperature Monitor							
		Demand Function			Opt		Opt		
		Auto Vane		●	●	●	●		
	Air Quality	Fresh-air Intake		●	●	●	●		
		High-efficiency Filter		Opt	Opt	Opt	Opt		
		Long-life Filter		●	●	●	●		
		Filter Check Signal		●	●	●	●		
	Air Distribution	Horizontal Vane		●	●	●	●		
		Vertical Vane							
		High Ceiling Mode		●	●	●	●		
		Low Ceiling Mode		●	●	●	●		
		Auto Fan Speed Mode		●	●	●	●		
	Convenience	On/Off Operation Timer		●	●	●	●		
		Auto Restart		●	●	●	●		
		Low-noise Operation (outdoor unit)			●		●		
		Operation Lock							
		Built-in Weekly Timer Function							
		Rotation, Back-up and 2nd Stage Cut-in Functions			Opt		Opt		
		PAR-41MAA Control		Opt	Opt	Opt	Opt		
		Centralised On/Off Control		Opt	Opt	Opt	Opt		
		System Group Control		Opt	Opt	Opt	Opt		
		M-NET Connection		Opt	Opt	Opt	Opt		
	Installation	Cleaning-free Pipe Reuse		●	●	●	●		
		Reuse of Existing Wiring			Opt		Opt		
		Drain Pump		●	●	Opt	Opt		
		Pump Down Switch			●		●		
		Flare Connection		●	●	●	●		
	Maintenance	Self-Diagnotic Function (Check Code Display)		●	●	●	●		
		Failure Recall Function		●	●	●	●		

*Opt: Optional parts must be purchased.
*1 Able to use by setting with remote controller.

P-Series					
	PEY-ZM18/24/30/36/45JAG		PEY-(Z)M60GAG	PSY-ZM30/36/45KA	PSY-ZM30/36/45KA
	SUY-ZM18/24/30VA	PUY-ZM36VKA PUY-ZM45V(Y)KA	PUY-(Z)M60V(Y)KA	SUY-ZM18/24/30VA	PUY-ZM36VKA, 45V/YKA
	●	●	●	●	●
	●			●	
		●	●		●
	●	●	●	●	●
	●	36		●	36
	●	●	●	●	●
		●	●		●
	●	36,45V	60V	36,45V	36,45V
		45	●	45	45
	●	●	●	●	●
				Opt	Opt
		Opt	Opt		Opt
				●	●
	●	●	●	●	●
				●	●
				●	●
				●	●*1
				●	●*1
				●	●*1
	●	●	●	●	●
	●	●	●	●	●
		●	●		●
				●*1	●*1
				●*1	●*1
		Opt	Opt	●*1	●*1
	Opt	Opt	Opt	●	●
	Opt	Opt	Opt	●	●
	Opt	Opt	Opt		
	Opt	Opt	Opt		
	●	●	●	●	●
		Opt	Opt		Opt
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		●	●		●
	●	●	●	●	●
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