

PCA Series

UNDER-CEILING SYSTEM



Mr. SLIM



The PCA Series high performance units are designed for style and efficiency. A stylish indoor unit design and airflow settings for both high and low-ceiling interiors expand installation possibilities. With four fan speed settings and auto air-speed adjustment, PCA Series units provide energy efficient comfort no matter the season.

Key Features

R32

Next-Generation R32 Technology

PCA Under-Ceiling Systems feature the latest in super-efficient and more environmentally friendly R32 refrigerant. With a global warming potential that is 30% lower compared to older refrigerants such as R410A, next generation R32 refrigerant has a much lower environmental impact. Furthermore, zero ozone depleting R32 is easier to reuse and recycle.



Stylish Indoor Unit Design

The stylish, sharp design of the PCA indoor unit blends in well with ceilings, for an unobtrusive installation.



Fresh Outside Air Intake

Units are equipped with a knock-out hole that enables the induction of fresh outside air.

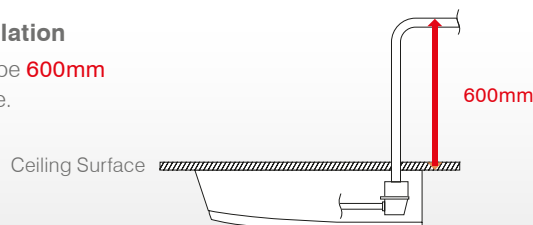


Optional Drain Pump

The pumping height of the optional drain pump has been increased from 400mm to 600mm, expanding flexibility in choice of unit location during installation work.

Drain Pump Installation

Drainage outlet can be **600mm** above ceiling surface.



PCA-M50KA

Heating Capacity: 6.0 kW | Cooling Capacity: 5.0 kW



PCA-M60KA

Heating Capacity: 7.0 kW | Cooling Capacity: 6.0 kW

PCA-M71KA-S

Heating Capacity: 8.0 kW | Cooling Capacity: 7.1 kW

PCA-M71KA

Heating Capacity: 8.0 kW | Cooling Capacity: 7.1 kW*

*Deluxe Outdoor Unit Values



PCA-M100KA

Heating Capacity: 11.2 kW | Cooling Capacity: 10.0 kW

PCA-M125KA

Heating Capacity: 14.0 kW | Cooling Capacity: 12.5 kW

PCA-M140KA

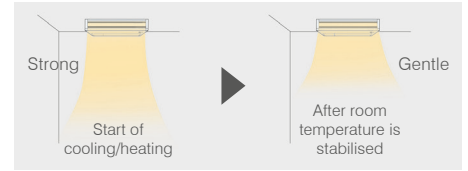
Heating Capacity: 16.0 kW | Cooling Capacity: 13.5 kW



Automatic Air-Speed Adjustment

In addition to the conventional four fan speed settings, units are now equipped with an Automatic Air-Speed Adjustment Mode. This setting automatically adjusts the air-speed to conditions that match the room environment.

At the start of heating/cooling operation, the airflow is set to high-speed to quickly heat/cool the room. When the room temperature reaches the desired setting, the airflow speed is decreased automatically for comfortable heating/cooling operation.

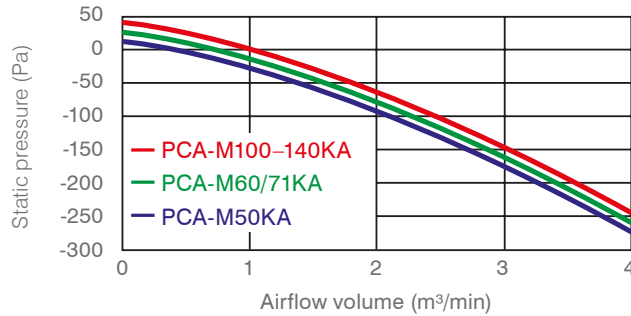


High/Low-Ceiling Modes

All PCA Series units are equipped with High and Low-Ceiling Operation Modes, that make it possible to switch the airflow volume to match room height. The ability to choose the optimum airflow volume makes it possible to optimise the breezy sensation felt throughout the room.



Outside Air Intake Characteristics



CAPACITY	HIGH CEILING	STANDARD CEILING	LOW CEILING
PCA-M50	3.5m	2.7m	2.5m
PCA-M60	3.5m	2.7m	2.5m
PCA-M71	3.5m	2.7m	2.5m
PCA-M100	4.2m	3.0m	2.6m
PCA-M125	4.2m	3.0m	2.6m
PCA-M140	4.2m	3.0m	2.6m



Optional Wi-Fi Control: Elevate Comfort, Maximise Efficiency

Upgrade your system with optional Wi-Fi Control. Make real-time adjustments on-the-go, no matter where you are via remote access. Optimise energy efficiency with smart scheduling and customisable zone/room control.



Specifications: PCA Under-Ceiling Series

REFRIGERANT		R32													
INDOOR UNIT		PCA-M50KA		PCA-M60KA		PCA-M71KA		PCA-M71KA		PCA-M100KA		PCA-M125KA		PCA-M140KA	
OUTDOOR UNIT		SUZ-M50VAD		SUZ-M60VAD		SUZ-M71VAD		PUZ-ZM71VHA		PUZ-ZM100VKA		PUZ-ZM125VKA		PUZ-ZM140VKA	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	5.0 (2.3-6.0)	6.0 (1.7-7.0)	6.0 (2.3-6.5)	7.0 (2.5-8.0)	7.1 (2.8-8.1)	8.0 (2.6-10.2)	7.1 (3.3-8.1)	8.0 (3.5-10.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	13.5 (6.2-15.3)	16.0 (5.7-18.0)
Power Input	(kW)	1.28	1.65	1.60	1.72	1.98	2.24	1.82	2.15	2.55	3.28	3.77	4.22	4.15	4.72
Rated EER/COP		3.90	3.63	3.75	4.06	3.58	3.57	3.90	3.72	3.92	3.41	3.31	3.31	3.25	3.38
Rated AEER/ACOP		3.84	3.59	3.68	4.00	3.53	3.52	3.69	3.55	3.77	3.31	3.22	3.23	3.17	3.31
Power Supply		V: Single-phase, 50Hz, 230V													
Airflow	m³/min	10-11-13-15		15-16-17-19		16-17-18-20		16-17-18-20		22-24-26-28		23-25-27-29		24-26-29-32	
	L/S	167-183-217-250		250-267-283-317		267-283-300-333		267-283-300-333		367-400-433-467		383-417-450-483		400-433-483-533	
Indoor Sound Pressure Level	(dB)	32-34-37-40		33-35-37-40		35-37-39-41		35-37-39-41		37-39-41-43		39-41-43-45		41-43-45-48	
Dimensions (indoor)	Height	(mm) 230													
	Width	(mm) 960				(mm) 1,280				(mm) 1,600					
	Depth	(mm) 680													
Weight (indoor)	(kg)	26				32				37		38		40	

Outdoor Unit Specifications

OUTDOOR UNIT		SUZ-M50VAD	SUZ-M60VAD	SUZ-M71VAD	PUZ-ZM71VHA	PUZ-ZM100VKA	PUZ-ZM125VKA	PUZ-ZM140VKA
External Finish		Munsell 3.0Y 7.8 / 1.1						
Power Supply		Single-phase, 50Hz, 230V						
Compressor Output	(kW)	0.90	0.90	1.20	1.30	2.5		
Airflow (Cooling/Heating)	m³/min(L/S)	45.8 (763) / 43.7(728)	50.1 (835)		55 (915)	110 (1831)	120 (1996)	
Sound Pressure Level (Cooling/Heating)	(dB)*1	48 / 49	49 / 51	49 / 51	47 / 51	49 / 51	50 / 52	
Sound Power Level	(dB)	66	68	68	67	69 / 69	70 / 70	70 / 71
Dimensions (H x W x D)	(mm)	714x800 x285	880x840x330		943x950 x330	1338x1050x330		
Weight	(kg)	41	54	55	70	111		
Piping Length (Chargeless/ Max.)	(m)	7 / 30	7 / 30	7 / 30	30 / 50	30 / 75		
Protection Device		-	-	-	-	Discharge thermo, HP switch		
Breaker Size	(A)	20	20	20	25	32	40	

*1 Sound pressure measurements were conducted in an anechoic chamber. The actual noise level depends on the distance from the unit and the acoustic environment.

Amount of Required Refrigerant (R32:kg)

PIPING LENGTH	FACTORY CHARGED (kg)	ADDITIONAL CHARGE (kg)				
	7m	10m	15m	20m	25m	30m
SUZ-M50	1.2	0.06	0.16	0.26	0.36	0.46
SUZ-M60	1.25	0.06	0.16	0.26	0.36	0.46
SUZ-M71	1.45	0.12	0.32	0.52	0.72	0.92
PIPING LENGTH	FACTORY CHARGED (kg)	ADDITIONAL CHARGE (kg)				
	30m	40m	50m	60m	75m	
PUZ-ZM71	2.80	0.40	0.80	-	-	
PUZ-ZM100/125/140	4.00	0.40	0.80	1.20	1.80	

Refrigerant Piping

CAPACITY	BETWEEN INDOOR AND OUTDOOR UNITS		PIPE SIZE OD (mm – in.)	THICKNESS (mm)
	MAX. HEIGHT DIFFERENCE (m)	MAX. PIPING LENGTH (m)		
SUZ-M50	30	30	Liquid: Ø 6.35 – 1/4"	t 0.8
			Gas: Ø 12.7 – 1/2"	t 0.8
SUZ-M60	30	30	Liquid: Ø 6.35 – 1/4"	t 0.8
			Gas: Ø 15.88 – 5/8"	t 1.0
SUZ-M71	30	30	Liquid: Ø 9.52 – 3/8"	t 0.8
			Gas: Ø 15.88 – 5/8"	t 1.0
PUZ-ZM71	30	50	Liquid: Ø 9.52 – 3/8"	t 0.8
			Gas: Ø 15.88 – 5/8"	t 1.0
PUZ-ZM100/125/140	30	75	Liquid: Ø 9.52 – 3/8"	t 0.8
			Gas: Ø 15.88 – 5/8"	t 1.0

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