

PLA-ZRP35/50/60/71/100/125/140BA  
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# PLA SERIES

A complete line-up including deluxe units that offer added energy savings. The incorporation of wide air-outlet and the "i-see Sensor" enhances airflow distribution control, achieving an enhanced level of comfort throughout the room. The synergy of higher energy efficiency and more comfortable room environment results in the utmost user satisfaction.



## Deluxe 4-way Cassette Line-up

For users seeking even further energy-savings, Mitsubishi Electric offers complete deluxe units (PLA-ZRP) for the complete line-up of models in this series from 35–140. Compared to the standard models (PLA-RP), deluxe models provide additional energy-savings, contributing to a significant reduction in electricity costs.

### Line-up

Series	Model	35	50	60	71	100	125	140
Deluxe 4-way Cassette (PLA-ZRP)		●	●	●	●	●	●	●
		PLA-ZRP35BA	PLA-ZRP50BA	PLA-ZRP60BA	PLA-ZRP71BA	PLA-ZRP100BA	PLA-ZRP125BA	PLA-ZRP140BA
Standard 4-way Cassette (PLA-RP)		●	●	●	●	●	●	●
		PLA-RP35BA	PLA-RP50BA	PLA-RP60BA	PLA-RP71BA	PLA-RP100BA	PLA-RP125BA	PLA-RP140BA2

### Key Technologies for Higher Energy Efficiency

#### New Heat Exchanger Design

Heat exchanger fin size and pitch have been changed, raising energy efficiency.

#### Pre-grooved Piping

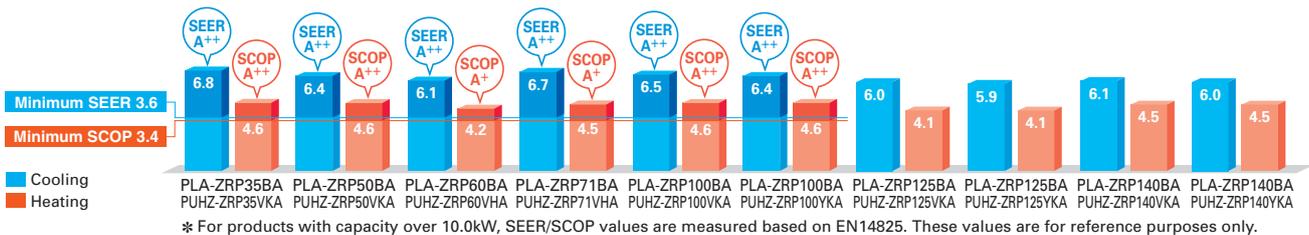
High-performance pre-grooved piping is utilised, increasing the heat exchange area.

### Indoor/Outdoor Unit Combinations



## "Rank A++/A+" Energy Savings Achieved for Deluxe 4-way Cassette

Our new deluxe 4-way cassette indoor units combined with newly designed Power Inverter outdoor units (PUHZ-ZRP) achieve industry-leading seasonal efficiency for both cooling and heating: all rank A++ for cooling and A+ or higher for heating.



## Great Reduction in Annual Electricity Power Consumption

Industry-leading energy efficiency has been achieved through newly designed Power Inverter outdoor units combined with new highly efficient deluxe 4-way cassettes. Annual power consumption for cooling and heating are significantly reduced.



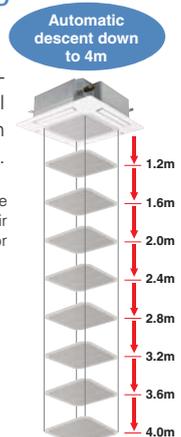
## Automatic Grille Lowering Function (PLP-6BAJ)

An automatic grille lowering function is available for easy filter maintenance. Special wired and wireless remote controllers can be used to lower the grille for maintenance.

The grille can be lowered a maximum of 4m from the ceiling in 8 steps, thus enabling easy cleaning of the air filter. Cleaning of the filter is an important factor for saving energy.

Grille Elevation Remote Controller (comes with the automatic elevation panel)

Wired Remote Controller

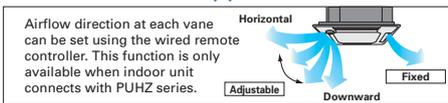


# Optimum Airflow

## Individual Vane Settings

Optimum airflow settings provide maximum comfort throughout the room.

In addition to the selection of variable airflow patterns (i.e., 2-, 3- or 4-way), this function allows the independent selection of vertical airflow levels for each vane, thereby maintaining a comfortable room environment with even temperature distribution.



**72 airflow patterns**

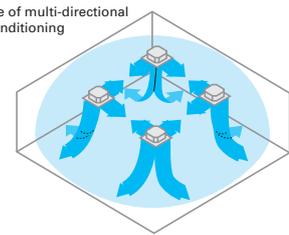
## Wide Airflow

Wide-angle outlets distribute airflow to all corners of the room.

The outlets are larger than those of previous models and the shape has been improved for better wide-angle ventilation.



Image of multi-directional air conditioning



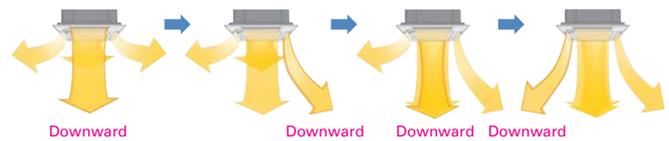
**Individual Vane Setting + Wide Airflow**

The combination of individual vane setting, which enables the optimal outlet setting for each room layout, and the wide airflow function works to ensure even temperature distribution throughout each room. The result is uniformly comfortable air conditioning.

# Wave Airflow – Thoroughly warming all corners of the room!

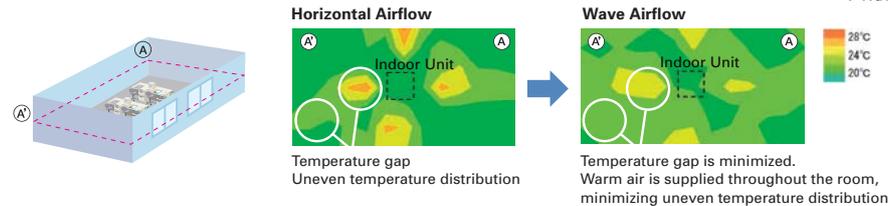
## Wave Airflow Operation

“Wave Airflow” is essentially the advanced control of the vanes directing the airflow from the unit. Blown-air is repeatedly dispersed from the unit in horizontal and downward directions at time-lagged intervals to provide uniform heating throughout the room.



\* Wave Airflow is possible only when using the heating mode

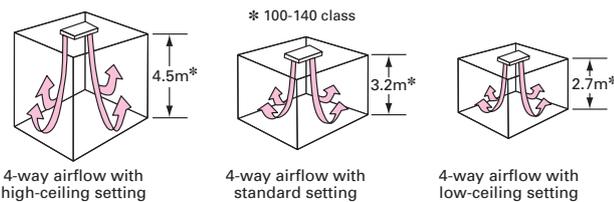
## Thermograph of Wave Control Effect



Temperature distribution comparison approximately 20min after turning on a PLA-RP71BA 4-Way ceiling cassette. The measurement point for comparison is a plane 1.2m above the floor.

# Equipped with High- and Low-ceiling Modes

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 optimize the breezy sensation felt throughout the room.



## Airflow Range

Model	35-71 class			100-140 class		
	High-ceiling setting	Standard setting	Low-ceiling setting	High-ceiling setting	Standard setting	Low-ceiling setting
4-Way	3.5m	2.4m	2.5m	4.5m	3.2m	2.7m
3-Way	3.5m	3.0m	2.7m	4.5m	3.6m	3.0m
2-Way	3.5m	3.3m	3.0m	4.5m	4.0m	3.3m

# Horizontal Airflow

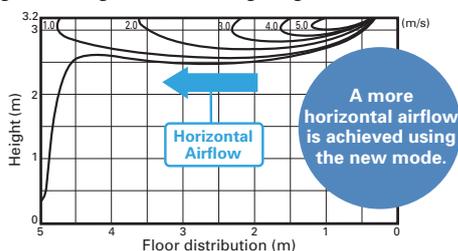
A “Horizontal Airflow” function has been added to reduce drafty-feeling distribution. Horizontal Airflow prevents cold drafts from striking the body directly, thereby keeping the body from becoming over-chilled.



## [Airflow Distribution]

PLA-RP125BA

Flow angle, cooling at 20°C (ceiling height 3.2m)



\* Smudge spots on the ceiling may form where the airflow is not evenly distributed.

# Automatic Air-speed Adjustment

An automatic air-speed mode that adjusts airflow speed automatically is adopted to maintain comfortable room conditions at all times. 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 stable comfortable heating/cooling operation.



# DOES HAVING COLD FEET BOTHER YOU?

The "i-see Sensor" is the answer to your problems!



i-see Sensor



**Heating Mode**

Warm air rises to the ceiling!

In heating mode, the upper body gets warm but legs and feet remain chilly.

Even though the temperature on the remote controller is at a preset temperature, the temperature at floor level remains cold. As a result, there's no feeling of getting warmer.



**Cooling Mode**

Legs and feet feel cold!

When cooling, the legs and feet get too cold, chilling the entire body.

At the beginning of operation, the room is nice and cool; but before long the temperature at floor level drops, causing the feeling of being too cold.

## "i-see Sensor" temperature-sensing technology improves energy efficiency and enhances room comfort

The "i-see Sensor" is an innovative Mitsubishi Electric technology that uses a radiation-based sensor to monitor temperature throughout an entire room. When connected to the air conditioner control panel, i-see Sensor works to maximize room comfort.

### i-see Sensor Panel



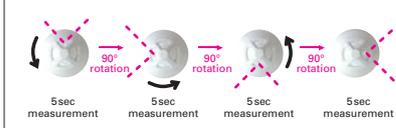
or

### Corner Panel Only (Option)



### i-see Sensor Operation

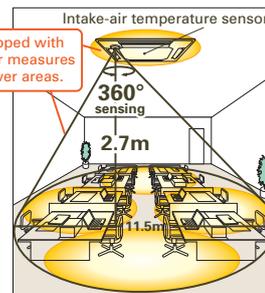
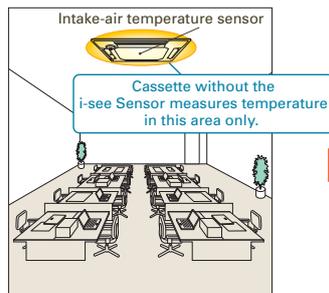
The i-see Sensor rotates 90° at intervals of 5 sec, accurately measuring the temperature throughout the room (covering entire floor space).



## A comfortable room environment cannot be maintained by monitoring only the temperature at the ceiling.

### Without "i-see Sensor"

Only intake-air temperature at the ceiling was measured, tending to overlook uneven temperature distribution at floor level.



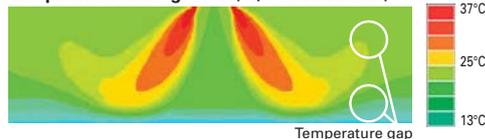
### Equipped with 4-Way Ceiling "i-see Sensor"

Both the floor temperature and intake-air temperature are measured to provide operation that creates a comfortable room environment from ceiling to floor.

### In Heating Mode

### When you want the temperature felt to be 20°

#### Temperature setting: 20°C (w/o i-see Sensor)

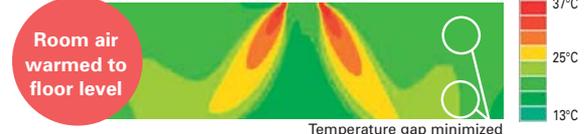


Temperature felt: 17°C (floor level 14°C)

Warm air rises to the ceiling. This causes poor heating at floor level, leaving legs and feet feeling cold.

#### Temperature setting: 20°C

#### (w/ i-see Sensor + Automatic Air-speed Adjustment)



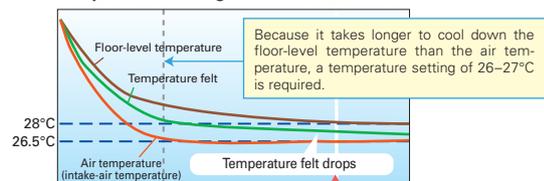
Temperature felt: 20°C (floor level 20°C)

The i-see Sensor detects the temperature at the floor while the Automatic Air-speed Adjustment eliminates uneven temperature distribution by thoroughly warming the air down to the floor.

### In Cooling Mode

### When you want the temperature felt to be 28°C

#### Temperature setting: 26-27°C (w/o i-see Sensor)



At start-up (approx. 30 min) After specified time

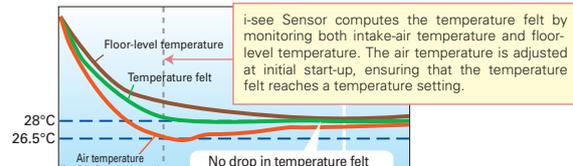


Temperature felt: 26.5°C

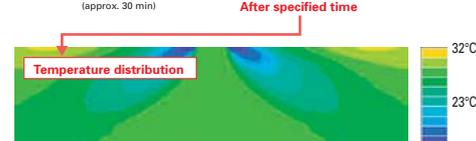
The temperature felt drops according to the drop in floor-level temperature. If the floor-level temperature is not monitored during long cooling operation, the temperature felt becomes chilly.

#### Temperature setting: 28°C

#### (w/ i-see Sensor + Automatic Air-speed Adjustment)



At start-up (approx. 30 min) After specified time



Temperature Felt: 28°C

Air temperature is adjusted according to the floor temperature to keep the temperature felt at 28°C.

Comfortable without excess chilliness