PLFY-M VEM6-E

NEW

INDOOR UNITS - 4-way cassette 900x900



CITY MULTI

Ideal for...

New design of 4-way cassette VEM model suits most commercial applications thanks to its elegance and syle. Its peculiar features are horizontal flow function, individually settable vanes and possibility to install 3D i-see sensor for top environment comfort control.

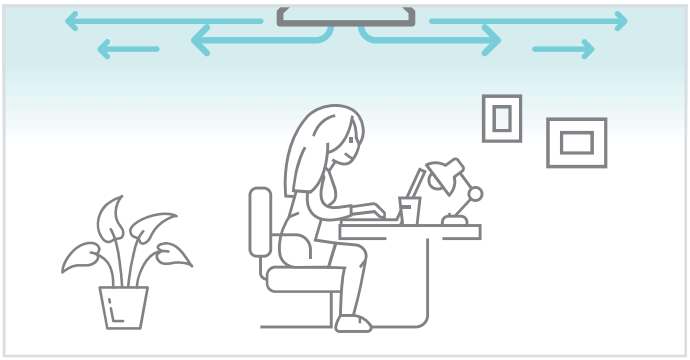
3D i-see sensor: Temperature sensor

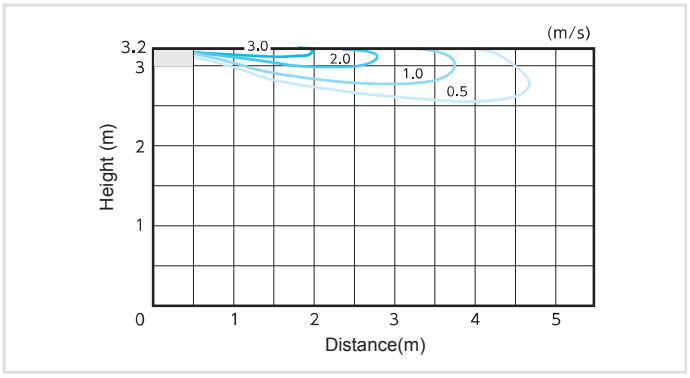
3D i-see sensor is able to detect temperature distribution inside the room, making it possible to direct airflow to those areas which generally receive less air, making them more uncomfortable (too cold or too hot) for users.



Horizontal flow

This new indoor unit is capable of handling five vane positions, making it possible to achieve horizontal flow that spreads across the ceiling, maximizing the Coanda effect. This allows to avoid, if needed, direct airflow to users in the room, which can sometimes be uncomfortable.







Key Technologies

DC Inverter	Pure White	AUTO VANE		ACO	Ultra Silent	Fresh-air Intake	Long life	Check!	
SWING		Drain Lift Up	Self Diagnosis	Auto Restart	Offset -4°	Plasma Quad Connect			

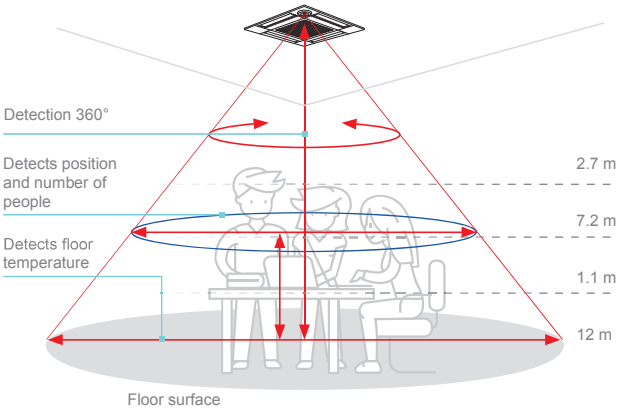
3D i-see sensor: Direct/Indirect flow function

Optional 3D i-see sensor allows to detect and count users in the environment and their position. User can set either Direct or Indirect flow to occupied areas, with single control on four vanes.



3D i-see sensor: Energy saving

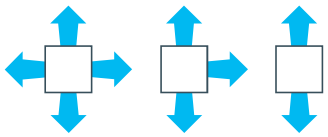
3D i-see sensor features allow to optimize comfort conditions and at the same time achieve energy saving. Thanks to the occupancy sensor the unit is able to automatically handle and reduce power output accordingly to users actually being present in the room or in certain areas of it. This feature is particularly helpful in those environments in which occupancy varies significantly during the day.



Optimum airflow

2-, 3-, 4-way airflow pattern selection
Three outlet options are available--bidirectional, three-way, and four-way--to suit different types of installation. Select, for example, the four-way pattern for installation in the center of the room and three-way pattern for installation in the corner.

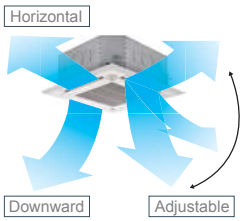
2-, 3-, 4-WAY AIRFLOW PATTERN SELECTION



* Optional shuffle placement is required for 2- and 3-way patterns.

Individual vane angle settings
Vane direction can be changed or fixed from the remote controller to direct the supply air at or away from objects or occupants in the room.

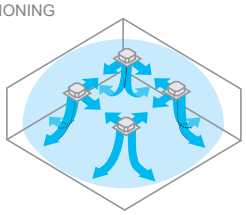
The airflow direction of each vane can be set using the wired remote controller or wireless remote controller (PAR-SL101A-E).



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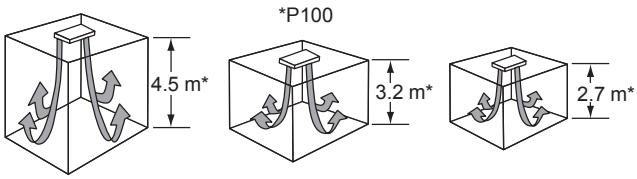
2-, 3-, 4-way airflow pattern selection
+
Individual vane angle settings
Combinations with individual vane settings enable an optimal outlet setting for each room layout to ensure even temperature distribution throughout each room. The result is uniformly comfortable air conditioning.

MULTI-DIRECTIONAL AIR CONDITIONING



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 the height of the room. Being able to choose the optimum airflow volume helps optimize the breezy sensation felt throughout the room.



4-way airflow with high-ceiling setting | 4-way airflow with standard setting | 4-way airflow with low-ceiling setting

Airflow range

Model / Airflow pattern	M20-M80			M100/M125		
	High-ceiling setting	Standard setting	**Low-ceiling setting**	**High-ceiling setting**	Standard setting	**Low-ceiling setting**
4-way	**3.5 m**	2.7 m	**2.5 m**	**4.5 m**	3.2 m	**2.7 m**
3-way	**3.5 m**	3.0 m	**2.7 m**	**4.5 m**	3.6 m	**3.0 m**
2-way	**3.5 m**	3.3 m	**3.0 m**	**4.5 m**	4.0 m	**3.3 m**

Automatic air-speed adjustment

An automatic air-speed mode automatically adjusts airflow speed 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 the heating/cooling operation, airflow is set to high speed to quickly heat/cool the room.

When the room temperature reaches the desired setting, the airflow speed is automatically decreased for stable and comfortable heating/cooling operation.

Panel and control

The unit is supplied with PLP-6EA panel which does not include signal receiver. This component (PAR-SE9FA-E) can be installed as a corner accessory, as well as 3D i-See Sensor (PAC-SE1ME-E). The unit is compatible with all wired MA and ME remote controls and, if equipped with signal receiver, wireless remote controls. New PAR-SL101A-E is compatible with PLFY-M VEM, and presents numerous new features, such as weekly timer, backlit display, 0,5°C temperature setting and monitoring, as well as functions for 3D i-see sensor (optional).



Wireless signal receivee (PAR-SE9FA-E)



3D i-see sensor (PAC-SE1ME-E)

Connectable to Plasma Quad Connect
The optional Plasma Quad Connect PAC-SK51FT-E can be installed on the indoor units.



* Plasma Quad Connect (PAC-SK51FT-E) cannot be used with Auto elevation panel (PLP-6EAJ, PLP-6EAJE), Multi functional casement (PAC-SJ41TM-E) and High-efficiency filter element (PAC-SH59KF-E).

Simplified installation

Thanks to new temporary panel supports maintenance and installation operation are now easier for field technicians.





Also, panel weight has been reduced by 20% thanks to a new design.



A simple loosening of support screws allows the removal of the control box and corner accessories.





Electrical box wiring
After reviewing the power supply terminal position in the electrical box, the structure has been redesigned to improve connectivity. This makes complex wiring work easier.

CONVENTIONAL MODEL



LATEST MODEL

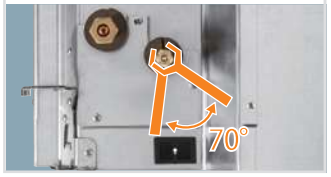


Increased space for plumbing work
The top and bottom positions of the liquid and gas pipes have been reversed to allow the gas pipe work, which requires more effort, to be completed first. Further, through structural innovations related to the space around the pipes, the area for the spanner has been increased, thus improving liquid piping work and enabling it to be completed smoothly.

CONVENTIONAL MODEL



LATEST MODEL



Technical specifications

MODEL			PLFY-M20VEM6-E	PLFY-M25VEM6-E	PLFY-M32VEM6-E	PLFY-M40VEM6-E	PLFY-M50VEM6-E
Power			1-phase 220–240V 50Hz, 1-phase 220V 60Hz				
Capacity in cooling mode*1		kW	2.2	2.8	3.6	4.5	5.6
		Btu/h	7500	9600	12300	15400	19100
Capacity in heating mode*1		kW	2.5	3.2	4.0	5.0	6.3
		Btu/h	8500	10900	13600	17100	21500
Power consumption	Cooling	kW	0.03	0.03	0.03	0.03	0.06
	Heating	kW	0.03	0.03	0.03	0.03	0.07
Current	Cooling	A	0.31	0.31	0.32	0.32	0.52
	Heating	A	0.24	0.24	0.25	0.25	0.60
External finish(Munsel No.)	Unit		Galvanized steel plate				
	Grille		MUNSELL (1.0Y 9.2/0.2)				
Dimensions (HxLxW)	Unit	mm	258x840x840				298 x 840 x 840
	Grille	mm	40x950x950				
Net weight	Unit	kg	19	19	19	19	24
	Grille	kg	5	5	5	5	5
Heat exchanger			Cross fin (Aluminium fin and copper tube)				
Fan	Type x Quantity		Turbo fan x 1				
	Air flow*2	m^3/min	12-13-14-15	12-13-14-15	13-14-15-16	13-14-15-17	16 - 17 - 18 - 25 (Cooling) 16 - 17 - 18 - 28 (Heating)
		l/s	200-217-233-250	200-217-233-250	217-233-250-267	217-233-250-283	267 - 283 - 300 - 417 (Cooling) 267 - 283 - 300 - 467 (Heating)
	Static ext.l pressure	Pa	0	0	0	0	0
Motor	Type		DC Motor				
	Power output	kW	0.050	0.050	0.050	0.050	0.120
Air filter			Polypropilene honeycomb fabric				
Refrigerant pipe diameter	Gas (swaged)	mm	Ø 12.7	Ø 12.7	Ø 12.7	Ø 12.7	Ø 12.7
	Liquid (swaged)	mm	Ø 6.35	Ø 6.35	Ø 6.35	Ø 6.35	Ø 6.35
Local drain pipe diameter	Grille		O.D.32	O.D.32	O.D.32	O.D.32	O.D.32
Sound pressure*2*3		dB(A)	24-26-27-29	24-26-27-29	26-27-29-31	26-27-29-31	27 - 29 - 31 - 38(Cooling) 27 - 29 - 31 - 41(Heating)

*1 Cooling/Heating capacity is the maximum value measured in the following conditions.
Cooling: indoor 27°C (81°F) DB/19°C (66°F) WB, outdoor 35°C (95°F) BS. Heating: indoor 20°C (68°F) DB, outdoor 7°C (45°F) DB/6°C (43°F) WB.
*2 High-mid1-mid2-low setting
*3 Measured in anechoic chamber with 230V power supply.

Optional parts	DESCRIPTION
PAC-SK51FT-E	Plasma Quad Connect
PAC-SE1ME-E	Corner 3D I-see Sensor for PLFY-M VEM-E
PLP-6EALM	Panel with wireless remote controller