

Ceiling cassette type

4-way airflow type

PLFY-M VEM-E **R32** **R410A**

PLFY-M VEM6-E **R32** **R410A**

• Technologies and functions P.160



3D i-see Sensor and versatile airflow variation provide comfort to all corners of the room.

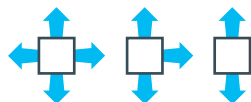
Optimum airflow

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

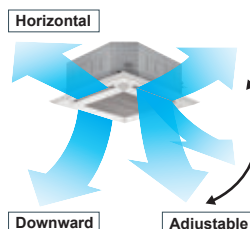
* Optional shuffle placement is required for 2- and 3-way patterns.



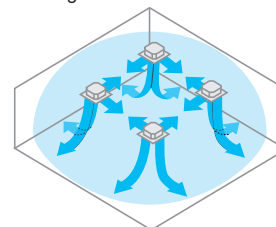
Individual vane angle settings

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).



Multi-directional air conditioning



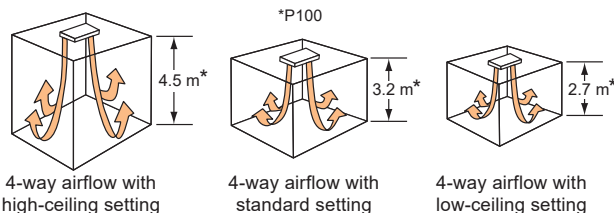
2-, 3-, 4-way airflow pattern selection

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.

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.

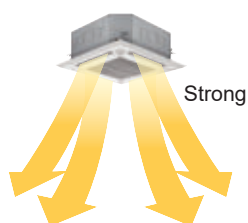


Airflow range

Model	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.



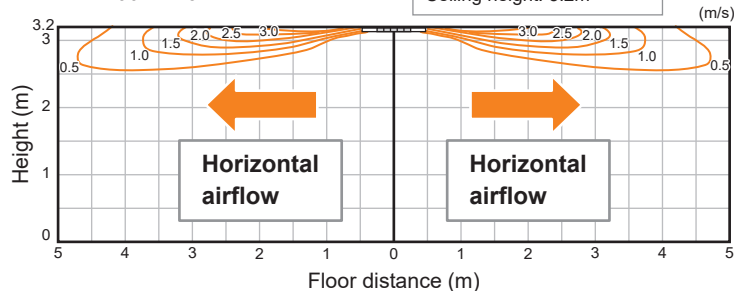
When the room temperature reaches the desired setting, the airflow speed is automatically decreased for stable and comfortable heating/cooling operation.

Horizontal airflow

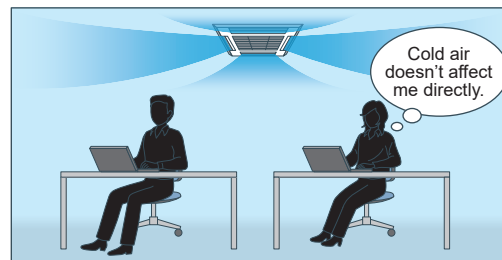
Supply air is horizontally fed into the room to reduce the cold draft feeling. This airflow is ideal for offices and restaurants.

• Airflow distribution

PLFY-M100VEM6-E



• Horizontal airflow



Easy installation

Temporary hanging hook

The structure of the panel has been redesigned and is now equipped with a temporary hanging hook.

This improves work efficiency during panel installation.



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



No need to remove screws

Installation is possible without removing the screws for the corner panel and the control box; they simply need to be loosened. This lowers the risk of losing screws.

• Corner panel



• Control box cover



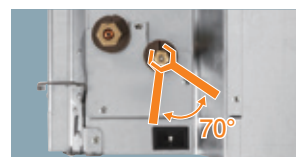
Increased space for plumbing work

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

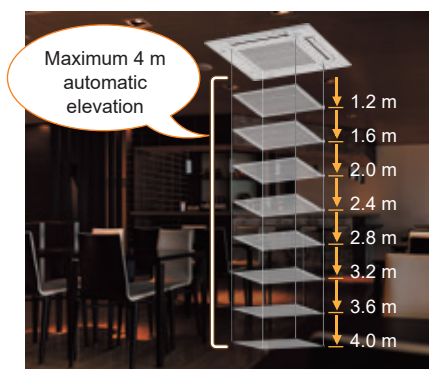


• Latest model



Easy cleaning

The automatic elevation panel makes cleaning the filter easy, even with high ceilings.



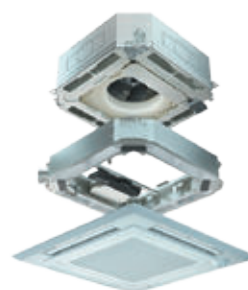
IT terminal

An IT terminal is available. Contact your local distributor for details.

Connectable to *Plasma Quad Connect**

The optional Plasma Quad Connect PAC-SK51FT-E can be installed on the indoor units (PLFY-M VEM6-E only).

* 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).



Ceiling cassette type **R32** **R410A**

4-way airflow type **PLFY-M VEM-E**

			PLFY-M20VEM-E	PLFY-M25VEM-E	PLFY-M32VEM-E	PLFY-M40VEM-E	PLFY-M50VEM-E	PLFY-M63VEM-E
Power source			1-phase 220~240V 50Hz, 1-phase 220V 60Hz					
Cooling capacity (Nominal)	*1	kW	2.2	2.8	3.6	4.5	5.6	7.1
	*1	BTU/h	7,500	9,600	12,300	15,400	19,100	24,200
Heating capacity (Nominal)	*2	kW	2.5	3.2	4.0	5.0	6.3	8.0
	*2	BTU/h	8,500	10,900	13,600	17,100	21,500	27,300
External finish								
External dimension HxWxD		mm	258 x 840 x 840					
		in.	10-3/16 x 33-3/32 x 33-3/32					
Net weight		kg (lbs)	19 (42)	19 (42)	19 (42)	19 (42)	19 (42)	21 (46)
Grille	model		PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA
	External finish		MUNSELL (1.0Y 9.2/0.2)					
	Dimension H x W x D	mm in.	40 x 950 x 950 1-9/16 x 37-13/32 x 37-13/32					
Heat exchanger		kg (lbs)	5 (11)					
FAN	Type x Quantity		Cross fin (Aluminum fin and copper tube)					
	External static press.	Pa mmH ₂ O	0					
	Motor Type		DC motor					
Driving mechanism	Motor output	kW	0.050	0.050	0.050	0.050	0.050	0.050
	Air flow rate (Low-Mid2-Mid1-High)	m ³ /min L/s cfm	12 - 13 - 14 - 15 200 - 217 - 233 - 250 424 - 459 - 494 - 530	12 - 13 - 14 - 15 200 - 217 - 233 - 250 424 - 459 - 494 - 530	13 - 14 - 15 - 16 217 - 233 - 250 - 267 459 - 494 - 530 - 565	13 - 14 - 15 - 17 217 - 233 - 250 - 283 459 - 494 - 530 - 600	13 - 14 - 16 - 18 217 - 233 - 267 - 300 459 - 494 - 565 - 636	14 - 15 - 16 - 18 233 - 250 - 267 - 300 494 - 530 - 565 - 636
	Sound pressure level (Low-Mid2-Mid1-High) (measured in anechoic room)	dB<A>	24 - 26 - 27 - 29	24 - 26 - 27 - 29	26 - 27 - 29 - 31	26 - 27 - 29 - 31	26 - 27 - 29 - 31	28 - 29 - 30 - 32
Air filter			PP honeycomb					
	Refrigerant piping diameter	Liquid Gas	mm (in.) mm (in.)	mm (in.) mm (in.)	mm (in.) mm (in.)	mm (in.) mm (in.)	mm (in.) mm (in.)	mm (in.) mm (in.)
	Field drain pipe size		O.D. ø32 (1-1/4) (VP-25)					

			PLFY-M80VEM-E	PLFY-M100VEM-E	PLFY-M125VEM-E
Power source			1-phase 220-240V 50Hz, 1-phase 220V 60Hz		
Cooling capacity (Nominal)	*1	kW	9.0	11.2	14.0
	*1	BTU/h	30,700	38,200	47,800
Heating capacity (Nominal)	*2	kW	10.0	12.5	16.0
	*2	BTU/h	34,100	42,700	54,600
External finish					
External dimension HxWxD		mm	258 x 840 x 840	298 x 840 x 840	298 x 840 x 840
		in.	10-3/16 x 33-3/32 x 33-3/32	11-3/4 x 33-3/32 x 33-3/32	11-3/4 x 33-3/32 x 33-3/32
Net weight		kg (lbs)	21 (46)	24 (53)	24 (53)
Grille	model		PLP-6EA	PLP-6EA	PLP-6EA
	External finish		MUNSELL (1.0Y 9.2/0.2)		
	Dimension H x W x D	mm in.	40 x 950 x 950 1-9/16 x 37-13/32 x 37-13/32		
Heat exchanger		kg (lbs)	5 (11)		
FAN	Type x Quantity		Cross fin (Aluminum fin and copper tube)		
	External static press.	Pa mmH ₂ O	0		
	Motor Type		DC motor		
Driving mechanism	Motor output	kW	0.050	0.120	0.120
	Air flow rate (Low-Mid2-Mid1-High)	m ³ /min L/s cfm	14 - 17 - 20 - 23 233 - 283 - 333 - 383 494 - 600 - 706 - 812	20 - 23 - 26 - 29 333 - 383 - 433 - 483 706 - 812 - 918 - 1024	22 - 26 - 30 - 35 367 - 433 - 500 - 583 777 - 918 - 1060 - 1236
	Sound pressure level (Low-Mid2-Mid1-High) (measured in anechoic room)	dB<A>	28 - 31 - 34 - 37	34 - 37 - 39 - 41	35 - 39 - 42 - 45
Air filter			PP honeycomb		
	Refrigerant piping diameter	Liquid Gas	mm (in.) mm (in.)	mm (in.) mm (in.)	mm (in.) mm (in.)
	Field drain pipe size		O.D. ø32 (1-1/4) (VP-25)		

Notes:

- *1 Nominal cooling conditions
Indoor:27°CDB/19°CWB (81°FDB/66°F WB), Outdoor:35°CDB (95°FDB)
Pipe length:7.5m (24-9/16ft.), Level difference:0m (0ft.)
- *2 Nominal heating conditions
Indoor:20°CDB (68°FDB), Outdoor:7°CDB/6°CWB (45°FDB/43°F WB)
Pipe length:7.5m (24-9/16ft.), Level difference:0m (0ft.)
- *3 Nominal conditions *1 and *2 are subject to JIS B8615-1.

- * R32 is flammable, and certain restrictions apply to the installation of units.
For detail, refer to the section in the Databook on installation restrictions.
- * When connecting the indoor units of M20 or M25, the maximum connectable number of indoor units is limited. Please refer to the table for details.

		Outdoor unit	(E)M200	(E)M250	(E)M300
Connectable indoor units	Not including M20 or M25		1-20	1-25	1-30
	Including M20 or M25		1-8	1-10	1-12

Lineup & Functions

Y-Series

R2-Series

ZUBADAN
-Series

S-Series

BC Controllers

Ceiling
cassette typeCeiling
concealed typeCeiling
suspended typeWall-mounted
typeFloor standing
type

Functions

LOSSNAY
SystemRemote
ControllerHot Water
Solution

Ceiling cassette type **R32** **R410A**

4-way airflow type **PLFY-M VEM6-E**

		PLFY-M20VEM6-E	PLFY-M25VEM6-E	PLFY-M32VEM6-E	PLFY-M40VEM6-E	PLFY-M50VEM6-E
Power source		1-phase 220-240V 50Hz, 1-phase 220V 60Hz				
Cooling capacity (Nominal)	*1 kW	2.2	2.8	3.6	4.5	5.6
	*1 BTU/h	7,500	9,600	12,300	15,400	19,100
	Power input kW	0.03	0.03	0.03	0.03	0.06
Heating capacity (Nominal)	*2 kW	2.5	3.2	4.0	5.0	6.3
	*2 BTU/h	8,500	10,900	13,600	17,100	21,500
	Power input kW	0.03	0.03	0.03	0.03	0.07
External finish		Galvanized steel sheet				
External dimension	mm	258 x 840 x 840				
	in.	10-3/16 x 33-3/32 x 33-3/32				
Net weight	kg (lbs)	19 (42)	19 (42)	19 (42)	19 (42)	24 (53)
Grille	model	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA
	External finish	MUNSELL (1.0Y 9.2/0.2)				
	Dimension	40 x 950 x 950				
	H x W x D	1-9/16 x 37-13/32 x 37-13/32				
	Net weight	5 (11)				
Heat exchanger		Cross fin (Aluminum fin and copper tube)				
FAN	Type x Quantity	Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	Turbo fan x 1
	External static press.	Pa	0	0	0	0
		mmH ₂ O	0	0	0	0
	Motor Type	DC motor				
	Motor output	kW	0.050	0.050	0.050	0.120
	Driving mechanism	Direct-drive				
	Air flow rate (Low-Mid2-Mid1-High)	m ³ /min	12 - 13 - 14 - 15	12 - 13 - 14 - 15	13 - 14 - 15 - 16	13 - 14 - 15 - 17
		L/s	200 - 217 - 233 - 250	200 - 217 - 233 - 250	217 - 233 - 250 - 267	217 - 233 - 250 - 283
		cfm	424 - 459 - 494 - 530	424 - 459 - 494 - 530	459 - 494 - 530 - 565	459 - 494 - 530 - 600
	Sound pressure level (Low-Mid2-Mid1-High) (measured in anechoic room)	dB<A>	24 - 26 - 27 - 29	24 - 26 - 27 - 29	26 - 27 - 29 - 31	26 - 27 - 29 - 31
Air filter		PP honeycomb				
Refrigerant piping diameter	Liquid	mm (in.)	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare	ø6.35 (ø1/4) Flare
	Gas	mm (in.)	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare	ø12.7 (ø1/2) Flare
Field drain pipe size		mm (in.)	O.D. ø32 (1-1/4) (VP-25)			

		PLFY-M63VEM6-E	PLFY-M71VEM6-E	PLFY-M80VEM6-E	PLFY-M100VEM6-E	PLFY-M125VEM6-E
Power source		1-phase 220-240V 50Hz, 1-phase 220V 60Hz				
Cooling capacity (Nominal)	*1 kW	7.1	8.0	9.0	11.2	14.0
	*1 BTU/h	24,200	27,300	30,700	38,200	47,800
	Power input kW	0.09	0.12	0.12	0.12	0.12
Heating capacity (Nominal)	*2 kW	8.0	9.0	10.0	12.5	16.0
	*2 BTU/h	27,300	30,700	34,100	42,700	54,600
	Power input kW	0.12	0.12	0.12	0.12	0.12
External finish		Galvanized steel sheet				
External dimension	mm	298 x 840 x 840				
	in.	11-3/4 x 33-3/32 x 33-3/32				
Net weight	kg (lbs)	24 (53)	27 (60)	27 (60)	27 (60)	27 (60)
Grille	model	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA	PLP-6EA
	External finish	MUNSELL (1.0Y 9.2/0.2)				
	Dimension	40 x 950 x 950				
	H x W x D	1-9/16 x 37-13/32 x 37-13/32				
	Net weight	5 (11)				
Heat exchanger		Cross fin (Aluminum fin and copper tube)				
FAN	Type x Quantity	Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	Turbo fan x 1	Turbo fan x 1
	External static press.	Pa	0	0	0	0
		mmH ₂ O	0	0	0	0
	Motor Type	DC motor				
	Motor output	kW	0.120	0.120	0.120	0.120
	Driving mechanism	Direct-drive				
	Air flow rate (Low-Mid2-Mid1-High)	m ³ /min	16 - 18 - 20 - 32 (Cooling) 16 - 18 - 20 - 35 (Heating)	16 - 18 - 20 - 35	16 - 20 - 23 - 35	17 - 22 - 28 - 35
		L/s	267 - 300 - 333 - 533 (Cooling) 267 - 300 - 333 - 583 (Heating)	267 - 300 - 333 - 583	267 - 333 - 383 - 583	283 - 367 - 467 - 583
		cfm	565 - 636 - 706 - 1130 (Cooling) 565 - 636 - 706 - 1236 (Heating)	565 - 636 - 706 - 1236	565 - 706 - 812 - 1236	600 - 777 - 989 - 1236
	Sound pressure level (Low-Mid2-Mid1-High) (measured in anechoic room)	dB<A>	27 - 30 - 32 - 43 (Cooling) 27 - 30 - 32 - 46 (Heating)	28 - 31 - 35 - 46	28 - 33 - 37 - 46	29 - 35 - 41 - 46
Air filter		PP honeycomb				
Refrigerant piping diameter	Liquid	mm (in.)	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare	ø9.52 (ø3/8) Flare
	Gas	mm (in.)	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare	ø15.88 (ø5/8) Flare
Field drain pipe size		mm (in.)	O.D. ø32 (1-1/4) (VP-25)			

Notes:

- *1 Nominal cooling conditions
Indoor: 27°C DB/19°C WB (81°F DB/66°F WB), Outdoor: 35°C DB (95°F DB)
Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
- *2 Nominal heating conditions
Indoor: 20°C DB (68°F DB), Outdoor: 7°C DB/6°C WB (45°F DB/43°F WB)
Pipe length: 7.5m (24-9/16ft.), Level difference: 0m (0ft.)
- *3 Nominal conditions *1 and *2 are subject to JIS B8615-1.

- * R32 is flammable, and certain restrictions apply to the installation of units.
For detail, refer to the section in the Databook on installation restrictions.
- * When connecting the indoor units of M20 or M25, the maximum connectable number of indoor units is limited. Please refer to the table for details.

		Outdoor unit	(E)M200	(E)M250	(E)M300
Connectable indoor units	Not including M20 or M25		1-20	1-25	1-30
	Including M20 or M25		1-8	1-10	1-12

Ceiling cassette type **R32** **R410A**

4-way airflow type

Optional parts

- For PLFY-M VEM-E **R32** **R410A**

Description	Model	Applicable capacity
Air outlet shutter plate	PAC-SJ37SP-E	M20, 25, 32, 40, 50, 63, 80, 100, 125
Multi-function casement	PAC-SJ41TM-E	
High efficiency filter element	PAC-SH59KF-E	
Space panel	PAC-SJ65AS-E	
Duct flange for fresh air intake	PAC-SH65OF-E	

- For PLFY-M VEM6-E **R32** **R410A**

Description	Model	Applicable capacity
Air outlet shutter plate	PAC-SJ37SP-E	M20, 25, 32, 40, 50, 63, 71, 80, 100, 125
Multi-function casement	PAC-SJ41TM-E	
High efficiency filter element	PAC-SH59KF-E	
Space panel	PAC-SJ65AS-E	
Duct flange for fresh air intake	PAC-SH65OF-E	
Plasma quad connect	PAC-SK51FT-E	

Panel & Corner panel

		With signal Receiver	With 3D i-see Sensor	With New Wireless Remote Controller	With Auto Elevation
Panel	PLP-6EA				
	PLP-6EAL	●			
	PLP-6EAE		●		
	PLP-6EAL E	●	●		
	PLP-6EAJ	●			●
	PLP-6EAJE	●	●		●
	PLP-6EALM2	●		●	
	PLP-6EALME2	●	●	●	
Corner panel	PAR-SE9FA-E	●			
	PAC-SE1ME-E		●		

Ceiling cassette type

4-way airflow type

PLFY-P VFM-E1 **R410A**

• Technologies and functions P.160

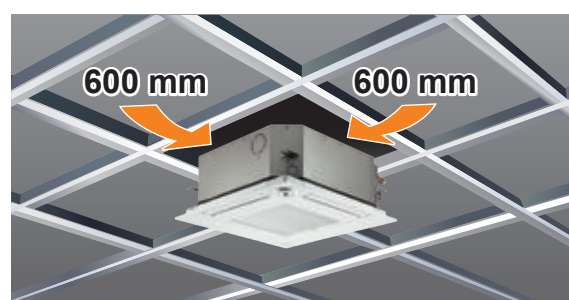


The compact size offers an ideal fit to grid system ceilings (600 mm × 600 mm) and provides 4-way airflows despite its size.

Beautiful square design

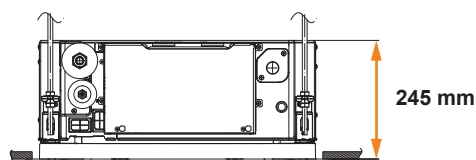
The square design matches 2 × 2 (600 mm × 600 mm) ceiling construction specifications.

Direct line-based square design enables designs of system ceiling to match the design of direct line type illuminations, thereby creating a beautiful space.



Above-ceiling height of 245 mm

The above-ceiling height of 245 mm is top class in the industry* and fits into narrow ceiling spaces.



* As of Aug 2015, among compact 4-way cassettes for system ceilings. (In-company survey)

Compact & light-weight design

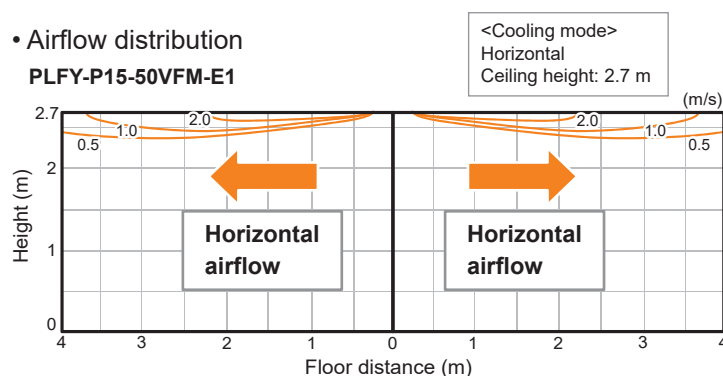
The panel weighs 3 kg, and the main unit weighs 14 kg (P15, P20 and P25 models) or 15 kg (P32, P40 and P50 models). The total weights are more than 7 kg lighter than the corresponding PLFY-M VEM6 model, allowing easy suspension.

Horizontal airflow

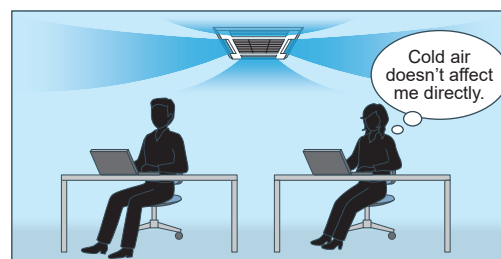
Supply air is horizontally fed into the room to reduce the cold draft feeling. This airflow is ideal for offices and restaurants.

• Airflow distribution

PLFY-P15-50VFM-E1



• Horizontal airflow



IT terminal

An IT terminal is available. Contact your local distributor for details.

Ceiling cassette type **R410A**

4-way airflow type **PLFY-P VFM-E1**

			PLFY-P15VFM-E1	PLFY-P20VFM-E1	PLFY-P25VFM-E1	PLFY-P32VFM-E1	PLFY-P40VFM-E1	PLFY-P50VFM-E1
Power source			1-phase 220-240V 50Hz / 220V 60Hz					
Cooling capacity	*1	kW	1.7	2.2	2.8	3.6	4.5	5.6
	*1	BTU/h	5,800	7,500	9,600	12,300	15,400	19,100
Heating capacity	*1	kW	1.9	2.5	3.2	4.0	5.0	6.3
	*1	BTU/h	6,500	8,500	10,900	13,600	17,100	21,500
Power consumption	Cooling	kW	0.02	0.02	0.02	0.02	0.03	0.04
	Heating	kW	0.02	0.02	0.02	0.02	0.03	0.04
Current	Cooling	A	0.19	0.21	0.22	0.23	0.28	0.40
	Heating	A	0.14	0.16	0.17	0.18	0.23	0.35
External finish (Munsell No.)	Unit	Galvanized steel sheet						
	Panel	MUNSELL (1.0Y 9.2/0.2)						
Dimension	Unit	mm(in.)	208 x 570 x 570 (8-1/4 x 22-1/2 x 22-1/2)					
H x W x D	Panel	mm(in.)	10 x 625 x 625 (3/8 x 24-5/8 x 24-5/8)					
Net weight	Unit	kg(lbs.)	14 (31)			15 (33)		
	Panel	kg(lbs.)	3 (7)					
Heat exchanger			Cross fin (Aluminum fin and copper tube)					
FAN	Type x Quantity		Turbo fan x 1					
	Airflow rate (Lo-Mid-Hi)	m³/min	6.5-7.5-8.0	6.5-7.5-8.5	6.5-8.0-9.0	7.0-8.0-9.5	7.5-9.0-11.0	9.0-11.0-13.0
		L/s	108-125-133	108-125-142	108-133-150	117-133-158	125-150-183	150-183-217
		cfm	230-265-282	230-265-300	230-282-318	247-282-335	265-318-388	318-388-459
External static press.		Pa	0					
Motor	Type	DC motor						
	Output	kW	0.05					
Air filter			PP Honeycomb fabric (long life type)					
Refrigerant pipe diameter	Gas (Flare)	mm(in.)	ø12.7 (ø1/2)					
	Liquid (Flare)	mm(in.)	ø6.35 (ø1/4)					
Field drain pipe diameter		mm(in.)	O.D. 32 (1-1/4) (PVC pipe VP-25 connectable)					
Sound pressure level (Lo-Mid-Hi)	*2	dB<A>	26-28-30	26-29-31	26-30-33	26-30-34	28-33-39	33-39-43

Notes:

*1 Cooling/Heating capacity indicates the maximum value at operation under the following condition.

Cooling : Indoor 27°C(81°F)DB/19°C(66°F)WB, Outdoor 35°C(95°F)DB

Heating : Indoor 20°C(68°F)DB, Outdoor 7°C(45°F)DB/6°C(43°F)WB

*2 It is measured in anechoic room at power source 230V.

Optional parts

Description	Model	Applicable models
i-see Sensor corner panel	PAC-SF1ME-E	P15, 20, 25, 32, 40, 50
Wireless signal receiver	PAR-SF9FA-E	
Anti-allergy enzyme filter	PAC-SK46KF-E	

Panel & Corner panel

		With signal Receiver	With 3D i-see Sensor	With New Wireless Remote Controller
Panel	SLP-2FA			
	SLP-2FAL	●		
	SLP-2FAE		●	
	SLP-2FALE	●	●	
	SLP-2FALM2	●		●
	SLP-2FALME2	●	●	●
Corner panel	PAR-SF9FA-E	●		
	PAC-SF1ME-E		●	