

P FAV Series

Standard Model

Fresh Air Intake Model

PFAV series

PFAV series is a large capacity floor standing indoor unit with high air flow operation especially designed for various types of large spaced application. The unit is an one-to-one connection unit meaning one indoor is connected to one outdoor unit. The lineup consists of two models; standard model and fresh air intake model, selectable depending on usage .

Adaptable to various applications

With wide range of airflow and static pressure, and piping length up to 165m, PFAV series can provide flexibility in design by adapting to various applications from shops, schools, and to factories.

	Air flow rate	External static pressure	
	m³/min	Pa	
PFAV-P250VM-E	90	30/90	
PFAV-P500VM-E	180	30/130	
PFAV-P750VM-E	260	100/310	
PFAV-P300VM-E-F	45	80	
PFAV-P600VM-E-F	90	110/170	
PFAV-P900VM-E-F	120	210/330	



Large capacity indoor unit

PFAV is a floor standing large capacity indoor unit, which reduces the piping and installation burdens, moreover makes maintenance easy.

OUTDOOR UNIT

Compact outdoor unit

PFAV series can only be connected to PUHY-YJM outdoor units. YJM series offers small footprint and lightweight inversely to high heating capacity, which allows easy transportation and saves installation space.



High Reliability

Outdoor heat exchangers have been treated with an anti-corrosion coating ensuring higher resistance against salt damage or air pollution.

*Standard:Anti-corrosion Blue Fin treatment & copper tube.

BS type (optional):salt-resistant cross fin & copper tube.

CONTROL

With the usage of MA controller (PAR-21MAA), which is embedded at the PFAV series, following energy saving functions can be provided.

Auto-OFF timer

Automatically switches off based on presetting time. (Preset time can be 30 min-4hours, per 30 min)

Standard setting 14°C 30°C Low temperature limit Temperature in this Prevents overcooling

Limiting set temperature range

By limiting lowest / highest temperature, it is possible to save energy when air conditioners are frequently used.

Locking function

To sustain optimal temperature, and prevent operational errors, buttons can be locked to only ON/OFF control.

PFAV Serie

PAR-21MAA



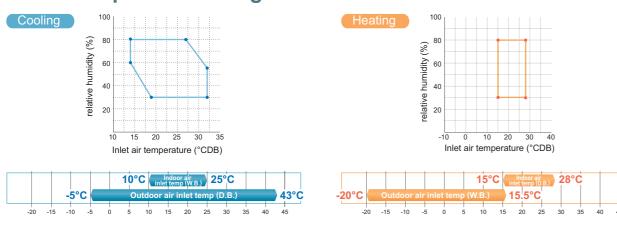
IStandard model

Features

Highly energy efficient with easy installation and maintenance, the standard PFAV model is suitable for working places where large capacity air conditioning is required.



Wide temperature range



By controlling the air volume of the outdoor unit fan, operation is available even when the outdoor temperature is -5°C for cooling and -20°C for heating.

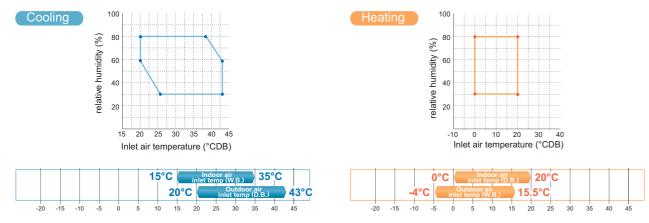
IFresh Air Intake model

Features

Fresh air intake model takes in fresh air from the outdoor suitable for application such as factories and laboratories where intake of indoor air is not favored.



Wide temperature range



Heating operation is available at -4°C Outdoor temperature making it adaptable for places with frequent heating requirements.

PFAV Series

PFAV Series STANDARD Model

PFAV-P VM-E

▶ Specifications



Model Name Indoor		Indoor		PFAV-P2	PFAV-P250VM-E PFA		PFAV-P500VM-E		PFAV-P750VM-E	
	Outdoor			PUHY-P250YJM-A(-BS)		PUHY-P500YSJM-A(-BS)		PUHY-P750YSJM-A (-BS) (PUHY-P350YJM-A(-BS)		
						(PUHY-P250YJM-A(-B	S) × 2,CMY-Y100VBK2)	+PUHY-P400YJM-A(-	BS),CMY-Y200VBK2)	
Operati	on			Cooling	Heating	Cooling	Heating	Cooling	Heating	
System	capacity		kW	25.0	28.0	50.0	56.0	71.0	80.0	
				(Maximum 28.0)	(Maximum 31.5)	(Maximum 56.0)	(Maximum 63.0)	(Maximum 80.0)	(Maximum 90.0)	
System	Power input		kW	7.46 / 7.53	8.27 / 8.34	17.85 / 18.84	17.00 / 17.99	26.33 / 27.40	23.93 / 25.00	
System	current		A	14.5-13.8-13.3 /	15.8-15.0-14.4 /	32.3-30.7-29.6 /	30.8-29.3-28.2 /	48.1-45.7-44.1 /	43.4-41.2-39.8 /	
				13.4-12.8-12.3	14.7-14.0-13.4	32.6-31.0-29.9	31.1-29.6-28.5	47.5-45.1-43.5	42.8-40.6-39.2	
Power	source			3-phase 4-wire 380-400-415V		3-phase 4-wire 380-400-415V			: 380-400-415V	
				,	/ 60Hz)	(50Hz	,	,	/ 60Hz)	
Power i	•		kW		/ 0.89	2.37			/ 5.37	
Current			Α		/ 2.3-2.2-2.1	6.2-5.9-5.7			0 / 10.3-9.8-9.4	
Fan	Type × Quantity			Sirocco	Sirocco fan × 2		Sirocco fan × 1		Sirocco fan × 1	
	Airflow rate	rate		90		180		260		
	External static pres	External static pressure		30 / 90		30 / 130		100 / 310		
	Motor output		kW	2.2		5.5		7.5		
Refrige	rant			R410A		R410A		R4	10A	
Externa	Il finish				steel plate	Galvanized			steel plate	
				(with polyester coating) <munsel 1="" 5y="" 8="" or="" similar=""></munsel>		(with polyester coating) <munsel 1="" 5y="" 8="" or="" similar=""></munsel>			ster coating)	
F. da	I dimension H × W × D				.200 × 485		420 × 635		8 / 1 or similar>	
	ion devices)	mm	,	al switch	, ,			750 × 1,064	
		I the state of the s	Fan motor				I switch Thermal switch Brazed 19.05 Brazed			
Remge	rant piping diameter	Liquid pipe		9.52 Brazed (12.7 for over 90m)		15.88 Brazed 28.58 Brazed		34.93 Brazed		
D (:		Gas pipe		22.2 Brazed		26.56 Brazed		34.93 Brazed 165		
	rant piping allowable le	engtn	m ID(A)	165		59 / 62		65		
-		dB(A)	55		*****					
Heat exchanger		Cross fin (Aluminum plate fin and copper tube)		Cross fin (Aluminum plate fin and copper tube)		Cross fin (Aluminum plate fin and copper tube)				
Air filter		Synthetic fiber unwoven cloth filter		Synthetic fiber unwoven cloth filter						
			l.a	Synthetic fiber unwoven cloth filter 156		265		459		
Net wei	gnt ng temperature range		kg	Cooling	Heating	Cooling	Heating	Cooling	Heating	
Operati	ng temperature range			Indoor:10°CWB~25°CWB	Indoor:15°CDB~28°CDB	Indoor:10°CWB~25°CWB	Indoor:15°CDB~28°CDB	Indoor:10°CWB~25°CWB	Indoor:15°CDB~28°CDB	
					(Outdoor:-20°CWB~15.5°CWB)		(Outdoor:-20°CWB~15.5°CWB)		(Outdoor:-20°CWB~15.5°CWB)	
				(Outdoor0 ODD 40 ODD)	(Outuon:-20 OND -13.3 OND)	(Outdoor5 ODD 45 ODD)	(Outuooi20 OND - 13.3 OND)	(Outdoor5 ODD 45 ODD)	(Outuou120 OND 10.0 OND)	

Notes:

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

	Indoor	Outdoor	Pipe length	Level difference
Cooling	27°CDB/19°CWB (81°FDB/66°FWB)	35°CDB (95°FDB)	7.5m (24-9/16ft.)	0m (0ft.)
Heating	20°CDB(68°FDB)	7°CDB/6°CWB (45°FDB/43°FWB)	7.5m (24-9/16ft.)	0m (0ft.)

- The sound pressure level is measured in an anechoic room.
 Long period operation in a high temperature and humidity atmosphere(dew point of 23°C or more) may cause condensation.
- 4 Works not included: Installation / foundation work, electric connection work, duct work, insulation work. The power source switch and other items are not specified in the specifications

Optional parts	Description	Model	Applicable capacity
		PAC-CC83PL-E	PFAV-P250VM-E
Indoor unit	Plenum chamber	PAC-CC85PL-E	PFAV-P500VM-E
		PAC-CC87PL-E	PFAV-P750VM-E
Outdoor wit	Turinaina liit	CMY-Y100VBK2	PUHY-P500YSJM-A
Outdoor unit	Twinning kit	CMY-Y200VBK2	PLIHY-P750YS IM-A

^{*}In heating operation, operation capacity may fall below the rated capacity in low outdoor temp. / indoor inlet temp. conditions.

PFAV Series FRESH AIR INTAKE Model PFAV-P VM-E-F



▶ Specifications

Model Name Indoor Outdoor		PFAV-P300VM-E-F		PFAV-P600VM-E-F		PFAV-P900VM-E-F			
		Outdoor		PUHY-P250YJM-A(-BS)		PUHY-P500YSJM-A(-BS) (PUHY-P250YJM-A(-BS) × 2,CMY-Y100VBK2)		PUHY-P750YSJM-A(-BS) (PUHY-P350YJM-A(-BS)	
			+PUHY-P400YJM-A(-					BS),CMY-Y200VBK2)	
Operatio	n			Cooling	Heating	Cooling	Heating	Cooling	Heating
System	capacity		kW	28.0	26.5	56.0	50.0	80.0	71.0
		(Maximum 33.5)	(Maximum 28.0)	(Maximum 67.0)	(Maximum 56.0)	(Maximum 100.0)	(Maximum 80.0)		
System	Power input		kW	6.73 / 6.72	7.57 / 7.56	14.69 / 15.05	15.43 / 15.79	22.54 / 22.74	21.43 / 21.63
System	current		Α	12.6-11.9-11.5 /	14.0-13.3-12.8 /	26.1-24.9-24.0 /	27.4-26.1-25.1 /	40.5-38.5-37.1 /	38.7-36.8-35.5 /
				12.2-11.5-11.1	13.6-12.9-12.4	26.2-25.0-24.0	27.5-26.2-25.1	39.6-37.6-36.2	37.8-35.9-34.6
Power se	ource			3-phase 4-wire 380-400-415V		3-phase 4-wire 380-400-415V		3-phase 4-wire 380-400-415V	
				(50Hz /	(60Hz)	(50Hz /	(60Hz)	(50Hz	(60Hz)
Power in	put		kW	0.37	0.36	0.90	1.26	1.77	1.97
Current			Α	1.9-1.8-1.7	1.5-1.4-1.3	2.9-2.8-2.8	3.0-2.9-2.8	5.6-5.3-5.1 / 4.7-4.4-4.2	
Fan	Type × Quantity			Sirocco	fan × 2	Sirocco	fan × 1	Sirocco fan × 1	
Airflow rate External static pressure			m ³ / min	45		90		120	
		Pa	80		110 / 170		210 / 330		
Motor output kW		1.5		2.2		3.7			
Refrigera	ant			R4	10A	R4	10A	R410A	
External	External finish		Galvanized	steel plate	Galvanized	steel plate	Galvanized	steel plate	
				(with polyester coating)		(with polyester coating)		(with polyes	ster coating)
				<munsel 1="" 5y="" 8="" or="" similar=""></munsel>		<munsel 1="" 5y="" 8="" or="" similar=""></munsel>		<munsel 5y<="" td=""><td>8 / 1 or similar></td></munsel>	8 / 1 or similar>
External	dimension H × W × [)	mm	1,748 × 1,	200 × 485	1,899 × 1,	420 × 635	1,860 × 1,750 × 1,064	
Protection	n devices		Fan motor	Therma	Il switch	Therma	l switch	Therma	l switch
Refrigera	ant piping diameter	Liquid pipe		9.52 Brazed (12.7 for over 90m)		15.88 Brazed		19.05 Brazed	
		Gas pipe		22.2 Brazed		28.58 Brazed		34.93 Brazed	
Refrigera	ant piping allowable le	ength	m	165		165		165	
Sound p	ressure level		dB(A)	48.5		50 / 53		57	
Heat exc	hanger			Cross fin		Cross fin		Cross fin	
		(Aluminum plate fir	n and copper tube)	(Aluminum plate fin and copper tube)					
Air filter	Air filter		Synthetic fiber unwoven cloth filter		Synthetic fiber unwoven cloth filter		PP Honeycomb fabric filter		
Net weig	ht		kg	15	51	24		43	-
Operation	g temperature range			Cooling	Heating	Cooling	Heating	Cooling	Heating
		Indoor:15°CWB~35°CWB (Outdoor:20°CDB~43°CDB)	Indoor:0°CDB~20°CDB (Outdoor:-4°CWB~15.5°CWB)	Indoor:15°CWB~35°CWB (Outdoor:20°CDB~43°CDB)	Indoor:0°CDB~20°CDB (Outdoor:-4°CWB~15.5°CWB)	Indoor:15°CWB~35°CWB (Outdoor:20°CDB~43°CDB)	Indoor:0°CDB~20°CDB (Outdoor:-4°CWB~15.5°CWB)		

Notes:

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

3 3 7								
	Indoor	Outdoor	Pipe length	Level difference				
Cooling	33°CDB/28°CWB (91°FDB/82°FWB)	33°CDB/28°CWB (91°FDB/82°FWB)	7.5m (24-9/16ft.)	0m (0ft.)				
Heating	7°CDB/3°CWB (45°FDB/37°FWB)	7°CDB/3°CWB (45°FDB/37°FWB)	7.5m (24-9/16ft.)	0m (0ft.)				

- 2. The sound pressure level is measured in an anechoic room.

- 3. The indoor intake air temperature should be kept more than 0°C.

 4. At factory setting, the fan temporary stops in defrosting. Change DIP SW for fan to operate in defrosting.

 5. Indoor temperature and humidity cannot be controlled with Fresh air intake type.

 6. Works not included: Installation / foundation work, electric connection work, duct work, insulation work. The power source switch and other items are not specified in the specifications.

Optional parts	Description	Model	Applicable capacity
Outdoor unit	Turinning kit	CMY-Y100VBK2	PUHY-P500YSJM-A
Outdoor unit	Twinning kit	CMY-Y200VBK2	PUHY-P750YSJM-A