

Air Treatment Equipment

Heat Reclaim Ventilator with DX-coil (VKM Series)

The heat reclaim ventilator lineup features the DX-coil in response to recently diversifying outdoor air introduction requirements.



Lineup

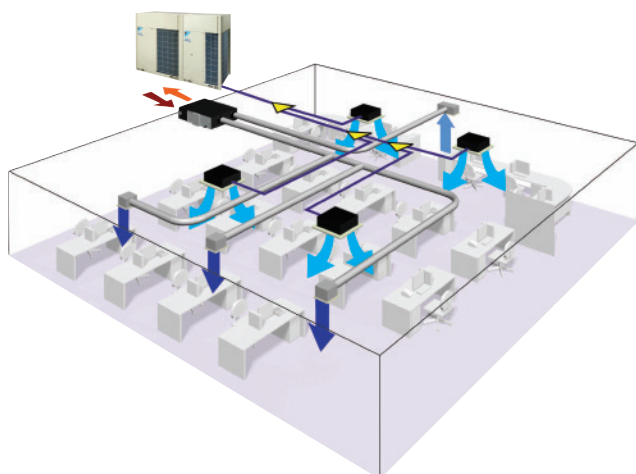
With DX Coil Type			
Model Name	VKM50GCVE	VKM80GCVE	VKM100GCVE
Capacity Index	31.25	50	62.5

DX-coil

The Heat Reclaim Ventilator features DX-coil that contributes to the prevention of hot airflow colliding people directly during cooling operation, due to the after-cool operations done beforehand.

High static pressure

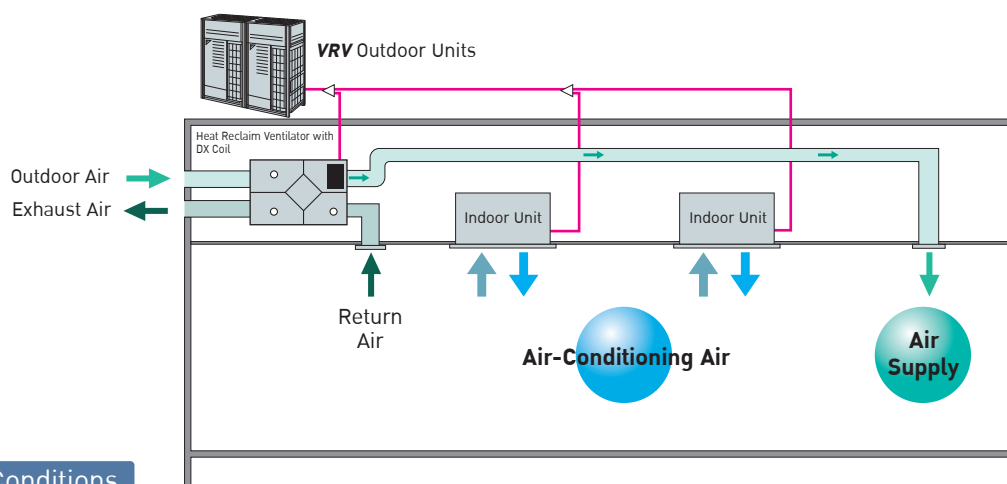
High external static pressure means enhanced design flexibility.



Efficient outdoor air introduction is possible

The Heat Reclaim Ventilator (VKM series) series introduces fresh outdoor air with minimum heat losses, with a wide variety of features to cater to customer requirements.

Air conditioning and outdoor air processing can be accomplished using a single system.



Connection Conditions

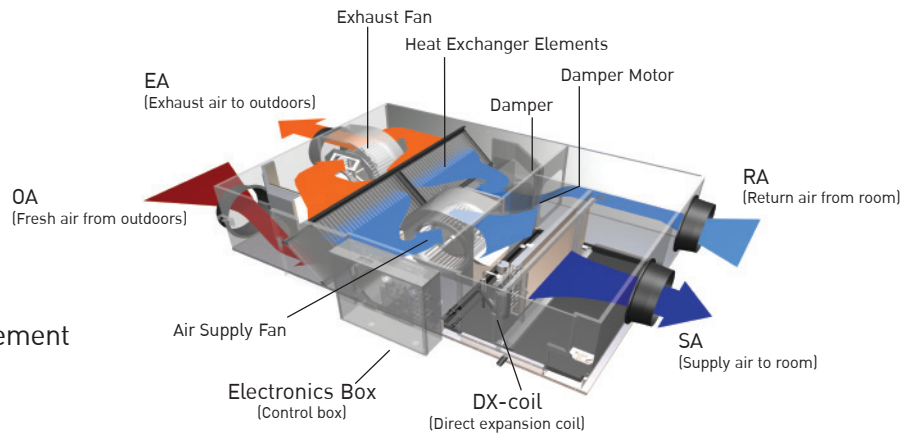
The following restrictions must be observed in order to maintain the indoor units connected to the same system.

- When the Heat Reclaim Ventilator VKM series units are connected, the total connection capacity index must be 50% to 130% of the capacity index of the outdoor units.

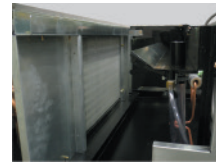
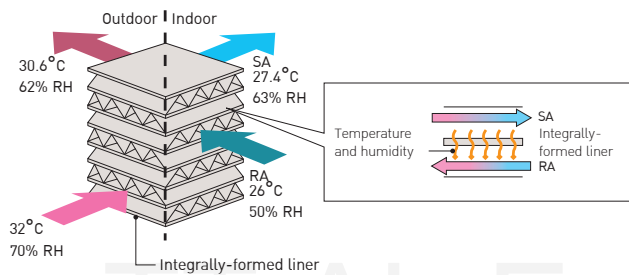
A compact unit packed with Daikin's cutting-edge technologies.



HEP Element (Anti-mould)



Operation of the heat exchanger element



Heat exchange and cooling process

Structure of VKM series

The supply air is cooled from 29°C to 17.2°C with DX-coil.

DX-Coil: Heat Exchanger which cool the supply air by the refrigerant provided from **VRV** outdoor unit's refrigerant.

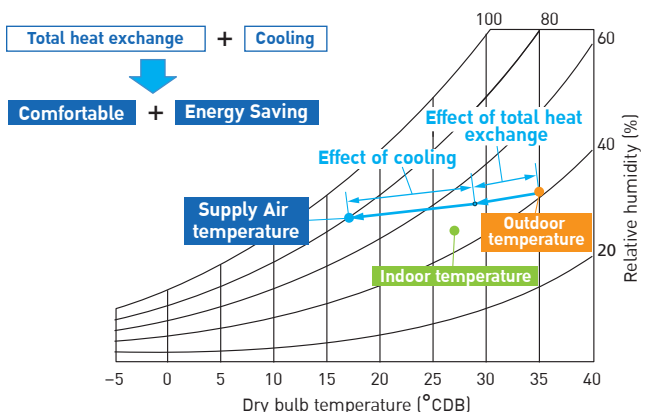
Efficient fresh outdoor air supply with heat exchange and cooling operation.

Indoor unit with outdoor air treatment

Using outdoor air, the temperature can be brought near room temperature with minimal cooling capacity through the use of outdoor air.

Other features

- Integrated system includes ventilation and air processing operations.
- Ventilation and cooling are possible with one remote controller.



Air Treatment Equipment

Specifications :



MODEL			VKM50GCVE	VKM80GCVE	VKM100GCVE
Refrigerant			R410A		
Power Supply (50/60Hz)			1-phase, 220-240 V / 1-phase, 220 V		
Airflow Rate & External Static Pressure (Ultra-high / High / Low) (Note1)	Airflow	m ³ /h	500/500/440	750/750/640	950/950/820
	Static Pressure	Pa	210/170/140	220/180/125	170/120/90
Power Consumption (Ultra-high / High / Low)	Heat exchange mode	W	270/230/170	390/335/220	440/370/260
	Bypass mode	W	305/260/200	390/335/220	440/370/260
Fan Type			Sirocco Fan		
Motor Output		kW	0.21 x 2		
Sound Level (Note2) (Ultra-high / High / Low)	Heat exchange mode	dB	43/40.5/39	41.5/39/37	41/39/36.5
	Bypass mode	dB	43/41/39	41.5/39/37	41/39/36.5
Temp. Exchabge Efficiency (Ultra-high / High / Low)		%	76/76/77.5	78/78/79	74/74/76.5
Enthalpy Exchabge Efficiency (Ultra-high / High / Low)	Cooling	%	64/64/67	66/66/68	62/62/66
	Heating	%	67/67/69	71/71/73	65/65/69
Heat Exchanging System			Air to Air Cross Flow Total Heat (Sensible + Latent Heat) Exchange		
Heat Exchanging Element			Specially Processed Non flammable Paper		
Air Filter			Multidirectional Fibrous Fleeces		
DX-coil Capacity (Cooling / Heating) (Note3) (Note4)		kW	2.8 / 3.2	4.5 / 5.0	5.6 / 6.3
Dimensions (Height x Width x Depth)		mm	387 x 1,764 x 832		
Machine Weight		kg	92	113	115
Unit Ambient Condition	Around Unit		0°C-40°CDB, 80%RH or less		
	OA (Note 5)		-15°C-40°CDB, 80%RH or less		
	RA (Note 5)		0°C-40°CDB, 80%RH or less		

Note : 1. Airflow rate can be changed over to Low mode or High mode. 2. The Operating sound measured at the point 1.5 m below the centre of the unit is converted to that measured in an anechoic chamber built in accordance with the JIS C1502 conditions. The actual operating sound varies depending on the surrounding conditions (near running unit's sound, reflected sound and so on) and is normally higher than this value. For Operation in a quiet room, it is required to take measures to lower the sound. For detail, refer to the Engineering Data. 3. Indoor Temperature : 27°CDB, 19°CWB, Outdoor temperature: 35°CDB. 4. Indoor Temperature : 20°CDB, Outdoor temperature: 7°CDB, 6°CWB. 5. OA: fresh air from outdoor. RA: return air from room.

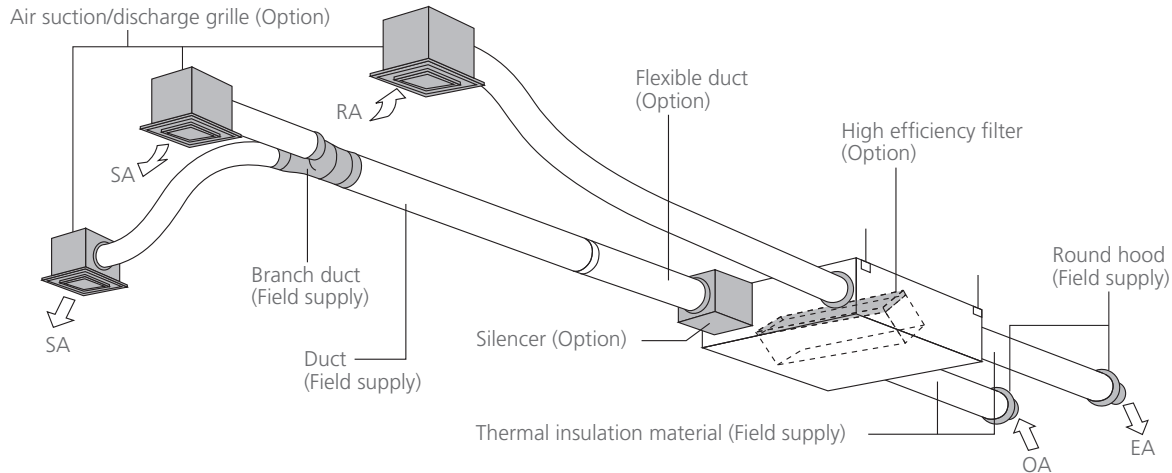
Options :

Item		Type	VKM50GCVE	VKM80GCVE	VKM100GCVE	
Controlling device	Remote controller *1		BRC1H63W / BRC1H63K / BRC1E63			
	PC Board Adaptor	Wiring adaptor for electrical appendices	KRP1A61			
		For heater control kit	BRP4A50			
Additional function	Silencer	Normal pipe diameter	—	KDDM24B100		
		mm	—	φ250		
	Air suction / Discharge grille	White	K-DGL200B		K-DGL250B	
		Normal pipe diameter	mm	φ200	φ250	
	High efficiency filter	KAF242J180M		KAF242J100M		
Air filter for replacement	KAF241G80M		KAF241G100M			
Flexible duct	1 m		K-FDS251D	K-FDS251D		
	2 m		K-FDS252D	K-FDS252D		
CO ₂ Sensor		BRYC24B50M		BRYC24B100M		

*1 Necessary when operating a Heat Reclaim Ventilator (VKM) independently. When Operating interlocked with other air Conditioners, use the remote controllers of the air conditioners.
 • Please inquire concerning optional accessories not listed above.

Optional Accessories

Installation of Optional Accessories

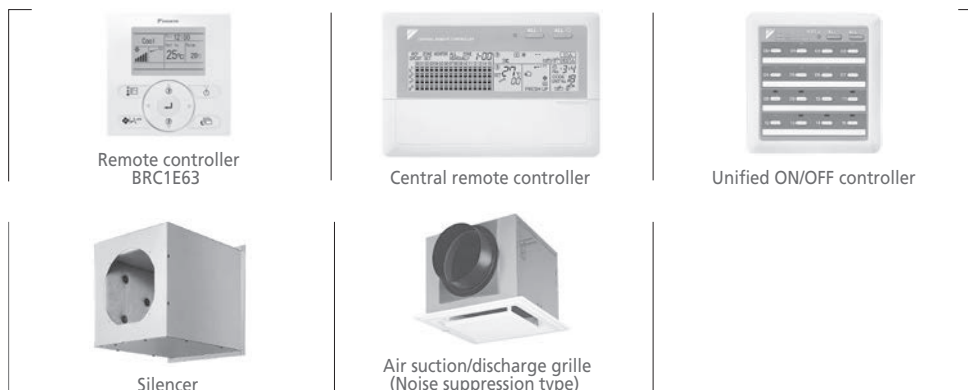


Optional Accessories

Item	Applicable model	VKM50GCVE	VKM80GCVE	VKM100GCVE
Controlling device	Remote controller *1	BRC1H63W / BRC1H63K / BRC1E63		
	Centralized controlling device	Central remote controller	DCS302CA61	
		Unified ON/OFF controller	DCS301BA61	

Note: *1 Necessary when operating a Heat Reclaim Ventilator (VKM) independently. When operating interlocked with other air conditioners, use the remote controllers of the air conditioners.

Item	Applicable model	VKM50GCVE	VKM80GCVE	VKM100GCVE	
Additional function	Silencer	—	KDDM24B100		
	Air suction/discharge grille	Nominal pipe diameter	mm	φ250 mm	
		White	K-DGL200C		K-DGL250C
	Air filter for replacement	Nominal pipe diameter	mm	φ200	
		High efficiency filter	KAF241J80M		KAF241J100M
CO ₂ sensor		BRYC24B50M		BRYC24B100M	
Drawing No.		C: 3D127790			



Air Treatment Equipment

Heat Reclaim Ventilator

VAM-H Series

Daikin VAM series ensures fresh air intake and energy savings



Lineup		
VAM150HVE	VAM250HVE	VAM350HVE
VAM500HVE	VAM650HVE	VAM800HVE
VAM1000HVE	VAM1500HVE	VAM2000HVE

Airflow rate: 150-2,000 m³/h



BRC1H63W



BRC1H63K

■ New features

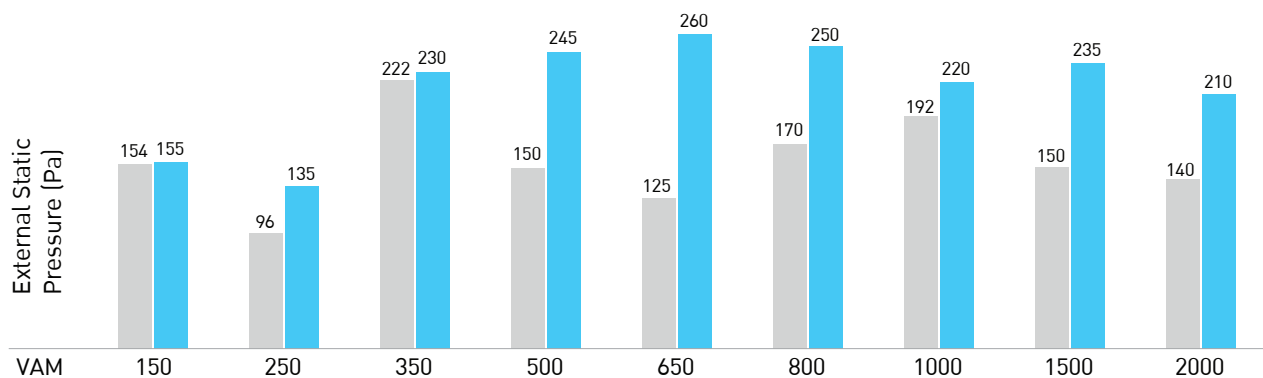
Design flexibility

By significantly improving external static pressure, support for a variety of duct layouts is possible, and installation flexibility has been improved.

The 1000-2000 class model has become more compact, and ease of installation has improved.

■ Comparison of external static pressure

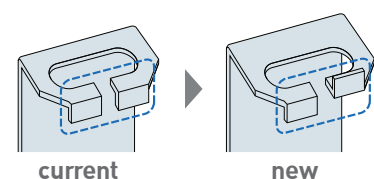
■ VAM-G Series ■ VAM-H Series



Improvement of installation workability

Improved workability by changing dimensions and shape of lifting lug

The structure that prevents nut slippage eliminates the need to replace the lifting lug even when installed upside down.

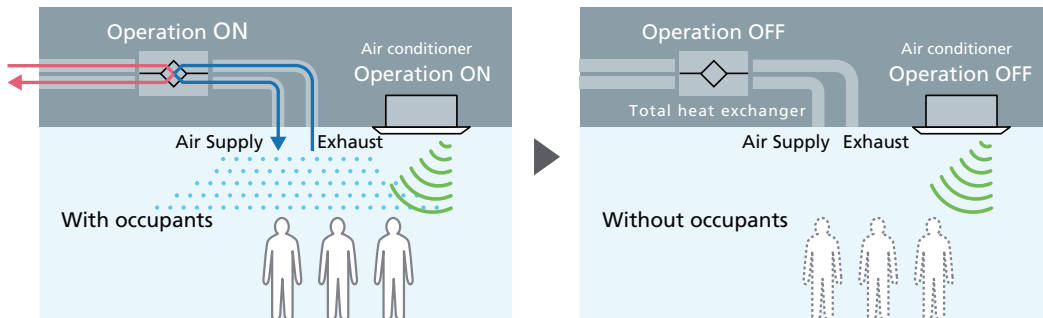


Energy saving

Sensing sensor stop mode

In situation of no human occupancy is detected, the operation is turned off.

When the "Sensing sensor" installed on the air conditioner detects no occupancy in the room, the ventilation system and air con system is turned off automatically to reduce energy wastage.



* During group controlling of air conditioner, no occupancy stop mode cannot be used. Please refer to **VRV** general catalogue for the target indoor units.

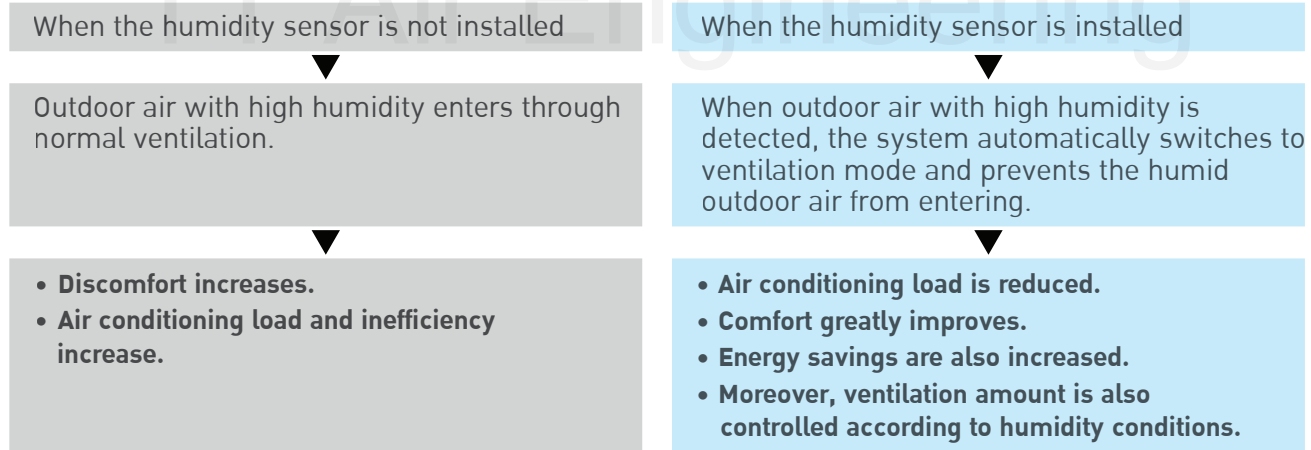
* During 24-hours ventilation mode is turned on, the normal operation mode is changed to 24-hours ventilation mode.

* Once the absence is detected and stopped, the operation will not be performed automatically again.

Humidity sensor (Option)

A humidity sensor (option) can be installed for greater comfort and energy-saving ventilation.

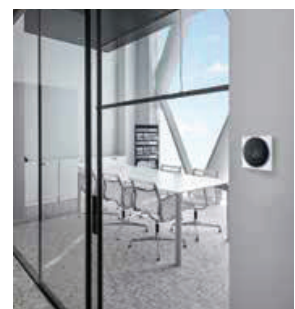
Conditions of low temperature and high humidity... Example, a rainy day, etc.



Stylish remote controller

NEW Stylish Remote Controller BRC1H62W (K) combining many VAM-dedicated functions

- Sensor results can be displayed up to 3 item on the information screen.
- Sensor results can be shared to the remote controller group.
- New icons have been added.



Air Treatment Equipment

Heat Reclaim Ventilator

Energy saving / Heat recovery functions

Air conditioner and ventilation system can be interlocked to provide even greater comfort and energy saving.

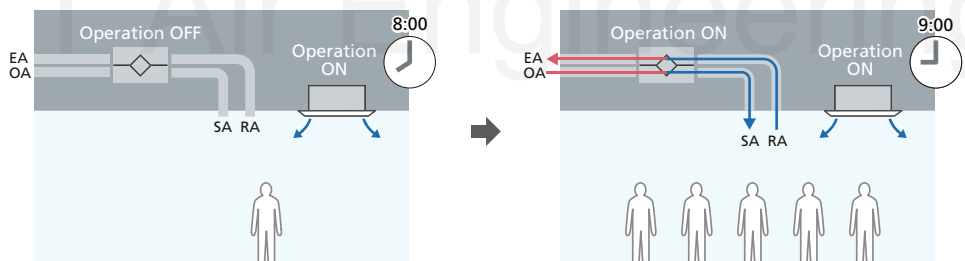
The system can be interlocked with Daikin air conditioners to provide energy saving ventilation solution for various situation.



Pre-cool, Pre-heat control

Intentional delay of the start-up time

When the air conditioner is started up, the ventilation start-up is delayed to reduce load caused by the outside air. This reduces power consumption of air conditioners.

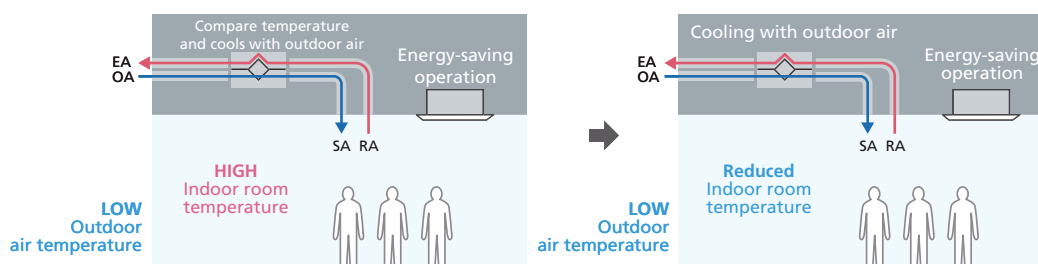


* The delay time can be changed using field settings.

Auto-ventilation mode changeover switching

Automatically determine the appropriate ventilation for each situation

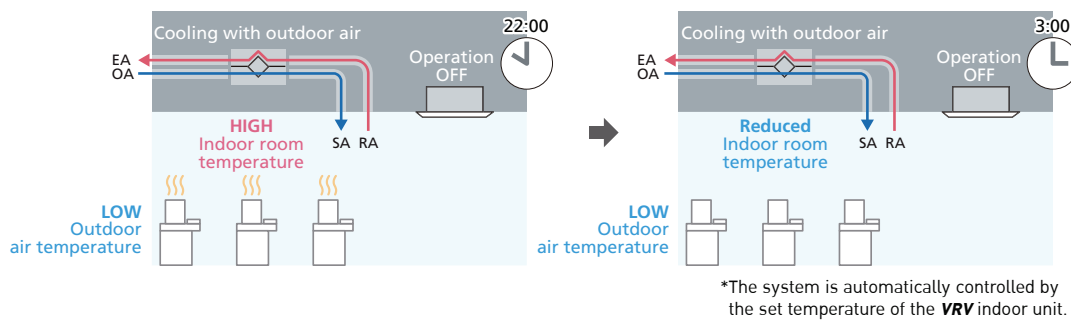
Indoor temperature and the outdoor temperature are detected, and the system automatically switches to the ventilation mode which has higher energy-saving effect.



Nighttime free cooling operation

Efficient use of outdoor air at night.

Rise indoor temperature is avoided by automatically cooling the outdoor air at night, thus reducing air conditioning load at the start of cooling operation on the next morning.



CO₂ sensor control (Option)

When CO₂ sensor is installed, it detects the concentration of CO₂ in the indoor air and the Ventilation rate is controlled appropriately, reducing the air conditioning load due to ventilation.

Improvement of IEQ (Indoor Environmental Quality)

PM2.5 filter (Option)

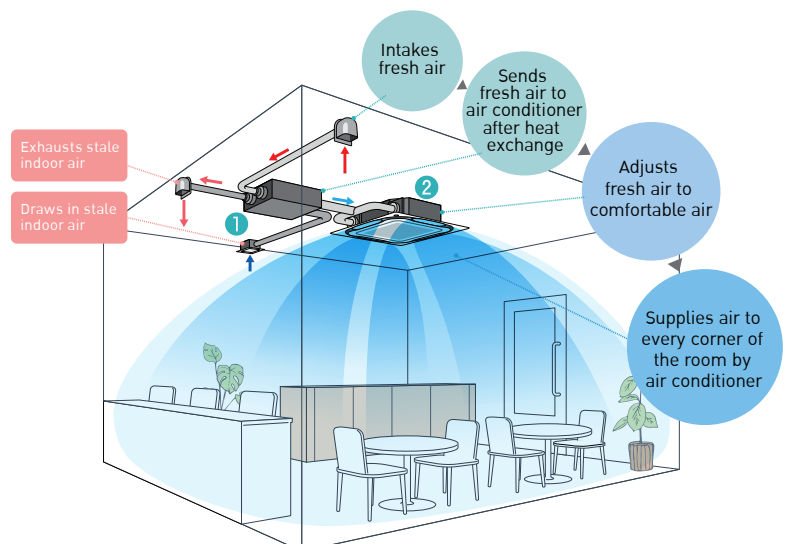
Removes PM2.5 particulate matter present in the outdoor air, as well as sulfur oxides and nitrogen oxides, providing clean fresh air to the indoor ambient.

- PM2.5 filter: Removes 99% or more of 2.5 μm particulate matter.
- Activated Carbon filter: Removes sulfur oxides and nitrogen oxides.

Fresh Air Comfort

Round Flow Cassette indoor units can be connected to a duct to provide fresh outdoor air for comfortable air from the air conditioner. Installation is also possible for existing indoor units.

- 1 Heat Reclaim Ventilator +
- 2 Round Flow Cassette (including with sensing type)



Air Treatment Equipment

Heat Reclaim Ventilator

■ Specification

Model			VAM150HVE	VAM250HVE	VAM350HVE	VAM500HVE	VAM650HVE	VAM800HVE	VAM1000HVE	VAM1500HVE	VAM2000HVE												
Power Supply			Single phase, 220-240 V/220 V, 50/60 Hz																				
Temperature exchange efficiency (50/60 Hz)	For Cooling	Ultra-High	66.0/66.0	60.5/60.5	65.0/65.0	61.5/61.5	59.5/59.5	61.5/61.5	58.0/58.0	61.5/61.5	58.5/58.5												
		High	66.0/66.0	60.5/60.5	65.0/65.0	61.5/61.5	59.5/59.5	61.5/61.5	58.0/58.0	61.5/61.5	58.5/58.5												
		Low	69.0/69.5	65.0/65.5	70.0/70.0	63.0/64.0	62.5/63.0	64.0/65.0	61.5/62.0	65.5/66.0	65.5/65.5												
Enthalpy exchange efficiency (50/60 Hz)	For Cooling	Ultra-High	63.5/63.5	60.0/60.0	62.5/62.5	62.5/62.5	60.0/60.0	63.0/63.0	60.0/60.0	63.0/63.0	60.0/60.0												
		High	63.5/63.5	60.0/60.0	62.5/62.5	62.5/62.5	60.0/60.0	63.0/63.0	60.0/60.0	63.0/63.0	60.0/60.0												
		Low	66.0/66.5	61.5/62.0	64.5/65.0	64.0/65.0	62.5/63.0	64.5/65.5	62.0/62.5	65.5/66.0	64.5/64.5												
Power Consumption (50/60 Hz)	Heat exchange mode	Ultra-High	96-103/132	126-141/172	178-193/231	296-326/390	381-426/472	664-684/829	683-736/883	1,274-1,353/1,645	1,365-1,471/1,763												
		High	90-93/118	114-123/144	163-170/207	248-261/329	307-319/413	603-612/712	621-656/763	1,207-1,225/1,423	1,241-1,311/1,526												
		Low	68-73/67	75-83/79	132-142/145	223-233/268	264-276/332	504-544/562	539-569/594	1,008-1,089/1,125	1,079-1,138/1,188												
	Bypass mode	Ultra-High	96-103/132	126-141/172	178-193/231	296-326/390	381-426/472	664-684/829	683-736/883	1,274-1,353/1,645	1,365-1,471/1,763												
		High	90-93/118	114-123/144	163-170/207	248-261/329	307-319/413	603-612/712	621-656/763	1,207-1,225/1,423	1,241-1,311/1,526												
		Low	68-73/67	75-83/79	132-142/145	223-233/268	264-276/332	504-544/562	539-569/594	1,008-1,089/1,125	1,079-1,138/1,188												
Sound Level (50/60 Hz)	Heat exchange mode	Ultra-High	33.0-34.0/34.0	33.0-34.0/33.5	32.0-33.0/34.5	36.0-37.0/38.5	37.5-38.0/38.0	41.5-42.5/41.0	42.0-43.0/42.5	43.0-44.0/44.0	43.5-44.0/44.5												
		High	30.5-32.0/28.0	31.5-32.5/28.0	30.0-31.5/27.5	35.0-36.0/35.0	36.0-36.5/37.0	39.5-41.0/37.0	40.0-41.0/38.0	41.0-42.5/39.0	41.5-43.0/40.0												
		Low	23.0-25.5/20.0	23.0-25.5/21.0	26.5-28.5/22.0	32.0-34.0/31.0	34.0-35.0/32.5	36.0-38.5/33.0	38.0-39.5/34.5	38.0-40.5/35.0	39.0-41.0/36.5												
	Bypass mode	Ultra-High	33.5-34.0/36.0	33.0-34.0/34.5	32.5-33.5/34.5	36.0-37.0/38.5	39.5-40.0/42.0	41.5-42.5/41.0	42.0-43.0/42.5	43.0-44.0/44.0	43.5-44.0/44.5												
		High	31.5-33.0/28.5	31.0-32.5/29.0	31.0-32.0/27.5	35.0-36.0/35.0	38.0-38.5/39.0	39.5-41.0/37.0	40.0-41.0/38.0	41.0-42.5/39.0	41.5-43.0/40.0												
		Low	23.0-25.5/20.5	23.5-25.5/21.5	27.0-29.0/23.0	32.0-34.0/31.0	35.5-36.5/33.5	36.0-38.5/33.0	38.0-39.5/34.5	38.0-40.5/35.0	39.0-41.0/36.5												
Casing			Galvanised steel plate																				
Insulation Material			Self-extinguishable polyurethane foam																				
Dimensions (H x W x D)			mm			278 x 551 x 810			306 x 800 x 879			338 x 832 x 973			387 x 1,012 x 1,110			785 x 1,012 x 1,110					
Machine Weight			kg			22			31			41			43			63			133		
Heat Exchange System			Specially processed nonflammable paper																				
Heat Exchange Element Material			Multidirectional fibrous fleeces																				
Fan	Type		Sirocco fan																				
	Airflow Rate (50/60 Hz)	Ultra-High	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000												
		High	150/150	250/250	350/350	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000												
		Low	100/80	165/145	275/235	470/420	570/495	720/610	880/835	1,350/1,250	1,650/1,580												
	External static pressure (50/60 Hz)	Ultra-High	125-140/155	115-130/135	170-185/230	165-190/245	185-190/260	210-235/250	205-225/220	195-215/235	190-210/210												
		High	100-120/100	80-90/60	145-165/80	140-175/180	140-155/210	170-215/140	155-195/100	150-180/125	140-180/85												
Low		44-80/28	35-75/20	90-102/36	124-155/127	108-119/122	138-174/81	115-150/70	123-146/88	96-123/53													
Motor Output		kW			0.030 x 2			0.060 x 2			0.100 x 2			0.170 x 2			0.190 x 2			0.190 x 4			
Effective ventilation rate			Ultra-High			%			90														
Connection duct diameter			Indoor side		mm		φ100			φ150			φ200			φ250			φ250 x 4				
			Outdoor side		mm											□ (680 x 290) x 2							
Unit ambient condition			-15°C to 50°CDB, 80%RH or less																				

Notes:

- Airflow rate can be changed over to Low mode or High mode.
- Temperature Exchange Efficiency is the mean value between cooling and heating.
- Efficiency is measured under the following conditions: Ratio of rated external static pressure has been maintained as follows; outdoor side to indoor side = 7 to 1.
- In conformance with JIS standards (JIS B 8628), operating sound level is based on the value when one unit is operated, with the value converted for an anechoic chamber. This is transmission sound from the main unit, and does not include sound from the discharge grille. Thus it is normal for the sound to be louder than the indicated value when the unit is actually installed.

Remote controller function for Heat Reclaim Ventilator

Function	Detail	BRC1H63W(K)	BRC1E63	BRC2E61
Air conditioner interlock	Interlock Heat Reclaim Ventilator with air conditioner by one remote controller	●	●	●
Ventilation mode	Switch the ventilation mode (Automatic, Heat exchange, Bypass)	●	●	—
Ventilation airflow rate	When using CO ₂ sensor, ventilation volume can be changed	●	●	●
Fresh up indication	Indicates that fresh up operation is being carried out	●	—	—
CO ₂ indication	Indicates value of CO ₂ sensor	○	—	—
Outdoor temperature indication	Indicates outdoor air temperature (OA)	○	—	—
Nighttime free cooling indication	Indicates that night purge operation is set	○	—	—
24 hour ventilating indication	Indicates that 24 hour ventilating operation is set	○	—	—
Ventilating operation indication	Indicates that ventilating operation is being carried out even when night purge operation and 24 hour ventilating operation is being carried out	●	●	—
Ventilating standby indication	Indicates that ventilating operation has been stopped temporarily during pre-cool / pre-heat control	○	—	—
Sharing CO ₂ data	Share the CO ₂ data to submit from main unit with in the group	○	—	—

○ : New functions / ● : Installed functions

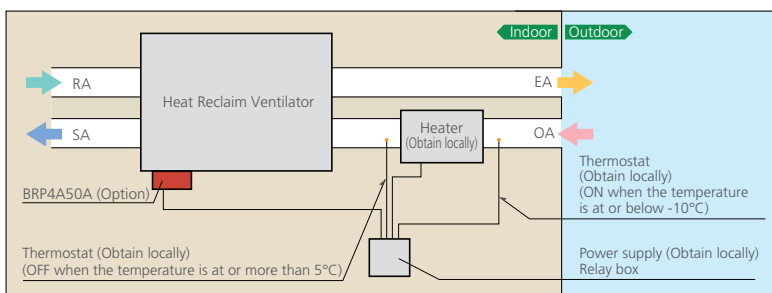
Options

Item		MODEL	VAM150HVE	VAM250HVE	VAM350HVE	VAM500HVE	VAM650HVE	VAM800HVE	VAM1000HVE	VAM1500HVE	VAM2000HVE
Additional function	Silencer		—			KDDM24B100			KDDM24B100 × 2		
	Nominal pipe mm		—			φ200			φ250		
	High efficiency filter		KAF242J25M		KAF242J50M	KAF242J65M		KAF242K100M		KAF242K100M × 2	
	Air filter for replacement		KAF241J25M		KAF241J50M	KAF241J65M		KAF241K100M		KAF241K100M × 2	
	Flexible duct (1m)		K-FDS101E	K-FDS151E	K-FDS201E			K-FDS251E			
	Flexible duct (2m)		K-FDS102E	K-FDS152E	K-FDS202E			K-FDS252E			
	CO ₂ sensor		BRYC24A25M		BRYC24A35M	BRYC24A65M		BRYC24A100M			
	Humidity sensor		BRYH241A100 (for RA) / BRYH242A100 (for OA)								
	PM2.5 filtration unit		BAF249A150	BAF249A300	BAF249A350	BAF249A500	—		BAF429A20A		
	PM2.5 with activated carbon filtration unit		BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C	—		BAF429A20AC		
	Wired remote controller		BRC 1H63W (White) / BRC 1H63K (Black) / BRC 1E63 / BRC 2E61								
Controlling device	Centralised controlling device	Residential central remote controller	DCS303A51*1								
		Central remote controller	DCS302CA61								
		Unified ON/OFF controller	DCS301BA61								
	Schedule timer	DST301BA61									
PCB Adaptor	Wiring adaptor for electrical appendices	KRP2A62									
	Installation box for adaptor PCB	KRP1C18A90									
	For heater control kit PCB adaptor for wiring	BRP4A50A									
		KRP1C18									

Notes:*1. For residential use only. When connect with a Heat Reclaim Ventilator (VAM), you can only switch the power ON/OFF. It cannot be used with other central control equipment.

PCB adaptor for heater control kit [BRP4A50A] (Option)

When the installation of an electric heater is required in a cold region, this adaptor with an internal timer function eliminates the complicated timer connecting work that was necessary with conventional heaters.



Notes when installing :

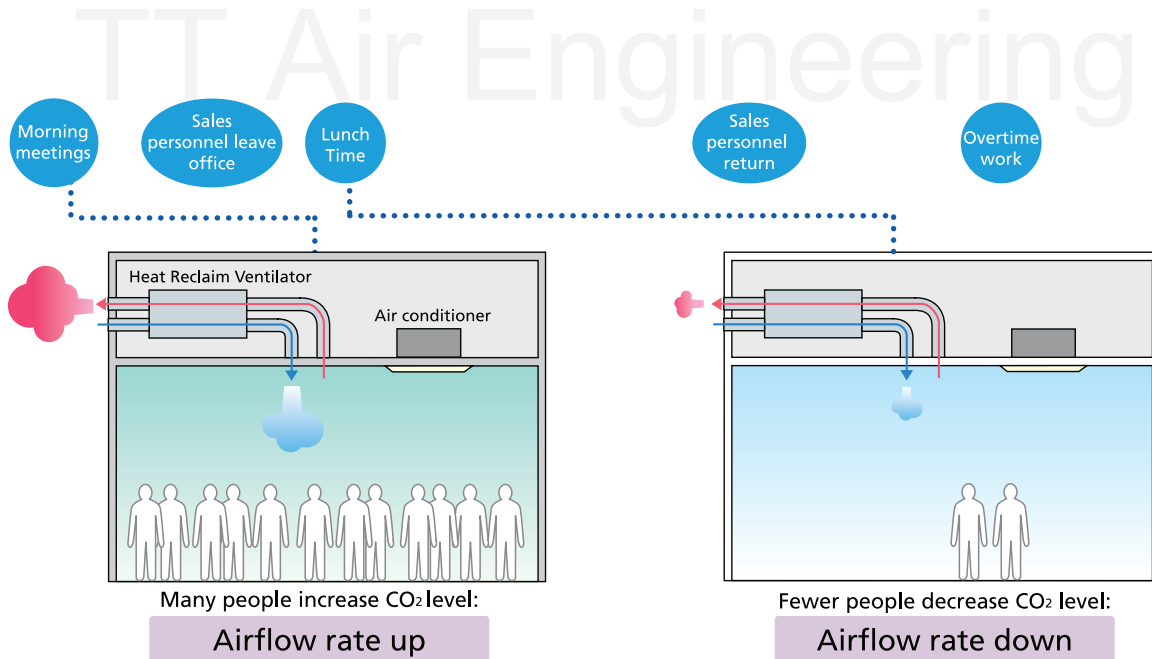
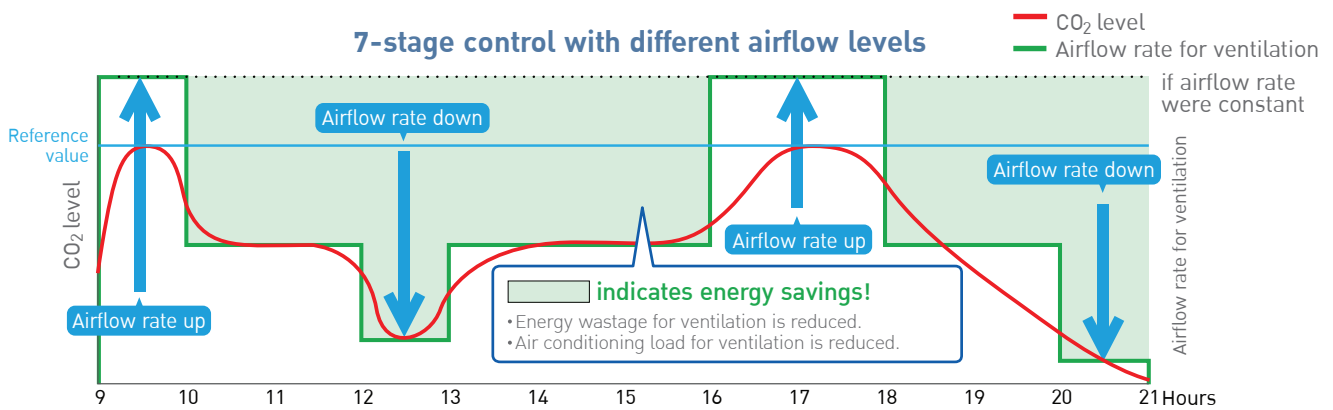
- Examine fully an installation place and specification for using the electric heater based on the standard and regulation of each country.
- Supply the electric heater and safety production devices such as a relay and a thermostat, etc of which qualities satisfy the standard and regulation of each country at site.
- Use a non-flammable connecting duct to the electric heater. Be sure to use 2 m or more between the electric heater and the Heat Reclaim Ventilator for safety.
- For the Heat Reclaim Ventilator, use a different power supply from that of the electric heater and install a circuit breaker for each.

Air Treatment Equipment

■ Airflow rate control with CO₂ sensor (Option) for VAM / VKM series

The CO₂ sensor controls airflow rate so that it best matches the changes of CO₂ level in the room. This prevents energy losses from over-ventilation while maintaining indoor air quality with optional CO₂

- Example of CO₂ sensor operation in an office room:



PM2.5 filtration unit (Option) for VAM / VKM / FXMQ-MF series

Rapid urbanization has increased industrial and automobile emissions, resulting in higher PM2.5 levels. This has become the source of respiratory diseases and poses a serious threat to a long term health issue. As the air quality has worsened, research has shown the harmful effects of PM2.5 on the health of the general public.

Double-layered efficient filtration

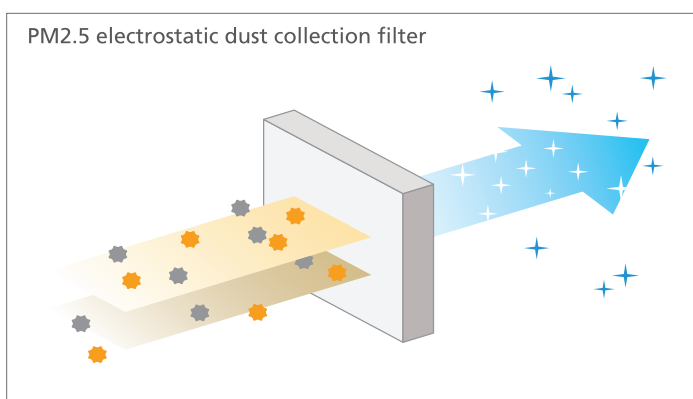
PM2.5 filters are double-layered.

1. The front filter effectively removes large particles.
2. The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently



Filtering PM2.5 efficiently for healthier and more comfortable environments

This filter removes 99% or more of 2.5 μm particulate matter



PM2.5
Removal Rate
99%

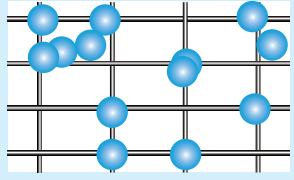
*Test results by the Heating, Ventilation and Air Conditioning Lab at Tongji University
Test environment: temperature 25-26°CDB, humidity 58-60%RH

Air Treatment Equipment


Electrostatic dust collection filter: more efficient and longer lasting effect

The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently, including those smaller than the grid mesh. The filter is difficult to be blocked by particles and has good ventilation and long life span.

Daikin Electrostatic Dust Collecting Filtration



With the capturing effect of static electricity, particles are adsorbed on the filter fabric.



The filter is not blocked and therefore continuous Supply Air is guaranteed.

▼

Long-lasting highly efficient dust collection capacity

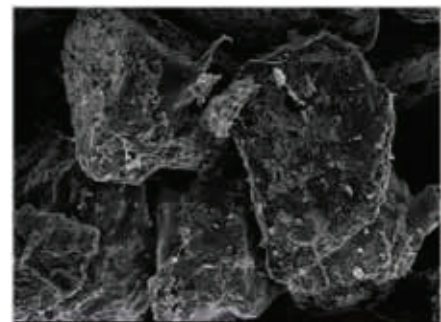
PM2.5 with activated carbon filtration unit (Option) for VAM / VKM / FXMQ-MF series

Extra-high performance filter against sulfur oxides and nitrogen oxides

Effective Use of Active Carbon Material to Enlarge the Adsorption Area

As an expert in the research and development of filters, Daikin has specifically selected active carbon material as the main substance to constitute the filter against sulfur oxides and nitrogen oxides. The material's usable pore surface is fully exploited, thus extending the filter's durability.

Notes: Surface area of active carbon: 700 m²/g
 Given a newspaper page of 40.6 cm wide by 54.6 cm long,
 each gram of active carbon has a surface area of 3,000 newspaper pages.



Intelligent Identification, Super-effective Adhesion

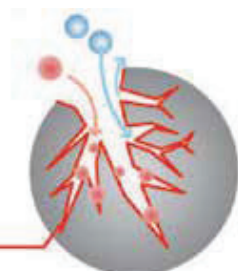
The special substance added in the pores of active carbon can exclusively target sulfur oxide and nitrogen oxide gases and stick to them without blocking other unidentified gases. This ensures long durability of the filter.

Notes: The figures are based on in-house tests under the following lab conditions:
 temperature 22 to 25°CDB, humidity 35 to 40% RH, air flow rate 0.2 m/s.

Unidentified Gases

NO₂, SO₂

Adhesives



PM2.5 filtration unit

MODEL		BAF249A150	BAF249A300	BAF249A350	BAF249A500	BAF429A20A	
Dimensions (H x W x D)	mm	220x603x366	220x603x366	300x623x366	300x623x366	470x971x370	
Connection Duct Diameter	mm	φ 100	φ 150	φ 150	φ 200	580x348	
Airflow Rate	m ³ /h	150	250	350	500	2,100	
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31	42	less than 40
	Filter Lifetime ^{*1}		1 year				
	Filtration Efficiency ^{*2}		99% or higher				
	Filter Material No. ^{*3}		BAF244A300		BAF244A500		BAF424A20A

Notes: 1. Annual usage: 400 hrs/month x 12 months = 4,800 hrs

2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more.

3. Filters come with applicable filtration units with a one-year life. They can be purchased and replaced according to their model numbers.

PM2.5 with activated carbon filtration unit

MODEL		BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C	BAF429A20AC	
Dimensions (H x W x D)	mm	220x603x366	220x603x366	300x623x366	300x623x366	470x971x370	
Connection Duct Diameter	mm	φ 100	φ 150	φ 150	φ 200	580x348	
Airflow Rate	m ³ /h	150	250	350	500	2,100	
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31	42	less than 40
	Filter Lifetime ^{*1}		1 year				
	Filtration Efficiency ^{*2}		99% or higher				
	Filter Material No. ^{*3}		BAF244A300		BAF244A500		BAF424A20A
Activated Carbon Filter	Initial Pressure Drop	Pa	3	5	5	9	less than 10
	Filter Lifetime		1 year				
	Filter Material No. ³		BAF244A300C		BAF244A500C		BAF424A20AC
Total Initial Pressure Drop for PM2.5 with Activated Carbon Filtration Unit	Pa	37	35	36	51	less than 50	

Notes: 1. Annual usage: 400 hrs / month x 12 months = 4,800 hrs.

2. 99% or higher removal rate of ultra-fine particles with diameters of 2.5 μm or more.

3. Filters come with applicable filtration units with a one-year life. They can be purchased and replaced according to their model numbers.