DAIKIN



- Warning Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
 - Read the User's Manual carefully before using this product. The User's Manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.





PM2.5 Purifying Series

HEAT RECLAIM VENTILATOR

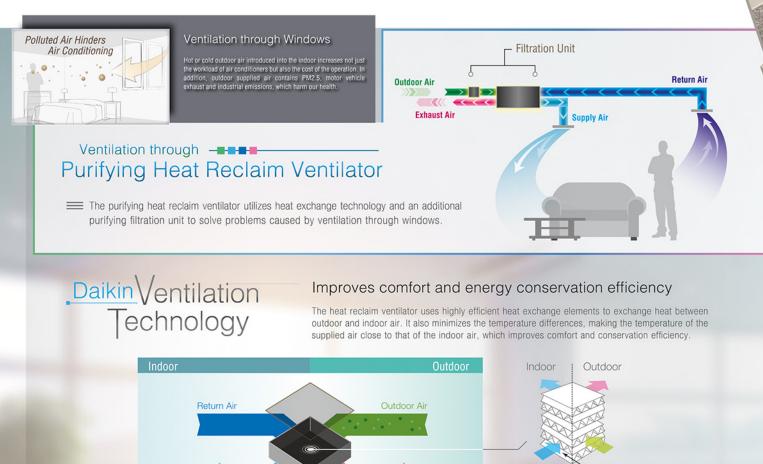
Fresh Air Ventilation

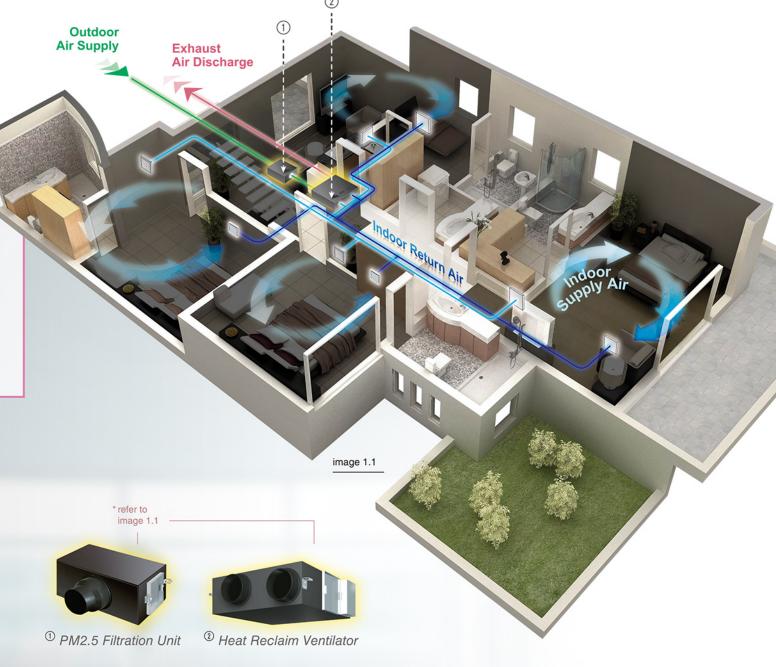
High Efficiency Purification

Energy Conservation



Effectively Filtering Particulate Matter in the Air





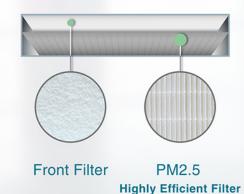
Heat Reclaim Ventilator PM2.5 Filtering Series

Note: The above diagram is an example of the cooling operation using heat reclaim ventilator

► Double-layered efficient filtration

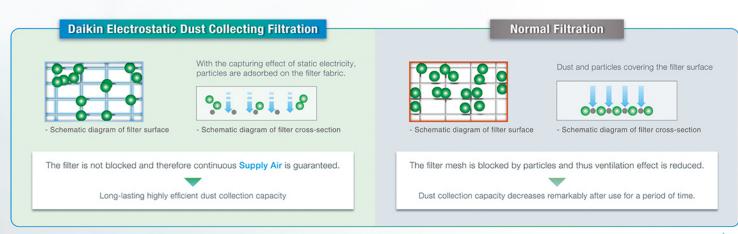
PM2.5 filters are double-layered.

- 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.





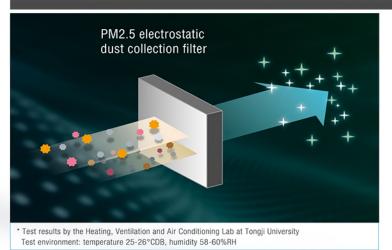
The PM2.5 filter layer contains a large amount of static electricity to capture particulate matter efficiently, including those smaller than the grid mesh. The filter is difficult to be blocked by particles and has good ventilation and long life span.

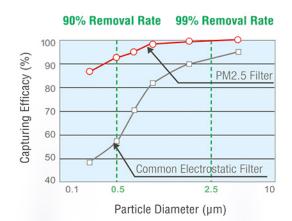


Filtering PM2.5 efficiently for healthier and more comfortable environments

The PM2.5 filtering series heat reclaim ventilator is equipped with an electrostatic dust collection filter for PM2.5 removal. This filter not only removes 99% or more of 2.5 μ m; it also eliminates up to 90% of 0.5 μ m matter!



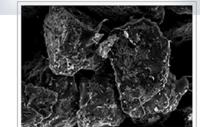




Extra-High Performance Filter Against Sulfur Oxides and Nitrogen Oxides

► Effective Use of Active Carbon Material to Enlarge the Absorption 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.



Note: 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.

Unidentified Gases
NO₂, SO₂
Adhesives

Note: 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.

Outdoor Pollution

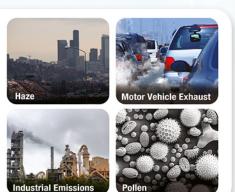
threatens long-term health

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 the long-term health of people. As the air quality has worsened, research has shown the harmful effects of PM2.5 on the health of the general public.

Major Sources of PM2.5

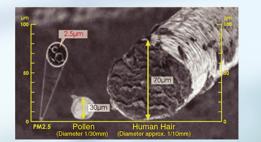
Combustion processes, such as fossil fuel (coal, petrol, diesel oil), biofuel (straw, firewood), waste incineration and motor vehicle emissions.

* The increase of polluting gases and particles makes urban gas components more complicated.



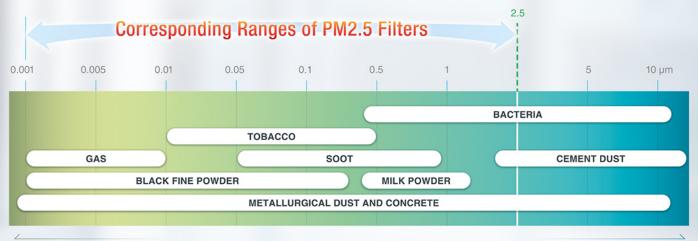
What is PM2.5?

PM: Particulate matter. Particles of various sizes are found in the air; the smaller PM2.5 have diameters of 2.5 micrometers or less, about 1/20 diameter of a human hair. They are also called respirable suspended particles. PM2.5 concentration refers to the amount of particulate matter per cubic meter of air. The higher the concentration is, the more severe the air pollution is.



PM2.5 Health Risks

PM2.5 can easily be drawn into the lungs, damaging our respiratory and cardiovascular systems. Lung cancer, cardiovascular diseases, bronchitis and asthma are all linked to PM2.5 exposure. The elderly, children, and patients with cardiovascular and respiratory diseases are more sensitive to PM2.5 pollution.



Invisible range to the naked eye

Visible range to the naked eye

Specifications

PM2.5 Filtration Unit

	Models	BAF249A150	BAF249A300	BAF249A350	BAF249A500	
Heat Reclaim Ve	entilator Models	VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	
Dimensions (H × W × D)		mm	220 x 603 x 366	220 x 603 x 366	300 x 623 x 366	300 x 623 x 366
Connection Duct Diameter		mm	Ø100	Ø150	Ø150	Ø200
Airflow Rate			150	300	350	500
PM2.5 Filter	Initial Pressure Drop	Pa	34	30	31	42
	Filter Lifetime ¹	1 year				
	Filtration Efficiency ²	99% of higher				
	Filter Material No. 3	BAF244A300		BAF244A500		

- Notes: 1. Annual usage: 400 hrs/month x 12 months = 4,800 hrs
 - 2. 99% or higher removal rate of ultra-fine particles with diameter of 2.5 µm or more; 90% or higher removal rate of ultra-fine particles
 - 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

	Models	BAF249A150C	BAF249A300C	BAF249A350C	BAF249A500C	
Heat Reclaim V	entilator Models	VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	
Dimensions (H	Dimensions (H × W × D)			220 x 603 x 366	300 x 623 x 366	300 x 623 x 366
Connection Duc	Connection Duct Diameter			Ø150	Ø150	Ø200
Airflow Rate	Airflow Rate			250	350	500
	Initial Pressure Drop	Pa	34	30	31	42
DMO F Filter	Filter Lifetime ¹	1 year				
PM2.5 Filter	Filtration Efficiency ²	99% of higher				
	Filter Material No. 3	BAF244A300		BAF244A500		
120000 N N	Initial Pressure Drop	Pa	3	5	5	9
Activated Carbon Filter	Filter Lifetime ¹	1 year				
- Carbon Filler	Filter Material No. 3	BAF244A300C		BAF244A500C		
Total Initial Pressure Drop for PM2.5 with Activated Carbon Filtration Unit		Pa	37	35	36	51

- Notes: 1. Annual usage: 400 hrs/month x 12 months = 4,800 hrs
 - 2. 99% or higher removal rate of ultra-fine particles with diameter of 2.5 µm or more; 90% or higher removal rate of ultra-fine particles with diameter of 0.5 µm.
 - 3. Filters come with applicable filtration units with a one-year life. They can be purchased and replaced according to their model numbers.

Specifications

Models					VAM150GJVE	VAM250GJVE	VAM350GJVE	VAM500GJVE	
	Power Supply				1-phase, 220-240 V/ 220 V, 50/60 Hz				
Heat Reclaim Ventilator	_	20 PM II			%	79/79	75/75	79/79	74/74
	Temp. Exchange		High	79/79		75/75	79/79	74/74	
	Eilicie	Efficiency ^{1,2} (50/60 Hz)		Low		84/85	79/79	82/82	80/80.5
				Ultra-High		72/72	71/72	70/70	67/67
	Entholou		For Heating	High	%	72/72	71/71	70/70	67/67
	Enthalpy Exchange	nae	e	Low	1	76/76.5	74/74	77/77	74/74.5
	Efficie	ncy	For Cooling	Ultra-High		66/66	63/63	66/66	55/55
	(50/60) Hz)		High	%	66/66	63/63	66/66	55/55
				Low		70/70.5	66/66	70/70	59/59.5
			Heat	Ultra-High		125/134	137/141	200/226	248/270
			Exchange Mode	High	W	111/117	120/125	182/211	225/217
	Power	mption		Low		57/58	60/59	122/120	128/136
	(50/60			Ultra-High		125/134	137/141	200/226	248/270
			Bypass Mode	High	W	111/117	120/125	182/211	225/217
				Low		57/58	60/59	122/120	128/136
			Heat	Ultra-High		27-28.5/28.5	27-29/29	31.5-33/33	33-35.5/34
			Exchange	High	dB(A)	26-27.5/27.5	26-27.5/28	30-31.5/30	31.5-34/32
	3,4,5 (50/60 Hz)		Mode	Low		20.5-21.5/21	21-22/21	23-25/23	25-28.5/24
			Bypass Mode	Ultra-High	dB(A)	28.5-29.5/29.5	28.5-30.5/30.5	33-34.5/34.5	34.5-36/35.5
				High		27.5-28.5/28.5	27.5-29/29.5	31.5-33/31.5	33-34.5/33.5
				Low		22.5-23.5/22	22.5-23/22.5	24.5-26.5/24.5	25.5-28.5/25.5
	Dimensions (HxWxD)				mm	278×810×551		306×879×800	
	Machine Weight				kg	24		32	
	Fan Ext	Airflou	Data	Ultra-High	m³/h	150/150	250/250	350/350	500/500
		(50/60		High		150/150	250/250	350/350	500/500
		(00/00112)		Low		100/95	155/155	230/230	320/295
		External Static		Ultra-High		120/154	70/96	169/222	105/150
		Pressu	ıre	High	Pa	106/131	54/65	141/145	66/52
		(50/60	Hz)	Low		56/60	24/20	67/30	32/18
	Connection Duct Diameter mm				mm	∲100 ∮150			<i>\$</i> 200
	Remote Controller (Wired)				BRC301B61				
	Unit Ambient Condition				-15°C – 50°C DB, 80%RH or less				

- Notes: 1. Temperature exchange efficiency is the mean value between cooling and heating.
 - 2. Efficiency is measured under the following conditions: ratio of rated external static pressure kept as follows: outdoor side to indoor side = 7 to 1.
 - 3. Sound level is measured at 1.5 m below the center of the body.
 - 4. Sound level is measured in an anechoic chamber. Sound level generally exceeds this value, depending on the operating conditions, reflected sound, and peripheral noise.
 - 5. The sound level at the exhaust air port is about 8 dB(A) higher than the unit's sound level.

Spec 1.2