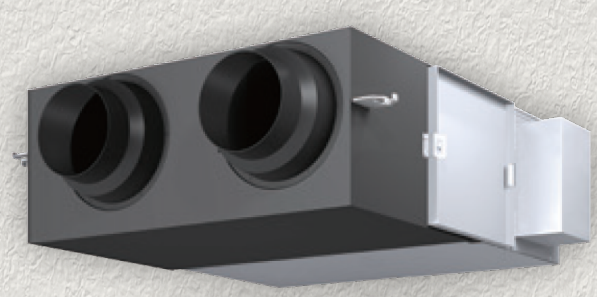
VRV

VAM-HVE

DAIKIN

Perfecting the Air

- FRESH AIR COMFORT EVERYDAY
- PERFECT FIT FOR COMMERCIAL APPLICATIONS
- ENERGY SAVINGS



BRC1H62W BRC1H62K

Stylish Controller

HEAT RECLAIM VENTILATOR

VAM-HVE VRV

DAIKIN VAM SERIES ENSURES FRESH AIR INTAKE AND ENERGY SAVINGS

Our VAM-HVE series are compact, energy efficient and can operate under a wide outdoor operating temperature range. Furthermore, improved external static pressures offer greater design flexibility to support variety of duct layouts.*

CLICK HERE TO SIGN UP TO THE DAIKIN NZ BIM PLATFORM TO ACCESS BIM MODELS AND ENGINEERING DATA

41-555L/s AIRFLOW RATE

9 MODELS

HIGH EFFICIENCY PAPER (HEP) ELEMENT

VAM-HVE uses an air to air cross flow structure, passing indoor & outdoor air through a HEP element for total heat exchange (sensible and latent heat).The HEP element has mould proof design and produced from non-flammable material.

VENTILATION MODES

1. Energy Recovery Ventilation (ERV) Mode

Heat is exchanged between the supply and exhaust air passages; energy is recovered into the outdoor air for supply into the room.

2. Bypass Mode

Ideal when outdoor air is much cooler than room air (i.e. free cooling); no heat is exchanged between the supply and exhaust air passage.

3. Automatic Mode

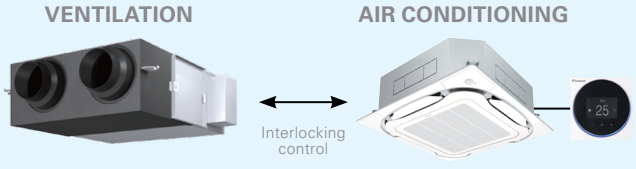
The unit will intelligently & automatically determine when to use ERV or Bypass mode to maximise efficiency/free cooling.

*Max ESP varies from 130 Pa to 235 Pa depending on the model class

ENERGY SAVING

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

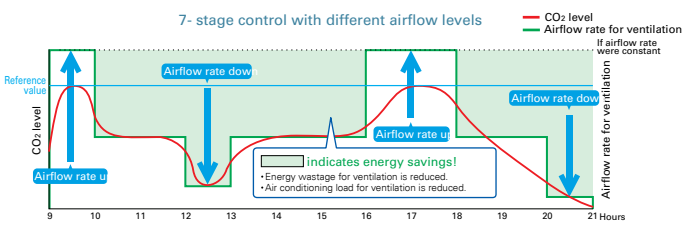
The system can be interlocked with Daikin air conditioners to provide energy saving ventilation solution for various situation.



AIRFLOW RATE CONTROL WITH CO_2 SENSOR

The CO_2 sensor controls airflow rate so that it best matches the changes of CO_2 level in the room. This prevents energy losses from over-ventilation while maintaining indoor air quality with optional CO_2 sensor. **

● Example of CO_2 sensor operation in an office room:



**CO_2 sensor is an optional accessory

SPECIFICATIONS

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) Capacity	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
	For Heating	Ultra-High	%	77.0/77.0	76.5/76.5	79.5/79.5	80.0/80.0	74.5/74.5	77.5/77.5	74.0/74.0	77.5/77.5	73.5/73.5
		High		77.0/77.0	76.5/76.5	79.5/79.5	80.0/80.0	74.5/74.5	77.5/77.5	74.0/74.0	77.5/77.5	73.5/73.5
		Low		78.5/79.0	78.5/79.0	81.5/82.0	81.5/82.5	76.5/77.0	78.5/79.5	76.0/76.5	79.5/80.0	76.5/77.0
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
	For Heating	Ultra-High	%	71.5/71.5	69.5/69.5	72.0/72.0	71.0/71.0	68.0/68.0	72.0/72.0	68.5/68.5	72.0/72.0	68.0/68.0
		High		71.5/71.5	69.5/69.5	72.0/72.0	71.0/71.0	68.0/68.0	72.0/72.0	68.5/68.5	72.0/72.0	68.0/68.0
		Low		76.5/77.0	73.0/73.5	74.5/75.0	72.5/73.5	69.5/71.5	74.0/75.0	72.0/72.5	74.0/75.0	71.0/71.5
Power Consumption (50/60 Hz)	Heat exchange mode	Ultra-High	W	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	W	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	dB(A)	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	dB(A)	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 Materialsumption				Self-extinguishable polyurethane foam								
Dimensions (H × W × D)			mm	278 × 551 × 810		306 × 800 × 879	338 × 832 × 973		387 × 1,012 × 1,110		785 × 1,012 × 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	m³/h	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	Pa	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 × 2		0.060 × 2	0.100 × 2	0.170 × 2	0.190 × 2		0.190 × 4	
Effective ventilation rate (H/M/L)		UI	%	90								
Connection duct diameterPower (H)		Indoor side	mm	100	150		200		250		250 x 4	
		Outdoor side	mm								(680 x 290) x2	
Unit ambient condition Weight				-15°C to 50°CDB, 80%RH or less								

REMOTE CONTROLLER FUNCTION

FUNCTION	DETAIL	BRC1H62W(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 CO2 sensor, ventilation volume can be changed	●	●	●
Fresh up indication	Indicates that fresh up operation is being carried out	●	-	-
CO2 indication	Indicates value of CO2 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 CO2 data	Share the CO2 data to submit from main unit with in the group	○	-	-

Note: All remote controllers are sold separately.

○ New functions ● Installed functions

Test conditions are as follows.

Condition	Indoor conditions		Outdoor conditions	
	°CDB	°CWB	°CDB	°CWB
Cooling condition	27	20	35	31
Heating condition	20	15	5	3

Notes:

1. Heat exchange efficiency is a value based on JIS B 8628-compliant performance regulations and air conditions.
2. Temperature exchange efficiency and enthalpy exchange efficiency vary depending on the air volume ratio between air supplyand exhaust and air conditions.
3. The operating sound is an anechoic room conversion value that conforms to JIS B 8628, measured 1.5 m directly below the main unit. Actually, the value is usually large due to the reflection of ambient noise.
4. The noise at the air outlet will be higher than the displayed value. If you use it in a quiet place, take measures against noise.
5. Current, power, and efficiency are the values at the above airflow rate.
6. The air condition is for a general living room, and it cannot be used in a refrigerator with a large temperature difference even if it is within the indicated value.
7. Please refer to “installation drawing” for precautions regarding installation.
8. The air volume ratio (supply air volume: exhaust air volume) must be used in the range of 10: 6 to 6: 10.
9. Specifications are subject to change.

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