Specifications

MODEL				VAM250GJVE	VAM500GJVE	VAM650GJVE	VAM800GJVE	VAM1000GJVE	VAM1500GJVE	VAM2000GJVE
Power Supply				1-phase, 220-240 V/ 220 V, 50 Hz						
Temp. Exchange Efficiency (50/60 Hz)		Ultra-High	%	75/75	74/74	75/75	72/72	78/78	72/72	77/77
		High		75/75	74/74	75/75	72/72	78/78	72/72	77/77
		Low		79/79	80/80.5	77/77.5	74/74.5	80.5/81	75.5/76	79/81
Enthalpy Exchange Efficiency (50/60 Hz)	For Heating	Ultra-High	%	71/72	67/67	67.5/67.5	65/65	70/70	65/65	72/72
		High		71/71	67/67	67.5/67.5	65/65	70/70	65/65	72/72
		Low		74/74	74/74.5	71.5/72	67.5/68	72.5/73	67/67.5	76/76
	For Cooling	Ultra-High	%	63/63	55/55	61/61	61/61	64/64	61/61	62/62
		High		63/63	55/55	61/61	61/61	64/64	61/61	62/62
		Low		66/66	59/59.5	64/64.5	64/64.5	68.5/69	64/64.5	66/67
Power Consumption (50/60 Hz)	Heat Exchange Mode	Ultra-High	W	137/141	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542
		High		120/125	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315
		Low		60/59	128/136	196/207	435/483	476/512	835/927	966/1,039
	Bypass Mode	Ultra-High	W	137/141	248/270	342/398	599/680	635/760	1,145/1,300	1,289/1,542
		High		120/125	225/217	300/332	517/597	567/648	991/1,144	1,151/1,315
		Low		60/59	128/136	196/207	435/483	476/512	835/927	966/1,039
Sound Level (50/60 Hz)	Heat Exchange Mode	Ultra-High	dB(A)	27-29/29	33-35.5/34	34-36/36	39-40.5/39.5	39.5-41.5/39.5	39.5-41.5/41.5	41.5-43.5/42
		High		26-27.5/28	31.5-34/32	33-34.5/34	37-39.5/37.5	37.5-39.5/37.5	37.5-39.5/39.5	39-43/40
		Low		21-22/21	25-28.5/24	27.5-29.5/28	35-37.5/34	35-37.5/34.5	35-37.5/36	36-39/39
	Bypass Mode	Ultra-High	dB(A)	28.5-30.5/30.5	34.5-36/35.5	35-37.5/37.5	40.5-42/41	40.5-42.5/40.5	41-43/42.5	43-45.5/44
		High		27.5-29/29.5	33-34.5/33.5	33-35.5/35.5	38.5-40/39	38.5-40.5/38.5	39.5-41/41.5	40.5-45/42
		Low		22.5-23/22.5	25.5-28.5/25.5	27.5-30.5/29.5	36-38.5/35.5	36-38.5/35.5	36.5-38/37.5	37.5-39.5/41
Casing				Galvanised steel plate						
Insulation Material				Self-extinguishable polyurethane foam						
Dimensions (HXWXD)			mm	278X810X551	306X879X800	338X973X832	387X1,111X832	387X1,111X1,214	785X1,619X832	785X1,619X1,214
Machine Weigh			kg	24	32	45	55	67	129	157
Heat Exchange System				Air to air cross flow total heat (Sensible heat+latent heat) exchange						
Heat Exchange Element Material				Specially processed nonflammable paper						
Air Filter				Multidirectional fibrous fleeces						
Fan	Type			Sirocco fan						
	Airflow Rate (50/60 Hz)	Ultra-High	m³/h	250/250	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000
		High		250/250	500/500	650/650	800/800	1,000/1,000	1,500/1,500	2,000/2,000
		Low		155/155	320/295	500/470	700/670	860/840	1,320/1,260	1,720/1,580
	External Static Pressure (50/60 Hz)	Ultra-High	Pa	70/96	105/150	85/125	133/170	168/192	112/150	116/140
		High		54/65	66/52	53/67	92/85	110/86	73/72	58/32
		Low		24/20	32/18	35/38	72/61	85/60	56/50	45/45
	Motor Output		kW	0.030X2	0.090X2	0.140X2	0.280X2		0.280X4	
Connection Duct Diameter			mm	ø 150	ø 200		ø 250		ø 350	
Unit ambient condition				-15°C–50°CDB, 80%RH or less						

Notes: 1. Sound level is measured at 1.5m below the centre of the body.
2. Airflow rate can be changed over to Low mode or High mode.
3. Sound level is measured in an anechoic chamber.
Sound level generally becomes greater than this value depending on the operating conditions, reflected sound, and peripheral noise.
4. The sound level at the air discharge port is about 8 dB(A) higher than the unit's sound level.
5. The specifications, designs and information given here are subject to change without notice.
6. Temperature Exchange Efficiency is the mean value between cooling and heating.
7. 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.
8. 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.
9. Sound level from the discharge port causes the value to be approximately 8 dB(A) (models with the airflow rate of less than 150 to 500m3/h) to approximately 11 dB(A) (models with the airflow rate of 650m3/h or more) greater than the indicated value. Furthermore, fan rotation and noise from the discharge grille may increase depending on the on-site duct resistance conditions. Please consider noise countermeasures when installing the unit.
10. With large models in particular (1500 and 2000m3/h models), if the supply air (SA) grille is installed near the main unit, the noise of the main unit may be heard from the discharge grille via the duct, and this will result in a marked increase in noise. In such cases, if peripheral effects are included (such as reverberation of the floor and walls, combination with other equipment, and background noise), sound level may be as much as 15 dB(A) higher than the indicated value. When installing a large model, please provide as much separation as possible between the main unit and the discharge grille. If the equipment and discharge grille are near each other, please consider countermeasures such as the following:
• Use a sound-muffling box, flexible duct and sound-muffling air supply/discharge grilles
• Decentralised installation of discharge grilles
11. When installing in a location with particularly low background noise such as a classroom, please consider the following measures to avoid transmission sound from the main unit:
• Use of ceiling materials with high sound insulating properties (high transmission loss)
• Methods of blocking sound transmission, for example, by adding sound insulating materials around the bottom of the sound source.
Alternatively, consider supplementary methods such as installing the equipment in a different location (corridor, etc.)