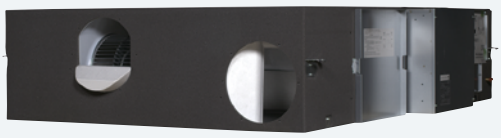
Energy recovery ventilation, humidification and air processing

Post heating or cooling of fresh air for lower load on the air conditioning system

- Energy saving ventilation using indoor heating, cooling and moisture recovery
- Pre-conditioning of incoming fresh air ensures a high-quality indoor environment
- Humidification of the fresh air maintains a comfortable indoor humidity level, even during heating
- Free cooling possible when outdoor temperature is lower than indoor temperature (e.g., nighttime)
- Low energy consumption thanks to DC fan motor
- Optional CO_2 sensor prevents energy losses from over-ventilation while improving indoor air quality
- Shorter installation time due to easy adjustment of nominal airflow rate - less need for dampers compared with traditional installations
- Operates in both over-pressure and under-pressure conditions
- Specially developed heat exchange element with High Efficiency Paper (HEP)

Up to **10% increased** enthalpic heat exchange compared to previous models increases comfort and reduces load on the A/C system



VKM80-100GBM

Fully certified according to IEC60335-2-40, maximising flexible system design

SHÎRUDO TECHNOLOGY

- **Complete peace of mind thanks to Shîrudo Technology**, integrating all refrigerant control measures from the factory, ensuring full compliance to to IEC60335-2-40
- **Full validation of the selection** will be available via selection software

Combination table

Available from summer '26

Refrigerant	Outdoor unit	Connecatble to VKM-JM
R-32	VRV 5 outdoor units	Yes
	ERA	No
R-410A	VRV VI outdoor units	Yes
	ERQ	No

Ventilation				VKM-J	50	80	100
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high/High/Low	kW	0.280/0.235/0.175	0.390/0.330/0.215	0.410/0.355/0.235
Fresh air conditioning load	Cooling			kW	4.74/1.94/3.5	7.46/2.96/4.5	9.12/3.52/7.0
	Heating			kW	5.58/2.38/3.2	8.84/3.84/5.0	10.8/4.5/6.3
Temperature exchange efficiency - 50Hz	Ultra high/High/Low			%	76/76/77.5	78/78/79	74/74/76.5
Enthalpy exchange efficiency - 50Hz	Cooling	Ultra high/High/Low		%	66/66/69	66/66/68	62/62/66
	Heating	Ultra high/High/Low		%	74/74/76	73.5/73.5/75.5	69.5/62/62
Operation mode					Heat exchange mode/Bypass mode/Fresh-up mode		
Heat exchange system					Air to air cross flow total heat (sensible + latent heat) exchange		
Heat exchange element					Specially processed non-flammable paper		
Humidifier	System				Natural evaporating type		
Dimensions	Unit	HeightxWidthxDepth		mm	387x1,764x832	387x1,764x1,214	
Weight	Unit			kg	100	126	128
Fan-Air flow rate - 50Hz	Heat exchange mode	Ultra high/High/Low		m^3/h	500/500/440	750/750/640	950/950/820
Fan-External static pressure - 50Hz	Ultra high/High/Low			Pa	200/150/120	205/155/105	110/70/55
Sound pressure level - 50Hz	Heat exchange mode	Ultra high/High/Low		dBA	41/38/35.5	41/40/35.5	41/39/35.5
Operation range	Around unit			°CDB	0°C~40°CDB, 80% RH or less		
	Supply air			°CDB	-15°C~40°CDB, 80% RH or less		
	Return air			°CDB	0°C~40°CDB, 80% RH or less		
Refrigerant	Type				R-410A/ R-32		
	GWP				2,087.5/675		
Connection duct diameter				mm	200	250	
Piping connections	Liquid	OD		mm	6.35		
	Gas	OD		mm	12.7		
	Water supply			mm	R 1/2 external thread (OD 6.4mm)		
	Drain				R3/4 external thread		
Power supply	Phase/Frequency/Voltage			Hz/V	1~/50/220-240		
Current	Maximum fuse amps (MFA)			A	15		

*Note: blue cells contain preliminary data