



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

- > Energy saving ventilation using indoor heating, cooling and moisture recovery
- > Creates a high quality indoor environment by pre conditioning incoming fresh air
- Humidification of the incoming air results in comfortable indoor humidity level, even during heating
- > Free cooling possible when outdoor temperature is below indoor temperature (eg. during nighttime)
- > Prevent energy losses from over-ventilation while maintaining indoor air quality with optional CO₂ sensor
- Shorter installation time thanks to easy adjustment of nominal air flow rate, so less need for dampers compared with traditional installation.

VKM-GBM/GB



						Heat reclaim ventilation, air processing and humidification			Heat reclaim ventilation and air processing		
Ventilation	VKM-GBM/VKM-G			50GBM	80GBM	100GBM	50GB	80GB	100GB		
Power input - 50Hz	Heat exchange mode	Nom.	Ultra high	kW	0.270	0.330	0.410	0.270	0.330	0.410	
	Bypass mode	Nom.	Ultra high	kW	0.270	0.330	0.410	0.270	0.330	0.410	
Fresh air	Cooling			kW	4.71 / 1.91 / 3.5	7.46 / 2.96 / 5.6	9.12 / 3.52 / 7.0	4.71 / 1.91 / 3.5	7.46 / 2.96 / 5.6	9.12 / 3.52 / 7.0	
conditioning load	Heating			kW	5.58 / 2.38 / 3.5	8.79 / 3.79 / 5.6	10.69 / 4.39 / 7.0	5.58 / 2.38 / 3.5	8.79 / 3.79 / 5.6	10.69 / 4.39 / 7.0	
Temperature exchange efficiency - 50Hz	Jltra high/High/Low %				76/76/77.5	78/78/79	74/74/76.5	76/76/77.5	78/78/79	74/74/76.5	
Enthalpy exchange	Cooling	Ultra hig	n/High/Low	%	64/64/67	66/66/68	62/62/66	64/64/67	66/66/68	62/62/66	
efficiency - 50Hz	Heating	Ultra hig	n/High/Low	%	67/67/69	71/71/73	65/65/69	67/67/69	71/71/73	65/65/69	
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	HeightxV	VidthxDepth	mm	387x1,764x832	387x1,7	54x1,214	387x1,764x832	387x1,7	54x1,214	
Weight	Unit			kg	100	119	123	94	110	112	
Casing	Material				Galvanised steel plate						
Fan-Air flow rate	Heat exchange mode	Ultra hig	n	m³/h	500	750	950	500	750	950	
- 50Hz	Bypass mode	Ultra hig	า	m³/h	500	750	950	500	750	950	
Fan-External static	Ultra high			Pa	200	205	110	2	10	150	
pressure - 50Hz	High			Pa	150	155	70	170	160	100	
	Low			Pa	120	105	60	140	110	70	
Air filter	Type				Multidirectional fibrous fleeces						
Sound pressure	Heat exchange mode	Ultra high		dBA	38	4	0	39	41.5	41	
level - 50Hz	Bypass mode	Ultra high		dBA	39	4	11	40	41.5	41	
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						
	On coil	Cooling	Max.	°CDB	-15						
	temperature	Heating	Min.	°CDB		43			43		
Refrigerant	Type/GWP			R-410A/ 2,087.5							
	Control			Electronic expansion valve							
Connection duct diameter				mm	200	2:	50	200	2	50	
Piping connections	Liquid	OD		mm	6.35						
	Gas	OD mm			12.7						
	Water supply	pply mm			6.4						
	Drain				PT3/4 external thread						
Power supply	Phase/Frequency/Voltage Hz/V				1~/50/220-240						
Current	Maximum fuse amps (MFA) A					15					

Contains fluorinated greenhouse gases

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