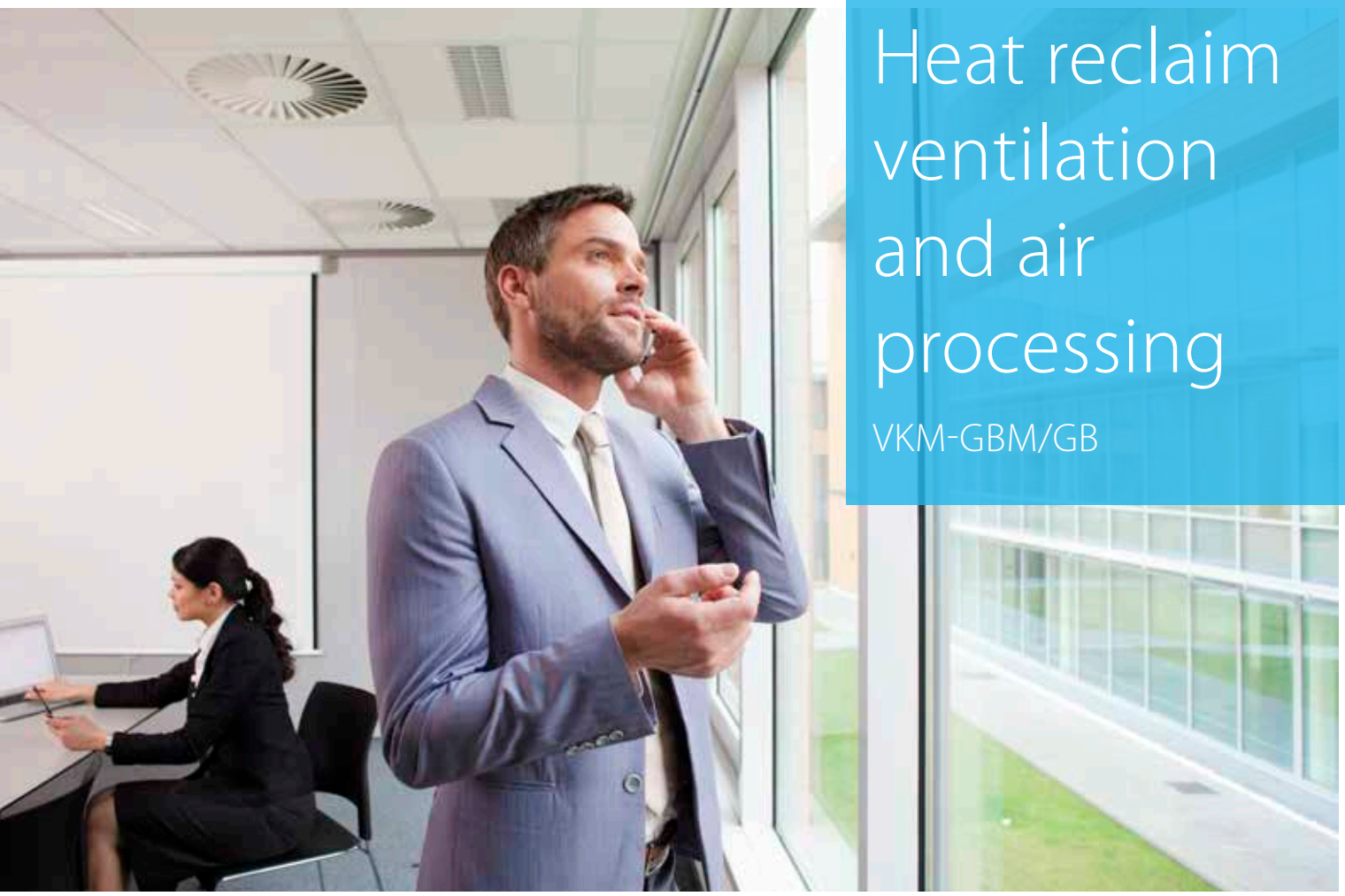

# Heat reclaim ventilation and air processing

## VKM-GBM/GB

### 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 $CO_2$ 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

VKM80-100GB(M)

| | | | | | | Heat reclaim ventilation, air processing and humidification | | | Heat reclaim ventilation and air processing | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Ventilation** | | | | **VKM-GBM/VKM-GB** | | **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 conditioning load | 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 |
| | 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 | Ultra 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 efficiency - 50Hz | Cooling | Ultra high/High/Low | | % | | 64/64/67 | 66/66/68 | 62/62/66 | 64/64/67 | 66/66/68 | 62/62/66 |
| | Heating | Ultra high/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 | HeightxWidthxDepth | | mm | | 387x1,764x832 | 387x1,764x1,214 | | 387x1,764x832 | 387x1,764x1,214 | |
| Weight | Unit | | | kg | | 100 | 119 | 123 | 94 | 110 | 112 |
| Casing | Material | | | | | Galvanised steel plate | | | | | |
| Fan-Air flow rate - 50Hz | Heat exchange mode | Ultra high | | $m^3/h$ | | 500 | 750 | 950 | 500 | 750 | 950 |
| | Bypass mode | Ultra high | | $m^3/h$ | | 500 | 750 | 950 | 500 | 750 | 950 |
| Fan-External static pressure - 50Hz | Ultra high | | | Pa | | 200 | 205 | 110 | 210 | | 150 |
| | High | | | Pa | | 150 | 155 | 70 | 170 | 160 | 100 |
| | Low | | | Pa | | 120 | 105 | 60 | 140 | 110 | 70 |
| Air filter | Type | | | | | Multidirectional fibrous fleeces | | | | | |
| Sound pressure level - 50Hz | Heat exchange mode | Ultra high | | dBA | | 38 | 40 | | 39 | 41.5 | 41 |
| | Bypass mode | Ultra high | | dBA | | 39 | 41 | | 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 temperature | Cooling | Max. | °CDB | | -15 | | | | | |
| | | Heating | Min. | °CDB | | 43 | | | 43 | | |
| Refrigerant | Type/GWP | | | | | R-410A/ 2,087.5 | | | | | |
| | Control | | | | | Electronic expansion valve | | | | | |
| Connection duct diameter | | | | mm | | 200 | 250 | | 200 | 250 | |
| Piping connections | Liquid | OD | | mm | | 6.35 | | | | | |
| | Gas | OD | | mm | | 12.7 | | | | | |
| | Water supply | | | 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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