



HIGHLY EFFICIENT FRESH AIR SUPPLY

## VN heat exchanger



### Highlights

- Available with register for heating/cooling function
- Free cooling possible
- Available with optional air humidification

Symbol photo



Cross-current heat exchanger for standalone operation or for combination with VRF outdoor units from the MiNi-SMMS-e, SMMS-e, and SHRM-e model series. Perfect heat recovery from the air-conditioned ambient air of up to 75%. Available in three variants: Air/Air heat exchanger, with register of 4.1 to 8.25 kW, with additional humidifier.



### Performance

- High energy efficiency
- Heat recovery up to 75%
- Low-noise, 3-stage fan
- Auto diagnostic system



### Flexibility

- Suitable for controlled domestic ventilation and for commercial use
- Easy-to-remove & washable heat exchanger element
- External inputs are available with an optional NRB-1HE remote adapter
- Potential-free, digital outputs as standard



### Technical details

- Air humidifier, operates according to the vapor permeable film principle
- TCB-DP31HEXE drain pump optionally available
- External receiver kit for infrared remote control possible
- Can be combined with all cable remote controls
- Additional functions available with the RBC-AMS54E-ES remote control
- Automatic restart setting after power outage

## VN heat exchanger

Technical data			VN-M1000HE1
External static pressure	Pa		70 - 105
Airflow (min./nom./max.)	m <sup>3</sup> /h		700/1000/ 1000
Air connections diameter	mm		250
Sound pressure level (low/med/high)	dB(A)	❄️	34,5/39,5/40,5
Sound pressure level (low/med/high)	dB(A)	🔥	33,0/37,0/38,0
Sound power level	dB(A)	🔥	53,0
Temperature exchange efficiency (min./nom./max.)	%		73,5/-/77,0
Enthalpy exchange efficiency (min./nom./max.)	%	❄️	60,5/-/64,5
Enthalpy exchange efficiency (min./nom./max.)	%	🔥	68,5/-/71,5
Power supply	V/Ph+N/Hz		220-240/1/50
Heat exchanger mode power consumption (min./nom./max.)	W		220/-/396
Dimensions (HxWxD)	mm		400 x 1189 x 1189
Weight	kg		62

❄️ Cooling 🔥 Heating

The measuring conditions for this product can be found at <http://www.toshiba-klima.at/en/measuring-conditions.html>



**Energy Label:** Energy label **A+ to A+++**, indicates the power consumption and energy efficiency class.



**HI POWER:** Particularly strong airflow for quickly reaching the requested temperature.



**ErP Ecodesign:** All criteria of **ECODESIGN**-guideline are fulfilled and confirm highest system efficiency.



**Auto diagnostic:** Check of system for flawless operation.



**Hybrid inverter control:** Smooth capacity regulation.



**Eco Mode:** Energy saving function.



**Rotary compressor:** Reliability and high efficiency.



**Quiet Mode:** Particularly low noise level - whispering mode.



**Twin rotary compressor:** Long-lasting, smoothly running and highest efficiency.



**Comfort Sleep:** Gradual increase of temperature by 2 °C until morning.



**R410A:** Used refrigerant: R410A.



**Power Selection:** Capacity regulation and therefore power savings of up to 25, 50 or 75%.



**R32:** Used refrigerant: R32.



**Floor Mode:** Natural floor warming effect for greater comfort.



**Wifi ready:** Optional control of the system via a smartphone.



**Preset Mode:** Activates individual settings at the touch of a button.



**KNX:** Optional KNX bus connection.



**One Touch Mode:** Fully automatic operation adapted to your needs.



**Dust filter:** Washable filter against coarse contamination.



**Timer:** Individual programming of on-/off times.



**IAQ filter:** Fine mesh filter with natural substances.



**Off Timer:** Shutdown of the unit at chosen times (30 min to 12 h).



**Active carbon-catechin filter:** Cleansing filter with enzymes from green tea.



**Week Timer:** Up to four settings per day and seven per week.



**Plasma filter: Pure Mode:** Electrostatic filter system.



**Automatic Restart:** After a power blackout.



**Air ionizer:** Negative ions cover polluted particles in the air. Dust, pollen and smoke are neutralized.



**8 °C frost protection function:** Frost protection for uninhabited rooms.



**Self-cleaning function:** Usage of condensate water for cleaning.



**Louver:** Flexible setting of louvers.



**Auto Mode:** Automatic selection between cooling and heating.



**3D Airflow:** 6 different airflow patterns in all directions.