TOSHIBA

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

Better Air Solutions

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VN heat exchanger

Technical data			VN-M150HE
External static pressure	Pa		47 - 102
Airflow (min./nom./max.)	m3/h		110/150/150
Air connections diameter	mm		100
Sound pressure level (low/med/high)	dB(A)	❄	20/25,5/28
Sound pressure level (low/med/high)	dB(A)	☀	20/25,5/28
Sound power level	dB(A)	☀	41,0 - 43,0
Temperature exchange efficiency (min./nom./max.)	%		81,5/-/83,0
Enthalpy exchange efficiency (min./nom./max.)	%	❄	69,5/-/71,0
Enthalpy exchange efficiency (min./nom./max.)		☀	74,5/-/76,0
Power supply	V/Ph+N/Hz		220-240/1/50
Heat exchanger mode power consumption (min./nom./max.)	W		42/-/78
Dimensions (HxWxD)	mm		290 x 900 x 900
Weight	kg		36

❄ Cooling ☀ Heating

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

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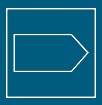
TOSHIBA Features - general overview



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

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

Hybrid inverter control: Smooth capacity regulation.

Rotary compressor: Reliability and high efficiency.

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

R410A: Used refrigerant: R410A.

R32: Used refrigerant: R32.

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

KNX: Optional KNX bus connection.

Dust filter: Washable filter against coarse contamination.

IAQ filter: Fine mesh filter with natural substances.

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

Plasma filter: Pure Mode: Electrostatic filter system.

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

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

Auto Mode: Automatic selection between cooling and heating.

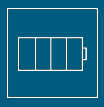
HI POWER: Particularly strong airflow for quickly reaching the requested temperature.

Auto diagnostic: Check of system for flawless operation.

Eco Mode: Energy saving function.

Quiet Mode: Particularly low noise level - whispering mode.

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



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

Floor Mode: Natural floor warming effect for greater comfort.

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

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

Timer: Individual programming of on-/off times.

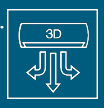
Off Timer: Shutdown of the unit at chosen times (30 min to 12 h).

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

Automatic Restart: After a power blackout.

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

Louver: Flexible setting of louvers.



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