

EVMC 150

ERCOS

HEAT RECOVERY

PRODUCT IMAGE



APPLICATION

Decentralized VMC unit with single alternating flow heat recovery, very low energy consumption. Ideal for installation in single rooms (living rooms and bedroom). Generally used in pairs with another units, synchronising flows between them to ensure a better balance

SPECIFICATIONS

Ventilating unit and internal support base made of ABS high quality, shock and UV resistant, color RAL 9010.

Infrared remote control with touch technology and base of wall bracket supplied. Made of ABS, color RAL 9010.

Aerodynamic fan, high efficiency, with "winglet" blades, that is equipped with end fins to optimize the silence and performance.

EC brushless motor with very low energy consumption thermal protection and bearing mounted ball that guarantee the product a longer life and which makes it also suitable for cold climates. Designed for reversible and continuous operation.

Regenerative heat exchanger with ceramic package, very high thermal efficiency.

Washable anti-dust filter, present on both sides exchanger.

Telescopic tube adaptable to the thickness of the perimeter wall.

External grid with gridanti-bug and drip-breaking device.

FEATURES AND BENEFITS

IPX4 spray protection degree.

Elegant design and minimalist lines, it adapts to any type of interior decoration.

The perimeter suction, with retractable hole, makes the installation even more discreet.

Front cover design easily removable for the cleaning, without the use of tools.

Multi-function remote control with LCD display conveniently view the operating status of the unit.

Back-up touch button on board the machine.

Automatic flow reversal time management (comfort mode) for maximum acoustic comfort and thermal.

Integrated multi-color LED for visual feedback status of the unit.

Smart control of humidity embedded.

Free cooling: possibility of single operation extraction or single entry to avoid recovery heat when not required.

Simplified synchronisation between multiple units (up to 10), which is automatically established when the are connected to each other, thanks to a protocol of dedicated communication.

Extremely easy maintenance, executable by the end user in maximum safety, thanks to possibility to remove the internal ventilation unit by magnetic coupling/release system.

Automatic anti-frost protection for prevent the formation of ice on exchanger.

No need for condensation discharge.

Simplified electrical connection (L and N only). Plastic totally recyclable.

Double insulation: no earthing required for maximum electrical user safety.

Testing and compliance: the unit is tested in the laboratory accredited by TÜV Rheinland, to guarantee the maximum reliability of electrical safety tests, performance and sound level measurement.

Designed and built in accordance with EN60335-2-80 (Low Voltage Directive) and the EMC Directive

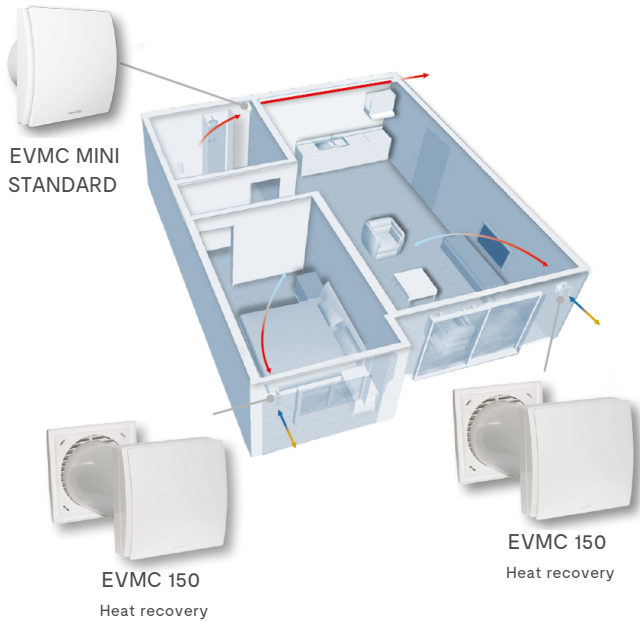
(Electromagnetic Compatibility)

FUNCTIONING

The remote control can be used to select the following functions:

- direction of air flow (flow alternate, extraction only, entry only)
- free-cooling
- OFF position
- speed (5 options)
- comfort or efficiency mode
- boost speed
- filter reset

EXAMPLE OF A COMPLETE SYSTEM INSTALLATION



Recommended solution in case of restructuring

SISTEM FEATURES

Pair of decentralized VMC units (EVMC 150 Heat recovery) to Single alternating flow with heat exchanger that allows to transfer the heat of the air extracted from indoor areas with fresh air from outside.

The two units can be synchronized with each other in the maximum acoustic comfort and managed through the same remote control; can be combined with VMC units decentralized single flow (EVMC Mini standard).

They do not require connection to any internal network of air distribution.

ENERGY SAVING

The preheated outside air which is released into the internal environments through EVMC 150 Heat recovery units, limits the need to stress the heating system.

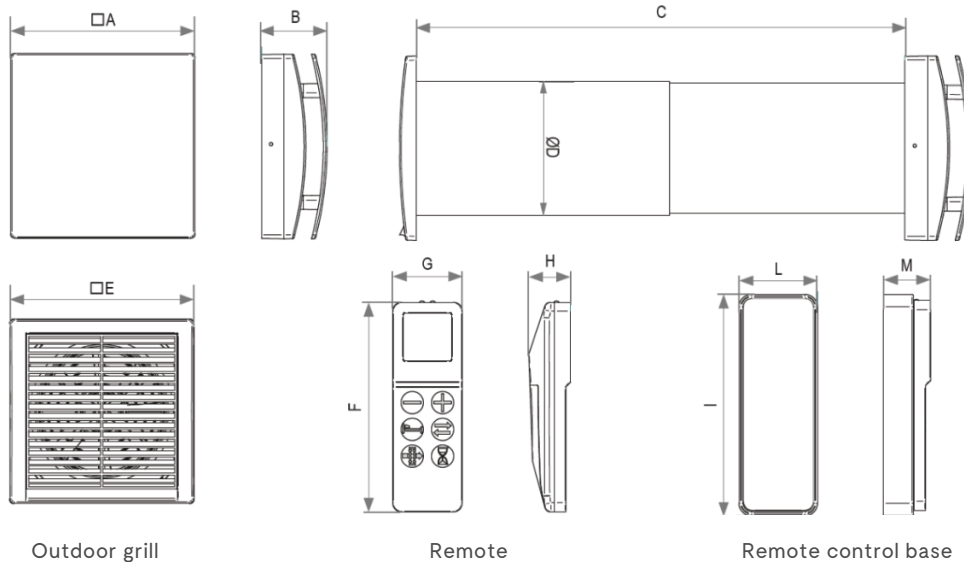
EVMC 150 Heat recovery and EVMC Mini standard VMC units are provided EC brushless motor, with energy consumption significantly reduced.

INDOOR AIR QUALITY

An appropriate mechanical ventilation system ensures the constant maintenance of the indoor air quality for the well-being and health of occupants and the building.



Regular maintenance of mounted dust filters on EVMC 150 Heat recovery units helps maintain indoor air healthier.

DIMENSIONS (mm) AND WEIGHT (kg)



Model	Code	□A	B	C	∅D	□E	F	G	H	I	L	M	Weight
Quantum NEXT 150	VMCONS4614	218	77,5	300÷560	158	218	117,5	39	23	124	44	26,5	4,3

PRODUCT DOCUMENT - ERP DIRECTIVE, REGULATIONS 1253/2014 - 1254 / 2014

Brand		ERCOS
Model		EVMC 150 HEAT RECOVERY
SEC class		A
SEC warm climates	kWh/m ² .a	-18
SEC average climates	kWh/m ² .a	-41,6
SEC cold climates	kWh/m ² .a	-82,8
Energetic Label		Yes
Unit Typology		Residential - bidirectional
Type of drive		Multi speed drive
Type of heat recovery system		With recovery
Thermal efficiency of heat recovery	%	74
Maximum flow rate @100Pa	m ³ /h	60
Electric power input at maximum flow rate	W	6
Sound power level (LWA)	dB(A)	40
Reference flow rate	m ³ /h	41
Reference pressure difference	Pa	10
Specific power input (SPI)	W/m ³ /h	0,08
Control factor		0,65
Control typology		Local demand control
Visual filter warning		Yellow led
Indoor/outdoor air tightness	m ³ /h	50
AEC - Annual electricity consumption - warm climates	kWh	0,6
AEC - Annual electricity consumption - average climates	kWh	0,6
AEC - Annual electricity consumption - cold climates	kWh	0,6
AHS - Annual heating saved - warm climates	kWh	19,5
AHS - Annual heating saved - average climates	kWh	43,1
AHS - Annual heating saved - cold climates	kWh	84,3
Flow at various speeds	m ³ /h	60 / 50 / 40 / 30 / 20
Electrical absorption at various speeds	W	6 / 4,5 / 3,5 / 2,5 / 2
Sound pressure @ 3m (1) at various speeds	dB(A)	29 / 24 / 20 / 14 / 10
Thermal efficiency at various speeds	%	70 / 72 / 74 / 78 / 82
Room temperature	°C	-20°C ÷ +50°C
IP protection degree		X4
Marking / Mark		 

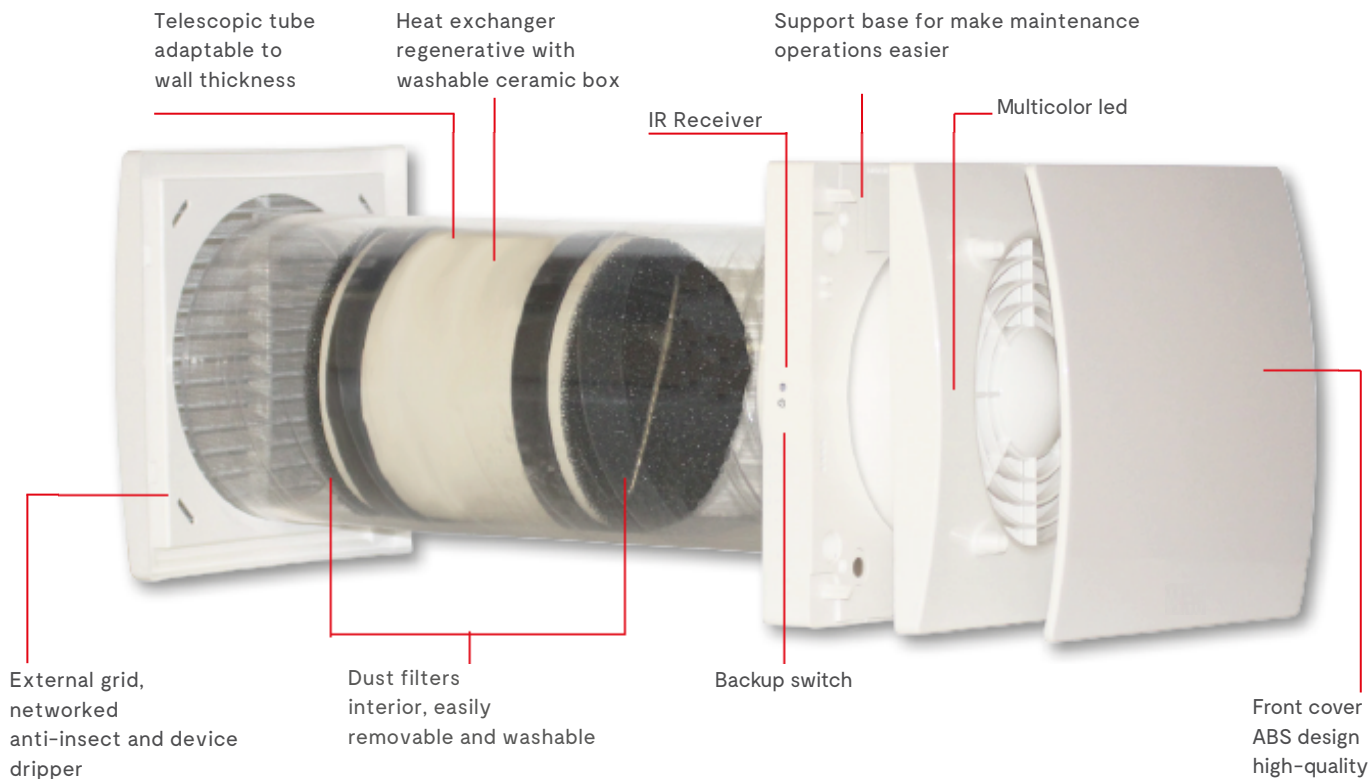
I.R. REMOTE CONTROL

Selectable functions with remote control:

- Air flow direction (alternate, only extraction, immission only);
- Free-cooling mode;
- Continuous operating speed (5 options);
- OFF position;
- Timed boost speed;
- Comfort or efficiency mode;
- Filter mode.



COMPONENTS



ACCESSORIES AND SPARE PARTS CODES

VM CON S 0972

TRM150 PRO - EXTERNAL TERMINAL PRO

VM CON S 1549

KT150HR - CLOSING KIT 2 PZ

VM CON S 3918

KFNEXT - FILTER KIT QUANTUM NEXT DN150 4PZ