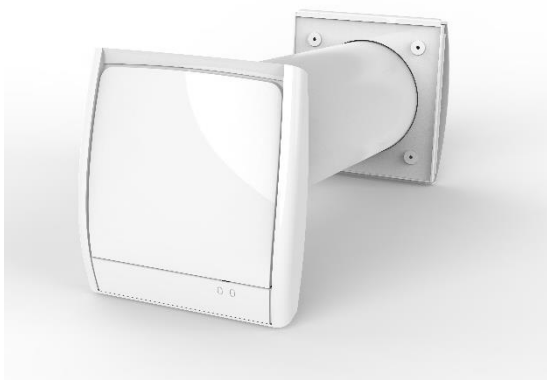


Technical data sheet: Punctual recuperator Kers Evo

Card code: XSCT00144- Date 26/02/2022

Family: Heat recovery units

Description

The Kers Evo series consists of devices used for double-flow mechanical ventilation, with heat recovery, to be installed in a hole in the wall. The units are designed to provide the individual room with the necessary amount of fresh air and to remove the exhausted air. It also recovers the heat contained in the exhausted air and transfers it to the supply air.

Each unit is equipped with:

- Energy saving EC fans with speed control.
- Ceramic heat exchanger with hexagonal cells, with efficiency up to 97% and equipped with anti-bacterial treatment.
- Class G3 filters (optional F7) installed on both sides of the exchanger to clean the intake air and protect the exchanger.
- Included remote that allows you to control the appliance without wiring ducts.
- Sound insulation from external noise of 42 dB in accordance with building regulation 5/12/97
- Sectionable, soundproof plastic duct.
- Exhaust and supply grilles

All the units, conforming to the European directives, are provided with the CE marking and the relative certificate of conformity.

Field of use

Kers Evo units are designed to perform the following functions in each individual room:

- Provide fresh air, drawn from outside the building, with a flow rate of up to 50 m³/h of fresh air.
- Recover up to 97% of the heat from the stale air extracted from the rooms to heat (in winter) and cool (in summer) the new air, before releasing it into the environment, with significant energy savings.
- Filter air coming from outside and air extracted from the locals.

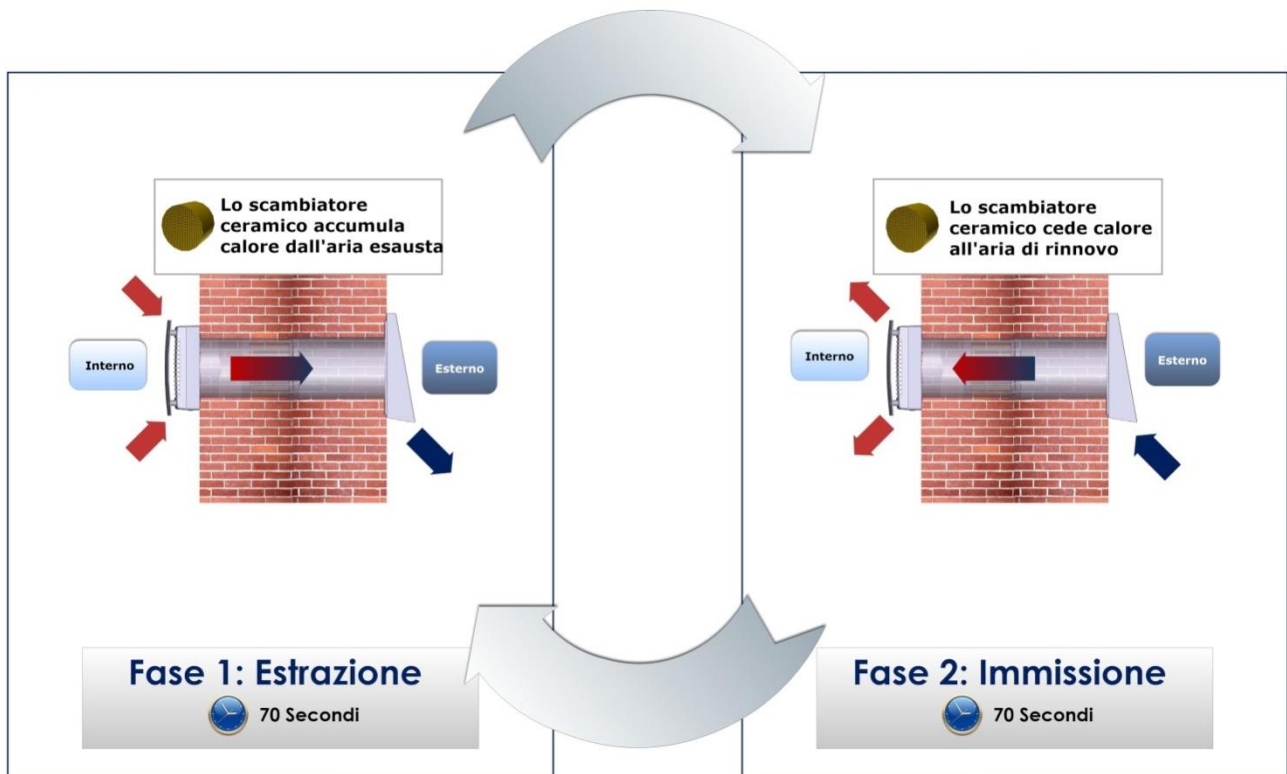
The units are designed for use in residential construction, and in particular to ventilate rooms for which it is not considered useful to install centralized systems.

They can be installed through walls and are therefore particularly suitable for the recovery and partial renovation of rooms in which mold forms due to insufficient ventilation.

The maximum air flow rate of each unit is 50 m³/h. Since they operate in alternating mode (50% of the time in extraction and 50% in injection), the effective exchange rate is 25 m³/h.

The Kers 50 Evo recuperators provide air exchange in rooms with a floor area of up to 18 square meters, while the Kers 25 Evo recuperators serve up to 9.2 square meters (calculated considering an air renewal rate of 0.5 vol/h and an internal room height of 2.7 m).

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Operation modes

The machine is equipped with a fan with EC motor with energy recovery, able to reverse the air flow inside the recuperator, it works in two phases:

Step 1:

The fan extracts the hot air from the room and sends it outside, through the recuperator. This cools the air and retains the heat in it.

Step 2:

The fan reverses the flow and draws in cool air from outside. This, in contact with the recuperator, heats up before entering the room.

The remote control, as standard, allows you to select:

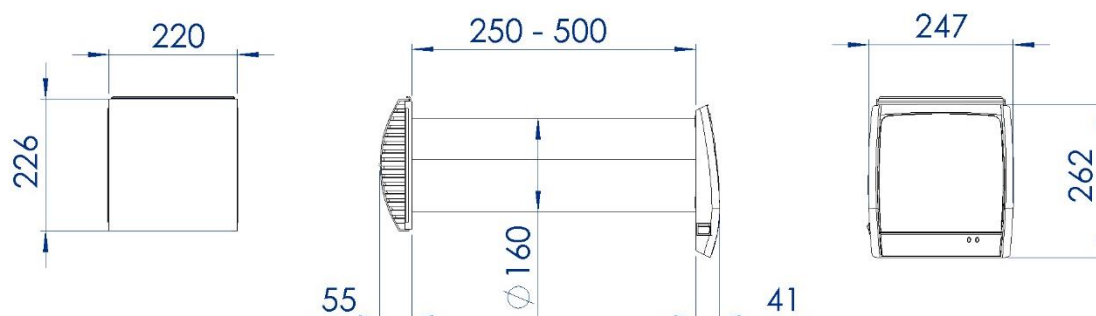
- Manual speed.
- The threshold of the desired relative humidity.
- The operation mode (automatic, input only, eject only)
- Nighttime attenuation at super minimum speed.
- Power on and off

From the buttons on the device you can:

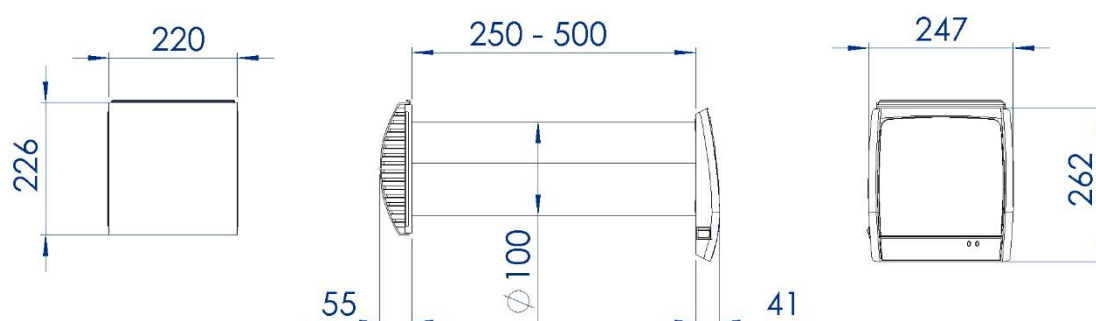
- Turn the unit on and off.

Technical drawing

Kers 50 Evo



Kers 25 Evo



Technical Data

Description		KERS 50 Evo single-room recuperator with remote control	KERS 25 Evo punctual recuperator with remote control
Code		VRKS51	VRKS26
Air flow rate at maximum speed	mc/h	50	25
Air exchange	mc/h	25	12.5
Efficiency of ceramic recuperator	%	Up to 97%	Up to 97%
Noise level at maximum speed (at 1m)	dB(A)	30	37
Noise level at maximum speed (at 3 m)	dB(A)	25	33
Noise level at minimum speed (at 1m)	dB(A)	20	33
Noise level at minimum speed (at 3 m)	dB(A)	11	28
Noise level at super low speed (at 3 m)	dB(A)	9	13
Treated air temperature	°C	-20 / + 50	
Electric power consumption vel. max	W	5.2	5.4
Electric current absorbed vel. max	A	0.031	0.032
On-board filters	-	2	
Filtration class EN 779		G3 (optional F7)	
Power	V/ph/Hz	230/1/50	
Protection	-	IP 24	

Capacity table Kers Evo

			KERS 50 Evo single-room recuperator with remote control	KERS 25 Evo single-room recuperator with remote control
		u.m.	-	
Speed III	Supply/extract flow rate	m3/h	50	25
	Effective exchange rate	m3/h	25	12.5
Speed II	Supply/extract flow rate	m3/h	30	15
	Effective exchange rate	m3/h	15	7.5
Speed I	Supply/extract flow rate	m3/h	15	10
	Effective exchange rate	m3/h	7.5	5
Acoustic attenuation of outside noise when the fan is stopped		dB(A)	42	42

Item specifications

VRKS51 - KERS 50 Evo single-room heat recovery ventilation unit with remote control

Single-room heat recovery ventilation unit, to be inserted in perimeter walls, with ceramic exchanger with hexagonal cells with very high efficiency of 97%, able to treat a maximum flow rate of 50 mc/h of air alternatively in input and in extraction, for an internal volume that can be served up to 50m³. Features windproof snap closure. Sound pressure at 3 m less than 21 dB according to UNI EN ISO 3746:1997, sound attenuation of external noise of 42 dB, energy-saving EC motor, power consumption less than 6 W. Supplied with remote control.

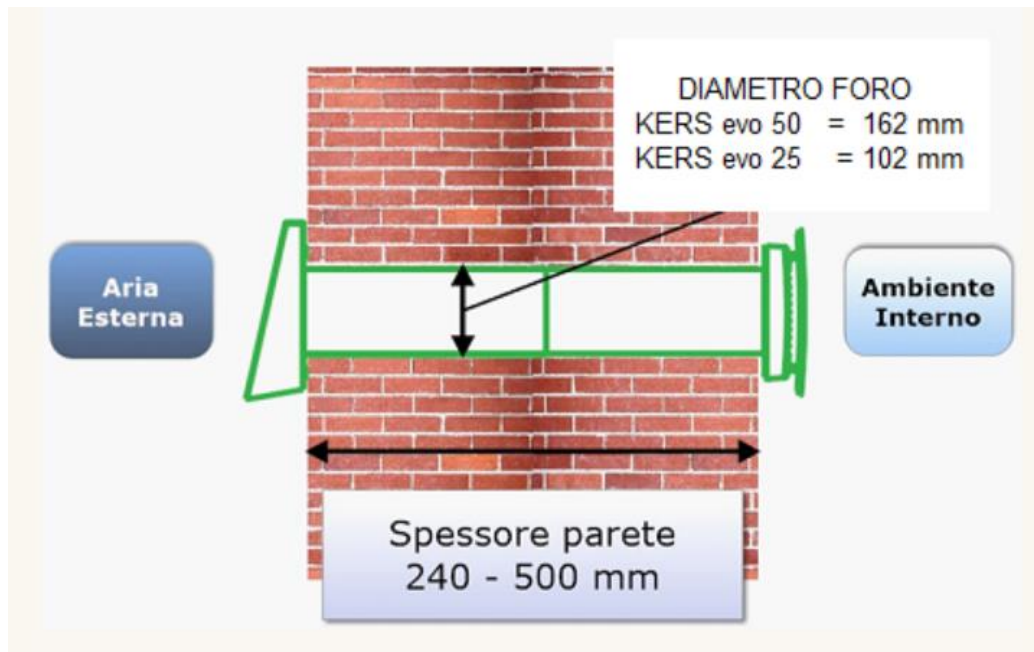
VRKS26 - KERS 25 Evo punctual recuperator with remote control

Single-room heat recovery unit, to be inserted in perimeter walls, with ceramic exchanger with hexagonal cells with very high efficiency up to 97%, able to treat a maximum flow rate of 25 mc/h of air alternatively in input and in extraction, for an internal serviceable volume up to 25m³. Quietness lower than 29 dB according to UNI EN ISO 3746:1997, acoustic attenuation of external noise of 42 dB, energy-saving EC motor, power consumption less than 6 W, supplied with remote control with humidity control.

Installation Diagram and Charts

To install the recuperator it is necessary to make a through hole in a wall in contact with the external air with the diameter indicated in the figure, the duct can be adapted to the actual thickness of the wall. Only 230 V power supply is required. Adjustment is done with the onboard pop-up buttons or with the included remote control.

Installation requirements Kers Evo

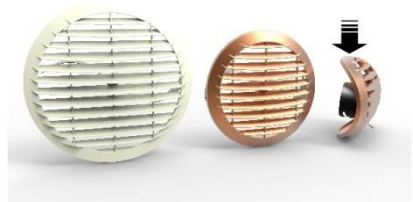


It is possible to connect to Kers a straight section of pipe with a nominal diameter of 160 mm and a maximum permissible length of 3 meters.

Installation from inside using flexible grids

For the installation of grilles on inaccessible external walls, special flexible grilles for Kers Evo are available as accessories, which allow the installation of the device completely from the inside. The codes are as follows:

CODE	DESCRIPTION
VTGF01	FLEXIBLE EXTERNAL GRILLE FOR KERS 25 WHITE
VTGF02	FLEXIBLE EXTERNAL GRILLE FOR KERS 25 COPPER COLOR
VTGF03	FLEXIBLE EXTERNAL GRILLE FOR KERS 50 WHITE
VTGF04	FLEXIBLE EXTERNAL GRILLE FOR KERS 50 COPPER COLOR



Warnings

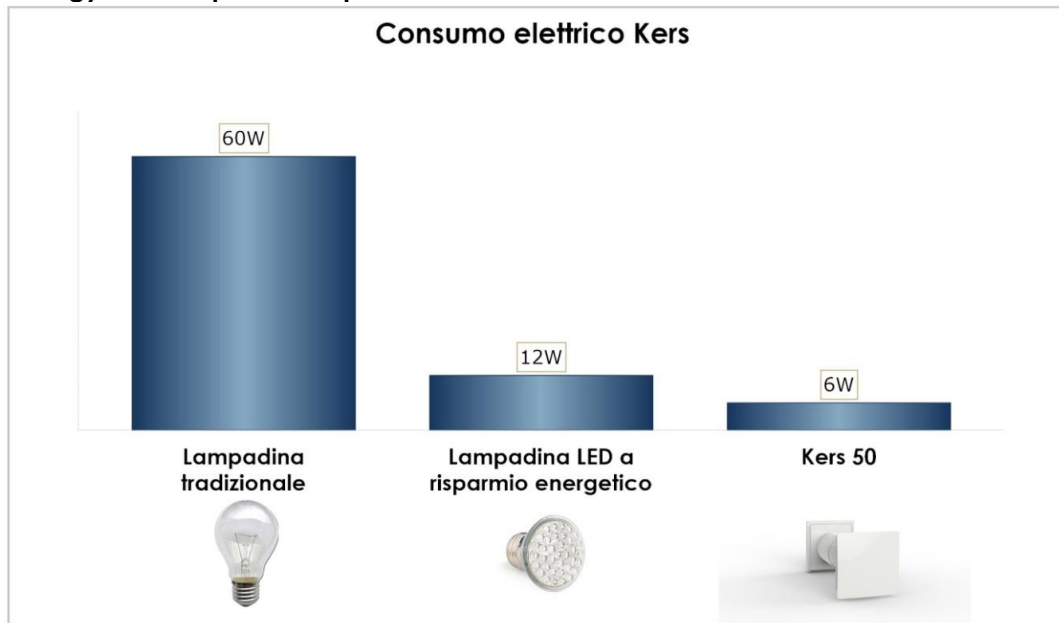


There is a risk during installation that the grille will fall to the outside. Make sure that this eventuality does not cause damage to people or property by fencing off the area outdoor if necessary.



The outdoor hood and its support supplied with the appliance should not be used if you opt for flexible grilles.

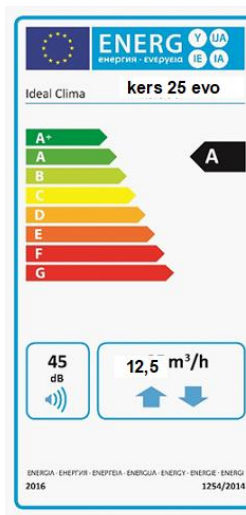
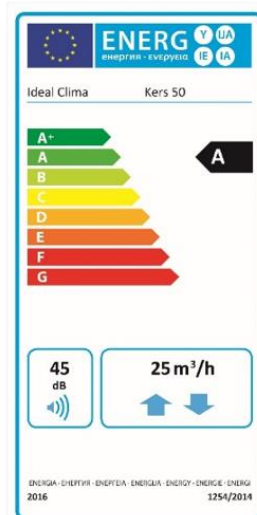
Kers Evo energy consumption comparison



Data for ENERGY LABEL purposes

Brand Model		Ideal Clima VRKS51					
		Cold		Tempered		Hot	
Specific Energy Consumption (SEC) ,	kWh/(m ² .a)	-86.5	A+	-41.8	A	-16.0	E
Type of ventilation unit	-----	Bidirectional					
Installed drive type	-----	Multiple Speeds					
Type of heat recovery ventilation	-----	Regeneration					
Efficiency Δt 13°C [η]	%	80,4					
Maximum flow rate	m ³ /h	25					
Electrical power consumption,	W	6					
Sound Power Level,	dB(A)	45					
Reference flow rate,	m ³ /s	0,0048					
Reference pressure difference,	Pa	0					
Specific power input (SPI),	W/(m ³ /h)	0,277					
Type of control	-----	Local Environment Control					
Maximum internal leakage	%	2,7%					
Maximum external leakage	%	2,7%					
Mixing rate of bidirectional units, %	%	1%					
Airflow sensitivity variations of +20 Pa and -20 Pa	m ³ /h	0,41					
Indoor/outdoor air tightness,	m ³ /h	0,49					
Internet address		www.idealclima.eu					
Annual electricity consumption (AEC), per 100 sqm	kWh electricity/a	1,9					
Annual Heating Savings (AHS),	kWh primary energy/sq.a	Cold		Tempered		Hot	
		90,4		46,3		21,0	

Brand		Ideal Clima					
Model		VRKS26					
Specific Energy Consumption (SEC) ,	kWh/(m ² .a)	Cold		Tempered		Hot	
		-77	A+	-40	A	-16.0	E
Type of ventilation unit	-----	Bidirectional					
Installed drive type	-----	Multiple Speeds					
Type of heat recovery ventilation	-----	Regeneration					
Efficiency Δt 13°C [η]	%	83					
Maximum flow rate	m ³ /h	12,5					
Electrical power consumption,	W	4					
Sound Power Level,	dB(A)	45					
Reference flow rate,	m ³ /s	0,0024					
Reference pressure difference,	Pa	0					
Specific power input (SPI),	W/(m ³ /h)	0,322					
Type of control	-----	Local Environment Control					
Maximum internal leakage	%	2,7%					
Maximum external leakage	%	2,7%					
Mixing rate of bidirectional units, %	%	1%					
Airflow sensitivity variations of +20 Pa and -20 Pa	m ³ /h	0,41					
Indoor/outdoor air tightness,	m ³ /h	0,45					
Internet address		www.idealclima.eu					
Annual electricity consumption (AEC), per 100 sqm	kWh electricity/a	1,9					
Annual Heating Savings (AHS),	kWh primary energy/sq.a	Cold		Tempered		Hot	
		87		44		20	



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