KERS

HEAT RECOVERY UNIT FOR SINGLE ROOM HRV

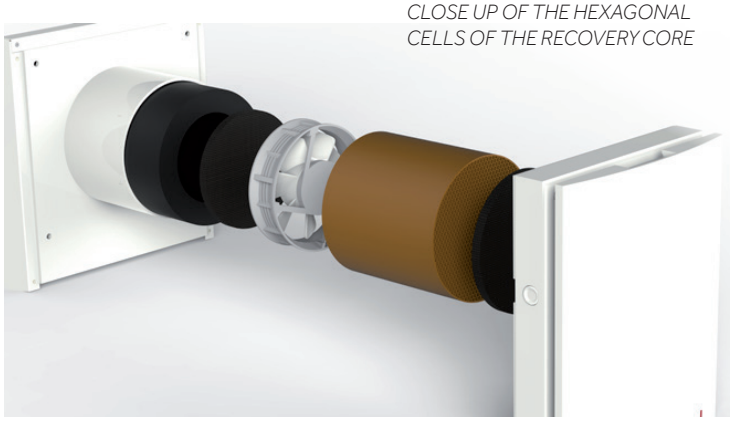
HEAT RECOVERY VENTILATION AND **NO DUCTS**

A | 11 dB SUPER QUIET | NOISE INSULATION | HEXAGONAL TECHNOLOGY | REMOTE INCLUDED | 97% HEAT RECOVERY

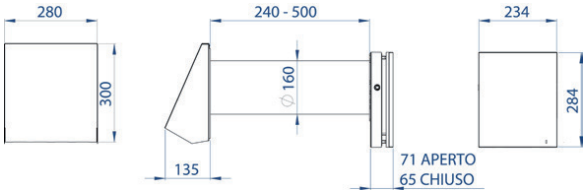
IDEAL CLIMA

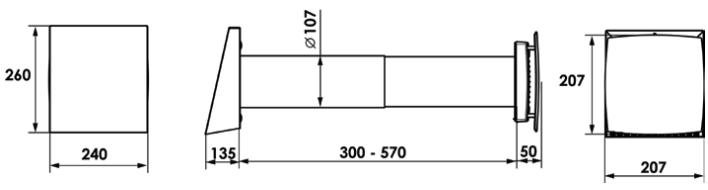
KERS is the easiest way to deploy a ventilation system in existing building. A combination of the hexagonal-cell ceramic core and inverter fan motors ensure record-setting performance. Further to that, humidity-activated ventilation and remote control are supplied as standard.

CLOSE UP OF THE HEXAGONAL CELLS OF THE RECOVERY CORE

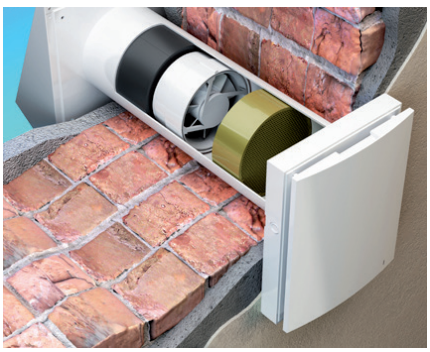


KERS.25 is suitable for heat recovery ventilation of rooms up to 10 sqm for each device. **KERS.50** for rooms up to 20 sqm. To ventilate rooms bigger than this, more than one device can be installed.

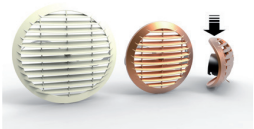




KERS can be installed virtually anywhere, it's enough to drill a hole through the wall. (Hole diameter 160 mm for KERS 50, 110 for KERS 25), wire it to power mains, and the product is ready to be used. The improved design of the indoor panel make it blend with the indoor decor.

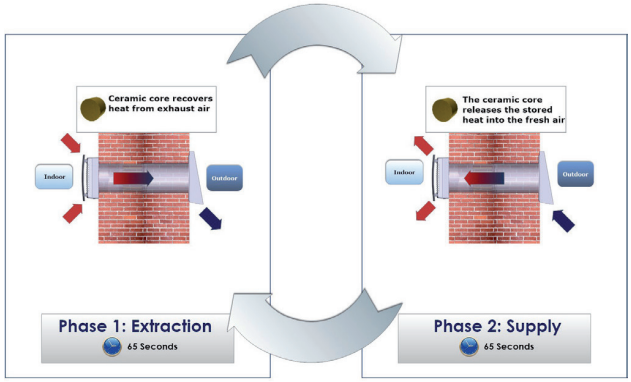


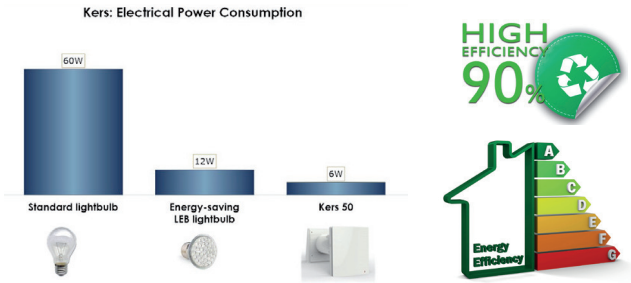
As an optional, flexible grilles are available in white or copper finishing. **They ensure a complete indoor installation of KERS without any outdoor scaffolding.**



How can **KERS** recover energy?

The device extracts exhaust air from the room for 65 seconds, the airflow goes through the ceramic core, and it heats it up. The ceramic core stores the heat for the next phase: The fan changes direction and the fresh air coming from outside goes through the same ceramic core. The core heats up the air with the previously stored energy. The result: fresh air coming from outside, at almost same indoor temperature. The same process works in summer too, so **KERS** saves energy all-year around.





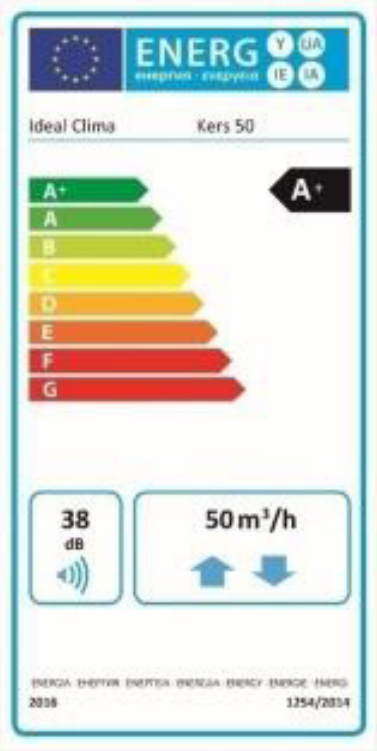
KERS needs less electrical power than a LED light bulb.

KERS is a high-efficiency heat recovery device, specifically designed to install room-by-room heat recovery ventilation system. **KERS** boasts an high-efficiency ceramic recovery core that enables it to attain a heat recovery efficiency up to 97%. If **KERS** is installed in each room, it will improve the overall energy performance of the building and its energy class.

The flow rate is up to 50 m3/h, that means that **KERS** can change the air quickly and silently, but without any energy waste. In winter the ventilation of **KERS** keeps humidity in check and thus **prevents or solves the problem of mold formation in the corners of the rooms**.

KERS can work as stand-alone, or it can be controlled via the remote control, supplied with each unit. Several operation modes (free cooling, extraction only, heat recovery, humidity-activated ventilation), make sure the optimal comfort is always at reach. **KERS** does not require any switchboard or control box to be placed in the wall, dispensing with the related masonry and wiring work.

Trade mark		**Ideal Clima**					
Model		**VRKS50**					
Specific energy consumption **(SEC),**		Cold		Average		Warm	
	kWh/(m².a)	-89,3	A+	-44,6	A+	-19,0	E
Type of ventilation unit	-------	Bidirectional					
Type of drive installed	--------	Multi-speed					
Type of heat recovery system	---------	Regenerative					
Thermal efficiency Δt 13°C **[ηt]**	%	90%					
Maximum flow rate	m³/h	50					
Electric power input	W	5,2					
Sound power level	dB(A)	38					
Reference flow rate	m³/s	0,01					
Reference pressure difference	Pa	0					
Specific power input **(SPI)**	W/(m³/h)	0,12					
Control typology	-------	Local demand control					
Maximum internal leakage rates	%	2,7%					
Maximum external leakage rates	%	2,7%					
Mixing rate of bidirectional units	%	1%					
Airflow sensitivity at +20 Pa and -20 Pa	m³/h	21 / 71					
The indoor/outdoor air tightness	m³/h	0,45					
Internet address	-------	www.idealclima.eu					
The annual electricity consumption for 100m² **(AEC)**	kWh electricity/a	0,9					
The annual heating saved **(AHS)**	kWh primary energy/m². a	Cold		Average		Warm	
		91,4		46,7		21,1	



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