



inVENTer

Decentralised Ventilation

Saving energy all year long



www.inventer.eu

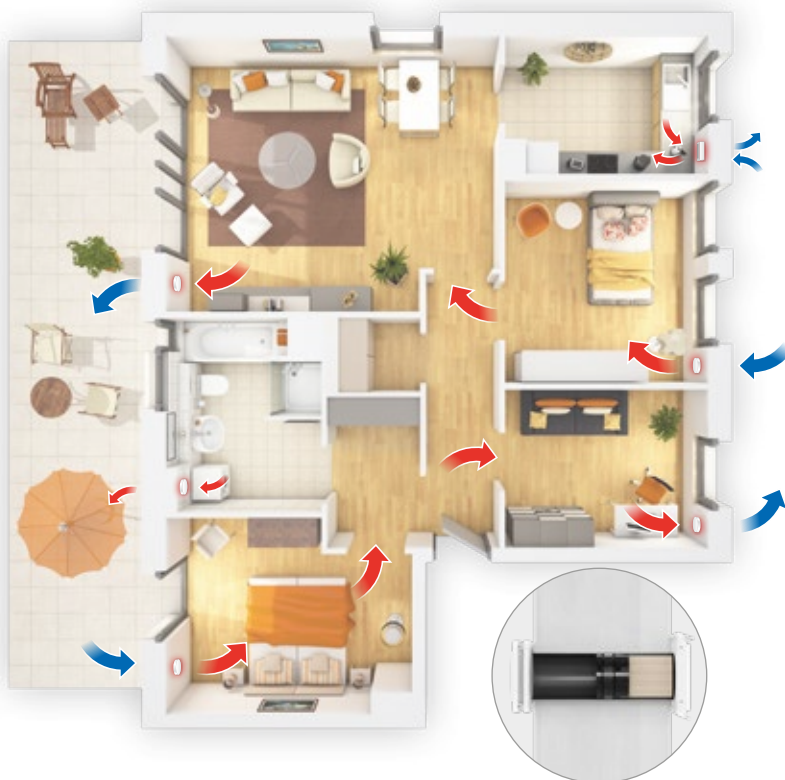


Fresh and healthy indoor air all year long

Breathing fresh air is essential for health and well-being, but in modern air-tight buildings there is almost no natural flow of fresh healthy air to the inside. Our automatic ventilation systems ensure that stale air from inside is being replaced with fresh oxygen-rich air from the outside, no matter the season of the year.

Since we started in 1999, inVENTer ventilation systems have been developed with our know-how and with highest quality in our mind, to meet your needs for the best indoor climate possible.

This is how inVENTer works



Decentralised ventilation systems by inVENTer consist of units arranged in pairs. The ventilation devices are being in-stalled into the outer wall.

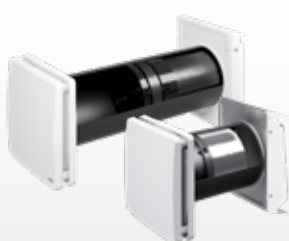
The integrated Xenion® fans bring fresh air to the inside and remove stale air in a coordinated manner. They change their direction of rotation every 70 seconds.

inVENTer decentralised systems also store existing **heating** or **cooling** energy from the air within a ceramic accumulator. During the ventilation cycle they then release the stored heat or cold back into the fresh incoming air. With this principle you save energy while heating or cooling your dwelling and at the same time improve your comfort and health.

Ventilation systems

inVENTer systems are available for different requirements, e. g. sound protection ventilation, basements, thin walls or single room ventilation.

They are being regulated with inVENTer controllers, different individual ventilation zones are possible.



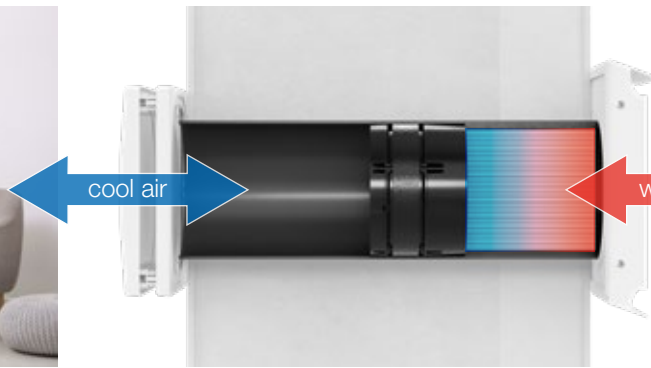
iV-Smart+ | iV-Compact ventilation devices



sMove controller

Ventilation when it is **hot** outside

inside

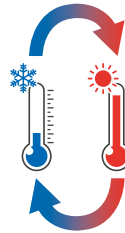


outside

Cycle 1

Extract Mode: Cool stale air is extracted from the inside, cooling the regenerator.

After 70 seconds the ventilator automatically switches to air supply mode.



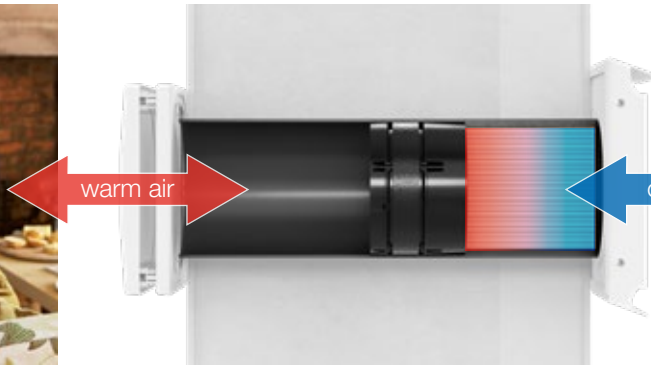
Cycle 2

Supply Mode: Fresh warm outside air passes through the regenerator and becomes cool due to the cold accumulated in it.

Cool air enters the room and after 70 seconds the ventilator switches to air extract mode again.

Ventilation when it is **cold** outside

inside

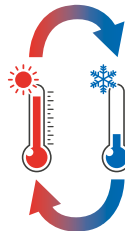


outside

Cycle 1

Extract Mode: Warm damp stale air is extracted from the inside, simultaneously heating up and moisturing the regenerator.

After 70 seconds the ventilator automatically switches to air supply mode.



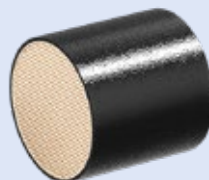
Cycle 2

Supply Mode: Fresh, but cold and dry outside air passes through the regenerator, is being humidified and warmed due to the heat accumulated in it.

Warm humidified air enters the room and after 70 seconds the ventilator automatically switches to air extract mode again.

The Regenerator

Every inVENTer ventilation system contains a regenerator, also called heat accumulator. It is made from industry ceramics which has a high heat capacity and therefore stores and releases heat very fast.



Decentralised Ventilation Systems



Technical Data

	iV14-Zero	iV-Smart+	iV-Light	iV-Compact
	Sound insulation	The powerful compact fan	Basic ventilation	Especially for thin walls
WALL THICKNESS INCL. PLASTER [mm]	> 270	> 270	> 290	> 140
AIR VOLUME FLOW [m³/h]	8.5 – 29	8.5 – 29	5 – 21	10.5 – 29
EXHAUST AIR VOLUME FLOW [m³/h]	17 – 58	17 – 58	10 – 42	21 – 58
SOUND PRESSURE LEVEL [dB (A)], 2 m	10 – 31	14 – 37	14 – 36	12 – 37
HEAT RECOVERY [%]	87	87	84	72
COOLING ENERGY RECOVERY [%]	78	78	78	65
STANDARD SOUND LEVEL DIFFERENCE [dB]	48 – 56	38 – 49	34 – 47	32

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