

Press Release

Innovation leader LUNOS sets new standards in decentralized residential ventilation with a new heat exchanger

Berlin, April 23, 2024 - LUNOS, a pioneer and market leader in the field of decentralized residential ventilation, proudly presents its latest 5th generation heat exchanger – a milestone in energy efficiency and sustainability.

Since the introduction of the e² series in 2010, LUNOS has continuously worked on innovations and is today a global leader in decentralized ventilation systems with heat recovery. More than 500,000 e² units have been successfully installed in buildings worldwide since 2011, achieving significant energy savings of about 20% in heating energy.

The current e², now in its 7th generation, has been steadily developed and optimized over the past years. LUNOS has worked closely with its customers to better understand and meet their needs and requirements. Improvements have been made in power consumption and noise development, and more environmentally friendly materials have been integrated.

The e² product family has been expanded with models such as the e²kurz and the e²mini to accommodate flexible installation situations. For the first time the innovative e⁶⁰ allows separate adjustment of supply and exhaust air volume flows, prevents crossflows and is able to produce a pure exhaust air volume flow to effectively eliminate unpleasant odors.

Since 2019, the e²60 has enriched the product family as a powerful and quiet ventilation system. Now, LUNOS proudly presents the latest achievement - a 5th generation heat exchanger. This revolutionary device was developed as a length-variable polymer-based rotary heat exchanger after intensive research and development.

Unlike traditional ceramic heat exchangers, which require high energy inputs during production, the new pbD heat exchanger uses an environmentally friendly, recyclable polymer material. Through a patented-pending injection molding process, the heat exchanger achieves optimized flow geometry and homogeneous surface flow, leading to an efficiency increase of 3 to 5 percent.

Not only environmentally friendly and energy-efficient but also quieter, lighter and more powerful: The new pbD heat exchanger allows for over 50% weight savings and reduces energy consumption during the entire manufacturing process by over 70%. Thus, LUNOS not only sets standards in ventilation technology but also in sustainable production.

The new heat exchangers mark the beginning of a series of innovations that LUNOS plans in heat recovery technology for decentralized residential ventilation systems. Customers can look forward to forward-looking technologies that maximize not only performance but also environmental friendliness.

The new heat exchanger:



The new heat exchanger in the e²60 with wireless screen:



The new heat exchanger in the e⁶⁰60 with new motor:



About LUNOS

Founded in 1959, [LUNOS Lüftungstechnik GmbH](http://www.lunos.de) is the world market leader for ventilation technology and serves an international clientele in the private and commercial sector. The company's focus is on decentralized residential ventilation, including heat recovery systems, smart home equipment, and a wide range of accessory elements.