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System x-optimised consistently thinking ahead & further developed

Kermi system x-optimised – integral, efficient solutions for heating, cooling, ventilating

Energy efficiency, thermal comfort, easy to install: For decades now, people have been associating the Kermi brand with great expertise in the area of water-based solutions using radiators and surface temperature control. Since 2013, the company also stands for heat generation with heat pumps, heat storage, and control technology, and since 2015, for controlled living space ventilation. With the suffix “+e”, in 2019, the sensible addition of many different electrical solutions in the system x-optimised is identified.

Since the company was founded in 1960, heat transfer using the medium water is at the centre of attention at Kermi. During the course of continuous optimisation, many other product solutions in the heating, cooling, and ventilation segments have been added. Currently, the focus is especially on continuous expansion of intelligent control technology and optimal use of regenerative energies.

Electrical solutions expand the system: Optimise own consumption

With the comprehensive system expansion in the area of electric solutions, Kermi is strengthening their promise of performance and an expert partner for all matters concerning heating, cooling, and ventilation. This is because, with the low heating loads in new-builds and primarily due to the option of sustainably producing electricity with photovoltaic systems, heating technology is no longer the reserved domain of water-based solutions: The use of renewable energies is increasing, heating with electricity is becoming more attractive – especially as a supplement for rooms with heat demand for short periods.

That is why electric design radiators such as Elveo have been added to the product range: It combines futuristic design with soothing infrared heat. In addition to that, the electric steel panel radiator x-therm +e as well as the x-net +e11 mat system complete the new electric solutions in

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the system x-optimised. The central x-well domestic ventilations systems can heat efficiently with electricity for low heating loads – thanks to the new x-well SA-500-E feed air outlet which can be heated as optional additional equipment.

Whether using domestic ventilation, using design or steel panel radiators, or with panel heating: If the PV power you have produced yourself is used directly for heating, then the own consumption share increases. This is definitely cost-effective in view of the feed-in tariff which is small and will soon expire. Furthermore, the x-change dynamic heat pumps can be ideally combined with a PV system through the integrated Power-to-Heat and SmartGrid function.

Special heat pumps are the solution of the future when it comes to heating, as the heat can be exclusively obtained from regenerative energies. To allow continued development of the combination of heating and power storage to improve efficiency and optimise own consumption, Kermi is now cooperating with the power storage manufacturer Fenecon – for future-proof heating solutions that are as self-sufficient as possible.

Intelligent, user-friendly control technology – for maximum efficiency and cosy comfort

Being able to heat and ventilate precisely on demand increases efficiency and comfort. That is why the control technology is considered to be particularly important in the Kermi system x-optimised. Because what use are the most efficient products if their control and networking are not right. Kermi always focuses on a standardised, simple control concept. All the components in the system x-optimised are fitted with intelligent, intuitive control units. Apart from classic control, many multi-functional control elements have been integrated or are available as an option.

That is why with the x-center x40 control of the heat pumps fitted as standard, it not only allows the PV to be linked in, but for example also makes cascading and remote maintenance possible. The bathroom and design radiators with additional electric operation or pure electric operation can be controlled using room control units of various comfort levels. The new WRX control unit offers among other things energy-saving E-ink technology, intuitive touch display, and can be removed from the wall holder.

The heart of the control components is the x-center base comfort and energy manager which can become a Smart Home solution with the entire system. It is simply integrated by Plug & Play, completely without any separate software. Thanks to the open EnOcean wireless protocol, it is easy to integrate building technology products from other manufacturers – providing maximum flexibility. In finely tuned systems including interface optimisation and demand-lead flow temperature control, this results in energy savings of up to 36 %.

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Heating, cooling, ventilating: The system x-optimised stands for optimal use of renewable energies and the intelligent combination of water and electricity based products. In new-builds, when renovating and refurbishing, components that are optimally coordinated to work together and intelligent control ensure planning, installation, and functional security.



New to the system x-optimised are numerous electrical solutions – such as the Elveo design radiator: It combines futuristic design with soothing infrared heat.

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The control technology is considered to be particularly important in the Kermi system x-optimised. That is why with the x-center x40 control (left) of the heat pumps fitted as standard, not only allows the PV to be linked in, but for example also makes cascading and remote maintenance possible. The new flexible control unit WRX (right) for electrically operated design and bathroom radiators offer among other things energy-saving E-ink technology and an intuitive touch display.

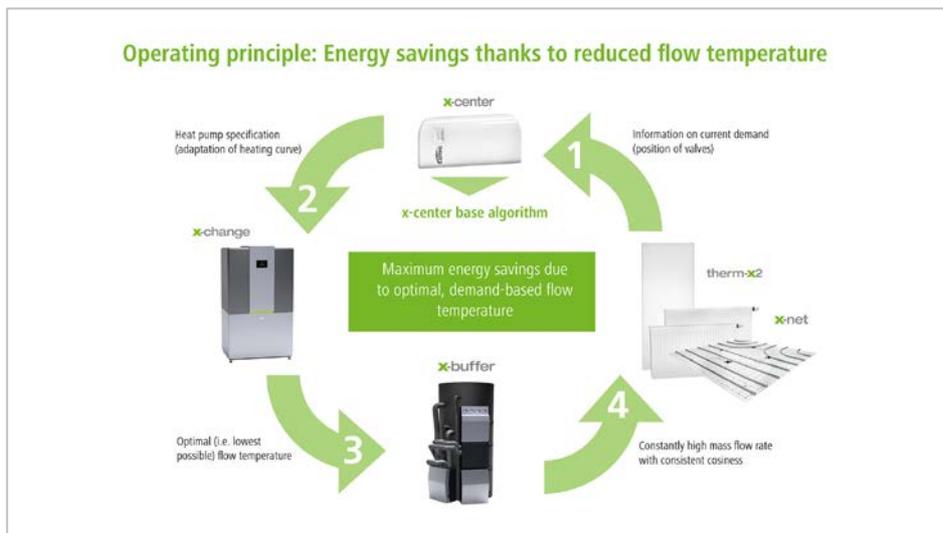


The Kermi system x-optimised offers a range of different solutions for today's requirements of modern, efficient, and future-proof heating, cooling, and ventilating. The focus is on optimal use of regenerative energies and continuous expansion of intelligent control technology.

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The heart of the control technology in the Kermi system x-optimised is the comfort and energy manager x-center base which optimally connects all the components of the heating and ventilation technology. In finely tuned systems including interface optimisation and demand-lead flow temperature control, this results in energy savings of up to 36 %. With x-center base, it is also quite easy to turn the system into a flexible Smart Home solution.

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APPENDIX – Kermi system x-optimised. The components.

- **Generating heat with the x-change heat pumps**

Heat pumps are the heat sources of the future. The x-change dynamic heat pumps that Kermi offers are available in the operating modes air/water, brine/water, and water/water models in different output levels respectively. They are impressive with their high efficiency and virtually silent operation. Their modulating technology reduces power consumption. They are also fitted with SmartGrid load management and make use of the Power-to-Heat function to sustainably convert PV electricity into heat. All models are available with a cooling function and cascade switching as an option.



- **Heat storage with the x-buffer heat storage unit**

The energy produced by the heat pumps is stored in the Kermi x-buffer heat storage units without losses due to the high quality insulation and is made available on demand. Various models are available, such as the x-buffer layered buffer storage with an efficient layering process developed by Kermi and with an optional connection to a fresh water station. Models such as the x-buffer combi are ideal for space-critical areas, include the buffer and hot water storage and can be used for heating and cooling operation.



- **Heat transfer with radiators & panel heating**

For efficient heat transfer, Kermi offers a wide range of products: Award-winning bathroom/design radiators, energy-saving therm-x2 steel panel radiators, or versatile x-net steel panel radiator heating/cooling. With a range of different designs, variants, and installation options, they offer solutions for every application – including for renovation. The product range included water and electricity based solutions for you to be able to efficiently use PV power you have produced yourself.



- **Better room air with x-well domestic ventilation**

With the x-well controlled domestic ventilation, Kermi offers a wide range of central and decentralised ventilation solutions which, through integrated sensors, ensure reliable air exchange with efficient heat recovery. The amazingly low noise x-well devices are not only suitable for new-builds, but can also be fitted retrospectively. In addition to private housing construction, special solutions for building construction and the housing sector are available in the x-well product range.



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- **Smart control with x-center base**

Efficient heating means intelligent control. That is why all the components in the Kermi system x-optimised are fitted with control units as standard, which control operation to suit demand. However, not only the individual elements can be controlled: the Kermi x-center base energy and comfort manager networks all components in the system and also takes the room-related data into consideration for real demand-based flow temperature control. As the heart of the Smart Home solution, it ensures highest efficiency and simple control. Thanks to the EnOcean interface, it is easy to integrate additional building technology products.



**Source of all pictures:
Kermi GmbH**