



PRESS RELEASE

Cooperation for the heating concept of the future

On the way to an energy self-sufficient house – heat generation meets energy storage

Apart from a heat pump and a photovoltaic system, another important component of a sustainable heating concept is to be able to store electrical energy. To make full use of this system potential on the way to an energy self-sufficient house and to further optimise it, the thermal comfort specialist Kermi and the storage manufacturer Fenecon are working together: Heat generation meets power storage – for an optimally synchronised, future-proof solution.

When installing a heating system, an complete energy concept is being increasingly requested which promises independence from fossil fuels and from the electricity suppliers. That is why the Kermi system x-optimised already includes the x-change dynamic heat pumps including the x-buffer heat storage.

The modulating x-change dynamic heat pumps are very impressive due to their high efficiency and low noise emissions. The smart x-center x40 controller is included as standard. This offers a range of functions, such as virtually silent operation, cascade switching, or the optional remote servicing. The Power-to-Heat function is also integrated, allowing intelligent use of photovoltaic electricity.

Focus on optimisation of own consumption

Power storage is an optimal addition allowing you to use the PV electricity you have generated more efficiently: You store the electricity you have produced to be able to supply your household with it at any time. This is well worthwhile due to the low feed-in tariffs being paid and is becoming increasingly important due to subsidies under Germany's Renewable Energy Sources Act (EEG) falling from 2020 onwards.

A combination of a heat pump, buffer storage, PV system, and battery power storage enable the best-possible energy self-sufficiency and own consumption optimisation: The power from the PV system is initially made available to all the electrical consumers including the heat pump. If there is still excess power after this, then it is saved in the power

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PRESS RELEASE

storage unit. So your household initially uses electricity you have produced yourself before sourcing any electricity from the public grid. Once the power storage unit is full and if there is still excess energy available, then the heat pump is set to increased operation. It in turn generates thermal energy to be stored which is then stored in the heat storage unit.

Heat pump + power storage unit = sustainable heating concept

With Fenecon, Kermi now has an expert partner for storing electrical energy at their side. In recent years, the storage unit manufacturer from Deggendorf in Lower Bavaria has developed to become a well-known provider of power storage solutions and with this experience, optimally augments the heating technology expertise of Kermi.

The interaction between the PV system, Kermi heat pump, and storage, combined with the power storage unit from Fenecon provides a future-oriented heating concept: Including the Kermi domestic ventilation with heat recovery, this means that the requirements of KfW 40 Plus are also met – the standard of the future. A high degree of self-sufficiency and therefore independence from fossil fuels, as well as supply security in the event of electricity supply bottlenecks. Capacity can be extended on a modular basis. The option to connect with electric mobility is also future-oriented.

Thanks to the cooperation, Kermi customers now have a reliable contact at their disposal if as part of their planning and installation of heat pumps, they also want to store electricity. The aim of the cooperation is to provide further joint developments and optimisations for efficient combination of heat system and energy storage. The focal point of this also includes simple planning, processing, and installation, as well as a higher degree of self-sufficiency for the customer.

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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.

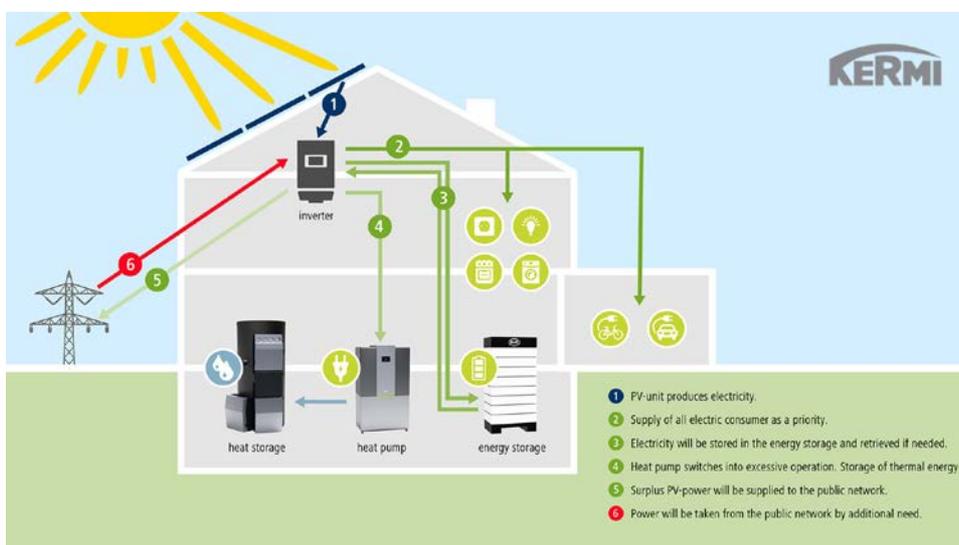


The interaction between the Kermi heat pump & storage, as well as a PV system and the Fenecon power storage unit provides a future-oriented heating concept: Including the Kermi domestic ventilation with heat recovery, this means that the requirements of KfW 40 Plus are also met – the standard of the future.

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The modulating x-change dynamic heat pumps are very impressive due to their high efficiency and low noise emissions. The smart x-center x40 controller is included as standard – functions such as SmartGrid and Power to Heat for intelligent use of PV electricity are already integrated here.



Heat pump, buffer storage, PV system, and batteries power storage allow the best possible energy self-sufficiency and own consumption optimization.

Source of all pictures: Kermi GmbH