

OBJECT OF THE MONTH



LOW-ENERGY HOUSE, CARINTHIA

In 2018 the first phase of the innovative construction project was completed, the centrepiece of the low-energy house being the compact heat pump combi unit PKOM⁴ from Austrian research and production. It unites all four functions (heating-cooling-ventilation-hot water) on a footprint of less than 0.75 m². The controlled ventilation permanently supplies the rooms of the single-family house with fresh and filtered air from the outside and ensures the hygienic exchange of air. With its smart functions the PKOM⁴ can furthermore be easily combined with renewable energy like that of a photovoltaic system and a storage battery.

The next expansion level of the construction project towards an even more energy-efficient overall system is therefore already being planned. It's about retrofitting the energy management system designed by Pichler with the objective of making the low-energy house independent and secure. Therefore the housing technology system with the PKOM⁴ constitutes an innovative system solution that makes a substantial contribution to climate and environmental protection.

DATA & FACTS

Location:	Carinthia
Completion:	2020
Type of building:	Low-energy house
Heating demand (for heating, cooling, hot water, ventilation):	11,9 kWh/(m ² a)
Energy reference area:	122 m ²
Overall power consumption:	6.221 kWh/year
Energy demand (for heating, cooling, hot water, ventilation):	11,9 kWh/m ²
Power generation:	7.495 kWh/year
Products:	Heat pump combi unit PKOM ⁴

Product groups:

COMFORT
VENTILATION

