

Example 2

PV energy warms the water through the electrical heater R1 in the tube heat exchanger for the drinking water. In case of the insufficient solar energy, the desired temperature is reached by means of a wood/oil fired boiler.

Example 3

Solar electricity warms up the water in the domestic water tank via electrical heater R1. After reaching the pre-set temperature, KTR4 activates heater R2 to heat water in the additional tank. The cold water is preheated in the tube exchanger and enters the domestic water tank ensuring that the entire amount of energy accumulated in the big water tank is consumed.

Example 4

The heat pump maintains the preset temperature of the water. Solar electricity warms up the water in the domestic water tank by the electrical heater R1. The preset temperature of the heat pump is lower than the preset temperature of the KTR4 controller so the PV heating is always preferential.

Domestic Water Heating with Photovoltaic How to use the KTR4

The PV heater can be integrated into existing heating systems





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