



MĀRUPES  
DĀRZS



hepsor

# RECUPERATION SYSTEM

A recuperation system is a forced ventilation system providing air exchange in the premises. The added value of the system is the maintenance of constant temperature by using the air present in the premises and its temperature. It means that the air is drawn from outside and fed through recuperation equipment where the heating element is heated with the temperature of the indoor air. Namely, energy from current air is given away to cooler air thus one must not heat the room with heating elements. The hot temperature of air during summer is partially cooled from the outside with relatively cooler indoor air.

According to 222.MK, the building meets the energy efficiency level of class A.

## BENEFITS:

- The supplied air is oxygen-rich
- Air is being filtered hence no dust accumulates in the premises, on the floor and window gaskets, which usually damage the tightness of the construction product
- The premises are ventilated without opening the window and do not require additional heating
- Reduced energy consumption
- Reduced cleaning times and volumes
- In the long term – better health, improved sleep quality, less energy consumption bills, longer service life of windows' gaskets, less water and detergent consumption etc.
- Additional benefits – improved ability to work, better health due to improved sleep quality, less illnesses etc.

A

Class A  
energy efficiency

# SOLAR COLLECTOR

The solar thermal collector operates by obtaining thermal energy from absorption of sun rays. The absorbed thermal energy is used for heating up the water, which is used for household needs. The system consists of collectors arranged on the building's roof, and hot water boiler, pump, system control unit in the building's heating unit. The system ensures transfer of thermal energy from the heated collectors to the building's central boiler depending on the set operational parameters. The necessary water temperature in the boiler is reached by using mainly solar thermal collector energy. If collectors are not able to heat the water up to the desirable temperature, the necessary temperature difference is heated by a gas boiler.

## BENEFITS:

- Down to zero-cost water heating thus reaching considerable energy savings over a year;
- Savings from total energy consumption;
- Use of environmentally friendly and renewable energy;
- Increase in the value of the real estate;
- Additional energy generation source.

A

Class A  
energy efficiency