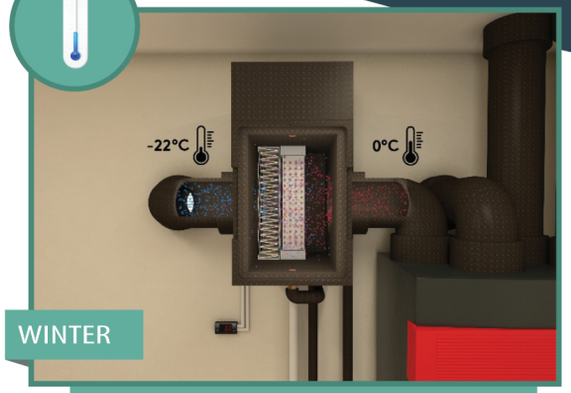
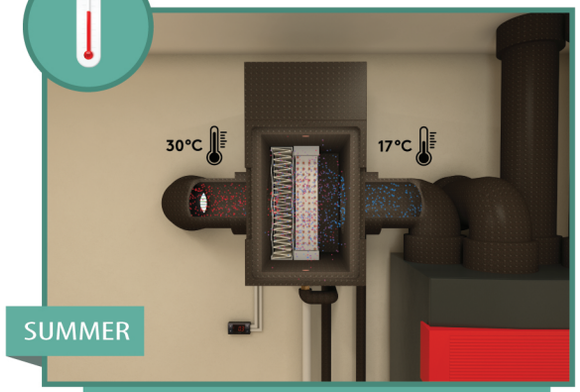
ADVANTAGES



- Ground heat exchanger and heat recovery unit achieve high efficiency pre- heating of incoming air;
- Ventilation unit is protected from freezing;
- No de-icing function in the ventilation unit required and all year-round operation possible;
- Energy saving;
- Non-reliance on fossil fuels through the use of renewable energy.



- Increased comfort through cooled air;
- Cooled incoming air to prevent the building from overheating in high summer;
- Energy saving;
- Reduction in noise from not having windows open.

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GHT

GEOTHERMAL
TECHNOLOGIES

MADE IN LATVIA

PRODUCTS

Geothermal energy generator is ground heat exchanger that has been developed to use with heat recovery ventilation units.

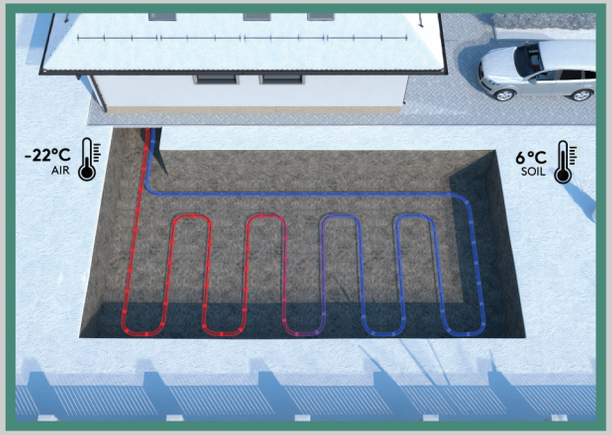
During cold winter season energy generator will prevent ventilation unit heat exchanger from freezing and damaging.

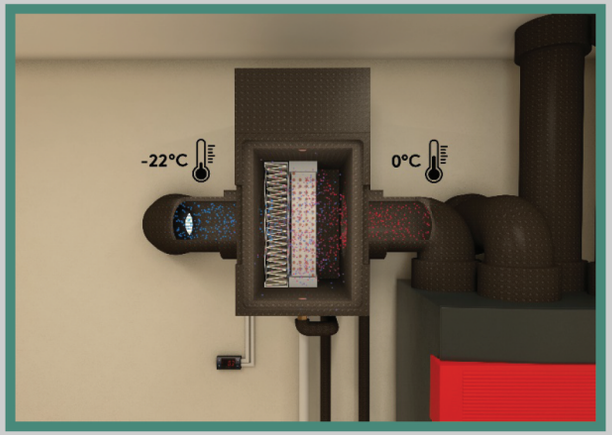
During hot summer period it will cool the incoming air and generate pleasant indoor environment.

CONTROLLER

Optional - a controller can be used to ensure proper operation of the energy generator.

WINTER PERIOD

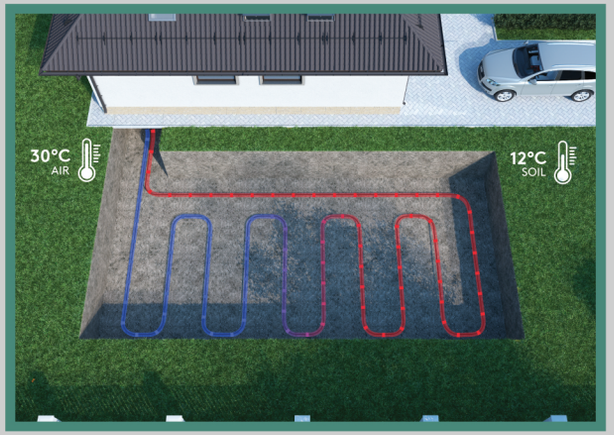




In cold winter times energy generator heats up the incoming air to ensure proper operation of the ventilation unit. Geothermal energy generator uses ground heat, that has a temperature of +5°C to +8°C in a 1,5m to 2,5m depth, thus preheating the incoming air.

By consuming **0.05kW** of power the gain is up to **5kW** of heating power

SUMMER PERIOD



Geothermal energy generator uses ground coolness, that has a temperature of +10°C to +14°C in a 1,5m to 2,5m depth of the ground, ensuring cooling of the incoming air.

By consuming **0.05kW** of power the gain is up to **5.5kW** of cooling power.