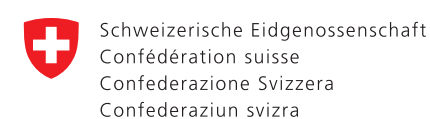


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SEALS EVERY LAST LEAK

Energy-saving measures are standard features of today's buildings and are usually applied to the whole structure – from the facade to the windows and right up to the roof. But there's a missing piece of the puzzle that no one has been able to solve until now: the open stack for ventilation. When a toilet is flushed, for instance, this kind of opening prevents negative pressure from forming and traps from being blown empty. The result is constant heat loss via the drainage system. In the future, the innovative Geberit energy retaining valve ERV will help you say goodbye to this problem. It only opens when necessary and simply works to ensure pressure compensation when required. This prevents unnecessary heat loss.

In partnership with



Swiss Federal Office
of Energy SFOE

■ GEBERIT

GEBERIT ENERGY RETAINING VALVE ERV

THE PINNACLE TO A BETTER ENERGY EFFICIENCY



KNOW
HOW
INSTALLED

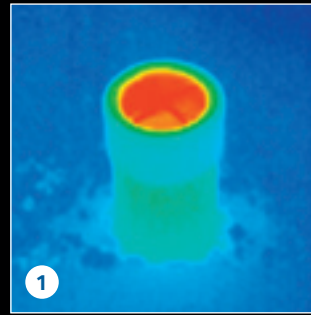
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HEAT LOSS FROM THE ROOF

Looking through an infrared camera reveals clear differences in surface temperature, which are especially visible in cold weather.

1 WITHOUT GEBERIT ENERGY RETAINING VALVE ERV

Permanent heat loss through the discharge pipe that is open at the top.



2 WITH GEBERIT ENERGY RETAINING VALVE ERV

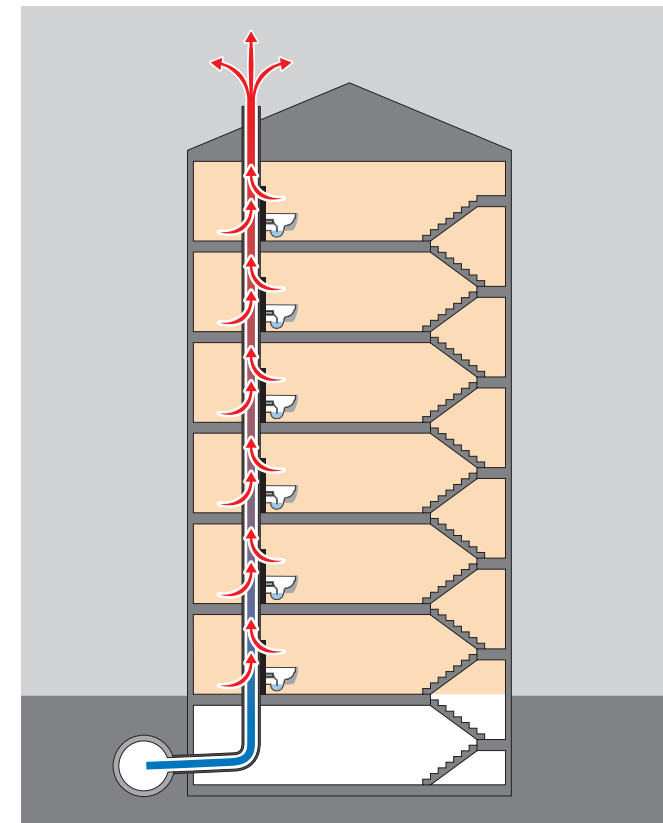
If pressure compensation is not required in the drainage system, the discharge pipe remains securely sealed.



GEBERIT ENERGY RETAINING VALVE ERV WASTE WATER WITHOUT AN OPEN END

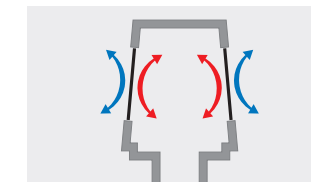
The Geberit energy retaining valve ERV seals the ventilation pipe for waste water above the roof using a patented magnetic diaphragm system. This system opens automatically when pressure compensation is required. The rest of the time, it retains heat inside the building. Overpressure from the sewage system can escape via the Geberit energy retaining valve ERV, as the diaphragms open in both directions. The Geberit energy retaining valve ERV therefore meets the requirements of the standard SN 592000.

VISIBLE HEAT LOSS WITHOUT GEBERIT ENERGY RETAINING VALVE ERV

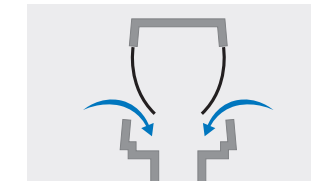


Working on behalf of the Swiss Federal Office of Energy SFOE, the School of Engineering and Architecture at Lucerne University conducted a study on heat loss from functional openings in building shells. Findings from this study show that heat is lost via the weathering slates.

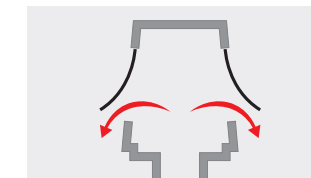
NEEDS-BASED VENTILATION



When there is no waste water flowing through the stack, the diaphragms stay closed – preventing energy loss



If negative pressure arises when a toilet is used, for instance, the diaphragms open and air flows into the system



They also open if they need to compensate for high levels of overpressure from the sewage system.

- Save energy without losing functionality – up to 50 litres of heating oil per year can be saved in this way*
- Can be mounted onto a diameter of d110 and adapted to suit all common installation types
- Maintenance-free with protection against insects and frost resistance
- Can pay for itself within five to ten years
- Prevents unpleasant odours from the stack



EASY INSTALLATION WITHOUT ANY EXTRA EFFORT

The Geberit energy retaining valve ERV is quick and easy to attach to any ventilation pipe for waste water, using standard product materials for d110 pipes. Once installed, the Geberit energy retaining valve ERV is able to withstand the effects of the environment and weather, and does not require any maintenance.

POSITIVE EFFECTS THAT PAY OFF

Depending on the building structure, location and weather conditions, a Geberit energy retaining valve ERV installation can pay for itself within five to ten years*. People who use roof terrace areas can also benefit from the Geberit energy retaining valve ERV, as it prevents unpleasant odours escaping from ventilation pipes.

* Calculations are based on model calculations using air temperatures in Lucerne, Switzerland for a multi-storey building and uninsulated stacks.