

HUSH

silence your heat pump



The new age of sound reduction is here.

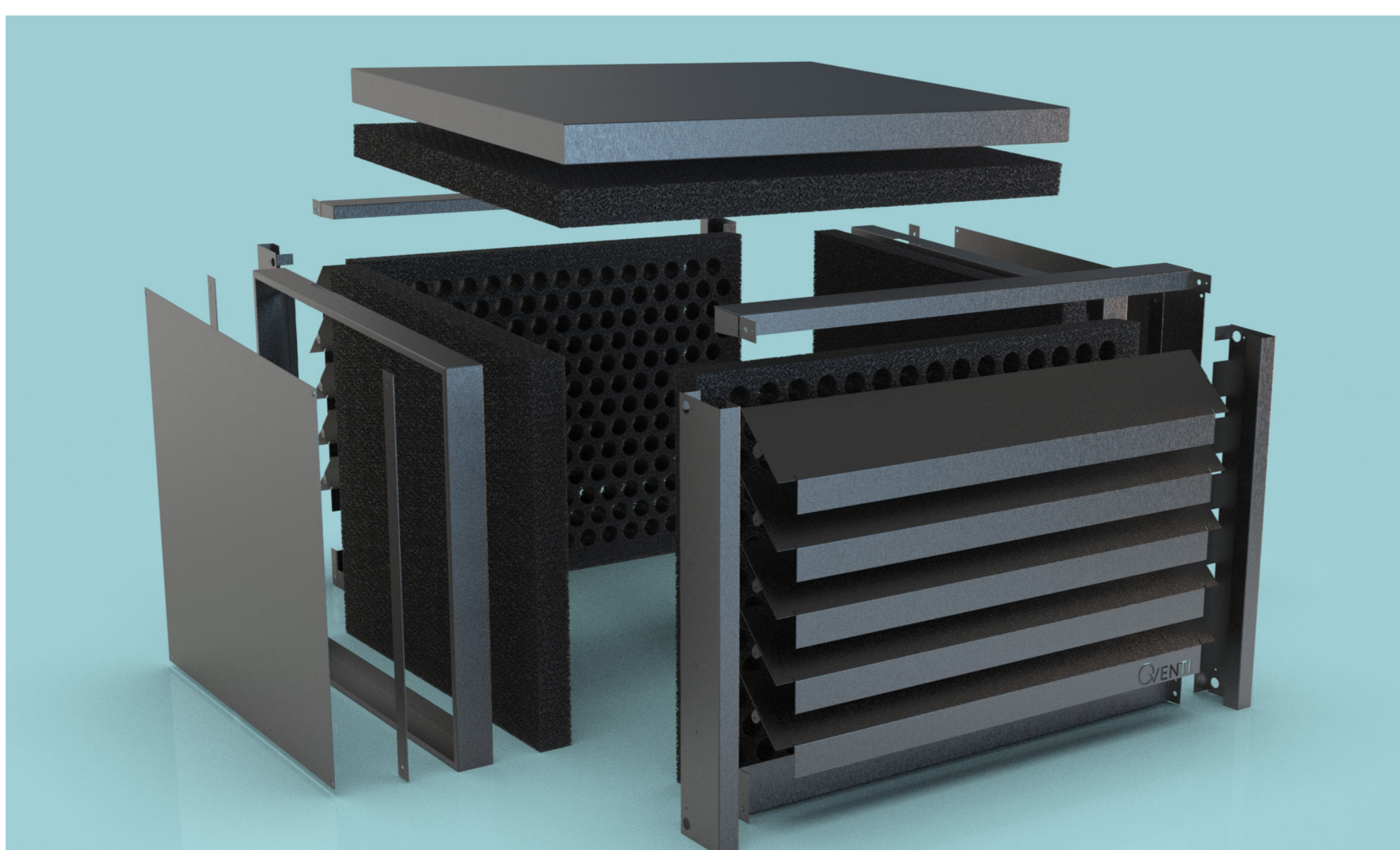
Hush is a sound reducing heat pump cover. It can be installed over the outside units of heat pumps. It utilises a unique perforated foam layer, allowing air to flow through, while keeping the sound in. The heat pump sound is reduced from an annoying noise to a background hum.

The heat pump market is growing rapidly and new noise legislation creates issues for many people living in terraced housing and apartments. Hush can help people stay below the legal noise limit.

The design consists of five sheet metal panels, with clamped-in foam. A recirculation plate splits the inner area into two compartments, preventing the recirculation of air. Below the heat pump, anti-vibration foam is placed to prevent contact sound.

Hush is available in a range of sizes, with the option of custom sizing using a configure to order workflow. This means that 3D-models, technical drawings and quotes can automatically be generated based on the specific case of the user.

The model was optimised for assembly by reducing the part count and pre-assembling the panels. On the sides, doors allow for easy maintenance access. The roof panel slots into place using a hidden locking mechanism, after which it stays in place due to gravity. Hush can be assembled within 45 minutes, requiring only 8 screws.



This heat pump cover is built to last.

The galvanised steel type 'magnelis' has a design life of more than 50 years, a high corrosion resistance and a self healing effect. On top of this, the CO2 footprint is lower than that of comparable materials. The foam 'stratocell whisper' is lightweight, water resistant, fire retardant and has been tested to exceed 50 years of outdoor life.

Light, compact, robust, sleek.

Compared to competitors, hush is lighter, more low cost, more compact and easier to assemble. Users tests have shown that Hush is also more aesthetically pleasing than the competition. Its straight edges and hidden screw holes make for a sleek robust exterior.

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Developing a Sound Reducing Heat Pump Cover
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Integrated Product Design

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