

Passive house (German: **Passivhaus**) is a rigorous, voluntary standard for energy efficiency in a building, which reduces the building's ecological footprint. It results in ultra-low energy buildings that require little energy for space heating or cooling

Passive Houses are essentially buildings which use very little energy for heating and cooling, whilst also providing a high level of comfort. ... The **houses** are so energy efficient they can save up to 90% in heating costs. One of the main focal points of **Passive Houses** is minimizing air leakage from the property. **Passive houses** are airtight.

HOW DOES A PASSIVE HOUSE WORK? The strategy of a **Passive House** is to reuse "free" heat to heat the home. ... The stale air leaving the **house** is carrying the "free" heat. It goes through the heat recovery ventilator, and transfers the heat, to the incoming fresh air, before it leaves the building.

A combination of **passive** natural ventilation systems and mechanical heat recovery ventilation systems can be used, dependent on the climate of the building's surrounding environment.