

## About PHI

Component certification provides reliable energy performance data for energy balance calculation of the building with PHPP.



The Passive House Planning Package (PHPP) is an affordable energy balance tool ideal for high performance building standards with extremely accurate results.

### Further benefits of certification

- Quality assurance for planners of high-performance and Passive House buildings
- Presentation in Passive House Institute component data base
- Entrance into a growing market
- Increased market visibility and product recognition
- Independently tested and certified
- Use of Certified Passive House Component seal
- Announcement to Passive House stakeholders in monthly newsletters

More than 200 devices already certified!

The Passive House Institute is an independent research institute that has played an especially crucial role in the development of the Passive House Standard – the only internationally recognized, performance-based energy standard in construction.

Get in touch!

The Passive House Institute offers:

- Certification of Passive House Components
- Consultation for thermal optimization of products and planning details right from the start



The certification criteria and testing requirements are available on our website or via email:

[components@passiv.de](mailto:components@passiv.de)  
[www.passivehouse.com](http://www.passivehouse.com)

Passive House  
Institute  
Certification of  
building service  
components



Apply for the world's most ambitious  
energy efficiency seal!



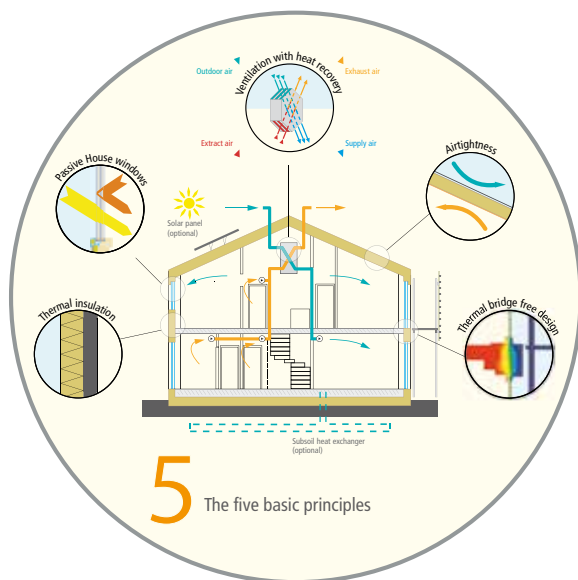
**CERTIFIED  
COMPONENT**

Passive House Institute

## Efficiency first - why the need for certification?

Worldwide, the market for highly energy efficient buildings is growing rapidly, and with it the need for reliable, performing components. But often, the requirements as well as the options to reach them are unclear and some producers might claim energy performance data that cannot be achieved in operation. The Passive House Institute certifies highly energy efficient components according to international criteria for respective thermal performance, comfort and indoor air quality. PHI provides component certification for the following categories:

- Building services
- Transparent building envelope
- Opaque building envelope



[www.passivedia.org/basics](http://www.passivedia.org/basics)

### PHI building service certification

Provides reliable energy performance data based on independent laboratory measurements for:

- ventilation devices with heat recovery
- heat pumps, compact heat pump- and mini split units
- drain water heat recovery

## Ventilation devices with heat recovery

**Large - airflow rate > 600 m<sup>3</sup>/h (350 cfm)**

**Small - airflow rate < 600 m<sup>3</sup>/h (350 cfm)**

**Single - room devices**



The assessment based on laboratory measurements includes:

- Heat recovery rate
- Electric power consumption
- Comfort criterion
- Internal and external leakage
- Acoustic performance
- Room air hygiene (filter)
- Frost protection

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## Drain water heat recovery

The assessment based on laboratory measurements includes:

- steady-state efficiency
- effective dead time

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## Compact heat pump units, heat pumps and mini split units for heating and cooling

The assessment based on laboratory measurements includes:

- Comfort criterion (no draught risk)
- Seasonal efficiency for heating and cooling
- Acoustic performance
- Control
- Room air hygiene (filter)
- Defrosting of evaporator during heating season
- Dehumidification ability
- Determination of efficiency for heating of domestic hot water (COP values for heating-up and re-heating of the DHW in the storage tank)
- Stand-by consumption

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