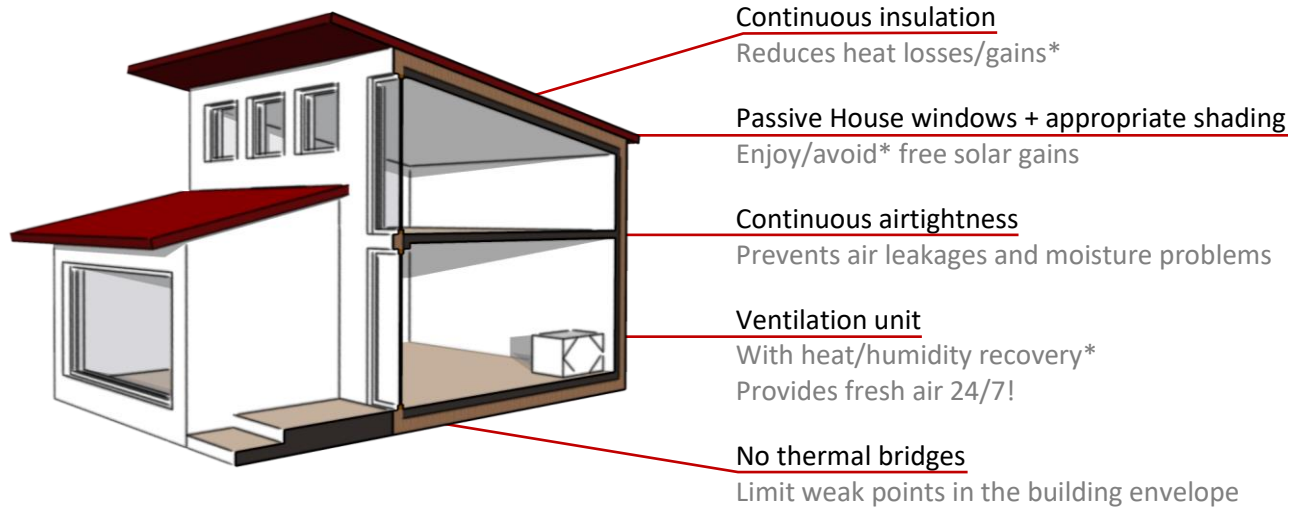


Tips and Tricks for Passive House residents

Passive House buildings are energy-efficient buildings that provide users with great comfort levels and excellent air quality around the clock. They rely on the following main principles:



* Climate dependent

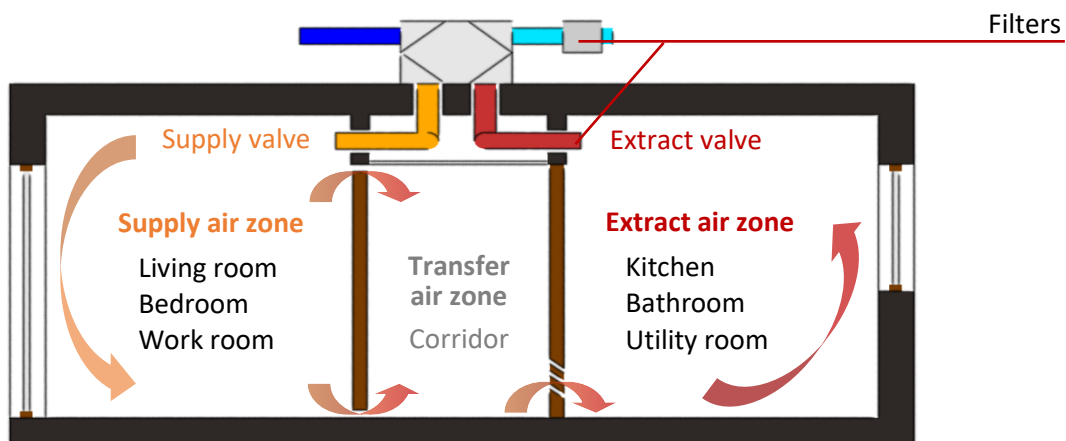
Make the most of your Passive House building by following these recommendations

> **Airtightness**

The airtight layer usually lies on the interior surface of exterior walls (membrane, plaster). It is best to **puncture it as few as possible** and carefully close remaining holes once fasteners have been removed.

> **Ventilation system**

Just like with a vacuum cleaner, you should **replace the G4, M5 and F8 filters** of the filter box and the **G3 filters** at the extract air valves **once a year (best in autumn)**. Help fresh air circulate through all the building by keeping overflow air openings in doors and extract/supply valves clear.



- **Extract air volume \approx supply air volume.** Let an expert check the balance for you!
- Further **reduce your energy consumption** by using window ventilation when outside temperatures and humidity levels are close to the desired indoor climate - Don't forget to turn the ventilation unit on again as outdoor conditions change.
- If you find the **air too dry** in cold spells during the winter, reduce air flow. You may supplement this by hanging the laundry inside and plants.
- To make your life easier, keep all initial valve settings and positions or ask a qualified expert before making any changes.

> **Highly efficient glazing and shading**

Enable sunshine heat your space for free by ensuring exterior shading is open during cold periods. Reading a computer screen becomes more comfortable with an interior glare screen in place. When interior temperatures increase beyond your fancy just use the shading.

> **Heating**

In Passive House buildings, night-time setback is hardly effective as a rule and thus unnecessary complication. You just need a small heating power, which can be supplied without interruption nor radiators below your windows!

> **Cooling**

There is no peak loads problems in Passive House buildings: Thanks to their high inertia, the cooling demand is small and almost constant. Use the exterior shading diligently though!

And just like you would do in a conventional building,

Let the sun shine in!



In the **heating period**

- Use window ventilation only when necessary (party time)
- Enjoy free solar heat gains by keeping windows mostly unshaded
- Set comfortable temperatures without overheating the building

In the **cooling period**, avoid overheating by

- Taking advantage of night ventilation (if possible)
- Using shading devices
- Choosing energy-efficient appliances and lighting

