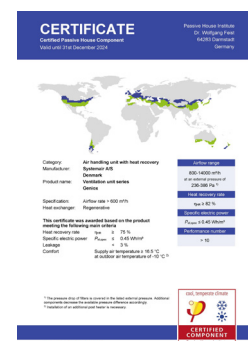


Geniox Air Handling Units

Certified to Passive House Standards for Unmatched Energy Efficiency



Our Geniox air handling units have achieved Passivhaus certification, making them the ideal choice for projects prioritizing superior energy efficiency, comfort, and sustainability. This certification guarantees that our units meet the stringent energy standards of the Passivhaus Institute, ensuring optimized performance in even the most demanding conditions. But what exactly is Passive House, and why does it matter?



What is a Passive House?

Passive House is a building standard that stands for exceptional energy efficiency, comfort, and environmental friendliness. Unlike a brand name, Passive House is an inclusive building concept that has demonstrated its value and practicality across various projects. More than just an energy-saving approach, the Passive House standard sets a benchmark for reducing energy consumption and enhancing living comfort.

Remarkable Energy Savings: A Passive House design uses up to 90% less heating energy than conventional buildings. Compared to the average new building, it achieves more than 75% energy savings.

High-Performance Insulation: Passive House designs are equipped with specialized windows and highly effective thermal insulation in the external walls, roof, and floor slab. This construction keeps the heat inside, utilizing internal energy sources such as body heat and solar gain to maintain a comfortable indoor temperature with minimal heating effort.

Enhanced Living Comfort: Passive House designs significantly improve indoor comfort through advanced ventilation systems that ensure a continuous supply of fresh air without drafts. These systems use highly efficient heat recovery technology to recycle heat from exhaust air, maintaining a warm indoor environment even during cold winter months. High surface temperatures and minimal temperature differences between the walls and room air further enhance thermal comfort.

The Benefits of Component Certification

The Passive House Standard is synonymous with high energy savings and sustainability. Achieving this standard requires careful planning, the use of highly efficient building systems, and the integration of components that are two to three times more efficient than conventional products. This high level of efficiency is crucial for meeting the stringent requirements of the Passive House Standard.

For designers and engineers, assessing the energy efficiency and durability of components can be challenging due to the lack of realistic standard parameters.

The Passive House Institute addresses this issue by independently testing and certifying products based on uniform criteria. The Certified Passive House Component seal ensures that products meet the highest standards of energy efficiency, making them reliable choices for Passive House projects.

Geniox Air Handling Units: Setting a New Standard

Our Geniox air handling units have been rigorously tested and certified by the Passive House Institute, ensuring they meet the highest standards of energy efficiency, reliability, and performance. With continuous air exchange and advanced heat recovery, Geniox units provide consistent fresh air and maintain optimal indoor temperatures year-round. Even on cold winter days, the incoming air is tempered to a comfortable 61°F (16°C) or more, while on hot summer days, the supply air is cooled to nearly room temperature.

Geniox Model	Airflow Range		External Pressure	Actual Available External Pressure	Specific Electric Power	nhf	Performance number
	Min m³/h	Max m³/h	Pa	Pa	Wh/m³	%	
Geniox 10	800	2200	236	183	0.34	83	13.4
Geniox 11	1200	2800	286	241	0.41	83	10.4
Geniox 12	1600	3600	302	252	0.38	82	11.5
Geniox 14	2300	4700	320	286	0.44	85	10.7
Geniox 16	3000	6400	338	283	0.43	85	11.4
Geniox 18	3700	8800	358	308	0.40	85	11.0
Geniox 20	4680	10000	365	318	0.45	86	10.6
Geniox 22	6500	12000	376	329	0.45	86	10.3
Geniox 24	7500	14000	386	342	0.45	86	10.2
Geniox 27	8300	17000	398	358	0.45	86	10.3

By choosing Geniox, you are investing in a solution that delivers unmatched energy efficiency, enhances indoor comfort, and supports sustainable building practices. Trust Geniox to provide the reliability and performance you need for your next project, and join us in leading the way toward a more energy-efficient future.

Lead the way to energy efficiency with Geniox

Explore the the smartest, easiest way to superior indoor air quality & energy efficiency.

[Click this link to learn more about the Geniox unit.](#)

