Turning your Dreams into Reality with Efficient Air Conditioning.
Genius – the intelligent central building services unit for heating, cooling, ventilation and water heating
A breath of fresh air: Genius by Systemair
The comfortable and efficient air heating system
Soon it will be a reality:

Your dream home.
Everything should be precisely as you imagine.
Including the indoor climate.

We are here to help.

With intelligent technology that has been perfectly designed in line with the requirements of modern construction. Economical to purchase. Energy-efficient in operation. And versatile in application.

Like Genius – our HVAC unit, which controls the heating, cooling, ventilation and hot water from the one device. And that uses air and air alone.

Discover these fresh ideas of Systemair.
One for all. All with air.
Genius – the modern central building services unit

Do you want to realise your dream and build your own home? Or renovate your old property with style? Whatever you are planning, the energy saving regulation is the measure of all things. In order to protect our resources, it demands well-insulated and, above all, airtight building envelopes. However, this brings with it the risk of mould formation. As such, regular room ventilation is more important than ever before. If windows are used for ventilation, valuable heat energy is lost. The only way to guarantee a healthy room climate with the least possible loss of energy is to incorporate a ventilation system.

This also reduces the loss of heat thanks to the increased insulation. Classic heating systems for energy-efficient houses are, however, often oversized. That is why we have developed Genius. It is a HVAC unit that controls the efficient ventilation of your living spaces, whilst also utilising the air to heat or cool the rooms. But this is not all. With Genius, even the water heating is included. In other words, you only need one system. And it is so compact that you also gain space – for play, for crafts, for your fitness...

On top of that, one system requires less planning, and you can enjoy considerably lower investment and maintenance costs. As Genius works with great efficiency, the operating costs are comparable or even less than with other systems.

And, if you combine Genius with a photovoltaic plant, you can achieve an almost self-sustaining and carbon-neutral system. Clever, right?

Good for the environment and budget
The Genius multi-functional device is the heart of the system. It provides living spaces and bedrooms with fresh, pure air on a constant basis, and transports the extracted air outside via the kitchen, bathroom and toilet. First the heat (up to 85%) is extracted from the extracted air and used to adjust the temperature of the supply air. At the same time, Genius acquires sufficient moisture to ensure your ambient air is not too dry. In the summer, the principle reverses, so that the extracted air cools the supply air, and excess moisture in the air is removed.

Comfortable temperatures throughout the year

In winter, a ventilator removes air from your living spaces using a special ductwork (secondary air). This is warmed as required and then directed into your living spaces and bedrooms. Additional electric heating is only required in exceptional circumstances, as Genius is fitted with modern, powerful heat-pump technology. It can achieve pleasant room temperatures even on very cold days. You can, of course, also install a wood-burning stove, should you desire. The heat from the stove will then be distributed throughout the house via the secondary air.

In the summer, Genius works in reverse to cool your ambient air. Thus, you can enjoy the perfect room climate and the utmost in comfort throughout the year with just one device.

Hot water around the clock

All of the features that Genius offers can be used individually or in parallel – including the hot water provision. This means that the required energy can be utilised perfectly and resources can be saved.

A 150-litre tank is integrated to store drinking water, so that there is always sufficient hot water, even when consumption is high. A built-in heating element ensures that it functions seamlessly, even in the case of extremely low outdoor temperatures.
Poor Indoor Environment is History with the Genius unit

The idea of using air as a heat transfer medium and transporting it from room to room through ducts has been around a long time. However, until now it was common for unpleasant smells and impurities to be transported too. Thanks to Systemair's secondary air system, your customers will only experience pure air quality, because the extract air system remains completely untouched. This ensures that the transmission of odours or substances is excluded. Furthermore, high-quality pollen and dust filters clean the air. The result: the very best air quality and a pleasant indoor climate for your customers.
At Systemair, we have been setting standards in the field of ventilation technology for over 40 years, and, in doing so, have become one of the global market leaders. With the Genius HVAC unit, we have made a further decisive step forwards by combining ventilation and heating technology.

Perfect service
When it comes to developing our products, we place a great deal of value on quality, functionality, efficiency and on saving energy. And, as high-quality technology demands a corresponding level of service, we support you and your tradesmen from the very beginning:

- Calculation of air quantities using your building plans
- Adaptation of the system in line with your requirements
- Provision of a quote and installation plans
- Delivery of the entire system to site, including all ductwork, outlets and controls
- Assistance in the installation, commissioning and maintenance

Convenient operation
Needless to say, modern technology requires contemporary operation. As such, we have designed Genius so that you and your fitter can control the system both via a central display or control unit on the device, and using a PC with internet access. Thus, you can enjoy access to a clear overview of all the functions at all times, wherever you are. Incidentally: We have installed the individual ventilation, heat pump and hot water components into compact modules within the Genius. This reduces installation time and makes the unit easier to service.

Gut zu wissen
Quality
Systemair is certified according to ISO 9001, ISO 14001 and ATEX. Our testing and development laboratories are among the most modern facilities in Europe; measurements are taken according to international standards such as AMCA and ISO.

Save energy, reduce operating costs!
Our “Green Ventilation” label identifies all products which are particularly energy efficient. All products which are marked with “Green Ventilation” unite economy with energy-efficiency.

Prize-winning
Genius was awarded the Plus X Award in the categories Innovation, High Quality, Functionality and Ecology.

Certified
The Genius air handling unit is passivehouse certified: It is suitable for all lowenergy houses and passiv houses, as well as for other houses and apartments, in which energy should be saved.
Genius –
pure pleasure

- Fresh air around the clock
- Humidity recovery via rotary heat exchanger
- No formation of mould
- Pleasant cosy temperatures all year round
- Integrated 150 litre drinking water storage tank
- State-of-the-art technology
- Contemporary, dimensioned for the requirements of energy-efficient houses

- Only a system
- More space for the important things in our lives
- Control system optimises consumption
- Easy to operate: via display, app, Internet, cloud
- PLUS X AWARD innovation prize

- Can be used with independent fireplace.
- Possible to combine with photovoltaics
Often asked. Happily answered.

FAQs

**For what buildings is Genius appropriate?**

The application limits are:
- Passiv house/KfW 40: max. 230 m² living area
- KfW 55: max. 190 m² living area
- Heating load calculation necessary.

Additional electric convectors or underfloor heating is recommended in bathrooms.

**Is the Domestic Hot water tank sufficient to supply a one-family household without additional electrical energy?**

With Genius, the hot water is produced on demand and is possible during all operating states, i.e. also during heating and cooling. The domestic hot water tank holds 150 litres. Thanks to the parallel operation and the performance of the heat pump, this is sufficient for a one-family household, even with a high level of consumption. The additional electrical heating element only has the following functions: Legionella control program, fast charge, emergency operation and assistance when the outside temperatures are extremely low.

**Can Genius be operated in combination with a fireplace?**

Yes, as long as the fireplace is installed independently of the ambient air. The heat from an ambient air-independent stove operated in parallel can be simply and evenly distributed throughout the whole house via the Genius secondary air duct system.
Have we piqued your interest?

Do you want to make your daydream a reality?
Then ask your architect or tradesman about Genius by Systemair.

Your dream home will soon be a reality.