

All Adexsi Group companies have come together under the **Genatis** brand to pool their expertise and specific product ranges. This comprehensive offering will enable you to **optimise the energy performance** of your buildings and **maximise occupant comfort**.

Genatis brings together the key players in fire safety and building energy optimisation: **Bluetek**, **Souchier-Boullet** and **Tellier Brise-Soleil**.



**1 NATURAL LIGHT**

Productivity, concentration, well-being, respect for the circadian cycle, energy savings... the benefits of natural light are numerous and no longer need to be proven. It's vital that we make the most of this free, inexhaustible resource in our buildings.

300 lux - 50% of the time - on 95% of the surface

This is the minimum threshold recommended by European standard EN 17037 on natural lighting in buildings.



**2 FIX & MOBILE SUN-SHADING**

Genatis offers a wide choice of shading solutions for your buildings, which are essential for **controlling natural light** and **free heat gain** and preventing **overheating** in summer. Installing shading solutions on roofs or facades **reduces the need for air conditioning/cooling** solutions. Find the right balance between natural light and shade and add up the benefits.



**3 NATURAL VENTILATION**

Did you know that indoor air can be **8 times more polluted** than outdoor air? High-quality natural ventilation is essential to the well-being of building occupants.

As well as preventing or limiting the spread of viruses/allergens, natural ventilation also helps to **limit the use of energy-guzzling appliances**, through the use of free cooling and night cooling. It provides additional **comfort** in summer by controlling the speed of air movement.



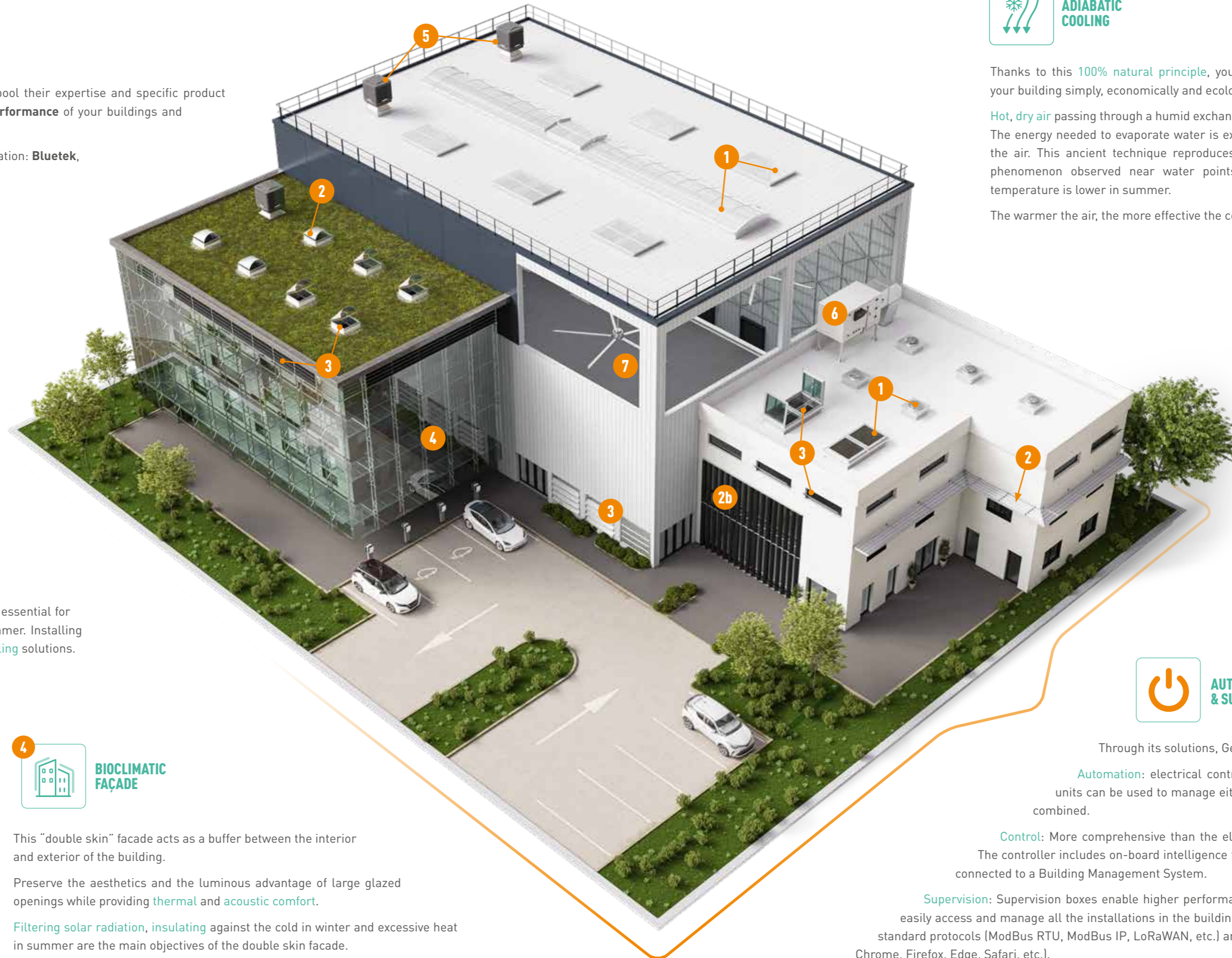
**4 BIOCLIMATIC FAÇADE**

This "double skin" facade acts as a buffer between the interior and exterior of the building.

Preserve the aesthetics and the luminous advantage of large glazed openings while providing **thermal** and **acoustic comfort**.

**Filtering solar radiation**, **insulating** against the cold in winter and excessive heat in summer are the main objectives of the double skin facade.

The automation of this system allows for a simple and reliable management.



**5 ADIABATIC COOLING**

Thanks to this **100% natural principle**, you can refresh your building simply, economically and ecologically.

**Hot, dry air** passing through a humid exchanger is cooled. The energy needed to evaporate water is extracted from the air. This ancient technique reproduces the natural phenomenon observed near water points where the temperature is lower in summer.

The warmer the air, the more effective the cooling.



**6 AIR TREATMENT SYSTEM**

From a renewable heat source (thermal solar panels, biomass, heating network, etc.) The innovative air handling system provides an environmentally-friendly solution for **ventilation, heating and air conditioning** in buildings.

An air handling unit manages indoor air quality by **continuously monitoring** temperature, humidity and air purity.

**Intelligent control** of one to three rotary heat exchangers (recovery/enthalpy/dessication) ensures **indoor comfort** in all seasons.



**7 AIR DESTRATIFICATION**

The principle of **destratification of the air** consists of stirring the air in order to homogenise the temperature in a room, a building, etc. This solution responds to the natural problem of stratification of the air.

Warm air is lighter than cold air, so there are layers of different temperatures. With destratification, the air is gently stirred, the temperature is **homogenised** and naturally warms the occupied areas of the building.

Conversely, in summer, the reversed direction of rotation of the blades creates a gentle movement of air, providing a **feeling of comfort** for the building's occupants.



**8 AUTOMATION & SUPERVISION**

Through its solutions, Genatis offers complete, **fully adaptive solutions** for intelligent building management.

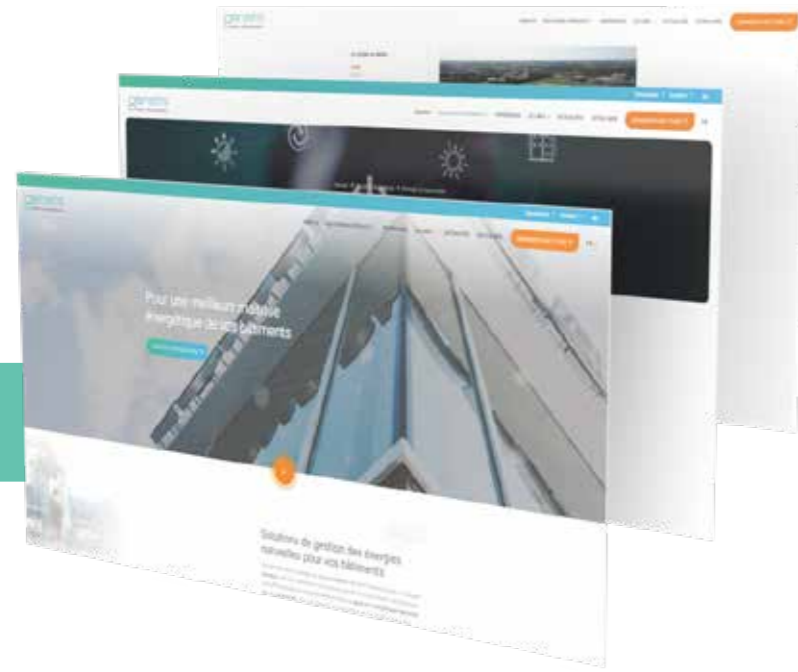
**Automation:** electrical control units for opening and closing openings on the facade or roof of buildings. These units can be used to manage either natural smoke extraction functions, natural ventilation functions, or both functions combined.

**Control:** More comprehensive than the electrical automation boxes, the control units enable Genatis solutions to be managed. The controller includes on-board intelligence for autonomous management of all Free Cooling and Night Cooling scenarios. It can be connected to a Building Management System.

**Supervision:** Supervision boxes enable higher performance levels to be achieved. By centralising information in a single interface, users can easily access and manage all the installations in the building. Designed for simple Plug & Play installation, the supervisors are compatible with all standard protocols (ModBus RTU, ModBus IP, LoRaWAN, etc.) and are totally flexible. Monitoring is simple and intuitive, using any web browser (Google Chrome, Firefox, Edge, Safari, etc.).

## WEBSITE *Genatis*

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## Studies

Each building has its own constraints and requirements.

In order to respond to them as effectively as possible, each case is studied, analysed and broken down to propose a suitable and optimised solution: natural light, fixed or mobile shading, adiabatic cooling or natural ventilation, etc. Our teams are on hand to help you with your projects and provide you with the best possible recommendations.

Our experts use high-performance simulation tools to provide you with a reliable study.

➔ Ask your Genatis contact for advice.



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Gestion des Energies Naturelles //

Manufacturer of solutions for  
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