## SIEGENIA and ArgillaTherm: rethinking heating, cooling and ventilation

# A powerful partnership for the air-conditioning revolution

Removal of moisture, CO2 and pollutants – modern air conditioning in buildings must also fulfil increased requirements that go beyond heating, cooling and ventilation. In particular, reliable humidity management is usually associated with high installation and maintenance costs. In a highly effective collaboration, ArgillaTherm and SIEGENIA are now pooling their expertise to provide a completely new type of all-in-one solution for commercial buildings. The innovative end-to-end system from the two manufacturers is energy-efficient, regulates humidity, is virtually carbon-neutral and boasts tangibly lower procurement costs and substantial savings on running costs compared to conventional solutions.

#### A combination of natural air-handling ceilings and decentralised ventilation

Humidity management is achieved using natural air-handling ceilings made up of HUMID modules from ArgillaTherm, a specialist in environmentally friendly air-conditioning systems and products. Thanks to the hygroscopic material used, these virtually carbon-neutral modules are capable of absorbing a high level of moisture in a short space of time, which they then release as soon as there is no longer a need for cooling. The system is sustainable, ensures healthy heating and cooling of indoor spaces that is also suitable for allergy sufferers and asthmatics, and protects the fabric of the building. Decentralised ventilation units from SIEGENIA – such as the AEROMAT VT WRG facade ventilator or the AEROPLUS WRG wall-mounted ventilator – ensure that CO2 is removed and ventilation is tailored to requirements. In addition to ventilation, they offer a number of additional functions such as heat recovery and sound absorption as well as filter functions and sensors for healthy living.

#### A good 60 percent lower operating costs – easy planning

The combination of ArgillaTherm natural air-handling ceilings with decentralised ventilation units from SIEGENIA reduces investment costs by up to 30 percent and operating and maintenance costs by more than 60 percent when compared to conventional solutions. It also has the added benefit of significantly reduced planning costs, installation of the ventilation technology without the need for specialist companies and exemption from mandatory inspections for fire dampers, for example. Funding opportunities can also be maximised in this way.

The collaboration is something that Axel Lange, Managing Director at ArgillaTherm, sees as an asset: "Combining our modules with decentralised ventilation systems is an innovative approach that sets new standards for air conditioning in buildings thanks to its cost effectiveness and sustainability. We are delighted to be working alongside SIEGENIA as an exclusive partner." Stephan Stoll, Sales Manager for AERO/E-Commerce at SIEGENIA, also welcomes the collaboration: "Our initial experiences of providing joint consulting services for commercial properties have been positive. The advantages of combining the humidity-regulating modules with our ventilators provide discernible benefits for decision-makers in commercial construction."

#### "The air-conditioning revolution" symposium

More detailed information on eco-friendly air conditioning in buildings using natural building materials, demand-based ventilation for energy-efficient buildings and current funding opportunities (DGNB/QNG) will be provided at the "Air-conditioning revolution – rethinking heating, cooling and ventilation" symposium. The one-day event, for which architects will receive four CPD credits, will take place on 16th May at the Zeche Zollverein in Essen and will host a number of prestigious speakers.

For more information and to register, visit <https://argillatherm.de/2024/03/20/symposium-klimatisierungswende/>

#### Captions

*Image I: SIE\_AERO\_Kooperation ArgillaTherm.jpg*

Image database: SIEGENIA

Heating, ventilation and cooling: in a highly effective collaboration, ArgillaTherm and SIEGENIA are now pooling their expertise to provide a completely new type of all-in-one solution for commercial buildings.

*Image II: 01\_ArgillaTherm\_Natur-Klimadecke.jpg*

Image database. ArgillaTherm

More than just heating, cooling and ventilation: Thanks to their hygroscopic properties, ArgillaTherm natural air-handling ceilings using HUMID modules also ensure efficient moisture management.

*Image III: 02\_ArgillaTherm\_Natur-Klimadecke.jpg*

Image database. ArgillaTherm

With the natural air-handling ceilings, almost the entire surface can be covered. Decentralised ventilation units from SIEGENIA remove CO2 and tailor ventilation to requirements.

*Image IV: SIE\_AERO\_AEROMAT\_VT\_WRG\_Detail.jpg*

Image database: SIEGENIA

The combination of ArgillaTherm air-handling ceilings with decentralised ventilation units from SIEGENIA – such as the AEROMAT VT WRG facade ventilator – considerably reduces costs and offers a number of additional benefits.

*Image V: SIE\_AERO\_AEROMAT\_VT\_WRG.jpg*

Image database: SIEGENIA

A powerful partnership between ArgillaTherm and SIEGENIA: decentralised ventilation units from SIEGENIA ensure that CO2 is removed and ventilation is tailored to requirements, whilst also offering additional benefits such as heat recovery and sound absorption.

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