LUBI Wall
SOLAR AIR SYSTEM

Regenerative energy for fresh air and comfortable warmth
FRESH AIR FOR FRESH IDEAS

LUBI Wall is a highly efficient Solar Air System. It supports the heating, ventilation and cooling of facilities.

The principle behind it is easy: Solar energy converts through the medium of air into warmth – without temporarily storing it. In this manner the warm fresh air is available directly for heating or processes like drying technology.

The solar radiation penetrates the highly permeable polycarbonate of the panels and reaches the back wall – either the facilities facade or a special installed casing, which functions as a „solar absorber“. At this point exactly the sun rays convert into warmth and create an air layer behind the panels, which lies up to 45 Kelvin above the surrounding temperature. The Clou: Through 902 small perforations in every panel highly efficient fans suck evenly fresh air into system.

This air blends with the warm air layer and reheat itself again and again at the absorber and creates an evenly high degree of efficiency.

The warm air is used flexible: Directly for heating and ventilation, as process heat or combined with drying technology.

Upgrading the facade

The patented Solar Air System is either planned before construction or installed afterwards on the facade. Next to aesthetic benefits LUBI Wall creates an optimal weather shield. The UV-, wind- and snow resistant LUBI Wall protects the facade from weather influence.

EnEV and EEWärmeG

The institute for technical facility equipment in collaboration with GoGaS created a tool which creates the evidence.

BAFA–Innovationsförderung

BAFA support is provide at a gross collector surface of 20–100 m² and non living facilities of at least 500 m² surface. Further support options via the KfW or regional programs are possible.
THE APPLICATIONS ARE NUMEROUS

Efficient heating support for e.g. office and industrial facilities, workshops, warehouses, schools, exhibition halls or gyms.

Contrary to the heating systems that rely on an intermediate water storage, the air based system has many advantages: In winter the use of antifreeze is not required – LUBI Wall cannot freeze. In summer there is no danger of overheating or stagnation, which often occurs in water based systems.

Fresh air for a good climate
A healthy, comfortable room climate is essential. Especially with insulated and sealed halls the necessary airing becomes an important factor. LUBI Wall creates sufficient fresh air flow – from this the people, machines and stored products profit.

Against the signs of time
LUBI Wall is extremely robust with a minimum live expectancy of 25 Years and 5 Years guarantee. Neither wind nor weather influence the output.
The light but solid made panels are wind and snow resistant.

Also to avoid humidity insides a certain amount of fresh air is necessary – with LUBI Wall it is guaranteed.

Night cooling in summer
In summer as well LUBI Wall is useful. The cooler air of the night is sucked in by fans to cool the heated halls.

LUBI Wall is...
- patented technology for maximum efficiency
- Solar Keymark-certified and licensed for federal funding
- your profitable investment in the future
- best for heating support and airing of commercial, industrial, agricultural and communal buildings
- the efficiency solution for new buildings and building stock
- usable for heating halls, process heating and drying technology
- long living, maintenance free and resistant against wind and weather
- air-guided and not restricted by frost, vapour or stagnation
- The innovation for decreasing energy use, CO2 output and operating costs

Individualised projects
We contemplate any customer and every new project individually. Location or building specific regulations will be taken into account as well as the aesthetic integration into the architecture. In combination with our further system modules the best climate for your buildings will be provided. Next to airing we can also provide mounting, maintenance and initial commissioning. We furthermore support applications for fundings.

With rising fossil energy costs LUBI Wall provides increasingly good saving effects.
LUBI Wall Solar Air System

The collectors load to the wall is 8.8 to 13.7 kg/m².

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<tr>
<th>SYSTEM SPECIFICATIONS</th>
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<tbody>
<tr>
<td>max. effectiveness</td>
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<tr>
<td>max. power</td>
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<tr>
<td>Air volume flow per m²</td>
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<td>max. temperature rise</td>
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*CSA tested – LUBI Black

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