


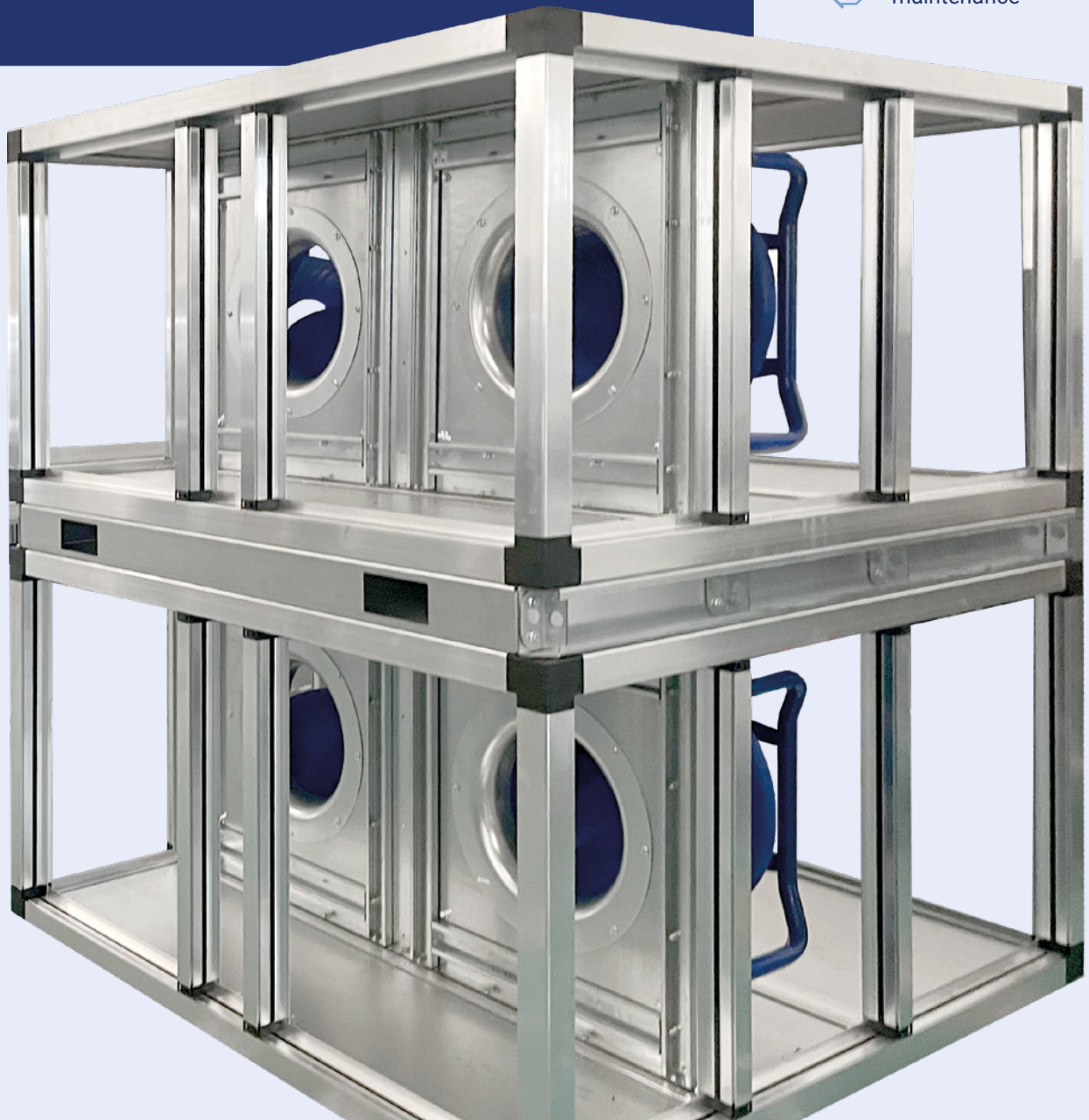


# DECACCLIMA

Innovation in Air Handling Units

## RETROFIT SOLUTIONS FOR AHU

-  Energy savings
-  Adaptable modular solution
-  Low noise level
-  Easy cleaning and maintenance



# DECACLIMA

Reliable and efficient **air-conditioning solutions** for very demanding sectors, such as hospital, pharmaceutical, food and other industrial areas and service sector applications

Request a **quote**  
with no obligation



Our technical team will advise you to find the solution best suited to your needs.

DECACLIMA is specialised in air-conditioning equipment and solutions, offering optimised air handling units with smart controls for projects that need custom solutions with high technical requirements. It stands out for its customer orientation, providing value, innovation and efficiency in every design and unit it develops.

The quality procedures used by DECACLIMA are certified by BUREAU VERITAS according to ISO 9001.

CERTIFIED  
**ISO 9001**



Our commitment to **global sustainability, excellence and innovation** helps us manage our future at the service of our clients

**TB1**



GC Range with Eurovent TB1 certification  
– Thickness 50 –



# Retrofit solutions for the refurbishment of existing low-efficiency units

The term “retrofit” refers to the refurbishment and modernisation of existing equipment by incorporating technological improvements that increase performance, efficiency and reliability, without having to completely replace the original unit. These solutions enable the upgrading of low-efficiency systems to bring them up to current standards, thereby optimising energy consumption, reducing operating costs and extending the service life of the installation.



## Retrofit for existing units



Initial client installation



New installation featuring efficient modular units

DECACLIMA’s retrofit solutions are designed to **transform existing installations into more efficient systems**, sustainable and in line with current market demands.



## Multiple fans, greater service continuity

In traditional systems, the failure of a single fan brings the entire system to a standstill.

In a modular unit, the load is distributed across several fans, thereby ensuring that the system continues to operate even if one unit fails.



## Efficient modular ventilation

In many buildings, existing ventilation systems are energy-intensive, difficult to maintain and pose an increasing risk of breakdown due to the age of the equipment.



# Benefits of retrofit solutions

Designed to improve energy efficiency, operational reliability and ease of installation and maintenance, with a quick and guaranteed return on investment.



## Greater energy efficiency

### Efficiency

The system improves its overall performance by allowing several EC fans to operate at their optimum point, while also reducing energy losses thanks to a more uniform airflow.



## Adaptable modular solution

### Adaptability

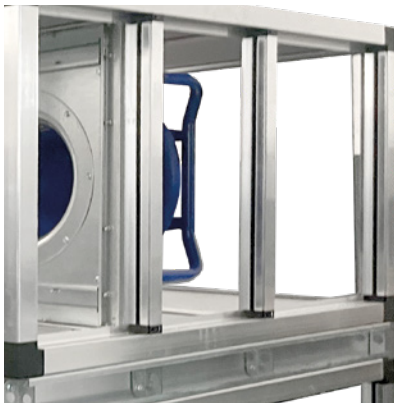
A modular solution that can be adapted to any existing AHU, easily integrating into existing spaces without the need for major building work.



## Reduced system downtime due to breakdowns

### Reliability

Distributing the airflow among several fans ensures that the system continues to operate even if one unit fails. In such a situation, the remaining fans automatically adjust their operation to maintain the required airflow and prevent service interruptions.



## Low noise level

### Low noise level

Lower noise levels thanks to the even distribution of air and reduced fan speeds.



## Easy cleaning and maintenance

### Maintenance

Modules can be replaced quickly without having to shut down the system, the number of critical components is reduced and hygiene standards are improved.

### Ease of installation

Compact components that can be moved through standard doorways, thereby reducing the need for structural work and enabling faster installation.

EC fans **reduce electricity consumption** and minimise energy losses across the entire ventilation system



## Savings associated with a retrofit



**Energy savings**  
• Up to 50% energy savings.



**Reduced operating costs**  
• Lower electricity consumption through the use of energy-efficient fans.  
• Reduced maintenance costs.  
• Fewer machine stoppages reduce operating costs.



**Environmental savings**  
• Reduced CO<sub>2</sub> emissions.



## Competitive advantages of a retrofit



**Modernisation without replacing the entire system**

Older air-conditioning systems can be updated without having to replace the entire installation.



**Compact and adaptable solution**

Less space is required, thereby freeing up technical areas. Modules that can be adapted and scaled to meet future needs.



**Advanced control**

Precise control of flow rate according to demand.



**Improved air quality**

Hygienic design and easy to clean and maintain.

**Less impact on existing infrastructure**  
**Major structural reforms are avoided**

# Modular unit

The modular unit is a compact and flexible solution composed of a set of Plug Fans with EC motors, arranged in vertical modules and adapted to the structure of each air handling unit.

This configuration allows the airflow to be distributed across several fans, while optimising the operating point of each one and improving the overall efficiency of the ventilation system. The design promotes even airflow, keeps noise levels low and makes cleaning and maintenance easier.

As a result, this solution helps reduce energy consumption and CO<sub>2</sub> emissions, and it is suitable for both new installations and refurbishment and retrofit projects involving existing equipment.

EC

High-efficiency plug fans with EC motors



Adaptable modular solution



Easy cleaning and maintenance



Communication with BMS systems



Distribution of the airflow among multiple fans



Reduced operating and maintenance costs

## DECACLIMA Technical Assistance Service

At DECACLIMA, we offer a Technical Assistance Service (TAS) that is **swift and efficient, designed to ensure the maximum performance**, reliability and durability of every installation.



Proximity



Immediate response



Effective solutions

## DCONTROL Module

The DCONTROL module **lets you monitor, analyse and document** the actual impact of the modernisation and energy efficiency improvements made to your installations.



Centralised management and absolute control



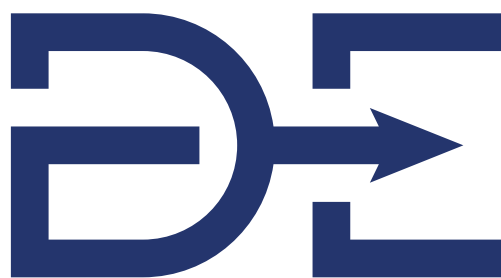
Real-time data and predictive maintenance



Energy efficiency and sustainability



Safety and compatibility



Innovation in Air Handling  
Units

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