



## **EHT**

**Active chilled beams**

Hybrid induction terminals with extremely simple installation, for temperature control, ventilation, cooling, heating and air distribution in large areas.

EHT

# Next generation air conditioning. Comfort, innovation and well-being.



EXCELLENT AIR  
QUALITY



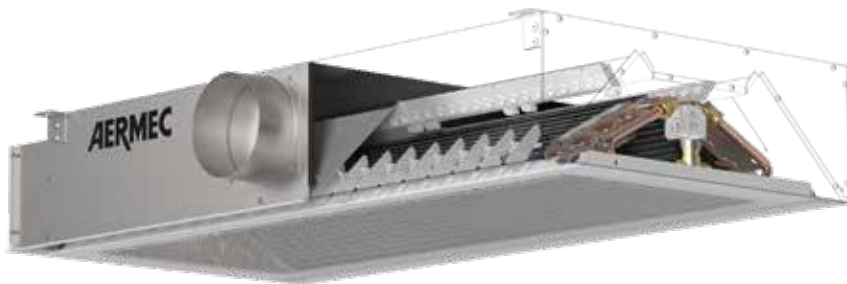
UNPRECEDENTED  
ACOUSTIC COMFORT



MAXIMUM ENERGY  
SAVINGS



IDEAL FOR INTERIOR  
DESIGN SOLUTIONS



Buildings given over to the tertiary sector are very varied in terms of size, construction type and service. That means they need air conditioning solutions able to guarantee superlative performance, optimum comfort and limited energy consumption.

**EHT, the new range of active chilled beams designed by AERMEC and developed in collaboration with the University of Aachen\*, is the solution to all these new plant engineering requests.**



**\* First class  
collaboration for a  
quality product that  
leaves no room for  
compromise**



EHT

# Unbeatable output, thanks to some of the highest induction ratios on the market.

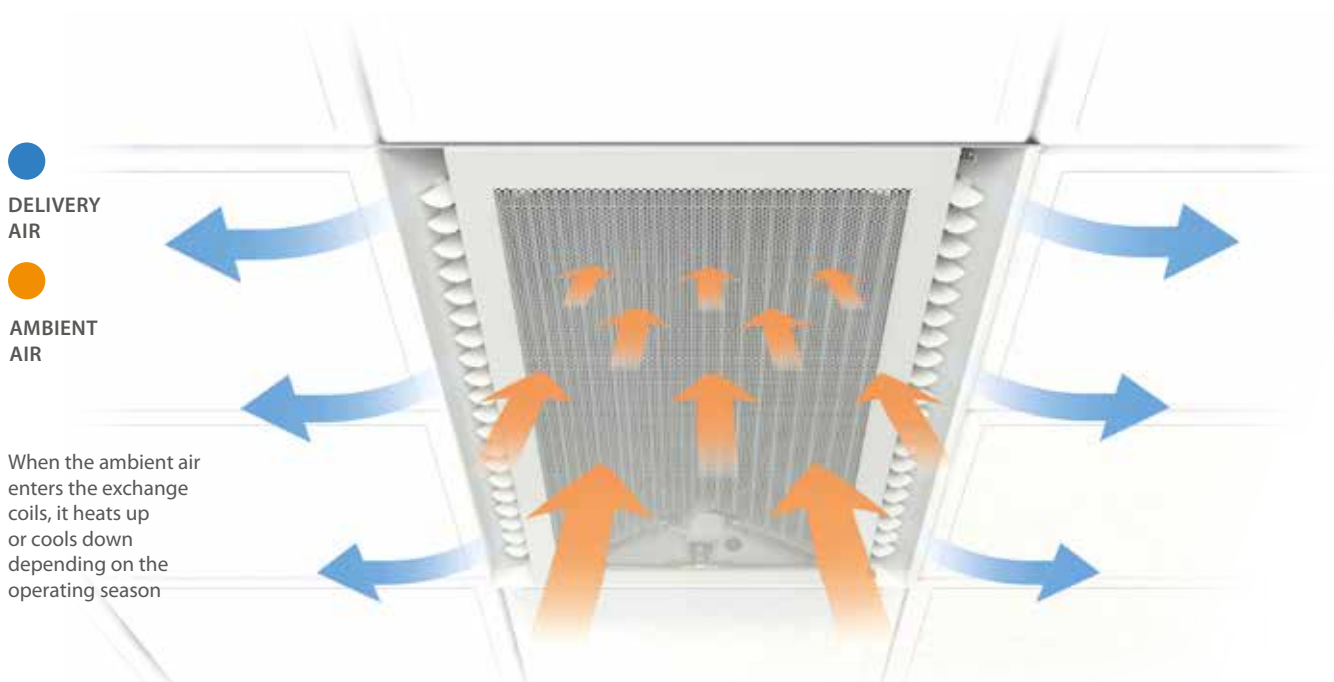
EHT, the active chilled beams designed by Aermec, are hybrid induction terminals that combine **cooling, heating, fresh air, ventilation-only and air distribution in one single device** for rooms with a ceiling height of up to 4m.

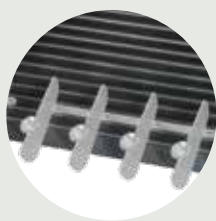
## Aermec innovation: the ideal solution for limiting costs and dimensions

The innovative design of the nozzles - with a form developed and optimised on the basis of CFD analyses - and their moulded production quality - **guarantees induction ratios amongst the highest on the market (up to 6)**, as seen in tests carried out by Aermec in collaboration with the prestigious **University of Aachen**.

All this means higher perceivable output with the same length, with the added advantage of limited costs and dimensions.

UP TO  
**6**  
INDUCTION RATIO





#### HIGH-PERFORMANCE NOZZLES

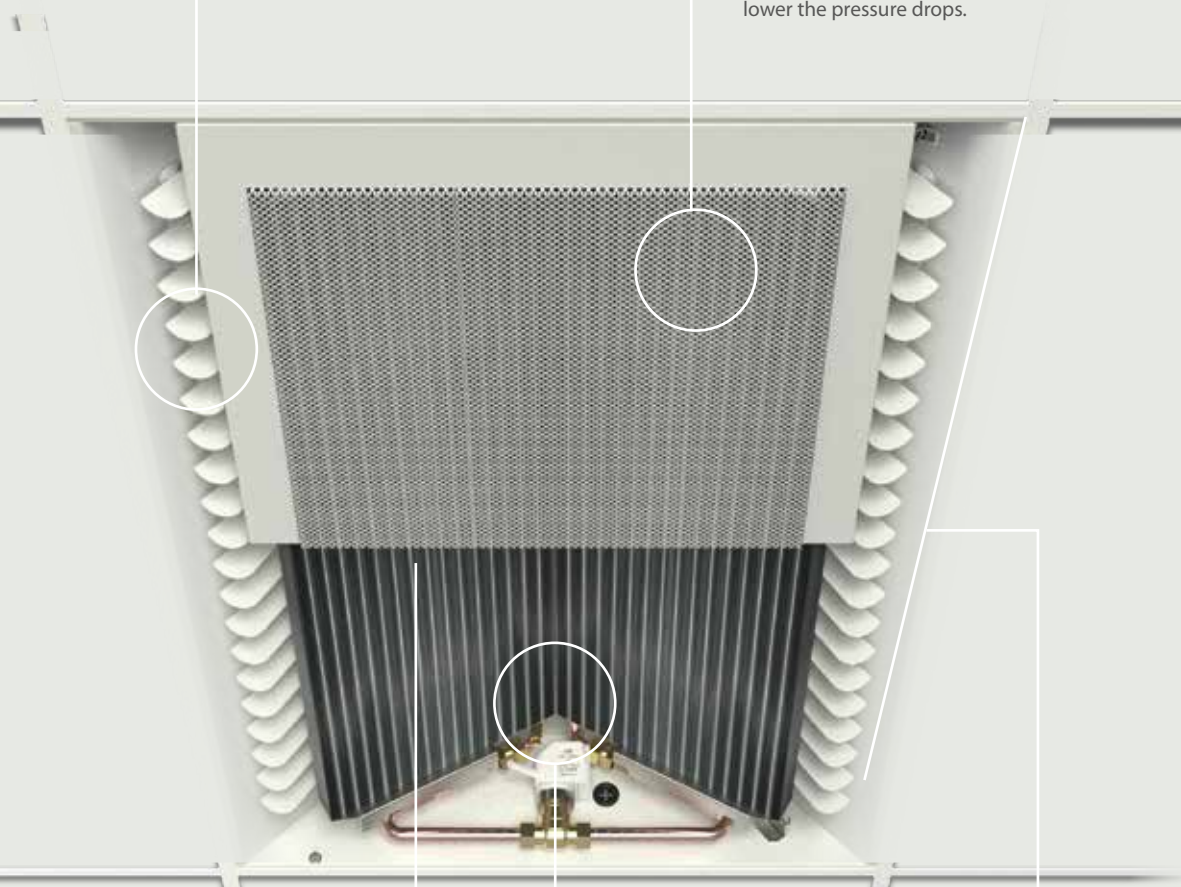
The unique design provides extremely high induction ratios, up to 6.

What's more, the absence of moving parts means unprecedented acoustic comfort.



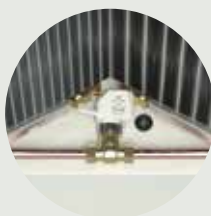
#### TWIN HEAT EXCHANGER

Air-water with symmetrical tilting coils to notably improve heat exchange performance and lower the pressure drops.



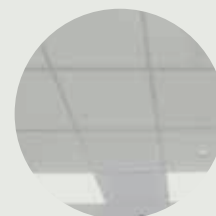
#### INTEGRATED 2-WAY VALVE

Installation is even quicker and more simple.



#### MODULAR DIMENSIONS

Compatible with modular false ceilings 600x600 mm.



#### OPTIMUM ACCESSIBILITY

The components are accessed from below, just by opening the suction grille.

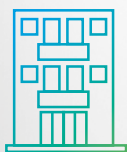


# Designed to ensure comfort in large rooms.

Ideal for offices, open space areas, hotel rooms, airports and railway stations, hospital wards and all large areas in general.

EHT chilled beams always guarantee **correct air renewal** and its **even distribution in the room**, **optimising the temperature** throughout the whole space.

## Applications



Hotels



Large spaces



Hospitals



Stations



Airports

## Advantages

### THE RIGHT TEMPERATURE AT ALL TIMES

EHT exploits the **Coanda effect\*** to ensure the highest comfort level in the room, with even **temperature conditions throughout the whole space**.

### COMPLETE RESPECT FOR THE ENVIRONMENT

Special attention has been paid to the **optimisation of the finned coils**, obtaining the maximum heat exchange coefficient with reduced pressure drops on both the air side and the water side. The result is a boost in overall system efficiency whilst **fully respecting the ecosystems**.

### UNPRECEDENTED ACOUSTIC COMFORT

Thanks to the innovative design of the **nozzles that trigger induction**, the EHT range works **extremely quietly**. What's more, the **absence of moving parts** means unprecedented sound comfort.

### TRULY CLEAN AND HEALTHY AIR

Dehumidification is dealt with by the air handling unit, so there is **no condensate at all inside the EHT chilled beams**. This eliminates the root cause of the risk of proliferation of mould and bacteria and other micro-organisms harmful to the health.

### DESIGN FLEXIBILITY

It injects **air of the highest quality** into the room, thanks to the **air handling unit** which filters, treats and dehumidifies the fresh air before sending it into the chilled beam. In addition, the possibility to choose the right nozzle configuration option means that the right fresh air flow rate can be guaranteed for the specific application.

### MINIMUM MAINTENANCE

EHT needs only **simple, reduced maintenance**. Its components are easily accessed from below, **by opening the suction grille**. Furthermore, the absence of filters and moving parts makes EHT the ideal machine for **minimising scheduled interventions**.

### ADVANTAGES OF THE TWIN HEAT EXCHANGER

The use of parallel heat exchangers with an optimised tilt angle ensures notable cooling and heating capacity values (always with the same length) and low pressure drops on the air and water side, plus considerable savings in terms of the energy absorbed by the pumps and fans of the centralised system.

#### \* COANDA EFFECT:

a situation with high capacity levels but with optimum comfort in the room is obtained by exploiting the **Coanda effect**, which keeps the air flow at ceiling level until residual speeds and temperatures are reached, triggering pockets of localised discomfort such as draughts of cold air.



PRIMARY  
AIR INLET

EHT

# Aesthetics and design flexibility





### MINIMUM OVERALL DIMENSIONS

The EHT active chilled beams ensure easy architectural integration; they can be installed in a wide range of modular ceilings and are designed to suit most false ceilings (600x600mm).

Thanks to their limited dimensions, the EHT units can be used in both new and renovated buildings.

The head-to-head positioning of two adjacent units produces a seamless visual effect.

### DESIGN SOLUTION. ROOMS FREE OF BULKY INSTALLATIONS

Apart from efficiency and unbeatable capacity levels, the EHT active chilled beams also provide the ideal design solution. These units blend discreetly and harmoniously into their installation context, meeting the relative application needs. From the design point of view, the overall dimensions and visual impact are minimal.



## Guide to choosing the right unit

By suitably combining the many options available, each model can be configured so as to meet the most specific system requirements.

For the data and technical specifications, refer to the Magellano selection program.

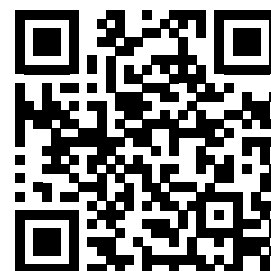
Description			
EHT			
Nominal width			
6	600 mm		
Nominal length			
09	900 mm	21	2100 mm
12	1200 mm	24	2400 mm
15	1500 mm	27	2700 mm
18	1800 mm	30	3,000 mm
Flow rate range			
0	air flow rate XS		
1	air flow rate S		
2	air flow rate M		
3	air flow rate L		
4	air flow rate XL		

## Download Magellano, the integrated Aermec solution for finding, examining and selecting products

Magellano can help you select the right system products. It allows those who work in the heating technology and plant engineering fields to check the operating conditions of a specific model and search for the most suitable units on the basis of personalised parameters.

The selections made can be completed with additional information such as general data, sound performance, electrical and size data, as well as personalised specification descriptions.

The program allows you to consult the technical documentation for each range of products: the product data sheet, technical/installation/user manuals, accessory manuals and conformity declarations.







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Concept  
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