

# ZHK VISION

*Freely configurable Air Handling Units with optimized thermal insulation T2/TB1*



**euroclima®**  
We care for better air



Euroclima participates in the EPC programme for Air Handling Units (AHU) and Fan Coil Units (FCU); Check ongoing validity of certificate: [www.eurovent-certification.com](http://www.eurovent-certification.com)

# OUR CERTIFICATIONS

## QUALITY STANDARDS

Euroclima Air Handling Units will be checked and certified according to well-known guidelines.

Our Air Handling Units are inspected and certified according to **well-known guidelines**. The specified equipment data is guaranteed by various certifications. This applies both to the components used and to the **mechanical properties** of the casing. Our equipment is tested for the **casing properties according to EN 1886 and is Eurovent certified**.

Our Air Handling Units are also tested according to the demanding regulations of **VDI 6022, DIN 1946-4, SWKI 99-3, ÖNORM H 6020 or HTM 03-01 NHS**.

In addition, equipment can be built for potentially explosive areas, which are designed according to the strict specifications and certified according to the **ATEX Directive 2014/34/EU**.

The **Ecodesign Directive 2009/125/EC** serves to define requirements for the environmental friendliness of energy-related products (ErP). Euroclima Air Handling Units are designed according to these standards. In addition to our ISO certification **ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018**, Euroclima pursues a policy of continuous improvement of administration and production processes.





# ZHK VISION **T2/TB1**





# THERMAL PERFORMANCE

## Freely configurable unit systems

The **ZHK VISION** series is characterised by the **unit version in T2/TB1** and its enormous flexibility and was developed to further optimise the thermal properties on the casing of the Air Handling Unit.

Euroclima, as an expert in the field of Air Handling Units, has decades of experience in implementing projects in various sectors. Our strength lies in adapting Air Handling Units **to the specific needs of your processes and buildings.**

- » 50 mm double-walled casing
- » Sheet thicknesses : up to 1.5 mm sheet metal
- » Non-flammable mineral wool with a density up to 150 kg/m<sup>3</sup>
- » Volume flows of up to 250,000 m<sup>3</sup>/h can be realised



OUR  
**COMPLETE SOLUTIONS**



## CONTROL & REFRIGERATING

Heating and cooling from a single source.

Our Air Handling Units are available with **factory-mounted control**, including the corresponding protective functions. The **freely programmable control** and the control of the peripheral units such as the temperature and humidity sensor, pressure switches, damper actuators, valves, etc. are part of our scope of delivery. The unit is tested by **factory pre-commissioning**, which results in high reliability, time savings and trouble-free commissioning for our customers.

Our ETA MATIC software is perfectly matched to the control types to be executed. With the optional "**Climatix IC Cloud**" package, you get cloud access to the unit. With this access, our customers can access the unit from all over the world, at any time and from any smartphone, tablet, PC, etc. with internet access.

The Euroclima **ZHK INOVA series** are available with **built in cooling**.

We offer a **compression refrigeration system** complete with all components and corresponding control. For smaller units that are designed as a monoblock, the refrigeration circuit is completely evacuated, subjected to a pressure test and then supplied filled with refrigerant. For larger units delivered in sections, **we handle the commissioning on-site**.

To ensure seamless support for the customer, we have a **service team with refrigeration technicians** who have all the necessary certificates and training certificates to meet the legal requirements for operation of compression refrigeration systems. Our units are available with **simple or with reversible cooling circuit**, installed in the exhaust and supply air flow of the unit.

## ZHK VISION

Gladly we insert also special components.



# SMART DETAILED SOLUTIONS



### **Fan sections**

- » Radial fan with belt drive
- » Plug fan
- » Plug fan with external runner engine
- » EFC three phase motor, conform to IEC standard, single speed or two speed
- » Measuring unit for air volume (analogue or digital)
- » Repair switch
- » Belt guard protection or grid for inspection door

### **Heater- Cooling section**

- » Heating coil water / glycol
- » Condenser coil
- » Steam coil / Electric heater
- » Cooling coil water / glycol
- » Direct expansion coil

### **Humidifier section**

- » Steam humidifier
- » Electrode steam generator
- » Resistance steam generator
- » Gas fired steam generator
- » Steam distribution systems for available on site steam
- » Adiabatic humidifier systems
- » High pressure atomisation
- » Hybrid air humidifier
- » Air washer
- » Contact pad evaporation humidifiers
- » Ultrasonic humidifiers

### **Energy recovery section**

- » Plate heat exchangers with efficiencies up to 90% (cross flow, counter flow)
- » Heat wheel RT: condensation wheel, enthalpy wheel, sorption wheel
- » Heat pipe
- » Energy recovery for special applications with glass tube or stainless steel tube exchanger
- » SPC-System
- » Accumulator

### **Filter sections**

- » Panel filter G2-G4, F5
- » V-bank filter G2-G4, F5
- » Bag filter G4-F9
- » Compact filter M5-F9
- » Absolute filter H10-H14
- » Activated carbon filter
- » Filter Safe® (Euroclima filter frame for absolute filter)

### **Control unit**

- » Connections for mains supply / external inputs
- » Main switch for cutting the power supply
- » Fuses / over current protect.
- » Programmable RAM controls with alphanumeric, display and one-button navigation
- » PGU interface
- » Menu levels: manual/emergency
- » Climatix IC Cloud remote access

### **Silencer sections**

- » Attenuation at 250 Hz from 14 to 40 dB depending on splitter length
- » Standard VDI 6022 conform

# ZHK VISION

## TECHNICAL DESCRIPTION

The ZHK VISION unit series is a frameless, modular panel construction with continuous aluminum profiles on the top and bottom edges of the unit. The construction consists of a double-shell casing panel with a thickness of 50 mm, composed of an inner cover and a removable outer cover. These are thermally separated by PVC plug-in profiles. Non-flammable mineral wool is used for unit insulation (fire protection class 0 according to ISO II 82.2 and A1 according to DIN 4102), which is ideal for sound and heat insulation. Various types of insulation with densities of up to 150 kg / m<sup>3</sup> are optionally possible. We use sheets up to 1.5 mm thick for the panels. The units can be made of galvanized sheet metal, epoxy or PVC coated sheet metal, stainless steel 304 and stainless steel 316 or aluminum in order to do justice to the most diverse applications.

Our Air Handling Units are equipped with spacious inspection and maintenance doors in panel thickness. The door leaves are thermally separated between the inside and outside by plastic frames. We use adjustable hinges made of die-cast zinc for fastening the door leaves. Alternatively, we can also use clamping brackets for inspection accesses, which are opened less frequently. All door handles are equipped with locks.

All materials used have been tested by an autonomous testing institute for the requirements of VDI 6022 and found to be good.

### Casing data (MB ZHK VISION) certified according to EN 1886:

- » Mechanical casing strength: Class **D1(M)**
- » Casing leakage at -400 Pa: class **L1(M)**
- » Casing leakage at +700 Pa: class **L1(M)**
- » Filter bypass leakage: Class **F9(M)**
- » Thermal transmittance: class **T2**
- » Thermal bridge factor: class **TB1**

#### » **Proven sound insulation of ZHK casing**

The sound insulation of our panels is regularly tested and confirmed by independent laboratories. The tests are conducted according to the standards EN 1886 and EN ISO 3744. The following sound insulation values have been certified for the casing construction ZHK VISION:

Frq. Hz	125	250	500	1000	2000	4000	8000
Octave Band (dB) Modelbox test 2018	15	23	31	33	35	36	45

These data demonstrate that the construction of our casing achieves excellent sound insulation values. For detailed information on the test methods, please feel free to contact us.

- » Performance data certified in compliance with DIN EN 13053

#### **Special materials**

- » Stainless steel AISI 304 / AISI 316
- » Epoxy coating
- » Powder coating
- » AMC coating (antimicrobial powder coating)

#### **"Weatherproof" version**

- » Weatherproof roof with drip nose in inclined and flat design
- » Sealing of the panels and large watertight service doors

#### **Hygiene version (in addition to the standard)**

- » All components are removable
- » Floor panel made as a tub in 3-fold inclined design
- » Panel joints on the inside with permanently elastic, fungicidal sealing compound, seamlessly and steam-tight puttied
- » Manufactured in accordance with DIN 1946-4 / VDI6022 / SWKI / ÖNORM ...

#### **ATEX**

In compliance with ATEX directive 2014/34 EU.

## Production sites of Euroclima Group



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Euroclima July 2025  
Due to our commitment to continuous product development and improvement, Euroclima reserves the right to make technical changes.

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