

ZHK UP

*Vertical Air Handling units
with openings at the top*



euroclima®
We care for better air



WE CARE FOR
BETTER AIR



THE COMPANY

Since 1963 Euroclima has been a market leader in the production and worldwide distribution of climate control units and fan convectors.

We develop, produce and market **high quality climate control and ventilation products** for all areas. From simple, convenient applications to solutions in hygiene and air processing plants. Euroclima is an international industrial business working across **5 production sites in Italy, Austria, India and the United Arab Emirates and with over 40,000m² of production sites**. Our core competencies are the production and the worldwide distribution of customized air handling units and fan coil units.

We strive to exceed our clients' expectations through innovation, quality and a comprehensive service. Euroclima currently employs **over 450 members of staff** in addition to a widespread **distribution network** with sales and service branches in the whole of **Europe, Asia, the Middle East, North Africa and Australia**. Cooperation with partners in various countries enables us to cover an extensive market whilst providing optimal customer service.



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

OUR CERTIFICATIONS

PROVEN QUALITY

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

The specified unit data are guaranteed by **different certifications**. This applies both to the components used and to the mechanical characteristics of the casing.

Our units are **tested for the casing characteristics according to EN 1886 by TÜV Süd**.

For medical and special hygienic applications, where the air cleanliness in the critical zones is essential, Euroclima has developed innovative and unique options to comply with highly demanding regulations such as the **VDI 6022, the DIN 1946-4, the SWKI 99-3, the ÖNORM H 6020 or the HTM 03-01 NHS**. Also, units to be installed in hazardous areas, can be certified according to the **ATEX directive 2014/34/EU**.

The **European regulation EU No. 1253/2014** is implementing the Ecodesign requirements from the European directive 2009/125/EG for non-residential ventilation units. Euroclima Air Handling units can be selected to this standards.

In addition to the **quality management certification ISO 14001:2015, ISO 45001:2018 and ISO 9001:2015** Euroclima has a policy to continuously improve its administrative and manufacturing processes to provide products with top quality and reliability for the satisfaction of our customers. Because every project is unique, every country has its own laws and regulations, every building its own constraints, Euroclima participate to a number of international certification programs, related to quality, performances, hygiene or energy consumption.

Our units are marked with the **CE symbol** according to EU-regulation 765/2008. With the CE marking, the manufacturer indicates the conformity of the product with the "basic requirements" to be fulfilled according to the relevant harmonization guidelines.





ZHK UP **VERTICAL AIRFLOW**



Our solution for low space

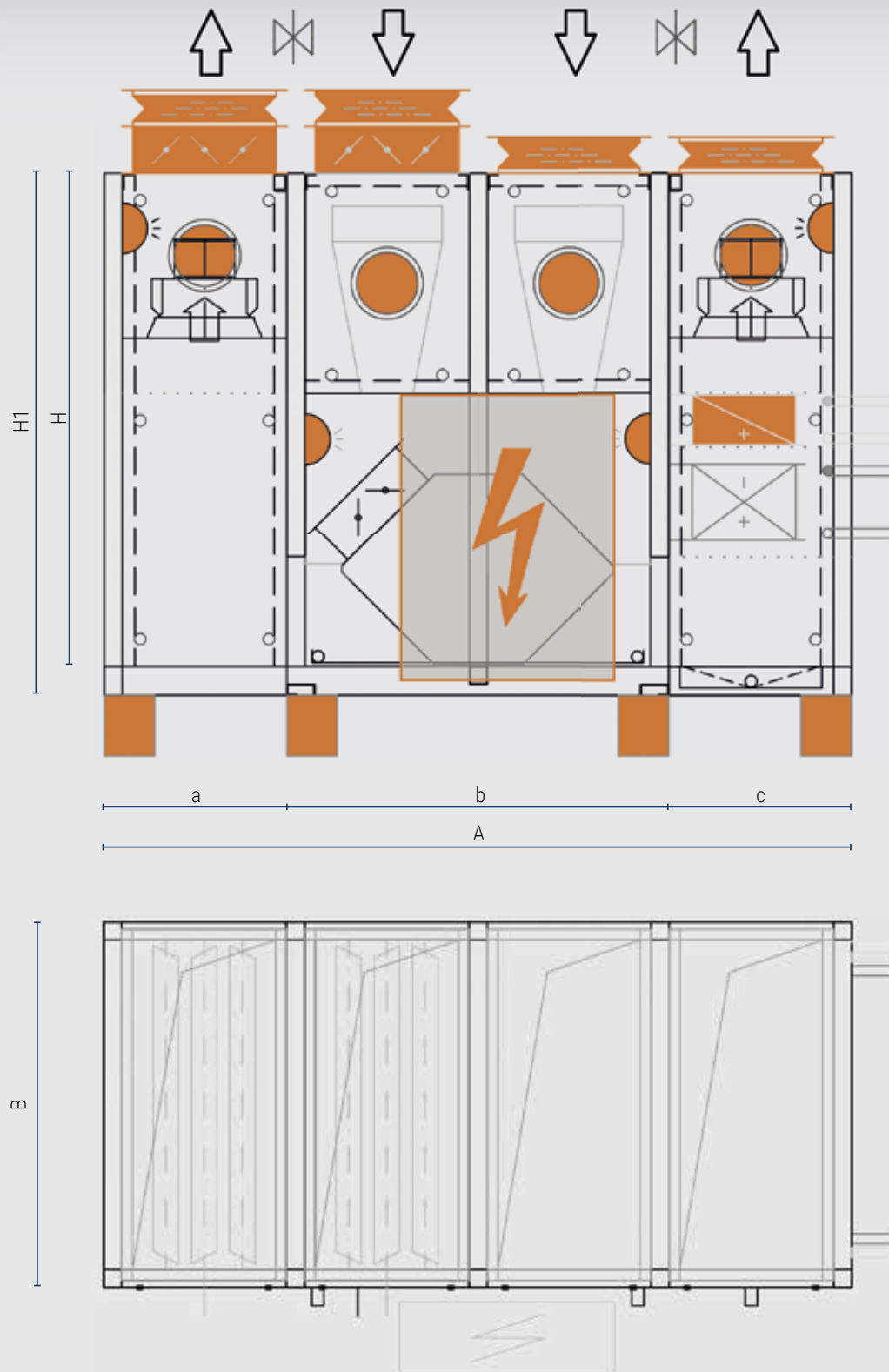
Compact dimensions for your applications.

The Euroclima ZHK UP units have been developed to bring **fresh air** into your building **in the most economical way possible and simultaneously with minimal space requirements**. All components were selected on the basis of an optimal price/performance ratio and the operating parts are adapted to the current safety guidelines. The ZHK UP unit works with energy-efficient high-performance EC fans, glass fiber pocket filters on the fresh air and exhaust air side and heat recovery with highly efficient countercurrent plate heat exchanger.

Due to its compact design with **vertical discharge and exchange**, the ZHK UP is ideal for use where space is limited. Its **narrow and at the same time low design** allows that the unit can be easily integrated into existing rooms without additional structural changes. The units can be delivered as monobloc or in free sections.

ZHK UP units are the first choice for your **indoor climate in office buildings, schools, hotels, airports, shopping centers, fitness studios, etc.**

The performance data and the mechanical characteristics of the ZHK UP unit series have been **tested in an independent test facility** according to EN13053 and EN1886 and are **certified** according to EUROVENT.



The colored components can be selected as options.

ZHK UP

UNIT STRUCTURE

Standardized compact units

nevertheless you decide about the configuration!

The ZHK UP units are available **up to 4.800 m³/h**.

In order to save complex assembly work on site, the unit can be delivered in one piece as a monoblock. If you have to bring the unit through small openings, it can also be dismantled into 2 or 3 parts.

You decide about the configuration of the unit. Do you need a cooling coil or a reheater? Does the situation call for frost protection or are adjustable feeds desired as an option? We are happy to do it because we at Euroclima never lose sight of customer requirements in the cost-optimized standardization of a product. It goes without saying that the ZHK UP unit naturally meets the requirements of VDI 6022.

The Euroclima Air Handling units are available with **factory mounted controls**, including:

- » the complete control panel
- » the control peripherals
- » the units are tested and pre commissioned at the factory, which result in high reliability, time saving and trouble free commissioning for our customers
- » Climatix IC Cloud remote access (optional)

ZHK UP						
Unit sizes			6/4,5	9/4,5	9/6	12/6
External dimensions of the unit	A	mm	2080	2080	2690	2690
External dimensions of the unit	B	mm	710	1015	1015	1320
External dimensions of the unit	H	mm	1372,5	1372,5	1677,5	1677,5
External dimensions of the unit	H1	mm	1452,5	1452,5	1757,5	1757,5
Dim. in length exhaust air on the left	a	mm	507,5	507,5	660	660
Dim. in length plate heat exchanger	b	mm	1065	1065	1370	1370
Dim. in length supply air on the right	c	mm	507,5	507,5	660	660
Airflow		m³/h	1.600	2.500	3400	4800

* applies to standard configuration 300 Pa ext. pressing

ZHK UP

Excellent accessibility through doors over the entire height of the casing.



OUR COMPLETE SOLUTIONS



Fan section

- » fan with EC motor

Heater- Cooling section

- » Heater H²O / Glycol / Condenser
- » Cooler H²O / Glycol / direct evaporator

Energy recovery section

Plate heat exchangers with high levels of efficiency (countercurrent plate heat exchangers)

Filter section

- » bag filter

Control unit

Connections for mains supply / external inputs

Main switch for cutting the power supply

Fuses / over current protect.

Programmable RAM con-trols with alphanumeric display and one-button navigation

PGU interface

Manual/emergency operating level

repair switch

Volume flow measuring device (analogue/digital)

ZHK UP

TECHNICAL DESCRIPTION

The ZHK UP series is a frameless, modular panel construction with an integrated base frame made of galvanized sheet steel and continuous aluminum profiles. The construction consists of a double-shell housing panel with a thickness of 50 mm, consisting of an inner cover and a removable outer cover which are thermally separated by PVC plug-in profiles. Non-flammable mineral wool (fire protection class 0 according to ISO II 82.2 and A1 according to DIN 4102), which is ideal for sound and heat insulation, is used for device insulation. Various types of insulation with densities of up to 150 kg / m³ are optionally available. Euroclima uses sheets up to 1.5 mm thick for the panels.

Our air handling units are very generously equipped with inspection and maintenance doors in panel thickness. The door leaves are thermally separated on the inside and outside by plastic frames. We use adjustable hinges made of die-cast zinc for fastening the door leaves. 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 INOVA) certified according to EN 1886:

- » Mechanical casing strength: Class D1
- » Casing leakage at -400 Pa: class L1
- » Casing leakage at +400 Pa: class L1
- » Filter bypass leakage: Class F9
- » Thermal transmittance: class T2
- » Thermal bridge factor: class TB2
- » Sound attenuation R_w (DIN52210-03): 36dB
- » Sound insulation of the panel certified according to EN 1886 and EN ISO 3744:

Frq. Hz	125	250	500	1000	2000	4000	8000
Okt. dB	15	23	31	33	35	36	45

- » Performance data certified according to DIN EN 13053

Hygienic execution (in addition to standard)

- » All components are removable
- » Floor panel where necessary 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...





JABER AL AHMED AL JABER AL SABAH HOSPITAL KUWAIT



HOLY HARAM MOSQUE MEKKAH - SAUDI ARABIA



CRUISERS, FERRIES, YACHTS, TANKER - WORLDWIDE



PARCO DELLA MUSICA - ITALY



HILTI INNOVATION CENTER - LIECHTENSTEIN



INFINEON



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KASHAGAN ÖLPLATTFORM - KASACHSTAN

WORLDWIDE FLAGSHIP PROJECTS



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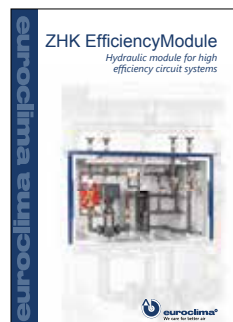
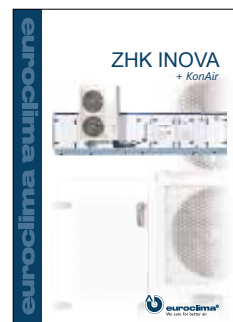
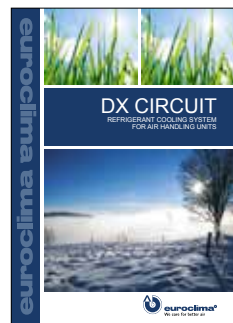
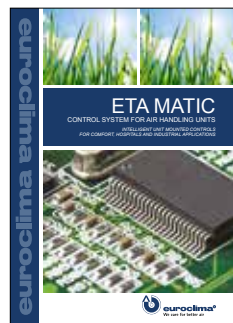
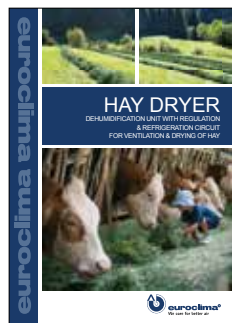
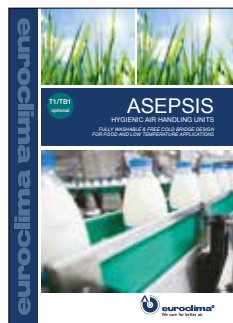
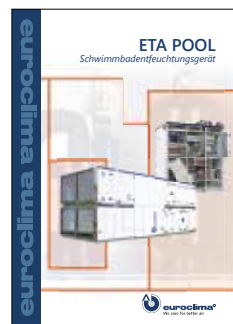
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Euroclima product catalogues



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Due to its commitment of continuous product development and improvement, Euroclima reserves the right to change specifications without notice.



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