



CUSTOMIZED AIR HANDLING SYSTEMS
ENVIRONMENT AND HYGIENE-FRIENDLY SOLUTIONS



euroclima®
We care for better air

	page
Index	1
The Euroclima company	2
Manufacturing and distribution	3
High tech manufacturing.	4
Customer services	5
Certifications.	6
Certified performances	7
Euroclima refrigeration	8
Controls and Integrated refrigeration.	9
Energy saving solutions	10
Medical and pharmaceutical solutions	11
Design & selection software	12
ZHK – Customized solutions.	13
CLEANLINE – Medical solutions	15
ETA ACCU – Green building solutions.	16
ETA POOL – Indoor swimming pool solutions.	17
ETA PAC – Adiabatic cooling	18
MARINE – Marine and offshore solutions	19
ZHK nano – Compact air handling unit	20
ASEPSIS / FI – Food industry	21
KITCHEN – exhaust solutions.	22
Euroclima fan coil units	23
References	24



Your best partner for air handling

Since 1963 Euroclima has been the market leader in custom-made climate control and air-conditioning units.

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 and the use of highly efficient heat recovery systems. Euroclima is an international industrial business working across 5 production sites in Italy, Austria, India and the United Arab Emirates with over 40000 squared metres of production sites. Our core competencies are the production and the worldwide distribution of high-end, fully-developed climate control units and fan convectors.

We strive to exceed our clients' expectations through innovation, quality and a comprehensive service. Euroclima currently employs over 450 permanent members of staff. Furthermore, Euroclima has 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 providing optimal customer service.

Our strengths

Outstanding **quality management** processes through ISO 9001:2015; **customized solutions** through unmatched flexibility; low energy consumption due to high-efficiency components and ideal unit selections; high reliability thanks to high quality components; innovation based on **50 years of experience**; integration of the latest and best technologies; unique hygienic and clean concept solutions for an optimal indoor climate and a healthy and productive environment; guaranteed results due to certified products; design of products with the main focus on safety; products featuring quick installation and easy maintenance; customer service from the design stage through to spare-part supply; customized controls; **plug and play solutions** thanks to compact units with integrated refrigeration circuit; special solutions for particular projects such as ATEX requirements, data-centers, installations in the food industry or sound sensitive projects.

Success story

The secret of Euroclima's long-standing and continuous success lies in the efficient project-management and the distinctive customer-orientation. We understand and address to our customer's needs and offer tailor-made solutions to optimize operating costs. This is achieved by:

- our professionalism and the commitment of all our employees
- our teamwork and the close relationships with our distributors, customers and suppliers
- our many years of experience and know-how in elaborating innovative solutions
- the quality, sustainability and reliability of our products



Euroclima Bruneck (IT)



Euroclima Sillian (AT)



Euroclima Indien (IN)



Bini Clima Rovereto (IT)



Euroclima Middle East



Euroclima worldwide presence

HIGH TECH MANUFACTURING



Quality is our absolute priority, as a result we have **first class suppliers**, high-quality production methods and toughest quality criteria. Detailed discussions with our customers contribute to a clear understanding of their needs and a thorough project elaboration. **Highly qualified and conscientious personnel** combined with the **latest manufacturing technologies** enable us to provide customized products with **highest quality and reliability**, at the right price and with shortest delivery times.



CUSTOMER SERVICES



Technical support

Our teams and partners are available to **help you on technical or commercial matters**, provide you information about deliveries, offers, orders, warranty or spare parts supply. Don't hesitate to call us.



Design assistance

Thanks to our experience, **our expert teams** and our **powerful design software**, Euroclima can help you find the best **technical and economical solution** to complete successfully your projects.



Factory acceptance tests and on site commissioning

To demonstrate the quality and the performances of our products, we are able to **perform witness tests either in our facilities** or on job site. Volumetric tests (airflow/pressure), acoustic, vibrations, air leakage, casing deflection, filter bypass leakage, casing thermal performances can be organized upon request. When required, Euroclima **service teams provide on site assembly assistance and unit commissioning**.



Service & spare parts supply

Euroclima ensure after sales service, **maintenance and supply of spare parts** for the entire range of our equipment's.

CERTIFICATIONS



Higher expectations

In addition to the quality management certification in place in all of our facilities, 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 it's own constraints, Euroclima participate to a number of international certification programs, related to quality, performances, hygiene or energy consumption.

In term of performances, the more complete certification program is definitively the Eurovent certifications which certify the performances of the components, as part of the units, but also the mechanical characteristics of the housing, as described in the next page. Components certified according to other programs can be offered, such as AHRI certified coils.

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

CERTIFIED PERFORMANCES

The purpose of Eurovent certification program is to create a common set of criteria for the rating of products. Through specification of certified products, the engineer's tasks become easier, since there is no need to carry out detailed comparison and performance qualification testing. Consultants, contractors and end users can select products with the assurance that the catalogue data are accurate.

When a manufacturer participates in a certification program, he has to present its list of models or model ranges together with their performance data. The files are evaluated by Eurovent certification and a predefined number of units are selected for testing by independent laboratories. Models are subject to regular random testing to verify compliance with the catalogue data.

The selection software certified by Eurovent certification must calculate and indicate the Eurovent energy classes on the data sheets.



Class	Reference table for energy efficiency calculations			
	All units	Units for full or partial outdoor air at design winter temperature ≤ 9°C		
	Velocity	Heat recovery system		Fan Efficiency Grade
	V _{class} [m/s]	η _{class} [%]	Δp _{class} [Pa]	NG _{ref-class} [-]
A+/A+ /A+↑	1,4	83	250	64
A/A /A↑	1,6	78	230	62 (ErP Fan)
B/B /B↑	1,8	73	210	60
C/C /C↑	2,0	68	190	57
D/D /D↑	2,2	63	170	52 (ErP Vent)
<E/<E /<E↑	No calculation required			No requirement

Performances certified by Eurovent

- Rating performances, as per EN 13053:
- Air flow - available static pressure
 - Power input
 - Octave band in-duct sound power level
 - Radiated sound power level
 - Heating capacity
 - Cooling capacity
 - Heat recovery
 - Water pressure loss

- Mechanical characteristics, as per EN 1886:
- Casing strength
 - Casing air leakage
 - Filter bypass leakage
 - Casing thermal transmittance
 - Thermal bridging factor
 - Casing acoustical insulation

Certified performances (MB) of Euroclima products

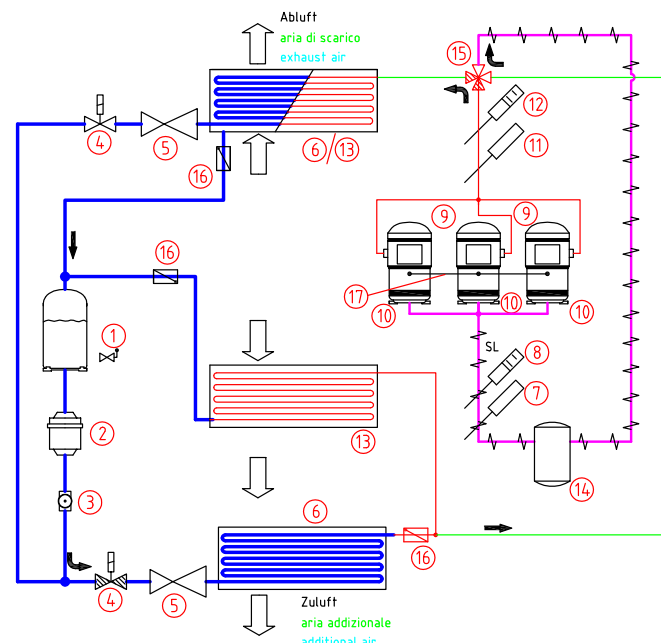
Mechanical classes certification as per EN 1886		Best class achieved
Casing strength	D1	
Casing air leakage	L1	
Filter bypass leakage	F9	
Casing thermal transmittance	T2	
Thermal Bridge Factor	TB2	



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

Customised refrigerant cooling system

This compression refrigeration system by Euroclima is sold complete with necessary components and corresponding controls. For smaller units which are constructed as mono-block, the cooling circuit is completely evacuated, subjected to a pressure test and then filled with a refrigerant. For units in sections, this must be carried out on site. To provide a seamless service for customers, Euroclima maintains a service team with refrigeration technicians. The technicians possess all the necessary certificates and training to meet the legal requirements of operating compression refrigeration systems. compressor with VFD. systems use the environment friendly R407C & R410A refrigerant.



- ⚙️ Ausgelegt, montiert und berechnet im Werk
- ⚙️ Intelligente Regelungsstrategie
- ⚙️ Schnelle und einfache Installation
- ⚙️ Umweltfreundlich
- ⚙️ Verantwortlichkeit liegt in einer Hand

Euroclima controls

The Euroclima air handling units are available with factory mounted controls, including a complete control panel with circuit breaker, overload protection, variable frequency convertors and programmable controllers, control peripherals such as temperature and humidity sensors, pressure switches, damper actuators, valves etc. The units are tested and pre-commissioned in the factory; this has been proven to result in high reliability, time saving and trouble-free commissioning for our customers.



Controllers are supplied with programmed software



Euroclima integrated refrigeration

The Euroclima ETA and Cleanine series are available with built in cooling or reversible air cooled systems, installed in both exhaust and fresh air streams. The refrigeration systems can be customized with optimized components to reach the highest EERs & COP possible for your specific needs. The integrated air condensers are installed in the exhaust air streams (in cooling mode), which provide very high efficiency and minimized footprint as external condenser are not needed anymore. High quality scroll compressors, mounted on isolators make the systems highly reliable, with minimum maintenance. Protection devices such as low and high pressure switches, refrigerant dryers, and expansion tanks guaranty a safe and long lasting operation. The complete systems are controlled with dedicated cooling controllers and thermostatic expansion valves. Our refrigeration systems use the environment friendly R407C & R410A refrigerant.

- ⚙️ Factory designed, fitted & tested
- ⚙️ Intelligent controls strategies
- ⚙️ Easy and fast installation
- ⚙️ Environment friendly
- ⚙️ Single source of responsibility



Integrated refrigeration from Euroclima



control box
designed and manufactured
by Euroclima

Euroclima recovery systems

The ZHK units are designed and manufactured with green environment in mind. The casing and 90% of the components used can be recycled.

Our advanced selection software allow us to optimize each unit to reach the best solution for each of your project, with the highest efficiency, the optimized dimensional constraints at the right price.

Euroclima use and promote the newest technologies to minimize the energy consumption of the complete air conditioning system.



-  Ventilation energy savings
-  Heat generation energy saving
-  Cooling production energy savings
-  EcoDesign compliance
-  Minimized carbon footprint and life cycle costs



High efficiency run around coils



Integrated refrigeration



Frequency invertors



Direct driven plug fans and EC motors



Adiabatic cooling



Thermal wheels



Plate heat exchangers



Accumulator

Clean concept as standard

Beside the environmental concern, Euroclima's focus is to insure comfortable and healthy indoor climate. As standard, our products provide the basic characteristics to provide the right Indoor Air Quality: Highest casing air tightness, smooth internal walls, minimized dust traps, anti corrosion protections, in compliance to the EN 13053 standard. Lots of options are also available to meet your own requirements: filters from G2 to H14, inclined floor in all sections, anti-bacteriological sealants, all components easily removable, 3 slope inclined drain pans easily removable, wash down sections...

Anti-microbial coating (AMC)

The Euroclima anti-microbial coating (AMC) is a surface treatment applied on the inner skin of the unit casing. This coating includes natural ingredients and silver ions having the propriety to stop the microbes and bacteria growth, thus to reduce the risks of contamination and infections. This coating, having active effects for more than 10 years has been tested by independent laboratories.



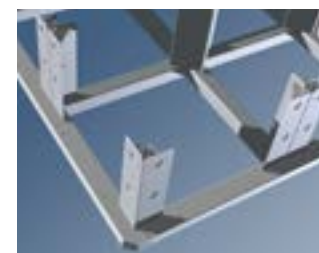
Smooth internal walls for easier cleaning

-  Smooth internal walls
-  High casing air tightness
-  Easy-to-clean design
-  High filtration efficiency
-  VDI 6022 & DIN 1946-4 compliant

Health care solutions

Euroclima has developed unique hygienic options for demanding applications such as operating theatres or pharmaceutical clean rooms:

- The Euroclima Anti-Microbial Coating (AMC) to avoid microbial growth in the air stream
- The new air-tight dampers, class 4 according to EN 1751
- Leak-proof Euroclima HEPA filter frame systems filter safe
- UVC systems to treat air or water against contamination



Leak-proof HEPA filter frames
FILTER SAFE



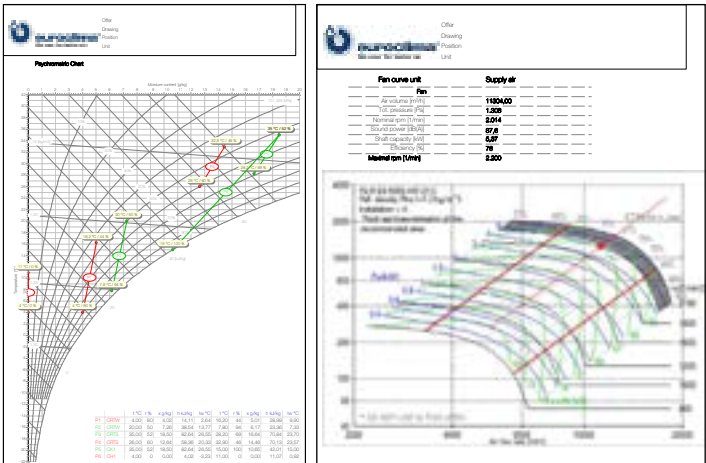
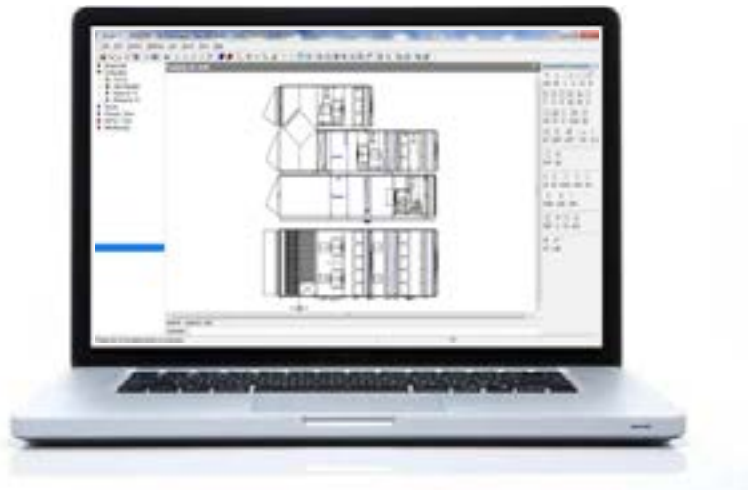
Wide choice of filters from G2 to H14



New Euroclima damper class 4 - EN 1751

Customized units designer

AirCalc++, our selection program is one of the most sophisticated design software for Air handling Units available on the market. It is the result of years of experience in designing and optimizing customized air handling units. The performances provided by this software are certified by Eurovent certification. It allows to select virtually all possible configurations, components or options to reach your exact project constraints. Detailed data sheets, in duct and radiated sound levels, Autocad format drawings, product specifications, Psychometric charts, fan curves, SFPs and energy classes can be viewed and printed from our software.



- Eurovent certified software
- Unmatched flexibility
- Precise data sheets
- Dwg/dxf drawings edition
- Fan curves, mollier chart and acoustic data

euroclima
 2016 - smart - low footprint air

UFC024++

Offer Position
 Project
 Drawing
 Date
 Client
 Street
 Client request no
 Revision

TECHNICAL DATA

Supply air		Size 15/9	Weight 253 [kg]	Surface 23,2 [m²]	Velocity 2,25 [m/s]	EEC A	
Configuration		TF-RF-VF-K-FR-H-TF		Dimensions [mm]	L 4.270,0	W 1.625	H 1.096
Air volume [m³/s]		11,304		Panel inside Panel	60,0 [mm]	Galvanized steel	1,00 mm
External pressure drop [Pa]		400		Inside bottom		Galvanized steel	
Total pressure drop [Pa]		1309		Guides		Galvanized steel	
Specific fan power [w/m³/s]		1,628		Outer skin		White A47SME	0,70 mm
Exhaust air		Size 15/9	Weight 258 [kg]	Surface 5,1 [m²]	Velocity 2,25 [m/s]	EEC A	
Configuration		TF-RF-VF		Dimensions [mm]	L 2.440,0	W 1.625	H 1.096
Air volume [m³/s]		11,304		Panel inside Panel	60,0 [mm]	Galvanized steel	1,00 mm
External pressure drop [Pa]		400		Inside bottom		Galvanized steel	
Total pressure drop [Pa]		828		Guides		Galvanized steel	
Specific fan power [w/m³/s]		1,268		Outer skin		White A47SME	0,70 mm
Supply air							
TF	Bag Filter			016,0 [mm]	4,47 [m²]	148,00 [kg]	109 [Pa]
Manufacture Type				Filter surface [m²]	14,20		
Init. Del. Pmax [Pa]		110x~70°C		Cells pos x size [mm]	2 x	692,0	x
Airflow [m³/s] (Bag)		53-152-250			2 x	692,0	692,0
Length [mm]		11,304			1 x	287,0	692,0
		650,0					287,0
				Galvanized Frame (front removable)			
Standard hinged door		EUT.	Access side left	Dimensions [mm]	457,5 x 915,0 - Pn		
(800)		1 Pos	Door lock		1,625,0 x 915,0		
Opening		7	Full opening	Dimensions [mm]	1,625,0 x 915,0		
(25)		Damper	Frame	Galva	See to	Yes	
Guide type			Blades	AL	Blade drive	Gear/wheels / PPGF	
(20)		Flexible canvas	Galva	Temperature [°C]	60,00	Dimensions [mm]	1,625,0 x 915,0 x 140,0
(25)		1 Pos	Equipmented with 6 mm²				
(178)		1 Pos	Isolated microclimate 0...200 Pa				
(174)		1 Pos	Differential pressure switch DEL-2009 60...600				
(178)		2 Set	Pn Pressure test points				

www.euroclima.com

made in europe

Casing constructions

The innovative casing construction of the ZHK makes the units extremely flexible to cover a wide range of applications from comfort to process applications.

The standard range offer the highest flexibility available on the market place:

- Any possible unit configuration
- Any type of components available on the market
- Anti corrosion protections, including galvanized steel, 130 µm PVC coating, epoxy painting, peraluman, stainless steel 304 or 316L
- Large choice of options and accessories
- 100 % hygiene and attenuation material
- Factory mounted controls and refrigeration



- Unlimited flexibility
- High built quality & reliability
- Hygienic design
- High efficiency
- Certified performances

Casing characteristics

- 50mm thick double skin panels
- Standard casing: metal sheet 0,7 up to 1,5 mm
- Incombustible insulation, glass fiber or rock wool, from 20 to 150 kg/m³
- Fire class: A1/A2 as per EN 13-501-1 A1 as per DIN 4102
- Upper profiles in epoxy painted aluminium
- Integrated base frame from 80 to 200 mm

Eurovent certified classes, as per EN 1886 (MB):

- D1/L1/F9/T3/TB2 (ZHK Standard)
- D1/L1/F9/T3/TB2 (ZHK Industry)
- D1/L1/F9/T2/TB2 (ZHK INOVA) with thermal break



ZHK - Industry

The incredible flexibility of the ZHK range make it the best choice for industrial and process projects: car industry, aerospace halls, textile factories, power stations, research centers... All these kinds of applications require sometimes higher features than what is typically needed for comfort and commercial applications: Very large air volumes, very accurate temperature and/or humidity control, very high external static pressure, extremely aggressive environment, filtration of special compounds...

The ZHK units can be manufactured in accordance to the ATEX regulations. The integrated components such as fans, filters, belts, motors, and all electrical components shall be ATEX compliant.

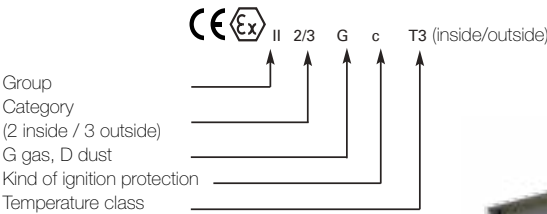


ATEX compliant solutions

Areas with danger of explosion have to be classified in zones according to the frequency and period of time when occurrence of explosive atmospheres (gas/air, vapor/air mixtures and/or mixtures of dust/air) occurs. This is defined in directive 2014/34 EU. The manufacturer shall declare the conformity in accordance with the ATEX regulation.

ATEX classification is split into two groups:
Group I: Underground mining. Not applicable for AHU
Group II: Over ground installations, categories 1, 2 and 3.

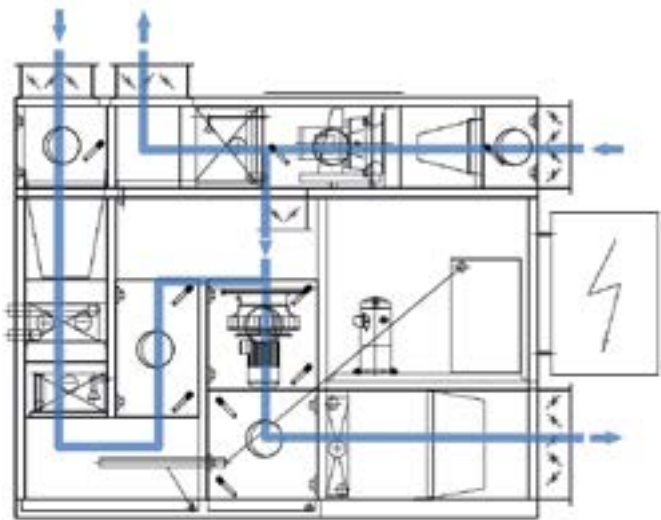
Euroclima can provide ATEX compliant units which are approved by TUV S ddeutschland.



ZHK

Air handling units for operating theatres

The challenges in providing precise and reliable air-handling equipment in operating theatres and critical care rooms in hospitals are greater than in any other sector. Yet, the Cleanline series has been developed to meet these requirements. The Cleanline unit is used to optimise indoor air temperature, ventilation and humidity levels to suit your individual settings. This is done in line with legal requirements and also allows for an unrivalled sense of comfort and well-being. A further emphasis is placed on optimal energy consumption, which is achieved via a sophisticated integrated heat pump system and an advanced control unit. The Cleanline range is available in 5 unit sizes ranging from 1.000 to 10.000 m /h.



- Accurate indoor conditions
- DIN 1946-4 & VDI 6022 compliant
- Factory mounted controls
- Integrated heat pump option
- Compact, easy installation



CleanLine

Energy recovery with power pack

The energy required in the treatment of fresh air is a significant part of a building's total energy consumption. Euroclima has developed the ETA ACCU; a packaged unit equipped with a regenerative heat exchanger plus at least two static storage matrices. A damper system periodically alternates the airstreams. While one storage matrix is loaded with a warm airstream – the other is discharged with a cold airstream. This process is repeated in short intervals. This series encompasses 14 standard sizes with air volumes ranging from 1.500 to 40.000 m³/h.



- > 90% efficiency (sensitive) (EN 308)
- > 75 % humidity efficiency (EN 308)
- Packaged, compact unit with „plug & play“
- Optimised operation sequences
- Minimum maintenance



Accumulator with switching dampers



ETA ACCU

High de-humidification efficiency

Due to the high humidity in indoor swimming pools, it is essential that the air is dehumidified to provide comfort to visitors and to protect the furniture and the interior of the building. The ETA POOL series includes packaged units, cutting edge controls and an optional high efficiency dehumidification heat pump system. The series is divided into two product lines: ETA POOL SPA for small indoor pools e.g. private homes, hotels etc. from 1.000 to 5.200m³/h and ETA POOL OLYMPIC for medium sized and large indoor swimming pools from 6.000 to 37.000 m³/h, with dehumidification capacities from 6 to 215 kg/h. This new range is the result of our long-standing experience in indoor pool applications, combined with the finest technologies available on the market.



- Optimised operational sequences
- High dehumidification (VDI 2089)
- Packaged & compact unit with plug & play
- Heat recovery up to 92% (EN 308)
- VDI 6022 options

up
to 92 %
efficiency



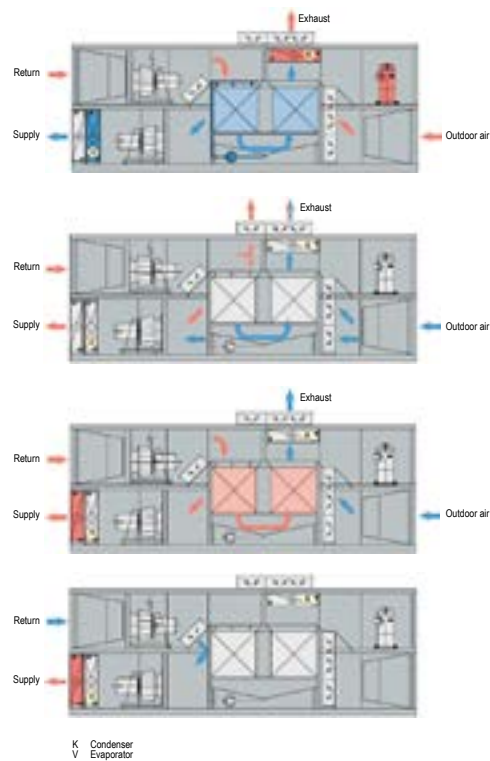
ETA POOL OLYMPIC



ETA POOL SPA

Efficient cooling equipment

The air conditioning and climate control system is one of the most important elements in data centres. Such centres require units to operate 24 hours a day, 7 days a week, 365 days a year, with high reliability, low running costs, easy maintenance, emergency management, and interconnectivity. The ETA PAC has been specifically designed for this purpose; a reliable compact unit equipped with double plate heat exchangers and an indirect adiabatic cooling system. Highly efficiency filters, factory mounted controls and an integrated heat pump, make this range the best choice for data centres, computer and server rooms, telecommunication rooms and laboratories. The application field covers air volumes from 1.000 to 30.000 m³/h.



- ⌚ High quality and reliability
- ⌚ Indirect adiabatic & free cooling
- ⌚ Heat recovery up to 75 % (EN 308)
- ⌚ Integrated refrigeration (optional)
- ⌚ Packaged & compact unit with plug & play



Adiabatic cooling system



ETA PAC

The best choice for ships & offshore

Marine and offshore applications require air-handling equipment to be especially designed in order to withstand extreme installation, working-and-operating conditions. The Marine Line series has been developed to meet the demands of the specific issues in this sector. Particular attention has been placed on the following: robust unit construction, high dimensional flexibility, components built to the highest standards, suitable corrosion protection, appropriately designed drainage trays, optimum system efficiency and compliance with the stringent marine & offshore standards and regulations. From containers ships and large cruise vessels to luxury yachts, the Marine Line is your best choice.



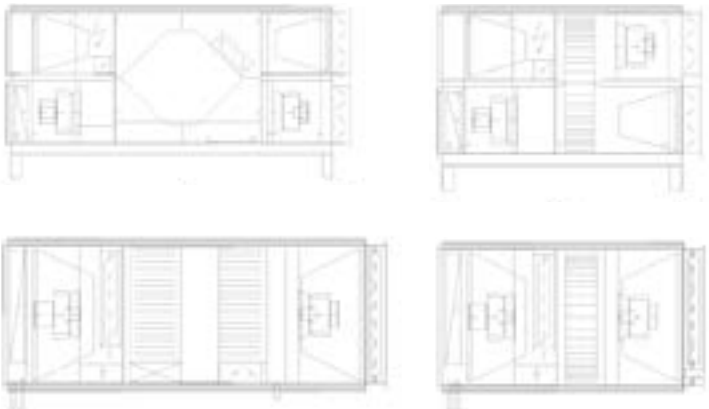
- ⌚ High reliability, efficiency, unmatched flexibility in design
- ⌚ Customised configurations and anti-corrosion protection
- ⌚ Compliant with marine standards
- ⌚ Easy to install and maintain with a long service life
- ⌚ Factory tested and commissioned



MARINE

ZHK NANO - minimum space requirements

The new ZHK NANO series has been designed to provide your building with fresh air in the most economical way and with minimum space requirements. All components have been selected on the basis of the best price/performance ratio and operating parts conform to current safety standards. The ZHK NANO range includes energy efficient, direct driven plug fans, fibre glass filters on the ventilation and fresh air streams and heat recovery devices such as a counter-flow plate heat exchanger or a heat wheel. The ZHK NANO is your first choice in providing the best indoor climate in; offices, schools, hotels, airports, shopping centres, fitness studios, etc. The ZHK NANO compact units are available in 3 sizes to cover air flow from 0,27 to 1,8 m³/s (1000 to 6500 m³/h). The unit performance data and the mechanical casing characteristics have been tested by a third party laboratory according to standards EN 13053 and EN 1886 and have been certified by EUROVENT.



- ⌚ Packaged, compact, plug & play
- ⌚ Integrated control
- ⌚ High efficiency components
- ⌚ Easy to install and maintain and long lasting lifetime
- ⌚ Factory tested



ZHK NANO

ASEPSIS - design free from cold spots

Hygiene and strict contamination control are strategic issues for food production companies. They have a direct impact on the quality of the products, the health and the safety of the consumers and also on the brand's image. To meet the high requirements of food production or cold room storage, Euroclima has developed the ASEPSIS unit, which consists of a casing made from reinforced fibre-glass and PVC panels, insulated with polystyrene. The casing is free of cold spots. The components are easily removable for cleaning processes, or if desired, delivered as an extendable version. The floor of the unit is tilted, with rounded corners and drainage outlets. The casing complies with T2/TB1 (T1/TB1 as an option) thermal classes. Available in air volumes up to 50.000 m³/h.



ASEPSIS

- ⌚ High pressure washable design
- ⌚ 70mm triple skin casing (FI)
- ⌚ T1/TB1 casing (ASEPSIS 100 mm option)
- ⌚ Easily removable components
- ⌚ Hygienic concept



FI

FI – 70 mm tripe skin casing

Another unit, especially designed for the food industry, is the FI series featuring a 70mm thick triple skin casing. The triple skin is made as one piece, fully welded in stainless steel, with rounded corners to allow for regular high pressure washing. The floor in each section is tilted towards washing outlet-drains. Internal components can be protected against corrosion according to the project specifications. As with the Asepsis model, all internal components can be easily removed without the use of special tools, or if preferred, delivered in an extendable version.

Units for restaurants and kitchens

In cooking, barbequing and frying the size of the air particles can be less than 1 micron. Such particles cause unpleasant smells and can also penetrate human lungs, causing damage to health. It is therefore important to remove these substances from the working areas in the kitchen and to provide harmless and neutral air extraction. When cooking and heating fatty and oily foods and via the processes of hydrolysis, pyrolysis and oxidation the following substances form; glycerine, free fatty acids, aldehyde, ketones, polymer triglyceride, nitrosamines and polycyclic aromatic hydrocarbons. Several of these are regarded as hazardous to health. The kitchen ventilation unit has been developed to clean the air and to neutralise odours before they are blown out into the atmosphere. To filter the broad spectrum of air particles and fission products, the unit is fitted with various filtration stages. The series encompasses 11 standard sizes from 1.000 bis 40.000 m³/h.



Aerosol panel filters $x > 100\mu\text{m}$



G4 panel filters $10\mu\text{m} > x > 100\mu\text{m}$



Electrostatic filters
 $0,01\mu\text{m} > x > 10\mu\text{m}$



Activated carbon filters
 $x < 0,01\mu\text{m}$ (odours)

- Packaged, compact unit with „plug & play“
- Corrosion protection
- Easy to clean
- Easy installation and maintenance
- Low noise levels



ZHK KITCHEN EXHAUST UNIT

Fan coil units

Euroclima offers a wide range of standardised terminal units for residential and commercial buildings such as; hotels, offices, schools, shops and hospitals. We produce fan coil units ranging from simple cost effective products for convenient use, to specialist equipment for marine or medical applications, such as double skin fan coils. Project specific products can also be designed with cutting edge components, such as EC motors or UVC lamps. All Euroclima terminals can be equipped with factory mounted controls.



EC motor technology

- Low noise levels
- EC motor technology
- Factory mounted controls (optional)



Decorative units



Cassett



Ducted units



Double skin self-supporting units

REFERENCES



Jaber Al Ahmed Al Jaber Al Sabah Hospital - KUWAIT



Shamiya Expansion - Holy Haram Mosque Mekkah - SAUDI ARABIA



Cruisers, Ferries, Yachts, Tanks - WORLDWIDE



Parco Della Muscia - ITALY



Dubai Mall, shopping centre - UAE



Dubai Sports Complex - UAE



Hilti Innovation Center - LIECHTENSTEIN



Orco Tower - POLAND

Euroclima group factories

Euroclima AG | SpA
St. Lorenzner Str. | Via S. Lorenzo 36
39031 Bruneck | Brunico (BZ)
ITALY
Tel. +39 0474 570 900
Fax +39 0474 555 300
info@euroclima.com
www.euroclima.com

Euroclima Apparatbau Ges.m.b.H.
Ambach 88
9920 Sillian
AUSTRIA
Tel. +43 (0) 48 42 66 61 -0
Fax +43 (0) 48 42 66 61 -24
info@euroclima.at
www.euroclima.com

Euroclima Middle East
P.O.Box: 119870
Dubai
UNITED ARAB EMIRATES
Tel. +9714 802 4000
Fax +9714 802 4040
eumeinfo@euroclima.com
www.euroclima.com

Euroclima India Pvt Ltd.
Office No. 501/505
Topical New Era Business Park,
Opp. ESIC Kamgar Hospital
Road No. 33
400 604 Maharashtra
INDIA
Tel. +91 22 4015 8934
info@euroclima.in
www.euroclima.com

Bini Clima S.r.l.
Via A. Prato, 4 / A
38068 Rovereto
ITALY
Tel. +39 0464 437 232
Fax +39 0464 437 298
info@biniclima.eu
www.biniclima.eu

Euroclima product catalogues



Euroclima January 2020
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euroclima®
We care for better air

euroclima



FI

HYGIENIC AIR HANDLING UNIT

FULLY WASHABLE UNITS FOR FOOD AND BEVERAGE INDUSTRY



euroclima®
We care for better air

CLEAN AIR SINCE 1963

reine luft seit 1963

aria pulita dal 1963



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HYGIENE OF FOODSTAFFS

hygiene in der lebensmittelverarbeitung igiene alimentare

SECTIONS

bauteile sezioni

In large-scale commercial food processing hygiene is a must. Bacterial contaminants in air-conditioning units can spread through the air ducts resulting in immensely high expenditures.

Using powerful cleansing agents and disinfectants in the food branch is extremely problematic; to some extent it is, in fact, prohibited.

Due to the chemical and thermal sensitivity of many fermenting and other technical food processes, frequent and long – because they are complicated – purification procedures in the air-conditioning unit can be impeding and detrimental to processing.

The ideal temperature and humidity levels necessary for many processes, all too often provide an ideal breeding ground for germs in those areas which are not easily accessible in the air conditioning unit, in particular on edges and in corners.

Within a short time span, maintenance and cleaning costs exceed the investment costs for the air-handling unit.

The solution

The new developed air-handling unit which has been designed with the needs of the food industry in mind.

Top criterion

The simplest cleaning method for cleaning the inside of the unit and its components.

Recommended cleaning

Steam cleaning; eventual addition of soft cleaning agents and drying by wiping.

Available sections

- pre-filter G2 (metal filter)
- pre-filter G3 (synthetic filter)
- bag-filter from M5 up to F9
- heating section
- cooling section with/without droplet separator
- fan-motor section
- aspiration section with/without damper
- mixing box with/without damper

Wo Lebensmittel in großen Mengen industriell verarbeitet werden, ist Hygiene das oberste Gebot. Bakterielle Verunreinigungen in Klimageräten können sich über die Luftkanäle ausbreiten und immense Folgekosten verursachen.

Der Einsatz aggressiver Reinigungs- und Desinfektionsmittel ist im Lebensmittelbereich äußerst problematisch, teilweise sogar verboten.

Wegen der chemischen und thermischen Sensibilität vieler Fermentierungs- und anderer lebensmitteltechnischer Prozesse, können häufige und lange – weil schwierige – Reinigungsarbeiten im Klimatisierungsbereich Prozeßabläufe behindern und Schäden verursachen.

Ideale Temperatur- und Feuchtwerte für viele Verarbeitungsprozesse bedeuten allzuoft auch ideale Bedingungen für Keimkulturen in schlecht erreichbaren Bereichen der Klimageräte, insbesondere Kanten und Ecken.

Die Wartungs- und Reinigungskosten übersteigen innerhalb kurzer Zeit die Investitionskosten des Luftbehandlungsgeräts.

Lösungsansatz

Neuentwicklung eines eigens für den Bedarf der Lebensmittelindustrie konzipierten Lüftungsgeräts.

Top-Kriterium

Einfachste Reinigbarkeit des Geräteinneren und der Einbauteile

Bevorzugte Reinigungsmethoden

Sprühreinigung (Dampfreinigung); eventuell Beigabe von mildem Reinigungsmittel und Wischtrocknung

Lieferbare Bauteile

- Vorfilter G2 (Metallfilter)
- Vorfilter G3 (Synthetikfilter)
- Taschenfilter M5 bis F9
- Erhitzersektion
- Kühlersektion mit/ohne Tropfenabscheider
- Ventilator-Motor-Sektion
- Ansaugteil mit/ohne Klappen
- Mischteil mit/ohne Klappen

Nella lavorazione dei generi alimentari l'igiene è da considerare di massima priorità. Contaminazioni batteriologiche originate nei condizionatori possono propagarsi nei canali e comportare alti costi, oltre a danni alla salute e al prodotto.

L'impiego di detergenti e sostanze disinfettanti nel settore della lavorazione alimentare è assai problematico.

Molti processi di fermentazione o altri processi nella industria alimentare sono sensibili alle oscillazioni di temperatura e cambiamenti dell'ambiente chimico. Lunghi e ripetuti lavori di pulizia degli impianti di aerazione possono ostacolare i processi stessi e causare gravi danni economici.

Parametri ideali di temperatura e umidità richiesti dai processi desiderati riflettono anche cause di origine e crescita di colture batteriologiche in zone difficilmente raggiungibili dei condizionatori, specialmente spigoli ed angoli.

I costi di manutenzione e pulizia eccedono in breve tempo il costo di investimento dell'unità di trattamento aria.

Soluzione

Sviluppo di una unità di trattamento aria appositamente ideata per le esigenze della industria alimentare.

Criteri di igienicità

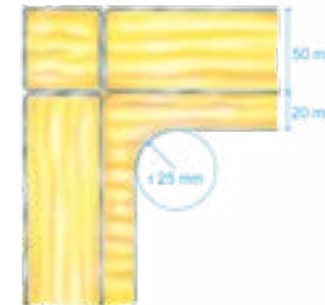
Rapidità e semplicità nel lavaggio dell'interno e dei componenti.

Trattamento consigliato

Pulizia a vapore; eventualmente con uso di un detergente blando.

Componenti disponibili

- prefiltro G2 (filtro metallico)
- prefiltro G3 (filtro sintetico)
- filtro a tasche da M5 a F9
- batteria di riscaldamento
- batteria di raffreddamento con/senza separatore di gocce
- sezione ventilante
- sezione aspirante con/senza serrande
- camera di miscela con/senza serrande



Rounded housing edges and corners.

Ausgerundete Gehäusekanten und -ecken.

Spigoli e angoli arrotondati.



Heating / cooling coil

Erhitzer- / Kühlersektion

Batteria di riscaldamento / raffreddamento



Filter section

Filter

Sezione di filtri per aria di ripresa



Unit interior consists entirely of a welded tank

Geräteinneres vollständig als geschweißte Kammer ausgeführt

Corpo interno del condizionatore completamente saldato



Fan motor assembly

Motor- Ventilatorbaugruppe

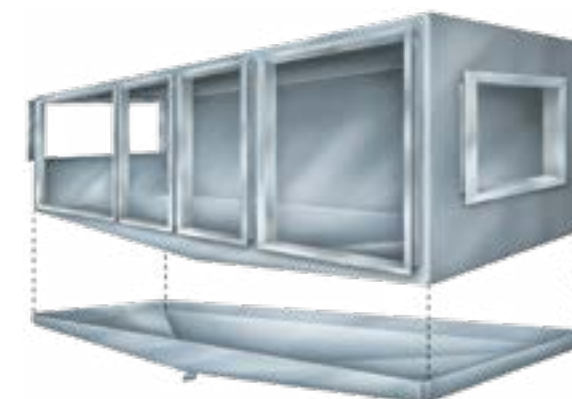
Gruppo ventilatore / motore



Components can be pulled out on sliding rails

Komponenten auf Gleitschienen ausziehbar

Componenti estraibili su guide



Unit floor is sloped inwards on all sides in order to drain in the center

Geräteboden als allseitig geneigte Wanne ausgeführt, gemeinsamer Ablauf

Vasca di fondo inclinata verso lo scarico unico

Gladly we insert also special components
Wir bauen auch Sonderkomponenten ein
Inoltre possiamo inserire componenti speciali

TECHNICAL SPECIFICATION

anlagebeschreibung

specifica tecnica

Technical specification FI

Air-conditioning units for use in the food branch, available in 7 sizes for an air volume of 4 000 up to 40 000 m³/h.

Optimal cleaning of equipment due to:

- the simplest method for removing all parts without having to use tools to do so
- the unit floor is a pan which slopes inwards on all sides and which is constructed with a central drain
- triple-paneled wall construction with a total insulation thickness of 70 mm (!)

Esecution

- the unit interior consists of a completely welded tank made out of stainless steel
- all of the housing corners and edges are rounded
- the fiber glass insulation has first-rate thermal properties
- the exterior walls consist of galvanized sheet steel (supporting panel) as well as galvanized/plastic-coated sheet steel (exterior surfaces)
- an optimal sound absorbtion of the housing
- panel surfaces are heat bridge free
- double-paneled doors, stainless steel interior, galvanized/plastic-coated exterior
- all of the guides and partition walls are welded; the corners are sealed using special PU-lute with resists all disinfectant agents
- it is standard that all housing parts that come in contact with air stream consist of stainless steel

Planning guides

The units cannot be taken apart in sections for delivery. This must also be taken into consideration regarding doorway dimensions.

The floor pan drains from the bottom. Accessory legs for the units are available. The floor pan is in the entire unit making a drop-let separater unnecessary in most cases.

Technische Beschreibung FI

Klimagerät für den Einsatz in der Lebensmittelbranche, lieferbar in 7 Gerätegrößen für Luftvolumenströme von 4.000 bis 40.000 m³/h.

Optimierte Gerätereinigung durch:

- Leichteste Ausziehbarkeit aller Bauteile ohne Werkzeug
- Geräteboden als allseits geneigte Wanne mit zentralem Ablauf ausgeführt
- dreifachwandiger Wandaufbau mit Gesamtisolierstärke 70 mm (!)

Ausführung

- Geräteinneres als vollverschweißter Tank aus Edelstahl ausgeführt
- sämtliche Gehäuseecken und -kanten gerundet
- Glasfaserisolierung mit hervorragenden thermischen Eigenschaften
- Außenwandung aus Stahlblech verzinkt (tragendes Paneel) sowie Stahlblech verzinkt oder kunststoffbeschichtet (Außenflächen)
- Optimale Schalldämmung des Gehäuses
- Paneelflächen wärmebrückenfrei
- Türen doppelwandig, innen V2A, außen verzinkt/kunststoffbeschichtet
- Sämtliche Führungen und Trennwände sind eingeschweißt, die Fugen mit desinfektionsmittelbeständigem Kitt versiegelt
- Serienmäßig alle luftstromberührten Gehäuseteile aus Edelstahl V2A

Projektierungshinweise

Die Geräte können nicht in Liefersektionen geteilt werden, dies muß auch bei den Einbringöffnungen berücksichtigt werden.

Der Ablauf der Bodenwanne erfolgt an der Unterseite. Gerätefüße sind als Zubehör lieferbar.Wegen der durchgehenden Bodenwanne kann ein Tropfenabscheider in den meisten Fällen entfallen.

Specifica tecnica FI

Condizionatore d’aria ideato per applicazioni nella industria alimentare; disponibile in 7 grandezze per portate d’aria da 4.000 fino a 40.000 m³/h.

Semplice lavaggio dell’interno data da:

- semplice rimozione di tutti i componenti senza l’ausilio di attrezzi
- fondo del condizionatore costruito a mono vasca, inclinato verso uno scarico centrale
- pannello tripla parete con spessore del termoisolamento totale di 70 mm (!)

Esecuzione

- corpo interno in acciaio inox completamente saldato
- tutti gli spigoli ed angoli interni arrondati
- isolamento in fibra di vetro con resistività termica ottimale
- carpenteria intermedia in lamiera zincata (pannello portante) e lamiera zincata con plastofilmatura (coperture esterne)
- alto grado di abbattimento del rumore grazie alla tripla parete
- pannelli senza ponti termici
- portine d’ispezione a doppia parete, lamiera in AISI 304, lamiera esterna in acciaio zincato con plastofilmatura
- tutte le guide e lamiere di tamponamento sono saldate, gli angoli sono sigillati con stucco che resiste a tutti i disinfettanti conosciuti
- tutte le parti della carpenteria in contatto con il flusso d’aria sono di acciaio inossidabile

Note per la progettazione

La divisione del condizionatore in sezioni per facilità del trasporto non é possibile. Questo é da considerare anche per le dimensioni di ingombro.

Lo scarico della vasca avviene al fondo. Piedini di rialzo sono disponibili come accessorio. A causa della vasca continua lungo tutto il condizionatore, non é necessario montare un separatore di gocce.

TECHNICAL DATA

technische daten

dati tecnici

FI	Wight / Breite / Lunghezza	Height / Höhe / Altezza	Coil Wärmetauscher Batteria		Airflow m³/s Coil face velocity Luftmenge m³/s Aufströmgeschwindigkeit auf Wärmetauscher Portata aria m³/s Velocità frontale sulla batteria				Airflow m³/s Fan size Luftmenge m³/s Ventilatorgröße Portata aria m³/s Grandezza ventilatori				
Type	mm	mm	Type	m	2,0 m³/s	2,0 m³/s	2,0 m³/s	2,0 m³/s					
9 / 9	1.015	1.045	12T - 745	0,5364	3.862 1,073	4.828 1,341	5.310 1,475	5.793 1,609	225	250	280	310	
12 / 12	1.320	1.350	17T - 1035	1,0557	7.601 2,111	9.501 2,639	10.451 2,639	11.402 3,167	355	400	450	500	
18 / 12	1.930	1.350	17T - 1625	1,6575	11.934 3,315	14.918 4,144	16.409 4,558	17.901 4,973	400	450	500	560	
18 / 15	1.930	1.655	22T - 1625	2,1450	15.444 4,290	19.305 5,363	21.236 5,899	23.166 6,435	450	500	560	630	710
21 / 15	2.235	1.655	22T - 1905	2,5146	18.105 5,029	22.631 6,287	24.895 6,915	27.158 7,544	450	500	560	630	710
21 / 18	2.235	1.960	22T - 1905	3,0861	22.220 6,172	27.775 7,715	30.552 8,487	33.330 9,258	500	560	630	710	800
21 / 21	2.235	2.265	32T - 1905	3,6576	26.335 7,315	32.918 9,144	36.210 10,058	39.502 10,973	560	630	710	800	900

Errors excepted we reserve the right of technical modifications relating product improvement without notice.
Irrtum oder technische Änderungen im Rahmen der Produktverbesserung vorbehalten.
Salvo errore ci riserviamo il diritto di modifiche tecniche senza preavviso in seguito al miglioramento del prodotto.



Euroclima group factories

Euroclima AG | SpA
St. Lorenzner Str. | Via S. Lorenzo 36
39031 Bruneck | Brunico (BZ)
ITALY
Tel. +39 0474 570 900
Fax +39 0474 555 300
info@euroclima.com
www.euroclima.com

Euroclima Apparatebau Ges.m.b.H.
Ambach 88
9920 Sillian
AUSTRIA
Tel. +43 (0) 48 42 66 61 -0
Fax +43 (0) 48 42 66 61 -24
info@euroclima.at
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Euroclima Middle East
P.O.Box: 119870
Dubai
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T1/TB1
optional

ASEPSIS

HYGIENIC AIR HANDLING UNITS

*FULLY WASHABLE & FREE COLD BRIDGE DESIGN
FOR FOOD AND LOW TEMPERATURE APPLICATIONS*



euroclima®
We care for better air

CONTENT

inhalt contenido

CLEAN AIR SINCE 1963

reine luft seit 1963 aria pulita dal 1963

Page | Seite | Pagina

3	About Euroclima	Über Euroclima	Su Euroclima
4	Hygiene	Hygiene	Igiene
5	Sections	Bauteile	Sezioni
6	Technical Specification	Anlagebeschreibung	Specifica tecnica
7	Technical data	Technische Daten	Dati tecnici



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HYGIENE OF FOODSTAFFS

hygiene in der lebensmittelverarbeitung igiene alimentare

SECTIONS

bauteile sezioni

The safety is a fundamental aspect of the food processing industry which extends from the requirements of the selling ways and the storage up to the risen requirements of the consumer.

As distribution companies and consumers are becoming increasingly demanding on food safety it is necessary to continuously develop new solutions in the technology of the single production phases. For the end user the hygiene in the food-processing and storage is the basis for safety and consequently the substantial parameter of quality.

For food production companies contamination control is a strategic issue. It has direct impact on their products, health and safety characteristics and influences the brand's reliability and quality image in customers minds.

Due to meet the requirements of hygiene the food-processing plants are built in accordance with following criteria:

- easy accessibility of the equipment for cleaning
- high surface quality of the materials, dirt and residuals of cleaning solvents are easily removable
- machines are designed to require a minimum of cleaning time
- in the process areas optimal air temperature, humidity and pureness are guaranteed and the oscillation of these parameters is kept within minimum limits

To meet these requirements Euroclima has developed the series ASEPSIS, air handling units which bring together a high hygienic standard, reliability of air parameters and high thermal and acoustic insulation.

Die Sicherheit der Lebensmittel gewinnt zunehmend an Bedeutung und erstreckt sich von den Anforderungen der Vertriebswege und der Lagerung bis hin zu den gestiegenen Ansprüchen des Verbrauchers.

Um die höchste Sicherheit und Hygiene während der einzelnen Produktionsschritte zu gewährleisten ist es erforderlich, permanent die technologischen Lösungen der Fertigungsanlagen weiterzuentwickeln. Für den Endverbraucher ist die Hygiene in der Lebensmittelverarbeitung und Lagerung die Basis der Sicherheit derselben und folglich das Grundparameter für die Qualität.

Die Exzellenz in der Hygiene hat aus diesem Grund für den Lebensmittelhersteller einen unmittelbaren Einfluss auf sein Image, auf seine Zuverlässigkeit und auf die Nährqualität der Produkte.

Um den Hygieneanforderungen gerecht zu werden sind die Anlagen nach folgenden Kriterien gebaut:

- leichte Zugänglichkeit für die Instandhaltung und Reinigung
- hohe Oberflächenqualität der Materialien, Schmutz und Rückstände von Desinfektionsmittel sind leicht zu entfernen
- Maschinen sind so konzipiert, dass die Reinigungszeiten und somit die Abschaltzeiten kurz sind
- in den Produktionshallen sind optimale Lufttemperatur, Luftfeuchtigkeit und Luftreinheit gewährleistet. Die Schwankungen dieser Parameter werden auf ein Mindestmaß beschränkt

Aufgrund dieser Anforderungen hat Euroclima die Serie ASEPSIS entwickelt. Es handelt sich dabei um schnell und einfach zu reinigende, raumluftechnische Geräte die ein hohes Maß an Hygiene gewährleisten und dabei präzise die vordefinierten Luftparameter einhalten. Und das Ganze bei hervorragenden thermischen und akustischen Isolationseigenschaften.

La sicurezza alimentare è un argomento al quale sono sempre più sensibili sia la grande distribuzione immagazzinaggio che gli enti di vigilanza sulla qualità e la sicurezza degli alimenti.

Per assicurare il massimo livello di igiene e di sicurezza nelle varie fasi della lavorazione è indispensabile lo sviluppo di nuove tecniche produttive. Per quanto riguarda il mercato, il consumatore considera sempre più l'igiene come la base stessa della sicurezza alimentare, e la ritiene quindi un parametro fondamentale nella valutazione della qualità dei prodotti.

Per un'azienda del settore agro-alimentare garantire l'eccellenza nell'igiene ha pertanto un impatto positivo immediato sull'immagine e sulla salubrità dei suoi prodotti e sull'affidabilità stessa del suo marchio.

A tal proposito si rendono necessaria l'adozione delle seguenti misure in materia di igiene:

- impianti costruiti secondo severi criteri di sanificabilità
- esecuzione dei materiali che garantisca la facile eliminazione di residui di detersivi e disinfettanti chimici
- macchinari ideati per una rapida pulizia in modo da limitare al minimo il tempo di manutenzione
- garanzia delle condizioni di temperatura, di purezza e di umidità ideale dell'aria e limitazione a un minimo delle oscillazioni di questi parametri

La risposta Euroclima alla necessità del settore agro-alimentare è concentrata nella serie ASEPSIS, Unità di trattamento dell'aria facilmente sanificabili ad un costo competitivo.

ASEPSIS



Drain pan from all directions inclined towards the drain connections

Gehäusewanne in jede Richtung zum Abfluss geneigt

Fondo della macchina inclinato verso gli scarichi dei drenaggi



Filter frames

Filterrahmen

Telai dei filtri



Fan motor assembly

Motor-Ventilatorbaugruppe

Gruppo ventilatore - motore



Mixing box with dampers

Mischteil mit Klappen

Camera di miscela con serrande



Heat exchanger

Wärmetauscher

Scambiatore di calore



All components removable on guides

Alle Bauteile auf Führungen ausziehbar

Rimozione di tutti i componenti su guide

Gladly we insert also special components
Gerne bauen wir auch Sonderkomponenten ein
Inoltre possiamo inserire componenti speciali

TECHNICAL SPECIFICATION

anlagebeschreibung

specifica tecnica

Technical specification ASEPSIS

- Monolythic housing made of:
 - outside fiberglass reinforced PVC
 - insulation of polystyrol ($\lambda D=0,0225$ WmK)
 - inside fiberglass reinforced PVC
- external edges protected by galvanized aluminium profiles or PVC
- triple inclined drain pands
- high chemical and mechanical resistance
- resistance against UV-rays
- thermic transmittance T2 (T1 optional)
- thermal bridge TB1
- Specific weight of insulation: 34 kg/m²
- Air tightness at -400 Pa: class L1 in compliance with EN 1886
- Air tightness at +700 Pa: class L1 in compliance with EN 1886
- Panel thickness: 53 mm
- removable heat exchangers with flanged collector connections
- heat exchangers certified by EURO-VENT Rating Standard 6/C/005/2009
- internal surfaces completely smooth with rounded corners
- drain pan from all directions inclined towards the drain connections
- all components removable on guides
- external surfaces completely smooth
- plug-fans
- unit suitable for external installation
- air volumes up to 55.000 m³/h
- Following sections are available:
 - flat filter EU4 – EU5
 - bag filter EU5 – EU9
 - heating section
 - cooling section
 - humidifier
 - post-heating section
 - fan section
 - HEPA-filter section
 - suction plenum with or without dampers
 - mixing section with or without dampers

Technische Beschreibung ASEPSIS

- Monolytisches Gehäuse in sandwich-bauweise:
 - aussen in glasfaserverstärkten Oberfläche
 - mit Polystyrolisolierung ($\lambda D=0,0225$ WmK)
 - innen in glasfaserverstärkten Oberfläche
- Aussenkanten durch eloxierte Aluminiumprofile geschützt oder PVC
- Auslaufwannen in dreifacher Neigung
- Hohe chemische und mechanische Festigkeit
- UV-beständig
- Wärmedurchgangsklasse T2 (T1 optional)
- Wärmebrückenfaktor TB1
- spezifische Dichte Isolierung: 34 kg/m²
- Luftdichtheit bei -400 Pa: Klasse L1 nach EN 1886
- Luftdichtheit bei +700 Pa: Klasse L1 nach EN 1886
- Paneelstärke 53 mm
- Ausziehbare Wärmetauscher mit geflanschten Kollektorschlüssen
- Wärmetauscher zertifiziert nach EURO-VENT Rating Standard 6/C/005/2009
- innere Oberflächen vollständig glatt mit abgerundeten Kanten für eine leichte Reinigung
- Wanne des Geräts in jeder Richtung gegen die Abflüsse geneigt
- alle Bauteile auf Führungen ausziehbar
- Gerät außen vollkommen glatt
- freilaufende Ventilatoren ohne Riementrieb
- Gerät für Außenaufstellung geeignet
- Luftmengen bis 55.000 m³/h
- Folgende Sektionen sind verfügbar:
 - Vorfilter EU4 – EU5
 - Taschenfilter EU5 – EU9
 - Heizsektion
 - Kühlsektion
 - Befeuchter
 - Nachheizsektion
 - Ventilatorteil
 - Absolutfilter
 - Ansaugteil mit oder ohne Klappen
 - Mischteil mit oder ohne Klappen

Specifica tecnica ASEPSIS

- corpo centrale in materiale composito. I pannelli sandwich sono formati da:
 - laminato esterno in vetroresina con finitura in gelcoat isoftalico
 - isolante in poliuretano espanso ($\lambda D=0,0225$ WmK)
 - laminato interno in vetroresina con finitura in gelcoat isoftalico
- spigoli esterni con angoli di protezione in alluminio anodizzato o PVC
- pavimento con tripla inclinazione
- alta resistenza meccanica, chimica e ai raggi ultra violetti.
- trasmittanza termica: classe T2 (T1 opzionale)
- fattore ponte termico: classe TB1
- Densità isolamento: 34 kg/m²
- Perdite della struttura -400 Pa: classe L1 EN 1886
- Perdite della struttura +700 Pa: classe L1 EN 1886
- Spessore pannello: 53 mm
- scambiatori di calore con collettori di alimentazione flangiati di facile estrazione
- scambiatori certificati secondo EURO-VENT Rating Standard 6/C/005/2009
- superfici interne completamente lisce con gli spigoli arrotondati per un elevato standard igienico
- fondo della macchina inclinato verso gli scarichi dei drenaggi che possono essere dotati di sifoni
- semplice e totale rimozione di tutti i componenti su guide in VTR / Acciaio inox.
- Ulteriore possibilità di pulizia esterna della macchina
- ventilatori plug-fan per una più facile pulizia
- l'esecuzione standard può essere posizionata anche in esterno
- portate fino a 55.000 m³/h
- Sezioni disponibili:
 - prefiltro EU4 – EU5
 - filtro a tasche EU5 – EU9
 - batteria di riscaldamento
 - batteria di raffreddamento
 - sezione d'umidificazione
 - batteria di post riscaldamento
 - sezione ventilante
 - filtri assoluti
 - sezione aspirante con/senza serrande
 - sezione miscela con/senza serrande

TECHNICAL DATA

technische daten

dati tecnici

ASEPSIS	Coil Wärmetauscher batteria		Coil face velocity Anströmgeschwindigkeit auf Wärmetauscher m/s Velocità frontale sulla batteria						Depth Tiefe Profondità	Height Höhe Altezza	
	Type1	Type2	m²	2	2,5	2,75	3	3,5	4	mm	mm
12 /12	19 T - 1005	1,146	8.249	10.311	11.342	12.374	14.436	16.498		1326	1551
15/12	19 T - 1310	1,493	10.752	13.440	14.785	16.128	18.816	21.504		1631	1551
18 /12	19 T - 1570	1,790	12.887	16.108	17.719	19.330	22.551	25.773		1936	1551
18 /15	24 T - 1595	2,297	16.537	20.671	22.738	24.805	28.940	33.074		1936	1856
18 /18	29 T - 1570	2,732	19.669	24.586	27.045	29.503	34.421	39.338		1936	2161
21/18	29 T - 1875	3,263	23.490	29.363	32.299	35.235	41.108	46.980		2241	2161
21/ 21	34 T - 1875	3,825	27.540	34.425	37.868	41.310	48.195	55.080		2241	2466
21/ 24	2 x 19 T - 1875	4,447	32.020	40.025	44.027	48.030	56.035	64.040		2241	2771

Errors excepted we reserve the right of technical modifications relating product improvement without notice.
Irrtum oder technische Änderungen im Rahmen der Produktverbesserung vorbehalten.
Salvo errore ci riserviamo il diritto di modifiche tecniche senza preavviso in seguito al miglioramento del prodotto.



Monolythic housing made of fiberglass-reinforced plastic
Monolytisches Gehäuse aus glasfaserverstärktem Kunststoff
macchina monolitiova con superficie in vetroresina

Euroclima group factories

Euroclima AG | SpA
St. Lorenzner Str. | Via S. Lorenzo 36
39031 Bruneck | Brunico (BZ)
ITALY
Tel. +39 0474 570 900
Fax +39 0474 555 300
info@euroclima.com
www.euroclima.com

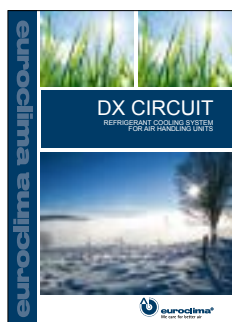
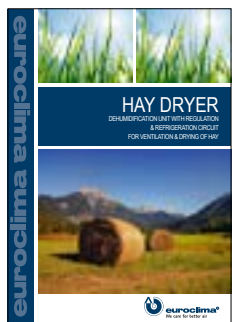
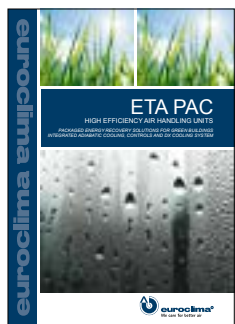
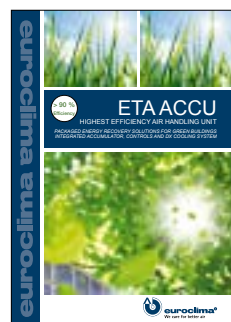
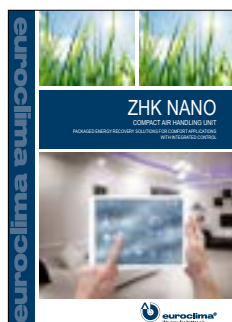
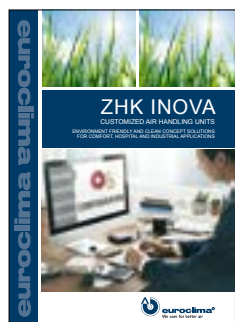
Euroclima Apparatebau Ges.m.b.H.
Arnbach 88
9920 Sillian
AUSTRIA
Tel. +43 (0) 48 42 66 61 -0
Fax +43 (0) 48 42 66 61 -24
info@euroclima.at
www.euroclima.com

Euroclima Middle East
P.O.Box: 119870
Dubai
UNITED ARAB EMIRATES
Tel. +9714 802 4000
Fax +9714 802 4040
info@euroclima.com
www.euroclima.com

Euroclima India Pvt Ltd.
Office No. 501/505
Topical New Era Business Park,
Opp. ESIC Kamgar Hospital
Road No. 33
400 604 Maharashtra
INDIA
Tel. +91 22 4015 8934
info@euroclima.in
www.euroclima.com

Bini Clima S.r.l.
Via A. Prato, 4 / A
38068 Rovereto
ITALY
Tel. +39 0464 437 232
Fax +39 0464 437 298
info@biniclima.eu
www.biniclima.eu

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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euroclima®
We care for better air

euroclima



ZHK 2000

CUSTOMIZED AIR HANDLING UNITS

*ENVIRONMENT FRIENDLY AND CLEAN CONCEPT SOLUTIONS
FOR COMFORT, HOSPITAL AND INDUSTRIAL APPLICATIONS*



euroclima®
We care for better air

CLEAN AIR SINCE 1963

reine luft seit 1963

aria pulita dal 1963



Euroclima is a company with extensive international operations and 5 manufacturing facilities in Italy, Austria, India and UAE and more than 36.000 m² of production and offices. We are specialized in the manufacturing and worldwide distribution of air handling units and fan coil units.

We try to exceed the expectations of our customers by innovation, quality and comprehensive service. Approximately 400 employees are at present employed. Euroclima has a well distributed network of sales and service all over Europe, Asia, Middle East and Northern Africa. Our partners in various countries assume a surface covering responsibility for marketing, local servicing and optimal assistance.

Euroclima ist ein international tätiges Industrieunternehmen mit 5 Produktionsstätten in Italien, Österreich, Indien und VAE mit gesamt über 36.000 m² Produktionsfläche. Unser Unternehmensziel ist die Herstellung und der weltweite Vertrieb von qualitativ ausgereiften Klimazentralgeräten und Ventilator-konvektoren.

Wir versuchen die Erwartungen unserer Kunden durch Innovation, Qualität und umfassenden Service zu übertreffen. Euroclima beschäftigt derzeit circa 400 festangestellte Mitarbeiter. Weiters hat Euroclima ein breitgestreutes Distributionsnetz mit Verkauf und Servicenerlassungen in ganz Europa, Asien, Nahen Osten und Nordafrika. Die Kooperationspartner in verschiedenen Ländern sorgen für eine flächendeckende Marktbearbeitung und optimale Servicebetreuung.

Euroclima è un'azienda attiva a livello internazionale con 5 stabilimenti di produzione in Italia, Austria, India e UAE con più di 36.000 m² di spazio produttivo e uffici. Obiettivo dell'azienda è la produzione e la distribuzione in tutto il mondo di unità di trattamento aria e unità fan coil.

Soddisfiamo le aspettative dei nostri clienti attraverso innovazione, qualità e assistenza. Attualmente Euroclima si avvale della collaborazione di quasi 400 dipendenti. Euroclima si avvale di un'ampia rete di distribuzione con uffici vendita e servizi sparsi in tutta l'Europa, Asia, Medio Oriente e Nord Africa. Questa rete capillare di professionisti in diversi paesi si occupa di marketing e del servizio di assistenza.

certificati



INDOOR AIR TREATMENT

raumklimatisierung condizionamento per spazi chiusi

Increasingly high demands are constantly being made of modern buildings in terms of air quality and economics. Against a background of rising energy prices, the building shell is being increasingly insulated and sealed. Consequently, in new purpose-built buildings the heat transmission load is often well below that of the ventilation heat requirement. Energy-saving air handling optimised to particular requirements is thus one of the most important planning functions in building technology. The running costs of the building are largely determined by this factor. At the same time, the user's sensitivity to air quality is increasing and importance is placed on avoiding the harmful effects of buildings on people (key word: sick building syndrome).

An moderne Gebäude werden ständig höhere Anforderungen hinsichtlich Raumluftqualität und Wirtschaftlichkeit gestellt. Vor dem Hintergrund steigender Energiepreise wird die Gebäudehülle immer hochwertiger, wärmegeklämt und abgedichtet. Dadurch liegt der Transmissionswärmebedarf bei neuen Zweckbauten meist deutlich unter dem Lüftungswärmebedarf. Die energiesparende, und dem Bedarf optimal angepasste Luftaufbereitung, ist so eine der wichtigsten Planungsaufgaben der Gebäudetechnik. Die Betriebskosten des Gebäudes werden wesentlich durch diesen Faktor mitbestimmt. Gleichzeitig steigt die Sensibilität der Nutzer für die Luftqualität und es gilt schädliche Gebäudeeinflüsse auf den Menschen (Stichwort SBS-Syndrom) zu vermeiden.

Negli edifici moderni aumentano costantemente le esigenze in termini di qualità dell'aria ambiente e di economicità. Alla luce dell'incremento dei prezzi dell'energia, la struttura esterna degli edifici è sottoposta ad interventi sempre più sofisticati di isolamento termico e protezione. Ne consegue che, nei nuovi edifici, il fabbisogno di calore in termini di trasmissione risulta notevolmente inferiore al fabbisogno di calore in termini di ventilazione, per lo meno nella maggior parte dei casi. Così, il trattamento dell'aria, volto al risparmio energetico e ottimizzato rispetto ai fabbisogni, rappresenta oggi una delle sfide progettuali più importanti nel campo dell'edilizia. Tale fattore, infatti, contribuisce a determinare, in maniera sostanziale, i costi d'esercizio di qualsiasi edificio. Al contempo, cresce anche la sensibilità degli utenti nei confronti della qualità dell'aria negli edifici e la necessità di evitare ripercussioni dannose sulla salute dell'uomo (sindrome SBS).

Most of the persons spend 90% of the time indoor. Consequently the quality of the modern room climate is essential for the living comfort. It must provide for a healthy, germ-free air and a pleasant room climate, which promote our well-being and our efficiency. Since the eighties the so called Sick Building Syndrom (SBS) is intensively analysed, frequent evidence of physical imbalance affect negatively the health. Fundamentally these are the main hygienic risks:

- toxic parts in the air
- allergic symptoms
- noise, light, smell, humidity, temperature
- infections

Euroclima units set new standards of ventilation technology and air-conditioning. Features of the units include innovative technological design, reduced operating costs and compact dimensions. The units meet all hygiene requests.

Der Großteil der Menschen verbringt 90% der Zeit in geschlossenen Räumen. Diese Tatsache stellt besonders hohe Anforderungen an eine moderne Klimatechnik. Sie muss für gesunde, keimfreie Luft und ein angenehmes Raumklima sorgen, die unser Wohlbefinden und unsere Leistungsfähigkeit fördern. Seit Beginn der 80er Jahre wird das so genannte Sick-Building-Syndrom (SBS) diskutiert, ein häufiges Auftreten von Befindlichkeitsstörungen, die folgende potentiellen Risiken einer gesundheitlichen Gefährdung bewirken:

- Toxische Belastungen
- Allergene Belastungen
- Lärm, Licht, Geruch, Feuchtigkeit, Temperatur
- Mikrobielle Besiedlung im Sinne von Infektionsrisiken

Euroclima Raumluftgeräte setzen heute neue Maßstäbe in der anspruchsvollen Lüftungs- und Klimatechnik. Es zeichnet sich durch innovative Technik, optimierte Betriebskosten und kompakter Bauweise, unter Berücksichtigung der geltenden Hygienennormen aus.

La maggior parte delle persone passa il 90% del tempo in ambienti chiusi. Le esigenze di mantenere il comfort climatico interno sono elevate. Deve provvedere ad un'aria sana e germ-free e ad un clima piacevole della stanza, che promuove il nostro benessere e la nostra efficienza. Dagli inizi degli anni '80 viene discussa la sindrome SBS (Sick-Building-Syndrom), la quale di frequente causa scompensi al benessere psicofisico. Questi sono i principali rischi connessi:

- intossicazioni
- allergie
- rumore, luce impropria, odore, umidità, temperatura
- infezioni macrobiotiche

Euroclima unità definiscono nuovi standard nella ventilazione e nella tecnologia del condizionamento d'aria, un campo da sempre noto per i suoi severi requisiti. Le caratteristiche delle unità includono un design tecnologico innovativo, la riduzione dei costi operativi e dimensioni compatte. Le unità rispondono totalmente ai requisiti dalle normative igieniche.

SECTIONS OF THE

auflistung der bauteile

ZHK 2000



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 device for air volume (analogue or digital)
- Repair switch
- Belt guard protection or grid for inspection door

Ventilatorsektionen

- Radialventilator mit Riementrieb
- Radialventilator mit freilaufendem Rad
- Radialventilator mit freilaufendem Rad und Außenläufermotor
- Luftgekühlter Drehstrommotor nach IEC-Normen einstufig oder zweistufig
- Volumenstrom-Messvorrichtung (analog / digital)
- Reparatur-Schalter
- Riemenschutz bzw. Türschutzgitter

Sezioni ventilanti

- Ventilatore radiale con trasmissione a cinghia
- Ventilatore radiale a girante libera
- Ventilatore radiale a girante libera con motore esterno
- Motore elettrico secondo norme IEC a una o due polarità; autoventilato
- Sistema di misurazione portata aria (analogico – digitale)
- Sezionatore per manutenzione
- Carter di protezione trasmissione o grata di protezione anti-infortunio



Heater- Cooling section

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

Erhitzer- Kühlersektion

- Erhitzer H2O/ Glycol
- Kondensator
- Dampferhitzer
- Elektroerhitzer
- Kühler H2O/ Glycol
- Direktverdampfer

Sezioni di riscaldamento / raffreddamento

- Batteria ad acqua/ acqua glicolata
- Condensatore
- Batteria a vapore
- Batteria elettrica
- Batteria a acqua/ acqua glicolata
- Batteria ad espansione diretta



Filter sections

- Panel filter G2-G4, F5
- V-bank filter G2-G4, F5
- Auto roll filter G3
- Bag filter G4-F9
- Compact filter M5-F9
- Absolute filter H10-H14
- Activated carbon filter
- Filter Safe®

Filtersektionen

- Paneelfilter G2-G4; F5
- V-Bank Filter G2-G4; F5
- Rollbandfilter G3
- Taschenfilter G4-F9
- Kompaktfilter M5-F9
- Absolutfilter H10-H14
- Aktivkohlefilter
- Filter Safe®

Sezioni filtri

- Prefiltri a pannello G2-G4; F5
- Filtri a banco a "V" G2-G4; F5
- Filtri a rullo G3
- Filtri a tasche G4-F9
- Filtri compatti M5-F9
- Filtri assoluti H10-H14
- Filtri a carboni attivi
- Filter Safe®

AIR HANDLING UNIT

sezioni dell'unità di trattamento aria



Energy recovery section

- Diagonal plate heat exchanger PTD: single or double with efficiency up to 90%
- Heat wheel RT: condensation wheel, enthalpy wheel, sorption wheel
- Run around coil system KV
- Heat pipe
- Energy recovery for special applications with glass tube or stainless steel tube exchanger
- SPC-System

Energierückgewinnungssektionen

- Diagonal Plattentaucher PTD - einstufig oder zweistufig mit Wirkungsgraden bis 90%
- Rotationstauscher RT: Kondensations-Rotor, Enthalpie-Rotor, Sorptions-Rotor
- Kreislaufverbundsystem KV
- Wärmerohre
- Wärmerückgewinnung für Spezialanwendungen mittels Glasrohr bzw. Edelstahl - Röhrentauscher
- SPC-System

Sezioni di recupero energia

- Recuperatore a piastre a flussi incrociati PT: singolo o due in serie con rendimenti fino a 90%
- Recuperatore rotativo RT: Rotore a condensazione; rotore entalpico; deumidificatore rotativo
- Sistema di recupero a batterie collegate a circuito chiuso KV
- Tubi di calore
- Recupero di calore per applicazioni speciali con tubi di vetro o scambiatori in inox
- SPC-System



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
- Modem modules: advanced telecommunication (diagnosis, parameter download,...)

Schalt- und Regeleinrichtung

- Klemmen für Hauptanspeisung bzw. bauseitige Komponenten
- Hauptschalter für die Abschaltung der Gerätezuleitung
- Sicherungen bzw. Überlastungsschutz
- Programmierbare Steuerung und Regelung mit Grafik Display und Einknopfbedienung
- Programmier-Schnittstelle PGU
- Hand-/Notbedienebene
- Modem-Module für anspruchsvolle Telekommunikation (Fernwartung, Datenabfrage,...)

Quadro di comando e regolazione

- Già previsti i morsetti per l'alimentazione principale e per i componenti a cura dell'installatore
- Sezionatore principale per ciascun componente della regolazione
- Dispositivi di protezione
- Il dispositivo di controllo è programmabile attraverso azionamento ad un tasto con display grafico
- Interfaccia PGU
- Azionamento d'emergenza manuale
- Moduli modem per allacciamento a sistema di gestione dei dati remoto



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

Befeuchtersektionen

- Dampfbefeuchter
- Elektroden-Dampf-Luftbefeuchter
- Widerstands-Dampf-Luftbefeuchter
- Gas-Dampf-Luftbefeuchter
- Dampf-Luftverteilersysteme für Fremddampf
- Adiabate Befeuchtungssysteme
- Hochdruckbefeuchtung mittels Zerstäubungsdüsen
- Hybrid-Luftbefeuchter
- Luftwäscher
- Kontaktbefeuchtungssysteme
- Ultraschallbefeuchtung

Sezioni di umidificazione

- Umidificatori a vapore
- Produttore vapore elettrico ad elettrodi immersi
- Prod. vap. el. a resistenza immersa
- Prod. vap. con caldaia a combust. gas
- Sistemi di distribuzione vap. di rete
- Sistemi di umidificazione adiabatici
- Umidificazione ad acqua ad alta pressione con ugelli atomizzatori
- Umidificatore ibrido
- Lavatore aria
- Sistemi di umidifica. ad evaporazione
- Umidificazione ad ultrasuoni



Silencer sections

- Attenuation at 250 Hz from 14 to 40 dB depending on splitter length
- Sound attenuation off splitters, Data referring to ISO 7235 / DIN 45646, Splitter-type 105 R+F, Splitter with 230 mm, Relative section 1m³, Nominal length in mm: 610, 915, 1220, 1525, 1830, 2135

Schalldämpfersektionen

- Dämpfung bei 250Hz je nach Länge von 14 bis 40dB
- Einfügungsdämpfung von Schalldämpfern, Angaben bezogen auf ISO 7235 / DIN 45646, Kulissen-typ S105 R+F, Kulissenstärke 230 mm, Bezugsfläche 1m³, Nennlänge in mm: 610, 915, 1220, 1525, 1830, 2135

Sezione silenziatore

- Attenuazione alla banda d'ottava 250Hz da 14 a 40 dB in funzione della lunghezza delle culisse
- Abbattimento del rumore attraverso i silenziatori secondo ISO 735 / DIN 45646, Culissa tipo R+F, larghezza 230 mm, area di riferimento 1m³, lunghezza nominale (mm) 610, 915, 1220, 1525, 1830, 2135

Gladly we insert also special components
Wir bauen auch Sonderkomponenten ein
Inoltre possiamo inserire componenti speciali

TECHNICAL anlagebeschreibung



Technical specification ZHK 2000

Housing assembled with self supporting, frameless, modular panels with base frame integrated into the unit and aluminium profiles along the upper sides of the unit. Inside and outside walls completely smooth.

The 50 mm thick double skin panel contains a glass fibre insulation, complying with fire protection class 0 of ISO 1182.2 and class A1 of DIN 4102. The fibre glass guarantees an optimal thermal and acoustic insulation. On the front sides of the inner panels there are centred holes at a distance of 152,5 mm each. Through these holes the panels are fixed to each other. In order to obtain a high stability of the structure, the inner panel has two bending on the outer side, allowing consequently an easy assembly of the outer panel skin. Additionally, the overlapping sheets on the angles are micro welded on each other. A quick assembly and disassembly of the outer panel skin is possible through the international patented snap-in-assembly construction with a special profile on the inner side of the outer panel skin.

The air handling units are equipped with large dimensioned access doors in same thickness and execution as panel, door frame made of aluminium, special rubber seal with welded corners, adjustable hinges, safety locks. The doors are foreseen for fan- filter- and humidifier section. Removable inspection panels with patented service locks are foreseen for prefilters and anti-frost frame sections and on request also for other sections. The execution is the same as the panel, door frame made of aluminium, rubber seal.

With screws removable panels are foreseen for electric heater section and on request for other sections. The execution is the same as the panel, door frame made of aluminium.

Certified data of AHU casing conform to EN 1886

- Casing strength: class D1
- Casing air leakage at -400 Pa: class L1
- Casing air leakage at +700 Pa: class L1
- Filter bypass leakage: class F9
- Incombustible fibre glass insulation thickness 50 mm
- Performance data certified in compliance with DIN EN 13052
- Heat exchangers certified in compliance with EUROVENT Rating Standard 6/C/005/2009.
- Base frame made of galvanized sheet metal, hot dip galvanized or painted steel profiles for big units.

Panel executions „Standard“

- Inner skin: 1,00 mm galvanized sheet
- Outer skin: 0,7 mm galvanized sheet with additional surface coating in white plastic type A47SME, thickness 130 µm
- Thermal transmittance: class T3
- Thermal bridging factor: class TB2
- Sound attenuation Rw (DIN 52210-03): 36dB
- Sound attenuation of the panel certified in compliance with EN 1886 and EN ISO 3744:

Freq. Hz	125	250	500	1000	2000	4000	8000
Oct. dB	17	27	31	32	34	37	42

- Calculated heat transfer coefficient
 $U = 0,59 \text{ W/m}^2\text{K}$

Panel execution „Industrial“

- Inner skin: 1,50 mm galvanized sheet
- Outer skin: 1,0 mm galvanized sheet with additional surface coating in white plastic type A47SME, thickness 130 µm
- Thermal transmittance: class T3
- Thermal bridging factor: class TB2
- Sound attenuation Rw (DIN 52210-03): 41dB
- Sound attenuation of the panel certified in compliance with EN 1886 and EN ISO:

Freq. Hz	125	250	500	1000	2000	4000	8000
Oct. dB	19	29	31	30	32	36	34

Special materials

- Stainless steel
- Aluminium
- Epoxy-Coating
- Powder coating

Weatherproof execution (in addition to standard)

- Weatherproof canopy
- Additional sealing of the panels and watertight service doors

Hygienic execution (in addition to standard)

- All components are removable
- Floor panel made as inclined drain pan
- Inner panel connections sealed with special sealant, steam tight, resistant to all known disinfectants and cleaning agents
- Manufactured in accordance with DIN 1946-4

ATEX

In compliance with 94/9EG / ATEX 100a



Technische Beschreibung ZHK 2000

Selbsttragende, rahmenlose, modulare Paneel-Konstruktion mit integriertem Grundrahmen aus verzinktem Stahlblech und durchgehenden Aluminiumprofilen an den Geräteoberkanten.

Gehäusepaneel doppelschalig, bestehend aus Innen- und Außendeckel vollkommen glatt mit dazwischenliegender nicht brennbarer Glasfaserisolierung (Brandschutz- Klasse 0 nach ISO II 82.2 und A1 nach DIN 4102), optimal zur Schall- und Wärmedämmung. An den umlaufenden Stirnflächen des Innendeckels werden mittig Lochungen im Rastermaß von 152,5 mm hergestellt um die Paneele zu verbinden. Zur Aufnahme des Außendeckels und zur Erhöhung der Stabilität der gesamten Gehäusekonstruktion wird der Innendeckel an der Außenseite mit einem Doppelbug versehen. Die überlappenden Bleche in den Ecken werden miteinander verpresst bzw. verschweißt. Durch eine spezielle Profilierung an der Innenseite des Außendeckels können die Vorteile der international patentierten Nut-Schnapp-Verbindung voll genutzt werden. Die Vorteile liegen in der raschen Montage bzw. Demontage der Außendeckel.

Lüftungsgeräte mit großflächigen Inspektions- bzw. Wartungstüren; Gerätetüre, vorgesehen für Ventilator-, Filter- und Befeuchterbauteil, in Paneelstärke; Türrahmen aus Aluminium inklusive Hohlprofilabdichtung mit verschweißten Ecken; einstellbare Scharniere und Sicherheitsverschlüsse; Abnehmbare Inspektions- bzw. Wartungsdeckel, vorgesehen für Frostschutzrahmen, Paneelfilterbauteil, annähernd in Paneelstärke, können bei Bedarf auch für alle anderen Bauteile geliefert werden; Rahmen aus Aluminium; Türdichtung, mit Klapp/Dreh-Verschlüssen.

Abschraubbare Inspektions- bzw. Wartungsdeckel, vorgesehen für Elektroheizregister, annähernd in Paneelstärke, Rahmen aus Aluminium, Türdichtung, mit dem Türrahmen verschraubt. Abschraubbare Inspektions- bzw. Wartungsdeckel können bei Bedarf auch für alle anderen Bauteile geliefert werden.

Gehäusedaten nach EN 1886 zertifiziert:

- Mechanische Gehäusefestigkeit: Klasse D1
- Gehäuseleckage bei -400 Pa: Klasse L1
- Gehäuseleckage bei +700 Pa: Klasse L1
- Filter-Bypassleckage: Klasse F9
- Nicht brennbare Glasfaserisolierung 50 mm
- Leistungsdaten zertifiziert nach DIN EN 13052
- Wärmetauscher (Kühler und Erhitzer) zertifiziert nach EUROVENT Rating Standard 6/C/005/2009
- Grundrahmen aus verzinktem Stahlblech bzw. aus verzinkten oder lackierten Stahlprofilen bei Großgeräten

SPECIFICATION

specifica tecnica

Specifica tecnica ZHK 2000

Panelausführung „Standard“

- Innenschale verzinktes Stahlblech 1,0 mm
- Aussenschale verzinktes Stahlblech 0,7 mm mit zusätzlicher Kunststoffbeschichtung 130 µm, Type A47SME, Farbe weiß
- Wärmedurchgang: Klasse T3
- Wärmebrückenfaktor: Klasse TB2
- Schalldämm-Maß R_w (DIN 52210-03): 36 dB
- Schalldämmung des Paneels zertifiziert nach EN 1886 und EN ISO 3744:

Freq. Hz	125	250	500	1000	2000	4000	8000
Okt. dB	17	27	31	32	34	37	42

- Kalkulierte Wärmedurchgangszahl $U = 0,59 \text{ W/m}^2\text{K}$

Panelausführung „Industrie“

- Innenschale verzinktes Stahlblech 1,5 mm
- Außenschale verzinktes Stahlblech 1,0 mm mit zusätzlicher Kunststoffbeschichtung 130 µm, Type A47SME, Farbe weiß
- Wärmedurchgang: Klasse T3
- Wärmebrückenfaktor: Klasse TB2
- Schalldämm-Maß R_w (nach DIN 52210-03): 41 dB
- Schalldämmung des Paneels zertifiziert nach EN 1886 und EN ISO 3744:

Freq. Hz	125	250	500	1000	2000	4000	8000
Okt. dB	19	29	31	30	32	36	34

Sondermaterialien

- Edelstahl
- Peraluman
- Epoxy-Lackierung
- Pulverbeschichtung

Ausführung „Wetterfest“

- Wetterfestes Dach mit Tropfnase
- Eindichtung der Paneele und großflächige wasserdichte Bedienungstüren

Ausführung Hygiene (zusätzlich zum Standard)

- Alle Einbauteile ausbaubar
- Bodenpaneel als Wanne in geneigter Ausführung gefertigt
- Paneelstöße innen mit dauerelastischer, fungizider, gegen alle bisher bekannten Desinfektionsmittel resistenter Dichtmasse fugenlos und dampfdicht ausgekittet
- Konstruiert nach DIN 1946-4

ATEX

Gemäß Richtlinie 94/9 EG / ATEX 100a

Struktur autoportante, senza telaio, con pannelli modulari, telaio base in acciaio zincato integrato nell'unità e profilato in alluminio sui lati superiori. Assenza di sporgenze all'interno e all'esterno. Pannello a doppia parete con isolamento in lana di vetro di spessore 50 mm fissato tra le pareti che garantisce un elevato isolamento termico ed acustico. La lana di vetro è conforme alle norme antiincendio ISO 1182.2 classe 0 e DIN 4102- A1.

Sui lati frontali dei pannelli interni sono centrati dei fori a distanza di 152,5 mm, attraverso i quali i singoli pannelli sono collegati. Il pannello interno viene fornito di una doppia piega sulla parte esterna per aumentare la stabilità della struttura e per facilitare il montaggio del pannello esterno.

Inoltre gli strati di lamiera che si sovrappongono sugli angoli vengono microsaldati a pressione. Un rapido montaggio e smontaggio della parete esterna si ottiene attraverso il sistema di assemblaggio internazionalmente brevettato "snap-in" con un profilo speciale sulla parte interna dei pannelli esterni.

Le centrali di trattamento aria sono equipaggiate con porte d'ispezione e/o. Manutenzione di grandi dimensioni necessari in esecuzione approssimativamente come il pannello. Tali portine sono previste per le sezioni ventilatore, filtri ed umidificatori. Il telaio è in alluminio, cerniere regolabili, guarnizione in gomma saldata sugli angoli, chiusure di sicurezza. Le portine d'ispezione asportabili hanno le chiusure di sicurezza brevettate che sono previsti per prefiltri e telai antigelo e si può avere su richiesta anche per altre sezioni.

L'esecuzione è come il pannello, il telaio in alluminio e guarnizione in gomma. Pannelli svitabili sono previsti per la sezione della batteria elettrica e su richiesta anche su altre sezioni. L'esecuzione è come il pannello dell'unità, il telaio in alluminio e guarnizione in gomma.

Caratteristiche della carpenteria certificate secondo EN 1886:

- Resistenza della struttura: classe D1
- Perdite della struttura -400 Pa: classe L1
- Perdite della struttura +700 Pa: classe L1
- Perdite per bypass filtri: classe F9
- Isolamento in fibra di vetro antiinfiammabile di spessore 50 mm
- Dati di prestazione certificati secondo DIN EN 13052
- Scambiatori di calore certificati secondo EUROVENT Rating Std. 6/C/005/2009
- Profilati per telaio base in acciaio zincato o in profili d'acciaio con zincatura a caldo o verniciatura per macchine grandi

Esecuzione pannelli „Standard“

- Pannello interno: 1,0 mm acciaio zincato
- Pannello esterno: 0,7 mm acciaio zincato con ulteriore plastofilmatura 130 µm in materiale anti-graffio e antiacido A47SME, colore bianco
- Trasmittanza termica: classe T3
- Fattore ponte termico: classe TB2
- Abbattimento acustico R_w (DIN 52210-03): 36 dB
- Isolamento acustico del pannello certificato secondo EN 1886 e EN ISO 3744:

Freq. Hz	125	250	500	1000	2000	4000	8000
Okt. dB	17	27	31	32	34	37	42

- Coefficiente di trasmissione termica calcolato $U = 0,59 \text{ W/m}^2\text{K}$

Esecuzione pannelli „Industriale“

- Pannello interno: 1,5 mm acciaio zincato
- Pannello esterno: 1,0 mm acciaio zincato con ulteriore plastofilmatura 130 µm in materiale anti-graffio e antiacido A47SME, colore bianco
- Trasmittanza termica: classe T3
- Fattore ponte termico: classe TB2
- Abbattimento acustico R_w (secondo DIN 52210-03): 41 dB
- Abbattimento acustico del pannello certificato secondo EN 1886 e EN ISO 3744:

Freq. Hz	125	250	500	1000	2000	4000	8000
Okt. dB	19	29	31	30	32	36	34

Materiali speciali

- Acciaio INOX
- Alluminio
- Verniciatura Epoxy
- Verniciatura a polvere

Esecuzione „Esterno“ (in aggiunta allo standard)

- Tetto con scossalina
- Siliconatura dei pannelli e delle portine d'ispezione

Esecuzione „Igiene“ (in aggiunta allo standard)

- Tutti i componenti estraibili
- Pannello di fondo in forma di vasca inclinata
- Sigillatura intercapedini tra i pannelli interni con materiale resistente ai disinfettanti fino ad oggi conosciuti
- Costruito secondo DIN 1946-4

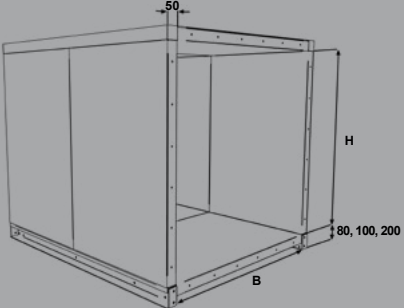
ATEX

Secondo norma 94/9EG / ATEX 100a

TECHNICAL DATA

technische daten

dati tecnici

	Width / Breite / Larghezza	B	Height / Höhe / altezza	H	Coil face velocity Anströmgeschwindigkeit auf Wärmetauscher Velocità frontalesulla batteria							
m / s												
ZHK												
Type					2	2,5	2,75	3	3,5	4		
6/3	610	305	950	1.188	1.307	1.426	1.663	1.901				
6/4,5	610	457,5	1.331	1.663	1.830	1.996	2.328	2.661				
6/6	610	610	1.711	2.138	2.352	2.566	2.994	3.421				
9/4,5	915	457,5	2.208	2.759	3.035	3.311	3.863	4.415				
9/6	915	610	2.838	3.548	3.903	4.257	4.967	5.676				
12/6	1220	610	3.966	4.957	5.453	5.949	6.940	7.932				
9/9	915	915	4.324	5.405	5.946	6.486	7.568	8.649				
12/9	1220	915	6.169	7.711	8.482	9.253	10.796	12.338				
15/6	1525	610	6.698	8.372	9.209	10.047	11.721	13.396				
15/9	1525	915	7.923	9.904	10.894	11.884	13.865	15.846				
12/12	1220	1220	8.249	10.311	11.342	12.374	14.436	16.498				
18/9	1830	915	9.495	11.869	13.056	14.243	16.617	18.991				
15/12	1525	1220	10.752	13.441	14.785	16.129	18.817	21.505				
18/12	1830	1220	12.887	16.108	17.719	19.330	22.551	25.773				
15/15	1525	1525	13.375	16.718	18.390	20.062	23.406	26.749				
21/12	2135	1220	15.390	19.238	21.161	23.085	26.933	30.780				
18/15	1830	1525	16.537	20.671	22.738	24.805	28.940	33.074				
24/12	2440	1220	17.893	22.367	24.603	26.840	31.314	35.787				
21/15	2135	1525	19.440	24.300	26.730	29.160	34.020	38.880				
18/18	1830	1830	19.669	24.586	27.045	29.503	34.421	39.338				
24/15	2440	1525	22.602	28.253	31.078	33.903	39.554	45.204				
21/18	2135	1830	23.490	29.363	32.299	35.235	41.108	46.980				
24/18	2440	1830	27.311	34.139	37.553	40.967	47.794	54.622				
21/21	2135	2135	27.540	34.425	37.868	41.310	48.195	55.080				
27/18	2745	1830	31.132	38.915	42.807	46.698	54.481	62.264				
24/21	2440	2135	32.020	40.025	44.027	48.030	56.035	64.040				
30/18	3050	1830	34.953	43.691	48.061	52.430	61.168	69.906				
27/21	2745	2135	36.500	45.625	50.187	54.750	63.874	72.999				
24/24	2440	2440	36.197	45.247	49.771	54.296	63.345	72.395				
33/18	3355	1830	38.712	48.389	53.228	58.067	67.745	77.423				
30/21	3050	2135	40.980	51.224	56.347	61.469	71.714	81.959				
27/24	2745	2440	40.794	50.992	56.091	61.191	71.389	81.588				
36/18	3660	1830	42.595	53.244	58.568	63.893	74.542	85.190				
33/21	3355	2135	45.386	56.732	62.406	68.079	79.425	90.772				
30/24	3050	2440	45.801	57.251	62.976	68.701	80.151	91.601				
36/21	3660	2135	49.939	62.424	68.666	74.909	87.394	99.878				
33/24	3355	2440	50.725	63.407	69.747	76.088	88.770	101.451				
39/21	3965	2135	54.346	67.932	74.725	81.518	95.105	108.691				
36/24	3660	2440	55.814	69.768	76.745	83.722	97.675	111.629				
42/21	4270	2135	55.296	69.120	76.032	82.944	96.768	110.592				
39/24	3965	2440	60.739	75.924	83.516	91.109	106.294	121.478				
45/21	4575	2135	59.443	74.304	81.734	89.165	104.026	118.886				
42/24	4270	2440	65.664	82.080	90.288	98.496	114.912	131.328				
45/24	4575	2440	70.589	88.236	97.060	105.883	123.530	141.178				
42/27	4270	2745	72.576	90.720	99.792	108.864	127.008	145.152				
48/24	4880	2440	75.514	94.392	103.831	113.270	132.149	151.027				
45/27	4575	2745	78.019	97.524	107.276	117.029	136.534	156.038				
48/27	4880	2745	83.462	104.328	114.761	125.194	146.059	166.925				

Errors excepted we reserve the right of technical modifications relating product improvement without notice.
Irrtum oder technische Änderungen im Rahmen der Produktverbesserung vorbehalten.
Salvo errore ci riserviamo il diritto di modifiche tecniche senza preavviso in seguito al miglioramento del prodotto.

Dimensions can change depending on installed components and complexity of the units.
Die Abmessungen können je nach eingesetzten Komponenten und der Komplexität der Geräte abweichen.
Le dimensioni possono variare a seconda dei componenti installati e la complessità delle unità.

Euroclima group factories

Euroclima AG | SpA
St. Lorenzner Str. | Via S. Lorenzo 36
39031 Bruneck | Brunico (BZ)
ITALY
Tel. +39 0474 570 900
Fax +39 0474 555 300
office@euroclima.it
www.euroclima.com

Euroclima Apparatebau Ges.m.b.H.
Arnbach 88
9920 Sillian
AUSTRIA
Tel. +43 (0) 48 42 66 61 -0
Fax +43 (0) 48 42 66 61 -24
info@euroclima.at
www.euroclima.com

Euroclima Middle East
P.O.Box: 119870
Dubai
UNITED ARAB EMIRATES
Tel. +9714 802 4000
Fax +9714 802 4040
info@euroclima.com
www.euroclima.com

Euroclima India Pvt Ltd.
Office No. 7, Ground Floor,
Building No. 2, Sector 3
Millennium Business Park, Mahape
400 710 Navi Mumbai
INDIA
Tel. +91 22 4015 8934
info@euroclima.in
www.euroclima.com

Bini Clima S.r.l.
Via A. Prato, 4 / A
38068 Rovereto
ITALY
Tel. +39 0464 437 232
Fax +39 0464 437 298
info@biniclima.eu
www.biniclima.eu

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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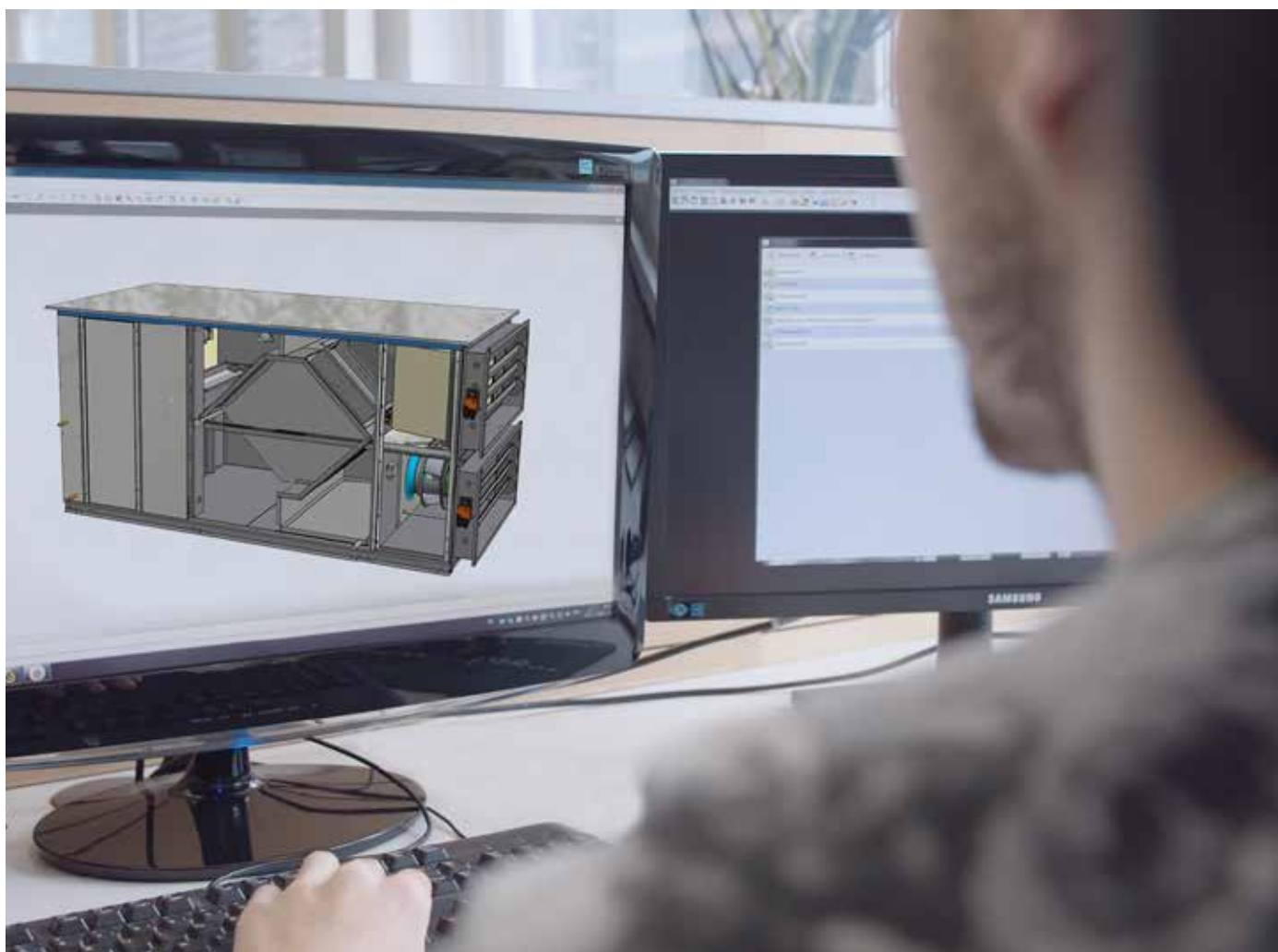
euroclima®
We care for better air

euroclima



ZHK INOVA

CUSTOMIZED AIR HANDLING UNITS
FREI KONFIGURIERBARE KLIMAZENTRALGERÄTE
UNITÀ TRATTAMENTO ARIA PERSONALIZATE



euroclima®
We care for better air

CLEAN AIR SINCE 1963

reine luft seit 1963

aria pulita dal 1963



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 and the use of highly efficient heat recovery systems. Euroclima is an international industrial business working across 5 production sites in Italy, Austria, India and the United Arab Emirates with over 40000 squared metres of production sites. Our core competencies are the production and the worldwide distribution of high-end, fully-developed climate control units and fan convectors.

We strive to exceed our clients' expectations through innovation, quality and a comprehensive service. Euroclima currently employs over 450 permanent members of staff. Furthermore, Euroclima has 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 providing optimal customer service.

Wir entwickeln, produzieren und vermarkten hochwertige Klima- und Lüftungsprodukte für alle Anwendungsbereiche, von der einfachen Komfortanwendung bis hin zu Lösungen im Hygiene- und Prozessluftbereich sowie Anwendungen mit hocheffizienten Wärmerückgewinnungssystemen. Euroclima ist ein international tätiges Industrieunternehmen mit 5 Fertigungsstandorten in Italien, Österreich, Indien und den Vereinigten Arabischen Emiraten mit gesamt fast 40.000 m² Produktionsfläche. Unsere Kernkompetenz ist die Herstellung und der weltweite Vertrieb von qualitativ ausgereiften Klimazentralgeräten und Ventilatorconvektoren.

Wir versuchen die Erwartungen unserer Kunden durch Innovation, Qualität und umfassenden Service zu übertreffen. Euroclima beschäftigt derzeit über 450 festangestellte Mitarbeiter. Weiters hat Euroclima ein breitgestreutes Distributionsnetz mit Verkauf und Serviceneiederlassungen in ganz Europa, Asien, Nahen Osten, Nordafrika und Australien. Die Kooperationspartner in verschiedenen Ländern sorgen für eine flächendeckende Marktbearbeitung und optimale Servicebetreuung.

Sviluppiamo, produciamo e commercializziamo prodotti per la climatizzazione e la ventilazione di alta qualità per tutte le applicazioni, dalle semplici applicazioni di comfort alle soluzioni di aria igienica e di processo, nonché sistemi di recupero di calore ad alta efficienza. Euroclima è un'azienda industriale internazionale con 5 siti di produzione in Italia, Austria, India e Emirati Arabi Uniti con un'area produttiva totale di quasi 40.000 m². La nostra competenza principale è la produzione e la distribuzione in tutto il mondo di unità trattamento aria di alta qualità e unità fan coil.

Cerchiamo di superare le aspettative dei nostri clienti attraverso l'innovazione, la qualità e un servizio completo. Euroclima ha attualmente oltre 450 impiegati fissi. Inoltre, Euroclima ha una rete di distribuzione diversificata con uffici di vendita e assistenza in Europa, Asia, Medio Oriente, Nord Africa e Australia. I partner di cooperazione in vari paesi garantiscono lo sviluppo del mercato su scala nazionale e un supporto ottimale del 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



In term of performances, the more complete certification program is definitively the Eurovent certifications which certify the performances of the components, as part of the units, but also the mechanical characteristics of the housing.

Die angegebenen Gerätedaten werden durch Euroventzertifizierungen garantiert. Dies gilt sowohl für die verwendeten Komponenten, als auch für die mechanischen Eigenschaften des Gehäuses.

In relazione alle prestazioni il programma più completo di certificazione e la certificazione Eurovent la quale certifica le prestazioni dei componenti come parte dell'unità, ma anche le caratteristiche meccaniche della struttura.



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

Unsere Geräte werden auf die Gehäuseeigenschaften nach EN 1886 vom TÜV Süd geprüft.

I nostri dispositivi sono stati testati sulle proprietà abitative secondo EN 1886 dal 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 ONORM 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.

Für medizinische und andere hygienische Anwendungen, wo eine hohe Luftreinheit unerlässlich ist, hat Euroclima entsprechend den sehr anspruchsvollen Vorschriften der VDI 6022, DIN 1946-4, SWKI 99-3, ÖNORM H 6020 oder HTM 03-01 NHS Geräteanpassungen gemacht, um diesen hohen Ansprüchen zu entsprechen. Außerdem können Geräte für explosionsgefährdete Bereiche gebaut werden, die nach den strengen Vorgaben einer außenstehenden Organisation konstruiert und nach den ATEX-Richtlinie 2014/34/EU zertifiziert werden.

Per applicazioni igieniche e ospedaliere, dove è essenziale aria pulita per zone critiche Euroclima ha sviluppato opzioni innovative e uniche per conformarsi alle regolamentazioni restrittive come le VDI 6022, le DIN 1946-4, le SWKI 99-3, le ONORM H 6020 o le HTM 03-01 NHS. Inoltre, unità installate in zone pericolose possono essere certificate da organismi terzi in accordo con le direttive 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.

Die Ökodesign-Richtlinie 2009/125/EG dient der Festlegung von Anforderungen an die umweltgerechte Gestaltung energieverbrauchsrelevanter Produkte (Energy-related Products, ErP). Euroclima Lüftungsgeräte können nach diesen Standards ausgelegt werden.

Il regolamento Europeo EU No. 1253/2014 è l'implementazione dei requisiti per la progettazione ecocompatibile della direttiva Europea 2009/125/CE per le unità di ventilazione non residenziali. Le unità da trattamento aria della Euroclima sono adatte a questi standard.



In addition to the quality management certification ISO 9001:2015, ISO 14001:2015 and BS OHSAS 18001:2007 in place in all of our facilities, 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.

Neben unserer ISO Zertifizierung ISO 9001:2015, ISO 14001:2015 und BS OHSAS 18001:2007 für alle unsere Standorte, fährt Euroclima eine Politik der kontinuierlichen Verbesserung der Verwaltungs- und Fertigungsprozesse um Produkte mit höchster Qualität und Zuverlässigkeit bieten zu können. Da jedes Projekt unterschiedlich ist, jedes Land seine eigenen Gesetze und Vorschriften hat und jedes Gebäude seine eigenen Vorschriften, beteiligt sich Euroclima an einer Reihe von internationalen Zertifizierungsprogrammen, mit dem Hintergrund der Qualität- und Leistungssteigerung, sowie mit Blick auf die Hygieneaspekte und dem Energieverbrauch seiner Produkte.

In aggiunta alle certificazioni di gestione della qualità ISO 9001:2015, ISO 14001:2015 e BS OHSAS 18001:2007 in vigore in tutte le ns. strutture Euroclima ha una politica di miglioramento continuo dei propri processi amministrativi e produttivi per fornire prodotti di alta qualità e affidabilità in grado di soddisfare i ns. clienti. Perché ogni progetto è unico, ogni paese ha le proprie leggi e regolamenti, ogni costruzione dei propri vincoli, Euroclima partecipa ad un numero di programmi di certificazione internazionali relativi alla qualità e alle prestazioni, igiene e consumi energetici.



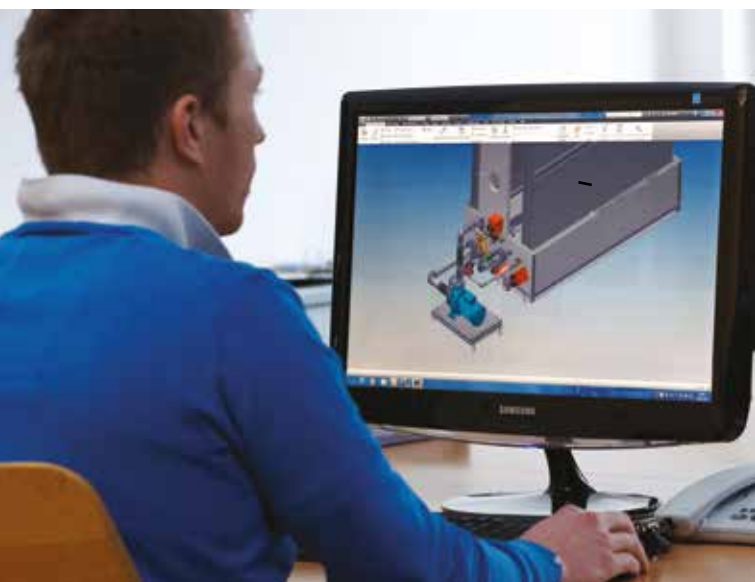
Our units are marked with the CE symbol according to EU-regulation 765/2008. With the CE marking, the manufacturer indicates the conformity of the product with the "basic requirements" to be fulfilled according to the relevant harmonization guidelines.

Unsere Geräte sind mit dem CE-Zeichen gemäß EU-Verordnung 765/2008 gekennzeichnet. Mit der CE-Kennzeichnung zeigt der Hersteller die Konformität des Produktes mit den je nach zutreffender Harmonisierungsrichtlinie zu erfüllenden „Grundlegenden Anforderungen“ an.

Le nostri unità sono etichettate con il marchio CE ai sensi del regolamento UE 765/2008. Con la marcatura CE, il fabbricante indica che il prodotto è conforme con il secondo la direttiva di armonizzazione appropriata da rispettare "requisiti di base" a.

ADVANTAGES WHICH WILL

vorteile die auch morgen noch begeistern



MODULAR CUSTOMIZATION

The **amazing flexibility** of the ZHK INOVA range make it the **best choice** for industrial and process projects: car industry, aerospace halls, textile factories, power stations, research centers... All these kinds of applications require sometimes **higher features** than what is typically needed for comfort and commercial applications.

MODULAR KONFIGURIERBAR

Die **unglaubliche Flexibilität** der ZHK INOVA Geräteserie ist die **beste Wahl** für Projekte in der Industrie- und Prozesstechnik, Automobilindustrie, Hallen für die Luft- und Raumfahrt, Textilfabriken, Kraftwerke, Forschungszentren... Alle diese Anwendungen haben **spezielle Anforderungen** und können nicht durch standardisierte Geräte abgedeckt werden.

MODULARI SU MISURA

L'**incredibile flessibilità** della gamma ZHK INOVA lo rendono **la scelta migliore** per impianti progetti industriali e di processo: l'industria dell'auto, saloni aerospaziali, fabbriche tessili, centrali elettriche, centri di ricerca... Tutti questi tipi di applicazioni richiedono **caratteristiche a volte superiori** a quello che è in genere necessario per il comfort e le applicazioni commerciali.



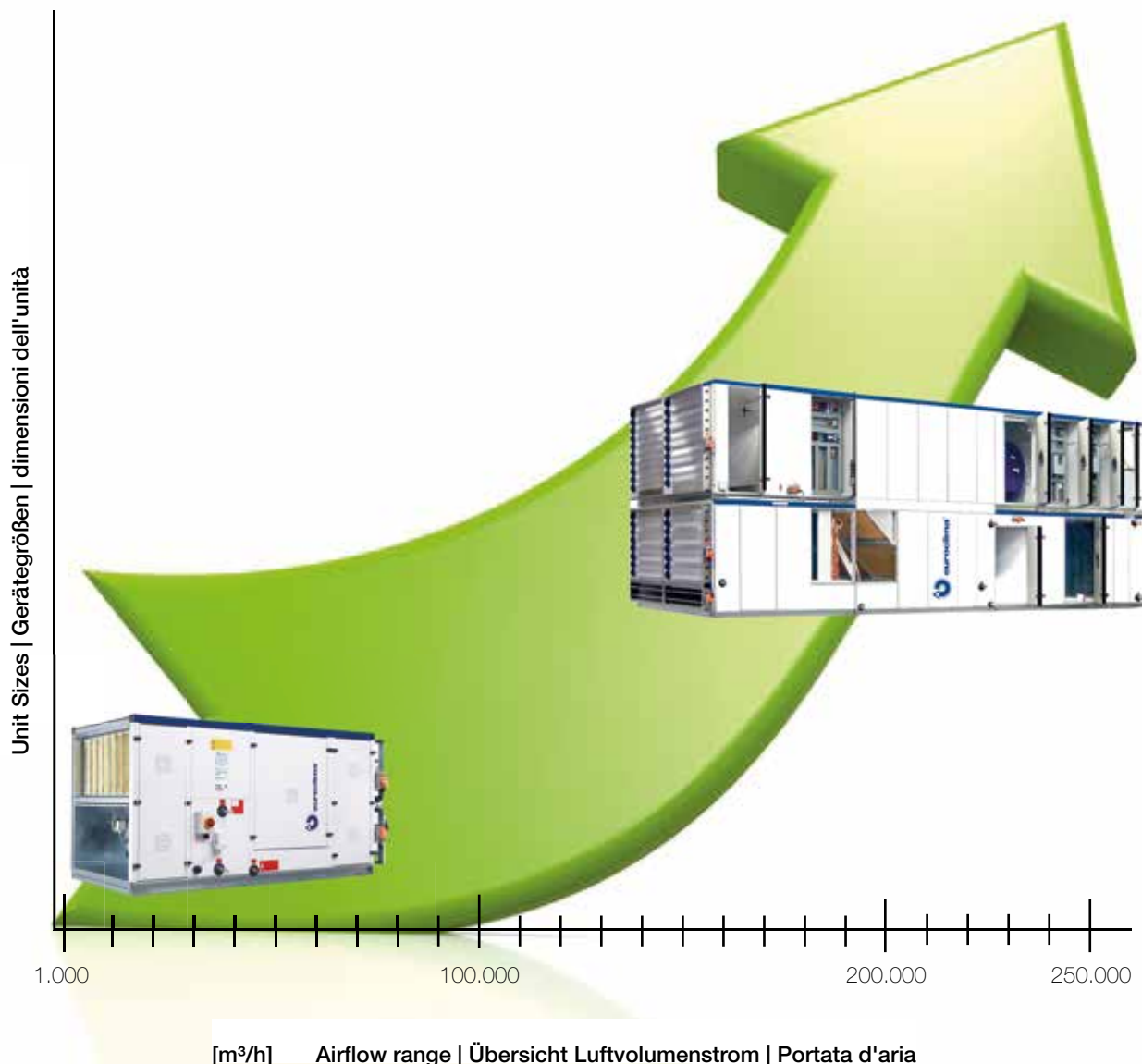
ALSO INSPIRE TOMORROW

vantaggi che ispirano anche domani

We offer **freely configurable device selections** as desired for planning & application. The unit sizes can be easily adapted in sizes and forms to the local situation.

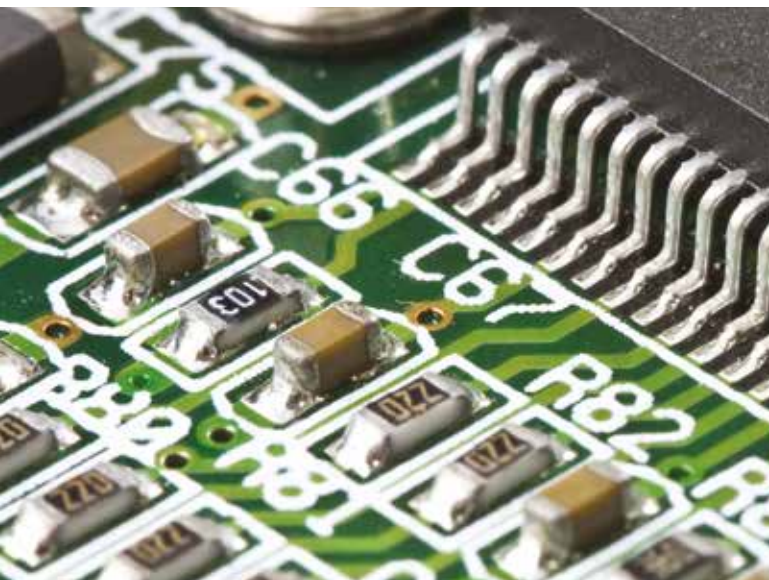
Wir bieten **frei konfigurierbare Gerätesektionen** wie für die Planung & Anwendung gewünscht. Die Gerätegrößen und Formen können perfekt an die Rahmenbedingungen vor Ort angepasst werden.

Offriamo dispositivi **configurabili dall'utente**, come le sezioni per la pianificazione e applicazione desiderata. Le dimensioni delle macchine possono essere perfettamente adattate alle circostanze locali.



COMPLETE

komplettlösungen



CONTROL

The Euroclima air handling unit range is 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
- Climatrix IC Cloud remote access



REGELUNG

Die Euroclima Lüftungsgeräte sind mit werkseitig montierter Regelung erhältlich, inklusive:

- der kompletten Steuerungseinheit
- der Steuerung der Peripheriegeräte
- die Geräte sind durch eine werksinterne Vorinbetriebnahme geprüft worden, was in einer hohen Zuverlässigkeit, Zeiterparnis und störungsfreien Inbetriebnahme für unsere Kunden resultiert
- Climatrix IC Cloud Fernzugriff



REGOLAZIONE

La gamma di unità di trattamento aria Euroclima è disponibile con comandi montati in fabbrica, tra cui:

- il pannello di controllo completo
- le periferiche di controllo
- le unità sono testati e pre-assemblate in fabbrica, che si traducono in un'elevata affidabilità, risparmio di tempo e senza problemi di messa in servizio per i nostri clienti
- Climatrix IC Cloud accesso remoto



Euroclima control - built in, pre-programmed controller
Euroclima Regelung - eingebaute, vorprogrammierte Regler
Euroclima regolazione - sistemi di controllo preprogrammati

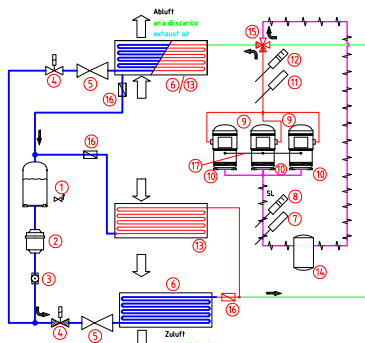
SOLUTIONS

soluzione dettagliate



REFRIGERATION

The Euroclima ZHK INOVA series are available with built in cooling or reversible air cooled systems. The refrigeration systems can be customized with optimized components to reach the highest EERs & COP possible for your specific needs. The integrated air condensers are installed in the exhaust air streams (in cooling mode), which provide very high efficiency and minimized footprint as external condenser are not needed anymore. Our refrigeration systems use the environment friendly R407C and R410A refrigerant.



Euroclima integrated refrigeration
Euroclima integrierte Kältetechnik
Euroclima refrigerazione integrato

KÄLTEANLAGEN

Die Euroclima ZHK INOVA Serie ist mit integrierter Kühlung erhältlich oder reversibler luftgekühlten Kälteanlage. Um die spezifischen Bedürfnisse zu erfüllen und die höchsten EER und COP Werte zu erreichen, können die Kälteanlagen nach Wunsch angepasst werden. Der im Abluftstrom eingebaute Luft-Kondensator ermöglicht im Kühlbetrieb einen sehr hohen Wirkungsgrad und minimiert den Platzbedarf, da kein externes Kondensationsgerät mehr notwendig ist. In unseren Kälteanlagen verwenden wir das umweltfreundliche Kältemittel R407C und R410A.

REFRIGERAZIONE

Le serie Euroclima ZHK INOVA serie sono disponibili con sistemi ad aria di raffreddamento o a ciclo reversibile. I sistemi di refrigerazione possono essere personalizzati con componenti ottimizzati per raggiungere i più alti EERs e COP possibili per le vostre esigenze specifiche. I condensatori ad aria integrati sono installati nel flusso d'aria di espulsione (in modalità di raffreddamento), che offrono rendimenti molto elevati e minimizzano gli ingombri e non necessitano di condensatore esterno. I nostri sistemi di refrigerazione utilizza il refrigerante R407C e R410A ottimo per l'ambiente. Le macchine sono testate in fabbrica prima della spedizione.



SMART DETAILS

clevere detaillösungen



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 device for air volume (analogue or digital)
- Repair switch
- Belt guard protection or grid for inspection door

Ventilatorsektionen

- Radialventilator mit Riementrieb
- Radialventilator mit freilaufendem Rad
- Radialventilator mit freilaufendem Rad und Außenläufermotor
- Luftgekühlter Drehstrommotor nach IEC-Normen einstufig oder zweistufig
- Volumenstrom-Messvorrichtung (analog / digital)
- Reparatur-Schalter
- Riemenschutz bzw. Türschutz-gitter

Sezioni ventilanti

- Ventilatore radiale con trasmissione a cinghia
- Ventilatore radiale a girante libera
- Ventilatore radiale a girante libera con motore esterno
- Motore elettrico secondo norme IEC a una o due polarità; autoventilato
- Sistema di misurazione portata aria (analogico – digitale)
- Sezionatore per manutenzione
- Carter di protezione trasmissione o grata di protezione antiinfortunio



Heater- Cooling section

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

Erhitzer- Kühlersektion

- Erhitzer H2O/ Glycol
- Kondensator
- Dampferhitzer
- Elektroerhitzer
- Kühler H2O/ Glycol
- Direktverdampfer

Sezioni di riscaldamento / raffreddamento

- Batteria ad acqua calda
- Condensatore
- Batteria a vapore
- Batteria elettrica
- Batteria ad acqua fredda
- Batteria ad espansione diretta



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



Befeuchtersektionen

- Dampfbefeuchter
- Elektroden-Dampf-Luftbefeuchter
- Widerstands-Dampf-Luftbefeuchter
- Gas-Dampf-Luftbefeuchter
- Dampf-Luftverteilersysteme für Fremddampf
- Adiabate Befeuchtungssysteme
- Hochdruckbefeuchtung mittels Zerstäubungsdüsen
- Hybrid-Luftbefeuchter
- Luftwäscher
- Kontaktbefeuchtungssysteme
- Ultraschallbefeuchtung

Sezioni di umidificazione

- Umidificatori a vapore
- Produttore vapore elettrico ad elettrodi immersi
- Prod. vap. el. a resistenza immersa
- Prod. vap. con caldaia a combust. gas
- Sistemi di distribuzione vap. di rete
- Sistemi di umidificazione adiabatici
- Umidificazione ad acqua ad alta pressione con ugelli atomizzatori
- Umidificatore ibrido
- Lavatore aria
- Sistemi di umidifica. ad evaporazione
- Umidificazione ad ultrasuoni

Gladly we insert also special components
Wir bauen auch Sonderkomponenten ein
Inoltre possiamo inserire componenti speciali

ED SOLUTIONS

soluzione dettaglio intelligente

Energy recovery section

- Diagonal plate heat exchanger PTD: single or double with efficiency up to 90%
- Heat wheel RT: condensation wheel, enthalpy wheel, sorption wheel
- Run around coil system KV
- Heat pipe
- Energy recovery for special applications with glass tube or stainless steel tube exchanger
- SPC-System
- Accumulator

Energierückgewinnungssektionen

- Diagonal Plattentaucher PTD - einstufig oder zweistufig mit Wirkungsgraden bis 90%
- Rotationstauscher RT: Kondensations-Rotor, Enthalpie-Rotor, Sorptions-Rotor
- Kreislaufverbundsystem KV
- Wärmerohre
- Wärmerückgewinnung für Spezialanwendungen mittels Glasrohr bzw. Edelstahl - Röhrentauscher
- SPC-System
- Akkumulator

Sezioni di recupero energia

- Recuperatore a piastre a flussi incrociati PT: singolo o due in serie con rendimenti fino a 90%
- Recuperatore rotativo RT: Rotore a condensazione; rotore entalpico; deumidificatore rotativo
- Sistema di recupero a batterie collegate a circuito chiuso KV
- Tubi di calore
- Recupero di calore per applicazioni speciali con tubi di vetro o scambiatori in inox
- SPC-System
- Accumulatore



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®

Filtersektionen

- Paneelfilter G2-G4; F5
- V-Bank Filter G2-G4; F5
- Taschenfilter G4-F9
- Kompaktfilter M5-F9
- Absolutfilter H10-H14
- Aktivkohlefilter
- Filter Safe®

Sezioni filtri

- Prefiltri a pannello G2-G4; F5
- Filtri a banco a "V" G2-G4; F5
- Filtri a tasche G4-F9
- Filtri compatti M5-F9
- Filtri assoluti H10-H14
- Filtri a carboni attivi
- Filter Safe®



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

Schalt- und Regeleinrichtung

- Klemmen für Hauptanspeisung bzw. baueitige Komponenten
- Hauptschalter für die Abschaltung der Geräteleitung
- Sicherungen bzw. Überlastungsschutz
- Programmierbare Steuerung und Regelung mit Grafik Display und Einknopfbedienung
- Programmier-Schnittstelle PGU
- Hand-/Notbedienebene
- Climatix IC Cloud Fernzugriff

Quadro di comando e regolazione

- Già previsti i morsetti per l'alimentazione principale e per i componenti a cura dell'installatore
- Sezionatore principale per ciascun componente della regolazione
- Dispositivi di protezione
- Il dispositivo di controllo è programmabile attraverso azionamento ad un tasto con display grafico
- Interfaccia PGU
- Azionamento d'emergenza manuale
- Climatix IC Cloud accesso remoto



Silencer sections

- Attenuation at 250 Hz from 14 to 40 dB depending on splitter length
- Sound attenuation off splitters, Data referring to ISO 7235 / DIN 45646, Splitter-type 105 R+F, Splitter with 230 mm, Relative section 1m³, Nominal length in mm: 610, 915, 1220, 1525, 1830, 2135

Schalldämpfersektionen

- Dämpfung bei 250Hz je nach Länge von 14 bis 40dB
- Einfügungsdämpfung von Schalldämpfern, Angaben bezogen auf ISO 7235 / DIN 45646, Kulissen-typ S105 R+F, Kulissenstärke 230 mm, Bezugsfläche 1m³, Nennlänge in mm: 610, 915, 1220, 1525, 1830, 2135

Sezione silenziatore

- Attenuazione alla banda d'ottava 250Hz da 14 a 40 dB in funzione della lunghezza delle culisse
- Abbattimento del rumore attraverso i silenziatori secondo ISO 735 / DIN 45646, Culissa tipo R+F, larghezza 230 mm, area di riferimento 1m³, lunghezza nominale (mm) 610, 915, 1220, 1525, 1830, 2135



TECHNICAL

anlagebeschreibung



Technical specification ZHK INOVA

Self-supporting, frameless, modular panel construction with integrated base frame made of galvanized steel and continuous aluminium profiles on the upper edge. Double skin panels, 50 mm thick, made of inner lid and removable outer lid, thermally separated by PVC interlocking profiles. Insulation made of non-combustible mineral wool (fire protection class 0 according to ISO II 82.2 and A1 according to DIN 4102) optimally for sound absorption and thermal insulation. Standard density 20 kg/m³. Optionally, different insulations with densities up to 150 kg/m³ are possible. In the standard version, the inner panels sheets are made of 1 mm galvanized sheet steel and the outer panel sheets are made of 0,7 mm galvanized sheet steel with additional PVC coating. Optional sheet thicknesses are available between 0,7 and 1,5 mm. To meet the most diverse applications, the casings can be made of galvanized sheets, epoxy coated sheets, 304 stainless steel and 316 stainless steel or aluminium.

Air handling units with large inspection and maintenance doors in panel thickness. The door leaves inside and outside are thermally separated by plastic frame with post extruded PVC soft seal. Optionally, a TPE seal is provided for hygiene requirements. The door frames are made of aluminium in combination with glass fibre reinforced polyamide (PA 25). For the door leaf mounting either 2-fold (3 mm in XY direction) adjustable hinges made of die-cast zinc with black powder-coated textured paint, or clamp PA 6 (polyamide) black with mounting screw are used. The door handles are made of TK1 PA6 black and the door mechanism is zinc die-cast. The materials used meet the requirements of VDI 6022.

Certified data (MB INOVA) conform to EN 1886:

- Casing strength: **class D1**
- Casing air leakage at -400 Pa: **class L1**
- Casing air leakage at +400 Pa: **class L1**
- Filter bypass leakage: **class F9**
- Thermal transmittance: **class T2**
- Thermal bridging factor: **class TB2**
- T2 / TB1 (optional)
- Sound attenuation Rw(DIN 52210-03): 36dB
- Sound attenuation of the panel certified in compliance with 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 in compliance with DIN EN 13053



Technische Beschreibung ZHK INOVA

Selbsttragende, rahmenlose, modulare Paneel Konstruktion mit integriertem Grundrahmen aus verzinktem Stahlblech und durchgehenden Aluminiumprofilen an den Geräteoberkanten. Doppelschaliges Gehäusepaneel, 50 mm stark, bestehend aus Innendeckel und abnehmbarem Außendeckel, thermisch getrennt durch PVC Steckprofile. Geräteisolierung aus nicht brennbarer Mineralwolle (Brand-schutzklasse 0 nach ISO II 82.2 und A1 nach DIN 4102) optimal zur Schall- und Wärmedämmung. Standarddichte 20 kg/m³. Optional sind verschiedene Isolierungen mit Dichten bis zu 150 kg/m³ möglich. In der Standardausführung werden die Innendeckel aus 1 mm verzinktem Stahlblech und die Außendeckel aus 0,7 mm verzinktem Stahlblech mit zusätzlicher PVC Beschichtung gefertigt. Optionale Blechstärken sind zwischen 0,7 und 1,5 mm erhältlich. Um den verschiedensten Anwendungsfällen gerecht zu werden, können die Geräte aus verzinkten Blechen, Epoxid beschichteten Blechen, Edelstahl 304 und Edelstahl 316 oder Aluminium gefertigt werden.

Lüftungsgeräte mit großflächigen Inspektions- und Wartungstüren in Paneelstärke. Die Türblätter Innen- und Außenseite sind durch Kunststoffrahmen mit postextrudierter PVC Softdichtung thermisch getrennt. Optional ist eine TPE Dichtung für Hygieneanforderungen vorgesehen. Die Türrahmen sind aus Aluminium in Verbund mit Glasfaser verstärktem Polyamid (PA 25) gefertigt. Für die Türblätterbefestigung werden entweder 2-fach (3 mm in XY Richtung) verstellbare Scharniere aus Zinkdruckguss mit schwarzem pulverbeschichteten Strukturlack oder Klemmbügel aus PA 6 (Polyamid) schwarz mit Befestigungsschraube, verwendet. Die Türgriffe sind aus TK1 PA6 schwarz gefertigt und die Türbetätigung ist aus Zinkdruckguss. Die verwendeten Materialien entsprechen der Anforderung der VDI 6022.

Gehäusedaten (MB INOVA) nach EN 1886 zertifiziert:

- Mechanische Gehäusefestigkeit: **Klasse D1**
- Gehäuseleckage bei -400 Pa: **Klasse L1**
- Gehäuseleckage bei +400 Pa: **Klasse L1**
- Filter-Bypassleakage: **Klasse F9**
- Wärmedurchgang: **Klasse T2**
- Wärmebrückenfaktor: **Klasse TB2**
- T2 / TB1 (optional)
- Schalldämm-Maß Rw(DIN52210-03): 36dB
- Schalldämmung des Paneels zertifiziert nach EN 1886 und EN ISO 3744:

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

- Leistungsdaten zertifiziert nach DIN EN 13053

SPECIFICATION

specifica tecnica

■ ■ Specifica tecnica ZHK INOVA

Sondermaterialien

- Edelstahl AISI 304/AISI 316
- Peraluman
- Epoxy-Lackierung
- Pulverbeschichtung

Ausführung „Wetterfest“

- Wetterfestes Dach mit Tropfnase
- Eindichtung der Paneele und großflächige wasserdichte Bedienungstüren

Ausführung Hygiene (zusätzlich zum Standard)

- Alle Einbauteile ausbaubar
- Bodenpaneel als Wanne in geneigter Ausführung gefertigt
- Paneelstöße innen mit dauerelastischer, fungizider, gegen alle bisher bekannten Desinfektionsmittel resistenter Dichtmasse fugenlos und dampfdicht ausgekittet
- Konstruiert nach DIN 1946-4 / VDI6022 / SWKI / ÖNORM...

ATEX

Gemäß ATEX Richtlinie 2014/34 EU.

Struttura autoportante con pannelli modulari, telaio base in acciaio zincato integrato nell'unità e profilato in alluminio sui lati superiori. Pannello a doppia parete, spessore 50 mm, costituito da pannello interno e pannello esterno rimovibile, separato termicamente da profili plug-in in PVC. Isolamento in lana minerale non infiammabile (classe di protezione antincendio 0 secondo ISO II 82.2 e A1 secondo DIN 4102) ottimale per isolamento acustico e termico. Densità standard 20 kg/m³. Opzionalmente, sono possibili diversi isolamenti con densità fino a 150 kg/m³. Nell'esecuzione standard i pannelli interni sono realizzati in lamiera d'acciaio zincato da 1 mm e i pannelli esterni sono realizzati in lamiera d'acciaio zincato da 0,7 mm con rivestimento in PVC aggiuntivo. Sono disponibili spessori lamiera opzionali tra 0,7 e 1,5 mm. Per soddisfare una vasta gamma di applicazioni, le unità possono essere realizzate in lamiera d'acciaio zincato, lamiera con verniciatura Epoxy, acciaio INOX AISI 304 e acciaio INOX AISI 316 o alluminio.

Unità di trattamento aria con porte di ispezione e manutenzione di grandi dimensioni in stesso spessore del pannello. Le ante delle porte interne ed esterne sono separate termicamente da un telaio in plastica con guarnizione morbida in PVC estruso. Opzionalmente, viene fornito un sigillo TPE per i requisiti di igiene. I telai delle porte sono realizzati in alluminio in combinazione con poliammide rinforzato con fibra di vetro (PA 25). Per il montaggio delle ante vengono utilizzate cerniere regolabili a 2 pieghe (3 mm in direzione XY) in zinco pressofuso con vernice nera a polvere, oppure un morsetto PA 6 (poliammide) nero con vite di montaggio. Le maniglie delle porte sono realizzate in TK1 PA6 nero e il meccanismo è in zinco pressofuso. I materiali utilizzati soddisfano i requisiti di VDI 6022.

Dati carpenteria (MB INOVA) certificate secondo EN 1886:

- Resistenza della struttura: **classe D1**
- Perdite della struttura -400Pa: **classe L1**
- Perdite della struttura +400Pa: **classe L1**
- Perdite per bypass filtri: **classe F9**
- Trasmittanza termica: **classe T2**
- Fattore ponte termico: **classe TB2**
T2 / TB1 (opzionale)
- Abbattimento acustico Rw (secondo DIN 52210-03): 36 dB
- Isolamento acustico del pannello certificato secondo EN 1886 e EN ISO 3744:

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

- Dati di prestazione certificati secondo DIN EN 13053

Materiali speciali

- Acciaio INOX AISI 304/AISI 316
- Alluminio
- Verniciatura Epoxy
- Verniciatura a polvere

Esecuzione „Esterno“ (in aggiunta allo standard)

- Tetto con scossalina
- Siliconatura dei pannelli e delle portine d'ispezione

Esecuzione „Igiene“ (in aggiunta allo standard)

- Tutti i componenti estraibili
- Pannello di fondo in forma di vasca inclinata
- Sigillatura intercapedini tra i pannelli interni con materiale resistente ai disinfettanti fino ad oggi conosciuti
- Costruito secondo DIN 1946-4 / VDI6022 / SWKI / ÖNORM...

ATEX

Secondo norma ATEX 2014/34 EU.

REFERENCES

referenzen referenze



Jaber Al Ahmed Al Jaber Al Sabah Hospital - KUWAIT



Shamiya Expansion - Holy Haram Mosque Mekkah - SAUDI ARABIA



Cruisers, Ferries, Yachts, Tanks - WORLDWIDE



Parco Della Muscia - ITALY



Hilti Innovation Center - LIECHTENSTEIN



Infineon - GERMANY

Euroclima group factories

Euroclima AG | SpA
St. Lorenzner Str. | Via S. Lorenzo 36
39031 Bruneck | Brunico (BZ)
ITALY
Tel. +39 0474 570 900
Fax +39 0474 555 300
info@euroclima.com
www.euroclima.com

Euroclima Apparatebau Ges.m.b.H.
Ambach 88
9920 Sillian
AUSTRIA
Tel. +43 (0) 48 42 66 61 -0
Fax +43 (0) 48 42 66 61 -24
info@euroclima.at
www.euroclima.com

Euroclima Middle East
P.O.Box: 119870
Dubai
UNITED ARAB EMIRATES
Tel. +9714 802 4000
Fax +9714 802 4040
eumeinfo@euroclima.com
www.euroclima.com

Euroclima India Pvt Ltd.
Office No. 501/505
Topical New Era Business Park,
Opp. ESIC Kamgar Hospital
Road No. 33
400 604 Maharashtra
INDIA
Tel. +91 22 4015 8934
info@euroclima.in
www.euroclima.com

Bini Clima S.r.l.
Via A. Prato, 4 / A
38068 Rovereto
ITALY
Tel. +39 0464 437 232
Fax +39 0464 437 298
info@biniclima.eu
www.biniclima.eu

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