



oceania  
SOLUTIONS GROUP

# Air Handling Units

Product Profile



euroclima®



## **Your projects, challenges and requirements are our focus. We have a dedicated team that can engineer tailored solutions for your commercial HVAC application.**

*Oceania Solutions Group is an Australian owned business that focuses on providing engineered HVAC solutions. We value the importance of relationships with our clients and partners. Our team enjoy collaborating and solving complex 'design and construct' projects for your business with our product solutions.*

Oceania Solutions Group are proud of our extensive portfolio and experience within HVAC industry. From industrial applications through to commercial air conditioning installations for tropical and high humidity environments.

Operating throughout Australia, New Zealand and the South Pacific Islands, we provide engineered technical data and commercial support for a wide range of HVAC solutions.

Our experienced team of HVAC professionals work hand-in-hand with market leading suppliers of HVAC solutions and equipment.

With international accreditation from Eurovent, CTI, AHRI, TÜV and AMCA, our products are rigorously tested and certified, meeting Australian and New Zealand standards and regulations.

Partnering with trusted international suppliers, we are available to provide an engineered solution for your next project.



# Your best partner for air handling units

*Since 1963, Euroclima has been a leader in customised air conditioning and ventilation systems. Our partners develop, manufacture and commercialise high quality air handling products for all applications, from basic comfort to healthcare, process air and installations with highly efficient heat recovery systems.*

Euroclima is a company with extensive international operations and five manufacturing facilities in Italy, Austria, India and UAE, with more than 36,000m<sup>2</sup> of production and offices. They are specialists in the manufacturing and worldwide distribution of air handling units and fan coil units.

Approximately 400 employees are presently employed with a well distributed network of sales and service all over Europe, Asia, Middle East and Northern Africa.

## A fully certified system

*Euroclima are a part of a number of international certification programs, related to quality, performance, hygiene or energy consumption.*



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



ISO 9001:2015	No. 03578/0
ISO 14001:2204	No. 02301/0
BS OHSAS 18001:2007	No. 00559/0



It certifies that every unit leaving our production lines is built in accordance with the standards required by the European Union.



**CERTIFIED PRESSURE EQUIPMENT MANUFACTURER**

TÜV AUSTRIA SERVICES GMBH



Ventilation and Air-Conditioning technology

- ✓ VDI 6022 (07/2011)
- ✓ DIN 1946-4 (12/2008)
- ✓ SWKI VA104-01 (04/2006)
- ✓ ONORM H 6021 (09/2003)
- ✓ ONORM H 6020 (02/2007)

Validity Period: 2012 - 2017



# Customised Solutions

## Customised Units Designer

AirCalc++, the Euroclima selection program is the result of years of experience in designing and optimising customised air handling units. The performances provided by this software are Eurovent certified.

It allows selection of all possible configurations, components or options to reach exact project requirements. Detailed data sheets, in ducts and radiated sound levels, Autocad format drawings, product specifications, psychometric charts, fan curves, SFPs and energy classes can be viewed and printed from the AirCalc++ software.



Eurovent certified software



Unmatched flexibility



Precise data sheets



DWG/DXF drawings edition



Fan curves, mollier chart and acoustic data

## 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 offers the highest flexibility available in the marketplace:

- Any possible unit configuration
- Any type of components available on the market
- Anti-corrosion protections, including galvanised 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

## Casing Characteristics

- 50mm thick double skin panels
- Standard casing: metal sheet 0,7/1,0 mm
- Industrial casing: metal sheet 1,0/1,5 mm
- Incombustible insulation, glass fibre or rock wool, from 20 to 150kg/m<sup>3</sup>
- 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 200mm
- Certified data of AHU casing as per EN 1886:
  - D1/L1/F9/T2/TB2 (INOVA Standard)
  - D1/L1/F9/T2/TB1 (INOVA Optional)
  - D1/L1/F9/T2/TB1 (INOVA Industrial)
  - D1/L1/F9/T1/TB1 (INOVA 100mm panel)
  - D1/L1/F9/T2/TB2 (ZHK2000 Standard)



Thermal break in doors and panels



Unlimited flexibility



High built quality and reliability



Hygienic design



High efficiency



Certified performances

## Medical solutions

The precision and the reliability of the HVAC equipment in operating theaters and other critical rooms in hospitals remain unmatched in any other sector. The CleanLine series has been developed to meet these requirements. The CleanLine is used to optimise the indoor air temperature, the humidity level, and the ventilation to your individual settings in order to fulfill the strict medical and hospital conditions. A further emphasis is also placed on optimised energy consumption through the use of a sophisticated integrated heat pump system controlled by an advanced control system. The CleanLine range is available with five unit sizes from 1,000 to 9,500 m<sup>3</sup>/h.



## Customised solutions INOVA and ZHK 2000

The innovative casing construction of the INOVA and ZHK 2000 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 marketplace:

- Any possible unit configuration
- Any type of components available on the market
- Anti-corrosion protections, including galvanized steel, 130µm 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



## Adiabatic cooling solutions

The air conditioning equipment is one of the most important elements in data centres which require systems operating continuously 365 days a year, with high reliability, low running costs, easy maintenance, emergency management and interconnectivity.

In addition to the INOVA range, which can be offered for customised solutions, Euroclima has developed the ETA PAC, a reliable and packaged unit equipped with double plate heat exchangers and indirect adiabatic cooling system. High efficiency filters, factory mounted control and an integrated heat pump make this range the best choice for data centres, computer and LAN rooms, telecommunication rooms and laboratories. This range incorporates air volumes from 1,000 to 30,000 m<sup>3</sup>/h.





## Food Industry (FI) solutions

*In commercial food processing, hygiene is a must. Bacterial contaminants in air-conditioning units can spread through air ducts resulting in immensely high expenditures. Using powerful cleansing agents and disinfectants can also be problematic, or even prohibited, due to the chemical and thermal sensitivity of many fermenting and other technical food processes.*

Ideal temperature and humidity levels necessary for processes can create an unhygienic environment that breeds germs in 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 ZHK FI has been designed specifically to overcome these issues in the food industry and processing plants. Featuring a 70mm thick triple skin casing, fully welded in stainless steel, with rounded corners to allow for regular high pressure washing and the simplest method for cleaning the inside of the unit and its components.



### **AEPSIS cold bridge design for food and low temperature applications**

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 AEPSIS 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 50.000m<sup>3</sup>/h.



### **ETA POOL solutions**

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 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 5.200m<sup>3</sup>/h and
- ETA POOL OLYMPIC for medium sized and large indoor swimming pools from 6.000 to 37.000m<sup>3</sup>/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.

# More Quality Units From The Euroclima Family

## Ducted double skin FCU (TH-DS)

Our double skin self-supporting units are the optimal solution for limited space, mainly used for installation in the false ceiling.

Thanks to the double skin construction (23 mm sound absorbing rock wool insulation with 20 kg/m<sup>3</sup>) the unit can handle high static pressure drops with reduced noise values. Features include:

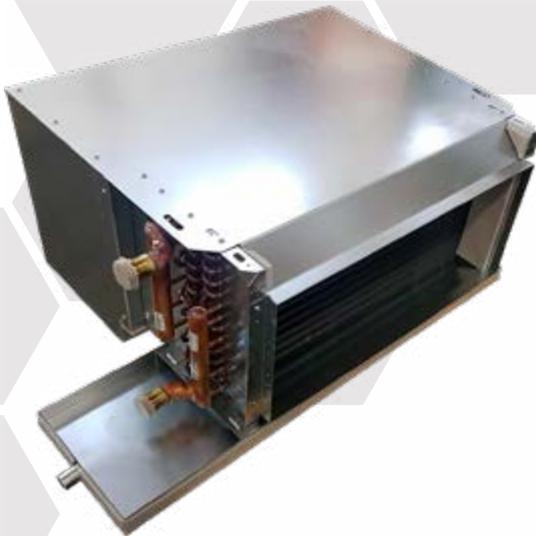
- 25 mm standard panel with rock wool (20 kg/m<sup>3</sup>)
- Rear intake and horizontal discharge
- Easily removable G3 (MERV 5) filter 2 or 4 pipe systems
- Coil with 4, 5, 4+1 or 5+1 rows
- Drain pan insulated 5mm
- Auxiliary drain pan insulated 5 mm (on request)
- Available in AC and EC motor



## Ducted single skin FCU (TB)

Our ducted units are the optimal solution for limited space mainly used for installation in the false ceiling. The design of the units and the optimally selected fans guarantee quiet operation even at high external static pressure. The units can be vertical or horizontal. Features include:

- Bottom intake and vertical discharge
- Easily removable G3 (MERV 5) filter
- 2 or 4 pipe systems
- Coil with 4, 5, 4+1 or 5+1 rows
- Drain pan insulated 5 mm
- Auxiliary drain pan insulated 5 mm (on request)
- Available in AC and EC motor



## High wall units (HW)

Our HW unit is the optimal solution for wall mounting in hotels, apartments and offices or summer cooling and winter heating. Features include:

- 3 speed fan with included IR remote control
- 2 pipe systems
- Coil with 2 rows
- Signalling LED
- Removable, regenerable and washable filter
- Auxiliary external or recessed drain pan (on request)
- 2 or 3 way + bypass valves



## Cassettes (CT)

The innovative design of our cassettes grants high performance with low sound. It is the perfect unit if the design comes first, as it will match any surroundings or decor. The highly efficient fan and the adjustable blades grant a perfect air distribution. The dimensions of the cassette allow a quick and easy installation. A wide range of models and huge availability of accessories make these cassettes adaptable for any request.

### Features include:

- Condensing pump, non-return valve and float included
- Easily removable and washable filter
- 2 or 4 pipe systems
- Coil with 2, 3 or 2+1 rows
- AC-motor (CT) and EC-motor (CT-EC)
- Remote IR control or wall thermostat (on request)
- Fins adjustable with remote control
- Electric element and safety contactor (on request)
- Fresh and adjacent room air spigot (on request)
- Panel in ABS



## Under Floor Trench Style FCUs

Our underfloor units with their special design are the optimal solution for floor mounting installations in hotels, offices, airports, museums, etc. Low noise, clean air (air filtration), effective air exchange (available with external air intake or in combination with centralised air handling units), design, product quality and long lasting lifetime are the main advantages.

### Features include:

- Tangential fan for low noise level
- By-pass (air curtain) to avoid air recirculation
- Galvanized modular frame
- Black epoxy paint
- Walkable aluminium grille
- Synthetic washable air filter
- 2 or 4 pipe systems
- Coil with 4 or 3+1 rows
- IP55 electric box
- AC-motor (FR & FP) and EC-motor (FR-EC & FP-EC)



## Decorative Units (CKO/CKI)

Our decorative units with their unique design are the optimal solution for room installation in hotels, offices, hospitals, schools etc. Newest technologies, flexibility for special requirements, wide performance range, an effective control system to lower energy consumption, low noise, clean air (air filtration), effective air exchange, design, production quality and long lasting lifetime are the main advantages.

### CKO features:

- Bottom intake or rear intake (on request) and horizontal discharge
- Filter directly mounted on the Alu-intake-grille
- 2 or 4 pipe systems
- Coil with 3, 4 or 3+1 rows
- Drain pan insulated 5 mm
- AC-motor

### CKI features:

- Bottom intake and vertical discharge with Alu-grille
- Easily removable G3 (MERV 2-4) filter
- 2 or 4 pipe systems
- Coil with 3, 4 or 3+1 rows
- Drain pan insulated 5 mm
- AC-motor





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