



**oceania**  
SOLUTIONS GROUP

# ZHK FI

## Hygienic Air Handling Units

Fully washable units for the food and beverage industry



**euroclima**<sup>®</sup>



## 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





# Hygiene in the Food Industry

In large-scale 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 in the food industry can be problematic, or even prohibited. Due to the chemical and thermal sensitivity of many fermenting and other technical food processes, purification procedures in air-conditioning units can be detrimental to processing.

Ideal temperature and humidity levels necessary for many 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 can exceed the investment costs for the air-handling unit.

## The solution

The ZHK FI unit has been designed specifically for the food industry.

## 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

# Technical specification

Technical specification ZHK FI air-conditioning units for use in the food branch, are available in seven sizes for an air volume of 4,000 up to 40,000 m<sup>3</sup>/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 70mm

## Execution

- 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 absorption 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 which 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 so doorway dimensions should be considered.

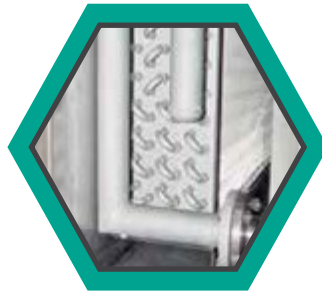
The floor pan drains from the bottom. Accessory legs for the units are available. The floor pan is in the entire unit making a droplet separator unnecessary in most cases.

We reserve the right to technical modifications relating to product improvement without notice.

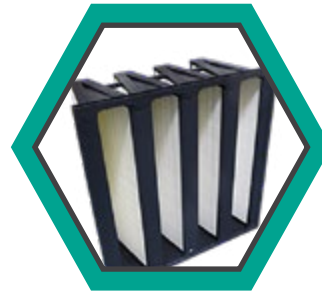
# ZHK FI



Rounded housing edges and corners



Heating/cooling coil



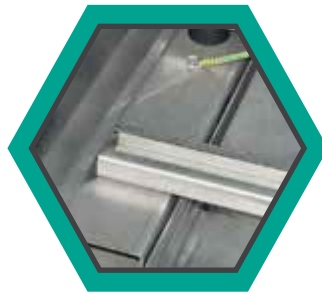
Filter section



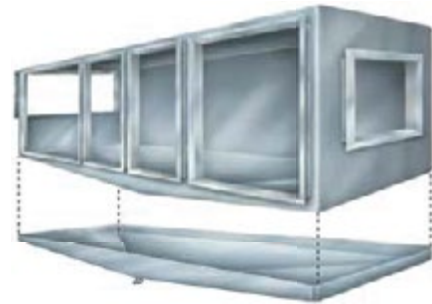
Unit interior consists entirely of a welded tank



Fan motor assembly



Components can be pulled out on sliding rails



Insertion of special components

## Technical data

ZHK FI	Weight	Height	Coil		Air flow m <sup>3</sup> /s coil face velocity				Air flow m <sup>3</sup> /s fan size				
					Type	m	Coil face velocity	"2,0 m <sup>3</sup> /s"	"2,0 m <sup>3</sup> /s"	"2,0 m <sup>3</sup> /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

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