

COMPANY PROFILE



Simplicity is the ultimate sophistication
– Leonardo da Vinci



VTS mission is to become a leading supplier offering AHU for business partners with excellence in simplicity.

VTS Group – a leader in HVAC sector

VTS Group is a leading provider of Air Handling Units for commercial applications, focused on offering innovative products at competitive prices with a quick turn-around.

The strongest recommendations for VTS are our many years of experience and customers around the world.

What has always made us unique keeps us growing still. VTS Group is a global corporation, a trusted brand and a leading supplier of air conditioning units and heating appliances. Where versatility meets experience, progress is born. We combine the pleasure of creativity with perfection, quality and simplicity to create a new dimension of products in the HVAC sector. This goes beyond any ordinary solutions because our work is our passion!

Hanna Siek-Zagórska
CEO VTS Group

Scan QR code and watch
a corporate movie



INTRODUCTION



A global corporation with European origins

VTS is the No. 1 provider of air handling units in Europe and leading provider in the world with established platforms across quickly developing markets of the Gulf States, China and India, a thoughtful mixture of greenfield investments and acquired businesses.

VTS offers streamlined, flexible and innovative AHU with a wide range of applications covering market needs at competitive prices. VTS Group's 3 major product categories include:

Air Handling Units – **VENTUS range**

Air Curtains – **DEFENDER**

Air Heaters – **VOLCANO**



MARKET COVERAGE

VTS Worldwide

A presence in

40
countries

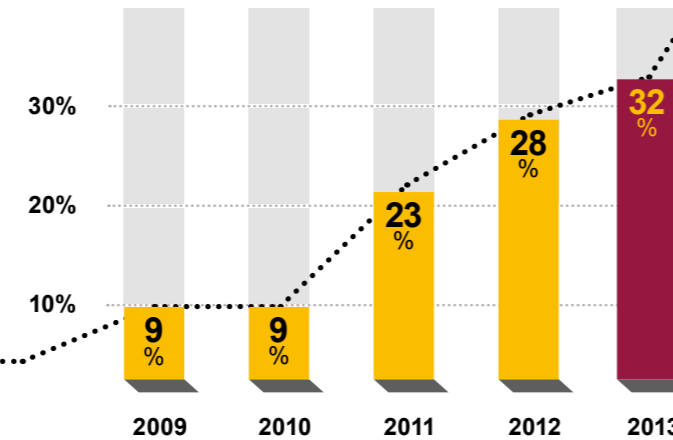
92

representative
offices

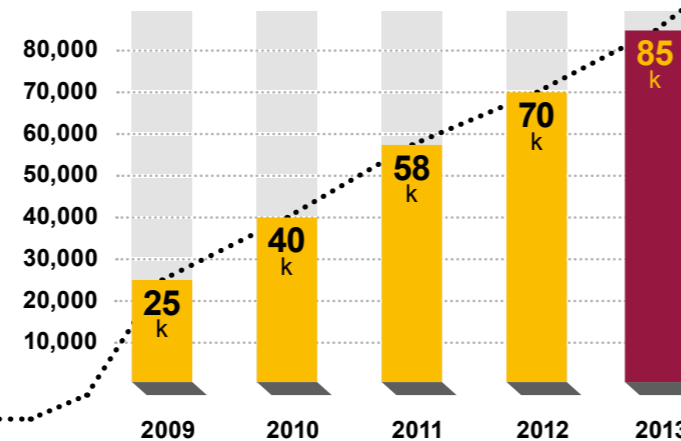
630,000
devices
sold

350
technical sales
consultants

VTS Group dynamic growth
– sales increase in time



VTS Group dynamic growth
– products sales increase in time



Market leader focused on **dynamic long term growth**

Reliable **business partner**



OUR ADVANTAGES



Innovative Technology

Innovative product – flexible and innovative products design with a wide range of applications covering the market.

Technology features include frameless casing, eliminating thermal bridges and composite PLUG fan characterized by increased parameters and reduced costs.

New product options – constant development of new models tailored to specific market needs.



Advanced Supply Chain Management

Storage of components in 5 Production Plants located in Poland, India, UAE, China and the USA, allowing quick delivery of products to final customers.

Ultra short lead time - c.a. 75% of orders are sent within short lead time of 2 weeks.

Long term relationship and cooperation with leading component manufacturers, service companies, retail chains and HVAC dealers from Europe and Asia.

Assembly of AHUs either on client's site by authorized service teams or at Group's assembly hubs.



High Market Coverage & Distribution

High market involvement through presence in 40 countries, extensive network of more than 350 technical sales consultants and utilizing franchises in the Central European market and dealers in the Western part of Europe.

Leading market position in Poland, Russia and other Central European countries and well established companies in the Gulf States, China and India.

No. 1 in Europe

Leading and innovative provider of AHU solutions with proven track record in commercial projects worldwide.

Well-established cooperation with key customers: either global retail merchants, office and industrial building designers or installers and general contractors.



Thousands of satisfied customers around the world
are the best recommendation for VTS

Hotels



Hotel Mariott
Kazakhstan



Everbright China
China



Sheraton Hotel
Russia



Ritz Carlton
United Arab Emirates



Crownie Plaza Hotel
India



Rocco Forte
United Arab Emirates



Leela Palace
India



Aloft Hotel - Abu Dhabi
United Arab Emirates



Four Seasons Hotel
China

Offices



Sky Tower
Poland



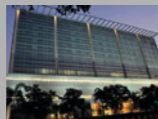
Medina Centrale
Qatar



Siemens
China



Skyview Corporate Park
India



**First International
Financial Centre**
India



Biocon
India



Gazprom
Russia



Canal +
Poland



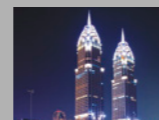
CNC Building
China



Interglobe Technologies
India



Emirates Financial Towers
United Arab Emirates

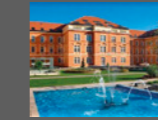


Al Kazim Towers
United Arab Emirates

Commerce and sport buildings



Kazan Arena
Russia



Leier City Center
Hungary



Audi
United Arab Emirates



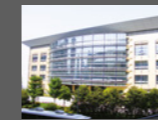
Olympic Stadium
Russia



Cladire birouri BVO
Romania



Al Salam Mall
Kuwait



Yuanshen Sports Centre
China



Olympic Fencing Centre
China



Ikea
China

Public facilities



Moscow National Library
Russia



Parliament
Slovakia



Fundeni Hospital
Romania



Al Ain Cromwell Hospital
United Arab Emirates



Mosque
Kazakhstan



Toyota Lexus
Russia



**Sharjah Museum of Islamic
Civilisation**
United Arab Emirates



DM Medcity
India



Europe Eye Hospital
Romania



Alembic
India



**Shanghai First People's
Hospital**
China



Royal Castle
Poland

The **products** worth **investing in**

VENTUS

made of expectations



Air handling unit is a device designed for various types of buildings whose main functions cover air supply, air exhaust, air filtration, thermal treatment (both heating and cooling) and heat recovery. Additional functions of air handling units include humidifying and/or dehumidifying, air mixing and air circulation control.

Wide performance range

- Building of any capacity - from restaurants, through trading centres to huge Production Plants
- All kinds of buildings - residential, commercial, industrial
- Base air handling units supported by wide range of optional air treatment functions



16 sizes
available

400 m³/h to 100,000 m³/h
capacity ranges

VENTUS sizes

- 10
- 15
- 21
- 30
- 40
- 55
- 75
- 100
- 120
- 150
- 180
- 230
- 300
- 400
- 500
- 650



Innovative FRAMELESS casing
Low vibration, noise and elimination of thermal bridges - high durability polyurethane sandwich panels.

Control systems
providing a simple and clear operation.

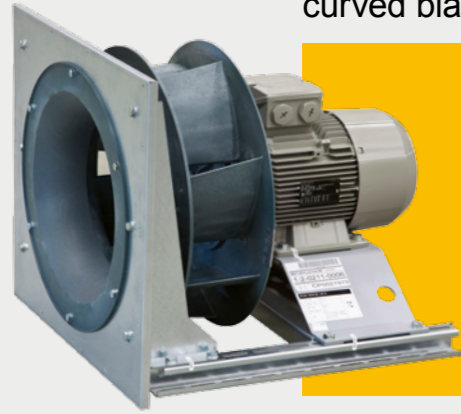
PLUG Fan
Backward curved fan impeller, directly driven by highly efficient electric motor.

Typical applications:

- Schools
- Offices
- Hotels
- Hospitals
- Stores
- Sports facilities



OUR PRODUCTS



High performance direct drive PLUG fans with AEROFOIL design backward curved blades

- Silent operation due to innovative airfoil blades with unique trailing edge shape
- Substantial energy savings
- Smooth performance regulations using VFD technology
- Highly efficient direct drive - elimination of V-belt transmission
- Maintenance-free fan-set
- Flexible direction of power supply flow
- Smooth air flow adjustment

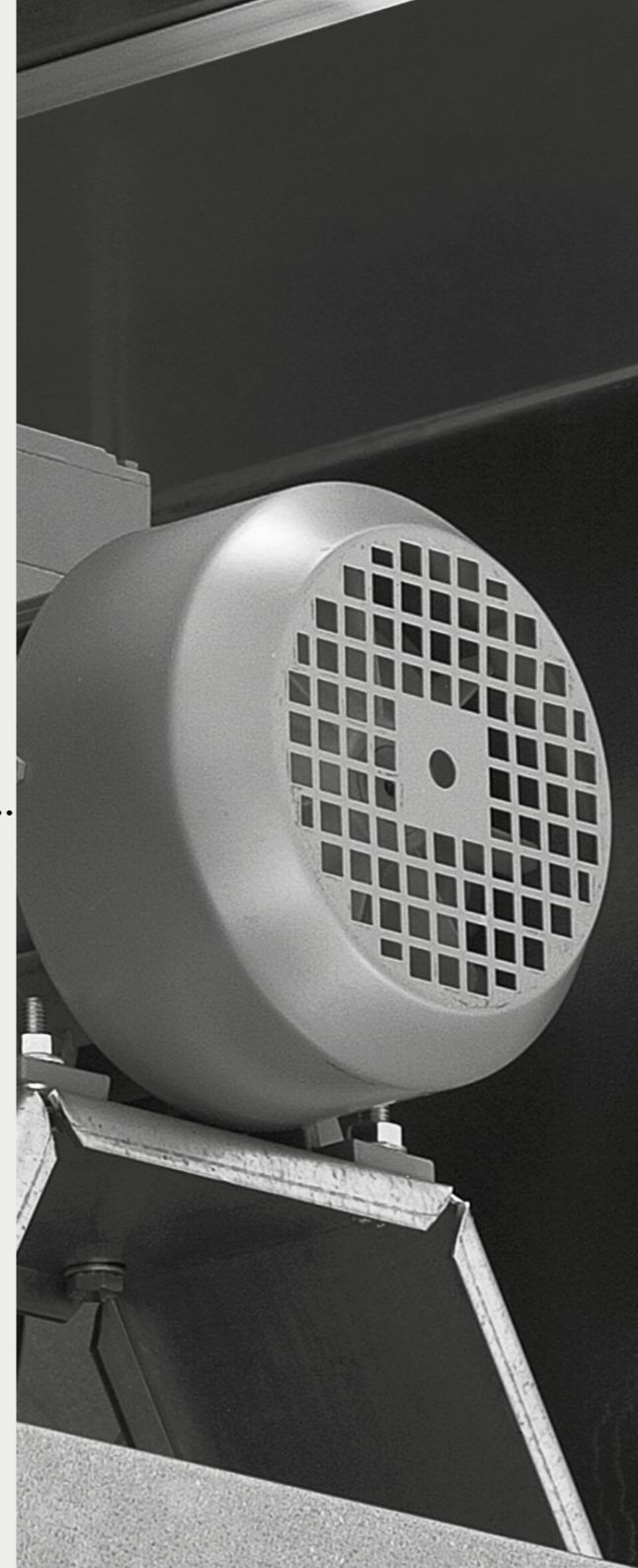


1 WEEK delivery time as a STANDARD

Innovative FRAMELESS casing - a unique casing structure provides excellent integrity and rigidity to the AHU.



- Highest possible leak-proof design
- No thermal bridges
- Minimized energy loss
- Exceptional integrity
- Compact size
- Highest casing rigidity rating
- Modern design
- Easy installation



Energy recovery systems – affordable for everyone

VENTUS may be equipped with: Rotary Regenerator, Cross-flow Heat Recuperator and Run-around Coil. Energy recovery systems ideally suited to any climate condition. Sensible and latent heat recovery.

Energy recovery rate up to 85%!

Heat Wheel



- Maximum heat recovery efficiency of up to 85%
- Low internal air leakage rate of 1% - 3%
- Equipped with motor and VFD to adapt to environmental changes and ensure maximum efficiency



Cross-flow Heat Recuperator



- Maximum heat recovery efficiency of up to 70%
- Internal air leakage rate as low as 0.1%
- Ensures low air leakage in single direction



Run-around Coil



- Maximum heat recovery efficiency around 45%
- Air supply and exhaust are entirely separated
- Supply unit and exhaust unit can be placed separately



 The **products** worth **investing** in



Get more for less
 – maximum features in standard unit without added costs.

- Innovative **FRAMELESS** casing
- **Low weight**
- **Maintanance-free PLENUM** fan

VTS Air Handling Unit – VENTUS Born in the USA combines European technology and American sustainability. VENTUS born in the USA is tailored to the needs of the American market, available in either horizontal or vertical configurations. The unit offers a wide range of applications, providing a low cost method of air conditioning and/or heating buildings at the same time. The units can be configured for different inlet positions for easy duct connection. The same for the components inspection panels, which can be specified for right or left side.

1 WEEK delivery time as a **STANDARD**

Available in 9 nominal capacities
from 1300 - 14000 m³/h

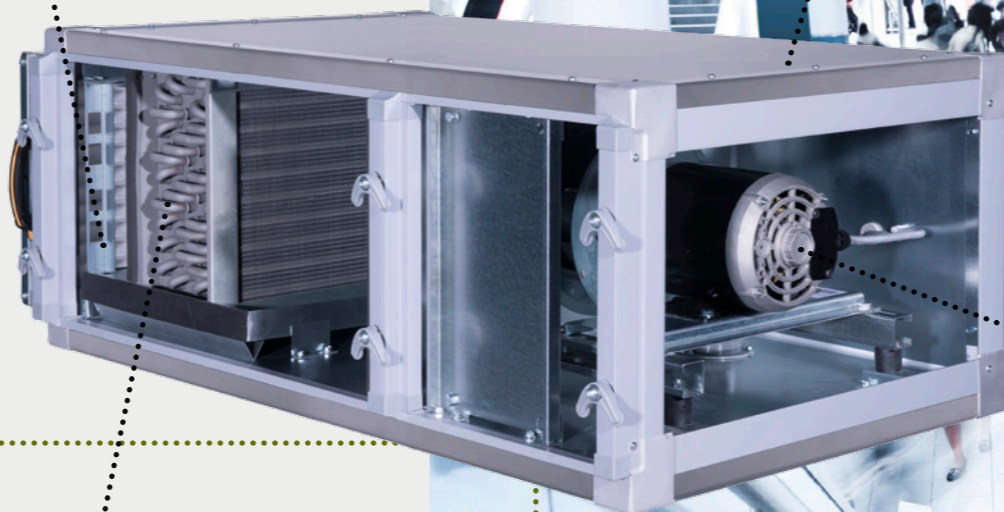
Wide range of applications

- Operation in different climate conditions (-40°C to 65°C)
- Compact size – possibility of mounting in small spaces and easy relocation if needed



Filters

All units have internal or external flat filter frame for two or four-inch filters:
 - Two-inch MERV8 filter
 - Four-inch MERV13 filter



Coils

Main coil with copper tubes and aluminum fins in 1, 2, 3, 4, 6 and 8 rows hydronic and 2, 3, 4 and 6 row for DX

Innovative Frameless casing

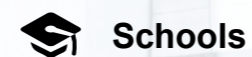
Low vibration, noise and elimination of thermal bridges - high durability polyurethane sandwich panels.

Control options

PLENUM Fan

Backward curved fan impeller, directly driven by highly efficient electric motor.

Typical applications:



Schools



Offices



Stores



Hospitals



OUR PRODUCTS

The **products** worth **investing** in

VENTUS
N-TYPE



VENTUS N-type series duct air handling units offer flexible equipment configuration. Duct-mounted **VENTUS N-type** line is dedicated for easy installation directly in the ducts. Perfectly suited for buildings, where no mechanical rooms for ventilation devices are present. System equipped with highly efficient energy recovery block based on horizontal cross-flow heat recuperator. Each size is composed of the basic elements - easy selection of the functions for the individual needs.

Proven quality of technical solutions:

- High performance, no-maintenance direct drive PLUG fans
- Rigid and durable casing offered as a standard feature due to the use of advanced Monocoque technology
- Cross-flow heat recuperator - energy recovery system
- Control unit base on the "OPTIMA" controller

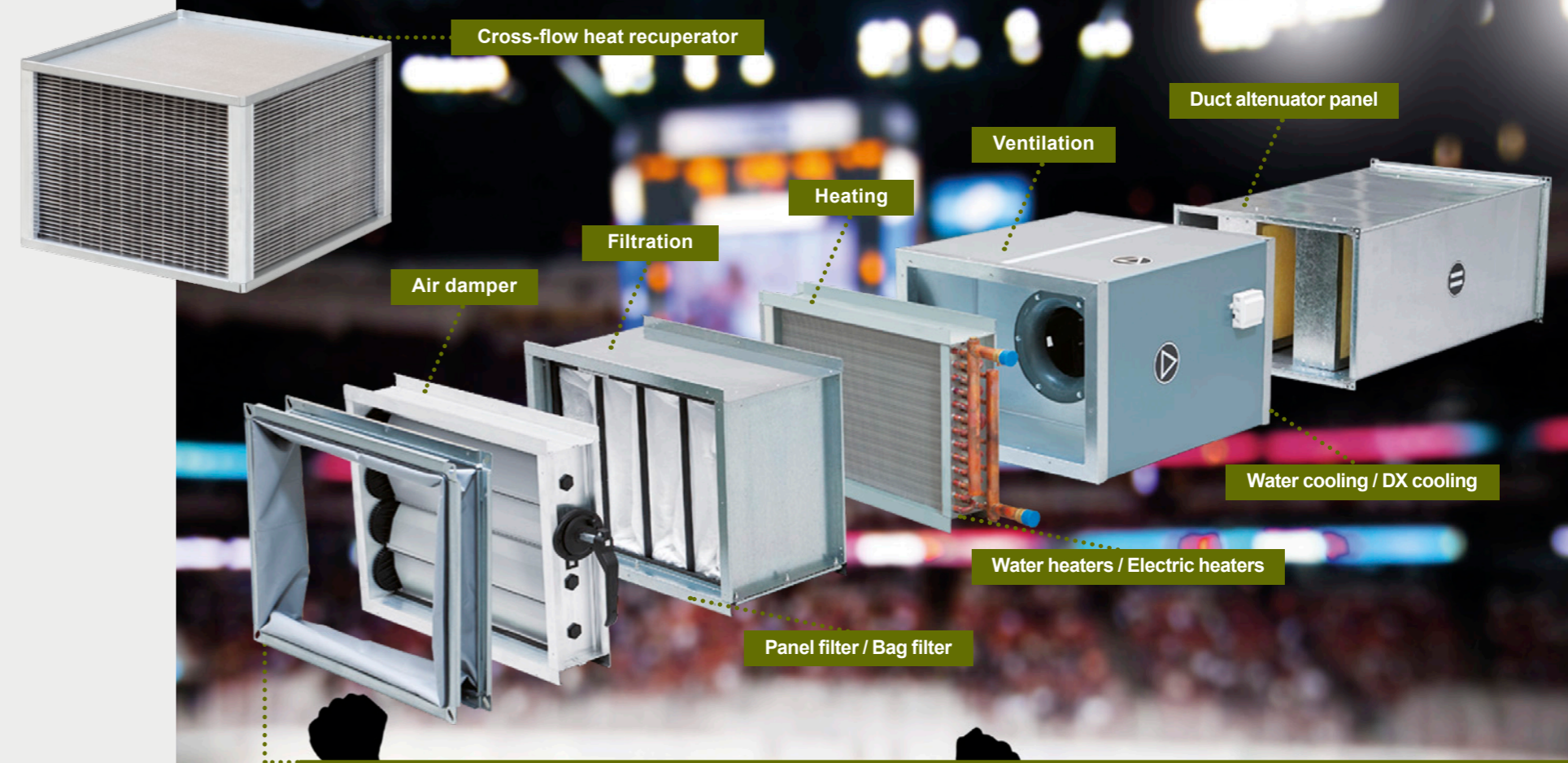
Investment safety:

- Low operating cost
- Lower installation costs - low device weight
- Installation space savings - compact sizes
- Easy operation and maintenance

Flexible in use:

- Multiple functions available
- Compact sizes

Fans used in our AHUs meet the requirements of **ERP 2015 Directive!**



Typical applications:

- Sports facilities
- Retail and warehouses
- Small businesses
- Residential buildings
- Industrial buildings
- Garages and workshops

VTS
OUR PRODUCTS

The **products** worth **investing** in



A range of air handling units developed with the use of advanced material engineering and innovative construction solutions. **VENTUS S-type** casing is designed in Monocoque, no-joint technology - a framework free construction, that eliminates thermal bridges and water condensation on the external AHU side. No water dripping from the ceiling! Due to unique construction, the unit is low weight and optimal height that makes it easy for transportation and further installation.

Proven quality of technical solutions:

- Effective, no-maintenance direct drive PLUG fans.
- Air flow range – advanced performance.
- Excellent VFD compatibility with PLUG fan - smooth airflow regulation.
- Rigid and durable casing offered as a standard feature due to the use of advanced Monocoque technology.
- Significantly reduced noise.

Investment safety:

- High quality on very competitive price level.
- Lower installation costs - low device weight.
- Low operating cost.
- Easy operation and maintenance.

Flexible in use:

- Compact sizes - installation space savings.
- Basic AHU with cooling function.

Each VENTUS S-type unit is tested **top quality guaranteed!**

- ✓ No leakages.
- ✓ Noise level.
- ✓ Vibrations.
- ✓ Start up.



Typical applications:

Residential buildings	Industrial buildings	Small businesses
Sports facilities	Retail and warehouses	Garages and workshops



OUR PRODUCTS



The **products** worth **investing in**

VOLCANO

Air Heater

VOLCANO heaters form an integral part of modern heating systems. Used in buildings of medium and large capacity, they eliminate the problem of underheating and the negative influence of atmospheric conditions onto the inside of the building.

The **VOLCANO unit heater** is available in three basic options



- | | | |
|---|--|--|
| <p>1 VOLCANO mini</p> <p>Heating power: 3-20 kW
 Weight: 9.8 kg
 Efficiency: 2000 m³/h
 Two-row coil exchanger</p> | <p>2 VOLCANO VR 1</p> <p>Heating power: 10-30kW
 Weight: 29 kg
 Efficiency: 5500 m³/h
 One-row coil exchanger</p> | <p>3 VOLCANO VR 2</p> <p>Heating power: 30-60kW
 Weight: 32 kg
 Efficiency: 5200 m³/h
 Two-row coil exchanger</p> |
|---|--|--|

Typical applications:

- | | |
|---|---------------------|
| Malls | Breeding facilities |
| Warehouses, workshops and production facilities | Sports facilities |

Lifetime casing warranty as a STANDARD



- Low noise operation
 - Failure-free operation
 - High efficiency
 - Innovative control systems
-

The **products** worth **investing** in

DEFENDER Air Curtain



The air curtain is a device which creates a protection barrier at the entrance to the building. Air curtain protects against the cold air when heat is in use and against dust, fumes, wind and insects in summer.

DEFENDER characteristics

- Aesthetic casing and modern design, high quality and efficient technical parameters
- Each version is available in 3 sizes (1m, 1.5m and 2m) which makes it useful for any project
- Available in two basic versions:
 - with hot water coil - heating power: 7.5kW - 28kW
 - with electric heater - heating power: 6.0kW - 13.5kW
- Maximum air range - 4m
- Low noise level



Lifetime casing warranty as a STANDARD



- Exchanger design allows for both vertical and horizontal installation
- Easy and intuitive, allowing the user to set the temperature between 10°C to 30°C
- Adjustment precision: + / - 1°C
- Integrated thermostat
- 3-speed fan operation
- Wall mounted controller
- Full support of all functions
- Possibility to work with door switches



Typical applications:



Offices



Hospitals, clinics and pharmacies



Hotels



Malls and shops



Warehouses and production facilities



Sports facilities

OUR PRODUCTS

We focus on **long term relationships** and **cooperation**

Operations

The high quality manufacture of VTS units is the result of the strict and up to date standards developed by VTS Group and independent international leading expert laboratories.



The VTS business model provides easy and immediate modification of the specification, allowing clients to adjust product orders virtually until the delivery date (until the product leaves the Production Plant). On-line information available to sales consultants regarding the entire flow of units, orders and sales, provides clients with up-to-date detailed information on their order status.

Due to a strong focus on mainstream products, VTS' stock comprises a limited number of ~ 1,400 components, always available in the Production Plants. This strategy results in a short lead time – 75% of deliveries are realized within 1 week from order and this allows further cost optimization.

Components are supplied by reliable manufacturers comprising over 40 suppliers - well known global equipment producers as well as VTS associated suppliers with proven long term cooperation with the Group.

Once the selected components are ready, they are dispatched to one of the VTS assembly hubs or to a final client for unit assembly.

Depending on the final order, the client can be offered to have the unit assembled in the company hub or on-site by an authorized team.

1 week
delivery time

315
AHUs daily

over
100,000
AHUs yearly



OPERATIONS

VTS is always **one step ahead**

Production Plant

In Europe, VTS offers VENTUS and VENTUS N-type Air Handling Units as well as VTS Euroheat heating appliances.

CENTRAL EUROPE

- VTS operates in Central Europe via Warsaw-based Production Plant and assembly hub.
- Orders are delivered within 2 weeks (including time of transport).
- AHUs distribution channels comprise their own network of mobile sales consultants with a presence in countries including: Romania, Hungary, Czech Republic, Slovakia, Lithuania, Latvia and Estonia.

RUSSIA

- VTS operates via Moscow-based warehouse and assembly hub.
- Orders are dispatched within 3 weeks (including time for transport).
- AHUs distribution channels comprise the network of 71 mobile sales consultants (with a physical presence in 16 regional cities).
- Approximately 25% of market share in Russia.

POLAND

- Locally, the Group operates through its own Production Plant and warehouse as well as assembly hub run by an associated partner.
- Customer orders are delivered within 1 week.
- The Polish market is represented by an extensive network of 50 mobile sales consultants spread across the country (a physical presence in 19 cities).
- Approximately 35% of the market share in Poland.

UNITED STATES OF AMERICA

- VTS America entered the market in 2014 offering the AHU tailored to the needs of American market.
- Production Plant in Atlanta as well as assembly hub and training centre.
- Customer orders are being realized within 1 week.
- VTS is bringing simplistic yet high-quality air handling solution to the U.S. and look forward to expanding awareness in this market of global application successes to date.



No.1
supplier
of AHU

In the United States of America, VTS offers VENTUS Born in the USA.

Asia and Middle East VTS offers VENTUS and VENTUS S-type Air Handling Units.

THE GULF STATES

- In the Gulf States, the Group operates via Production Plant and assembly hub in Dubai.
- Orders are delivered within 2 weeks.
- In UAE, VTS operates via sales offices in Abu Dhabi, Dubai and Sharjah. Saudi Arabia, Qatar and Kuwait are served via local dealers network.

CHINA

- In China, VTS operates via Production Plant and assembly hub located in Shanghai.
- Orders for standard AHUs are delivered within as little as 1 week.
- The Group is present in 3 regions and operates via a network of mobile sales consultants.

INDIA

- In India VTS operates via Production Plant and assembly hub dedicated to the Indian market.
- Orders are delivered within 2 weeks.
- Locally, VTS owns 5 sales offices, covering the most promising regions and operates via mobile sales consultants.

VTS is always **one step ahead**

IT systems

The Group's sales and distribution network is formulated by experienced technical sales consultants who interact directly with clients regarding all enquiries through ClimaCAD On-line. Proprietary software enables an easy-to-use client interface, quick on-line product set up, offers preparation in multiple languages and easy modification within minutes.

ClimaCAD is fully integrated with in-house IT systems and enables real time collaboration among multiple users all over the world.



Easy to use AHU selection application (ClimaCAD On-line).
Enter the selection application at www.vtsgroup.com
Select the AHU you need in 60 seconds.

ClimaCAD On-line

60 sec.
select the AHU in

People are the innovative **strength** of VTS Group

VTS's strength lies in a team of excellent professionals - specialists who, due to their passion, ambition, and hard work, continue to build a strong and solid organization.



Join VTS Team.
Visit our website and check available job offers.

We care about the safety
of your investment



Lifetime casing warranty for
VTS EUROHEAT products as a STANDARD

QUALITY, SAFETY, SERVICE

VTS Customer Service provides top quality guarantee and post-guarantee service – assurance and the shortest response time on the market.

The best delivery times on the market - immediate availability of heating devices, availability of standard AHU - even in 1 week!

Warranty up to 5 years.



Quality first

The highest quality of VTS devices is appreciated by the leading World experts - including EUROVENT, TUV, BVQI, Rostest, MBF-TMB, statistics confirmed by certificates of excellence.

EUROVENT



EUROVENT – the Eurovent certificate confirms the accordance of parameters of VENTUS VS 10-650 range calculated with the use of ClimaCAD On-line – the Group's product configuration application with real operating parameters. EUROVENT certification is considered the top performance rating in Europe with a nearly 50-year history. EUROVENT is well known for its strict test means and high test standards. VTS integrated energy recovery AHU has been awarded the EUROVENT certificate with excellent performance.

TUV



TUV – PN-EN 1886, PN-EN 13053 are the two most important standards on the European market describing parameters and the quality of ventilation and air conditioning AHUs. They are the only basis to apply for the membership in the EUROVENT Certification Company organization and obtain a EUROVENT certificate. The research process is carried out by independent research institutions with CEN – European Committee for Standardization notification including TÜV among others.

CE



CE - VTS devices comply with safety standards in accordance with EU guidelines. VTS units have been tested in accordance with Low Voltage Directive, Electromagnetic Compatibility and Machinery Directive.

ISO



ISO 9001 / ISO 14001 – a system of quality management implemented in VTS in 1996 in the field of design guarantees full repeatability of all VTS devices. ISO 14001 certificate confirms the efficiency of the environment management system aimed at protection of health and the environment against the harmful influence of production activity, products and services.

UL 1995



UL 1995 - VENTUS Born in the USA AHUs meet a number of strict security requirements imposed on equipment in the US and Canadian market. The units were tested by independent ETL laboratory in terms of durability of the structure and safe use of equipment.

VTS
QUALITY & SERVICE



VTS Group Headquarters

VTS Sp. z o.o.

Olivia Tower, Al. Grunwaldzka 472 A
80-309 Gdańsk, Poland

tel: +48 58 628 13 54

fax: +48 58 628 13 22

e-mail: vtsgroup@vtsgroup.com

www.vtsgroup.com



Scan QR code
to check VTS
sales offices