



THE **GLOBAL** PLAYER

Newsletter 1/2017



**THE MOST IMPORTANT
EVENTS**

▶ Introduction



Dear Sir/Madam,

For VTS 2016 was the year of changes and exciting events that we would like to share with you all.

While working for several years on the continuous improvement of our products, we have introduced a number of important and necessary modifications to the product offer. In the AHU segment, the most significant achievement was the introduction of Premium recoveries which meet the latest requirements of the Eco Design Directive 2016.

To fulfill the growing needs of the market, we supplemented the offer with the products that are complementary to our air handling units, namely water pump groups.

2016 brought a breakthrough also for the segment of heating devices - heaters and curtains. We launched our new designer WING curtains and a series of new-generation VOLCANO air heaters, prepared especially for the heating season 2016/2017.

It was an eventful year also in terms of strengthening good relations with our customers. Over 8,000 people participated in our seminars, devoted to product novelties and current trends in the industry.

In 2016 the quality of new products and solutions offered by us has been certified by TUV, proving compliance with standard DIN 1946-4.

We are also proud to announce that VTS received NATO accreditation as an authorized supplier of products in the field of HVAC.

However, we are most happy to see the expanding portfolio of satisfied customers. Some of our most remarkable achievements this year include: TESLA Gigafactory (USA), The Atria Tower (Dubai), Bell helicopters assembly hall (Czech Republic), Ice Arena (Kazakhstan), Nobilis Business House (Poland).

It was a very busy but successful year for us. We showed the world our strength and capabilities while accomplishing more than what we had planned. We are entering 2017 full of enthusiasm, power and energy, ready for upcoming challenges.

Hanna Siek-Zagórska



| TABLE OF CONTENTS

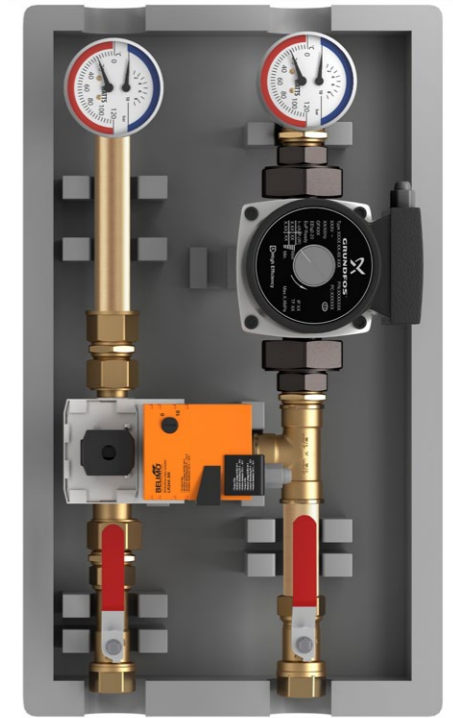
▶ IMPLEMENTATION	4
Introduction of energy recovery system PREMIUM	6
Extending the service range of our online shop	8
Introduction of WATER PUMP GROUPS	10
Introduction of a new air curtain WING	12
Changes in VENTUS air-handling units	14
Premiere of a new VOLCANO air heater	16
▶ FAIRS AND SEMINARS	18
Success of VTS America Inc. at the world's greatest fairs in HVAC sector - AHR EXPO 2016	20
American VENTUS air handling units at fairs in Chile	22
SEMINARS	24
▶ CERTIFICATES	28
▶ REFERENCES	34





01

IMPLEMENTATION



| Introduction of energy recovery PREMIUM



Pursuant to the the regulation of the European Commission entitled "THE REGULATION OF THE COMMISSION (EU) NO. 1253/2014 of 7 July 2014 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to Ecodesign requirements (ErP 2016 - Ecodesign 2016) for ventilation units" since 1 January 2016 the minimum energy efficiency in the produced ventilation units should be 63% for recovery systems with intermediate medium and 67% for other systems, with the reservation that the mixing chamber is not regarded as an energy recovery system.

In order to facilitate the selection of equipment conforming to Ecodesign 2016 requirements, VTS proposes the option of premium heat recovery based on cross-flow recuperators. The dry recovery efficiency for the PREMIUM option is greater than the standard option by approximately 40%.

Detailed information on the recovery offer PREMIUM is available on our website in the News tab

<http://vtsgroup.com/News>

In order to ensure correct operation of the exchanger for cooling recovery, VTS has equipped the unit with a damper closing the air flow at the cross-flow exchanger:

by-pass air damper

air damper for the mixing chamber in cross-flow exchanger blocks with the mixing chamber (PM)



The integration of the mixing chamber with the cross-flow exchanger significantly **changes the configuration and appearance of the handling unit.**

In order to ensure correct operation of the exchanger for cooling recovery, that exchanger is factory-equipped with **dampers closing the flow at the cross-flow exchanger.**

air damper closing the flow of air at the cross-flow exchanger

On its website, VTS provides certified software for the selection of air handling units (CCOL). Upon selection of a suitable option, the software generates a report of conformity of the selected VENTUS unit to the requirements of the Ecodesign 2016 Regulation of the European Commission, including the temperature efficiency of heat recovery, specific fan power, air speed and many other technical parameters.



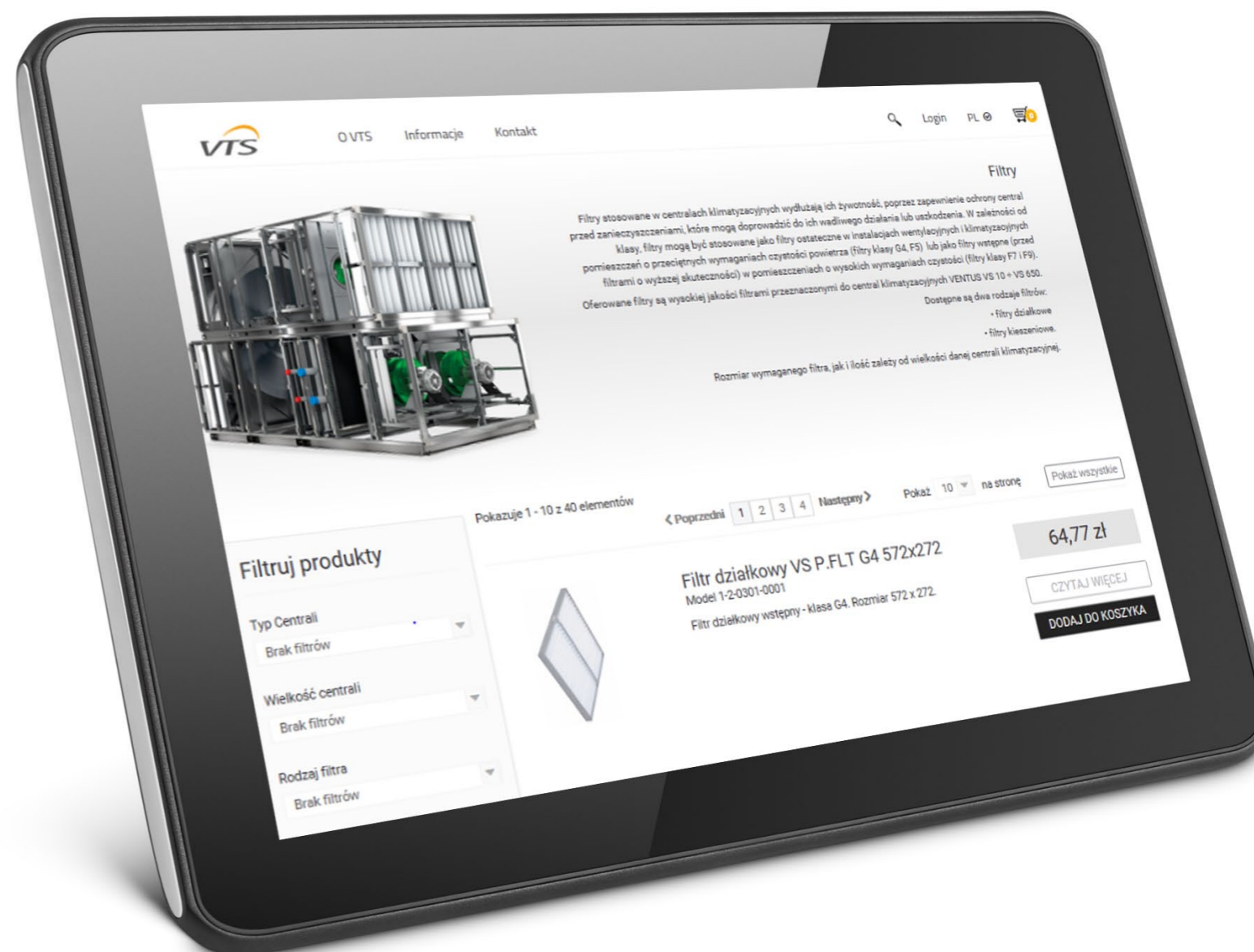
| Extending the service range of our eShop

In March the offer of VTS eShop was extended to include new product category.

Consumable materials for VENTUS air handling units in the form of filters were added to the current portfolio of devices and accessories for VOLCANO unit heaters and air curtains DEFENDER.

They are characterized not only by comprehensiveness and convenience of selection and purchase, but primarily by a very attractive price and numerous special offers.

Click the button below to check the latest prices of our filters

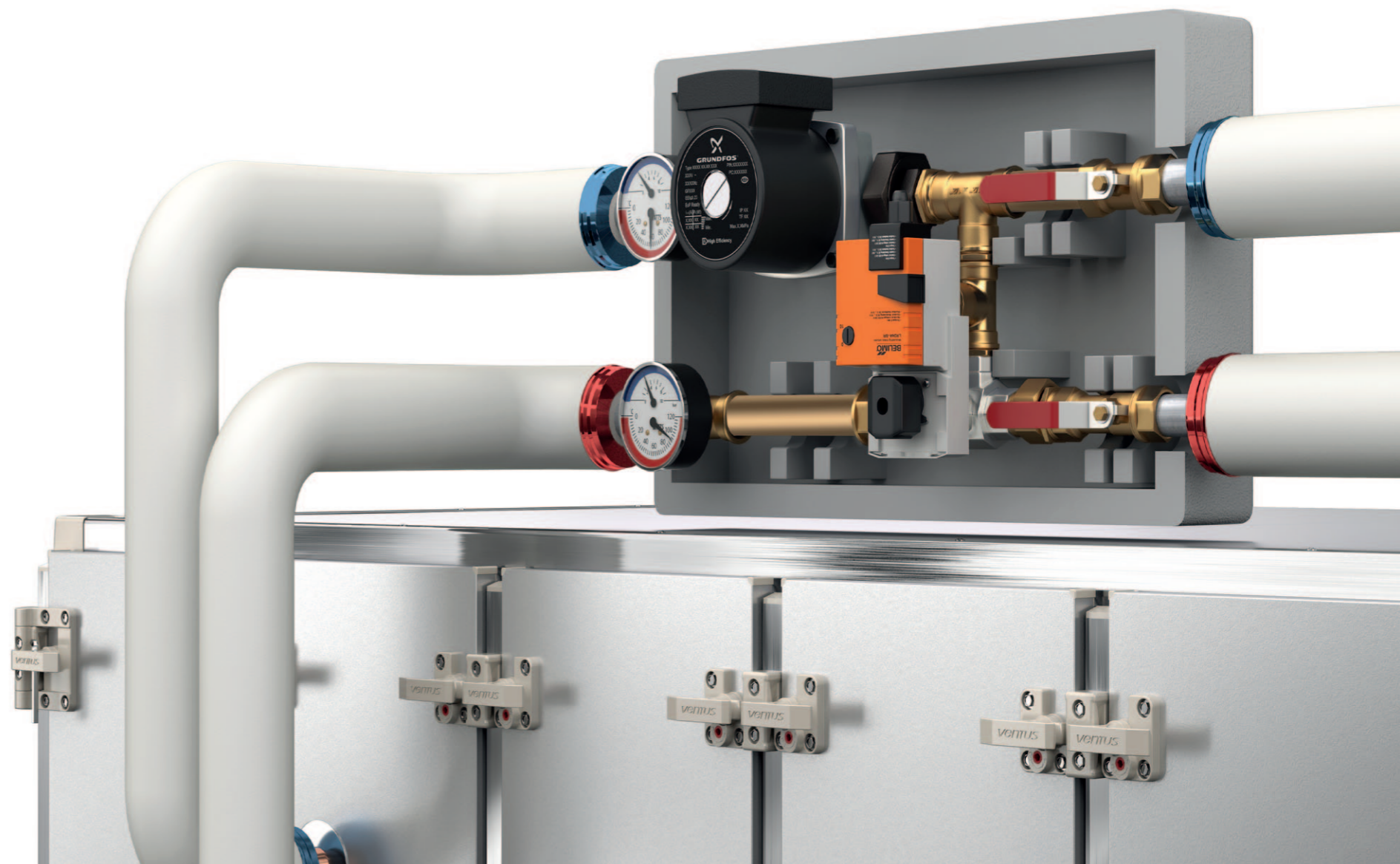


| Introduction of WATER PUMP GROUPS

VTS WATER PUMP GROUPS – a ready-made and convenient solution for water heater power control.

The offer includes 9 types of water pump groups depending on the rate of medium flow and hydraulic resistance (taking into account the authority of the three-way valve).

The application of the ready-made power regulation systems of water heaters is first and the foremost a convenient and easy solution for contractor companies, eliminating connection errors and guaranteeing the optimum adjustment of technical parameters of specific components of these systems. The method of qualitative regulation applied in them offers a possibility to apply double, most effective anti-freeze protection of water, based on return heating medium temperature measurements, active also when the air handling unit is off, and on air temperature control with an anti-freeze thermostat. The additional fitting of connection spigots with thermomanometers offers the possibility to monitor in real time medium temperatures and pressures, both on supply and on return from the heater.



**To find out more,
click the button below**

PUMP GROUP  **NEW**

| Introduction of a new air curtain WING

WING is a new quality in air curtains technology.

VTS engineers, taking advantage of their experience gained over the years of manufacturing and operating, have developed an innovative curtain design which combines both functional and aesthetic qualities and meets the current requirements for acoustics and energy savings. The quietest curtain currently available on the market has been obtained.

Thanks to the special solutions reducing air flow resistance and application of EC motors as well as precisely developed rotor and air blades, the electricity consumption has been successfully reduced while still obtaining the required air stream range and the outstandingly short start-up time to full performance. The innovative and aesthetic shape of the WING curtain complements its unrivalled perfection.

Click and check the parameters of the new WING curtain

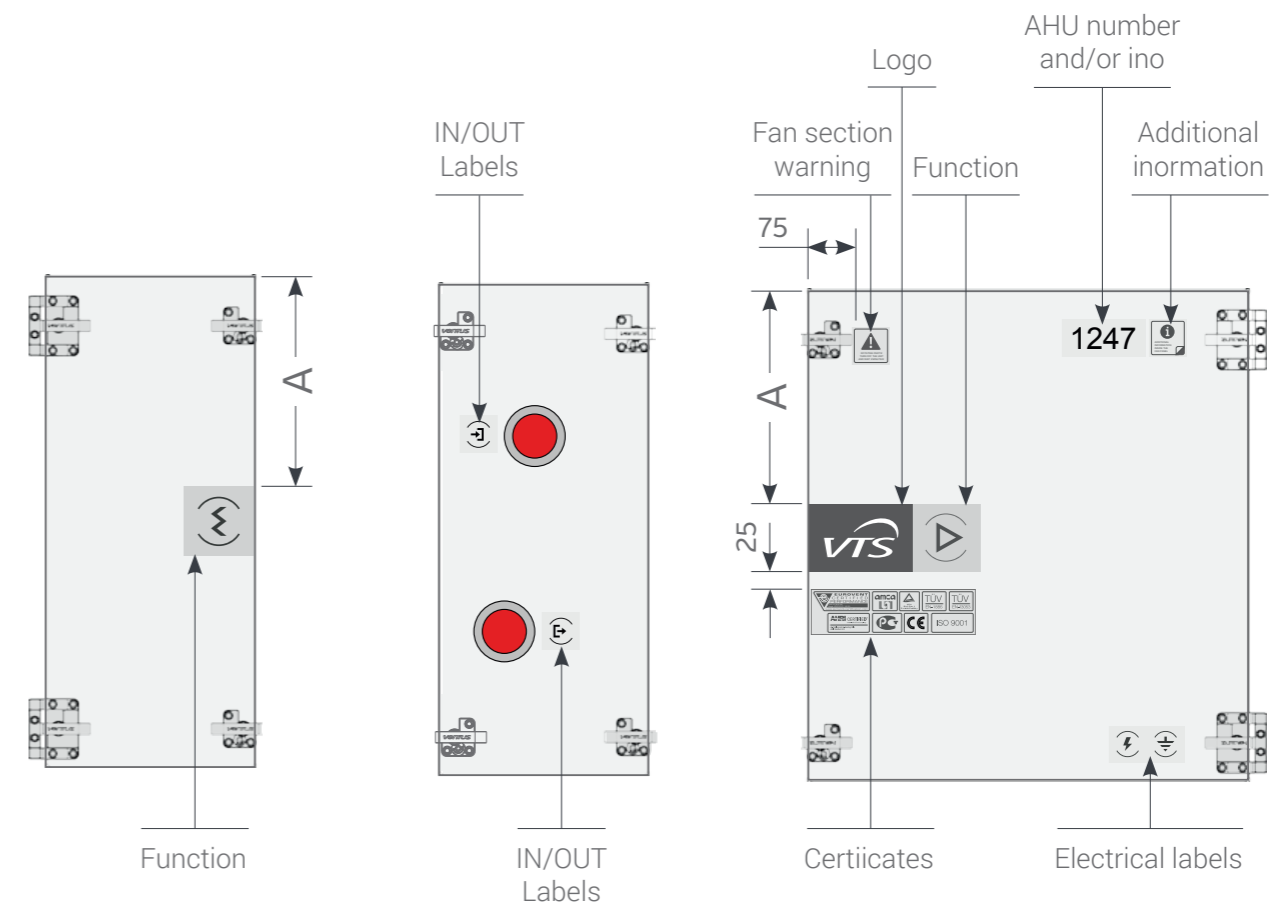


| Changes in VENTUS air-handling units

In July, VTS introduced modifications in terms of the components of VENTUS air handling unit.

The most important changes include:

- > introduction of the rotary exchangers provided with a self-bearing cage enclosure and a mounted, connected and programmed frequency converter.
- > New frame in VS 180-650 units
- > Three-sloped condensate drain pans
- > Standardization of water exchanger collectors
- > New standard for units labeling



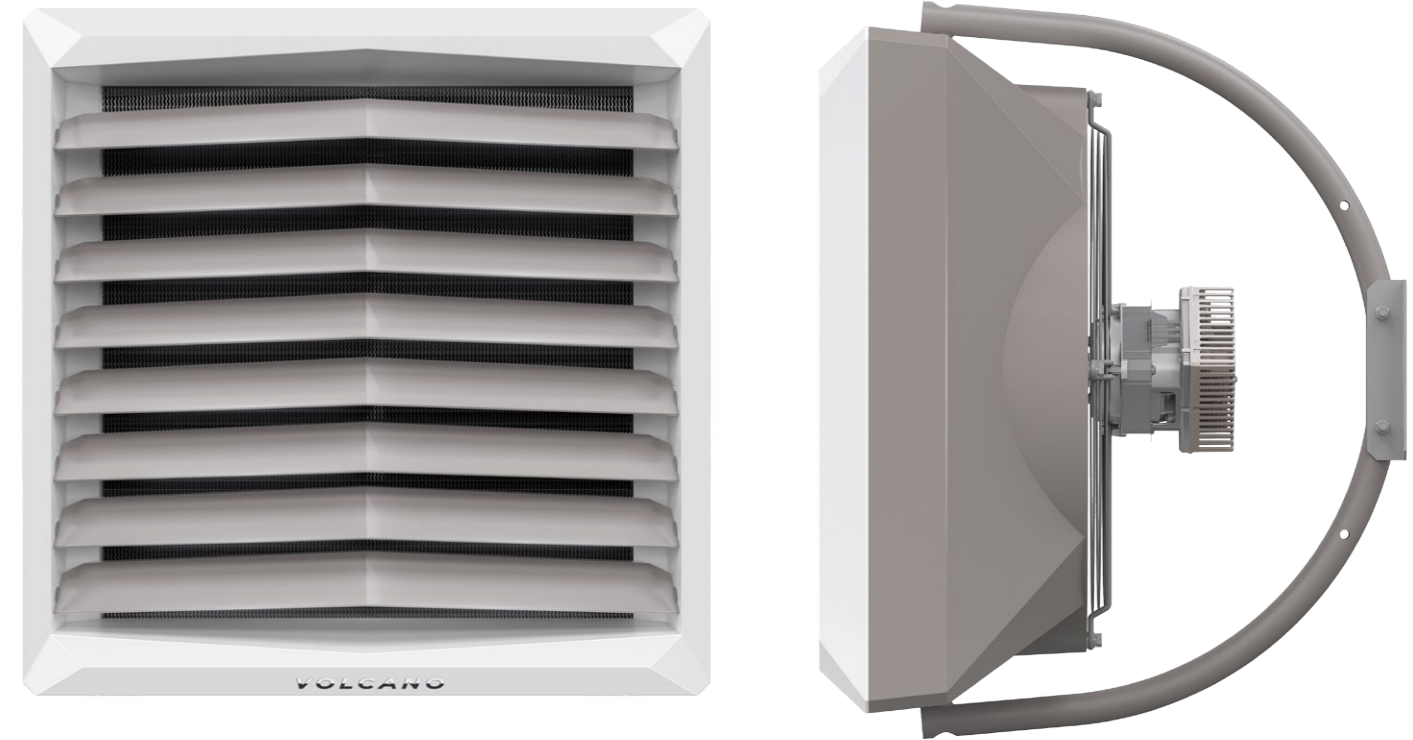
| Premiere of a new VOLCANO air heater

With the awareness of growing expectations of customers, of changing market trends and legal conditions, VTS have designed a new line of VOLCANO heating devices which, with their technical parameters, the quality of applied materials and the state-of-the-art design will allow the Company for the preservation of its unquestionable leader's position on the European and Eastern markets.

The new VOLCANO is a new-generation device that combines innovative technical solutions with modern industrial design. The precisely made light shape of the casing recalls the beauty and perfect simplicity of a diamond.

The new VOLCANO is a new-generation device that combines innovative technical solutions with modern industrial design. The precisely made light shape of the casing recalls the beauty and perfect simplicity of a diamond.

**Click and find out more
about new VOLCANO heater**





02

FAIRS AND SEMINARS

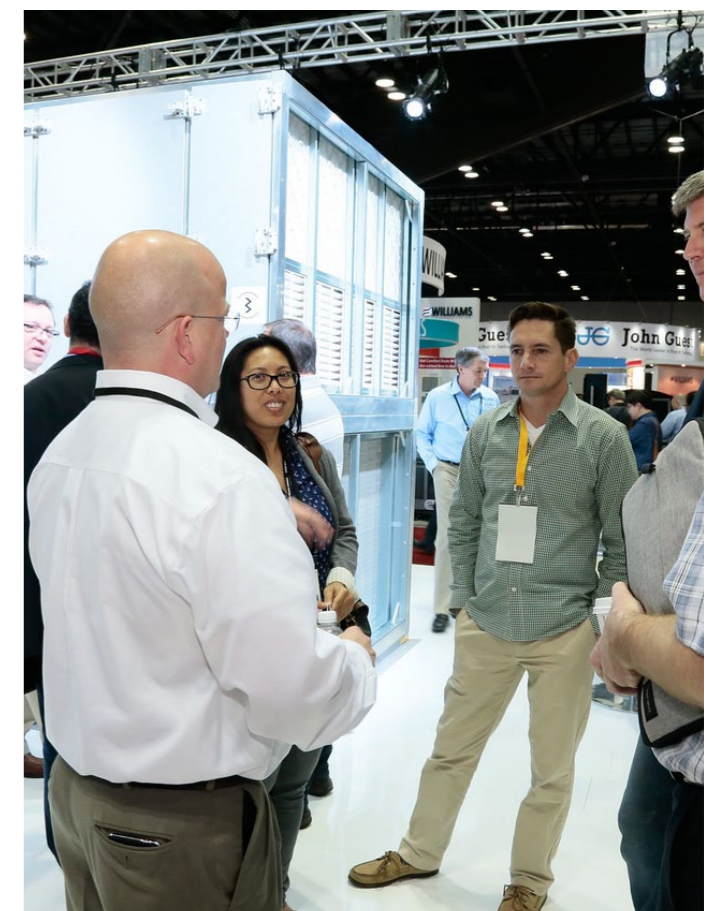


| Success of VTS America Inc. at the world's greatest fair in HVAC sector - AHR EXPO 2016

On 25 - 27 January 2016 VTS company has again presented its product offer at the world's greatest fair of HVAC industry - AHP EXPO 2016 in Orlando, Florida. A modern stand exhibiting a flagship product of VTS - central air handling unit American VENTUS 2016 attracted crowds of visitors. As set out in the global development strategy of VTS group, participation in the fair is another step in building a position of a global leader in HVAC sector.

AHR EXPO fairs organized since 1930 are the world's largest trade fairs in HVAC industry. More than 60 000 people from all over the world visited the Orange County Convention Center and became familiarized with the current product offer exhibited on stands of the most important companies from the industry.

Report from the fair is also available on our YouTube channel



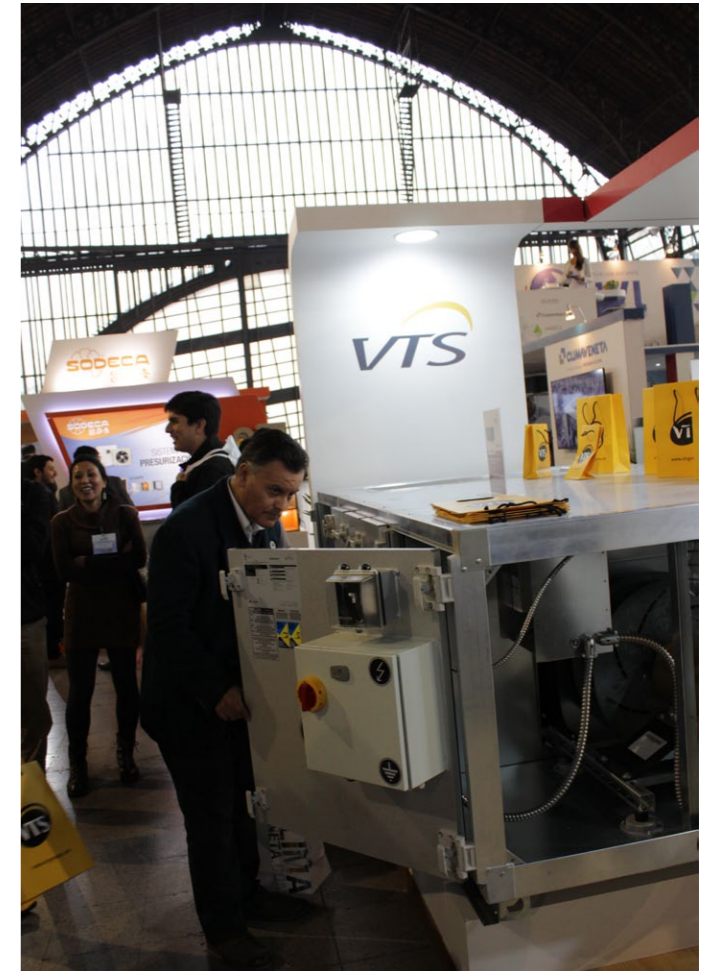
American VENTUS air handling units at fairs in Chile

EXPO FRIO CALOR,
one of the biggest fairs of the HVAC industry
in South America, took place
on 11-13 May in Santiago (Chile).

During the fairs, we presented the American VENTUS air handling units, which attracted the interest of many industry specialists visiting our stand.

More details about the fair are available
on our website at:

<http://vtsgroup.com/News>



JANUARY – DECEMBER 2016

In 2016, in our seminars all over the world participated more than

8000 people

→ The number can be compared to e.g.

8000 people

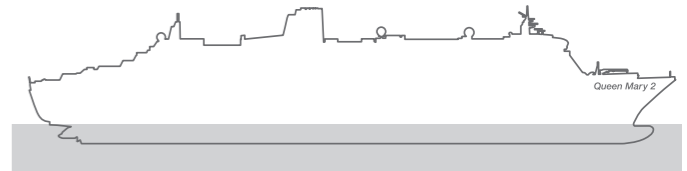
244 seminars

17 countries

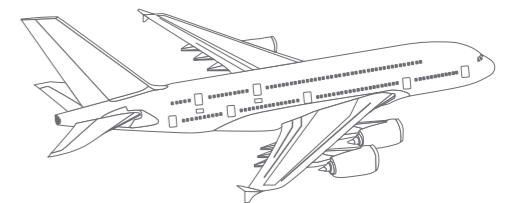
Number of passengers of



3 ships
Queen Mary 2



14 airplanes
Airbus A380



Population

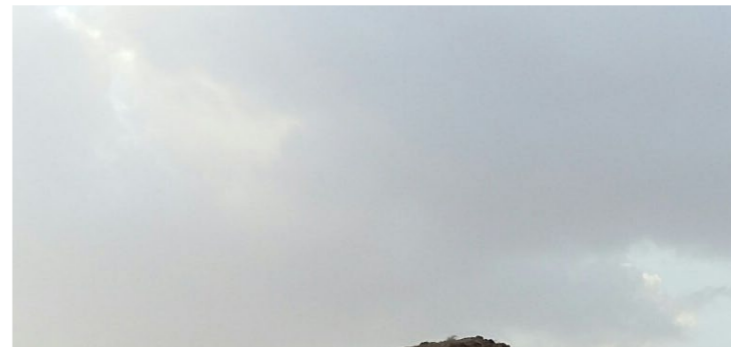


10 times bigger than
Vatican population



15 times bigger than
Portofino population







03

CERTIFICATES



NCAGE



VENTUS 2016 units in hygienic version

The series of VENTUS VS 10-650 control points was covered by TÜV Rheinland for use in health care institutions, according to DIN 1946-4.

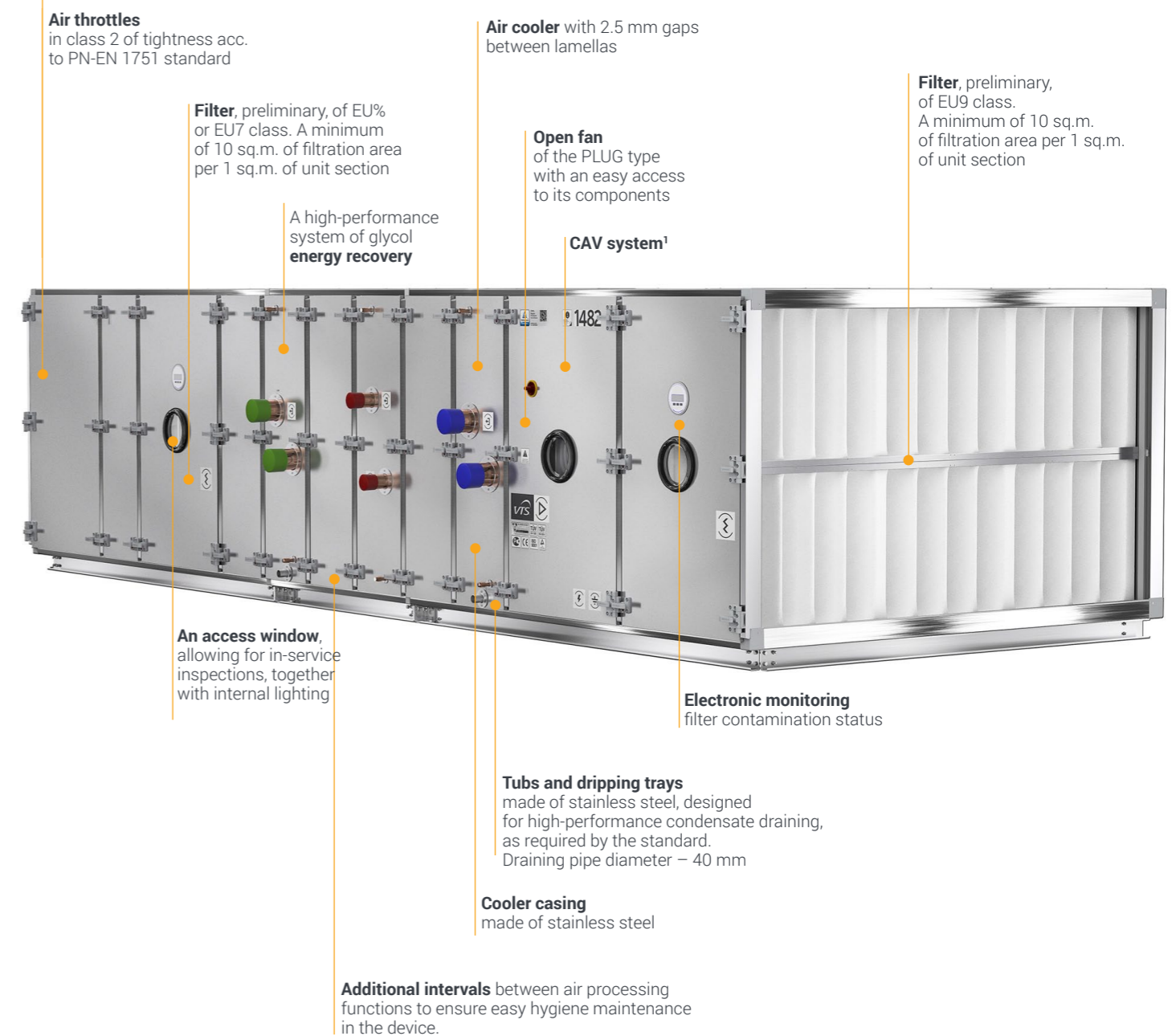


The certificates obtained by VTS are yet another confirmation of the high manufacturing quality of VENTUS units. It also expands the competitiveness of the offer in the field of ventilation and air conditioning projects dedicated to healthcare facilities.

Detailed information on the certificate
are available on our website at

<http://vtsgroup.com/News>

DIN 1946-4 standard is the basic document describing the requirements for the ventilation of health care institutions, including hospitals. This standard sets out a number of conditions which have to be satisfied so that the control unit could be used for the ventilation of hospitals.



¹ Air flow indicator, to be installed on the fan chamber or on the control cabinet

VTS Poland obtained NATO Commercial and Government Entity Code (NCAGE)

By Decision of the Military Centre for Standardization, Quality Assurance and Codification, VTS Poland Sp. o. o. has obtained the NCAGE certificate (NATO Commercial and Government Entity) with code number 3288H. The code identifies the company in the NATO Codification System (NCS).

The certificate confirms that VTS Poland meets the standards set by NATO for suppliers of products and services. As part of the certification, the company's data has been entered in the National Register of Economic Entities in the NCS system and will be published in the NATO Base of National Economy Entities contained in NATO Master Catalogue of References for Logistics (NMCRL).



Detailed information on the certificate are available on our website at

<http://vtsgroup.com/News>





04

REFERENCES





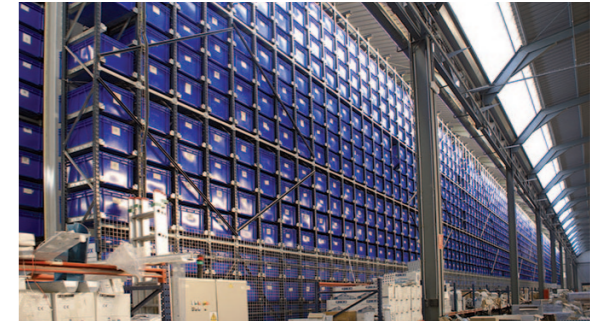
Name of building: **Ashjar at Al Barari Residential**
Country: **UAE**
City: **Dubai**
Devices: **VENTUS**



Name of building: **Ice Arena**
Country: **Kazakhstan**
City: **Almaty**
Devices: **VENTUS**



Name of building: **AEROSTAR SA**
Country: **Rumunia**
City: **Bacau**
Devices: **WING**



Name of building: **SECOM SA**
Country: **Rumunia**
City: **Chiajna**
Devices: **WING**



Name of building: **Kolostat**
Country: **Canada**
City: **Quebec**
Devices: **VENTUS**



Name of building: **Nobilis Business House**
Country: **Poland**
City: **Wroclaw**
Devices: **VENTUS**



Name of building: **Kondratievsky Business Center**
Country: **Russia**
City: **Saint Petersburg**
Devices: **VENTUS**



Name of building: **STADION WIDZEW**
Country: **Polska**
City: **Włódz**
Devices: **WING**



Name of building: **Park Inn Hotel**
Country: **Netherlands**
City: **Amsterdam**
Devices: **VENTUS**



Name of building: **ETK Logistic Center**
Country: **Estonia**
City: **Tallinn**
Devices: **VENTUS**



Name of building: **The Atria Tower**
Country: **UAE**
City: **Dubaj**
Devices: **VENTUS**



Name of building: **Nazarbayev University School of Medicine**
Country: **Kazakhstan**
City: **Astana**
Devices: **VENTUS**



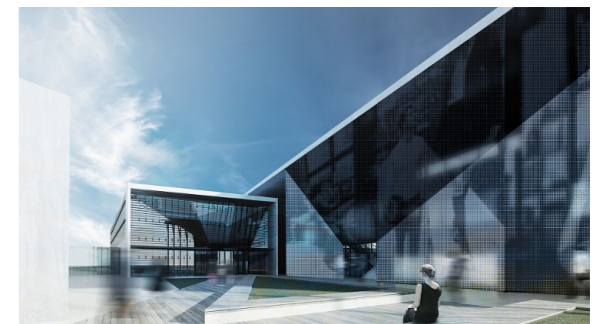
Name of building: **Bell helicopters - Assembly hall**
Country: **Czech Republic**
City: **Prague**
Devices: **VENTUS**



Name of building: **Coresi Business Park**
Country: **Romania**
City: **Brasov**
Devices: **VENTUS**



Name of building: **Rollie Johnson Inc**
Country: **USA**
City: **St. Louis**
Devices: **VENTUS**



Name of building: **Järveküla Kool**
Country: **Estonia**
City: **Tallin**
Devices: **VENTUS**



Name of building: **TESLA Gigafactory**
Country: **USA**
City: **Sparks**
Devices: **American VENTUS**



Name of building: **EXPO-2017 pavilions**
Country: **Kazachstan**
City: **Astana**
Devices: **VOLCANO**



Name of building: **Moon Island-Pearl Qatar**
Country: **Qatar**
City: **Doha**
Devices: **American VENTUS**



Name of building: **Double tree by HILTON**
Country: **Kazachstan**
City: **Almaty**
Devices: **VOLCANO**



Name of building: **The traditional Chinese Medicine Hospital**
Country: **Chiny**
City: **Inner Mongolia, Hohhot**
Devices: **VENTUS**



Name of building: **Residential and Commercial building B+G+1P+12T in Al Jadaf**
Country: **Dubai**
City: **UAE**
Devices: **VENTUS**



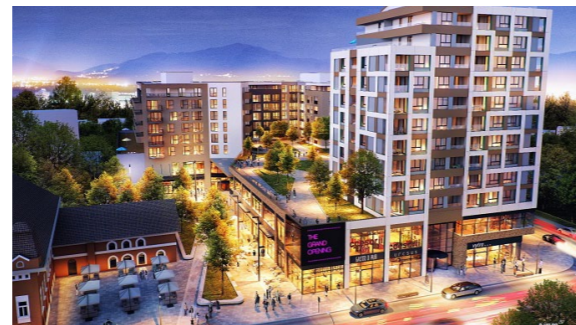
Name of building: **P4 office complex**
Country: **Polska**
City: **Warszawa**
Devices: **VENTUS**



Name of building: **CF Sherway Gardens**
Country: **Canada**
City: **Etobicoke**
Devices: **VENTUS**



Name of building: **Kalyani Tech Park - Magnolia**
Country: **Indie**
City: **Bangalore**
Devices: **VENTUS**



Name of building: **Platina Malle**
Country: **Rumunia**
City: **Cluj Napoca**
Devices: **VENTUS**



Name of building: **China Eagle Forest Building**
Country: **China**
City: **Shanghai**
Devices: **VENTUS**



Name of building: **City Business Center**
Country: **Rumunia**
City: **Bucharest**
Devices: **VENTUS**



Name of building: **Space and Missile Center Progress**
Country: **Russia**
City: **Samara**
Devices: **VENTUS**



Name of building: **Aquatics Center**
Country: **Poland**
City: **Chelm**
Devices: **VENTUS**



Name of building: **International Airport Yuzhnij Rostov on Don**
Country: **Russia**
City: **Rostov on Don**
Devices: **VENTUS**



Name of building: **JDM House**
Country: **India**
City: **Vadodara**
Devices: **VENTUS**

▶ REFERENCES



Name of building: **DEWA Solar Innovation Center**
Country: **UAE**
City: **Dubai**
Units: **VENTUS**



Name of building: **Nanjing Sunny World Center**
Country: **China**
City: **Beijing**
Units: **VENTUS**



Name of building: **Morgan Stanley**
Country: **India**
City: **Mumbai**
Units: **VENTUS**



Name of building: **Office building Bobrowiecka 8**
Country: **Poland**
City: **Warsaw**
Units: **VENTUS**



Name of building: **Green Quater**
Country: **Kazachstan**
City: **Astana**
Units: **VENTUS**



Name of building: **Oblemenco Stadium**
Country: **Romania**
City: **Craiova**
Units: **VENTUS**



Name of building: **Shanghai Wanhua International R&D Center**
Country: **China**
City: **Shanghai**
Devices: **VENTUS**



Name of building: **Kempinski Hotel**
Country: **Kazachstan**
City: **Almaty**
Devices: **VENTUS**

