



# THE GLOBAL PLAYER

Newsletter 1/2020

NEW  
Compact  
AHU



## VENTUS Compact – excellence in simplicity

- | VMS – VENTUS MANAGEMENT SYSTEM
- | New HMI controller for operating the WING EC air curtain and the VOLCANO EC water heater
- | VTS units in modular hospitals dedicated to combating the pandemic in Russia

VTS

## ▶ Introduction



Ladies and gentlemen,

I invite you to read the next edition of our corporate newsletter.

In this issue we paid special attention to the changes we have introduced in our VENTUS Compact air handling units. The units that we launched two years ago have undergone further improvements, with the aim of creating a product that will allow the VTS offer to reach new customers and enable further expansion of the company on markets where we have not been present so far.

I especially recommend to you the material about our new, proprietary solution - the VMS system. The new solution allows to monitor and remotely manage the operation of AHUs in real time via a web browser, thus being compatible with any mobile device.

Despite the difficult situation related to the coronavirus pandemic, I would like to inform you that VTS Group has maintained continuity of production and deliveries in all markets, and the lead times of orders have not changed.

I wish you a lot of health and a pleasant lecture.

Hanna Siek, VTS Group CEO.

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# | VENTUS Compact - excellence in simplicity

The new product line of VENTUS COMPACT air handling units launched in 2018 enjoys the ever-growing interest from designers and the appreciation of users.

The recently introduced change in casing insulation from polyurethane foam to mineral wool additionally contributes to the already numerous advantages of this product. Among the benefits of the new insulation are significant reduction in noise levels generated through the unit's casing and fire performance increased to the highest of the classified values.

Let us remind you that the guiding idea when designing

compact air handling units was to deliver a complete, highly efficient device with high configuration flexibility, smallest possible footprint, coming with power supply and control systems in standard, and all this at a competitive price.

In line with the principle of *excellence in simplicity*, the new units are characterized by: simplicity of selection, design, installation and control - **4S**.



## VENTUS Compact 2020

The main benefits of new VENTUS Compact AHUs include:

- » casing insulation made of mineral wool,
- » EC motors in fan wall system,
- » monitoring and management of AHU operation - VENTUS MANAGEMENT SYSTEM.

## Casing

Our VENTUS Compact units feature a casing made of sandwich panels attached to the internal supporting structure. The sandwich panels, made of mineral wool (stone wool), are covered with sheet metal on both sides. The idea behind using mineral wool is to ensure greater comfort for our customers by:

- » using the highest-class A1 insulation material on a seven-stage fire performance scale,
- » using material with excellent sound attenuation parameters - (you may call it an acoustic plate) - to ensure even quieter operation.

It is also important to note that the properties of the casing have been tested by Eurovent. Both the suspended (VENTUS Compact VVS005s - VVS030s MW) and floor mounted (VENTUS Compact VVS021c - VVS150c MW) units have been certified by Eurovent. The results of the certification for the individual AHUs are available on the Eurovent website under link [linki](#).



[VIEW THE CERTIFICATE](#)

## Fan wall EC motors

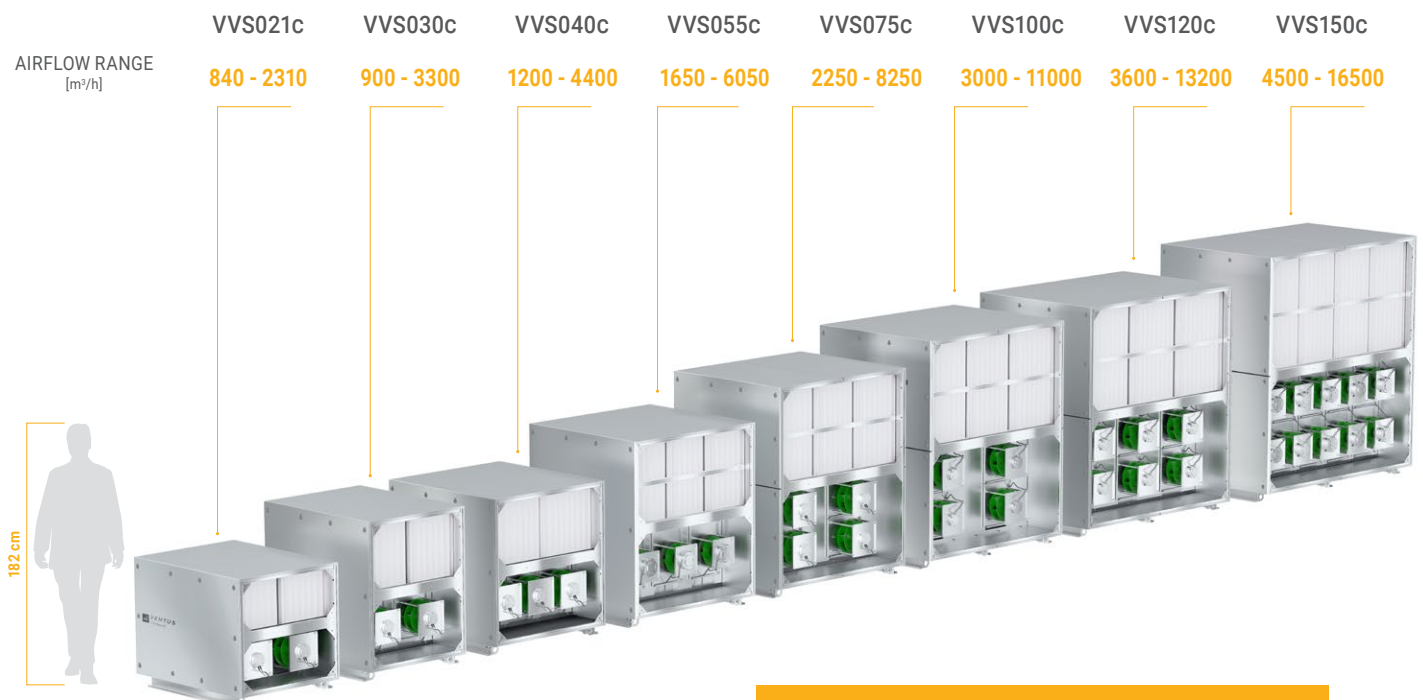
### Eurovent

The Eurovent certificate is the international, most prestigious in the HVAC industry certificate confirming the reliability of presented parameters in the manufacturer's selection program and classifying casing parameters according to EN 1886. The Eurovent certificate is issued on the basis of tests carried out by independent prestigious laboratories such as TUV.

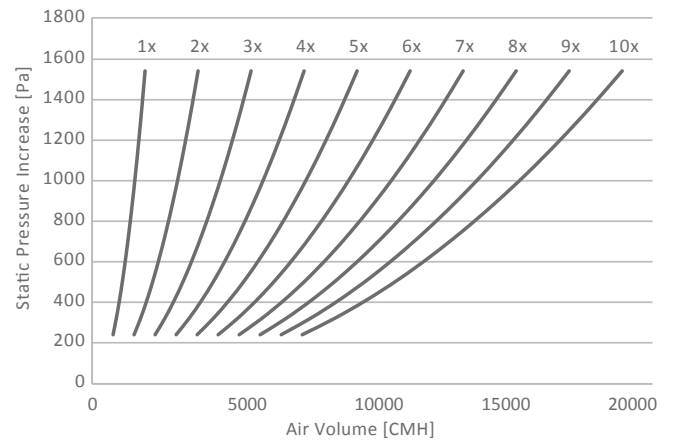
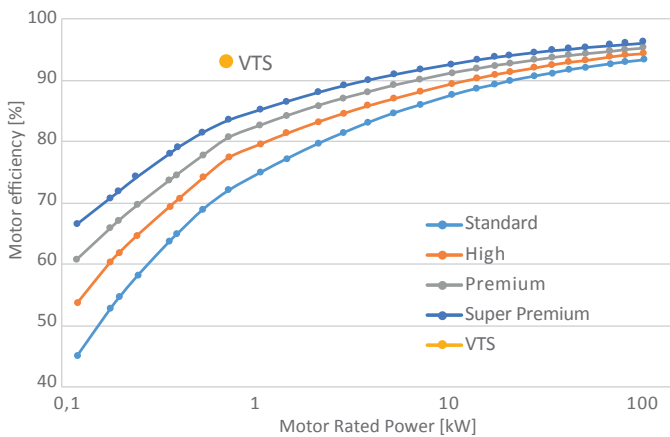
VENTUS Compact AHUs use fan units with EC motors placed on a common frame fixed to the fan diaphragm. The number of fan units depends on the operating parameters of the air handling unit and is selected so as to ensure maximum efficiency of the fan section.

The motors run in a fan wall system, guaranteeing:

- » even air distribution in the AHU cross-section,
- » selection of AHU parameters at optimal efficiency of the fans,
- » possibility of fan redundancy.

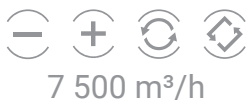


**Compact size  
for the most demanding  
technical rooms**

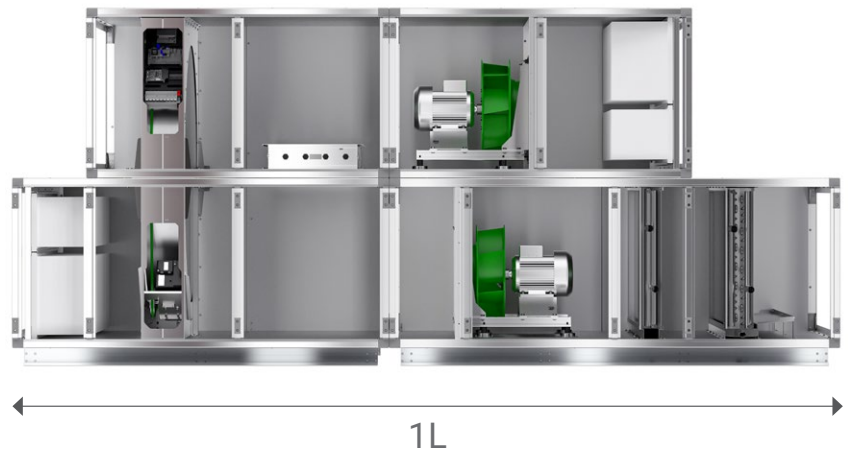
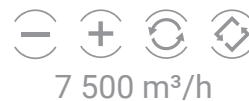


Floor mounted VENTUS Compact air handling units from VTS are the perfect solution for limited spaces in technical rooms. While maintaining the same functions, these units can be up to half as short as standard modular units. It is also worth noting that VENTUS Compact units can come in indoor and outdoor variants, and the maximum length of the base section in a floor mounted compact unit is only 1400 mm.

### > VENTUS Compact



### > Standard air handling unit



### VENTUS MANAGEMENT SYSTEM

The compact VTS units are equipped with multifunctional automation system integrated in the device. The whole solution is based on the uPC3 controller. Thanks to this, VTS customers are also able to remotely monitor and manage the operation of the AHU as standard. These actions are made possible thanks to the VTS proprietary VENTUS MANAGEMENT SYSTEM (VMS). Details are available on the following pages 8-9.



# | VMS – VENTUS MANAGEMENT SYSTEM

VTS supplies control system with a factory-implemented application for remote monitoring and management of the operating parameters of the units in real time via a web browser on any mobile device.

VENTUS MANAGEMENT SYSTEM:

- » Remote monitoring and management of units parameters.
- » Easy and intuitive change of the devices operating mode.
- » Quick setup up of the optimal units operating schedule.
- » Visualisations of any devices parameters - current and stored data.
- » Reading of consumed and saved energy.
- » Accessed to PC, mobile device, web browser.

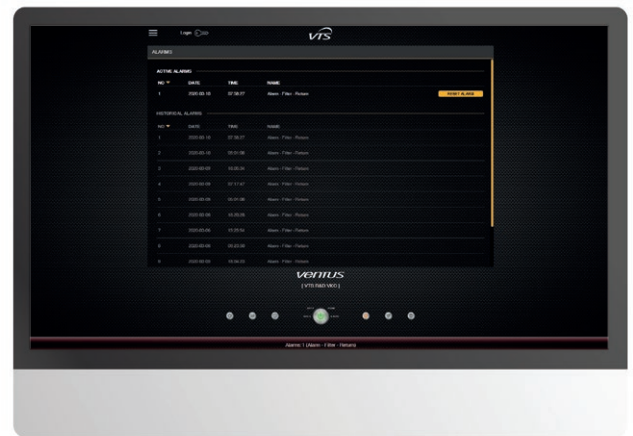






Graphical operation calendar:

- » Changing time intervals using sliders



Faults and alarms handling:

- » Clearing alarms
- » Alarm logging



Charts of unit's operation:

- » Two charts – main and secondary
- » Free selection of the set of parameters for monitoring and assigning them to selected ranges



Analysis of savings resulting from the operating scenario used:

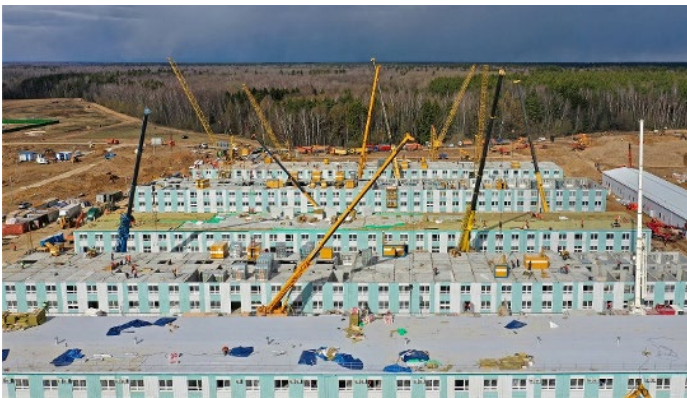
- » Graphical representation of the use of particular energy media
- » Costs and savings shown in any currency.

# VTS units in modular hospitals dedicated to fighting the pandemic in Russia

**Modular hospitals are quick solutions, to support and Protect the Medical system so it won't collapse under this pandemic that is affecting the entire world.**

Fast pace and high quality of equipment is what these modular facilities are in need of, and that's something that one of our best qualities, quick lead times, and high-quality HVAC products. The first hospital in the city of Voronovskoye was fully equipped with VOLCANO Heating units. Second hospital, in which we provided our European line of AHU's, Ventus VVS is on the city of Orenburg, we were capable of providing this equipment in 2 weeks, which is something rare, to say the least when it comes to manufacturing air handling units. Last but not least, in the city of Volzhsky their facility for infectious diseases was also equipped with our VTS VVS line to help with patient recovery.

**Hospital in Voronovskoye**



**Hospital in Orenburg**



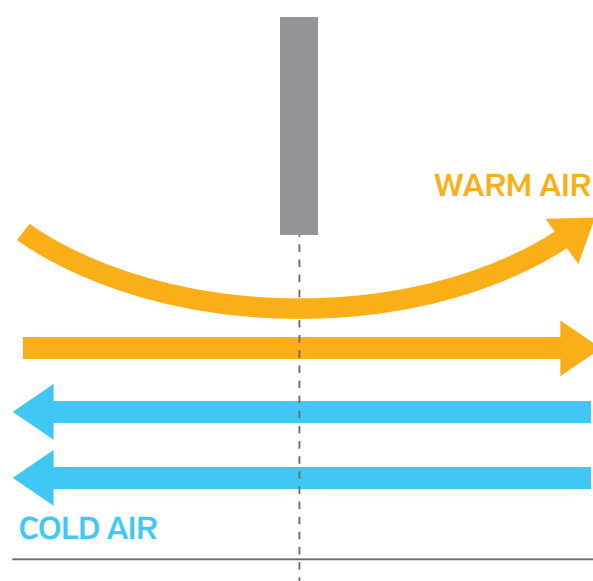
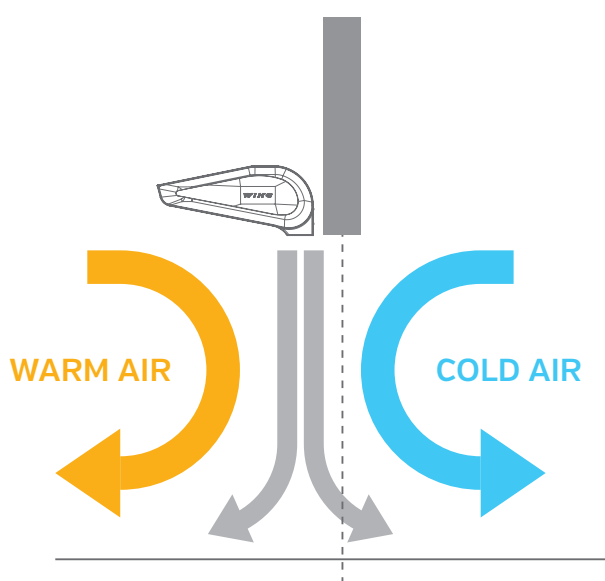
**Hospital in Volzhsky**





## | How to maintain hygiene and cleanliness of the inside air?

Did you know that the air curtain brings not only financial benefits? It is important to remember that the air barrier prevents most pollution, germs, insects and also viruses.



### How you can maintain hygiene and cleanliness of the air?

In addition to the main advantage that the air curtain offers, i.e. savings associated with the use of the object, you should also bear in mind that the use of air curtains also offers other benefits. Curtains equipped with water heat exchanger or electric heaters can be used as an effective device to warm up a room. Moreover, it is important to remember that the air barrier produced by the air curtain prevents most pollution, germs and insects which in the absence of the curtain would have got into the object. These are particularly important benefits for districts of raised air pollution and smog or at the time of the increased risk of bacteria and viruses in the air.

### Easy to clean and disinfection

It is also worth to mention, that Air Curtain WING is very easy to clean. Thanks to an optimized design of the cover, cleaning the curtain is convenient and does not require disassembly of any of its components, guaranteeing always hygienic operation of the device.

Galvanized double-coated steel casing, provides long-term protection against corrosion and consistent aesthetic qualities. The smooth surface is ready to clean with any kind of alcohol-based disinfectant.



## | New VOLCANO HMI controller for operating the WING EC air curtain and VOLCANO EC heating units.

We gladly inform that VTS is implementing new HMI-VOLCANO and HMI-WING controllers to the offer. Devices are dedicated to the units with EC motors, and they will replace the previous controllers Volcano EC and Wing EC.



### Intuitive and good looking

Brand new controller is dedicated for all types of WING EC air curtains and VOLCANO fan heater. It is smaller and better looking. It is characterized by a very easy and intuitive operation due to the comfortable, practical keypad and a high quality screen.

Controller is a part of whole philosophy of creating things simple and elegant. The whole set of our units and controller is a perfect match for the most representative buildings. And our goal is to be there with our products.

### New HMI controller key features

- » modern and compact design
- » high contrast and clear screen
- » advanced calendar for each day in the week
- » BMS systems compatibility
- » build-in thermostat
- » up to 8 units connected with the one controller.

- » ANTIFROST working mode
- » valve with actuator connection possibility

### WING

- » preset 3-levels speed control
- » 3-levels of heating power
- » door sensor cooperation

### VOLCANO

- » stepless fan speed regulation external temperature sensors cooperation

### How to settings a new controller?

Here you will find the movie tutorials about the new HMI controllers settings.





# VTS units in EXPO 2020 pavilions in Dubai

**EXPO World Fairs are among the most prestigious events that promote the cultural, scientific and technical achievements of countries and nations of the world.**

The start of EXPO 2020 is scheduled for October this year and will take place for the first time ever in an Arab country, namely Dubai. The motto of this year's exhibition is: "Connecting Minds, Creating the Future". As a global company, VTS not only approves of this philosophy, but

also contributes to the event. Our company delivered 394 units (VENTUS air handling units and fan coil units) to 13 pavilions.

Below we present a few objects where our units are located.

## 13

### PAVILIONS

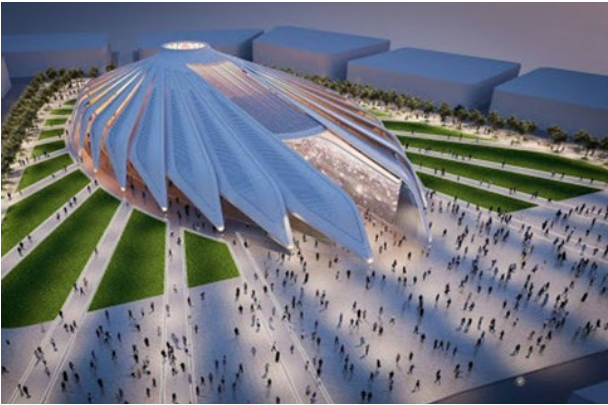
## 394

### DEVICES (AHU&FCU)





## ▶ LATEST REFERENCES



Name of the building: **Serbian Pavilion, EXPO 2020**  
Country: **UAE**  
City: **Dubai**



Name of the building: **The Orchard**  
Country: **USA**  
City: **New York City**



Name of the building: **Sport Hall**  
Country: **Poland**  
City: **Pulawy**



Name of the building: **Office Center Bolshevik**  
Country: **Russia**  
City: **Moscow**



Name of the building: **Hotel Grand Hyatt**  
Country: **India**  
City: **Goa**



Name of the building: **Porsche Showroom**  
Country: **Belarus**  
City: **Minsk**





Name of the building: **Araz Hotel**  
 Country: **Iran**  
 City: **Mazandaran**



Name of the building: **Samba Bank**  
 Country: **Saudi Arabia**  
 City: **Riyadh**



Name of the building: **Mother and Child Health Center**  
 Country: **Poland**  
 City: **Zielona Góra**



Name of the building: **Cameo Apartment Complex**  
 Country: **Russia**  
 City: **Moscow**



Name of the building: **ZONE RA STAFF ACCOMMODATION- YAS ISLAND**  
 Country: **UAE**  
 City: **Abu Dhabi**



Name of the building: **Ambience Mall at Vasant Kunj**  
 Country: **India**  
 City: **Delhi**