



# CATALOG

**AER**  **STAR**

**Manufacturer of energy efficient equipment  
for ventilation and air conditioning**

# AEROSTAR GROUP

RECOGNIZED MARKET LEADER IN VENTILATION EQUIPMENT



Huge enterprises 15 000 sq. meters  
of production facilities

+7000 clients from all over the world

3840 air handling units

4350 tons of metal

## PRODUCTION CAPACITY:

## AS A MANUFACTURER WE OFFER:



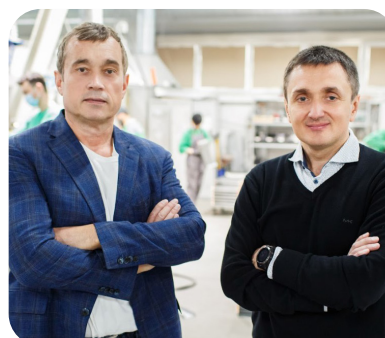
## RELIABLE PRODUCTS.

**Aerostar** – is the first Ukrainian manufacturer to receive the EUROVENT international certificate.

We improve our performance year by year and confirm the status of «reliable manufacturer».



According to TUV NORD CERT procedures,  
our company applies a management system in accordance  
with the international quality standard: ISO 9001: 2015



*“The products are of the  
same high quality as German  
and Italian ones”* Vasyl  
Khmelnitskyi, “K.Fund”





## NON-STANDARD SOLUTIONS OF COMPLEX TASKS

70% of the product range – systems developed by our Research & Design Centre for the implementation of complex engineering projects.



## WE PROVIDE TECHNICAL SERVICES

After installation of the systems our experts train the operating team to work with the equipment. The service department provides feedback to every customer. Service centres in all regions provide quick respond to each request.



## WE CREATE SMART SYSTEMS

The equipment is designed to get the maximum operating efficiency and reduce energy consumption.



## AUTOMATION AND DISPATCHING

For the convenience of control over engineering systems, we suggest using a dispatch system that can combine the systems of ventilation, air conditioning, heating, water supply, gas supply, lighting, elevator control and other equipment.

**The dispatch system provides key benefits of facility management:**

- constant centralized control over engineering systems;
- reduction of the human factor impact;
- management without constant presence of service and duty personnel.

## LEAN-CONCEPTION

In the organization of processes we use the principle of lean production. All systems are focused on obtaining the maximum result with the minimum resources. This ensures a constant improvement of the quality without increasing the cost.



### Regulated terms of production for each type of product.

The availability of a large number of ready-made equipment in stock makes it possible to quickly supply the customer with products.

### The use of high quality components from

Germany, Switzerland, Slovakia, Italy, Finland, France, Slovenia.

### 24/7 support service.

On-line in a way convenient for you (telephone, contacting through the application, or writing to the mail).

### Equipping the units with energy-saving technologies,

which allows saving up to 90% of energy and reduces operating costs.

**PAROC**

**ABB APS AROSIO**

**punker**

**GRUNDFOS**

**ROENEST GROUP**  
HEAT EXCHANGERS AND MORE

**KLINGENBURG**  
ENERGIERÜCKGEWINNUNG

**ZIEHL-ABEGG**

**twe group**  
smart nonwoven solutions

**S**

**SIEMENS**

**Schneider Electric**

**WILO**

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# THE STORY OF OUR SUCCESS

## 2021

- New vertical expander for faster production of heat exchangers.
- Launch of a new household series of installations.
- Affiliate program for clients.

## 2020

- Launch of the application for remote control over the installations.
- Rotary exhaust fan, welding robot.

**Number of manufactured: installations – 3354 pcs.  
air ducts – 518 029 m<sup>2</sup>**

## 2019

- Eurovent certificate.
- Additional painting chamber.

**Number of manufactured: installations – 2975 pcs.  
air ducts – 491 665 m<sup>2</sup>**

## 2018

- Opening of the second plant with an area of 7000 m<sup>2</sup>
- Launch of the 1st in Ukraine production of heat exchangers of general industrial purpose based on Italian equipment and Italian technologies.

**The production capacity of the enterprise is 180 units per month!**

## 2017

- Production of ventilation grilles and diffusers has been started.
- Expansion of production facilities.

**Number of manufactured air ducts – 372 399 m<sup>2</sup>**

- Production of ventilation grilles and diffusers has been started.
- Expansion of production facilities.
- A workshop for assembling of the household segment has been opened.
- «AEROSTAR POLAND» SP. ZO.O. – distributor of ventilation equipment.

## 2016

Global rebranding of the company. Start of refrigeration equipment production.

**Number of manufactured:**  
**- air ducts – 372 399 pcs**  
**- ventilation units – 1 854 pcs**

## 2015

Production capacity of the enterprise has been increased: ventilation units per year: 1 821 pcs.

## 2014

**“AEROSTAR KZ” LLP (REPUBLIC OF KAZAKHSTAN)** – distributor of ventilation equipment.

## 2013

- “AEROSVET” LLC, Republic of Belarus - distributor of ventilation equipment.

Increase in production capacity continues, purchase of 2 more machines (bending and punching) – 3680 m<sup>2</sup>.

## 2010

- “AEROSTAR” Trading House – distributor of ventilation equipment.
- Increase in production capacity, purchase of another bending machine “Amada”.

**Start of production of ventilation units - 1,200 m<sup>2</sup>**

**AEROSTAR**

## 2009

- “VENT-CONTROL” LLC – manufacturer of automation systems and BMS.
- Purchase of bending and punching machines «Amada» in amount of 2 pcs.
- Launch of the line for the production of duct equipment.

**VENTCONTROL**  
СИСТЕМИ АВТОМАТИЗАЦІЇ ТА КІМНАТНЕ ВЕНІЛЯЦІЇ

## 2008

**“VENT-SERVICE” LLC – a manufacturer of the air ducts – 360 m<sup>2</sup>**

**Ventservice**

## 2005

**“ASIS” LLC – a distributor of “Remark” equipment in Ukraine**

**ASys**

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# OUR EQUIPMENT

Aerostar company offers complex solutions from fans and air preparation units to efficient filters and from terminal devices and air-water systems to intelligent control components: our product line covers a full range of components, devices and systems for ventilation and air conditioning.



## AIR HANDLING UNITS

## REFRIGERATION EQUIPMENT

## AIR DISTRIBUTION DEVICES

## AUTOMATION SYSTEMS



The 1st line in Ukraine for production of heat exchangers of general industrial purpose

## SINCE 2020 WE ARE THE EXCLUSIVE PARTNER OF HITACHI

Welcome to the first showroom of HITACHI products in Ukraine on the territory of the AEROSTAR plant



Available product range: air conditioners, split systems, heat pumps, VRF systems



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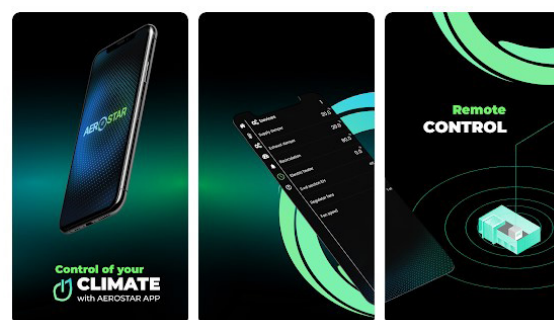
## USER-FRIENDLY MOBILE APPLICATION AEROSTAR APP

free application for remote control over climate equipment from a mobile phone.

**New product of the company, which helps to save time and resources.**

The application allows user to manage the settings from a mobile phone from any part of the world, see all the settings on one screen, instantly receive notifications of accidents, necessary reports, contact support service, etc.

Using the new application you can manage the settings without any special skills – a convenient and clear interface helps with it.



## THE MOST ADVANCED ON-LINE SELECTION PROGRAM “AEROSELECT” WITH .RFA FILE GENERATOR (REVIT ®)

AEROSELECT – a new approach to modeling HVAC

- ⊕ Access from any devices from any part of the world
- ⊕ User-friendly interface and simple configurator
- ⊕ ID-diagram of each unit
- ⊕ BIM-models for AutoDesk Revit \*

Simplified designing process of ventilation, refrigeration and BMS systems in any configuration and with any parameters.



Aeroselect selection software version 2.0.0.0 (27-09-2021)



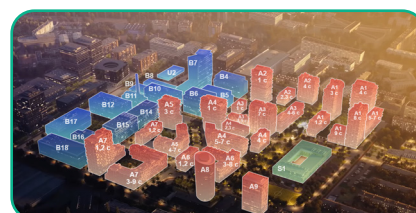
**Comprehensive offer in 15 minutes**

## SMART MANAGEMENT SYSTEMS FOR ENERGY EFFICIENCY INCREASE

For convenient control over engineering systems we use dispatch system. It helps to combine several systems into one: ventilation, air conditioning, heating, water supply and power supply, and to control and manage them from one control center.

**All this allows getting the maximum efficiency from the operation of the equipment and reduce energy consumption.**

Regardless of the engineering and technical complexity of design decisions, we implement projects at the highest level in compliance with all building norms of the laws.





CONVENIENCE OF USING THE EQUIPMENT

THANKS TO THE BUILT-IN AUTOMATION THE FOLLOWING FUNCTIONS ARE AVAILABLE:

- ⊕ control over the valves with servodrives, steam humidification and other available options;
- ⊕ smooth maintenance of the supply air temperature;
- ⊕ automatic restart of the installation after a power failure;
- ⊕ limiting the range of values of adjustable parameters that are set;
- ⊕ maintenance of the supply air temperature;
- ⊕ alarm system with failure display on smartphone or remote control panel (optional);
- ⊕ receiving a signal about the contamination of the filters;
- ⊕ free-cooling – technology of cooling the room by means of environment without the use of compressors and other energy-intensive equipment.



AEROSTAR APP – control over climate equipment with smartphone

THIS MAKE IT POSSIBLE TO:

- ⊕ control the parameter of equipment operation;
- ⊕ manage the settings;
- ⊕ contact the service support of AEROSTAR at any time 24/7;
- ⊕ check all the settings on one screen;
- ⊕ set individual schedule;
- ⊕ receive instant notifications of accidents or emergencies.

The units are often installed in hard-to-reach ventilation chambers. The application allows quick changing of the settings and is not somehow tied to a geographic location: it is possible to control the operation of the installation, both from a neighboring room and from anywhere in the world, which is especially important in case of force majeure.



FOR **IOS** DEVICES



FOR **ANDROID** DEVICES

With the Aerostar App, you can control the equipment on your own, without special knowledge.



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Participant: Vent-Service LTD.  
Commercial range name: GreenStr.  
Aeroselect selection software version 2.0.0.0 (27-09-2021)  
Certificate number: 19.04.077  
[www.eurovent-certification.com](http://www.eurovent-certification.com)

# GreenSTR

Multifunctional air handling unit

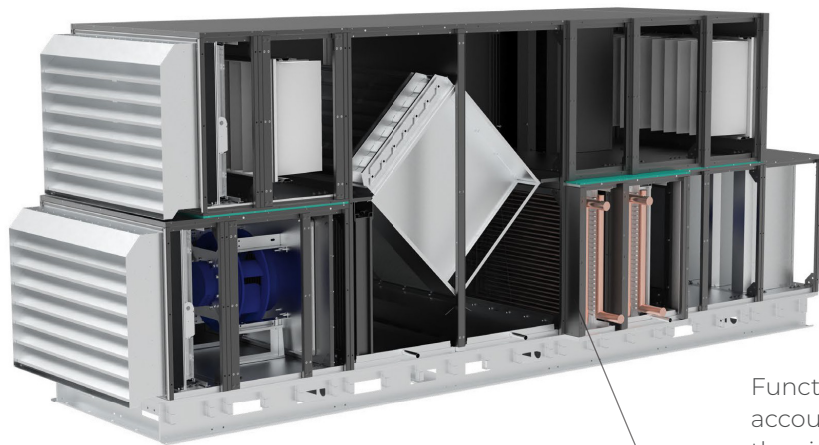
**CAPACITY: from 1 500 m<sup>3</sup>/hour up to 25 000 m<sup>3</sup>/h**



[click here](#)







## AREA OF USAGE:

for facilities of various assignments, including medical institutions and other premises with high requirements for cleanliness conditions.



[click here](#)

Functional units are designed taking into account all the necessary parameters: the size of the mounting and construction slots that highly simplifies the process of assembling of ventilation units on the site.

## ADVANTAGES

### Resources savings 88%:



#### 80% RECUPERATORS

Reduce of energy consumption up to 80% and ensure the protection of environment.



#### 5% EC-MOTORS

Energy efficient EC-motors allow reducing of operating costs at least for 5%.



#### 3% IMPELLERS

Improved backward-bladed fans:

- increase the efficiency;
- reduce the energy consumption by 3%;
- minimize the noise level.



Automation system is developed individually for each particular unit. Allows controlling the parameters of the equipment with maximum efficiency.



High-accuracy designing and exclusive selection program AeroSelect.



The units are equipped with a number of energy-saving technologies that allow users to gain the maximum efficiency at the minimum resource costs.



Minimum manufacturing time of equipment.



Medical modification of unit is possible.



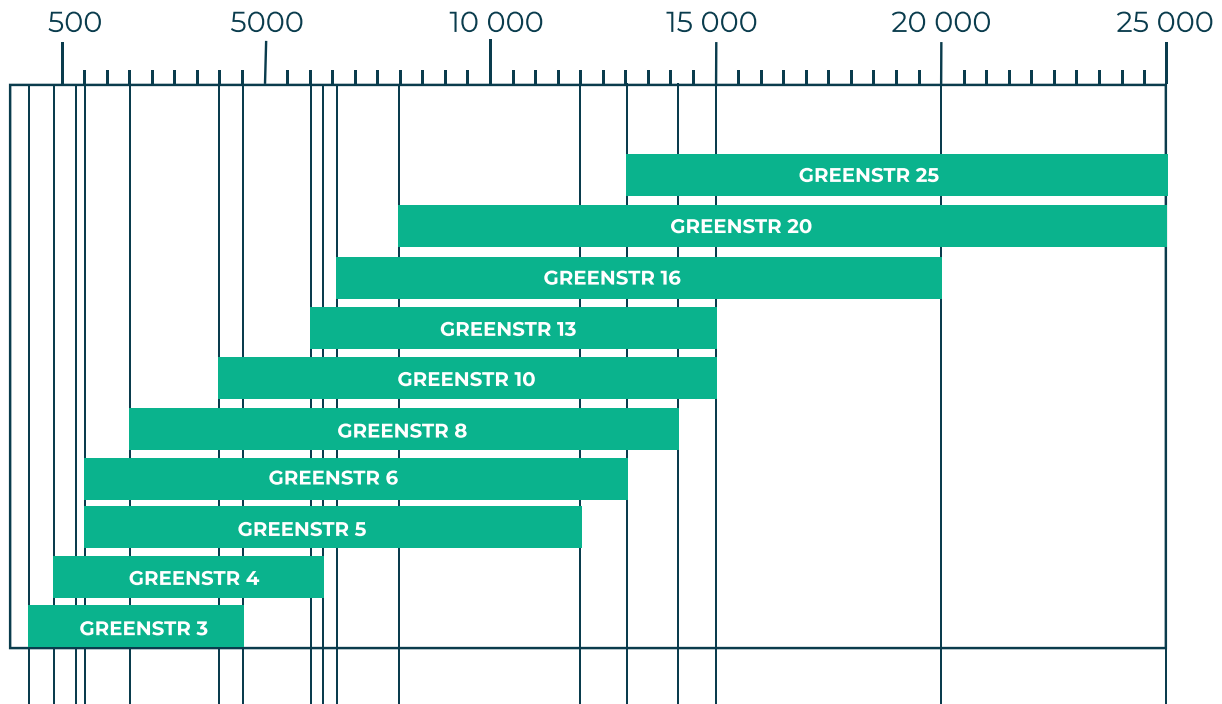
Non-standard solutions for the premises of all types.

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The standard model range is presented in 10 standard sizes

Air consumption

m<sup>3</sup>/h



## BASIC CONFIGURATION

### ANTI-CORROSION COATING

Metal with high zinc content and extra-strong anti-corrosion coating allow installation of equipment inside and outside the buildings of all types.

In case of outside installation the units are equipped with an air intake covers, protective deflectors and roof. In this case the air valves and automatic equipment are mounted inside.



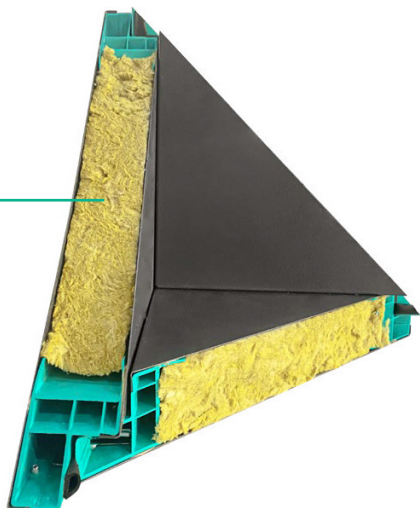


## SANDWICH PANELS

provide increased structural strength, heat and sound insulation.

Thickness – 50 mm

Filling compound – mineral wool with a density 50 kg/m<sup>3</sup>



- ⊕ Minimization of heat losses
- ⊕ Air valve of increased tightness (with a function of heating)
- ⊕ Minimal energy losses per square meter of surface
- ⊕ PVC profiles are armed with a reinforced insert
- ⊕ increased mechanical strength

## INNOVATIVE CASE MADE OF PVC-PROFILE

- ⊕ Powder epoxidized coating on the outside and inside surfaces of the case
- ⊕ Simple and tight interconnection of the sections
- ⊕ Reduced weight of the unit
- ⊕ Reduced production time
- ⊕ Sandwich panels with thickness 50 mm made of rock wool (from molten erupted rocks) with a density of 50 kg/m<sup>3</sup>



## ITALIAN ACCESORIES

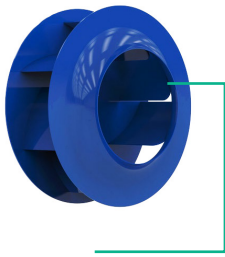
The unit is equipped with high-quality ergonomic Italian accessories: locks, handles, hinges.

The doors can be opened in either direction or can be removed.

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## FAN GROUP WITH DIRECT DRIVE

Impeller is mounted on the electric motor shaft that **highly increases efficiency of the fan.**



### IMPELER

- ⊕ Welded steel construction
- ⊕ 7 bent back blades
- ⊕ Quality balancing G2.5

Static pressure up to 2500 Pa  
Static efficiency up to 73%



### IMPELLER FOR EC-MOTOR

- ⊕ ZAmid – high-quality composite material
- ⊕ 3D blades in the form of water drops
- ⊕ airfoil blade
- ⊕ low noise level

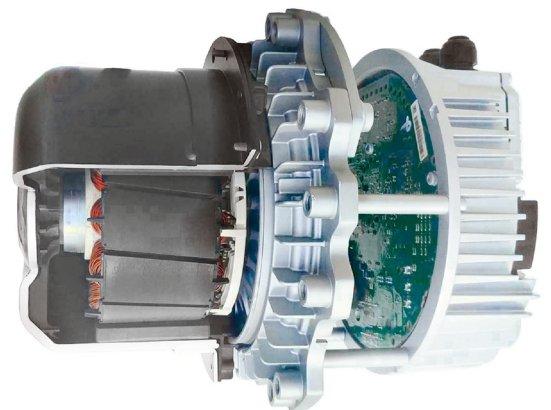
Static pressure up to 2500 Pa  
Static efficiency up to 75%  
Air consumption: up to 25 000 m³/h

### AC-MOTOR

Is placed on a vibration-resistant frame separated from the body of the unit. Perfectly adjusted to the aerodynamics of the ventilation network, it is possible to adjust the parameters if necessary.

Energy efficiency classes: IE1, IE2, IE3  
Protection class: IP 55

Equipped with a frequency converter that enables quick reach of the set point.



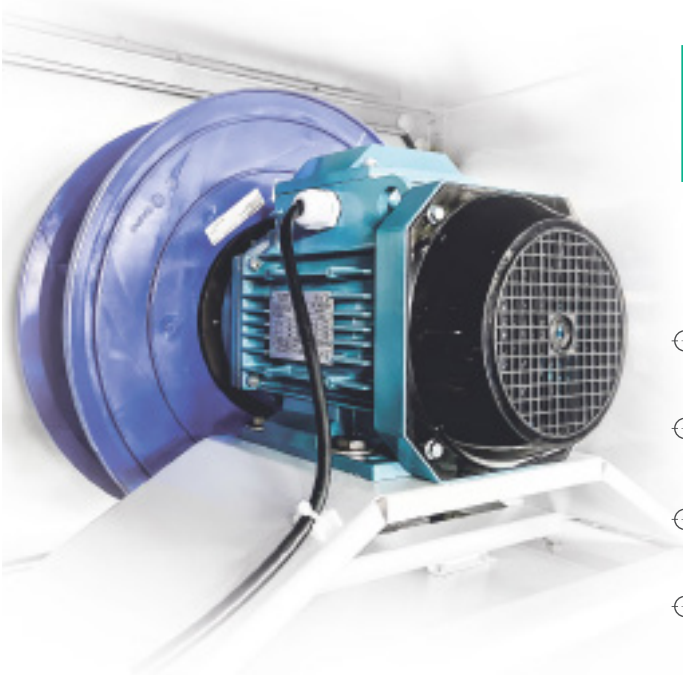
### EC-MOTOR

Brushless synchronous motor with electronic control highly reduces noise level.

High working pressure: up to 2500 Pa  
Wide range of nominal voltage: 200-277V and 380-480 V ±15%  
Long service life: more than 80000 of continuous work

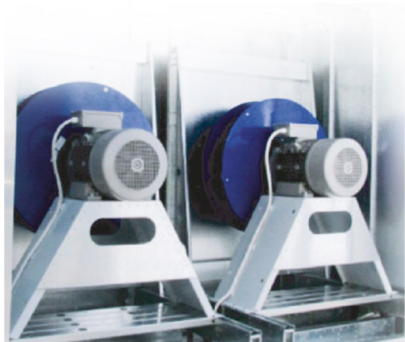
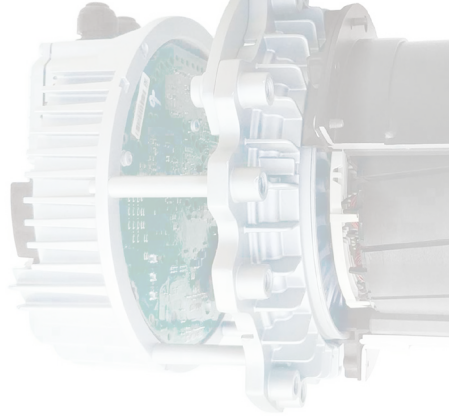
### EC-ELECTRIC MOTOR WITH EFFICIENCY HIGHER 90%

- ⊕ Saves at least 30% more electricity than an AC motor. Complies with the ErP 2015 directive
- ⊕ Built-in EMC filter protects against phase loss and low voltage in the network
- ⊕ Protection against overheating of the motor and electronics, and protection against rotor lock
- ⊕ No starting currents



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- ⊕ No service needed
  - ⊕ The absence of the frequency converter saves installation space
  - ⊕ Allows reduction of the fan capacity up to 10%
  - ⊕ EC-motor optionally has MODBUS RTU protocol
- Option. Application of the **Flow Grid** technology: air flow rectifier



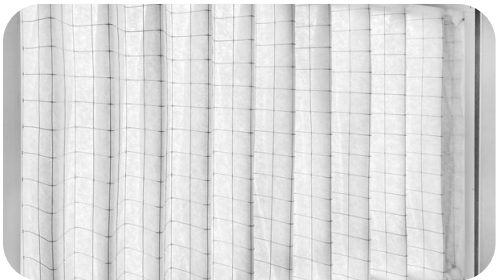
### DUAL FAN

- ⊕ Dual fan system. This configuration **is 50% more reliable than a system with one powerful fan**
- ⊕ Occupies less space

### MODULAR FILTERS

Filtration classes ISO 16890: Coarse ( $0,3 \leq x \leq 10$ ), ePM10 ( $0,3 \leq x \leq 10$ ), ePM2,5 ( $0,3 \leq x \leq 2,5$ ), ePM1 ( $0,3 \leq x \leq 1$ ).  
**Prevent the migration of dust particles through the filter material.**

Filter groups	Particle size (micron)	Classification criteria
ISO Coarse	$0,3 \leq x \leq 10$	Average efficiency $< 50\%$
ISO ePM10	$0,3 \leq x \leq 10$	Average efficiency $\geq 50\%$
ISO ePM2,5	$0,3 \leq x \leq 2,5$	Minimum efficiency $\geq 50\%$
ISO ePM1	$0,3 \leq x \leq 1$	Minimum efficiency $\geq 50\%$



### CASSETTE FILTER

- ⊕ Durable galvanized metal frame
- ⊕ The filter material is fixed on the mesh
- ⊕ Made of polyester fibres

Filtration class acc. to ISO 16890: Coarse.  
 Working environment temperature: up to 80°C  
 Humidity of the working environment:  $\leq 100\%$



### POCKET FILTER

The pocket design **guarantees the increase of filtration area** and provides maximum efficiency. Made of a durable painted metal frame.

Filter material: polyester / micro-fibreglass  
 Filtration class acc. to ISO 16890: Coarse. ePM10  
 ePM2.5. ePM1  
 Working environment temperature: up to 80°C  
 Humidity of the working environment:  $\leq 100\%$

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## RECUPERATOR

The recuperation system allows reusing of the energy of the exhaust air from the room to heat up and cool down the air from the outside.

The usage of recuperator gives an opportunity **to reduce the total energy consumption by 80%**, which is especially important considering the rapid increases of energy prices.



### ROTOR RECUPERATOR

In rotary recuperators, heat transfer from the exhaust air to the supply air is carried out by means of a movable matrix with different types of coatings. The matrix of the rotary recuperator consists of two layers of aluminium foil, smooth and corrugated, alternately applied to each other. The recuperation efficiency will vary depending on the height of the corrugated tape, as well as the rotation speed of the wheel.

Reduction of heat exchange areas and speed of rotation in 10 rpm allows reducing energy consumption by 80%.

**Foil thickness:** from 1,4 to 1,8 mm.

**Wave height of the foil:** from 1,6 to 2,5 mm

**Efficiency:** up to 88% depending on the type, size and operating parameters



### COUNTER-FLOW RECUPERATOR

Counter-flow movement of an air stream provides high productivity at low expenses of pressure on all surface of air distribution.

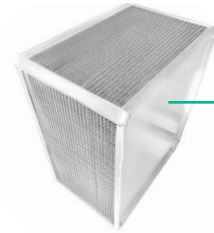
Five different device sizes with air volume up to 1300 m<sup>3</sup>/h in one unit.

The use of aluminum resistant to sea water impact. Accurate factory production. Precise execution - perfectly smooth surfaces.

Provides tightness of air conditioning systems.

The heat exchanger is made without usage of screws and rivets.

High strength. Frost resistance. Resistant to overheating. No possibility of leakage of hazardous fumes in case of fire.



### CROSS-FLOW RECUPERATOR

Thanks to the plate heat exchangers, two air streams, a warm exhaust air stream and a cold supply air stream, pass next to each other through thin plates without any contact.

Energy exchange occurs on the surface of the heat exchanger plates. At the same time there is no mixing of two air streams.

**Efficiency:** up to 85%, depending on the type, size and operating parameters

⊕ Corrosion-resistant aluminium foil coated with epoxide resin

⊕ Strong connection of plates thanks to double folding, pressure stability thanks to five-fold thickness of material

**Plate structure:** embossed plates, distance between plates from 3,8 to 11,5 mm

**Air productivity:** up to 25 000 m<sup>3</sup>/h

Epoxy coated device designed for use in indoor pools or in household outbuildings. The scope of supply includes the air valve of the bypass channel.

The plates form a sealed housing due to the diffusion of the adhesive sealant, so the device is characterized by:

- high tightness;

- hygienic use due to complete drainage of condensate.

Up to 90% efficiency is guaranteed by patented technology. Perfect geometrical arrangement of the plates connected by double-edge technology.

Low pressure loss due to computer modeling.

100% of the products are checked for leak tightness.

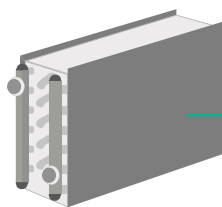
Eurovent, RLT and AHRI certification.

Bypass installation is possible.

COMBI solution.

Epoxy version.

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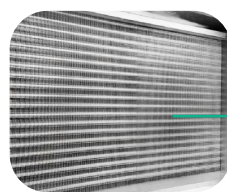
## GLYCOL RECUPERATOR

Consists of two **heat exchangers**: one in the exhaust air flow, the other one in the supply air flow.

**The main advantage of this recuperator is** the possibility of its application in case of air streams are at a distance from each other.

Usage in systems where NON-mixing of air streams is of high priority.

The heat exchanger located in the stream of exhaust air takes away thermal energy and transfers it with the help of circulating thermal medium: a solution of water and glycol, of the heat exchanger mounted in a stream of supply air.



## HEAT EXCHANGER

Suitable for thermal mediums of any types: freon, steam, water, glycol solution.

### Basic configuration

Slat block:

- corrugated surface;
- internal notches, arranged in a chessboard order;
- number of tubes rows: 1-12;
- distance between the ribs: 1,6-5,0 mm;
- thickness of plates: 0,1-0,19 mm.

Maximum working pressure: 20 atm

Copper pipes: diameter - 9,52 mm

wall thickness – 0,27 mm / 0,33 mm

Collector made of copper or steel pipes

Slats: Al OR Alepoxy

## ADDITIONAL OPTIONS



### NON-STANDARD DESIGNING

Allows adaptating to any parameters and solve the problems of different levels of engineering complexity.



### POSSIBILITY OF INSTALLATION OF THE HEAT PUMP of any complexity level:

- heating of supply air;
- cooling of supply air;
- heating / cooling of supply air by means of the energy-efficient heat pump working on ozone-safe freon R410a.



### INSPECTION WINDOWS

Allow inspecting the unit without opening the door.



### PAINTING IN ANY COLOUR OF THE RAL PALETTE

**Different types of controllers are adapted to the solution of any problem and perform the control over:**

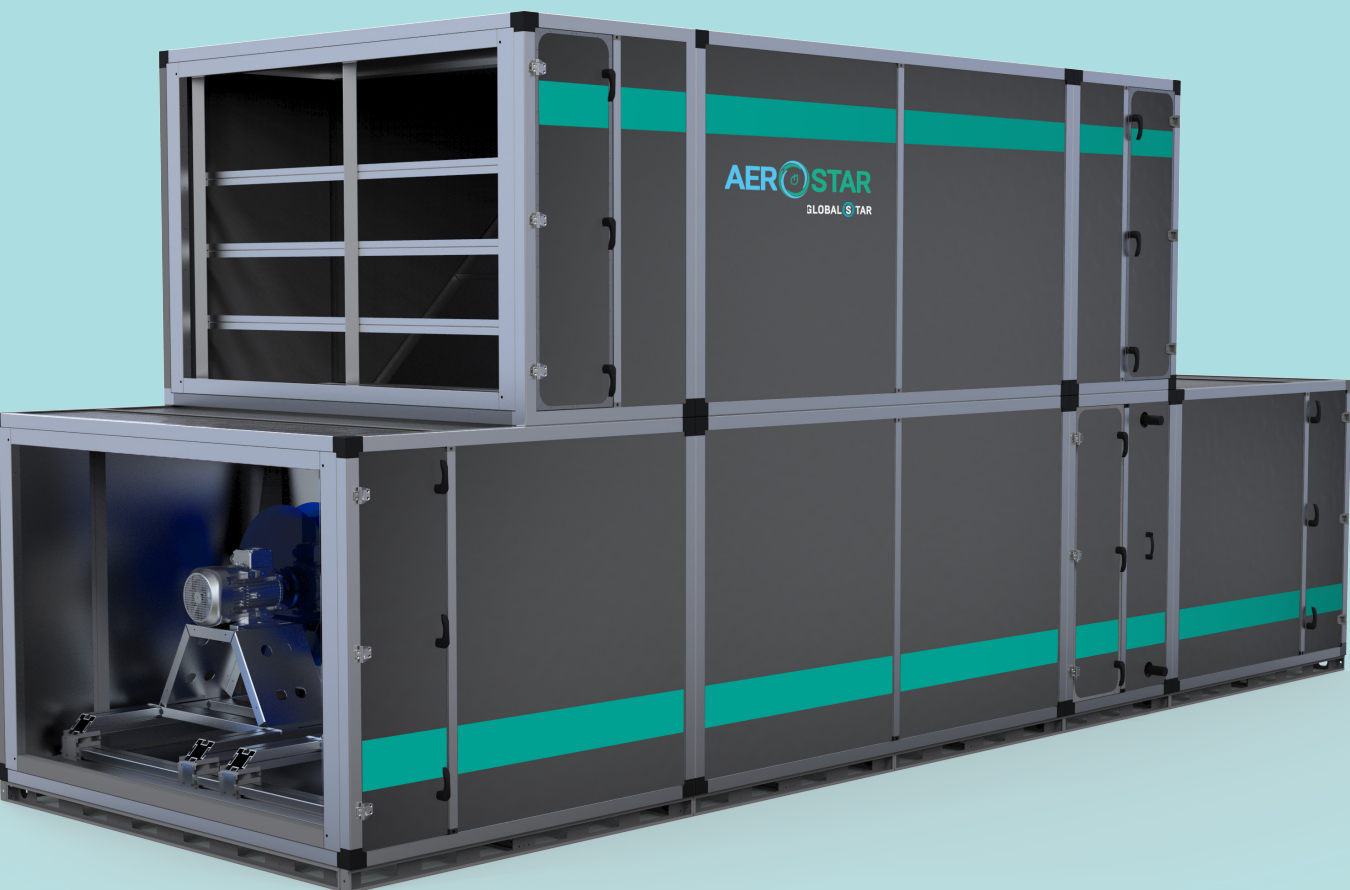
- fan;
- electric heater / water heater;
- water cooler;
- compressor air and condensate unit;
- humidifier;
- air mixing chamber;
- glycol or rotary recuperator.

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# GlobalStar

Multifunctional air handling unit

**CAPACITY: from 25 000 m<sup>3</sup>/h up to 120 000 m<sup>3</sup>/h**





## AREA OF USAGE:

for facilities of various assignments, including medical institutions and other premises with high requirements for cleanliness conditions.

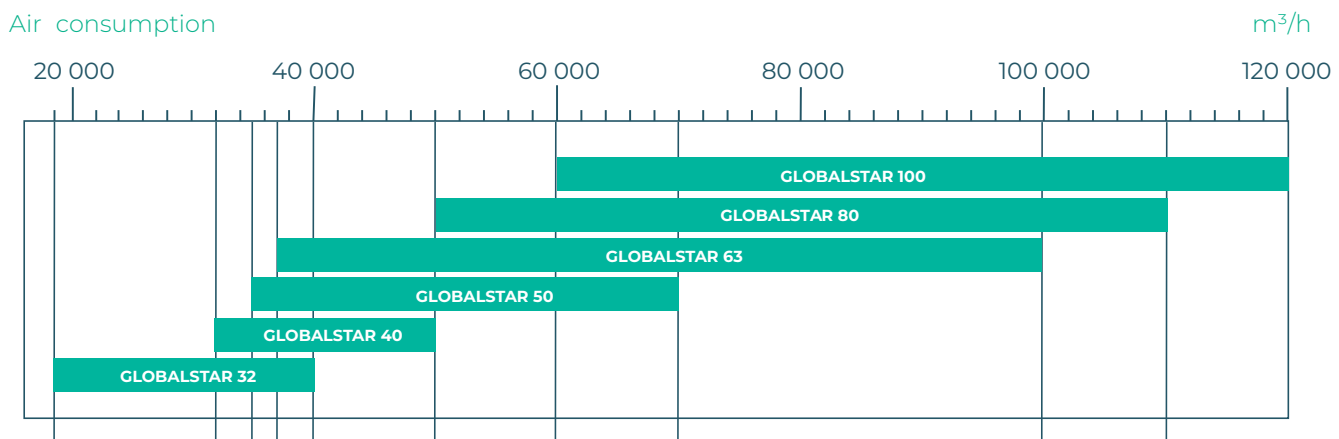
## MODULAR DESIGN

Functional units are designed taking into account all the necessary parameters: the size of the mounting and construction slots that highly simplifies the process of assembling of ventilation units on the site.



Filled up with a high-efficiency refrigerant R410A at the manufacturing plant that ensures their environmental safety and energy efficiency.

The standard model range is presented in 6 standard sizes:



## ADVANTAGES:



Automation system is developed individually for each particular unit. Allows controlling the parameters of the equipment with maximum efficiency.



High-accuracy designing and exclusive selection program AeroSelect.



The units are equipped with a number of energy-saving technologies that allow users to gain the maximum efficiency at the minimum resource costs.



Minimum manufacturing time of equipment.



Medical modification of unit is possible.



Non-standard solutions for the premises of all types.

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### ANTI-CORROSION COATING

Metal with high zinc content and extra-strong anti-corrosion coating allow installation of equipment inside and outside the buildings of all types.

- In case of outside installation the units are equipped with an air intake covers, protective deflectors and roof. In this case the air valves and automatic equipment are mounted inside.

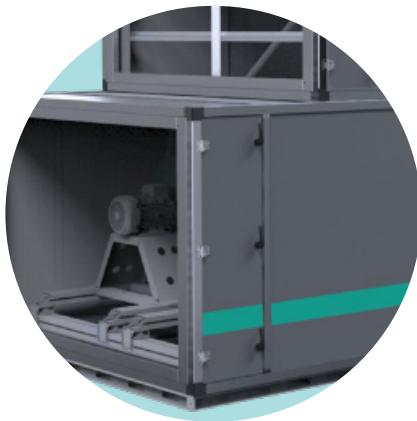


### SANDWICH PANELS

provide increased structural strength, heat and sound insulation.

Thickness – 45 mm.

Filling compound – polyurethane foam, mineral wool.



### INNOVATIVE PROFILED CASE

The rigid profile strengthens construction of the unit and simplifies its assembly.

- Strong hermetic corner elements prevent the occurrence of heat bridges, as well as guarantee the accuracy of sections connection and allow assembly directly on the site.

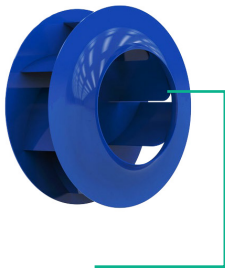
### ITALIAN ACCESORIES

The unit is equipped with high-quality ergonomic Italian accessories: locks, handles, hinges.

The doors can be opened in either direction or can be removed.

FAN GROUP WITH DIRECT DRIVE

Impeller is mounted on the electric motor shaft that highly increases efficiency of the fan.



IMPELER

- ⊕ Welded steel construction
- ⊕ 7 bent back blades
- ⊕ Quality balancing G2.5

Static pressure up to 2500 Pa  
Static efficiency up to 73%

AC-MOTOR

Is placed on a vibration-resistant frame separated from the body of the unit. Perfectly adjusted to the aerodynamics of the ventilation network, it is possible to adjust the parameters if necessary.

Energy efficiency classes: IE1, IE2, IE3  
Protection class: IP 55

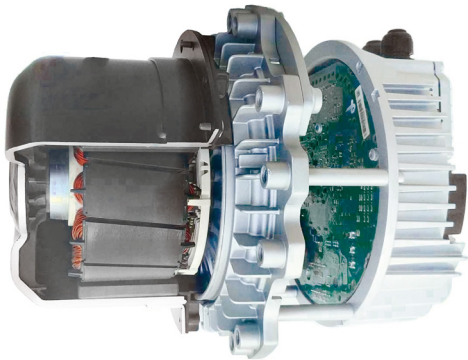
Equipped with a frequency converter that enables quick reach of the set point.



IMPELLER FOR EC-MOTOR

- ⊕ ZAmid – high-quality composite material
- ⊕ 3D blades in the form of water drops
- ⊕ Airfoil blade
- ⊕ Low noise level

Static pressure up to 2500 Pa  
Static efficiency up to 75%  
Air consumption: up to 25 000 m³/h



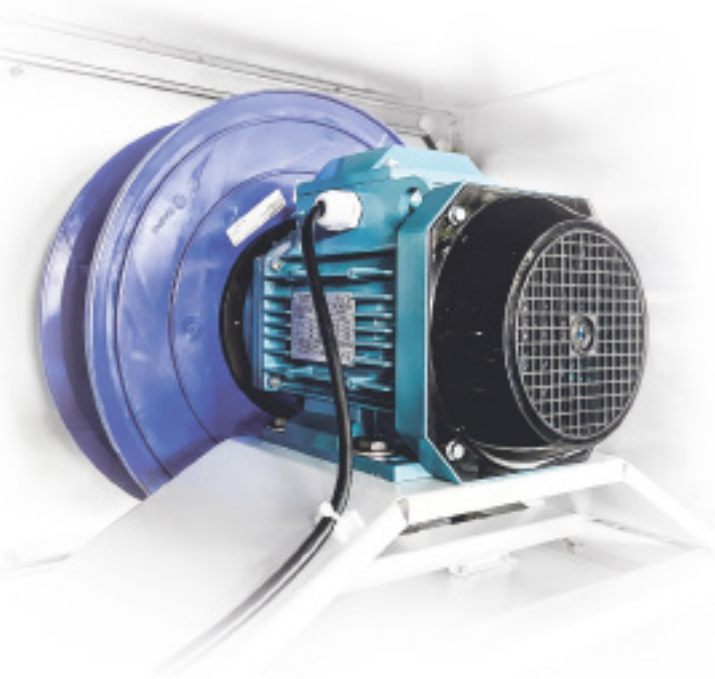
EC-MOTOR

Brushless synchronous motor with electronic control highly reduces noise level.

High working pressure: up to 2500 Pa  
Wide range of nominal voltage: 200-277V and 380-480 V ±15%  
Long service life: more than 80000 of continuous work

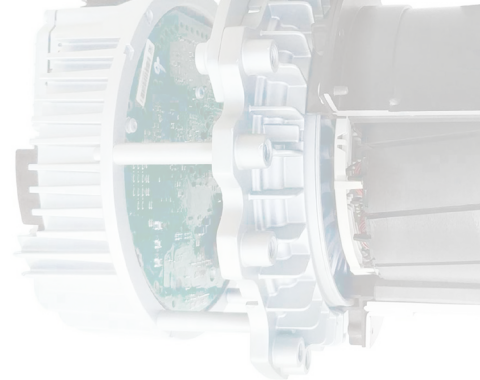
EC-ELECTRIC MOTOR WITH EFFICIENCY HIGHER 90%

- ⊕ Saves at least 30% more electricity than an AC motor. Complies with the ErP 2015 directive
- ⊕ Built-in EMC filter protects against phase loss and low voltage in the network
- ⊕ Protection against overheating of the motor and electronics, and protection against rotor lock
- ⊕ No starting currents



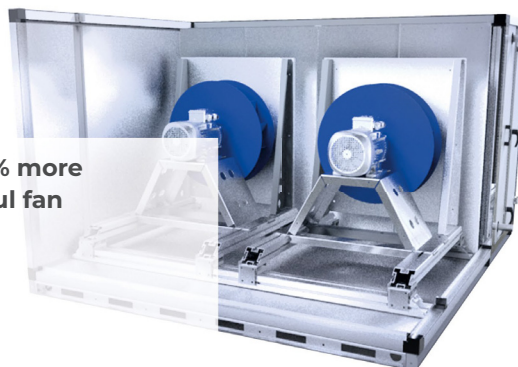
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- ⊕ No service needed
  - ⊕ The absence of the frequency converter saves installation space
  - ⊕ Allows reduction of the fan capacity up to 10%
  - ⊕ EC-motor optionally has MODBUS RTU protocol
- | **Option.** Application of the **Flow Grid** technology: air flow rectifier



## DUAL FAN

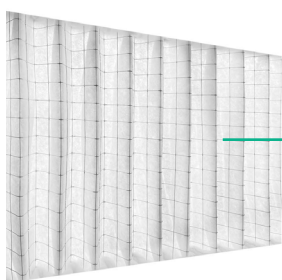
- ⊕ Dual fan system. This configuration is **50% more reliable than a system with one powerful fan**
- ⊕ Occupies less space



## MODULAR FILTERS

Filtration classes ISO 16890: Coarse ( $0,3 \leq x \leq 10$ ), ePM10 ( $0,3 \leq x \leq 10$ ), ePM2,5 ( $0,3 \leq x \leq 2,5$ ), ePM1 ( $0,3 \leq x \leq 1$ ).  
**Prevent the migration of dust particles through the filter material.**

Filter groups	Particle size (micron)	Classification criteria
ISO Coarse	$0.3 \leq x \leq 10$	Average efficiency < 50%
ISO ePM10	$0.3 \leq x \leq 10$	Average efficiency $\geq 50\%$
ISO ePM2,5	$0.3 \leq x \leq 2,5$	Minimum efficiency $\geq 50\%$
ISO ePM1	$0.3 \leq x \leq 1$	Minimum efficiency $\geq 50\%$



## CASSETTE FILTER

- ⊕ Durable galvanized metal frame
- ⊕ The filter material is fixed on the mesh
- ⊕ Made of polyester fibres

Filtration class acc. to ISO 16890: Coarse  
 Working environment temperature: up to 80°C  
 Humidity of the working environment:  $\leq 100\%$



## POCKET FILTER

The pocket design **guarantees the increase of filtration area** and provides maximum efficiency. Made of a durable painted metal frame.

Filter material: polyester / micro-fibreglass  
 Filtration class acc. to ISO 16890: Coarse. ePM10. ePM2.5. ePM1  
 Working environment temperature: up to 80°C  
 Humidity of the working environment:  $\leq 100\%$

RECUPERATOR

The recuperation system allows reusing of the energy of the exhaust air from the room to heat up and cool down the air from the outside.  
The usage of recuperator gives an opportunity **to reduce the total energy consumption by 80%**, which is especially important considering the rapid increases of energy prices.

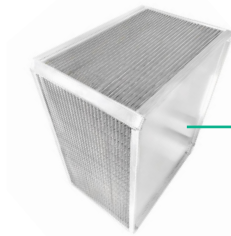


ROTOR RECUPERATOR

In rotary recuperators, heat transfer from the exhaust air to the supply air is carried out by means of a movable matrix with different types of coatings. The matrix of the rotary recuperator consists of two layers of aluminium foil, smooth and corrugated, alternately applied to each other. The recuperation efficiency will vary depending on the height of the corrugated tape, as well as the rotation speed of the wheel.

Reduction of heat exchange areas and speed of rotation in 10 rpm allows reducing energy consumption by 80%.

- Foil thickness: from 1,4 to 1,8 mm
- Wave height of the foil: from 1,6 to 2,5 mm
- Efficiency: up to 88% depending on the type, size and operating parameters
- Air productivity: from 25 000 up to 120 000 m³/h



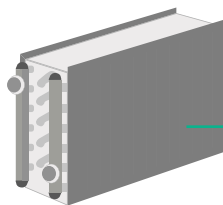
CROSS-FLOW RECUPERATOR

Thanks to the plate heat exchangers, two air streams, a warm exhaust air stream and a cold supply air stream, pass next to each other through thin plates without any contact.  
Energy exchange occurs on the surface of the heat exchanger plates. At the same time there is no mixing of two air streams.

- Efficiency: up to 85%, depending on the type, size and operating parameters
- Corrosion-resistant aluminium foil coated with epoxide resin
- Strong connection of plates thanks to double folding, pressure stability thanks to five-fold thickness of material
- Plate structure: embossed plates, distance between plates from 3,8 to 11,5 mm
- Air productivity: up to 25 000 m³/h

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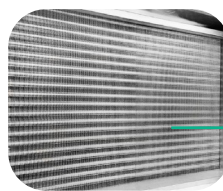
## GLYCOL RECUPERATOR

Consists of two **heat exchangers**: one in the exhaust air flow, the other one in the supply air flow.

The **main advantage of this recuperator** is the possibility of its application in case of air streams are at a distance from each other.

Usage in systems where NON-mixing of air streams is of high priority.

The heat exchanger located in the stream of exhaust air takes away thermal energy and transfers it with the help of circulating thermal medium: a solution of water and glycol, of the heat exchanger mounted in a stream of supply air.



## HEAT EXCHANGER

Suitable for thermal mediums of any types: freon, steam, water, glycol solution.

### BASIC CONFIGURATION

Slat block:

- corrugated surface;
- internal notches, arranged in a chessboard order;
- number of tubes rows: 1-12;
- distance between the ribs: 1,6-5,0 mm;
- thickness of plates: 0,1-0,19 mm.

Maximum working pressure: 20 atm

Copper pipes: diameter - 9,52 mm

wall thickness - 0,27 mm / 0,33 mm

Collector made of copper or steel pipes

Slats: Al OR Alepox

## ADDITIONAL OPTIONS



### NON-STANDARD DESIGNING

Allows adapting to any parameters and solve the problems of different levels of engineering complexity



### POSSIBILITY OF INSTALLATION OF THE HEAT PUMP of any complexity level:

- heating of supply air;
- cooling of supply air;
- heating / cooling of supply air by means of the energy-efficient heat pump working on ozone-safe freon R410a.



### INSPECTION WINDOWS

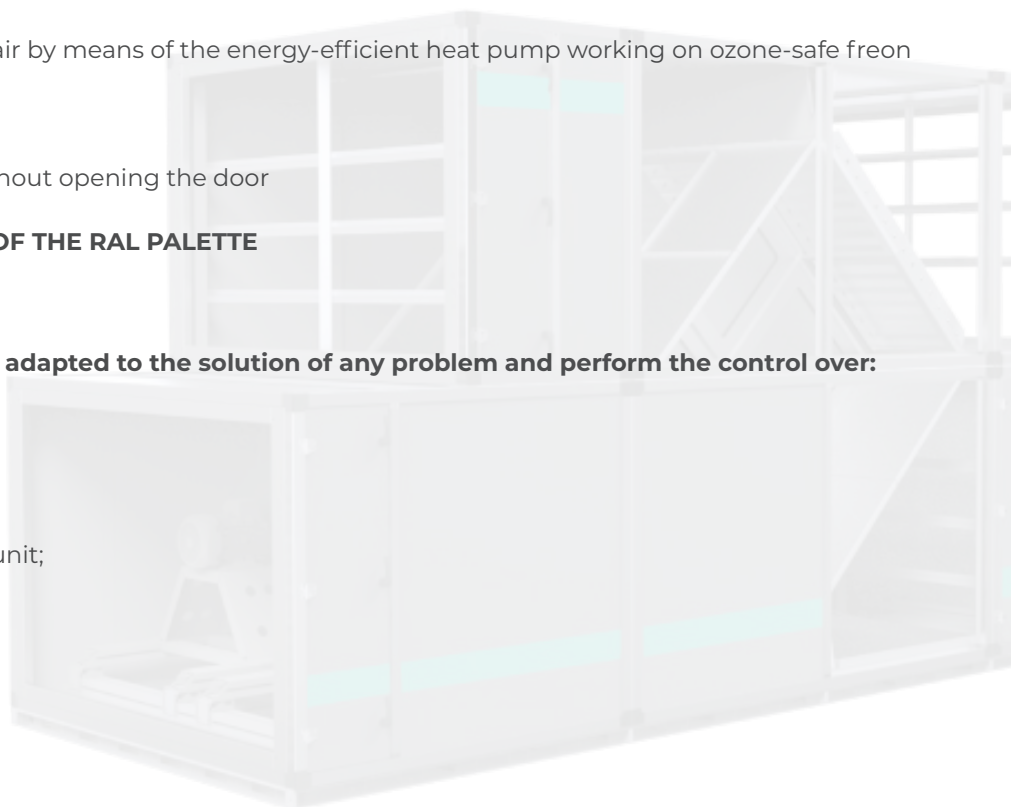
Allow inspecting the unit without opening the door



### PAINTING IN ANY COLOUR OF THE RAL PALETTE

**Different types of controllers are adapted to the solution of any problem and perform the control over:**

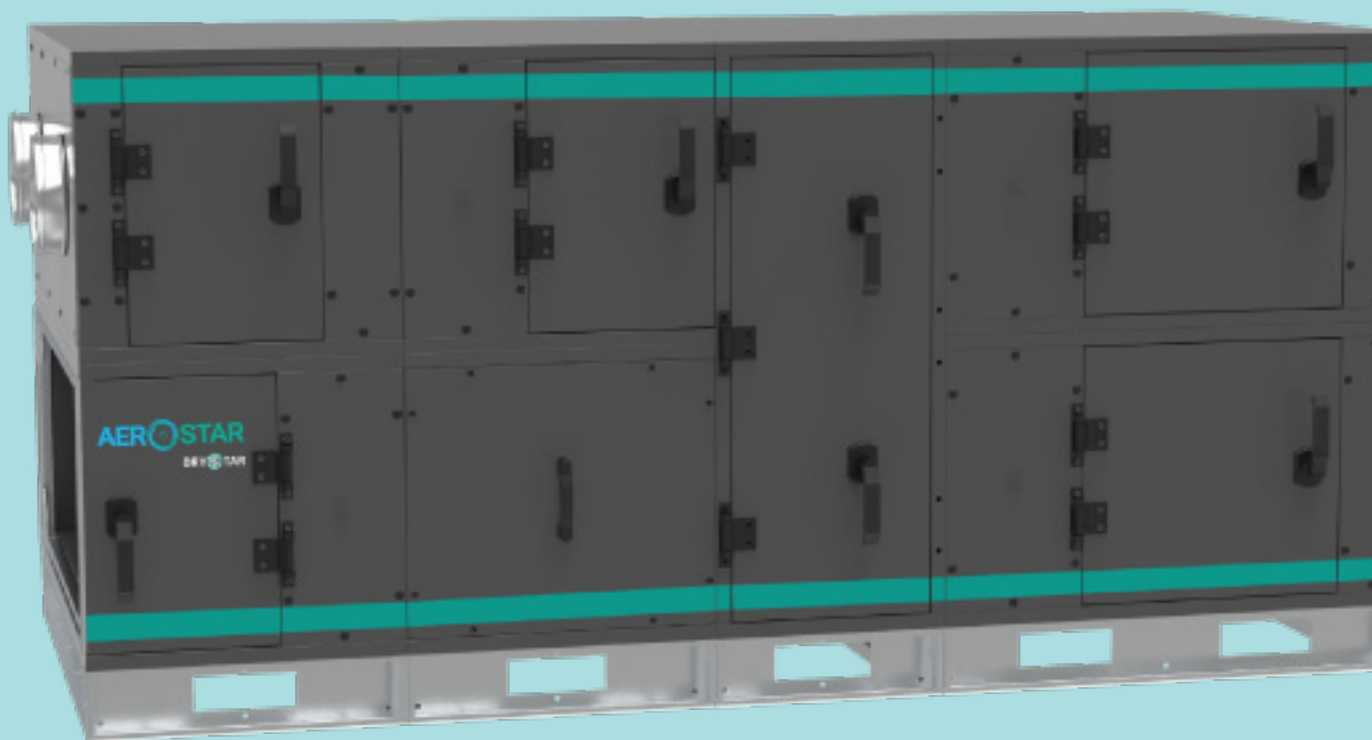
- fan;
- electric heater / water heater;
- water cooler;
- compressor air and condensate unit;
- humidifier;
- air mixing chamber;
- glycol or rotary recuperator.



# DryStar

Adsorption rotary air dryer

**CAPACITY: from 1 000 m<sup>3</sup>/h up to 8 000 m<sup>3</sup>/h**



**Increased moisture level causes the rapid growth of bacteria and mould. That is why moisture damages and destroys buildings, spoils different things, and is harmful for people's health.**

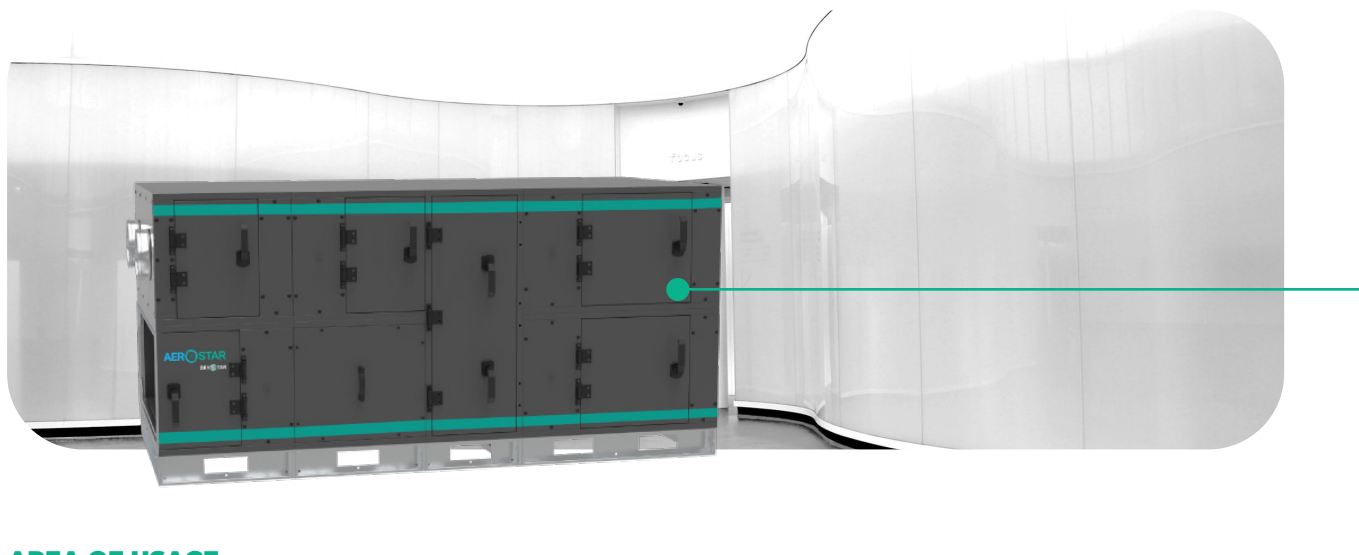
According to researches, a person feels best at a relative humidity in the range **from 40% to 60%**.

In such conditions, the body most effectively fights against airborne spread infections.

**Excessive water vapour content negatively affects** the operation of residential buildings, comfort and well-being of people living in them.

**Increased humidity causes irreparable damage** to production facilities, public buildings, retail spaces and warehouse terminals, cultural and entertainment facilities.





## AREA OF USAGE

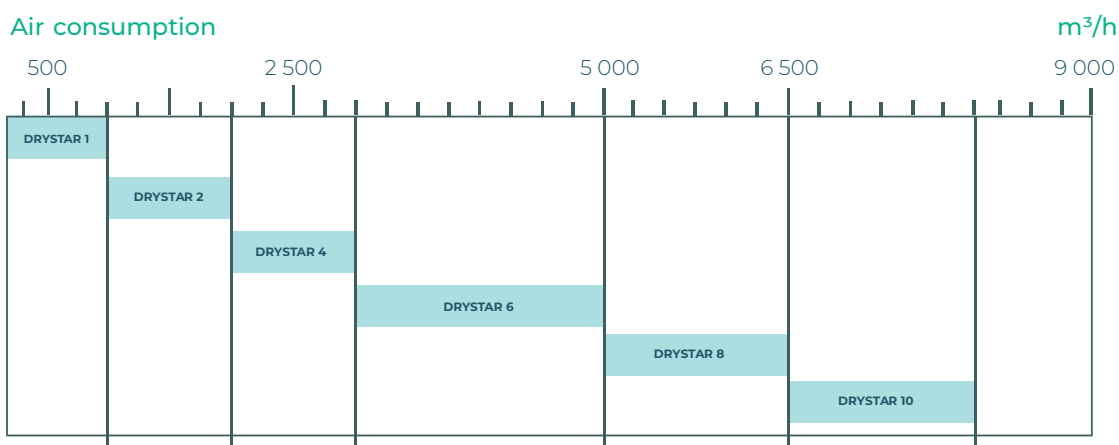
ice arenas, food industry, pharmacy, warehouses, museums, medicine.

Can be used both independently (indoors or outdoors), and in a complex with air-processing system.

- ⊗ Dehumidifiers reduce humidity without changing the temperature
- ⊗ Support the creation of normatively necessary conditions for people who are indoors
- ⊗ Control and maintain the required relative humidity for production technology in industrial buildings
- ⊗ Protect from corrosion, provide electrical and environmental safety
- ⊗ Reduce the humidity level to remove the load and increase the service life of refrigeration units
- ⊗ The air is dried, preventing the formation of ice in refrigerators and freezers, transitional vestibules
- ⊗ Intensively remove moisture after natural disasters, floods or waterfloods
- ⊗ Dry the objects during building on the stages of finishing, concrete or repair works
- ⊗ Remove the evaporations from the pool mirrors, preventing formation and dropout of condensate on equipment and surfaces
- ⊗ Carry out dehumidification during complex air treatment

💡 Optionally: the unit can be equipped with sensors of air moisture

**Standard model range is presented with 6 standard sizes**





## ADVANTAGES



Controls humidity level, prevents condensation and, as a result, prevents the formation of mould and bacteria growing, protects against corrosion.



Supports long-term storage of hygroscopic materials and bulk substances.



Unique sealed reinforced case.



Equipped with a sorption rotor with ultra-high capacity to absorb the moisture.



Convenient maintenance of the unit due to the improved design.



Easily integrated into the scheduling system of the facility.

## DIMENSIONS OF THE UNIT

Model	Rated consumption, m³/h	Static pressure	Rated consumption, m³/h	Static pressure	Reactivation air humidity	Power consumption
	Supply air		Reactivation air			
DryStar-1	1000	250	250	250	20°C/50%	11,8
DryStar-2	2000	250	500	250		14,2
DryStar-4	3000	250	750	250		27,3
DryStar-6	5000	250	1250	250		50,1
DryStar-8	6500	250	1625	250		69,9
DryStar-10	8000	250	2000	250		84,5

Model	Power supply	Filter type	Level of sound pressure (LW in the surrounding area)	Dehumidification, kg/h	Dimensions (W*H*L), mm	Weight, kg
DryStar-1	230/1/50	G4	38	6,3	11,8	603
DryStar-2	230/1/50	G4	39	13	14,2	603
DryStar-4	230/1/50	G4	39	19,8	27,3	701
DryStar-6	400/3/50	G4	55	33,4	50,1	1312
DryStar-8	400/3/50	G4	55	42,4	69,9	1312
DryStar-10	400/3/50	G4	48	50,8	84,5	1043

BASIC CONFIGURATION

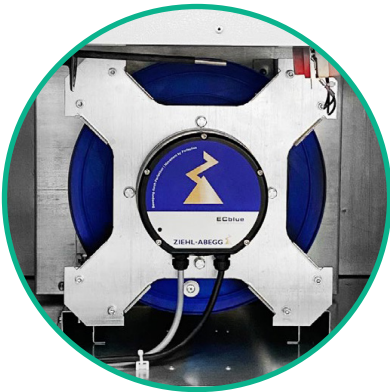
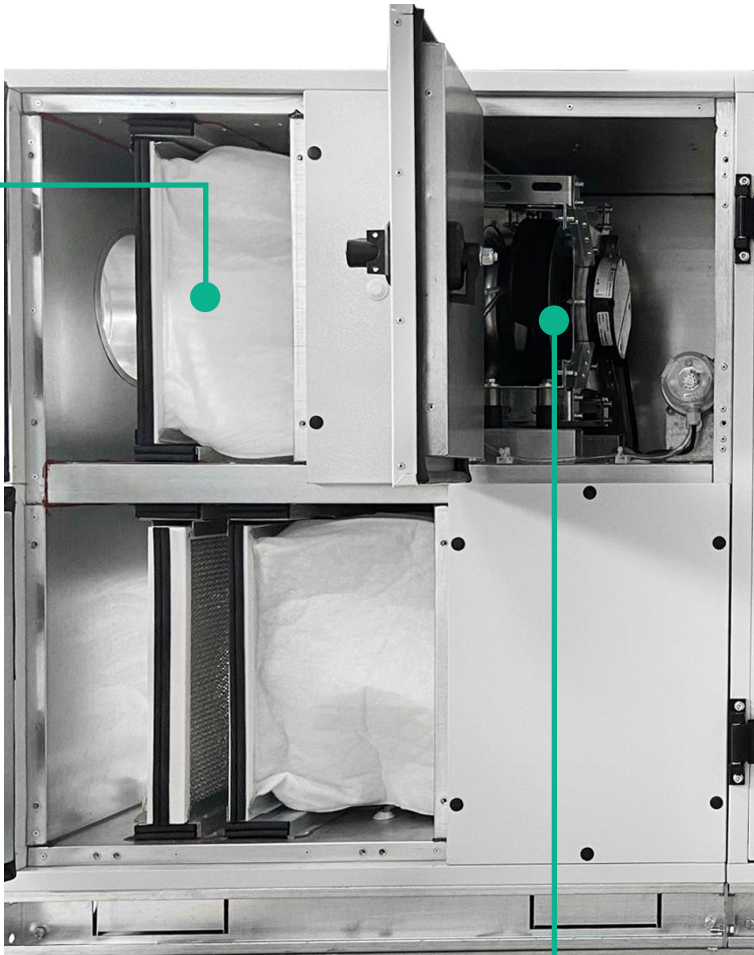


POCKET FILER

The pocket design guarantees **the increase of filtration area** and provides maximum efficiency.

Made of a durable painted metal frame.

- Filter material: polyester / micro-fibreglass
- Filtration class acc. to ISO 16890:  
Coarse, ePM10, ePM2.5, ePM1
- Working environment temperature: up to 80°C
- Humidity of the working environment: ≤100%



EC-MOTOR

Brushless synchronous motor with electronic control highly reduces noise level.

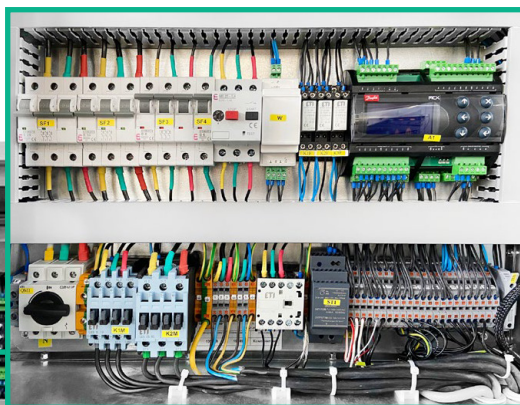
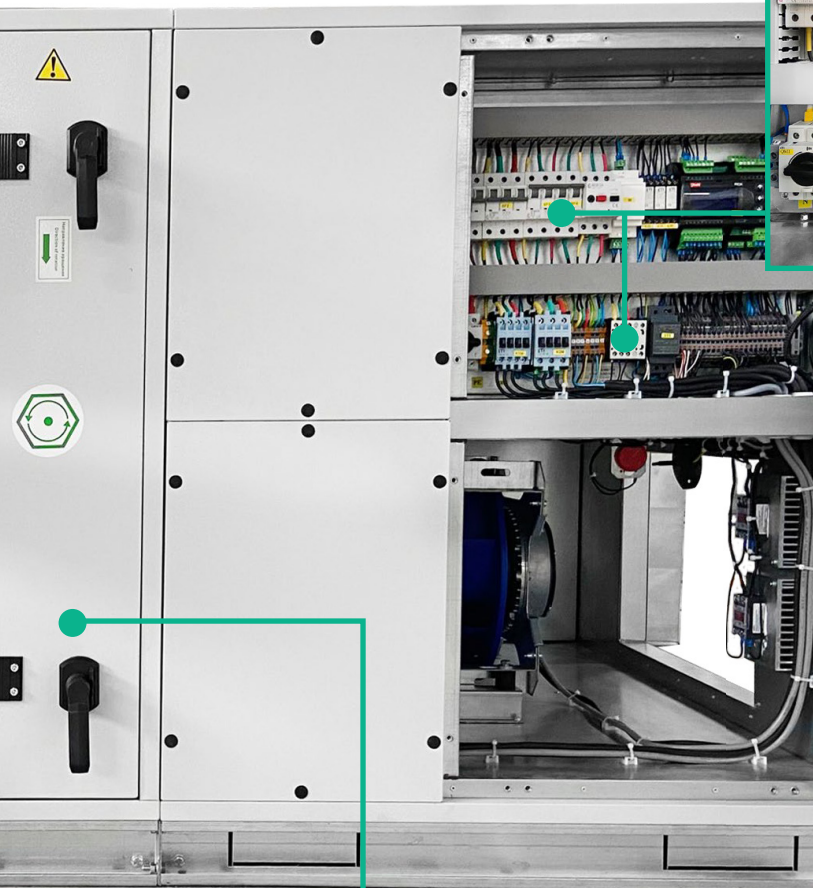
- High working pressure: up to 2500 Pa
- Wide range of nominal voltage: 200-277V and 380-480 V ±15%
- Long service life: more than 80 000 h of continuous work

EC-electric motor with efficiency higher 90%

- ⊕ Saves at least 30% more electricity than an AC motor
- ⊕ Complies with the ErP 2015 directive
- ⊕ Built-in EMC filter protects against phase loss and low voltage in the network
- ⊕ Protection against overheating of the motor and electronics, and protection against rotor lock
- ⊕ No starting currents
- ⊕ No service needed
- ⊕ The absence of the frequency converter saves installation space
- ⊕ Allows reduction of the fan capacity up to 10%
- ⊕ Optionally EC-motor is equipped with MODBUS RTU protocol

Option. Application of the Flow Grid technology: air flow rectifier

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## CONTROL

- ⊗ dehumidification according to moisture sensor
- ⊗ dehumidification at the external signal from the automation system
- ⊗ automatic shutdown of the unit in case of emergencies or fire
- ⊗ automatic restart of the unit after a power failure
- ⊗ indication of operating modes of the unit
- ⊗ protection of motors and cables against short circuit
- ⊗ protection of fan motors and heaters from thermal overload



## SORPTION ROTOR

Adsorption dehumidifiers work at any temperatures and air humidity levels.

The rotor is the main element of the dehumidifier. Two isolated from each other air streams are passed through the rotor at the same time.

The first stream is dehumidified air.  
The second stream is reactivation air.

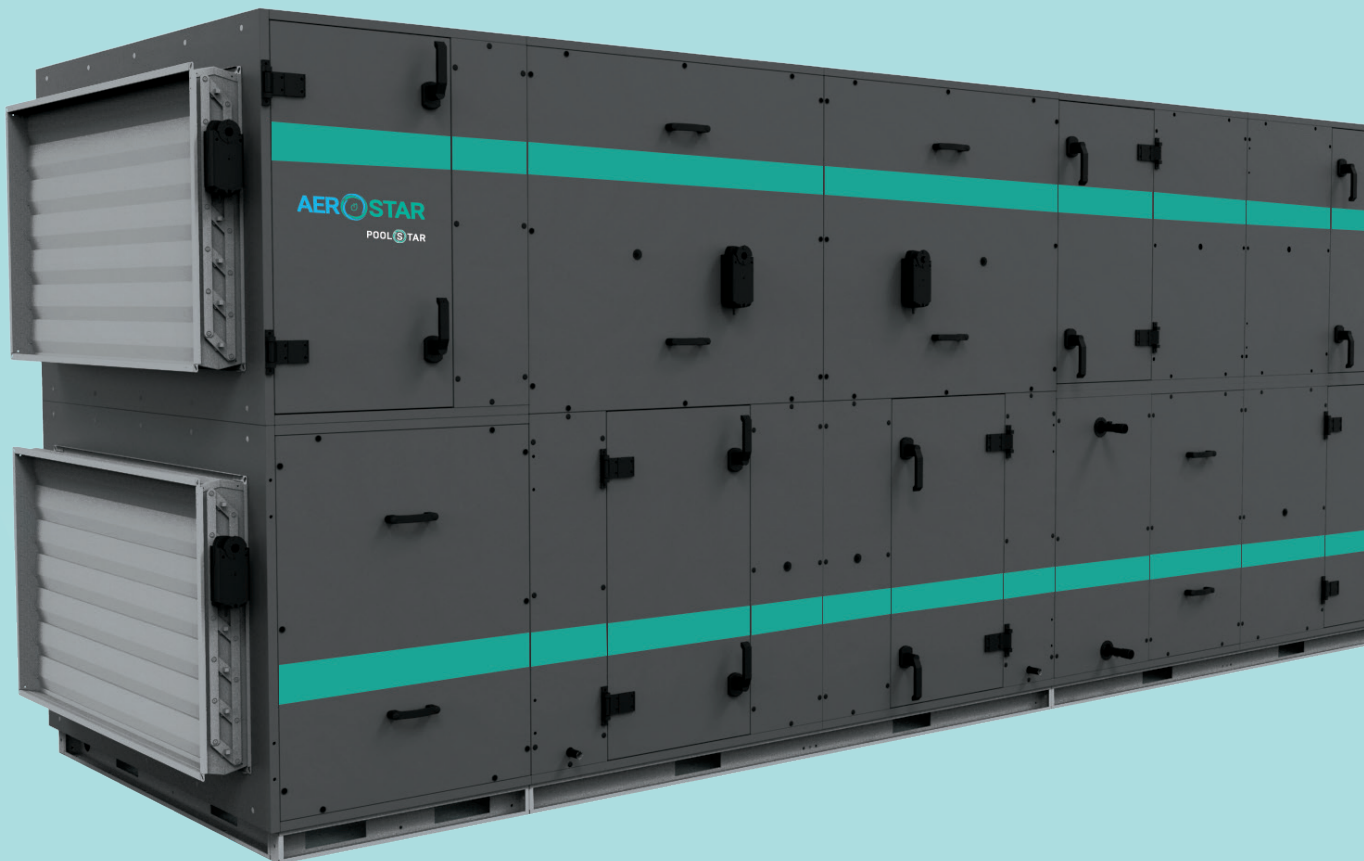
- Water molecules are absorbed by a special absorbent composition (based on silica gel) while passing through a rotary recuperator.

Moisture removal is accompanied by the air temperature increase. While rotating recuperator enters the reactivation zone, where it is dried by a second stream of heated air. This way, its moisture-absorbing properties are restored.

# PoolStar

Equipment for dehumidification and ventilation of air in rooms with intensive moisture release

**CAPACITY: 3000 m<sup>3</sup>/h - 32000 m<sup>3</sup>/h**





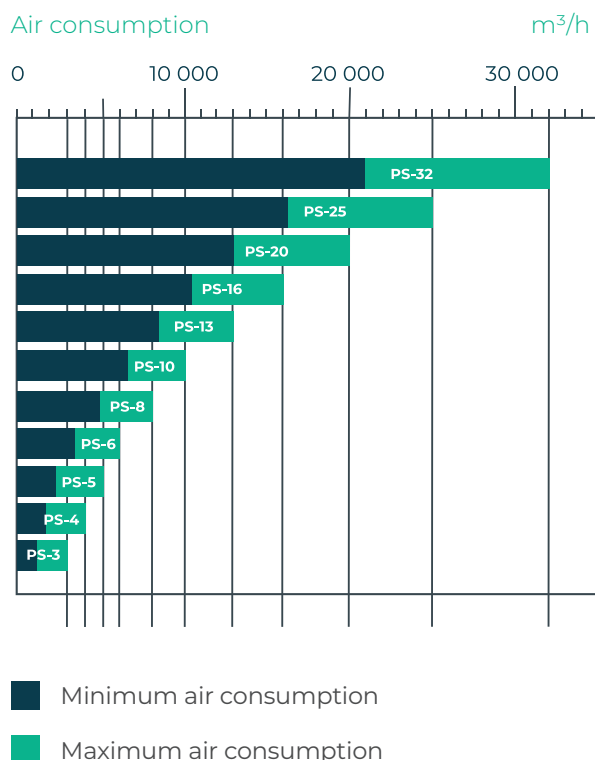
## AREA OF USAGE:

Are made in various modifications therefore are perfectly suitable for application in pools of all types and aqua parks.

Unit PS-32 is made in frame case



Standard model range is presented with 11 standard sizes:



## ADVANTAGES



### Protection from corrosion, mould and fungus

Prevents formation of condensate, corrosion, mould and fungus, prevents the destruction of load-bearing structures.



### Double energy efficiency

Is provided by joint work of the plate recuperator and the heat pump.



### High-quality steel coated with anti-corrosion powder paint

The environment in which POOLSTAR operates is aggressive because chlorine is used in swimming pools. In addition, there is constant contact with humid air. For additional protection against corrosion, all interior panels are made of high-quality steel coated with anti-corrosion powder paint.



### Energy Saving mode of operation

PoolStar units are equipped with a set of automation that can be easily integrated into a single management and scheduling system of the facility. Depending on the thermophysical characteristics of the room, automation system selects the optimal energy saving mode of equipment operation for proper ventilation and dehumidification.

BASIC CONFIGURATION

EPOXIDIZED WATER HEATER

During operation in winter the epoxy aluminium-copper water heat-exchanger is put into operation. In full recovery mode the fast heating of the pool room is provided after stand-by or night mode operation.

POCKET FILTER

The cleaner the air is, the higher the heat-exchange coefficient is and, as a consequence, the efficiency of the whole unit.

Purity class - ISO 16890: ePM10. ePM25. ePM1  
Operating medium temperature: up to 80°C



HIGHLY EFFICIENT HEAT-EXCHANGER OF “FREON-WATER” TYPE

Is the optimal solution for the air heating and cooling systems. The heat-exchanger has two circuits: water from the pool circulates in one circuit, hot gas circulates through another circuit, and after gas condensation it transfers heat to a water stream.

- ⊕ Compact
- ⊕ Minimum internal volumes
- ⊕ High working pressure
- ⊕ Self-cleaning of working surfaces
- ⊕ Has low resistance



RECUPERATOR WITH EPOXY COATING

The recuperation system allows reusing of the energy of the exhaust air from the room to heat and cool the air from the outside. The use of recuperator gives an opportunity to reduce the total energy consumption by 60% that is especially important considering the rapid increases of the prices for the energy sources.

- ⊕ Corrosion-resistant aluminium foil coated with epoxy resin for aggressive environments
- ⊕ Strong connection of plates due to double folding
- ⊕ Pressure stability due to five-fold thickness of the material
- ⊕ The distance between the plates of 6.5 mm increases the drying efficiency.
- ⊕ This design avoids pressure losses without performance reduction

Efficiency: up to 85%, depending on the size and operating parameters

HEAT PUMP

Allows using the electrical and thermal energy for drying and heating with top efficiency (COP = 3,6). The pump does not require a remote compressor-condenser unit, which reduces the cost of installation work. The heat pump section dries and maintains the air temperature in the specified range.

- ⊕ Ecological refrigerant r410a
- ⊕ High efficiency
- ⊕ Individual automation

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**DOES NOT REQUIRE  
ADDITIONAL LABOR  
COSTS OF THE SERVICE  
PERSONNEL**

## ADDITIONAL OPTIONS

- ⊕ For rooms with limited space, it is possible to perform an energy-efficient supply and exhaust system with a heat pump and without a plate recuperator, as well as a supply unit with a heat pump and a mixing chamber
- ⊕ Can be equipped with an electric heater
- ⊕ Painting in any colour of the ral palette



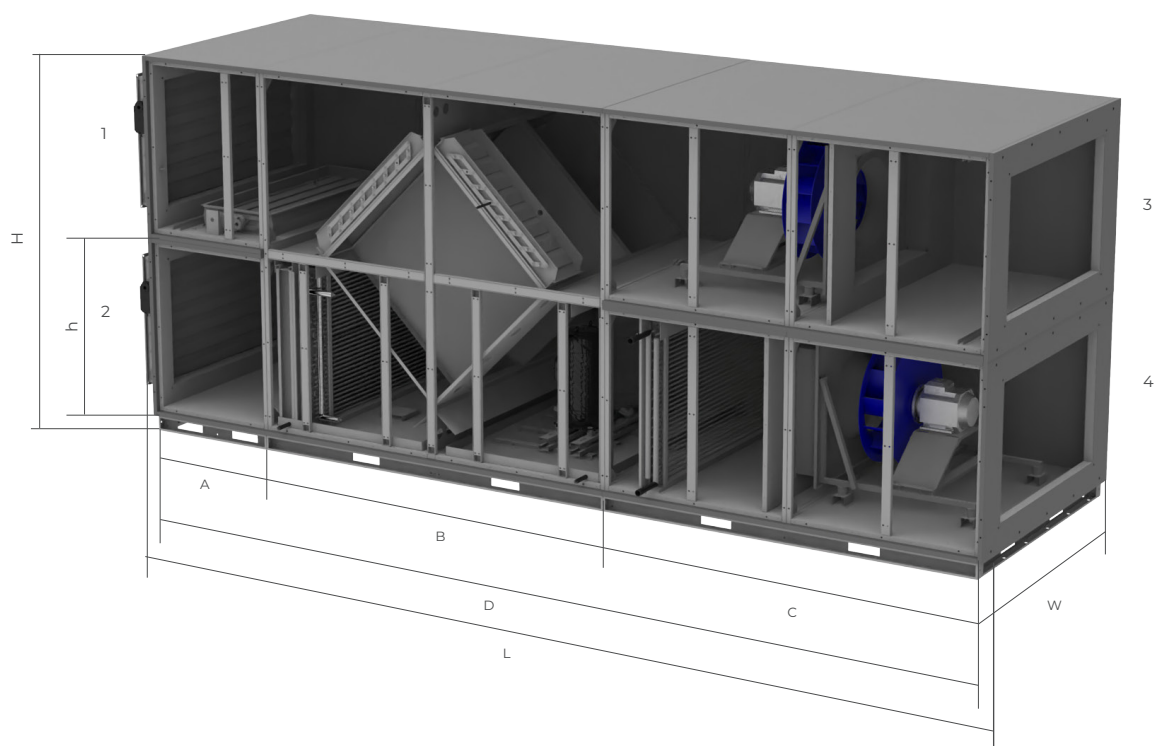
## AUTOMATIC MODE

Provides an energy-efficient method of drying depending on the air humidity in the room and the climatic parameters of the outside air.

## TECHNICAL FEATURES

TYPE	AIR CONSUMPTION, M <sup>3</sup> /H	MAXIMUM EXTERNAL STATIC PRESSURE, PA	AMOUNT OF MOISTURE REMOVED, KG/H (Air parameters: Outside: T=22°C, φ = 80%. Exhaust: T=30°C, φ = 60%)		ELECTRIC POWER CONSUMPTION, KW*
			MAIN MODE (WINTER, MIXING OF FRESH AIR)	ACTIVE DRYING	
PoolStar-3	3 000	800	28,6	6	6,5
PoolStar-4	4 000	800	39,6	10,1	9,9
PoolStar-5	5 000	800	65,2	12,4	11,5
PoolStar-6	6 000	600	88,4	17,2	13,3
PoolStar-8	8 000	650	131,4	22,9	18,1
PoolStar-10	10 000	400	171,5	25,3	18,9
PoolStar-13	13 000	650	230,7	36,6	30,2
PoolStar-16	16 000	550	181,9	50,5	35,7
PoolStar-20	20 000	500	221	55,7	43
PoolStar-25	25 000	500	282,1	75,6	53
PoolStar-32	32 000	450	449,9	78,7	66,3

\*In main mode while using EC fans, not taking into account automation consumption.



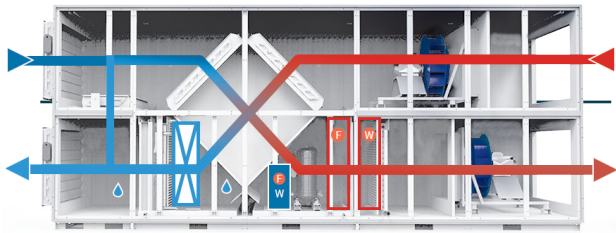
## DIMENSIONS OF THE UNIT

TYPE	DIMENSIONS OF THE UNIT, MM								CONNECTION DIMENSIONS, MM			
	A	B	C	D	h	H	W	L	1	2	3	4
PS-3	700	1300	1429	3429	550	1185	900	3900	600/350			
PS-4	729	1458	1458	3645	600	1285	1000	4125	700/400			
PS-5	729	1589	1589	3907	700	1485	1100	4387	800/500			
PS-6	729	1700	1663	4092	700	1485	1200	4572	900/500			
PS-8	729	2000	1663	4392	800	1685	1300	4872	1000/500			
PS-10	729	2000	1663	4392	900	1885	1400	4872	1150/600			
PS-13	729	2300	2073	5102	1000	2085	1550	5582	1300/700			
PS-16	729	2905	2073	5707	1100	2285	1700	6187	1400/800			
PS-20	729	3069	2204	6002	1250	2585	1900	6482	1600/1000			
PS-25	729	3200	2523	6452	1400	2885	2050	6932	1750/1100			



## OPERATION MODES OF THE UNIT

The built-in automation allows to adjust the unit to optimum operating modes: the main mode «winter», «winter min», «active drying», «fast heating», «summer», «summer +», «summer ++» (additional option), thanks to which it significantly saves the electric power.



### Winter (Basic Mode)

**Main mode for winter time when there are people in the room.**

Moisture is removed and fresh heated air is supplied to the pool.

#### By default:

Fans work at 100%

Admixing of fresh air – 30%

Heat pump works



[click here](#)



### Winter min

**Is applied when the pool is not used, water surface is covered or there is no water inside the pool.**

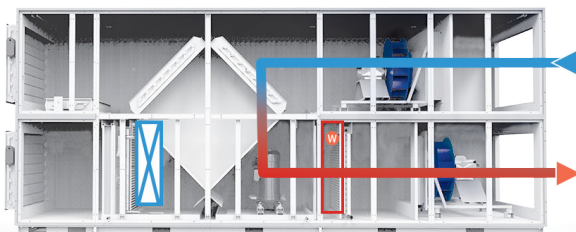
Fresh air is supplied to the room for a minimum number of people (service personnel).

#### By default:

Fans work at 80%

Recirculation – 80%

Admixing of fresh air – 20%



### Fast heating

Designed for conditions when there are no people in the pool premise and no moisture release, water surface is covered or there is no water inside the pool.

#### By default:

Water heater works in a stand-by mode

Admixing of fresh air – 0%



### Active drying

**Is used when there are no people in the pool, but there is an active release of moisture.**

The unit operates in stand-by mode, maintaining certain humidity due to the operation of the heat pump.

#### By default:

Recirculation – 100%

Admixing of fresh air – 0%

Heat pump works



[click here](#)



## Summer

**The mode in which ventilation of the pool premise is performed with the help of fresh warm air.**

Maintains the set moisture level. This is achieved by removing moist air and supplying warm dry air.

**By default:**

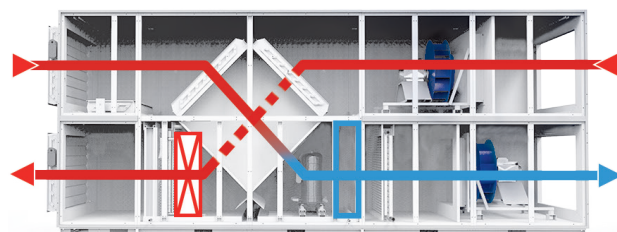
Fans work at 100%.

Fresh air – 100%

Heat pump doesn't work



[click here](#)



## Summer +

**The mode is similar to the Summer mode, except that the supply air is not heated on the recuperator but goes through the bypass.**

**By default:**

Fans work at 100%

Fresh air – 100%



## Summer ++ (extra option)

**The unit works as a general forced ventilation system. The mode is relevant in the warm season with high humidity of outside air.**

The supply air passes through the recuperator, while the heat pump is turned on the reverse mode, removing excess heat from the supply air.

**By default:**

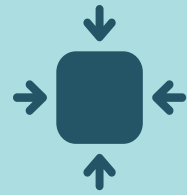
Fans work at 100%.

Admixing of fresh air – 100%

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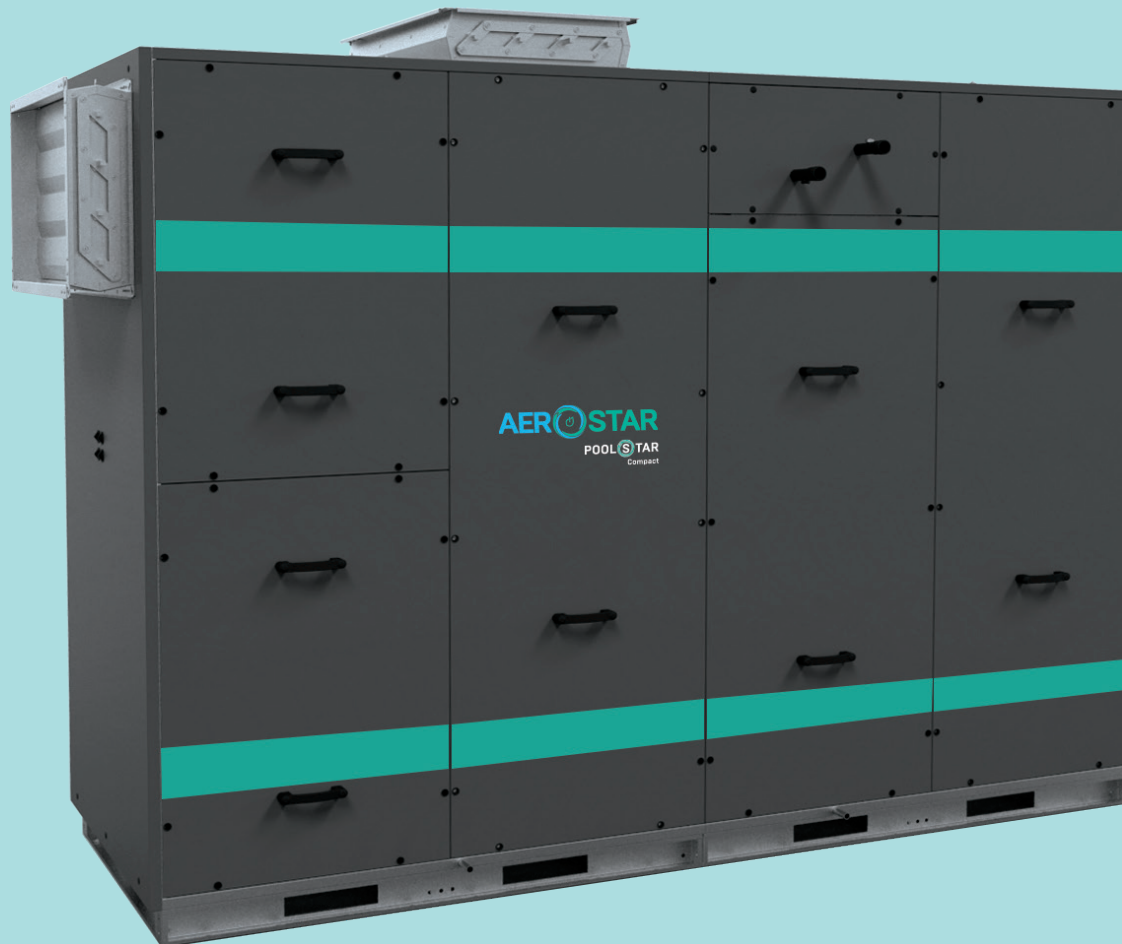
# PoolStar

## Compact



Compact unit for dehumidification and ventilation of air in rooms with intensive moisture release.

**CAPACITY: 750 m<sup>3</sup>/h - 3000 m<sup>3</sup>/h**





## PARAMETERS THAT DETERMINE COMFORT BEING IN THE POOL:

- ⊗ Temperature
- ⊗ Humidity
- ⊗ Speed of movement
- ⊗ High-quality air composition

For maintenance of comfortable conditions and an acceptable level of water evaporation, the humidity in the pool should be 50-60%.

## POOLSTAR COMPACT UNIT HELPS TO CREATE A HEALTHY MICROCLIMATE IN THE POOL

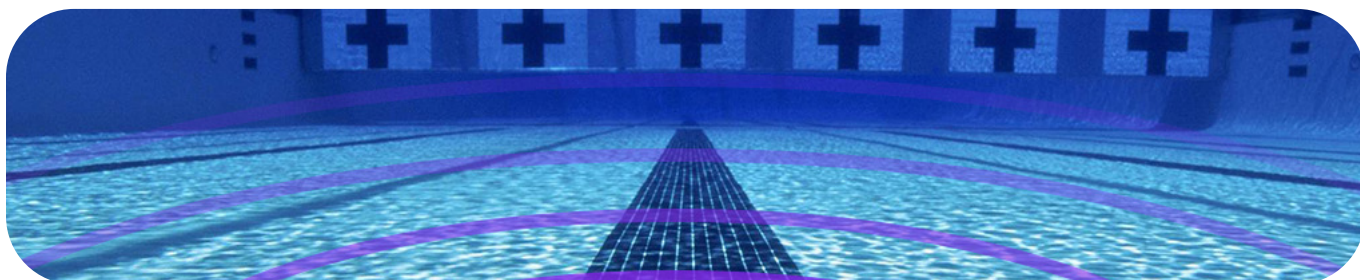
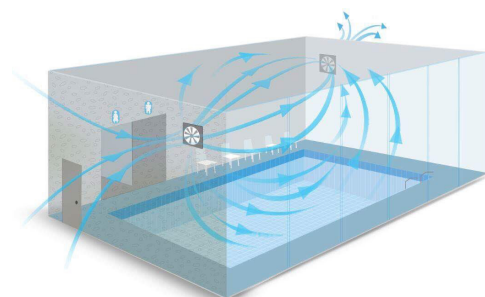
At very high relative humidity a feeling of suffocation occurs. High humidity reduces evaporation through the skin and limits regulatory capacities of the body to maintain body temperature at the constant level. Therefore, the humidity control in the pool at a large extent determines the feeling of comfort.



**The composition of air – which is the ratio of oxygen and carbon dioxide, evaporation, odours, air mobility – is regulated by the ventilation system.**

The designers of air distribution system should achieve the effective reduction in humidity and acceptable air quality in the pool.

Complaints about uncomfortable conditions in water are frequently caused by poor air distribution and by the fact that chloramines are not removed from the surface of the pool.



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## AREA OF USAGE:

Small pools in private houses.

Provides the most comfortable conditions while being in the pool.



## ADVANTAGES



### Protection from corrosion, mould and fungus

Prevents formation of condensate, corrosion, mould and fungus, prevents the destruction of load-bearing structures.



### Double energy efficiency

Is provided by joint work of the plate recuperator and the heat pump.



### High-quality steel coated with anti-corrosion powder paint

The environment of POOLSTAR operation is aggressive because of chlorine usage in swimming pools. In addition, there is constant contact with humid air. For additional protection against corrosion, all interior panels are made of high-quality steel coated with anti-corrosion powder paint.



### Energy saving mode of operation

PoolStar Compact units are equipped with a set of automation that can be easily integrated into a single management system "Smart Home".

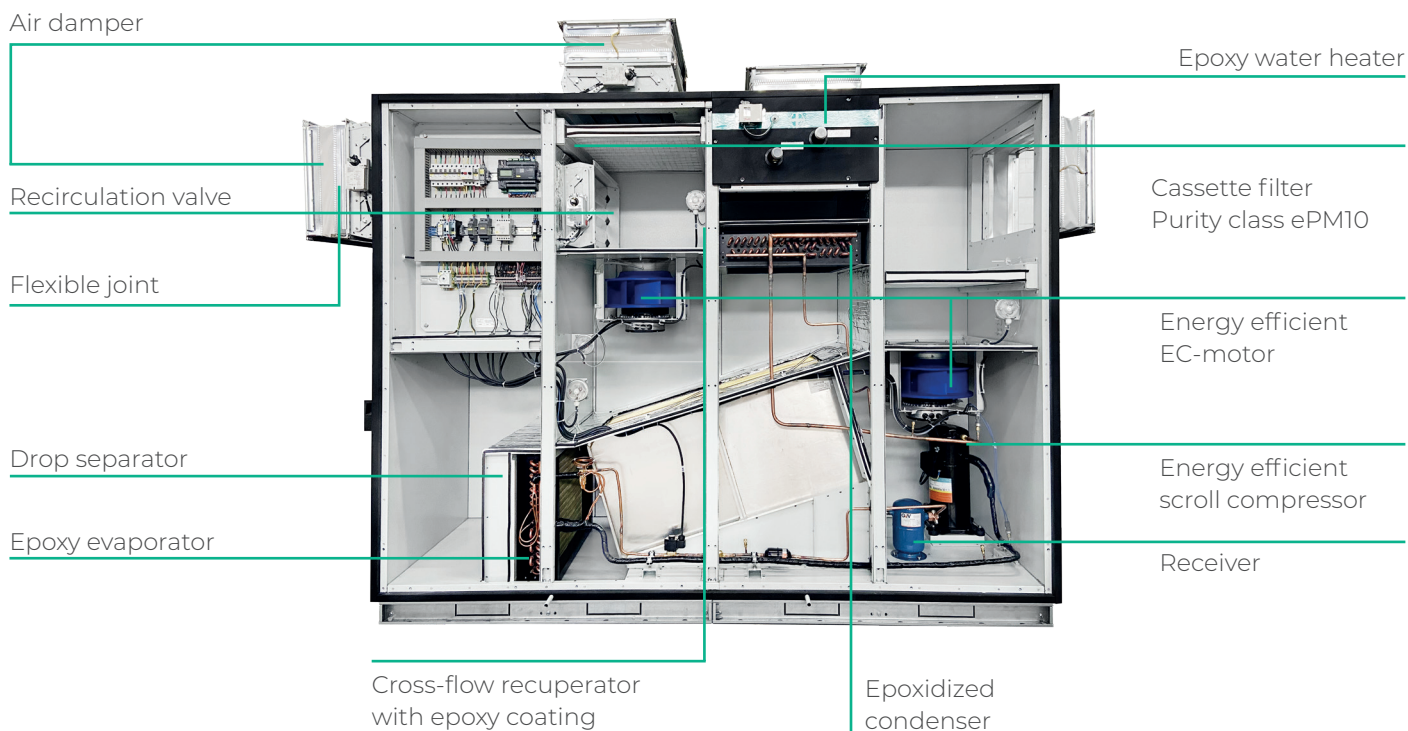
Standard model range is presented with 3 standard sizes:

Air consumption m<sup>3</sup>/h

	1000	2000	3000
PS Compact-3			
PS Compact-2			
PS Compact-1			

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## BASIC CONFIGURATION



### ENERGY EFFICIENT EC-MOTOR

EC-electric motor with efficiency above 90%.  
Saves at least 30% more electricity than AC motor.

Complies with the ErP 2015 directive

### ENERGY EFFICIENT SCROLL COMPRESSOR

- ⊕ Innovative design of the built-in radial and axial coordination of scrolls
- ⊕ Accurate calculation of load and sealing force optimizes operating sound pressure
- ⊕ Built-in sound insulation
- ⊕ Built-in protection against high pressure and overload

### CROSS-FLOW RECUPERATOR WITH EPOXY COATING

Allows reducing the total energy consumption by 60%

- ⊕ Corrosion-resistant aluminium foil coated with epoxy resin for aggressive environments
- ⊕ Strong connection of plates due to double folding, pressure stability due to five-fold thickness of the material

### AIR DAMPER

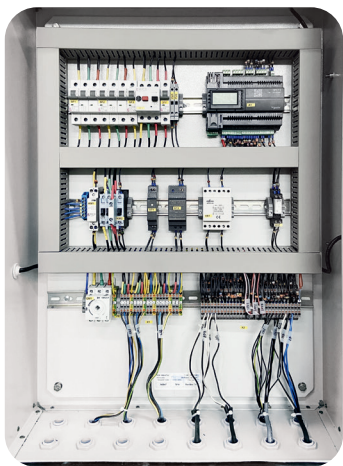
Equipped with a turn-type drive and modulating control.



Interior panels are made of high-quality steel coated with anti-corrosion paint for aggressive environments.

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BASIC CONFIGURATION



BUILT-IN AUTOMATION

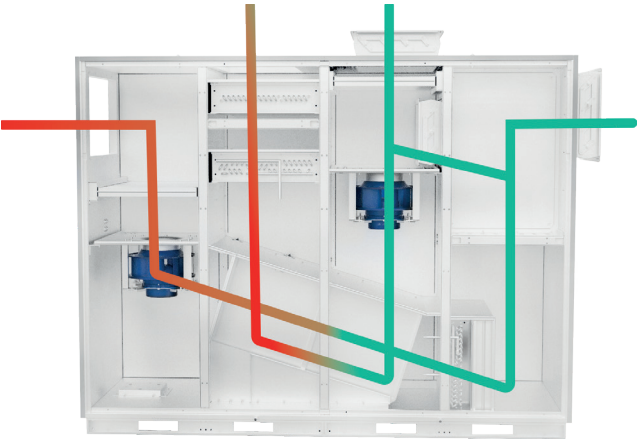
Depending on the thermophysical characteristics of the room, automation system selects the optimal operation saving mode of equipment for ventilation, dehumidification and maintenance of the set temperature in the room.

DIMENSIONS OF THE UNIT



TYPE	DIMENSIONS OF THE UNIT, mm			CONNECTION DIMENSIONS, mm			
	H	W	L	1	2	3	4
PS Compact-1	1500	600	2450	400/200			
PS Compact-2	1800	750	2450	600/350			
PS Compact-3	1800	900	2450	700/400			

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WINTER (MAIN MODE)

Main mode for winter time when moisture is removed and fresh air is supplied to the pool.

The mode is activated when the actual humidity level exceeds the set humidity value on the controller.

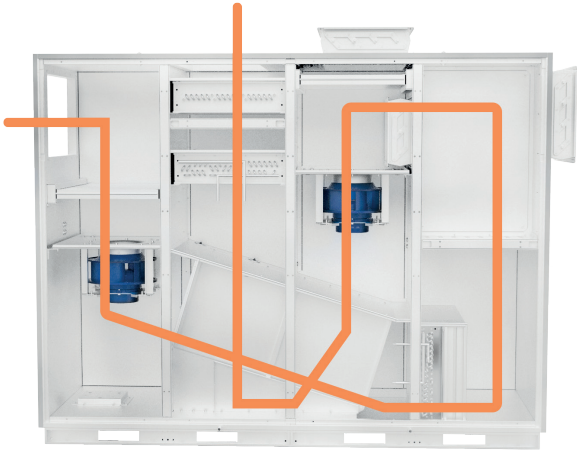
Recommended parameters:  
Admixing of fresh air – 30%



FAST HEATING

Designed for conditions when there are no people in the pool room and no moisture release, so that set humidity value is higher than the actual one, and actual temperature is lower than the set temperature.

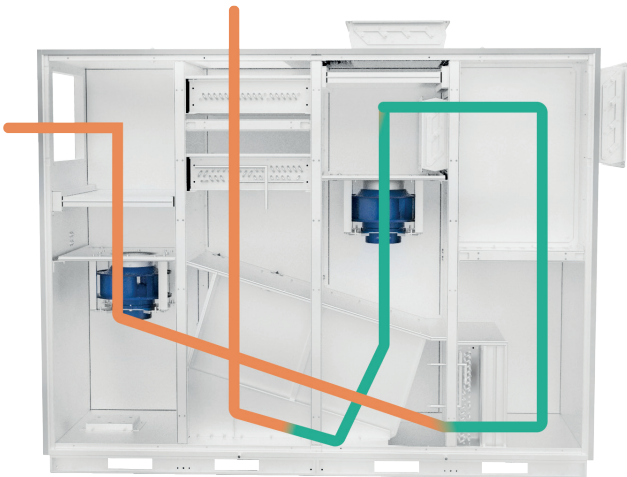
Recommended parameters:  
Recirculation – 100%



ACTIVE DRYING

Is used when there are no people in the pool, but there is an active release of moisture. The unit operates in stand-by mode, maintaining certain humidity due to the operation of the heat pump.

Recommended parameters:  
Recirculation – 100%



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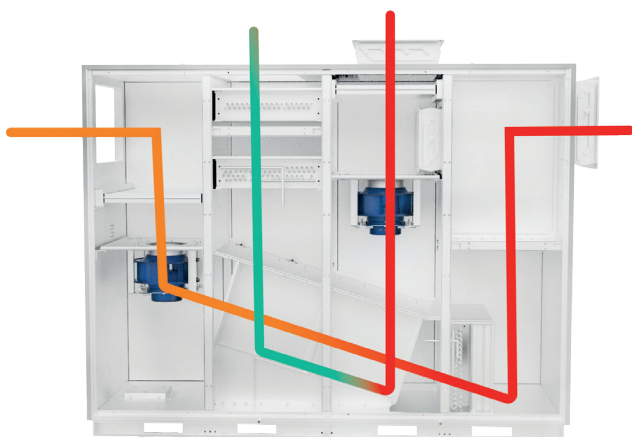
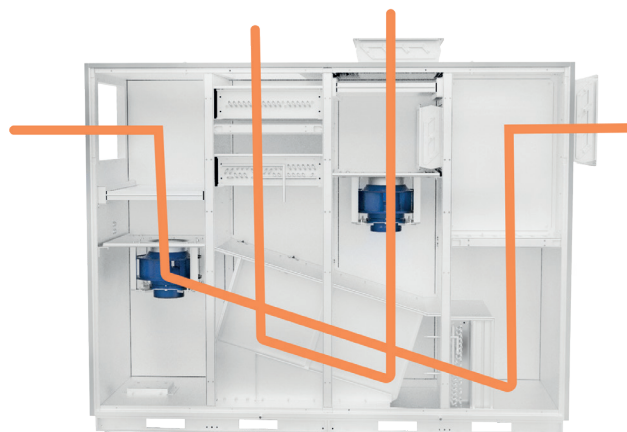




### Summer

The mode in which ventilation of the pool premise is performed with the help of fresh warm air.

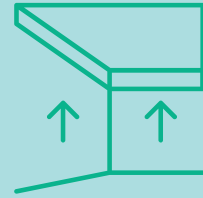
Maintenance of the set moisture level is achieved by removing moist air and supplying warm dry air.



### Summer ++

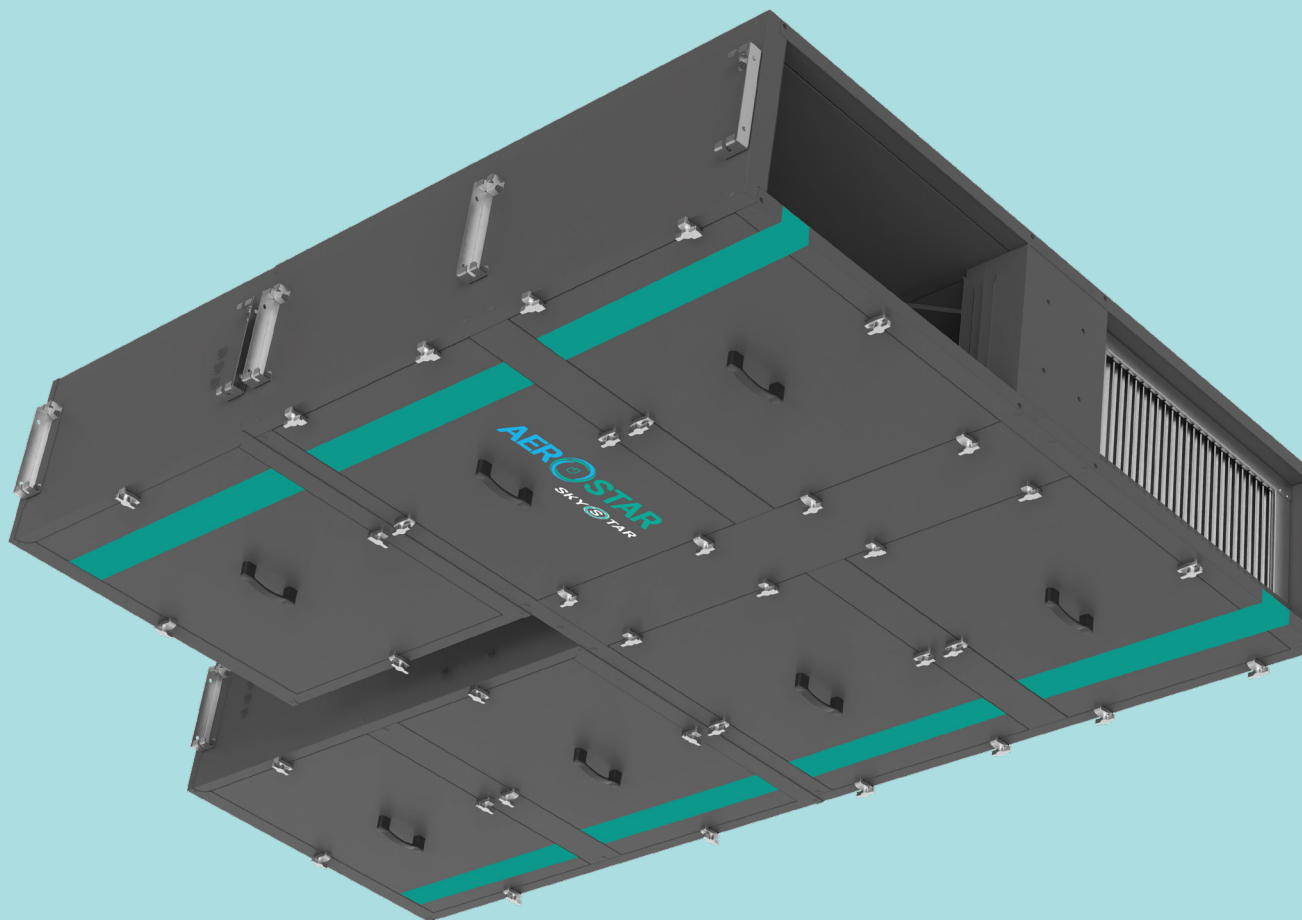
The supply air passes through the recuperator, while the heat pump is turned on the reverse mode, removing excess heat from the supply air.

# skyStar



Compact systems with suspended mounting

**CAPACITY: 800 m<sup>3</sup>/h – 4 000 m<sup>3</sup>/h**





## AREA OF USAGE:

Facilities of various purposes.

**Standard model range is presented with 5 standard sizes:**

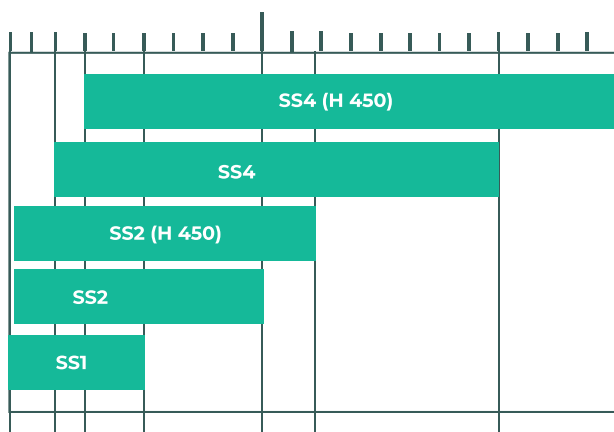
Air consumption

m<sup>3</sup>/h

200

2500

5500



## ADVANTAGES



Saves useful space of expensive commercial real estate, as it is mounted on the ceiling.



Easy to install even over a suspended ceiling, due to a minimum size with height 338 mm.

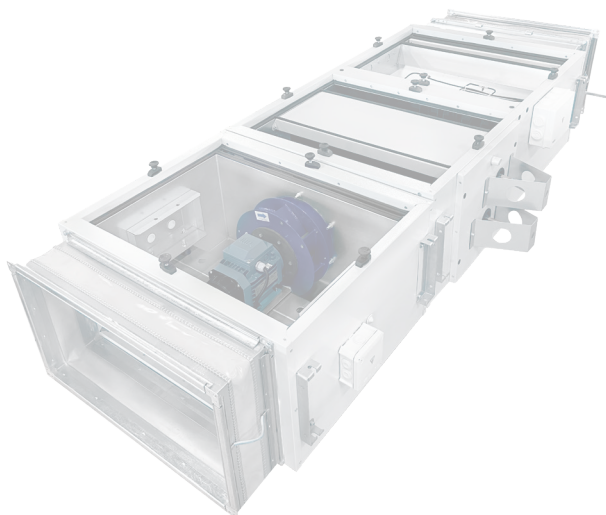


High noise and heat insulation of the unit (panel thickness 30 mm (up/down) and 50 mm (side)).



The automation system provides full control over regulation and protection of the entire ventilation system.

*\*Optionally*



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## BASIC CONFIGURATION

### PLATE RECUPERATOR

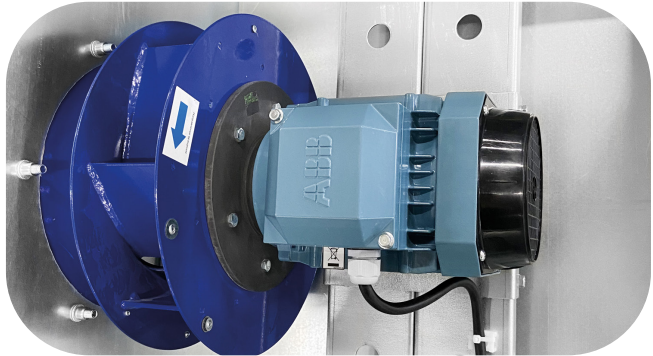
High-quality aluminium recuperator reduces overall energy consumption up to 60%.



### FAN WITH DIRECT DRIVE

Ideally adapted to the aerodynamics of the ventilation network, parameters can be adjusted if necessary.

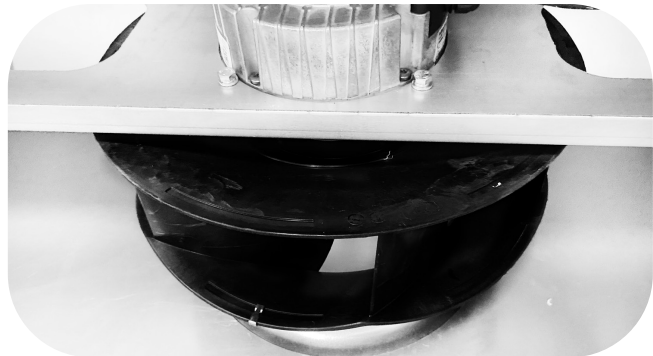
Energy efficiency class: IE2



### FAN WITH EC-MOTOR

Reduces energy consumption due to smooth regulation of capacity.  
Reduces the overall noise level due to the absence of phase noises.  
Saves space inside the installation and the total weight of the unit.

High efficiency: up to 90%



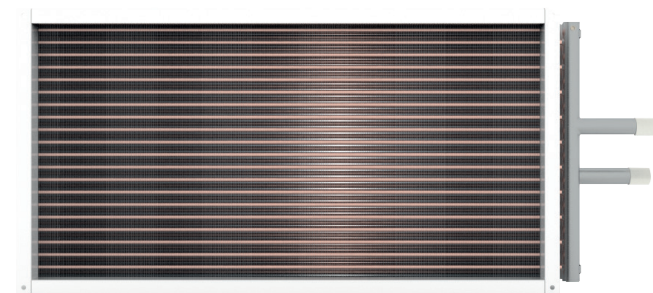
### WATER HEATER

2-6-row water heaters are used.  
The case is made of galvanized sheet.  
Pipe collectors are welded from steel or copper pipes with a surface covering by synthetic paint.

Maximum working pressure: 20 atm

Copper pipes: diameter - 9.52 mm

Wall thickness: 0.27 mm / 0.33 mm



### NOISE ABSORBER

Provides minimal pressure losses and equalizes airflow. Air fairings are installed in front of the noise-absorbing plates, thus the air flow in the cross section of the channel is equalized.

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### FILTER

Cassette or pocket filter is used if needed.  
Filters are used to clean the supply air.

Filter material: polyester / micro-fibreglass.

Cleaning class acc.to ISO 16890:

Coarse, ePM10, ePM2.5, ePM1

Operating medium temperature: up to 80°C



### ELECTRIC HEATER

The heater case is made of galvanized steel with high zinc content.  
Heating rods – made of stainless steel.

Protection class: IP 20

Operating temperature: -30°C to + 40°C

### FREON COOLER

The body of the cooler is made of galvanized sheet with insulation from moisture condensation.  
The heat exchange surface is created by aluminium plates with thickness 0.1 mm, stretched over copper tubes.

Evaporators are filled with nitrogen during production process.  
Production with the right or left connection of refrigerant is possible.  
Equipped with a dropseparator with an insulated tray for condensate drainage.

### AIR DAMPER

Consists of rotating slats with optimal aerodynamic characteristics.  
A rubber seal is provided between the flaps and the valve body, which prevents air suction and freezing of the plates.

Smooth regulation of an air stream is provided by the metal force distributor.

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Basic configuration includes the control panel:



AEROSTAR IQHMI3.5

The panel allows you to control and manage the operation of individual ventilation system, regardless of the configuration of the ventilation equipment.  
The panel allows switching of operation modes of ventilation system, using the conditional scripts.  
The script can be activated both manually and on the timer.

Model	IQHMI3.5
Display size:	3.5"(length: width = 4:3)
Resolution:	320x234
Brightness:	350 cd/m2
Contrast:	400: 1
Colour:	262, 144 колір
Backlight:	LED
Control panel:	4-wire high-precision, electrical resistance, touch screen
COM	1 X COM (RS485)
USB port download of the USB device:	YES
Storage:	DDR2 32 MB
Processor:	U32905U1DN
Power supply:	DC: 24 V (± 15%), 6 W
Power consumption:	3 W
Compatibility with FCC:	FCC, Class
CE certification:	EN55022 EN55024
Operating temperature:	-10 ~ 65°
Humidity:	10 ~ 90% RH (without condensation)
Degree of impact resistance:	10-25 Hz (X Y Z size 2G / 30 min)
Protection level:	IP65 (front panel)
Material:	engineering plastic ABS + PC
External dimensions:	86*86*40.5 (mm)
Size of portoforium:	69x69 (mm)
Weight:	about 0.2 kg



Modicon M172 Display  
Color TouchScreen,  
Temperature built-in  
sensor  
**Schneider Electric**



Th-Tune display **CAREL**



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# CrossStar

Energy saving supply and exhaust unit with rotary recuperator

**CAPACITY: 1000 m<sup>3</sup>/h – 14 000 m<sup>3</sup>/h**



AREA OF USAGE:

public buildings such as schools, nursery schools, offices, banks, restaurants, shops, houses and other facilities where savings due to minimal energy consumption are important.

ADVANTAGES



SAVES UP TO 85% OF ENERGY

and operating costs due to the most energy-efficient components.



DOES NOT REQUIRE COMMISSIONING WORKS.

It is enough to connect the installation to the electric network and mount the air duct system.



BUILT-IN AUTOMATION.

The controllers and all control elements are already set up and ready to go. The units are equipped with flow / pressure support sensors.

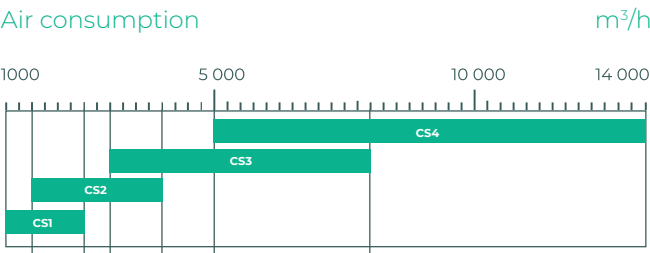


COMFORTABLE CONTROL AND MANAGEMENT.

Control the unit at any time from anywhere in the world with all convenient devices.



Standard model range is presented with 4 standard sizes:



TECHNICAL PARAMETERS

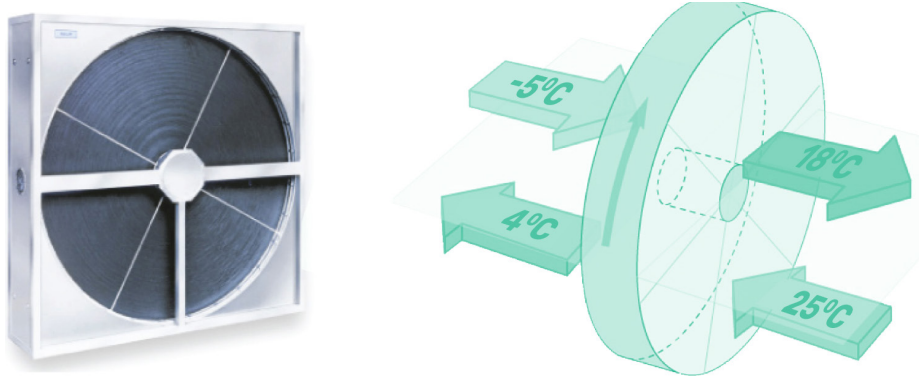
TECHNICAL DATA		CS-1	CS-2	CS-3	CS-4
AIR CONSUMPTION, m³/h		600 – 1 800	1 500 – 3 600	3 000 – 7 900	5 000 – 14 000
Dimensions of the unit	Horizontal design HxWxL, mm	1000x1030x1448	1100x1130x1448	1360x1440x1885	1890x1920x1885
	Vertical design HxWxL, mm	1000x1030x1885	1100x1130x1885	1360x1440x2512	1890x1920x2512
Height of the frame, mm		85 / 200			
Connection sizes of the unit	Horizontal design, mm	930x400	1030x450	1340x580	1820x845
	Vertical design, mm	400x250	500x300	700x400	800x700
Maximum power consumption without additional options, kW		1,1	5,1	7,9	11,0

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### OPERATION WITHOUT HEATER DURING TRANSITION PERIOD UP TO -5 °C

The unit does not require additional heating of air in the range up to -5 °C of external air at a temperature of the exhausted air about 25 °C.



### EXPANDING OF OPERATING RANGE

CrossStar unit in a basic configuration provides fresh air with acceptable parameters almost all year round.

At «peak» summer loads conditioning mode can be realized with the help of built-in reversible freon heat exchanger or optionally with freon or water cooler from the channel series of the equipment.

At low temperatures, comfortable conditions are achieved by built-in water heater or optionally by channel electric or water heater.



## BASIC CONFIGURATION

### EC-MOTOR

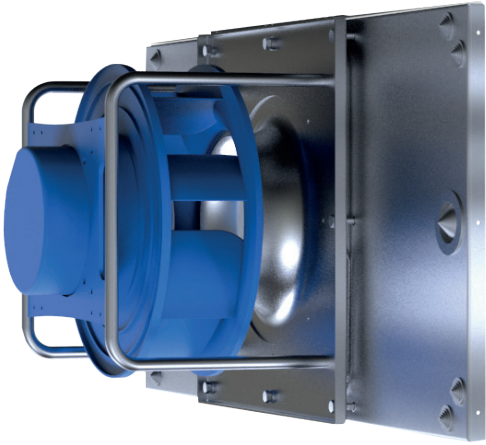
Brushless synchronous motor with electronic control highly reduces noise level.

Complies with the ErP 2015 Directive

**EC-electric motor with efficiency above 90% saves at least 30% more electricity than AC motor.**

- High working pressure: up to 2500 Pa
- Wide range of rated voltage: 200-277V an 380-480V +/-15%
- Long service life: more than 80 000 hours of continuous operation**
- Built-in EMC filter protects against phase loss and low voltage in the network
- Protection against overheating of the motor and electronics, and protection against rotor lock
- No starting currents
- The absence of the frequency converter saves installation space
- Allows reduction of the fan capacity up to 10%
- EC-motor is optionally equipped with MODBUS RTU protocol

\*Option. Use of Flow Grid technology: air flow rectifier



### POCKET FILTER

The pocket design guarantees the increase of filtration area and provides maximum efficiency of dust collection.

**Filtration class acc. to ISO16890:**  
**Coarse, ePM10, ePM2.5, ePM1**



### IMPELLER

- Ultralight composite material ZAmid
- 3D blades in the form of water drops
- Profiled blade
- Low tonal noise

### INNOVATIVE CASE WITH PVC-PROFILE

- Minimal energy losses per square meter of surface
- Improved thermal insulation
- Increased mechanical strength



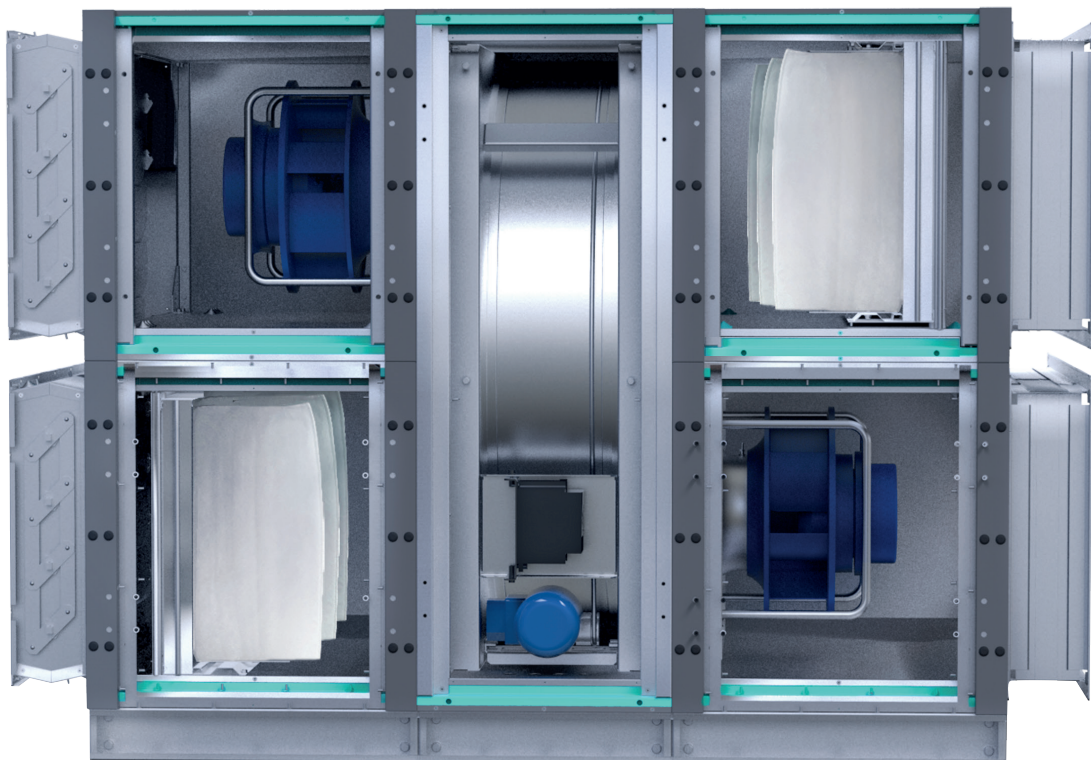
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### ROTARY RECUPERATOR

In rotary recuperators, heat transfer from the exhaust air to the supply air is carried out by means of a movable matrix with different types of coatings. The matrix of the rotary recuperator consists of two layers of aluminium foil, smooth and corrugated, alternately applied to each other. The recovery efficiency will vary depending on the height of the corrugated tape, as well as the speed of rotation of the wheel.

**Reduction of heat exchange areas and rotation speed of 10 rpm allows reducing of energy consumption by 80%.**

- ⊕ Foil thickness: from 1.4 to 1.8 mm
- ⊕ Height of foil waves: from 1.6 to 2.5 mm
- ⊕ Efficiency: up to 88%, depending on the size and operating parameters
- ⊕ Recuperation depends on the temperature difference between the outside and exhaust air
- ⊕ Equipped with a highly efficient brush seal
- ⊕ Electric drive with a variable speed of rotation for maintenance of maximum efficiency and regulation of the degree of energy utilization



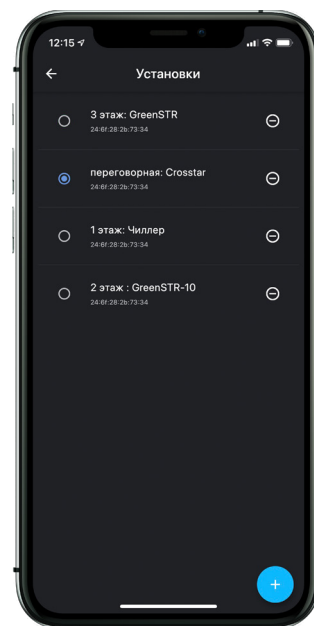
## CONTROL

- + Switching ON and OFF the unit from the control panel.
- + Automatic pressure maintenance with the function of automatic reduction of productivity at low temperatures of outside air.
- + Regulation of power of electric preheating at low outside air temperatures.
- + Automatic reduction of fan speed in case of insufficient preheating power.
- + The function of heating of air (at choice: water or electric heating) is provided in the controller.
- + The heating temperature is set during adjustment in the range from +16 to +26 °C.
- + Connection of electric drives of air gates is provided.
- + Input for alarm signal from the fire alarm system is provided.
- + Relay input for connection of the sensors of CO<sub>2</sub> / humidity / IAQ or any other sensor at the signal of which the unit switches to maximum speed.
- + Control of filter clogging on the counter of motor hours.
- + Setting the operation of the unit on a daily timer.



## ADDITIONAL OPTIONS

- ⊕ Water heating
- ⊕ Electric heating
- ⊕ Water / Freon cooling
- ⊕ Connection of the air quality sensor
- ⊕ Connection of the moisture sensor



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# RoofStar

Roof air conditioner

**POWER RANGE: 36 – 89 KW**



[click here](#)





*It is possible to choose additional optional equipment for roof air conditioners that highly improves the individual approach to each object.*

*Can be mounted both on the roof of the building and on the ground level on specially prepared site.*

Is a monoblock refrigeration unit with air cooling of the condenser.

## ASSIGNMENT

RoofStar can be used for complex air treatment in warehouse terminals, hypermarkets, manufacturing plants, stadiums, restaurants, cafes, theaters and other buildings.

## VARIANTS OF EXECUTION

Heat pump, gas heating, electric heating, only cooling, gas heating + heat pump, electric heating + heat pump.



Filled with highly efficient refrigerant R410a at the factory, which ensures their environmental safety and energy efficiency.

## ADVANTAGES

### SAVING SPACE AND MONEY

Thanks to installation on the roof of the building it does not need any special camera inside the building, which means no additional costs for its maintenance.

### BUILT-IN ECONOMIZER

Allows mixing and processing of fresh air and air from the room as well as supplying inside already processed clean air. This is also a significant saving of costs.

### HIGH ENERGY EFFICIENCY (EER AND COP)

High level of comfort created by the unit and reduction of expenses for electricity are reached thanks to the use of highly effective compressors and fans with intelligent control system.

### LOW NOISE LEVEL

Due to the use of low-noise fans and optimization of air flow, it was possible to reduce the noise level of the unit. Compressors are mounted on vibration dampers; to reduce the transmission of vibrations to building structures, the unit can be installed on anti-vibration spring supports.

### EASY INSTALLATION AND MAINTENANCE

The use of an intuitive control system, implemented design solutions (for example, the use of adjustable fans with direct drive) and easy access to the modules of the unit highly simplify the maintenance of the equipment.

### MONOBLOCK DESIGN OF THE CONDITIONER

Allows reducing time and costs of installation works as it does not need any laying of the refrigerant pipelines in buildings.

**AIR CONSUMPTION 3000-16000 m<sup>3</sup>/h**

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## DESIGN OF THE UNIT

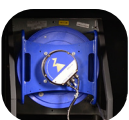
RoofStar units of the 5th up to the 16th standard size, have a frame construction consisting of the aluminum profile and galvanized panels filled with mineral wool. The panels are galvanized, externally painted with powder paint.



**Removable panels and doors** provide free access to all elements of the roof air conditioner, allowing easy maintenance. The RoofStar design allows combining the side of connection to external power sources and service accesses. The side is determined by the direction of air flow, either it is right or left.



**Fans**  
High-tech blades are used in condenser fans. Thus it was possible to reduce air turbulence, increase heat transfer efficiency and reduce the noise level of the unit.



**Fan of recirculation air**  
Placed in the support frame of the roof conditioner.



**The scroll compressor** ensures efficient operation of the unit at partial load.



**Controller  
Modicon M172**



**Filters** of class C4 (efficiency - more than 90%) and class of fire resistance M1; the scope of supply includes a galvanized frame, the presence of which simplifies the cleaning and replacement of the filter. Is included in the standard delivery set.

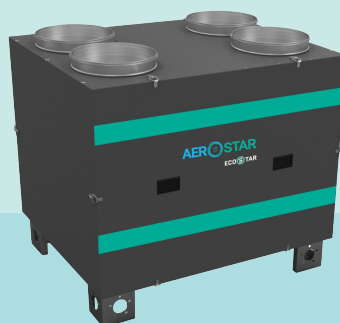


**Mixing chamber**  
Built-in economizer. Allows mixing and processing of fresh air and air from the room, as well as to give out already processed clean air inside.

Model	Unit	A5-36	A8-64	A12-68	A16-90
<b>Heat pump</b>					
Refrigeration capacity	kW*	36,12	63,76	67,68	89,82
Power consumption during cooling	kW*	10,59	17,96	19,06	25,3
Number of compressors	pcs.	2	2	2	3
Number of gas circuits	pcs.			1	
Boiling point	°C			5	
Condensation temperature	°C			50	
Refrigerant				R410A	
<b>Fans</b>					
Consumption of operating air	m <sup>3</sup> /h	5000	8000	12000	16000
Maximum free pressure	Pa	800	1000	1000	1000
Air flow (blowing of condenser)	m <sup>3</sup> /h	1x8000	2x9500	2x15000	4x9500
<b>Gas heating</b>					
Performance on the input	kW	34,85	65,0	82,0	130,0
Performance on the output	kW	33,56	62,93	80,03	125,86
Connection		G ¾"	G ¾"	G ¾"	G ¾"
<b>Electric radiator</b>					
Total productivity	kBT	36	54		90
Number of steps		2 ct. (9/27)	2 ct. (7/27)		3 ct. (36/27/27)
<b>Dimensions of the unit</b>					
Length (L)	mm	1415	1940	2300	2300
Width (W)	mm	2000	2200	3000	4405
Height (H)	mm	1415	1670	1870	1745
Weight	kg	625	925	1225	1375

\*parameters are calculated for 35oC/45% degrees of outside air. The manufacturer reserves the right to make changes that do not impair the performance of the equipment.

# VENTILATION FOR HOUSEHOLD SEGMENT





# VENTILATION FOR HOUSEHOLD SEGMENT

**Modern housing** is about comfort, safety and energy efficiency by default. Ventilation in the apartment / private house is a concern for the health of residents. It provides sense of well-being and sound sleep. The ventilation system maintains the required level of oxygen in the air and controls the CO2 content. Protects from dust and dirt. Filters allow only cleared fresh air from the street to be supplied to the room.



## MAINTAINS OPTIMAL HUMIDITY IN THE ROOM

Provides the correct water balance of skin and hair, no dryness. Static surface tension disappears and there is almost no dust in the apartment.



## AIRING IS NOT AN ALTERNATIVE TO VENTILATION

This will not provide a comfortable climate and the necessary air parameters. Open windows are the source of noise, dust, unpleasant odors and insects from the street, cold drafts, and the most important – the cause of heat loss.

## WHAT WILL YOU GET?



Quiet equipment that will not interfere with your work or rest.



Thanks to the most energy-efficient components you save on electricity bills.



All units are equipped with a built-in Wi-Fi module that allows you to control the basic parameters of Aerostar equipment using a smartphone from any part of the world.



Easy to install and configure equipment because it is supplied with a "Plug-and-Play" system.



The equipment is delivered in the compact case, easily adapts to the interior.



You get all the units already with built-in automation. Controllers and all control elements are configured and ready to use.

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CROSSSTAR MINI



TYPE OF THE UNIT

energy saving supply and exhaust unit with rotary recuperator



CAPACITY

Up to 1600 m³/h



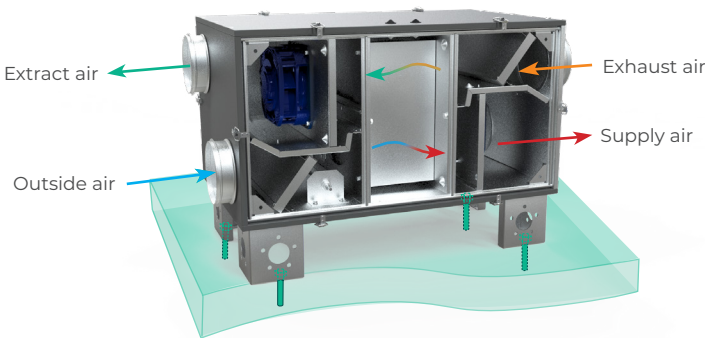
FIELD OF APPLICATION

small rooms, such as nursery schools, offices, banks, restaurants, shops, homes and others, where savings due to minimal energy consumption are of high priority

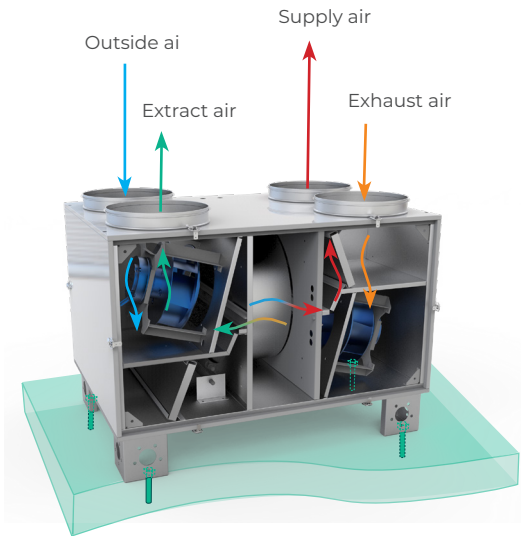


**Saves up to 82% of energy and operation costs** due to the most energy-efficient components.

Modification of the unit **CSMINI X** with air release aside



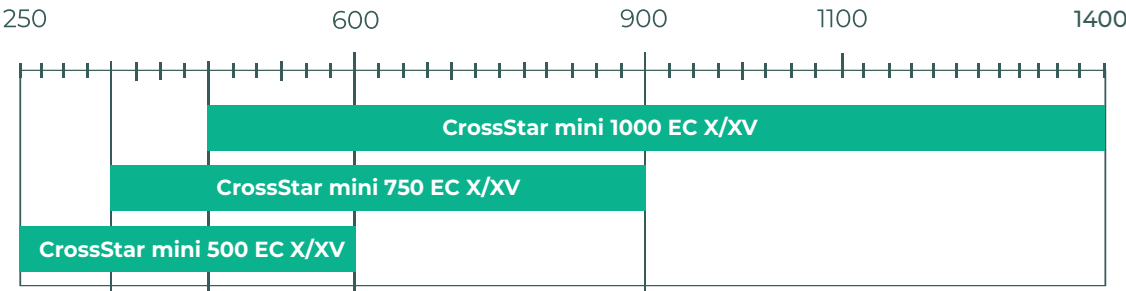
Modification of the unit **CSMINI XV** with air release upwards



**Standard model range is presented with 3 standard sizes:**

Air consumption

m³/h



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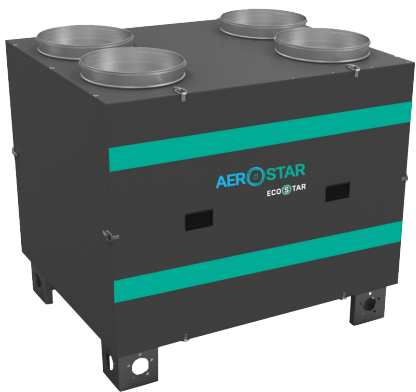
TECHNICAL DATA	CS MINI 500 X	CS MINI 500 XV	CS MINI 750 X	CS MINI 750 XV	CS MINI 1000 X	CS MINI 1000 XV
Productivity, m³ / h	1 ~ 230 B, 50 Гц					
Fan power, kW	2x0,17	2x0,17	2x0,17	2x0,17	2x0,5	2x0,5
Fan rated current, A	2x1,5	2x1,5	2x1,5	2x1,5	2x2,2	2x2,2
Filter	Coarse / ePM10					
Preheating power, kWt	0,85	0,85	1,2	1,2	3,6	3,6
Height (H, mm)	485	485	550	550	628	620
Width (B, mm)	562	662	662	662	800	800
Length (L, mm)	900	900	950	950	1100	1100
Legs (mm)	85	85	85	85	85	85
Size of the connected air ducts	Ø 160	Ø 160	Ø 250	Ø 250	Ø 315	Ø 315

ACOUSTIC CHARACTERISTICS									
Octave band (Hz)	63	125	250	500	1000	2000	4000	8000	General level
LW TO THE ENVIRONMENT									
CS mini 500 X/XV	31	36	31	35	33	27	20	15	41
CS mini 750 X/XV	31	39	41	33	31	24	17	12	44
CS mini 1000 X/XV	65	65	52	44	40	31	27	24	68

## ADDITIONAL OPTIONS

- ⊕ Water heating
- ⊕ Electric heating
- ⊕ Water cooling
- ⊕ Freon cooling
- ⊕ Connection of the air quality sensor / humidity sensor

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TYPE OF THE UNIT

energy saving supply and exhaust unit with plate recuperator



CAPACITY

Up to 1600 m<sup>3</sup>/h



FIELD OF APPLICATION

Complex solution for local ventilation of small and medium-sized residential and office premises



Provides well-being and sound sleep.

It is important for human health that the level of carbon dioxide in the apartment does not exceed 600 ppm.



Saves up to 79% of energy and operation costs

due to the most energy-efficient components.



Prevents the formation of excessive moisture.

The tightness of modern houses leads to the accumulation of moisture and formation of condensate, which threatens with the growth of fungi, mold and reproduction of dust mites.



Protects against viruses, bacteria, allergens.

Filters allow only cleared fresh air from the street to be supplied to the room.



Collaboration of innovations. Comfort. Cosiness. Safety.

Standard model range is presented with 3 standard sizes:

Air consumption

m<sup>3</sup>/h

250

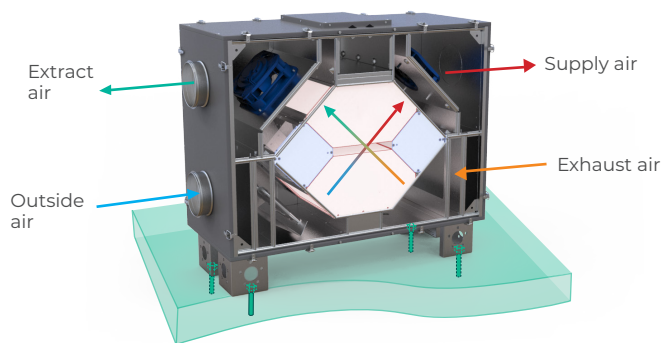
800

1400

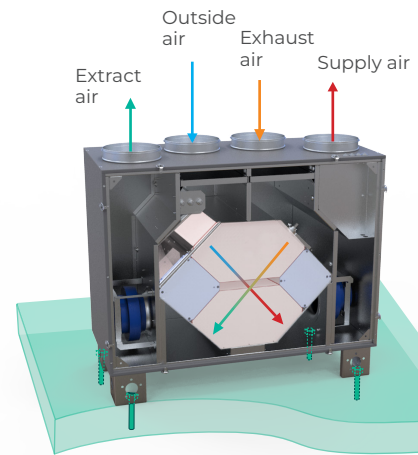
		EcoStar 1000 EC X/XV	
		EcoStar 750 EC X/XV	
EcoStar 500 EC X/XV			



### Modification of the unit **ECOSTAR X** with air release aside



### Modification of the unit **ECOSTAR XV** with air release upwards



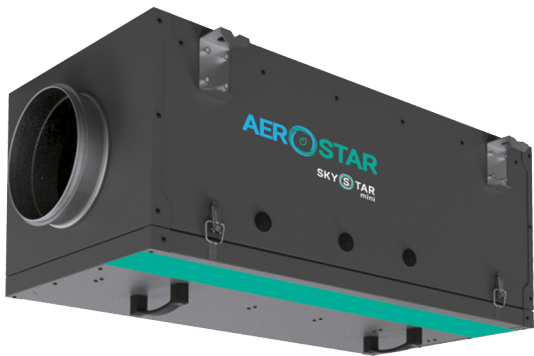
TECHNICAL DATA	500 EC X/XV + BYPASS	750 EC X/XV + BYPASS	750 EC X/XV + BYPASS
Productivity, m <sup>3</sup> / h	500	750	1000
Power supply / voltage / frequency	1~/230/ 50		
Recuperator efficiency, %	80	79	77
Filter, inflow	G4/M5/F7		
Filter, extract	G4/M5/F7		
Preheating power, kWt	1,2	2,55	2,55
Engine rated power, kWt	2x0,17	2x0,17	2x0,5
Weight, kg	92	109	115

	Height (H, mm)	Width (B, mm)	Length (L, mm)	Legs (mm)	Size of the connected air ducts
ES 500 X	782	498	1070	150	Ø 160
ES 500 XV	782	498	1070	150	Ø 160
ES 750 X	922	598	1150	150	Ø 315
ES 750 XV	922	598	1250	150	Ø 250
ES 1000 X	922	598	1150	150	Ø 315
ES 1000 XV	922	598	1250	150	Ø 250

### ADDITIONAL OPTIONS

- ⊕ Water heating
- ⊕ Electric heating
- ⊕ Water cooling
- ⊕ Freon cooling
- ⊕ Bypass
- ⊕ Connection of the air quality sensor / humidity sensor

SKYSTAR MINI



TYPE OF THE UNIT

Compact supply units with suspended mounting



CAPACITY

Up to 1400 m³/h



FIELD OF APPLICATION

office buildings, commercial and other premises with limited space



High noise and heat insulation of the unit.

The case is made of galvanized steel packed with of foil-coated mineral wool with thickness 30 mm.

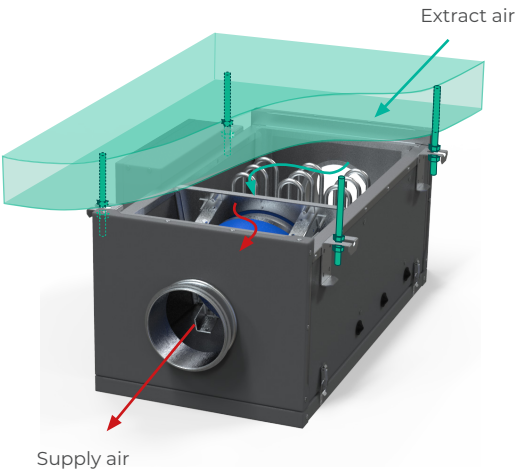


**Easy to install** even over a suspended ceiling, due to ultra compact case (height of installation from 345 mm).

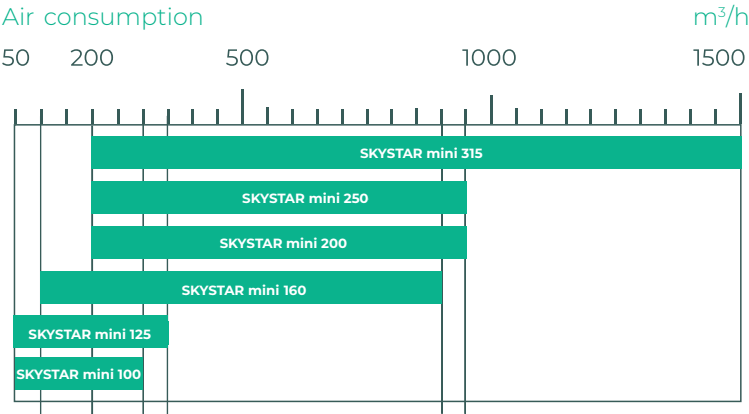


Saves useful space of expensive commercial real estate, as it is attached to the ceiling.

Modification of the unit SKYSTAR MINI



Standard model range is presented with 6 standard sizes:



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Mounting brackets allow you to easily fix the unit.  
A polyurethane foam seal is included with the air ducts, which ensures good tightness.  
Convenient quick release panels simplify unit maintenance.

TECHNICAL DATA	UNIT VOLTAGE, V / PHASE / C	MAXIMUM FAN POWER, KWT	POWER OF ELECTRIC HEATER, KWT	FILTER	HEIGHT (H, MM)	WIDTH (B, MM)	LENGTH (L, MM)	LEGS (MM)	SIZE OF THE CONNECTED AIR DUCTS
SkyStar mini 100-1,2-1	1~230/50	0,05	1,2	Coarse / ePM10	345	403	800	-	Ø 100
SkyStar mini 125-2,4-1		0,05	2,4		345	403	800	-	Ø 125
SkyStar mini 160-2,4-1		0,16	2,4		345	403	800	-	Ø 150
SkyStar mini 160-3,4-1			3,4		345	403	800	-	Ø 150
SkyStar mini 160-5,1-3	3~400/50		5,1		345	403	800	-	Ø 150
SkyStar mini 160-6,0-3			6,0		345	403	800	-	Ø 150
SkyStar mini 200-3,4-1	1~230/50	0,16	3,4		445	503	800	-	Ø 200
SkyStar mini 200-5,1-3	3~400/50		5,1		445	503	800	-	Ø 200
SkyStar mini 200-6,0-3			6,0		445	503	800	-	Ø 200
SkyStar mini 250-3,6-3		0,16	3,6		445	503	800	-	Ø 250
SkyStar mini 250-6,0-3			6,0		445	503	800	-	Ø 250
SkyStar mini 250-9,0-3	9,0		445		503	800	-	Ø 250	
SkyStar mini 315-6,0-3	3~400/50	0,22	6,0		445	503	800	-	Ø 315
SkyStar mini 315-9,0-3			9,0		445	503	800	-	Ø 315
SkyStar mini 315-12,0-3			12,0		445	503	800	-	Ø 315
SkyStar mini 315-15,0-3			15,0		445	503	800	-	Ø 315
SkyStar mini 315-18,0-3			18,0		445	503	800	-	Ø 315

## ADDITIONAL OPTIONS

-  Freon cooling
-  Connection of the air quality sensor / humidity sensor



click here



TYPE OF THE UNIT

Compact multifunctional ceiling-mounted supply and exhaust unit with plate recuperator



CAPACITY

Up to 2400 m<sup>3</sup>/h



FIELD OF APPLICATION

any type of premises such as: private houses, apartments, restaurants, salons, workshops, schools, office buildings and even "clean" premises with high air requirements



**Easy control** at any time from anywhere in the world with all convenient devices.



**Ultra-compact case.** Thickness of panels of the case is 30 mm. Reliable heat and noise insulation thanks to sandwich panels from foil mineral wool.

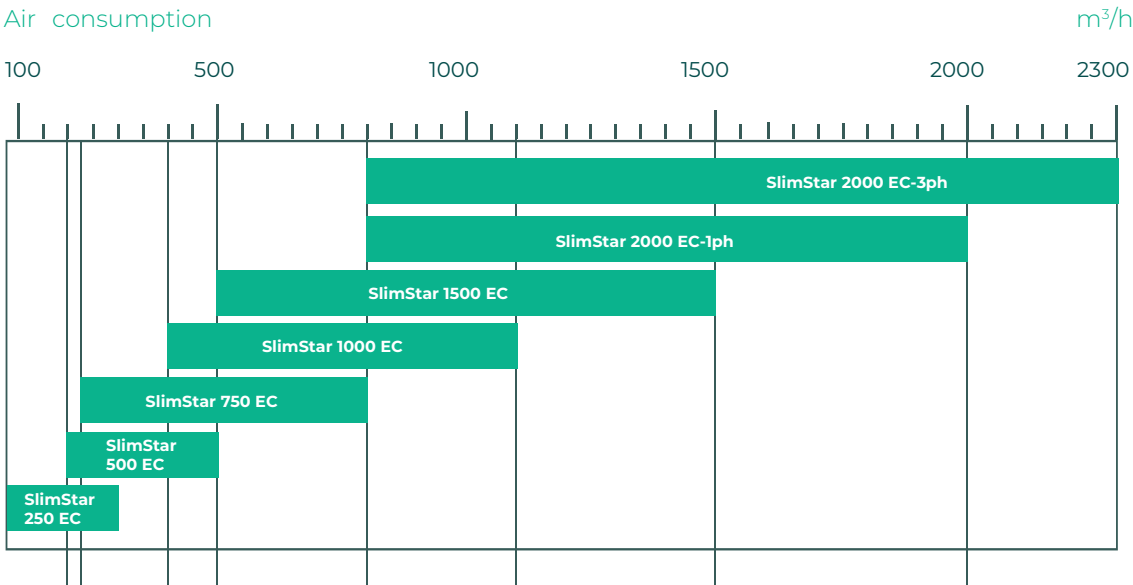


**Effective heat recovery.** Saves up to 79% of energy and operation costs due to the most energy-efficient components.



**Convenient unit maintenance** thanks to the removable door.

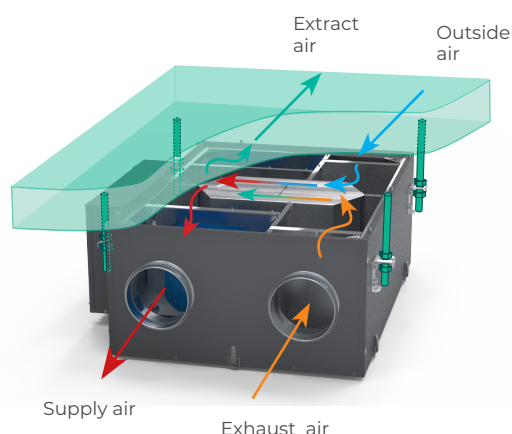
Standard model range is presented with 7 standard sizes:



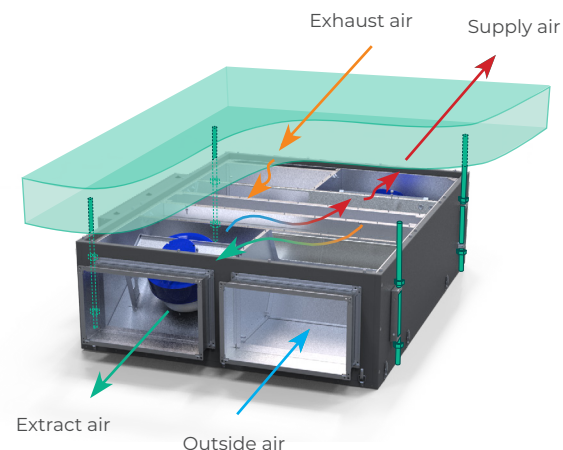
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## Modification of the unit **SLIMSTAR** with round connection (<1000 m<sup>3</sup>)



## Modification of the unit **SLIMSTAR** with square connection (>1000 m<sup>3</sup>)

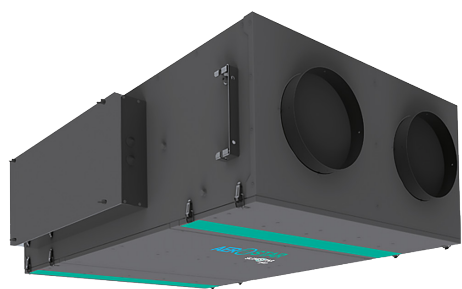


TECHNICAL DATA	250 EC	500 EC	750 EC	1000 EC	1500 EC	2000 EC – 1PH	2000 EC – 3PH
Productivity, m <sup>3</sup> / h	250	500	750	1000	1500	2000	2000
Power supply / voltage / frequency	1~230/50						3~400/ 50
Recuperator efficiency, %	88,1	88,1	88,3	86,6	87,6	87,8	87,2
Filter, inflow	Coarse / ePM10						
Filter, extract	Coarse / ePM10						
Preheating power, kWt	0,6	1,2	2,0	3,2	3,2	3,2	5,1
Engine rated power, kWt	2x0,17	2x0,17	2x0,17	2x0,5	2x0,5	2x0,5	2x1,05
Height (H, mm)	360	300	390	390	500	500	500
Width (B, mm)	775	845	980	980	1445	1845	1845
Length (L, mm)	1000	1350	1600	1600	1845	1960	1960
Legs (mm)	-	-	-	-	-	-	-
Size of the connected air ducts	Ø 160	Ø 200	Ø 250	Ø 250	(a×b) 500x300	(a×b) 600x300	(a×b) 600x300

### ADDITIONAL OPTIONS

- ⊕ Water heating
- ⊕ Electric heating
- ⊕ Water cooling
- ⊕ Freon cooling
- ⊕ Bypass
- ⊕ Connection of the air quality sensor / humidity sensor
- ⊕ Steam humidification

# SLIMSTAR PAP



### TYPE OF THE UNIT

Compact supply and exhaust ventilation unit with plate recuperator



### CAPACITY

Up to 1000 m³/h



### FIELD OF APPLICATION

for air ventilation in non-industrial facilities: offices, residential buildings, educational institutions



**Effective heat recovery.** Saves up to 54% of energy and operation costs due to the most energy-efficient components.



**Convenient and fast installation thanks to the ultra compact case** from galvanized steel, heat and noise insulated with foiled mineral wool.

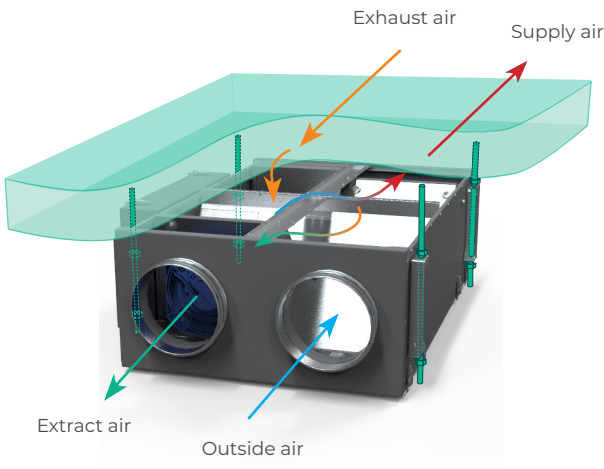


**ER-paper.** The unique structure of recuperator membrane allows not only to heat, but also to humidify the supply air.



**Freecooling mode** reduces the cost of air conditioning in the off-season, at night as well as protects against icing.

## Modification of the unit SLIMSTAR PAP 500-EC-P



Technical data	Height (H, mm)	Width (B, mm)	Length (L, mm)	Legs (mm)	Size of the connected air ducts
SS PAP 500-EC-P	320	775	938	-	Ø 200
SS PAP 1000-EC-P	438	969	1244	-	Ø 250

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SPECIFICATION	UNITS	500-EC-P	1000-EC-P
Maximum air flow	m³/h	500	1000
Free pressure (inflow / exhaust)	Pa	450/450	170/170
RECUPERATOR			
OUTDOOR AIR			
Air consumption (external / extract)	m³/h	500	1000
Inlet air temperature	°C	-10	-12,5
Relative humidity at the entrance	%	80	33,0
Outlet air temperature	°C	6,05	5,63
Humidity at the outlet	%	70,5	59,71
External pressure loss	Pa	115	89
Recovery efficiency	kW	3,88	8,38
EXHAUST AIR			
Inlet air temperature	°C	20	
Humidity at the entrance	%	50	
Outlet air temperature	°C	3,95	2,37
Humidity at the outlet	%	90,2	98,55
Efficiency	%	51,15	55,1
SUPPLY FAN			
Fan type	Ziehl-Abegg EC		
Productivity	m³/h	500	1000
Installed power	kW	0,17	
Nutrition	V / phase / Hz	230/1/50	
Rated current	A	1,5	
FILTER			
Type	G4		
EXHAUST FAN			
Fan type	Ziehl-Abegg EC		
Productivity	m³/h	500	1000
Installed power	kW	0,17	
Nutrition	V / phase / Hz	230/1/50	
Rated current	A	1,5	
WEIGHT	kg	45	125

## ACOUSTIC CHARACTERISTICS

OCTAVE BANDS (HZ)	63	125	250	500	1000	2000	4000	8000	GENERAL
500-EC-P									
Lw at O.A. Input [dB]	39	48	56	53	53	57	54	52	63
Lw at S.A. Output [dB]	38	46	53	60	50	54	51	53	63
Lw at E.A. Input [dB]	36	43	45	30	24	31	32	36	48
Lw at E.A. Output [dB]	40	48	58	73	73	75	69	63	79
Lw into the environment	32	38	39	49	46	42	35	31	52
1000-EC-P									
Lw at O.A. Input [dB]	36	48	57	51	50	56	54	51	62
Lw at S.A. Output [dB]	34	48	55	51	46	50	47	51	59
Lw at E.A. Input [dB]	33	43	46	28	21	30	32	35	48
Lw at E.A. Output [dB]	36	50	60	64	69	71	65	61	75
Lw into the environment	29	42	41	40	42	39	32	29	48



Cosmopolit Mall, Kyiv,  
Vadyma Hetmana Str.



Epicenter (Logistic center),  
Kalynivka village



ATB, Volodymyr-Volynskyi,  
Kovelska Str.



Ice arena, Kramatorsk



Cottage community "Green  
Hills" (sports complex),  
Vita-Poshtova village



Real estate house,  
Kharkiv, Pavlivska Str.



Novus, Kyiv, Bohatyrskaya Str.



Novus, Kyiv, Ivana Puliukha Str.



Novus, Kyiv,  
Bratislavskaya Str.



Novus, Chaiky village



Novus, Kyiv, Peremohy Ave.



Novus, Bucha,  
Kyievo-Myrotska Str.

## REALISED PROJECTS



Casino, Petropavlivska  
Borshchahivka



Casino, Odesa



Casino, Chernivtsi



DR. BOGOMOLETS institute  
of dermatology and cosmetology,  
Kyiv, Tarasa Shevchenka blvd.



Casino, Khmelnytskyi



Casino in "Atmosfera"  
shopping mall, Kyiv



"Nashe Nebo" shopping mall,  
Kriukivshchyna village



Ibis Hotel, Kyiv



"Kazka" market, Kharkiv



Blockbuster Mall, Kyiv,  
Stepana Bandery Ave.



Residential complex Smart  
Plaza Obolon, Kyiv



Toys factory "New  
Horizons", Kyiv

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Bandurskyi oil extraction factory LLC,  
Bandurka village



PrJSC Myronivska Poultry Farm,  
Canteen, Stepani village



Office center, Kyiv,  
Olenivska Str.



Business centre "Avenue 53",  
Kyiv



Office premises, Kyiv,  
M.Maksymovycha Str.



Lyceum "Design-education",  
Boryspil



Toys factory "New Horizons",  
Kyiv, Korabelna Str.



Procredit Bank, Residential  
Complex San Francisco, Kyiv,  
Premohy Ave.



Residential Complex  
Respublika (school and  
nursery school), Kyiv



Country residence,  
Chubynske village



Casino, Zhytomyr



Cinema "Krakiv", Kyiv,  
Rusanivska Embankment

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## REALISED PROJECTS



Residential Complex “Lux Hall”,  
Dnipro



Residential Complex  
“Smart Plaza Obolon”, Kyiv



Ukrainian IT-factory  
UNIT Factory, Kyiv



Business City “Tekhnopark”,  
Lviv



Residential Complex “Panorama”,  
Dnipro



Hotel Complex “ALOFT”,  
Kyiv



Residential Complex  
“Smart Plaza Polytech”, Kyiv



First organic office center  
“ASTARTA”, certified according  
to the Breeam standard, Kyiv



Residential Complex  
Respublika (school  
and nursery school),  
Kyiv



Novus, Residential Complex  
“Lipinka”, Kyiv



Novus, Vyshneve



Novus at M. Rakovoi Str.,  
Kyiv

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Pharmaceutical factory  
"Biopharma" LLC,  
Bila Tserkva



Zaporizhzhia NPP,  
Energodar



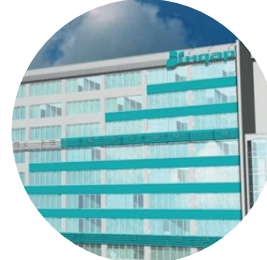
Plank Electrotechnic,  
Bila Tserkva



Plant for the production of electrical  
cable networks "Elektrokontakt  
Ukraine", Brody



Enhanced Resource Company  
(ERC), Kyiv



PRJSC "INDAR", Kyiv



"BIOPHARM AT" LLC,  
Kharkiv region



Modern-Expo Group LLC,  
Strumivka, Lutsk



Office "Integral-Bud M8",  
Kyiv, Moskovska Str.



Residential Complex  
"New England" (Housing  
Maintenance Office), Kyiv



Residential Complex  
"Green Wood", Odesa



"CITYHOTEL", Kyiv

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## REALISED PROJECTS



Shopping mall "Chocolate", Kyiv



Shopping mall  
"Kadorr City Mall", Odesa



Lutsk city district court  
of Volyn region, Lutsk



"Cherkasy Academic Music  
and Drama Theater after  
T.G. Shevchenko", Cherkasy



Nursery school "Academy  
Ecoland" in Residential  
complex "Tetris Hall", Kyiv



Taras Shevchenko National  
Academic Opera and Ballet  
Theater of Ukraine, Kyiv



Ivano-Frankivsk Academic Music  
and Drama Theater after I. Franko,  
Ivano-Frankivsk



School № 19, Kyiv



Shopping and entertainment  
center "Amstor" cities  
Severodentsk and Dnipro



"Labor Reserves" Stadium  
Dnipro



Family horse club  
DERGACHOV, Veremia village



Fitness center Sport life,  
Kryvyi Rig

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Ornament Mall, Kyiv



Varus Mall, Kyiv, Palladina Ave.



KFC Restaurant, Kyiv



Car showroom Jaguar, Kharkiv



Car showroom Bentley, Boryspil



Shopping mall 'MYR', Vinnytsia, Keletska Str.



Shopping mall 'Appetite', metro station Osokorky



Sports Complex 'Prometei', Kamianske



Recreation center Horse yard 'Leleky', Rudka village



Shopping Mall 'Lavina Mall', Kyiv



Supermarket 'Silpo' in the shopping mall 'Lavina Mall', Kyiv



Supermarket 'Silpo' in the residential complex 'Smart Plaza Obolon', Kyiv

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Residential complex "Smart Plaza Polytech", Kyiv



Residential complex "Green Wood", Odesa



Residential complex "Premier Tower", Vinnytsia



Sports and wellness centre, Vyshenky village



Lyceum "Design-education", Boryspil



Cinema "Krakiv", Kyiv, Rusanivska Embankment



Municipal organisation "KMKDC" ("KCCDC"), Kyiv



Unit City Campus B11, B14, B15, Kyiv, Sim'i Khokhlovykh Str.



Residential complex "Jack House", Kyiv



Cottage community "Green Hills" (sports complex), Vita-Poshtova village



Lyceum "Design-education", Boryspil



Hetman Petro Sahaidachnyi National Army Academy, Training center No.184, Starychi village

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“Elektrokontakt Ukraine” Plant,  
Lviv region, Brody



Warehouse complex  
of “BaDM” corporation, Dnipro



Ekotrans LLC, Mykolaiv



Workshop for the production of  
polyurethane foam «Katerynoslav  
furniture workshops»,  
Kirovograd region, Olikhsandria



Dnipro specialized clinical  
center of mother and child  
named after prof. Rudnev,  
Dnipro



PJSC Pharmaceutical  
Factory «Viola», Zaporizhia



Khmelnytskyi City State  
Veterinary Hospital,  
Khmelnytskyi



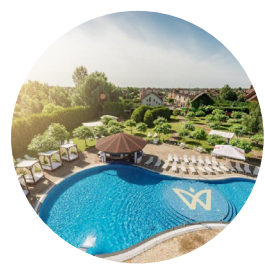
Municipal enterprise  
«Dnipropetrovsk Regional  
Clinical Ophthalmologic  
Hospital», Dnipro



Toys factory  
“New Horizons”, Kyiv



Nursery school “Academy  
Ecoland” in Residential  
complex “Tetris Hall”, Kyiv



WISH AQUA&SPA RESORT,  
Vyshenky village



Specialized secondary  
school No.9, Dnipro

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