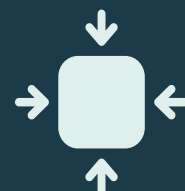
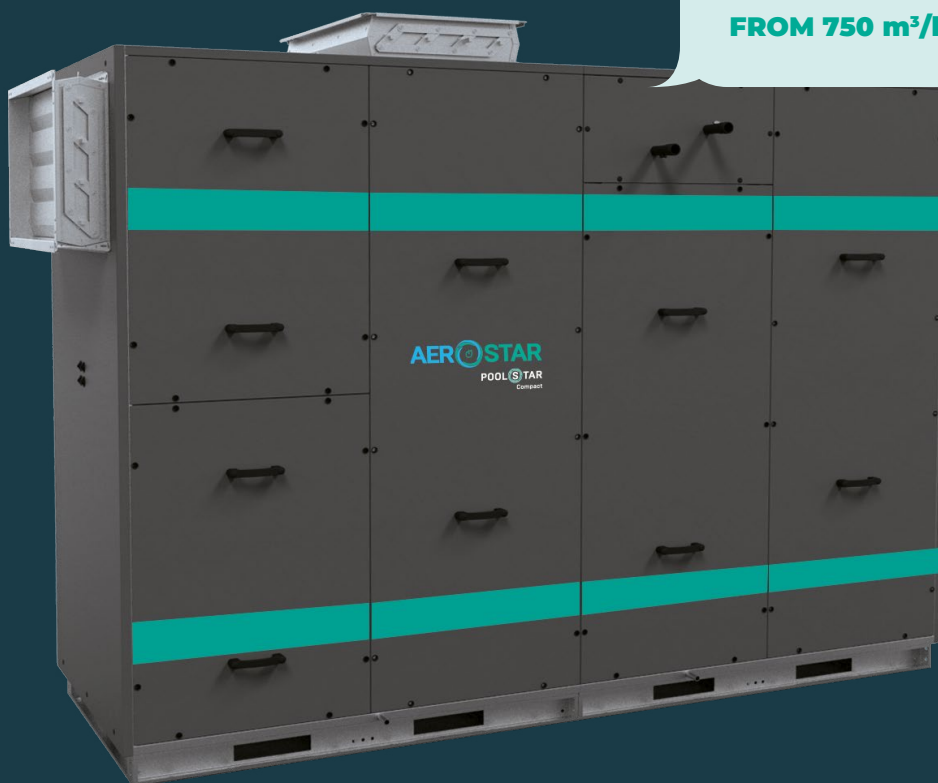




PoolStar compact



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



CAPACITY
FROM 750 m³/h TO 3000 m³/h

Solutions that work



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**

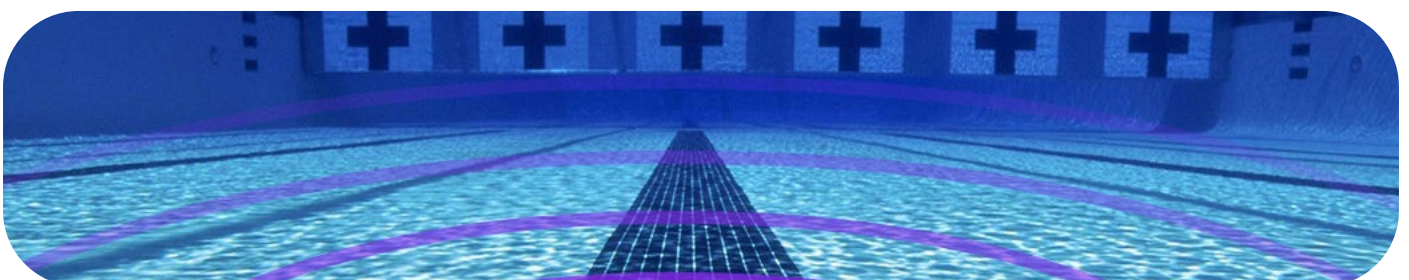
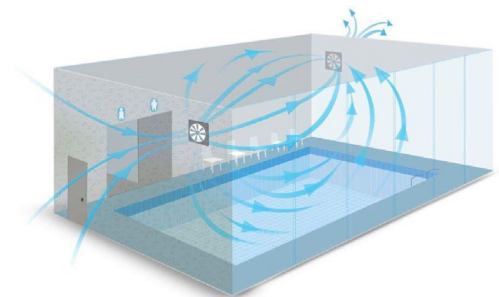
At very high relative humidity a feeling of suffocation occurs. High humidity reduces evaporation through the skin and limits regulatory capacities of the body to maintain body temperature at the constant level. Therefore, the humidity control in the pool at a large extent determines the feeling of comfort.



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.



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.

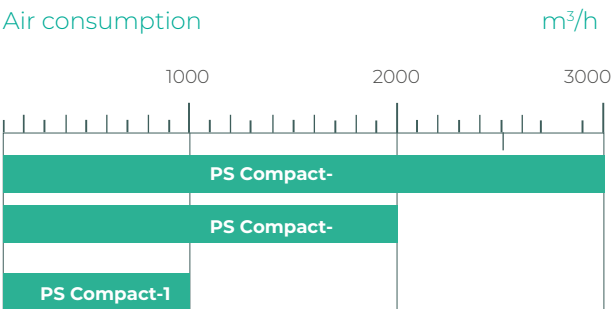


High-quality steel coated with anti-corrosion powder paint
The environment of POOLSTAR operation is aggressive because of chlorine usage in swimming pools. In addition, there is constant contact with humid air. For additional protection against corrosion, all interior panels are made of high-quality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

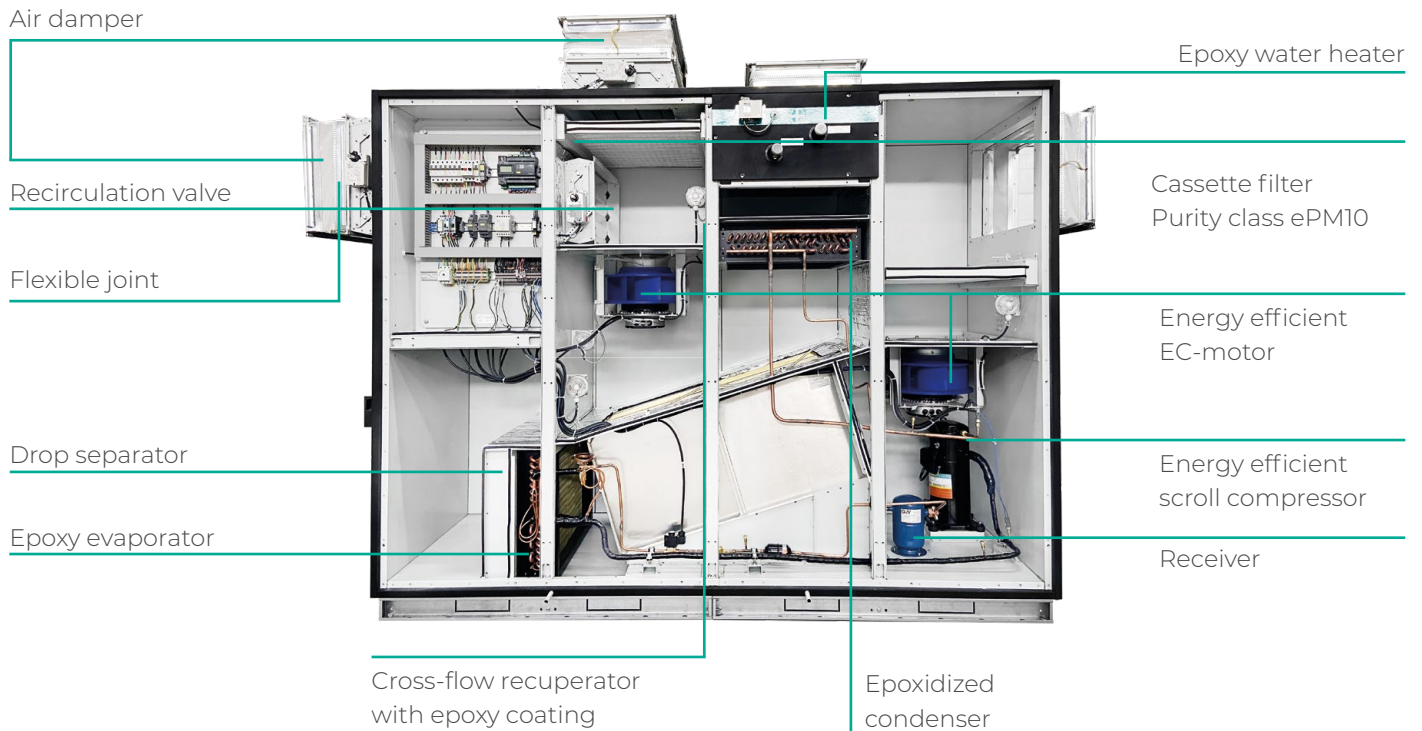


Energy saving mode of operation
PoolStar Compact units are equipped with a set of automation that can be easily integrated into a single management system "Smart Home".

Standard model range is presented with 3 standard sizes:



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.

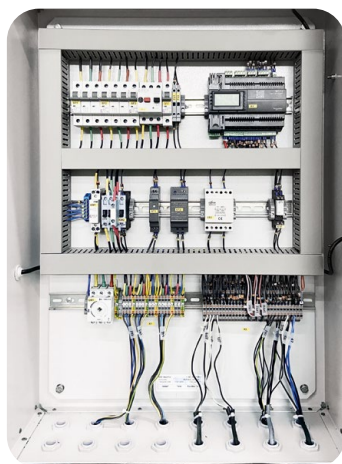
AIR DAMPER

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.

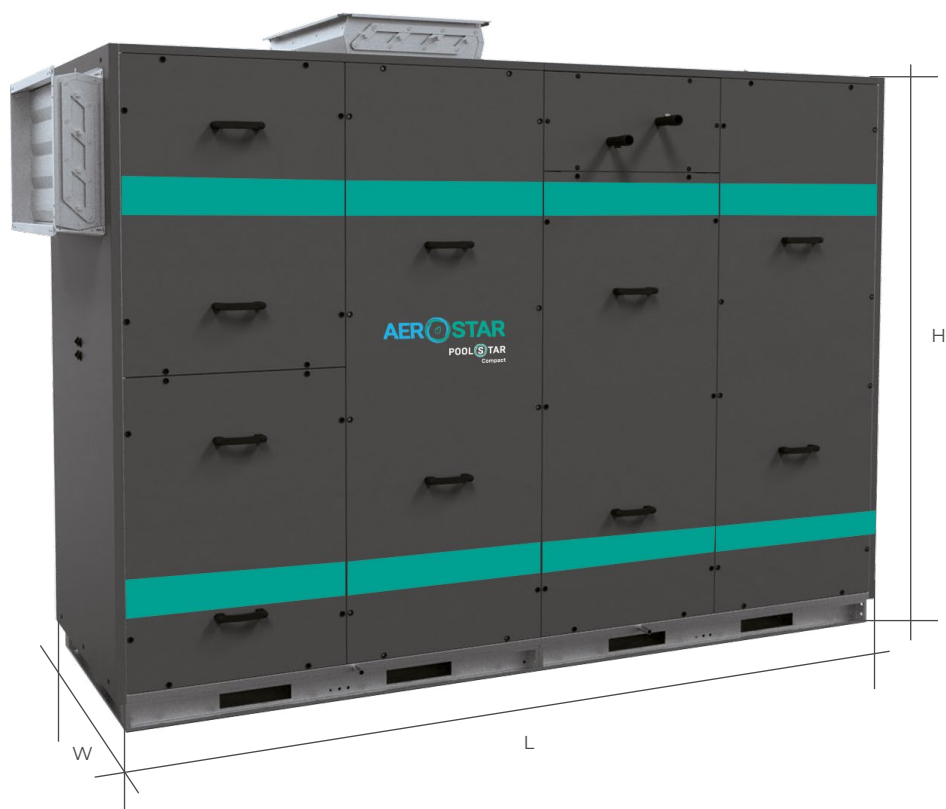
BASIC CONFIGURATION



BUILT-IN AUTOMATION

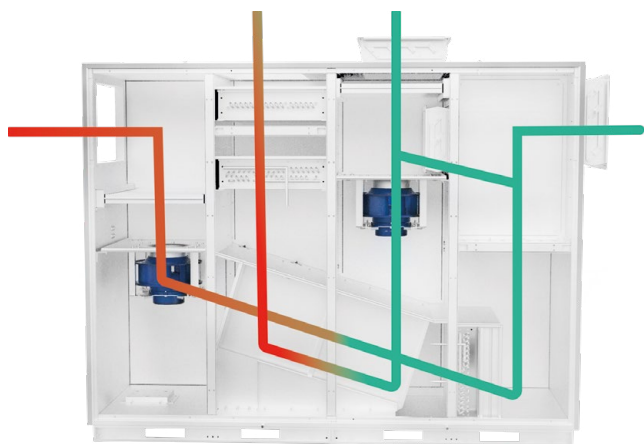
Depending on the thermophysical characteristics of the room, automation system selects the optimal operation saving mode of equipment for ventilation, dehumidification and maintenance of the set temperature in the room.

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			

OPERATING MODES



Winter (main mode)

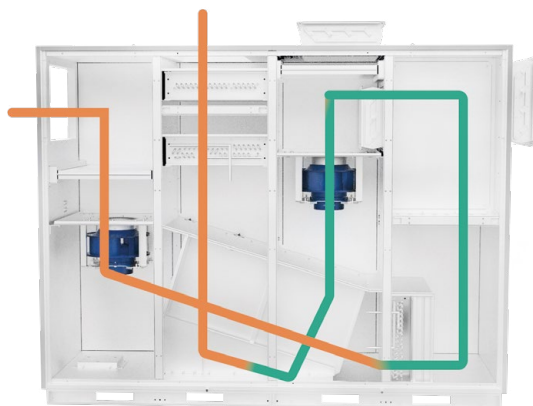
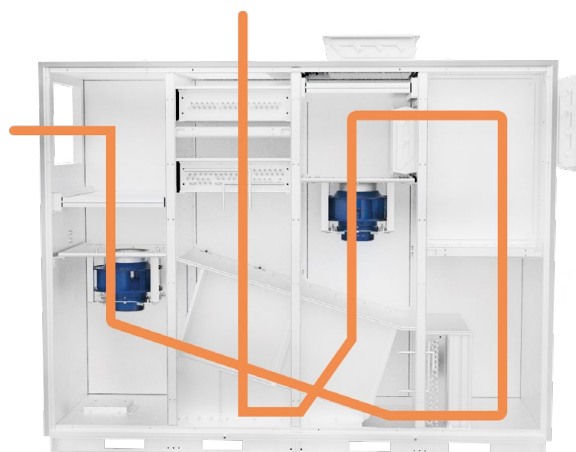
Main mode for winter time when moisture is removed and fresh air is supplied to the pool. The mode is activated when the actual humidity level exceeds the set humidity value on the controller. Recommended parameters:
Admixing of fresh air – 30%



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%

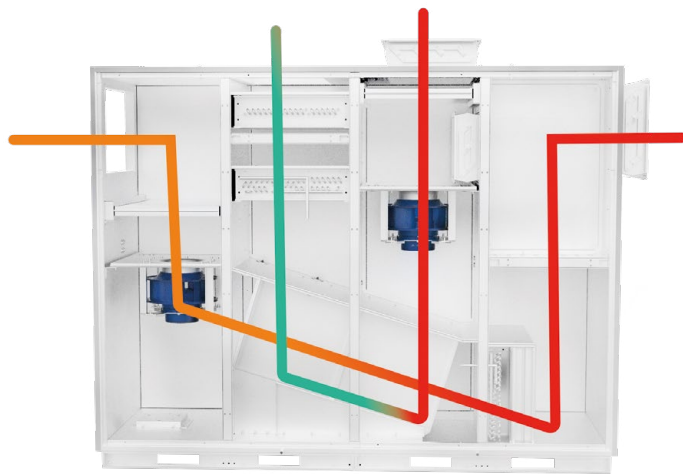
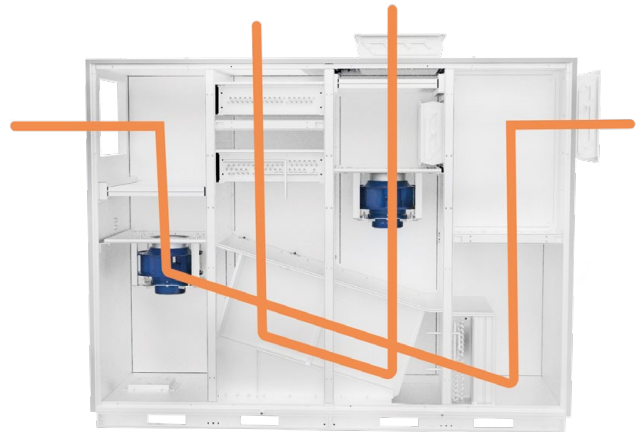
РЕЖИМИ РОБОТИ



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.

REALISED PROJECTS



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



Sport Life,
Lviv



Fitness centre "Vertical",
Odessa



WISH AQUA&SPA RESORT,
Vyshenky village



Kupava,
Brovary



Sport Life, Retroville Mall
Kyiv

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