

# Klimör



## **KLIMOR EVO & UV-C**

MODULAR AIR HANDLING UNIT WITH DIRECTIONAL  
UV-C LAMP HYGIENIZATION SYSTEM

# Klimor

## **Klimor is a Polish brand rooted in a long-standing tradition of providing first-class ventilation and air-conditioning solutions.**

Precursor of the first air handling unit manufactured in Poland - today one of the largest companies operating in the market of HVACR, systems, with more than 300 Employees.

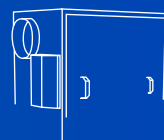
Initially associated with the shipbuilding industry, over the years Klimor has expanded its portfolio to include systems for the construction industry and a group of specialised solutions dedicated to rooms with higher air treatment requirements. Today, Klimor provides solutions for all key customer markets.



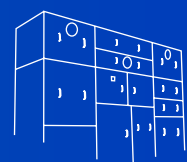
**MODULAR AIR  
HANDLING AND  
VENTILATION UNITS**



**COMPACT AIR  
HANDLING UNITS**



**COMPACT  
RECUPERATIVE  
UNITS**



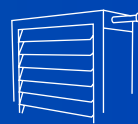
**AIR-CONDITIONING  
CABINETS**



**LAMINAR FLOW  
FLOORS**



**RECIRCULATION  
MODULES**



**HEATING  
AND-COOLING  
UNITS**



**VENTILATORS  
WITH ABSOLUTE  
FILTERS**

# KLIMOR EVO & UV-C

## Modular air handling unit with directional UV-C lamp hygienization system

The solutions used with the UVC-S section have an impact on:



improving the working and living  
conditions of people indoors



microbiological safety



energy consumption  
and optimization of operating costs

**UV-C radiation 'cleans' the surface  
inside the air handling unit, where  
biofilm normally accumulates, which:**



covers and adheres to every  
**mechanical component**



**penetrates into gaps**



**develops between  
exchanger fins**



settles on condensate drip trays  
and spreads freely with the air stream  
**with the air flow inside the plant**

Microbicidal protection is provided by the use of high-efficiency radiant heaters that produce in the light spectrum, **a UV-C wavelength of approximately 254 nanometres.**

The radiator housings are equipped with reflectors to direct the reflected light, which has the effect of intensifying the action in the area of greatest risk. **Most bacteria, moulds and viruses are inactivated by prolonged UV-C exposure.**

This significantly reduces the formation of biofilm on their surfaces, **which means that chemical cleaning of the exposed surfaces will be less necessary and troublesome**

# KLIMOR EVO & UV-C

## Modular air handling unit with directional UV-C lamp hygienization system

The process of air stream and surface hygienization in Klimor EVO air handling units is a multi-directional action and is based on:

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effective filtration of the air stream, which **retains solid particles, including pathogens**

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the use of directional UVC radiation, **which superficially destroys pathogens and prevents their multiplication and spread throughout the installation**

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**In combination with the ePMx filtration system used, it results in:**

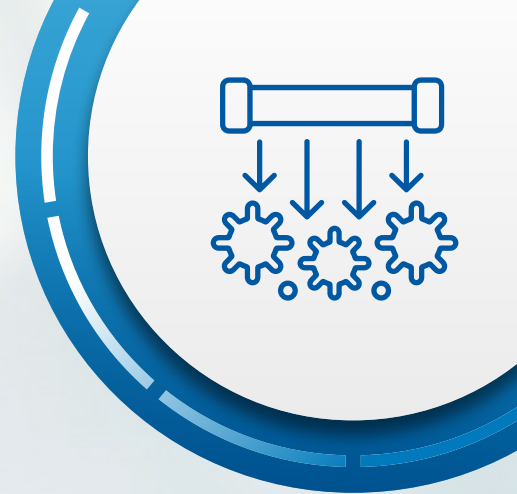
**hygiene maintenance**  
in the installation

**improvement of air quality**  
Indoors

**maintaining recovery efficiency**

**prevention of pressure drop increase**  
on exchangers

**EFFECTIVE  
VERSATILE  
OPTIMAL**



## **Directional UV-C hygienization system**

**The directional UV-C hygienization system in Klimor EVO air handling units contributes to the deactivation of pathogens, including bacteria, viruses, fungi, moulds, accumulated on the surfaces of selected elements implemented inside the air handling unit.**

## UV-C directional radiator



made of **anodised aluminium and quartz glass**



fitted with a reflector to intensify the action of the **UV-C** rays in the area of greatest risk



is water- and dust-proof, **class IP55**



has a ballast that ensures warm ignition **extending service life**



If there are inspection windows (standard for Klimor EVO-H units) in the UVC-S **section, a specially designed filter is used to block the penetration of UV-C radiation harmful to the eyes and skin. Despite the filter applied, it is not recommended to observe the space inside the UVC-S section for a long time.**

Directional UV-C hygienization can be used in sections with cooling and/or filtration functions to irradiate the surfaces of the cooler fins on the air outlet side and the condensate drainage sump, filter surfaces.

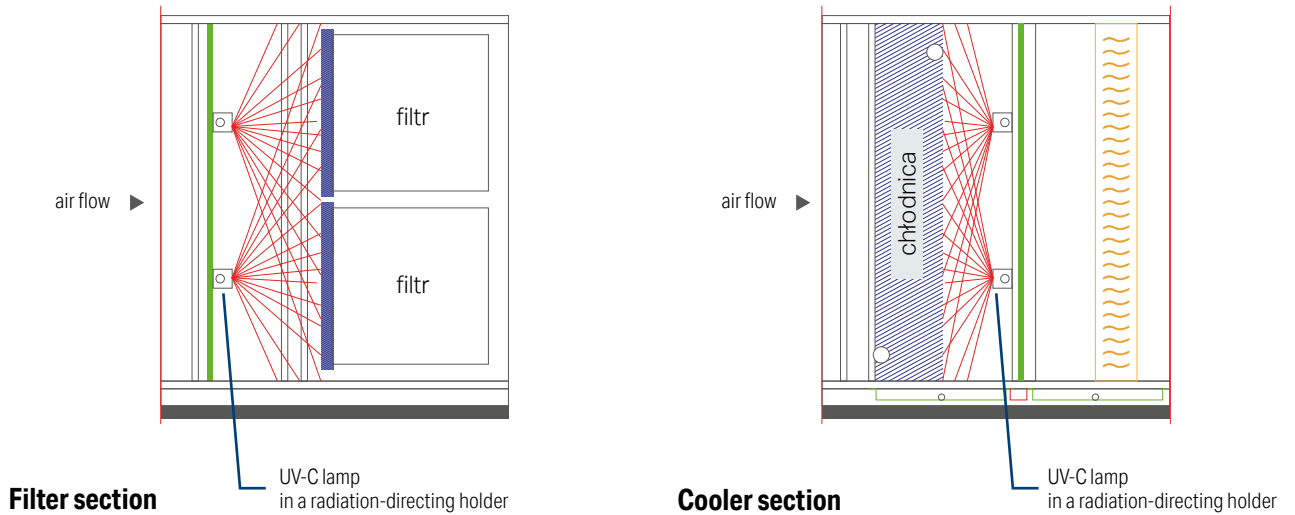


Fig.1 Location of the UV-C lamps in the control room (view from the service side).

The power and number of UV-C radiators for each size of air handling unit is selected according to the average radiation area. The service life of the radiator counted by the automation system is  $\leq 18,000$  hours (75% power).

## Availability of UVC-S sections in sizes

According to the KAD selection programme, UVC-S sections are provided for the following sizes of KLIMOR EVO units.



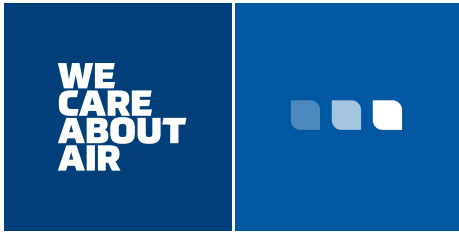
### SERIES

KLIMOR EVO



### SIZE

5100, 3200, 5200, 0300, 0400, 2500, 3500, 0600, 0700, 5800, 8800, 0010, 5010, 5310, 4410, 5610, 0020, 0120, 5320, 0720, 0230, 0530, 0930, 0040, 0050



M A D E I N P O L A N D

## Contact us!

Our goal and commitment is to provide you with the highest quality air conditioning and ventilation products combined with a package of professional consulting services. Our technical and commercial representatives remain at your disposal!

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