



R-FILTER

UV COMFORT AIR CLEANER

**HEALTH
BEGINS
WITH
CLEAN
AIR**

Powered by:



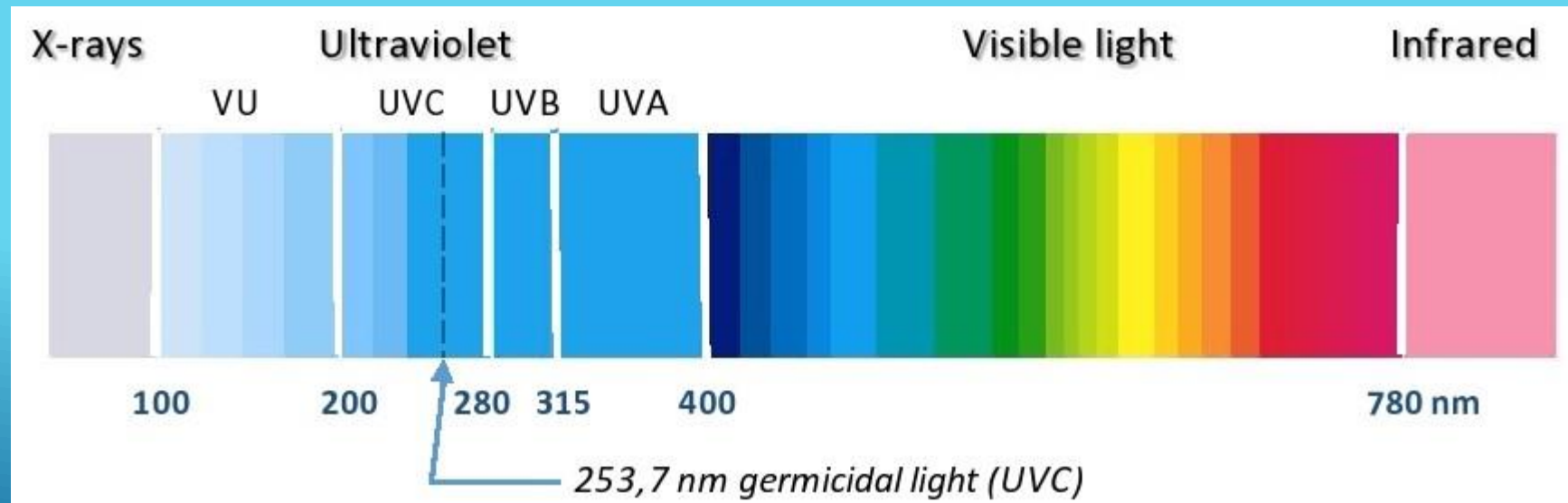
Have you ever heard of UV as a treatment method used for disinfection? Or have you heard about UV disinfection in the air purification?

Background:

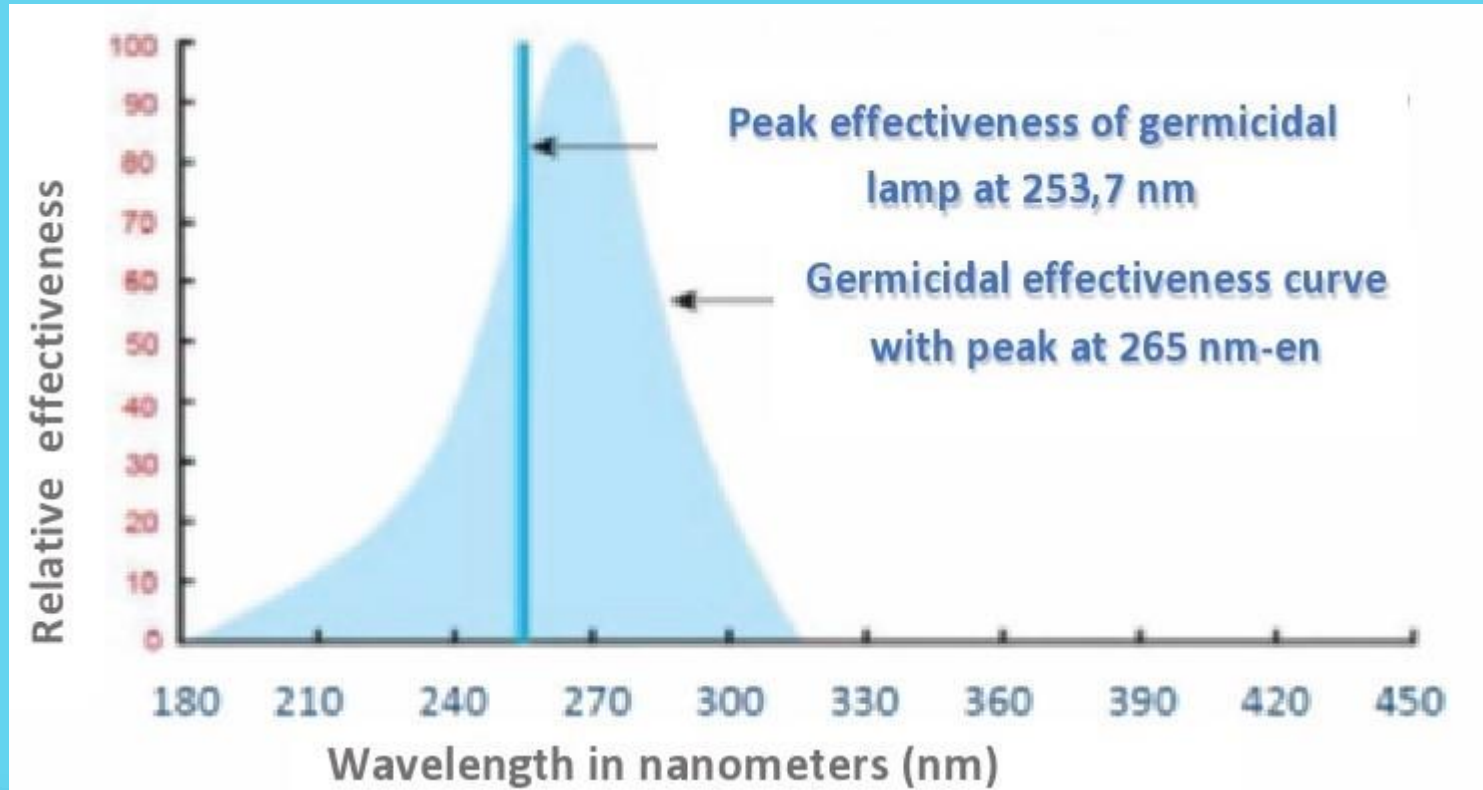
- **High-performance lamps with optimized output of 254 nm UVC radiation have a strong bactericidal effect**
- **UV is a chemical-free process that adds nothing to the air except UV light**
- **UV systems should be designed with enough UV dose to ensure cellular damage of microorganisms cannot be repaired**
- **Disinfecting the air in your home, in offices and health facilities or in supply ventilation systems comes to health and wellbeing**

- You can significantly reduce the bacterial count in the supply and recirculated air using our devices built for this purpose.
- The device does not have its own fan, it can either be installed in the active or in the passive part of the ventilation system.
- The air velocity within the device, which is best suited for disinfection, is approximately 2-2.5 m/s. At higher air velocities, the R-FILTER UV-C lamps do not have enough time to destroy the DNA of the bacteria to be disinfected the air.

The light spectrum in nanometers:



- At the wavelength of 265 nm, the germicidal effect of UV-C radiation has its maximum.



- The low pressure R-FILTER germicidal lamps have the most effective action at 253,7 nm. This is close to the peak of the germicidal effectiveness curve.

Type of devices:

Type	Colour	Size LxWxH (mm)	Connection (mm)	Max. air flow (m ³ /h)	Supply voltage (VAC)	UVC lamps	Input electric power (W)	Current flow (mA)	UVC output (W253,7nm)	Safety device
										Door contact switch
UVF 500M1	chromic	700/830x320x390	Ø 250	500	230/50	4x25W	100	450	4x7,2W	✓
UVF 800M2	chromic	1150/1280x320x390	Ø 250	800	230/50	4x30W	120	550	4x11,3W	✓
UVF 1000M3	chromic	1150/1280x320x390	Ø 250	1000	230/50	4x55W	220	1000	4x19W	✓
UVF 2000M2	chromic	955/1080x550x560	Ø 400	2000	230/50	10x30W	300	1300	10x11,3W	✓
UVF 5000M3	chromic	955/1080x1000x660	800x400	5000	230/50	12x55W	660	2900	12x19W	✓



Areas of use:

Apartments, offices, health facilities, air conditioning and ventilation

- **The outside air sucked by the ventilating system, or the air transported through the central ventilation duct system can be disinfected by this device. Built into the duct system, it acts as a passive element, does not have its own fan.**

Advantages of the device:

- ❖ **Can be easily installed as duct piece in existing duct system**
- ❖ **Creates a healthier indoor environment**
- ❖ **High degree of disinfection**
- ❖ **Reduces the respiratory diseases**
- ❖ **Supports immune system**
- ❖ **Works ozone-free**

- ❖ **Works without chemicals**
 - ❖ **Does not contain a filter**
 - ❖ **Rated average life of UVC lamps: 9000 hours (80% output performance)**
 - ❖ **Stainless steel housing, no risk of corrosion**
 - ❖ **Minimal cleaning effort**
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