

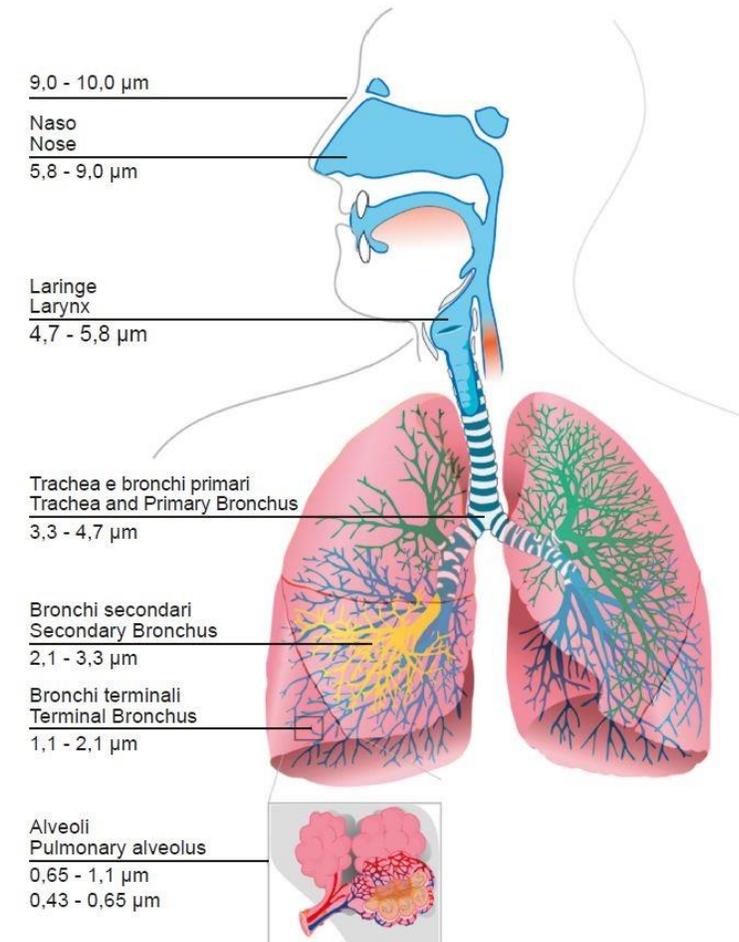
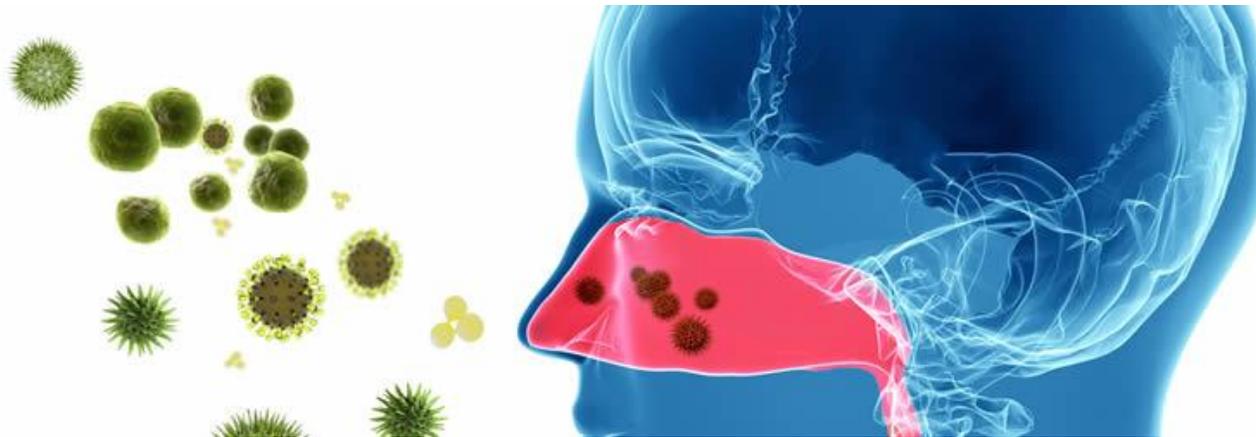
**RUPES®**

# Niveus - Professional Air Purifier

*Air Purification Systems*

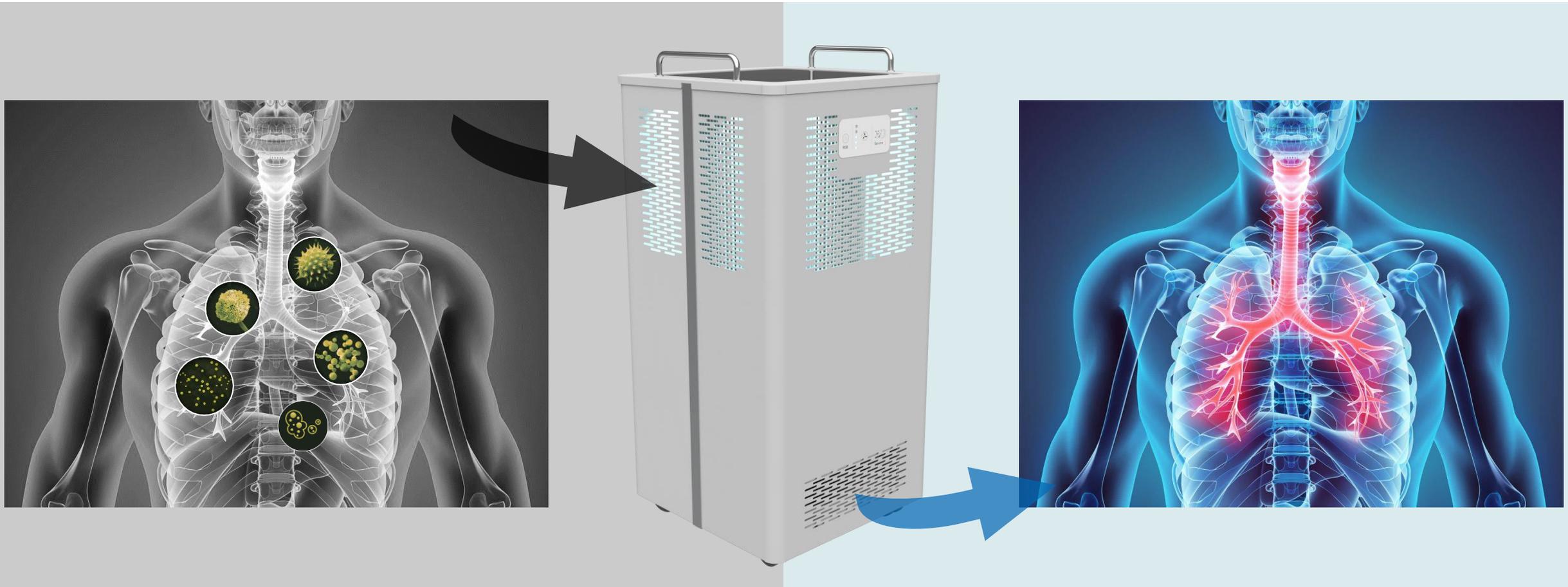


People can be **exposed** to a variety of substances at work which can lead to **harmful health effects**. Workplace pollution is defined as the **presence of hazardous materials visible and invisible** such as **micro dust, bacteria, virus, allergens, vapours and fumes**. The main exposure routes are through **inhalation**, **direct contact** and **swallowing**.



 <b>PM 10</b> Pollen and allergens	 <b>PM 5,0</b> Microorganisms	 <b>PM 2,5</b> Industrial Emission	 <b>PM 0,3</b> Ultrafine Particles and virus
 Falling Dust Fly Ash	 Bacteria Mould Spores	 Petrol Fumes Oil Smoke	 Car Exhaust Tobacco Smoke

**RUPES Niveus Air Purifier** is the optimal solution to have an **excellent air purification** and to create a **healthy environment**, increasing **people's safety and protection**.



**RUPES** Niveus Air Purifier with **powerful** brushless motor and **high filtration efficiency** is the **ideal air purifying system** to be installed in several **working environments**.

## INSTALLATION SITES:



OFFICES



TRAINING CENTERS



MEDICAL



MEETING ROOMS



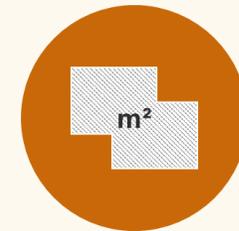
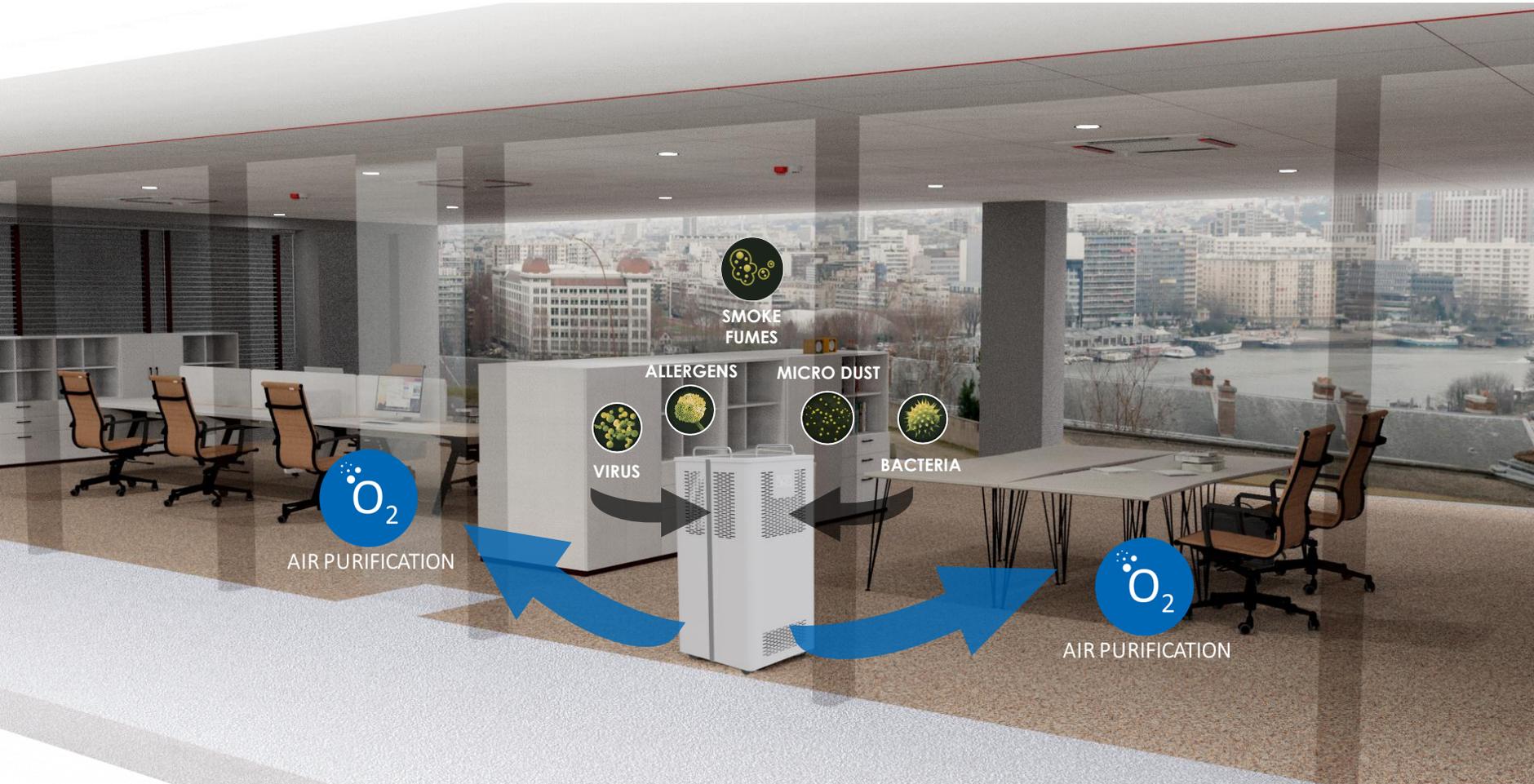
MANUFACTURING



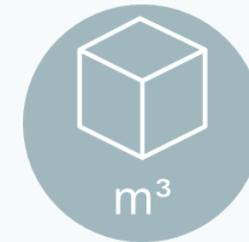
HOSPITALITY

# Air Purification Systems

**RUPES Niveus Air Purifier** can cover **several** working environments up to **120 [m<sup>2</sup>]** or **300 [m<sup>3</sup>]**. This **purifying product** increases indoor air quality, reducing and capturing **micro dust, allergens, bacteria and virus** with the **purpose** of improving workers' health.



**COVERING  
AREA  
UP TO 120 [m<sup>2</sup>]**



**ENVIRONMENT  
UP TO  
300 [m<sup>3</sup>]**



**MOBILE SYSTEM  
EASY PORTABILITY**

Contaminated air passes through **ULPA filter grade U15** which is made of a multilayer **fine mesh** that **blocks** harmful particles. An **UV-C sterilizer chamber** eliminates **ultra micro organisms** and an **activated carbon filter** purifies the air before it is **released** into the work environment.



ULPA FILTER  
GRADE - U15

**ULPA FILTER  
GRADE - U15**



HIGH FLOW-RATE

**POWERFUL  
BRUSHLESS MOTOR**



UV-C  
STERILIZER CHAMBER

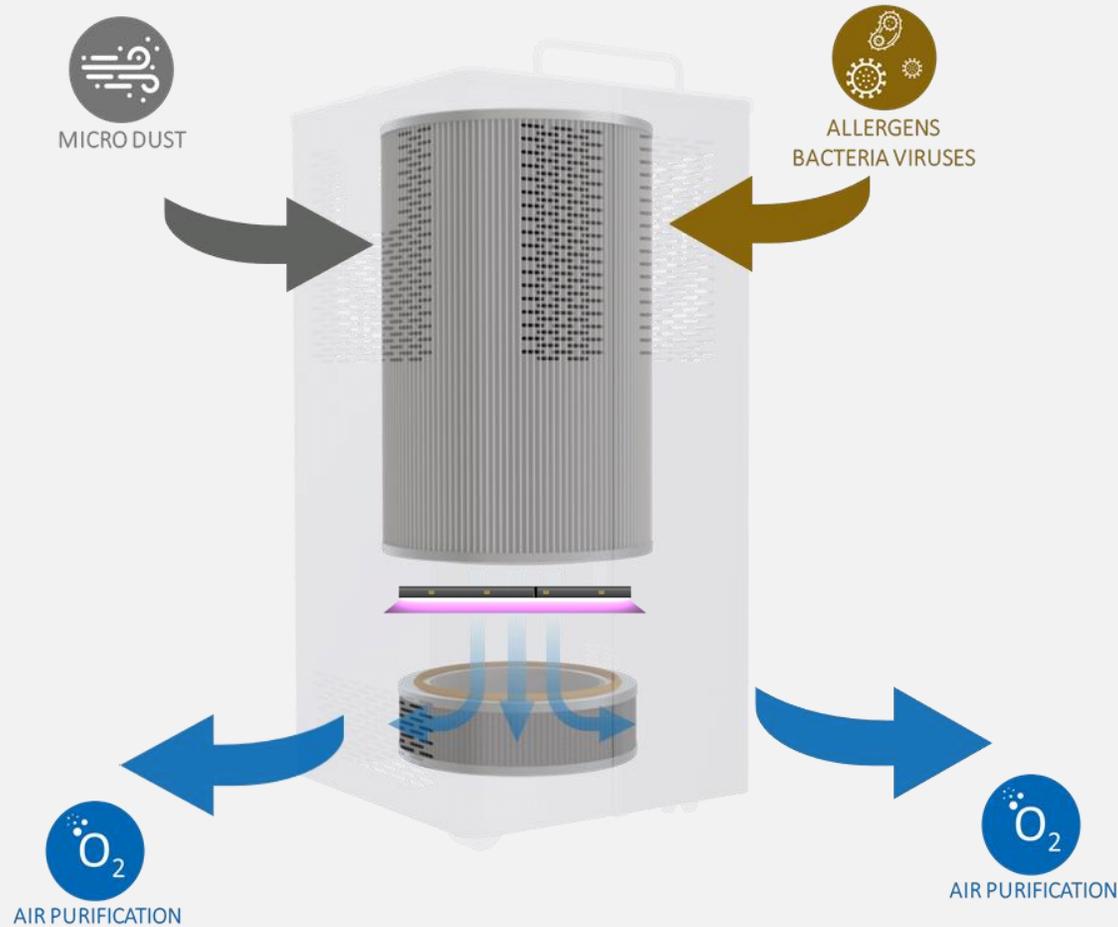
**UV-C  
STERILIZER CHAMBER**



ACTIVATED  
CARBON FILTER

**ACTIVATED  
CARBON FILTER**

**RUPES Niveus Air Purifier** is an opportunity to **increase safety and protection** of workers and **improve the indoor air quality** of working area.



CLEAN WORKING ENVIRONMENT



HIGH WORKERS PROTECTION

**High** filtering surface:

1. Filter : 8 [m<sup>2</sup>] **ULPA GRADE U15** with a **high** filtration efficiency of 99,9995%
2. Filter : 1 [m<sup>2</sup>] **ACTIVATED CARBON FILTER**



ULPA FILTER  
GRADE - U15



ACTIVATED  
CARBON FILTER

### FILTERS TECHNICAL DATA

FILTERING SURFACE	8 [m <sup>2</sup> ]
FILTRATION EFFICIENCY	99,9995%
FILTER GRADE	ULPA – U15

### FILTERS TECHNICAL DATA

FILTERING SURFACE	1 [m <sup>2</sup> ]
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The following TABLE shows the various classes for high efficiency filters in accordance with EN 1822-1:

- Group E (E10, E11, E12): **EPA filters (Efficient Particulate Air filter)**;
- Group H (H13, H14): **HEPA filters (High Efficiency Particulate Air filter)**;
- Group U (U15, U16, U17): **ULPA filters (Ultra Low Penetration Air filter)**

**TABLE – CLASSIFICATION OF EPA, HEPA and ULPA filters**

Filter Group Filter Class	Integral value		Local value <sup>a b</sup>	
	Efficiency (%)	Penetration (%)	Efficiency (%)	Penetration (%)
E 10	≥ 85	≤ 15	--- <sup>c</sup>	--- <sup>c</sup>
E 11	≥ 95	≤ 5	--- <sup>c</sup>	--- <sup>c</sup>
E 12	≥ 99,5	≤ 0,5	--- <sup>c</sup>	--- <sup>c</sup>
H 13	≥ 99,95	≤ 0,05	≥ 99,75	≤ 0,25
H 14	≥ 99,995	≤ 0,005	≥ 99,975	≤ 0,025
<b>U 15</b>	<b>≥ 99,999 5</b>	<b>≤ 0,000 5</b>	≥ 99,997 5	≤ 0,002 5
U 16	≥ 99,999 95	≤ 0,000 05	≥ 99,999 75	≤ 0,000 25
U 17	≥ 99,999 995	≤ 0,000 005	≥ 99,999 9	≤ 0,000 1



ULPA FILTER  
GRADE - U15

**ULPA FILTER  
GRADE - U15**

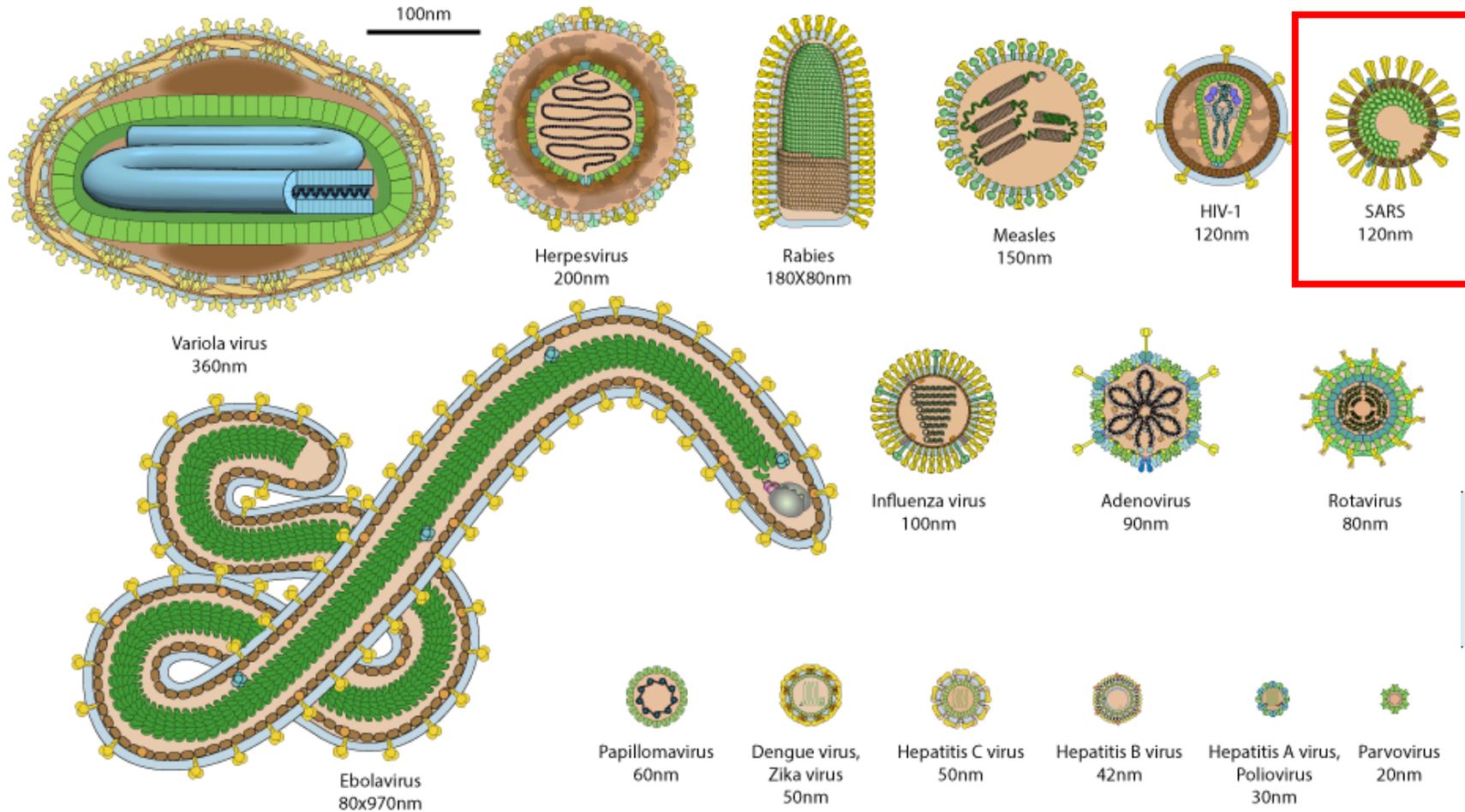
**10 times more  
efficient than HEPA  
filters**

## FILTER EFFICIENCY TEST

Particle size [µm]	Efficiency [%]	Efficiency, 95% min [%]	Penetration [%]	Penetration, 95% [%]
0,026	>99,99995	*	<0,00005	*
0,029	>99,99995	*	<0,00005	*
0,034	>99,99995	*	<0,00005	*
0,039	>99,99995	*	<0,00005	*
0,045	>99,99995	*	<0,00005	*
0,052	>99,99995	*	<0,00005	*
0,060	>99,99995	*	<0,00005	*
0,070	>99,99995	99,99991	<0,00005	0,00009
0,081	>99,99995	99,99992	<0,00005	0,00008
0,093	>99,99995	99,99993	<0,00005	0,00007
0,108	>99,99995	99,99993	<0,00005	0,00007
0,124	>99,99995	99,99992	<0,00005	0,00008
0,143	>99,99995	99,99992	<0,00005	0,00008
0,166	>99,99995	99,99992	<0,00005	0,00008
0,191	>99,99995	99,99993	<0,00005	0,00007
0,221	>99,99995	99,99993	<0,00005	0,00007
0,255	>99,99995	99,99993	<0,00005	0,00007
0,294	>99,99995	99,99994	<0,00005	0,00006
0,340	>99,99995	99,99997	<0,00005	0,00003
0,392	>99,99995	99,99996	<0,00005	0,00004
0,453	>99,99995	99,99994	<0,00005	0,00006

NIVEUS FILTER  
Filtration Efficiency Test  
**>99,9995%**

## MAIN VIRUS DIMENSIONS



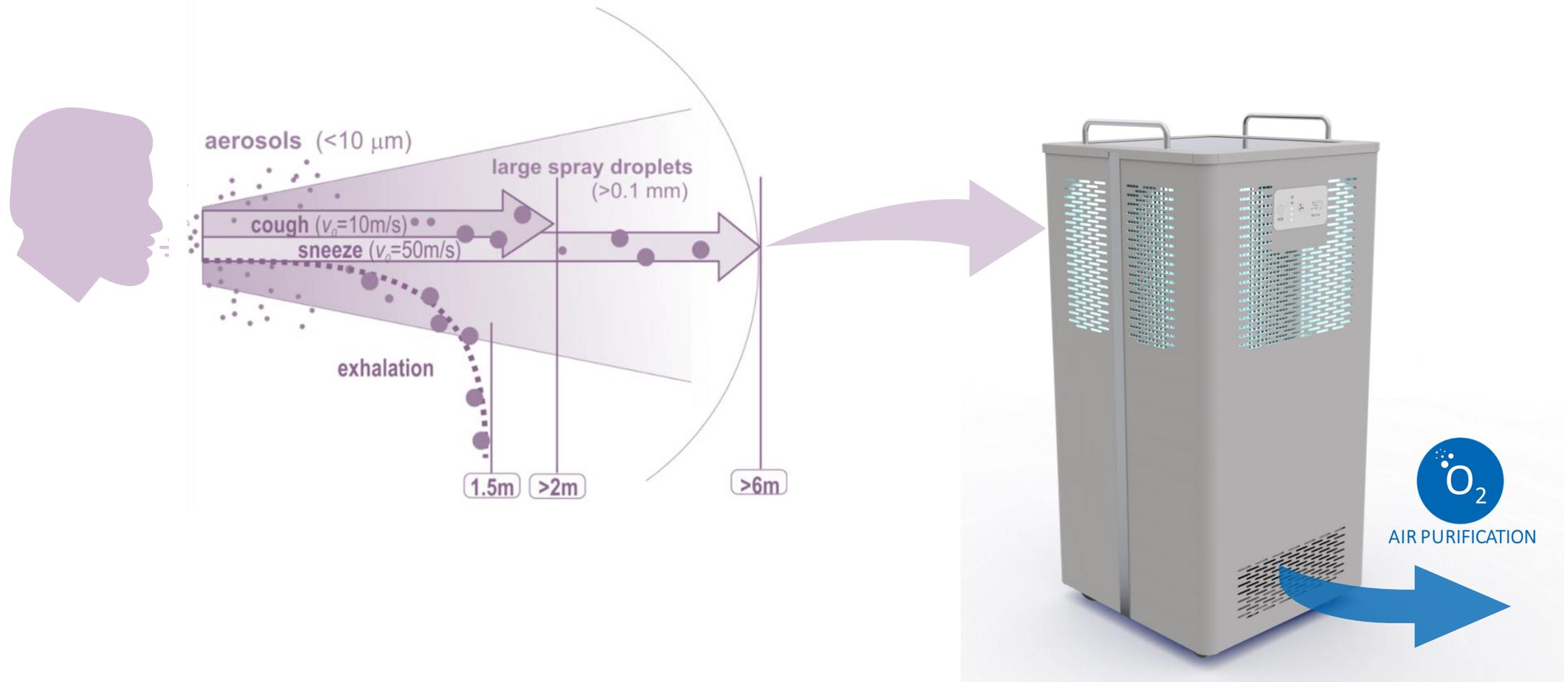
COVID-19  
(60nm-140nm)

120nm = 0,12micron

NIVEUS FILTER ULPA 15

NIVEUS FILTER EFFICIENCY	<b>&gt;99,9995%</b> WITH <b>26nm</b> PARTICLES
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Research suggests that **aerosols** could be the **most dangerous** causing for a more severe infection; **aerosols** are much smaller than droplets and therefore travel further into the environments.

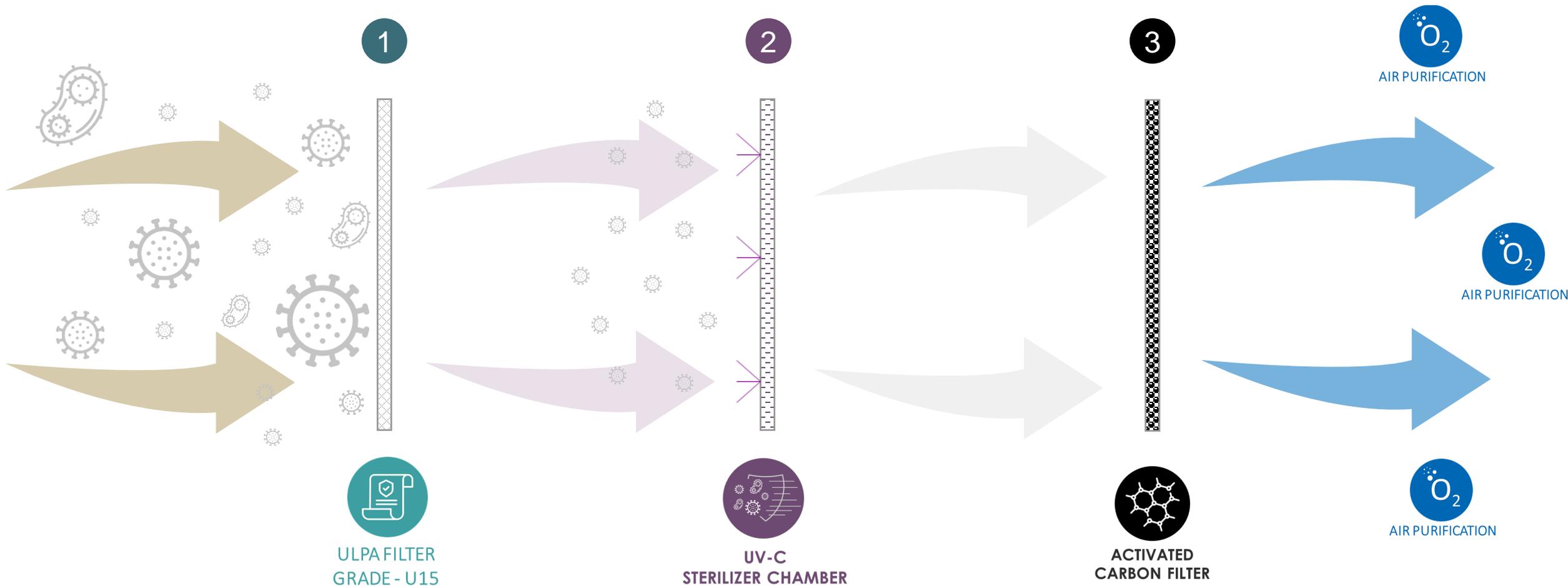


3 stages of advanced filtration:

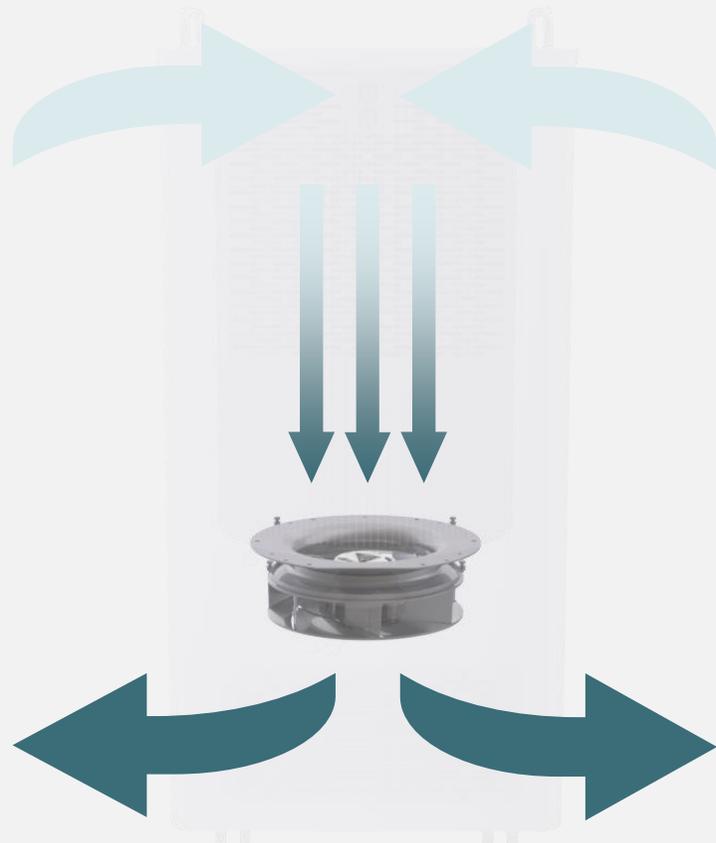
## 1 - ULPA FILTER GRADE U15

## 2 - UV-C STERILIZER CHAMBER

## 3 - ACTIVATED CARBON FILTER



A powerful brushless motor provides: **high performance** to cover **wide working environments** and an **ideal solution** with the **maximum energy saving** with relevant **costs saving**.



## MOTOR TECHNICAL DATA

ELECTRIC SUPPLY	230 [V]
POWER	86 [W]
FLOW RATE	300 [m <sup>3</sup> /h]



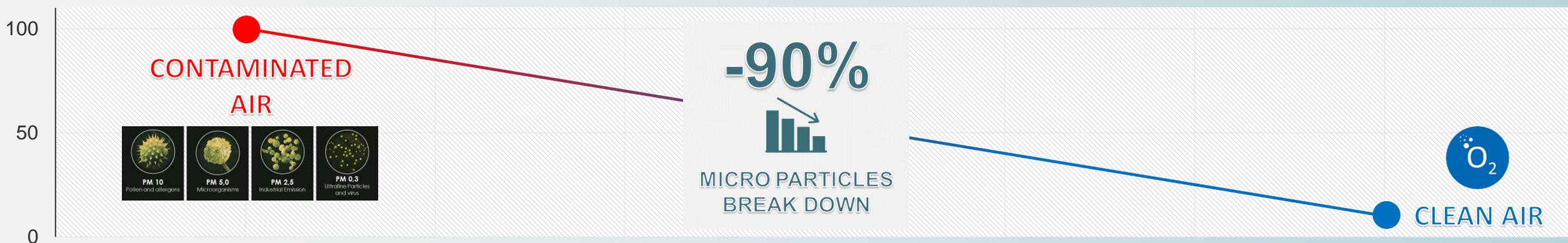
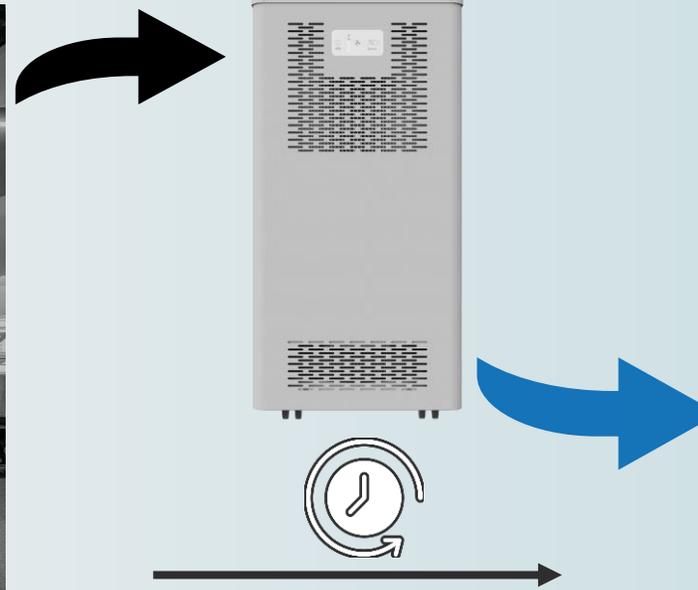
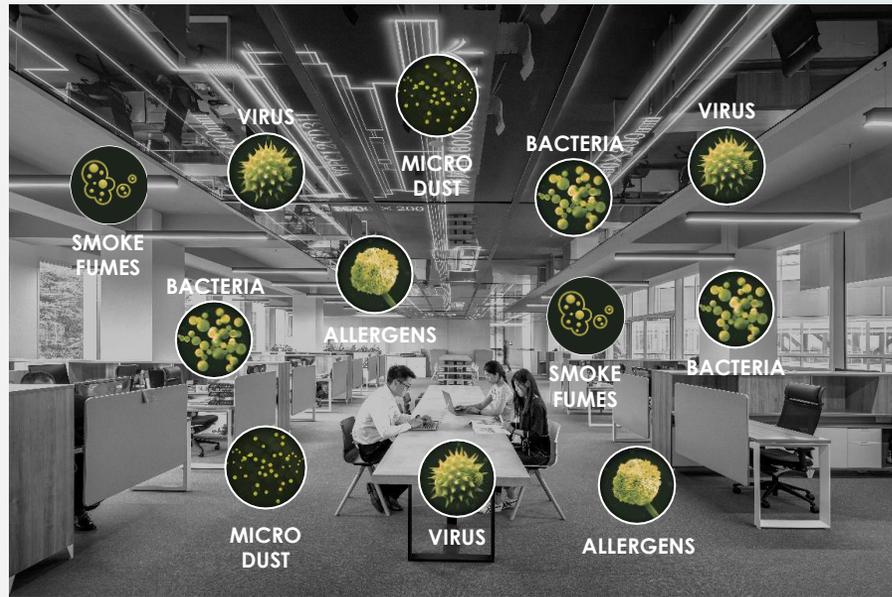
ENERGY SAVING

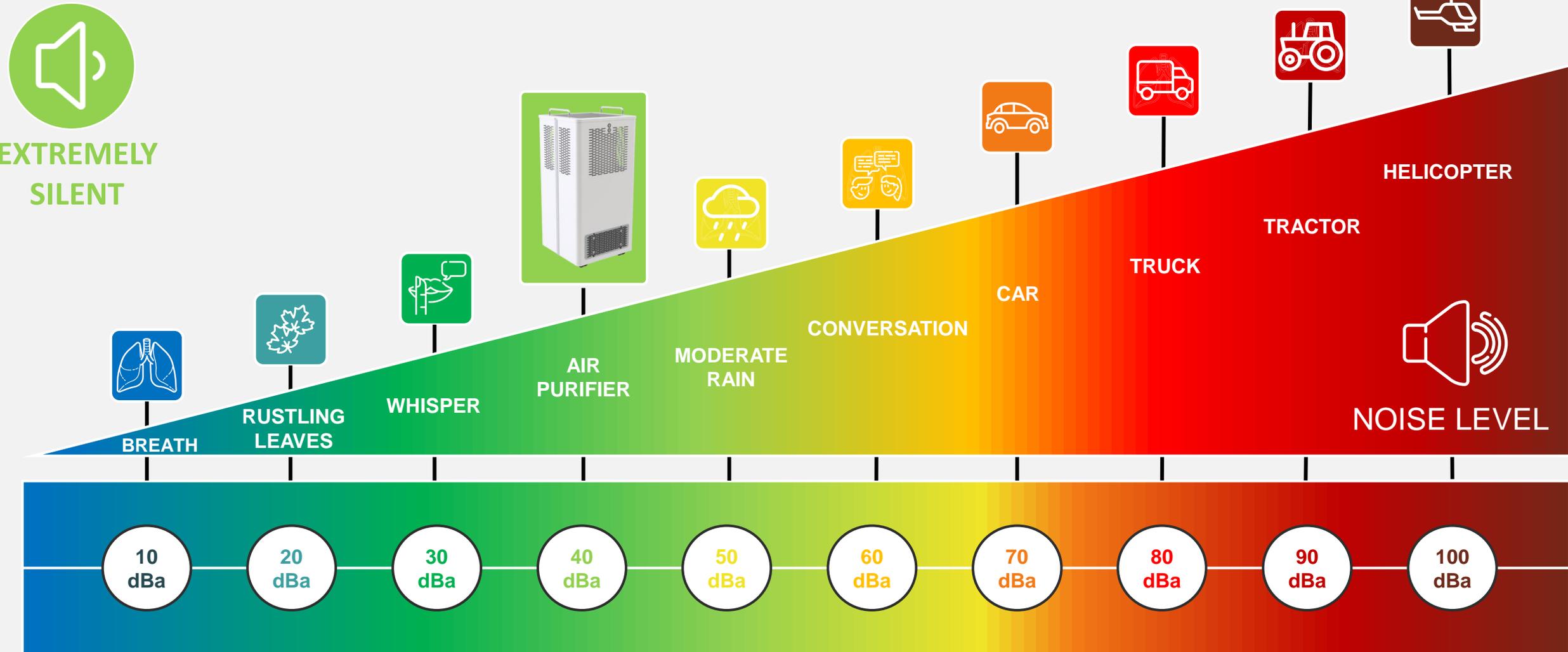


HIGH PERFORMANCE

# Air Purification Systems

**RUPES®**











**RUPES Niveus Air Purifier** helps to filtrate air inside **working places** with a **continuous recycling** and **purification** of the indoor air. It brings a lot of **benefits** and **safely increase** work efficiency of each individual worker and employee.

1



AIR PURIFICATION

2



HIGH FILTRATION EFFICIENCY

3

ULPA FILTER  
GRADE - U15

4

HIGH WORKERS  
PROTECTION

5

CLEAN WORKING  
ENVIRONMENT

6



ENERGY SAVING

**RUPES®**

**THANK  
YOU**