BLAUPUNKT

BLAUPUNKT Brand established 1924 GERMANY

AIR PURIFIER
UVIRUS KILLER

BAP-IT-H3148-U31W

CADR 310 m³/h high air filtration efficiency

UV-C Tube which generates a beam of light killing viruses

H13 HEPA Filter stops particles smaller than < 0,3 µm

Voice assistant

Enjoy it.

The UVirus Killer from the **MEDICO** line is an ideal medical air purifier for middle-sized areas. This device sets a first-class standard through it's high efficiency and low noise level. 6 stages of air purification including 4 filters: pre-filter, HEPA filter, activated carbon, photocatalytic and UV-C lamp and ionization function generating up to 8 million ions/cm³. Negative ions have a germicidal effect and neutralize viruses, eliminating 99.99% of their population. Wi-Fi function allows you to connect to the air purifier from any place with network access. The mobile application is available on iOS and Android. Products with the blue dot have been with us for over 90 years and the BLAUPUNKT logo is one of the most recognisable brands in the world.

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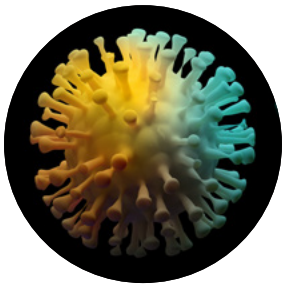
MEDICO Line - new definition of purification



Viruses

Viruses are ruthless intracellular parasites. They use the system of the host cell to multiply. **As a result of a viral infection, the host cell can be destroyed.**

The main routes of infection for viruses are the mucous membranes of the respiratory and digestive systems and damaged skin. Viruses cause infections of the respiratory tract, several internal organs, infect the central nervous system and can cause cancer.

Viral infections, weakening the immunity of the host organism, can lead to dangerous bacterial infections.

The symptoms of viral infection are often confused with a cold: elevated temperature, weakness, chills or muscle pains. The infection can also be asymptomatic despite the presence of the virus in the body.

Smog

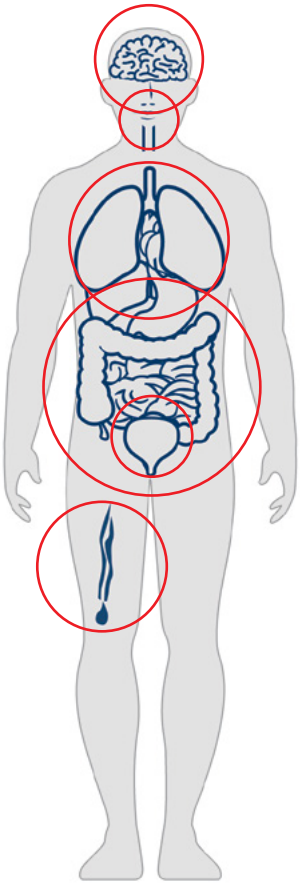
PM2.5 is the most harmful atmospheric pollutant with a diameter of no more than 2.5 micrometers. They are considered to be the most dangerous for our health because, due to their size, they can get **directly into the human bloodstream.** Harmful aerosols present in the air do not only come from smog. Some of these elements are used in industry. One of the most common, **formaldehyde**, is an ingredient used in the manufacturing of furniture, flooring, textiles, cosmetics, etc. PM2.5 dust is responsible for lung dysfunction, asthma, respiratory cancers, vasculitis and other related diseases.
There is a documented increase in the incidence of lung cancer in people living in an environment where the air quality standard is exceeded.

The WHO has set the average annual standard at 10 µg/m^3. Research shows that the levels of PM2.5, ozone and nitrogen dioxide are still too high and that there is still a global problem with air quality. Much of the population of large European cities lives in areas where air quality standards are severly exceeded.

Bacteria

Bacteria are found in all biotopes. They can be found in soil, water and other living organisms. **About 1 million bacteria can be found in one milliliter of fresh water.** Harmful bacteria penetrate the body causing inflammation, fevers, vomiting and diarrhea.

Staphylococcus Albus
There is clinical evidence of the disease, caused by this bacteria, causing fever, which gives way usually after 1-2 weeks. Staphylococcus Albus was found to be the causative factor in 53 (4.4%) of 1200 wound infections. Letting the bacteria multiply may cause clinical sepsis.



Staphylococcus Aureus
A bacteria found in the nasopharyngeal cavity and on the skin surface. Food products may be the cause of Staphylococcus poisoning. Staphylococcus toxins can lead to vomiting, diarrhea, a drop in blood pressure and even death.

Coli - E. coli
It colonizes the skin and mucous membranes of the mouth, respiratory system and intestines. **It is the most common cause of urinary tract infections**, the second in frequency of meningitis in newborns. It causes organ abscesses, a severe peritonitis, which can be complicated by sepsis.

Pneumoniae
It is a highly virulent bacteria. It can be found very often in the airways and digestive tract. In addition to pneumonia, it causes infection of the gastrointestinal tract, bones, joints or urinary system. **It causes meningitis in newborns.**

MEDICO

Counteracting

The advanced Blaupunkt air purifier from the **new MEDICO specialist line** will guarantee the best air quality in our surroundings. Thanks to the built-in UV-C lamp, a set of filters and photocatalysis functions, the UVirus Killer is able to eliminate up to 99.99% of airborne pollutants, bacterial contamination and viruses. Four types of filters have been used to increase the quality of the air we breathe in.
The UVirus Killer air purifier performs a 6-stage air treatment process, from the elimination of larger pollutants (dust, hair, fur, mites) to the elimination of bad odors and saturation of the air with negative ions. Essential for people with chronic respiratory diseases (e.g. asthma, allergies) and for people with irritated mucous membranes after periodic infections.

6 air treatment stages

Stage one: Pre-filter
The micron mesh filter effectively blocks fibrous particles with a diameter of 2.5 mm with an efficiency of over 99.99%. The filter can be cleaned several thousand times. This filter traps larger particles such as pet hair, dandruff and dust providing better performance for subsequent filters.

Stage two: Effective H13 HEPA filter

The HEPA H13 medical grade air filter absorbs harmful particles, not less than 0.3 microns in size. The filter captures 99.97% of fine particles such as pollen, pollutants and allergens from the air and reduces the presence of bacteria, viruses, pollen and smog in the air.

An antiviral PET skeleton with Cu_2Ag^+ copper and silver ions, working in conjunction with a **medical grade filter, HEPA H13**, gets the best effect of bacterial isolation and antiviral sterilization. A test carried out has confirmed that the antiviral skeleton of PET has a significant impact on the removal of viruses such as **SARS**, **H7N9** (avian influenza, coronavirus) and **H1N1** (respiratory flu virus).

Stage three: Activated carbon filter
Modified activated carbon can filter out formaldehyde / VOCS and other gaseous pollutants to keep the air fresh.

Stage four: Photocatalytic filter
The photocatalytic properties of titanium oxide nanoparticles (TIO_2) were used in this filter. Strong catalytic degradation occurs in UV light. This filter effectively eliminates **formaldehyde**, **toluene**, **xylene**, **ammonia**, volatile organic compounds (TVOC) and other pollutants.

Stage five: UV-C lamp

UV-C radiation, wavelength: 100-280 nm, effectively eliminates surface bacteria and viruses. It inhibits their development.

Stage six: Ionizer

Negative concentration of ions: 8000000 pieces /cm^3

Ozone generation: < 0,03 PPM

The air purifier generates a continuous stream of millions of negative ions circulating in the air. The ions load very fine particles (e.g. dust, hair, bacteria, as well as mould and fungal spores), causing them to clump together, making them larger and easier to catch in the air filter or during vacuuming.

Ozone: Enriched with an additional molecule, O_2 oxygen is transformed into O_3 ozone, which eliminates pathological micro-particles that cause odour.

Results of UVirus Killer efficiency tests*

Bacteria elimination

Date of receipt of samples: 26.02.2020
Date of sample analysis: 26.02.2020

Test results

				Control group			Test group		
Sample number	Test time (in. min)	Bacteria tested	Test number	Initial bacterial count V_0 (cfu/cm^3)	Number of bacteria after treatment V_1 (cfu/cm^3)	Natural decay index N_1 (%)	Initial bacterial count V_0 (cfu/cm^3)	Number of bacteria after treatment V_1 (cfu/cm^3)	Death rate K_1 (%)
KJ20200502-1	60	Staphylococcus Aureus	1	1.23×10^5	9.85×10^4	19.92	1.38×10^5	7	99.99
			2	1.26×10^5	1.04×10^5	17.46	1.25×10^5	7	99.99
			3	1.21×10^5	9.49×10^4	21.57	1.35×10^5	7	99.99
		E. coli	1	1.17×10^5	7.89×10^4	32.56	1.34×10^5	7	99.99
			2	1.36×10^5	8.93×10^4	34.34	1.03×10^5	7	99.99
			3	1.20×10^5	8.11×10^4	32.42	1.27×10^5	7	99.99

Virus elimination

Date of receipt of samples: 26.02.2020
Date of sample analysis: 26.02.2020

Test results

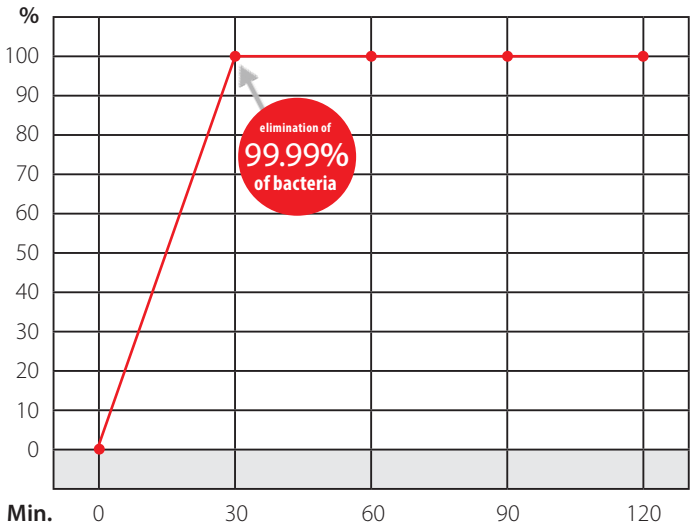
			Control group			Test group		
Sample number	The virus being tested	Test number	0 min. ($TCID_{50}/cm^3$)	60 min. ($TCID_{50}/cm^3$)	Natural decay index (%)	0 min. ($TCID_{50}/cm^3$)	60 min. ($TCID_{50}/cm^3$)	Purification index (%)
KY20200150-1	A/PR8/34 (H1N1)	1	1.60×10^5	2.70×10^4	83.13	5.06×10^5	/	≥99.99
		2	5.06×10^5	8.99×10^4	82.23	1.60×10^5	/	≥99.99
		3	7.48×10^5	1.60×10^5	78.61	5.06×10^5	/	≥99.99

*Tests by the Guang Zhou Institute of Microbiology

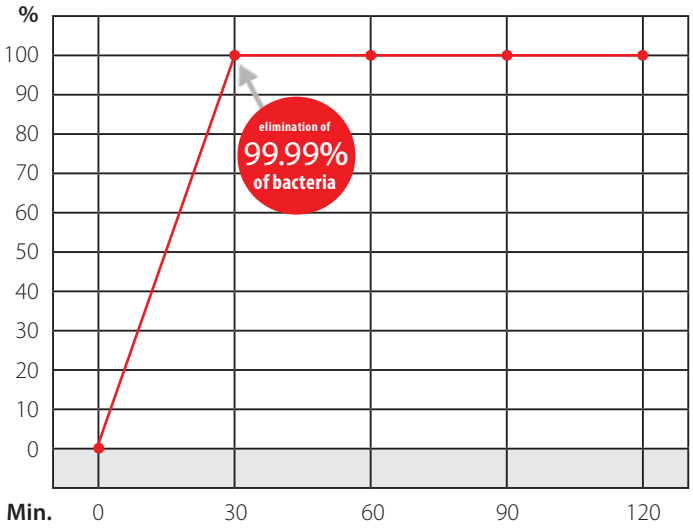
Effectiveness of the UVirus Killer air purifier

Intensive air decontamination technology can reduce the amount of virus, bacteria and other hazardous substances in the air and on the surfaces, including the H1N1 virus, staphylococcoccus albus, staphylococcus aureus, pneumonia, colitis and others.

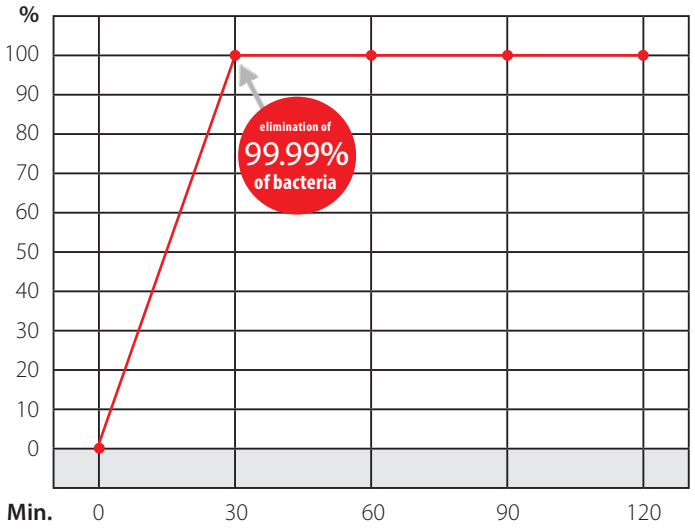
Staphylococcus Aureus
Eliminate up to 99.99% of bacteria after 30 minutes of operation.



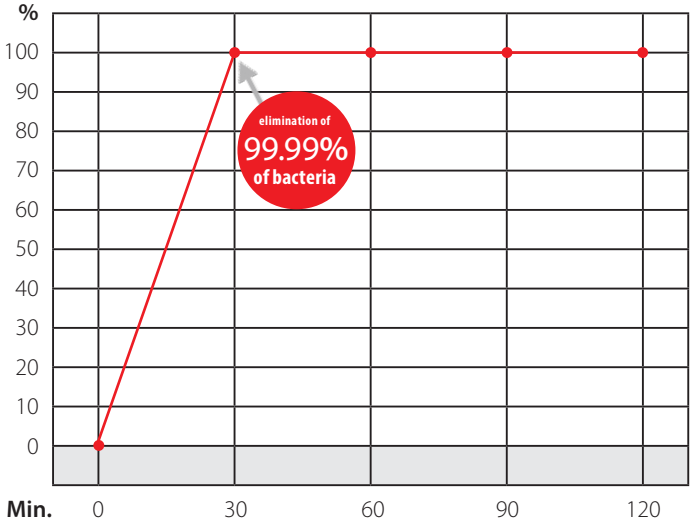
Staphylococcus Albus
Eliminate up to 99.99% of bacteria after 30 minutes of operation.



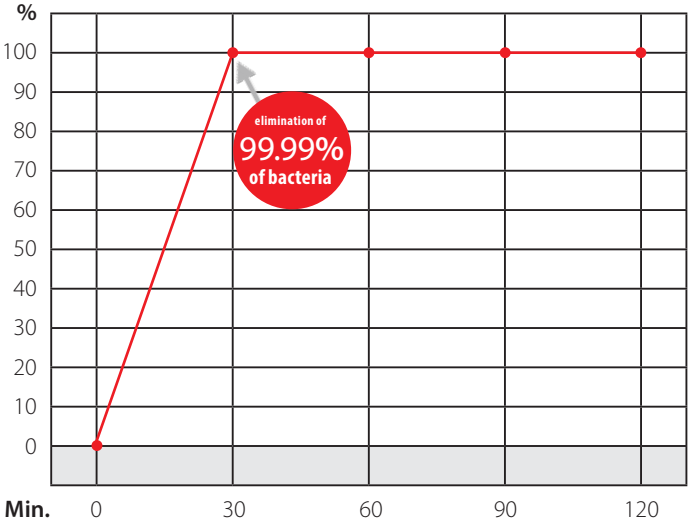
Pneumoniae
Eliminate up to 99.99% of bacteria after 30 minutes of operation.



Escherichia coli
Eliminate up to 99.99% of bacteria after 30 minutes of operation.



H1N1 influenza virus (Latin *Influenzavirus A*)
Eliminate up to 99.99% of bacteria after 30 minutes of operation.

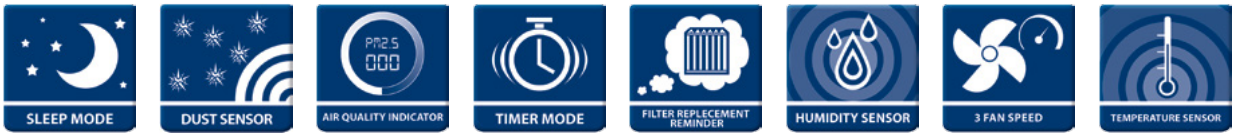


BLAUPUNKT

Technical Specification

Model			BAP-IT-H3148-U31W
Stages of air purification			
Number of stages			6
Pre-filter			YES
HEPA filter	H13		YES
Activated carbon filter			YES
Photocatalyst			YES
UV-C lamp	Wavelength: 100-280 nm		YES
Ionizer	Ion concentration: 8 million pcs./cm^3		YES
Air purification efficiency			
PM2.5 (particulate matter)		%	99.99
Bacteria and viruses		%	99.99
CADR		m^3/h	310
Air flow		m^3/h	370
Technical data			
Power supply		V~/Hz/Ph	220~240/50/1
Rated power		W	35
Noise level*	Min./Low./Mid./High	dB(A)	16/22/28/36 (60)
Unit dimensions	W x H x D	mm	410 x 635 x 210
Packaging dimensions	W x H x D	mm	460 x 690 x 260
Weight	Net/Gross	kg	7.2/8.8
Colour			White
Area of operation	Estimated	m^2	28 ~ 48
Compatibility	Wi-Fi		Voice assistant, iOS/Android
EAN			5903246542592

Technical specifications may change without prior notice.
*Measurement according to Blaupunkt standards.



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