

③ ACTIVATED CARBON FILTER (FIBER FILTER)

Activated carbon has a highly porous structure and thus a very large surface area. This ensures excellent adsorption capacity, especially for a wide variety of substances such as ammonia, formaldehyde, etc. The activated carbon fibers used in the 3rd purification stage are very dense and thus act like a molecular sieve.

Filterable particles, tobacco smoke components and allergens in indoor air:

- Particles PM10 and PM2.5
- House dust
- Allergenic microparticles
- Fine pollen
- Microscopic house dust, mite excrement, parts of mites
- Particles contaminated by tobacco smoke
- Smoke particles

The activated charcoal odor filter has a large adsorption area. With a filter surface of around 1000 m² per gram of activated carbon, numerous substances and even organic compounds from the air.

②③② PARTICLE - ACTIVATED CARBON FILTER COMBINATION

The two particle filters ② and the activated carbon filter ③ are thermally bonded. This increases both the strength of the material and the bond strength between the individual fibers and the filter elements themselves. In this filter combination, the activated carbon filter is enclosed by the two particle filters.

④ ACTIVATED CARBON (GRANULATED)

The honeycomb filter filled with activated carbon granules ensures optimum distribution of the granules over the entire filter surface. This pellet-like processing form in combination with the highly porous structure ensures an amazing adsorption capacity.

Filterable particles, tobacco smoke components and allergens in indoor air:

- Particulate matter PM10 and PM2.5
- house dust
- Allergenic small particles
- Fine pollen
- Microscopic house dust, mite excrement, parts of mites
- Particles contaminated by tobacco smoke
- Smoke particles
- Various gases
- Odors and flavors

⑤ HEPA ELEMENT

With the help of the HEPA element, even the smallest particles can be filtered out of the room air. In doing so, this filter makes use of two filtration principles. On the one hand, particles are mechanically bound in the filter medium due to their size. Secondly, adhesion forces cause the smallest particles to adhere to the fibers of the filter. In addition, the pleats in the HEPA material significantly increase the filter surface area.

Filterable particles, tobacco smoke components and allergens in indoor air:

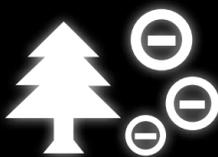
- Particles PM10 and PM2.5
- House dust
- Allergenic particles
- Animal hair and dander
- Mold spores, parts of molds



- Pollen
- Microscopic house dust, mite excrement, parts of mites
- Particles contaminated by tobacco smoke
- Smoke particles
- Microscopic particles
- Fine dust

NEGATIVE ION GENERATOR

Distributed in the room air, the electrically charged particles cause the smallest particles to cluster together. Due to their size, the clusters of tiny particles created by this so-called clustering can be more easily absorbed by the filter media. This effect is often compared to a thunder-shower, after which the air is also fresh and pleasant.



THE ADVANTAGES OF THE AIR-JET AIR FILTER AT A GLANCE

- Multi-stage filter technology for clean air
- 4 fan speeds incl. whisper mode
- Ionizer and humidifier with air washing function
- Removal of pollutants from the air
- High air flow rate
- Functionally optimized and elegant design
- Automatic mode, sleep and timer function
- Air quality indicator, filter change indicator



SPECIFICATIONS

Rated voltage	230 V ~ / 50 Hz
Rated power	50 W
CADR	350 m ³ / h
Humidification capacity	max. 300 ml / h
Noise level	max. 59dB (A)
Dimensions (W*H*D)	416 x 625 x 251 mm
Weight	10,5 kg



BestAir

www.bwishop.de

Produced for BWI BestWater GmbH

SPECIAL FEATURES

AIR HUMIDIFICATION AND AIR WASHING

In addition to functioning as an air purifier, the unit also has an integrated humidifier, as well as a resulting air wash function. A simple push of a button activates the air humidification/washing function. A flap opens inside the unit, which ensures that some of the air flowing through the unit passes through the humidifying filter. At this point, the air is not only enriched with up to 300 ml of water per hour, but dust and other particles are also bound by the water film.

MULTI-STAGE FILTER TECHNOLOGY



The filter package of this unit combines several different types of filters. This provides optimal filtration performance and allows many different pollutants to be filtered out of the air.

AUTOMATIC OPERATION AND AIR MONITORING

This unit measures the PM2.5 particulate matter currently present in the room air. This reading, along with humidity and temperature, is visible at a glance on the display. In addition, the fine dust load is visualized qualitatively by means of several colored LEDs at the air outlet. The smart sensor automatically adjusts the air flow rate to the air quality. Furthermore, a light sensor can be used to automatically switch to sleep mode, e.g. when you turn off the light to go to bed.

This brochure was presented to you by:

BestAir AirJet 2000



Clean air for a better life.

Produced for BWI BestWater GmbH

PARTICULATE MATTER AS A PATHOGEN

On average, people today spend 90% of their time indoors. 65% of the time alone only at home. More than 70% of the population works indoors in offices, so protecting health from PM2.5 particulate matter is becoming increasingly important. The problem is that people in indoor environments are more susceptible to PM2.5 particulate matter. The main sources of outdoor particulate matter are known to be: Smoking and exhaust fumes.



The WHO reports that 70% of human diseases are caused by poor indoor air. 30% of people living in apartments and new buildings are reported to suffer from sick building syndrome (SBS), which is headaches, drowsiness and fatigue.

WHAT IS PARTICULATE MATTER PM2.5?

Atmospheric particulate matter PM2.5 has a diameter of less than 2.5 micron particles. Its diameter is 1/20 smaller than the diameter of human hair. Due to their small size, these particles penetrate into the bronchi and even alveoli. They also have a higher residence time in the air than larger particles.

PM2.5 HAZARDS

The WHO pointed out in its 2005 edition of „Air Quality Guidelines“: An average annual PM2.5 concentration of 35 micrograms per cubic meter increases a person's risk of death by about 15% compared to a case of 10 micrograms per cubic meter. A United Nations Environment Program report states that if the concentration of 20 mg PM2.5 per cubic meter were increased, there



would be about 34 million deaths per year in China and India.

The AirJet 2000 permanently measures the fine dust content of the air during operation and is equipped with a particle filter that has depth filtration properties in addition to normal filter

properties and is therefore particularly suitable for fine dust. Larger fine dust particles are filtered out by means of the sieving effect of the filter material. Depth filtration ensures that the filter can securely bind even the smallest particles by means of adhesion forces. This means that fine dust can be efficiently removed from the air that is cleaned by the unit.

Another advantage of the AirJet 2000 is that it is able to reduce fine dust in the air by humidifying the air. Fine dust particles absorb the moisture and thus change their size. This allows the AirJet 2000 to clean rooms faster and remove fine dust from the room air.

TOBACCO

According to the German Cancer Research Center tobacco smoke is composed of more than 4800 substances, most of which are formed when the tobacco is burned. At least 250 of these substances are toxic or carcinogenic. Among the most relevant and probably also most harmful to health carcinogenic ingredients are polonium 210 (radioactive), selenium, lead, arsenic, benzene, and various aldehydes.

The fact that tobacco smoke can cause lasting damage to a smoker's health and cause the most serious illnesses has been known and proven not only since the introduction of the discouraging texts and pictures on sales packaging. However, it is not only the smoker himself who is affected by the effects of tobacco consumption, but also his environment and, in particular, his fellow human beings. If smoking takes place in a room, this also affects all other people present and even pets. Especially the sensitive organism of children can suffer the most severe health and permanent damage from the multitude of carcinogenic substances.



The U.S. Environmental Protection Agency (EPA) and the International Agency for Research on Cancer have classified carbon monoxide, formaldehyde and other toxic substances as Class A carcinogens.

Not only does tobacco smoke affect the health of living things, but it also affects living space and fixtures. This includes yellowing of walls, discoloration and stains on furnishings, and in some cases permanent odor nuisance. These damages and impairments can often only be remedied by renovation measures, such as painting the walls.

ALLERGY TRIGGERS IN INDOOR AIR

A large number of allergies and associated allergy triggers are existing on our planet. Many of them can be transmitted or transported through the air and can therefore also be inhaled or come into contact with the skin.

HAY FEVER

Hay fever or pollen allergy can be triggered by pollen from a wide variety of trees, flowers, grasses and other plants. Depending on the severity of the allergy, hay fever is caused by pollen from different plants. The core time of the allergy is, of course, the blooming phase of the corresponding plants. But allergic reactions can also occur after flowering. The reason for this is the pollen that has been deposited on the floor, furniture, etc., and is then reintroduced into the air in the room through air movement.



Common symptoms are irritation of the mucous membranes, sniffing and sneezing, itching and fatigue.

Pollen have a size between 10 and 180 micrometers. The air purifier can filter even the smallest particles very efficiently. Thus, the filtering of pollen is not a problem for the AirJet 2000.

HOUSE DUST ALLERGY

Allergic reactions of a house dust allergy sufferer are not triggered by the dust itself, but by enzymes of the house dust mite. These enzymes are found in the feces and remains of dead mites. These enzyme-coated particles are very light and therefore easily enter the room air. A small draft of air is already sufficient for this. Common symptoms: are irritation of the mucous membranes, cough and cold, and fatigue.

The mite particles usually have a particle size of around 35 micrometers and can be filtered out very well by the AirJet 2000.

MOLD ALLERGY

Molds do not only appear in damp, poorly ventilated rooms in the form of black „carpets“ on walls or ceilings. These fungi can be found almost everywhere, both indoors and outdoors. In this type of allergy, the immune system reacts to the spores and parts of the mold that cannot be seen with the naked eye. These spores/parts have very good floating properties and are thus present, often in high concentrations, in the indoor air. Common symptoms include irritation of the mucous membranes, coughing and runny nose, and irritation of the bronchial tubes and eyes.

Mold spores range in size from 3 to 10 microns, and the AirJet 2000 can easily filter them using its depth filtration properties. The spores are absorbed by the HEPA filter medium.

ANIMAL HAIR ALLERGY (DANDER)

Triggers for this type of allergy are not, as the name suggests, the hair of the animal itself, but protein-containing components of the animal saliva (or also sweat and urine) on it. These allergy triggers can also be found, for example, on the skin scales of the animals. Due to the size of the hairs/skin dandruff, they can easily be whirled through the air by a draft and thus come into contact with the skin or even be inhaled. Common symptoms include irritation of the mucous membranes, cough and cold, and irritation of the bronchial tubes and eyes.

Particles containing animal allergens often have a size starting at about 2 microns. In particular, very small allergenic particles are present in cats. The AirJet 2000 can remove well over 90% of these particles from the air. The special depth filtration properties of the AirJet ensure this.

AREAS OF APPLICATION OF THE AIRJET 2000

It is recommended to install the AirJet 2000 air purifier at home and in the office, as most pathogens in the air are found indoors. Laser printers that may be set up there also release fine dust. The AirJet 2000 air cleaner should only not be installed in rooms with strong temperature fluctuations, such as in the kitchen or bathroom, as this can lead to condensation inside the device.

Due to the very good air filtration, you can install the AirJet 2000 air filter in waiting rooms of medical practices without any problems, as viruses and bacteria are effectively removed from the air. This greatly reduces the risk of infection among people. However, one must keep in mind: The AirJet 2000 is not a substitute for regular ventilation and vacuuming. However, it does



help to massively improve indoor air quality with its technology.

THE FILTERS OF THE AIRJET 2000

1 PREFILTER

The first air filter in the cleaning process is the pre-filter. It is used to remove larger particles such as dust, lint and hair.

- Filterable particles, tobacco smoke components and allergens in the room air:
- Coarse particles
 - Dust lint
 - Allergenic coarse particles
 - Animal hair
 - Mold spores
 - Larger pollen
 - Coarse particles contaminated by tobacco smoke

2 PARTICLE FILTER

Second, the air cleaned of coarse particles is passed through a particle filter, which is capable of capturing even small particles. This process is repeated in the 4th process step to ensure an optimal cleaning result.

- Filterable particles, tobacco smoke components and allergens in indoor air:
- Particles PM10 and PM2.5
 - Allergenic particles
 - Animal hair and dander
 - Mold spores, parts of molds
 - pollen
 - House dust, mite excrement, parts of mites
 - Particles contaminated by tobacco smoke
 - Smoke particles

