

**UGMA**

Ultra High Efficiency Organic Gel Microbial Air Filter

# UGMA AIR PURIFIER

## UGM-AP-80



# CLEAN AIR FOR HEALTH

**UGMA; UGM-AP-80 Industrial Air Purifier improves indoor air quality by evacuating up to 99.9% of viruses, bacteria, yeast, mold, mold spores, allergens, particles and harmful gases.**



Virus



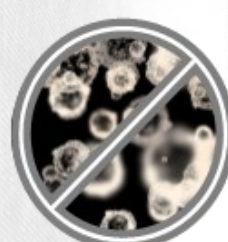
Bacteria



Mold



Cigarette Smoke



Dust/Pollen



Micro-organisms





# HOW HEALTHY IS THE AIR YOU BREATHE?



In every breath you inhaled, many microscopic harmful gases, allergens, microorganisms and bacteria in that are invisible to the naked eye are transferred to the body.

Cleanliness of the air in living spaces is crucial for human health and has become a necessity in daily life. The UGMA Air Purifier UGM-AP-80 offers you a quality, spacious living space with its high performance and elegant design.

# OVERVIEW



1 Front cover/ Air suction vent

2 Activated Carbon Filter

3 UGMA Filter

4 Filter hole

5 Trunk

6 Ceiling hanging bracket

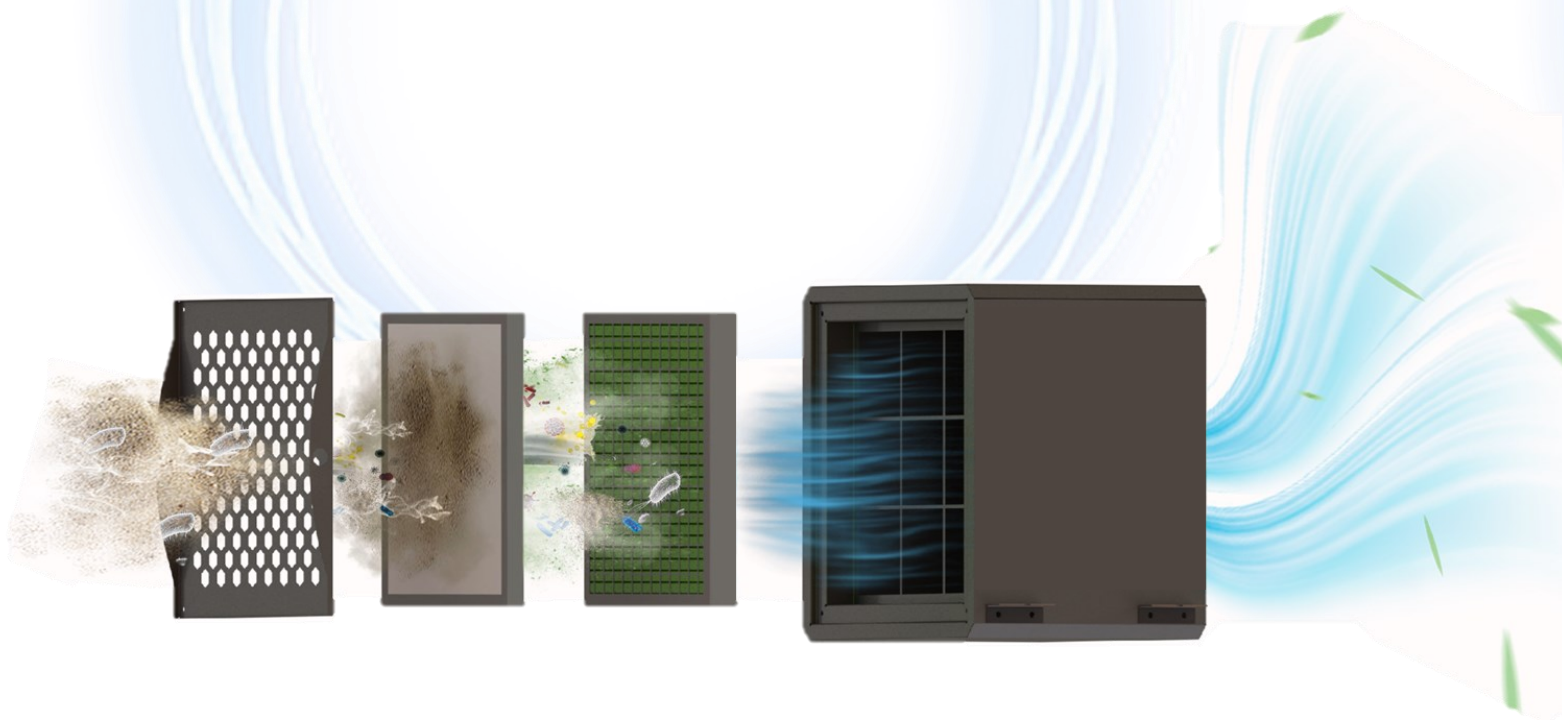
7 Fan hole/ Fan

8 Back cover/ Air exit vent



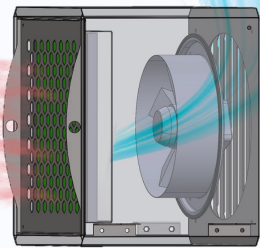
# UGM-AP-80 CLEAN AIR TECHNOLOGY

Harmful gases, microorganisms and particles contained in the environment pass through the air suction vents. Harmful gases passing through the suction vent are kept above 90% by the Activated carbon filter. Harmful microorganisms and particles in the environment are also filtered by 99.9% with the UGMA filter. Filtered fresh air is delivered to the environment by being directed to the exit vent with a high efficiency router.



Many institutions, especially the World Health Organization, encourage the use of appropriate ventilation systems to protect against diseases and emphasize the cleanliness of the inhaled air. UGM-AP-80 Industrial Air Purifier offers you a healthy living space.

# UGM-AP-80 CLEAN AIR TECHNOLOGY

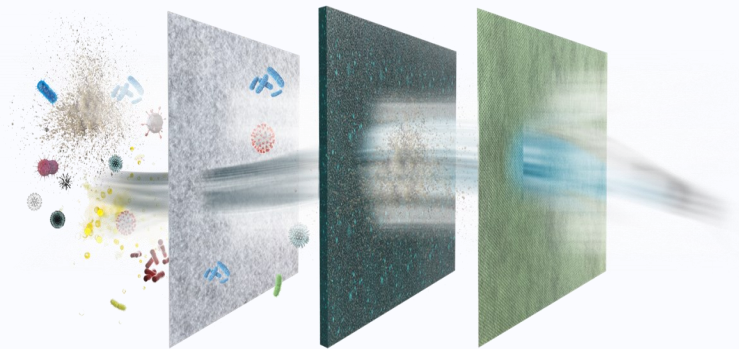


## Air Flow Model

After the airflow simulation tests are performed, a laminar flow is provided without turbulence due to the suction and blowing vents created; dirty air is sucked in, filtered, and filtered fresh air is delivered to the environment. In this way, the ambient air is cleaned in a highly efficient way. The UGM-AP-80, which has a unique design that minimizes the risk of transmission, provides the healthiest and most reliable air flow model in any environment.

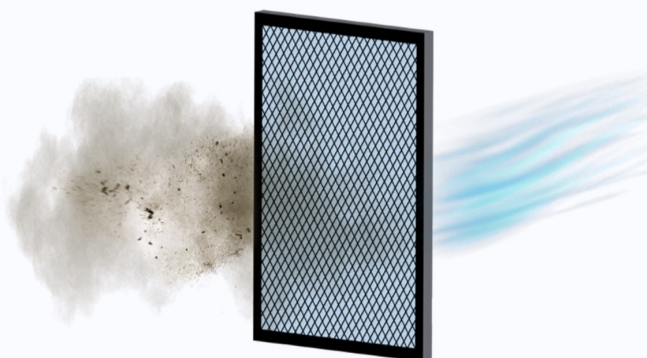
## UGMA Filter

It consists of a three-layer structure. UGMA filter filters out all microbial agents such as viruses, bacteria, yeast, mold, mold spores, allergens, and all harmful particles by 99.9%. It destroys organic, inorganic gases and bad odors. UGMA Filter has a lifetime of 2 years in a vacuum package and 2 months after opening the package.



## Activated Carbon Filter

The activated carbon filter has the ability to capture and retain gas molecules. The surface of the activated carbon filter consists of millions of small pores. Thanks to these pores, toxic gases and dirt that emit many odors are retained. Granules were filled, and a 20 mm thick activated carbon filter with a very high adsorbent was used.



## Fan

It has a low maintenance cost with an easy application area. It fans clean air to the environment by providing a faster air transfer in industrial areas where air pollution is



# USAGE AREAS



UGM-AP-80 Industrial Air Purifier improves indoor air quality by purifying the air in the environment from harmful particles such as dust, bacteria, harmful microorganisms, fungi, odors, and smoke.

Device usage area is 90 m<sup>2</sup>. In order to get maximum efficiency from the device, mount the device with hanging devices on the wall or ceiling at a height of 2.5 - 3.5 m above the ground.

- ♦ Shops
- ♦ Markets
- ♦ Schools and classrooms
- ♦ Offices
- ♦ Food warehouses
- ♦ Waiting rooms
- ♦ Sport halls
- ♦ Hotel lobbies
- ♦ Examination rooms
- ♦ Restaurants and cafes
- ♦ Public buildings
- ♦ Hospitals and pharmacies
- ♦ Veterinary clinics
- ♦ Laboratories
- ♦ Food production facilities



# UGM-AP-80 TECHNICAL SPECIFICATIONS



## FEATURES AND FUNCTIONS

Fan Motor	Axial Fan
Drawn Power (W) /Voltage(V) / Current (A)	160 W / 230 V/ 0,72 A
Air Entry	On the Front Cover
Air Exit	On the Back Cover
Air Amount	830 m <sup>3</sup> /h
Type of Material	DKP Painted Sheet Metal
Sound Intensity dB(A)	<57

## FILTER

UGMA Filter	✓
Activated Carbon Filter	✓
Filtering Efficiency	99,99%

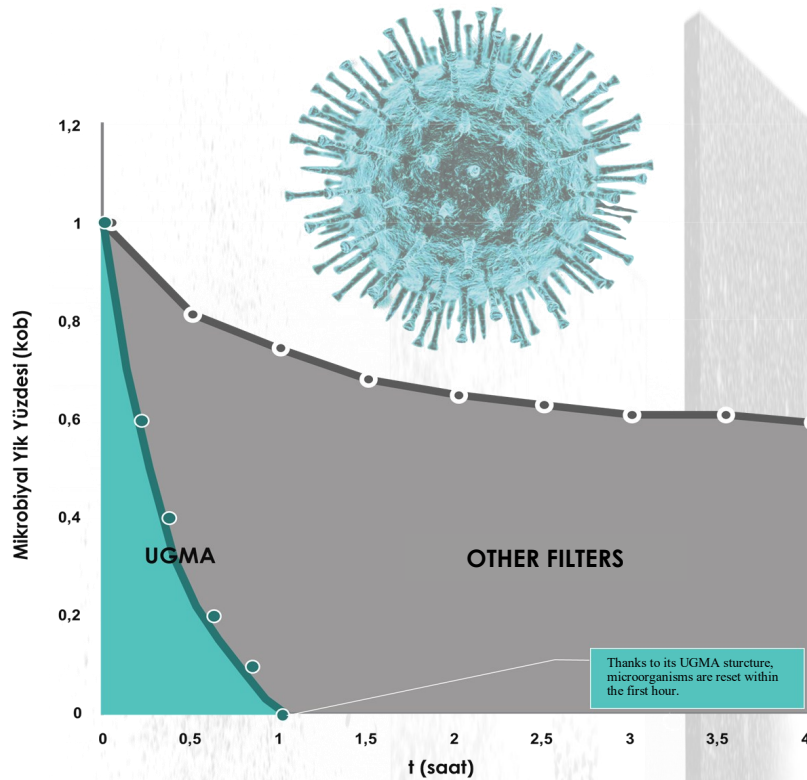
## DIMENSION

Length (A-Excluding packaging) [mm]	385
Width (excluding B-Packing) [mm]	500
Height (excluding C-Packing) [mm]	500



# UGMA FILTER TECHNICAL SPECIFICATIONS

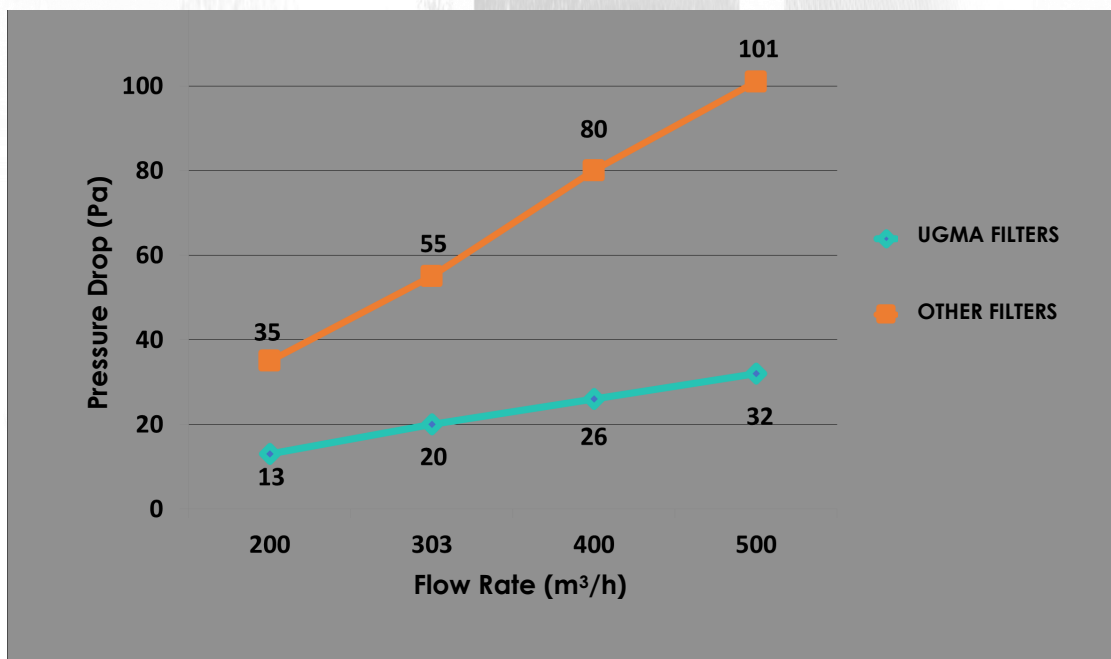
## MICROBIAL RETENTION



- ♦ Retaining bacteria, yeast, mold, mold spores and allergens, including viruses.
- ♦ UGMA Filter resets micro-organisms in the first hour as per TS 13848.
- ♦ It filters micro-organisms as per En 14683 +AC standard by 99.9% .
- ♦ It has been registered to filter the COVID-19 virus by 98.76%.

## DIFFERENTIAL PRESSURE COMPARISON

- ♦ The pressure difference in UGMA class filters is initially 13 Pa and after use it is 32 Pa.
- ♦ In the other filter, the pressure difference is initially 35 Pa and after use it is 101 Pa .
- ♦ These ratios indicate that the air passing through UGMA filters has at least 3 times more air permeability than other filters.
- ♦ Low difference-pressure means high energy efficiency.





**Ultra High Efficiency Organic Gel Microbial Air Filter**

UGMA Filtration Technology products are approved by Turkish Standard (TS 13848:2018), ISO 9001, ISO 13485, CE, TÜV Austria and Ministry of Health. Its effectiveness has been registered by accredited institutions, especially Yeditepe University, SGS, Ekoteks laboratory and TSE.

With the highest performing gel air filtration system in the world, UGMA produces air filters, medical masks and air cleaning devices for the first time in human history, which filter all invisible organisms including viruses by 99.9 per cent. Our products are 100% Domestic production.

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