



*Express your love with the
source of fresh life*

A. O. Smith Air Purifier uses MERV 17 advanced HEPA filter, which helps remove small contaminants including dust, bacteria, viruses and allergens with high precision to give you peace of mind.

A. O. Smith Air Purifiers
American Technology - Over 144 years of experience

A. O. SMITH AIR PURIFIER

New standard of Air Purifiers



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THE THREAT WHICH IS NOT VISIBLE

TVOC - VOLATILE ORGANIC COMPOUNDS

TVOC compounds are present in every home through products like paint, detergents, gasoline etc., which are of daily use. These compounds immediately affects your body causing eye irritation, headache, dizziness etc. and long exposure to such compounds can cause memory loss and cancer as well. The most common TVOC compound found is formaldehyde, which can come from plywood, sawdust and glue.

PM2.5 - SUPER FINE DUST

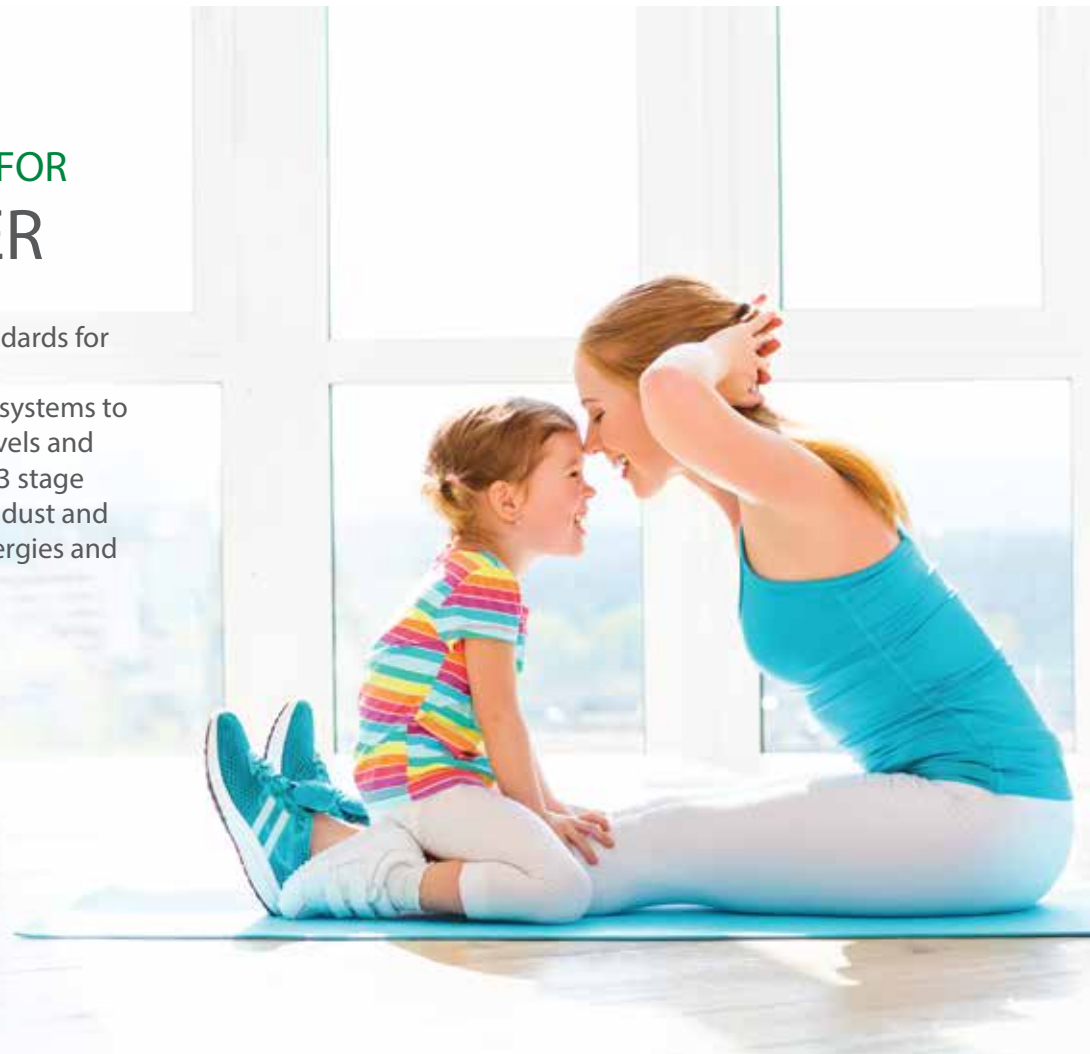
Super fine dust having a diameter of 2.5 micrometre are not visible to naked eyes. These molecules are small enough to reach your lungs and even mix with your blood. PM 2.5 can accumulate in your lungs to cause lung congestion and a higher stage lung cancer.

A. O. Smith Air Purifiers - American Technology - Over 144 years of experience



NEW BENCHMARK FOR AIR PURIFIER

A. O. Smith has set new standards for Air Purifier with its patented technology of smart sensor systems to show real time air quality levels and high end MERV 17 certified 3 stage filtration to clean super fine dust and protect your family from allergies and asthma.



AIR PURIFIER AIR PURIFIER



Super fast filters

Cleans air in just 30 Min. of 100m² room



Super fine dust filter

Super smooth removal of PM 2.5 (Super fine dust), due to MERV 17 standard HEPA filtration.



Air quality in real time

Patented smart sensor gives precise PM 2.5 dust density in real time.



Formaldehyde Purification

Formaldehyde, which is the most active compound of TVOC gases present in household, is removed effectively to give fresh air output.

In the report of the Department of Health and Human Services of the United States (U.S. Department of Health and Human Services) which was announced on 03/11/2016, Formaldehyde is in the list of toxins which can cause cancer.

The study shows that exposure to Formaldehyde causes nose, throat, lymph, and spinal cord cancer. Formaldehyde exists everywhere in the air, both outdoors and indoors. Not only in the laboratory and industry but it exists in soil, water and food as well.

Humans are exposed to Formaldehyde through items such as furniture, paint walls, toilet cleaners, laundry soap etc. Source: 14th report on carcinogens of the Department of Health and Human Services the United States-November 2016 (<https://ntp.niehs.nih.gov/pubhealth/roc/index-1.html>).



NEW BENCHMARK FOR AIR PURIFIER

Removal of Formaldehyde, Toluene, TVOC & other harmful gases up to 120m³/h

120m³/h

FORMALDEHYDE PURIFICATION CAPACITY (TVOC)

500m³/h

DUST FILTRATION CAPACITY

(*) Product line KJ500F-B01

WARNING TO REPLACE THE MEMBRANE FILTER

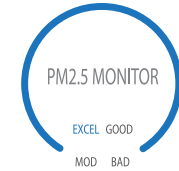
MAIN FILTER

Main filter indicator above shows the filter is functioning well and has full life.

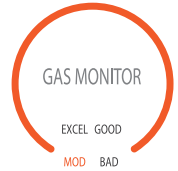
PRE FILTER

Pre Filter indicator above shows filter life is finished and needs a replacement

SHOWS THE STATUS OF AIR QUALITY



PM2.5

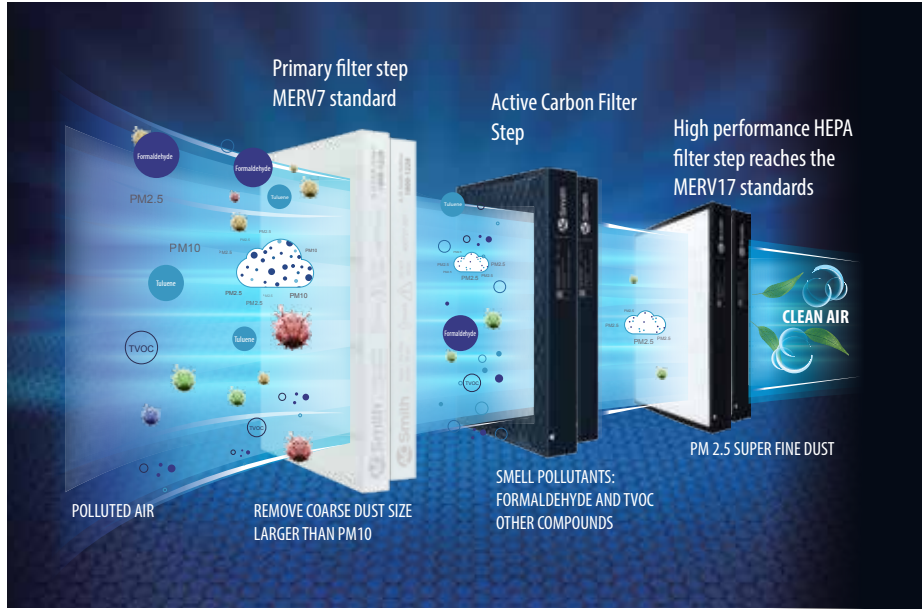


Gas

THE ELECTRONICS SCREEN

THE PATENTED DISPLAY
SHOWS THE SUPER FINE DUST
OF PM 2.5 IN REAL TIME





(*) Membrane type filter is the HEPA filter in level essential for filtering parts, often as the last in a line of glass filter for clean rooms.

MERV: Standard scale to check efficiency of air filtration membrane and rate them from level 1 to 20. MERV17 Level 20 used in environments that require the highest degree of cleanliness and fresh air like hospital surgical rooms

MULTI-LAYER FILTRATION SYSTEM

3 LEVEL FILTRATION WITH DUAL SYSTEM

1 2 PRIMARY FILTER MERV7 STANDARD (*)

Removes the dirt and pollutants of bigger size (PM10) and help to increase the longevity of the main filter.

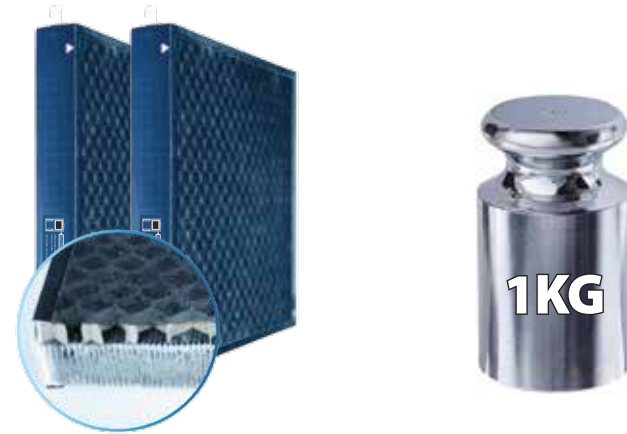
2 2 ACTIVE CARBON FILTER

Removes TVOC, Formaldehyde, Toluene, toxic odours which is normally found in household furniture, paint, sawdust, fabric etc.

3 2 HEPA FILTER (*) HIGH PERFORMANCE MERV17 STANDARD

Removes super smooth dust particles from PM 10 to PM 2.5. HEPA filter and activated carbon work together to release clean and fresh air.

FILTRATION MEMBRANE CARBON LARGE DENSITY



High quality activated charcoal can absorb toxic substances contained in the air such as Formaldehyde, toluene and TVOC.

FILTRATION MEMBRANE HEPA MERV17



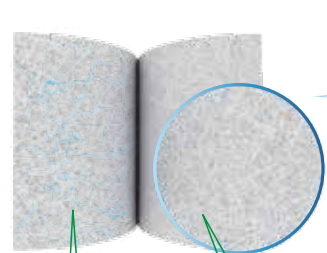
3.6 METER SQUARE AREA CAN HOST A LARGE AMOUNT OF DUST. HIGH LONGEVITY.

A. O. Smith uses MERV 17 standard HEPA Filters which can cover an area up to 100 folds from 3.6m² filter area. The thick fold of density helps the MERV 17 HEPA filter membrane to filter PM 2.5 super smooth molecules with the highest performance.

A. O. Smith MERV 17 HEPA filter membrane is made of fibreglass frame and PP compression of super thin glass, which creates highest performance in extreme conditions and prolongs the filter membrane life.

COMPARISON OF HEPA FILTER MEMBRANE

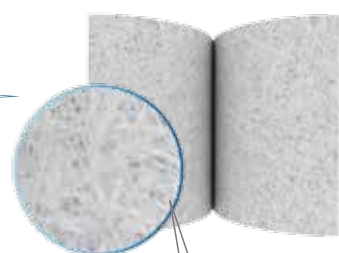
MERV17 HEPA FILTER MEMBRANE OF A. O. SMITH



Glass fiber frame helps prolong the membrane filter.

PP non-woven layer of compressed air filter improve in the long run.

CONVENTIONAL HEPA FILTER MEMBRANE



PP thin layer woven into the mesh with large holes size, which limits the ability of filter to clean super smooth dust.

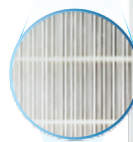
VS

PRIMARY FILTER MEMBRANE OF A. O. SMITH STANDARD MERV7

A. O. SMITH PRIMARY FILTER MEMBRANE

THE TOTAL AMOUNT OF DUST FILTER IS

78.000 MG



MINIMUM SHELF LIFE

12 Months

In terms of serious air pollution

Made of fiberglass and PP, it eliminates polluting components from PM 100 to PM 10 and helps in extending life of the main filter.

REGULAR PRIMARY FILTER



VS

These are mesh filter made of plastic, steel with large pore size, which lets PM 10 and above particles pass to main HEPA filter and thus reduce the life of HEPA filter.





THE ABILITY TO CLEAN AIR
SUPER FAST

A. O. Smith Air Purifier with filtration capacity 500m³/h (CADR) takes just 24 minutes to clean a room of 26m² with heavy pollution and with PM 2.5 dust levels at 1000mcg/m³.

The result was made by the Corporate Technology Center (CTC) in Milwaukee, Wisconsin, USA.



Above given are results of experiment conducted in 26m² room with PM 2.5 as primary pollutants. The comparison shows the filtration capability between A. O. Smith Air Purifier with CADR 500 m³/h and other air purifier with CADR 216m³/h.

UNIQUE
DUAL AIR INTAKE
DUAL AIR OUTPUT



EASY AND CONVENIENT WITH
3 MODES
AUTO SWITCH



SENSOR SYSTEM
SMART

DID YOU KNOW?
A. O. Smith Air Purifier has three intelligent sensor functions that helps to measure the amount of dust and gas that exist in the air.

Sensor
PM 2.5

Gas
Sensor

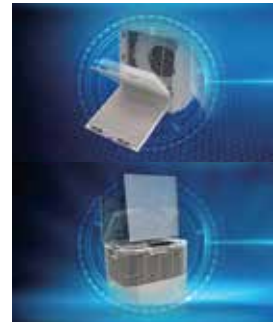
Dust sensor



COMFORT AND FRIENDLINESS WITH THE USER



SANITARY AND CONVENIENT MOUNTING



- Open the cover of the two sides to remove the primary filter stubs.
- Open the cover on to the main filter Assembly (carbon membrane combined with HEPA MERV17 membranes).

EASY TRANSPORT



360° navigation wheel can rotate 4-way makes it easy to move to different positions.

A. O. SMITH AIR PURIFIER FRIENDLY TO THE ENVIRONMENT

Use 100% natural filtration technology, no ozones, and ions which are harmful to health, especially to small children.



Complete filter according to physical principles, not using negative ions or ozone, causing no re air pollution.



()Use of ozone or negative ions to purify the air or sterilized can cause Re air pollution.*



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SPECIFICATIONS

Line of products			KJ500F-B01	KJ1200F-B01
Filter capacity (Clean air delivery rate - CADR)	Dust components	m ³ /h	500	1200
	Formaldehyde		120	500
The total amount of dust filter (Cumulate Clean Mass - CCM)	Dust components	Filter level	P4 (highest)	P4 (highest)
	Formaldehyde		F4 (highest)	F4 (highest)
Power consumption		W	63	146
Filter performance	Dust components	m ³ /(W.h)	7.9	8.2
	Formaldehyde		1.9	3.4
The noise level		dB(A)	63	68
An area of suitable rooms		m ²	40~60	84~144
Voltage			220V~/50Hz	220V~/50Hz
Dimensions (Width x Depth x Height)		mm	381x275x708	450x296x1420
Weight		Kg	14	44

YOU MAY NOT KNOW

• Why A.O Smith air filter does not integrate the function dehumidifier?

Humidity will create favourable conditions for the growth of bacteria, mold, which can affect human health. Moisture can damage the electrical equipment in the home, reducing the performance of the machine.

Water in reservoir dehumidifier to create humidity can cause infection and risk of spreading harmful bacteria.

• Indoor air pollution can be two to five times higher than outdoor.



The Office has closed architecture and less air circulation. The Office equipment such as printers, copiers, furniture, adhesives are primarily TVOC dispersal sources.

Carpets, floor, furniture, paint walls, cabinets, blanket, pillow, animal feed station are the sources of dust dispersal which can cause many respiratory and allergic diseases.

The child is the object most heavily influenced from air pollution. Children suffer from respiratory diseases, asthma, rhinitis, allergies ...



1874-1920: Established period

In 1874, A. O. Smith was founded in Milwaukee, Wisconsin, United States of America and quickly became the bicycle parts manufacturer in the world in the 19th century, and step into the automation industry in the first decade of the 20th century.

1920-1940: Phase of automation production line

A. O. Smith owns the factory automation of Assembly first cars of the early 20th century. In 1936, A. O. Smith received by technological invention glaze Glass-Lined up for hot water. A. O. Smith became the manufacturer of largest U.S. water heaters.

1940-1974: Development in North America and expands in Europe

A. O. Smith water heater factory in Ontario, Canada, and Europe. A. O. Smith celebrates 100 years at the same time introduce products famous Conserva-tionist® water heaters with the durability and superior operating performance.

1975-1995: Diversification of Products and Markets

A. O. Smith expands business activities to South American and Asian markets.



1996-2009: Restructuring and Global Development

A. O. Smith to expand research and Development Center, production line of hot water in Asia through merger and acquisition company, A. O. Smith became the world's largest company in the industry of water heaters.

2010-Present: Development and Achievement

A. O. Smith is granted the first patent in the world for RO filtration membrane technology of Side-Stream with the highest water recovery ratio, saving energy, protecting environment and prolong the filter core.

In 2017, A. O. Smith Corporation celebrates 144 years of establishment.



In the field of water purification, A. O. Smith is into 144 years of invention in RO water filter technology application and treatment.

