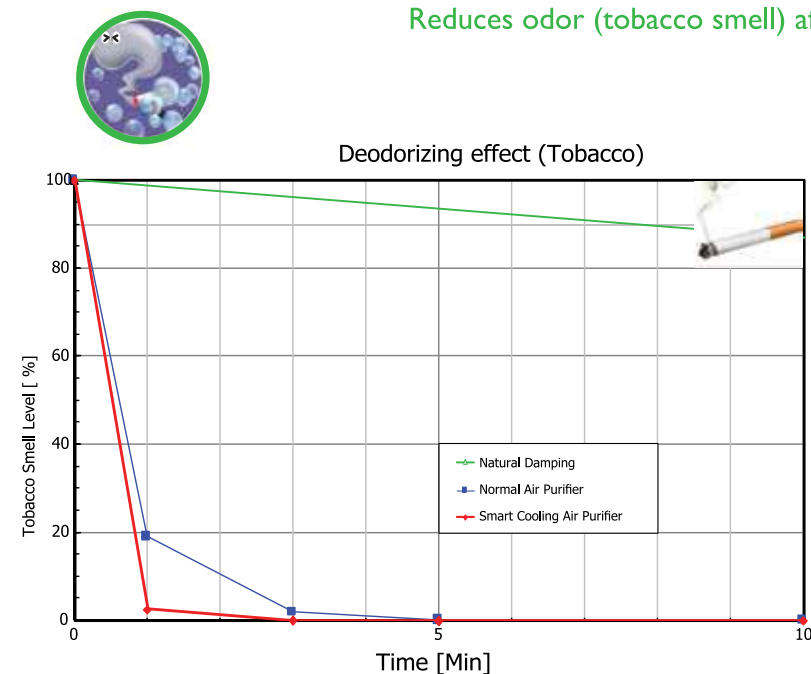


## Deodorization

Reduces odor (tobacco smell) after 10 minutes



**Test Laboratory:** KDK Corporation Analysis Center  
**Deodorization Method:** Mist Cooling Particles  
**Test Subject:** Adhering Tobacco Smell

### Test condition

Gases to be measured Ammonia (NH<sub>3</sub>) Acetaldehyde (CH<sub>3</sub>CHO)  
Acetic acid (CH<sub>3</sub>COOH)

### Measurement box

Measurement box shall be airtight container (made of glass or acrylate resin) with 1m<sup>3</sup> (1m×1m×1m) and air cleaner shall be put in the measurement box in accordance with Drawing 2. Then stirring fan (0.7m<sup>3</sup>/min) equivalent to smoke inhalator shall be mounted in order to stabilize fumes distribution.

### Test method

#### 3.1 Measurement condition

5 sticks of cigarettes from the Cigarette smoke inhalator shall be burned at a time in approximately 6 to 8 minutes. However, if the cigarette burns fast and reaches filter, the smoke inhalator shall stop automatically, while the rest shall continue to burn naturally.

- The air cleaner will stop operating when the cigarette is burning.
- The Air cleaner shall switch on and off without opening the vent.
- The stirring fan will turn off when air cleaner is functioning.

### Measurement of Initial gas concentration

Initial gas concentration shall be measured 2 to 5 minutes after burnout of cigarette.

First of all, Ammonia and Acetaldehyde shall be measured at a time and Acetic acid shall be measured next.

### Measurement of Remaining gas concentration

Operate air cleaner for 30 minutes.

Stop operation and measure the concentration by the method specified in Item

## Advantages of Mist Cooling Humidifiers:

Provides you the most comfortable humidity conditions

## Benefits of Humidification



### Softer, more vibrant skin.

Cold, dry air saps moisture from your skin, which causes all kinds of problems, including dryness, dullness, flaking, and accelerated aging. A humidifier can help prevent all these damaging effects, and help you maintain that glowing, vibrant looking skin



### Faster healing times.

Keeping your nasal passages and your throat moist will help you heal faster, and will reduce symptoms like coughing and sneezing.



### Reduce risk of infections.

Viruses and bacteria can't travel as well in moist air.



### Protected wood furnishings.

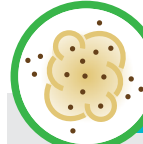
Dry air can damage wood furniture, as well as moldings and doors, causing them to split and crack.  
A humidifier can help preserve the wood, maintaining your pieces for years to come.

## Smart Sensors



### Sandstorm Sensor

Sandstorm indicator can indicate the pollution of sand dust – and adjust the fan speed accordingly



### Dirt Sensor

The sensor can detect the pollution of the air, and show the pollution level by indicator. The product can adjust the air volume according to the air pollution automatically and purify air by optimal air volume when the setting of air volume is "Auto" operation.

### Sensor Scope :

- Sand dust • House dust (dust, dead bodies and excreta • of ticks, mold spores, pollens etc.)
- Smoke (cigarettes, incenses etc.) • May detect Oil fumes and fog-stated water drip



### Temperature/ Humidity Sensor

The sensor will sense the current humidity and temperature of the room\*1  
\*1 which may differ from the value on your thermometer & hygrometer. For indication purpose only. It can't be set.

## Other Features



### Clean Sign

The cleanness of surrounding air can be recognized with the clean sign. Air quality is monitored by sensors and the pollutant level is indicated on the display.



### HEPA Filter

Removes 0.3µm particles up to 99.97%.



### Humidifying Function

During humidification, humidity sensor will detect the humidity of the room and control the operation accordingly.



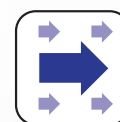
### Large Particle Pre-filter

Particles larger than 1mm do not move very far because of the weight, thus pre-filter removes these large sand particles, which in turn, increases the over-all life of these filters.



### Auto Mode

The appropriate speed will shift automatically according to the pollution level.



### Spot Air Mode

In case of quickly cleaning of air for specific area is required, such as removal of tobacco smell, 'Spot Air Mode' would be used. With this mode, the upper louver will stay at the position you preferred while speed is preset at Hi-Med notch.



### Remote Control

Enjoy the convenience of accessing and operating a host of functions from the comfort of your couch.



### Caster Lock

The caster can be locked to avoid incidents where the product is moved unintentionally.



### Child Lock

By turning on this function, any alternative selection is ignored in order to avoid intentional misuse or mis-operation.



SINCE 1909  
JAPAN

# Presenting Smart Cooling Air Purifier



Purifies Air with HEPA filter



Smart Mist Cooling



Humidifying & Deodorizing



# KDK Presents Smart Cooling Air Purifier

Give your loved ones what they deserve - pure and clean environment.

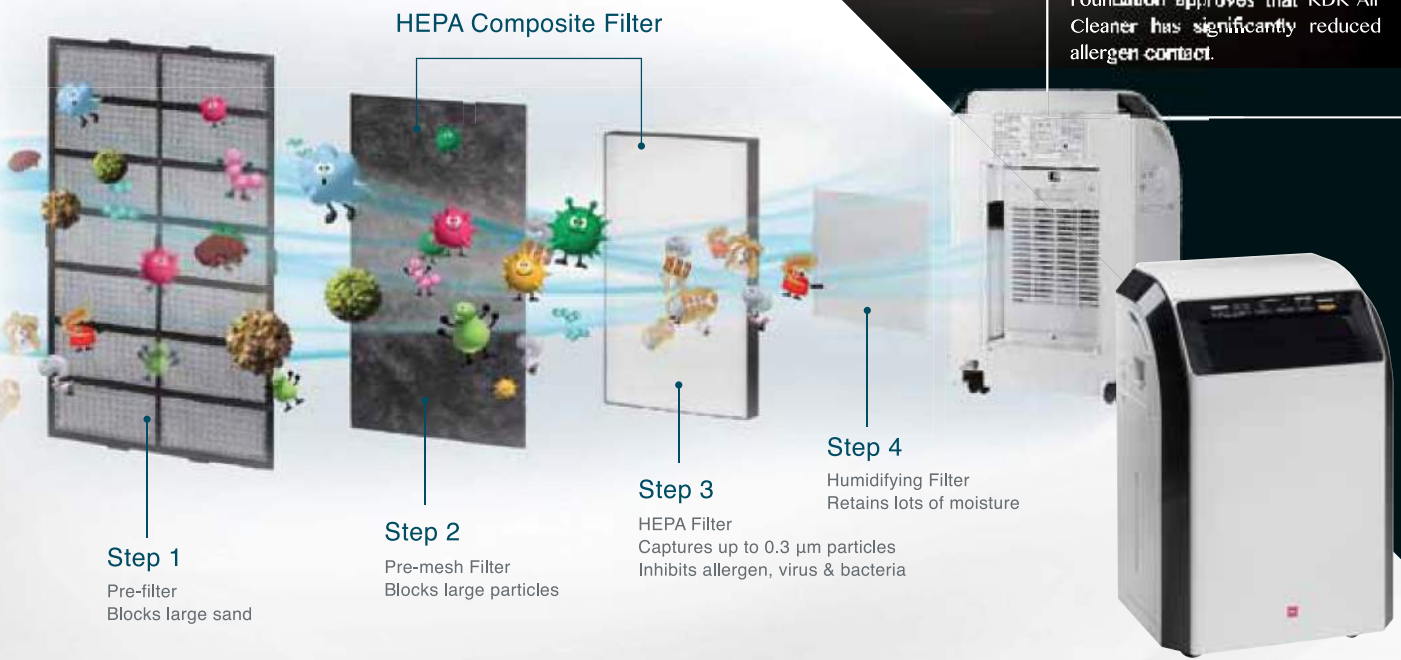
Purifying HEPA Filter	Humidifying Honeycomb Filter	Cooling Mist Technology
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## Efficient Capture



### HEPA Composite Filter

Maintains a clean space by removing 0.3 µm particles up to 99.97%<sup>(\*)</sup>



Super alleru-buster can inhibit certain kinds of allergen up to 99% by surrounding and restraining the allergens with the phenolic polymer.



Green Tea Catechin can inhibit certain kinds of virus up 99% by surrounding the viruses with the Catechin.



Anti-bacteria Enzyme prevents the reproduction of bacteria and molds in order to ensure clean environment.

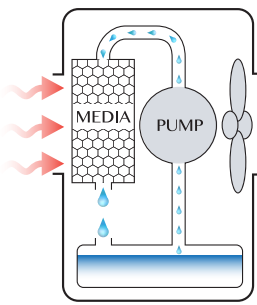
<sup>(\*)1</sup> Test Laboratory: Osaka Municipal Technical Research Institute of Japan / Test Methodology: Measure reduction level of tick allergen by Enzyme-linked Immuno Sorbent Assay / Inhibiting Method: Contact with Super alleru-buster / Test Subject: Allergens captured by filter (tick, pollen) / Test Result: 99% or more is inhibited (Report no. 2127)

<sup>(\*)2</sup> Test Laboratory: Kitasato Research Centre of Environmental Sciences / Test Methodology: Inhibit rate of virus by Plaque method / Inhibiting Method: contact with Catechin / Test Subject: Virus captured by filter / Test Result: 99% or more is inhibited (Report no. 15-0115)

<sup>(\*)3</sup> Test Laboratory: Japan Food Research Laboratory / Testing Methodology: Testing of anti-mold function of the filter; using the Harrow method (Report no. 207060074-002)

<sup>(\*)4</sup> Removal performance of filter only. The performance for whole house would be different

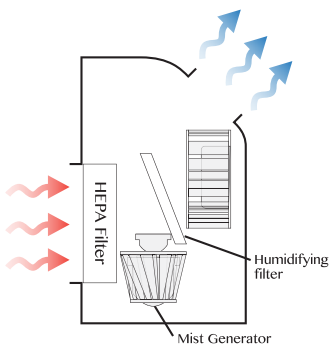
## Traditional Evaporative Cooler Mechanism



Typical evaporative air cooler

Evaporative Cooler Mechanism uses evaporation to cool the air. In an evaporative cooler, a pump circulates water from the reservoir on to a cooling pad, which in turn becomes very wet. A fan draws air from outside the unit through the moistened pad. As it passes through the pad the air is cooled by evaporation. The key to effective evaporative cooling is ensuring that each of the cooling pads are completely saturated at all times during operation and that the systems fan & motor are sized and designed to deliver the appropriate airflow for the home.

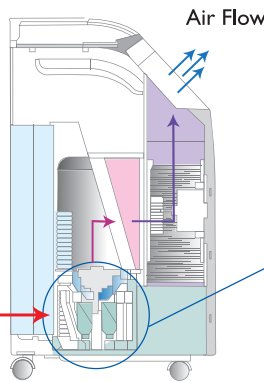
## KDK Unique Mist Cooling Technology



KDK innovation Mist Cooling Method

We at KDK used the simple fundamental technology where the water which is pulled from the side tanks is crushed by rotation of Mist rotor and extremely tiny mist particles - 1 µm are generated.

## Cool and Humid Air with Mist Technology



### Moisturise and Lowers Temperature about 10°C

Invisible mist has larger contact surface area which effectively absorbs the heat energy and makes you stay cool and comfortable in a day.

## Advantages:

### Mist Cooler VS Evaporative Coolers

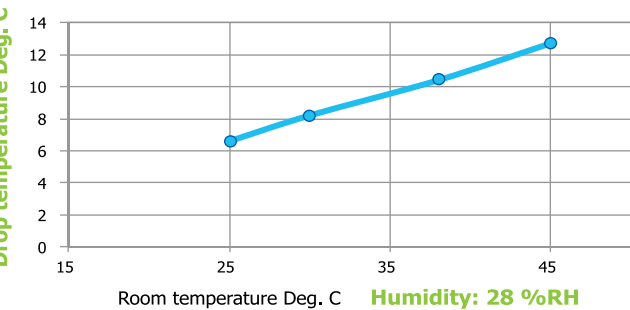
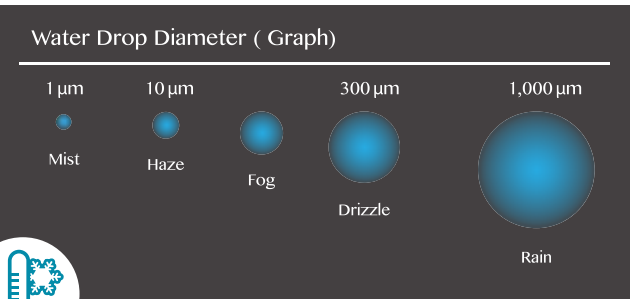
- 1 Faster and Effective Cooling - as the spread area coverage and the contact area is more due to which the temperature exchange efficiency is much greater as compared to the traditional evaporative cooling mechanism.

Cooling performance	
Competitors	Smart Cooling A.P.
Outlet temperature Conditions: 38 °C/28%	Outlet temperature Conditions: 38 °C/28%
-7.9 C°	-10.2 C°
Im forward Conditions: 38 °C/28%	Im forward Conditions: 38 °C/28%
-3.4 C°	-5.6 C°

- 2 Filters last upto 10 years as compared to the traditional evaporative coolers which last ranging from few months to maximum 2 years.

### Microscopic Scale of Different Water Particles

Our Mist Particles are 6 times smaller than the size of the steam particles, and 1000 times smaller than normal cooling particles.



Test conditions:  
Room temp: 38°, Humidity: 28%, Temperature scale: 30~40°

## Specification

Model No.		MCM85M			
Power Supply		220 V ~ 60 Hz		220 V ~ 240 V ~ 50 Hz	
Applicable Area		61m² (660Sq. Ft.)			
Capacity of the tank		15L (7.5L x2pcs)			
Feature	Remote Control	○			
	Timer	○ (2,4,8,12h)			
Filter	Pre-filter	○			
	Humidity filter	○ (10 years)			
	HEPA	○ (10 years)			
Specification	Air Volume (m³/min)	H: 8.5	M: 3.1	L: 1.1	
	Noise level (dB)	H: 55	M: 41	L: 39	
	Consumption(W)	H: 88	M: 17	L: 11	
	Humidifying Performance(mL/h) [20°C, 30%]	1,300	500	200	
	Cooling Performance(°C) [38°C, 28%]	-10°C Reduction			

## Application Place



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www.kdk-mea.com