

MEDAIR BULLETIN DECEMBER 2009

## MEDAIR 601 and 504 ElectroMed

Powerful to remove 0.01µm of fine dust particles including virus e.g. Swine Flue and Avian Flu

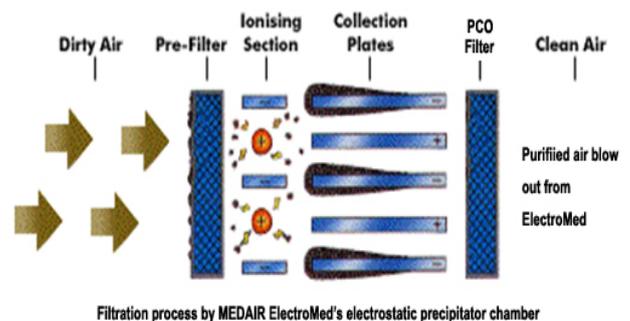
MEDAIR, the manufacturer of style, advance and professional, Italy-design, permanent use medical air treatment unit.

World health experts warn that most of the virus is spread through airborne particles, which occurs mostly from coughing, sneezing and direct physical contact, such as shaking hands. The rate of transmission is similar to seasonal influenza, according to the World Health Organization (WHO). WHO has issued guidelines for persons affected by the disease and for persons who want to protect themselves from getting the disease.



MEDAIR ElectroMed permanent use (Free of consumable filter) units quickly trap most airborne particles including bacteria and virus, which improves indoor air quality and contributes to a healthier indoor climate. No air purifier company is able to make claims about how effective their units are in controlling viruses or protecting people from contracting influenza – be it swine, avian or another type of flu. However, MEDAIR air treatment unit can help deter airborne particles, including bacteria and viruses, from circulating indoors since such particles with virus are trapped by MEDAIR patented design high voltage electrostatic precipitator filtration chamber (EP) 6,000 – 9,000 volt.

By capturing airborne particles, MEDAIR air treatment unit can help to reduce the concentration of viruses and other contaminants in a room within a short period of time. Independent testing indicates that MEDAIR units are one of the top performing room air treatment unit according to their ability to provide high clean air delivery rate, (Model: 601 provide 680m<sup>3</sup>/hour and 504 with 500 m<sup>3</sup>/hour air flow capacity).



Filtration process by MEDAIR ElectroMed's electrostatic precipitator chamber

Unlike other air purifiers, MEDAIR uses patented design high voltage electrostatic precipitator filtration chamber (EP) 6,000 – 9,000 volt that can trap fine dust particles including bacteria and virus down to  $0.01\mu\text{m}$  in size. (30 times smaller than normal HEPA  $0.3\mu\text{m}$  ). EP offer benefits over other traditional air purifications technologies, such as HEPA filtration, which require expensive filters and can become "production sinks" for many harmful forms of bacteria. MEDAIR consumable free stainless steel EP chamber let user can wash out the trapped pollutant, then the chamber will function back with optimum performance as likes as a new one.



**Safety facts:** Although the high voltage electrostatic operation theory, MEDAIR filtration process will produce "zero" ozone emitted and "Zero" UV light intensity leakage. Machine safety door lock device provide 100% protection for whom need to open the machine cover for internal parts cleaning.



Most other air purifier theory by HEPA is effective to trap the particles size from 0.3 to 1.0 micron only, or just a few of the market supplier may claim their professional machine can trap particles down to 0.1 micron in size. MEDAIR electrostatic precipitator filtration chamber is design for fine dust particles including bacteria and virus down to  $0.01\mu\text{m}$ .

To combat with the flu virus and to help people suffering from asthma, allergies and other respiratory illnesses, MEDAIR permanent use medical air treatment unit are ready for fight with user now.

*Conclusion: HEPA can remove  $0.3\mu\text{m}$  or above pollutant matters only, ,but EP can effective to remove down to  $0.01\mu\text{m}$  pollutant matters including virus. HEPA need to be replaced regularly, MEDAIR EP is permanent use with regular wash only.*

**Reference:**

*A study by the Canada Mortgage and Housing Corporation testing a variety of forced-air furnace filters found that EP filters provided the best, and most cost-effective means of cleaning air using a forced-air system.*

*The first portable EP air filter purifier machine for homes was marketed in 1954 by Raytheon.*

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... medical air treatment unit by MEDAIR



MEDAIR  
medical air treatment  
model: 601 ElectroMed



MEDAIR  
601 ElectroMed  
in OT Room

OT Room apply MEDAIR 601 ElectroMed for air sanitizing purpose during the daily clean and sanitizing schedule.

601 Series  
990 x 425 x 260  
H x W x D (mm)  
Service 900 ft.2



504 Series  
625 x 430 x 260  
H x W x D (mm)  
Service 600 ft.2



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