

# Products Guide Book

... summary and features of MEDAIR  
... 601 and 504 series



Guide Book

MEDAIR  
MEDAIR

GUIDE BOOK

MEDAIR 601 and 504  
air treatment unit  
PRODUCTS GUIDE BOOK  
2013

# MEDAIR 601 and 504 Series PRODUCTS GUIDE BOOK 2013

To provide the best air treatment unit to market, MEDAIR not only focus on air clean delivery, but also provide the machine with under best protection and also reliable for all user:

MEDAIR believe that as a professional air treatment unit manufacturer, the following 8 criteria is a must for all air purifiers machine:

- Safety operation
- Silent operation
- Energy saving operation
- Optimum performance operation
- Consumable cost saving operation
- Maximum services area operation
- Air pollutant focusing removal operation
- Humanization operation



# Safety operation

All MEDAIR machines has been tested and certified with the following international standard:



For markets within the European Economic Area (EEA), all products sold need to be CE marked. With the CE mark, the manufacturer ensures that the product complies with essential requirements of EU directives including health, safety, function and environment. The CE mark assures that prescribed control procedure has been applied.



According to GB/T 18801-2008, GB 21551.3-2010 and GB/T 18204-2000 with reports/ certificate issued by a CNAS Laboratory registered under Hong Kong Laboratory Accreditation Scheme (HOKLAS) or Mutual Recognition Agreement (MRA) partner.

Testing Result:

GB/T 18801-2008: Clean Air Delivery Rate CADR Rating: 465

GB 21551.3-2010: Bacteria Killing Rate: 98%

GB/T 18204-2000: Ozone generation: Zero



The Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment 2002/95/EC (commonly referred to as the Restriction of Hazardous Substances Directive or RoHS) was adopted in February 2003 by the European Union. The RoHS directive took effect on 1 July 2006, and is required to be enforced and become law in each member state. This directive restricts (with exceptions) the use of six hazardous materials in the manufacture of various types of electronic and electrical equipment. It is closely linked with the Waste Electrical and Electronic Equipment Directive (WEEE) 2002/96/EC which sets collection, recycling and recovery targets for electrical goods and is part of a legislative initiative to solve the problem of huge amounts of toxic



The ISO 9000 family of standards is related to quality management systems and designed to help organizations ensure that they meet the needs of customers and other stakeholders while meeting statutory and regulatory requirements related to the product. The standards are published by ISO, and available through National standards bodies. ISO 9000 deals with the fundamentals of quality management systems, including the eight management principles on which the family of standards is based. ISO 9001 deals with the requirements that organizations wishing to meet the standard have to fulfill. Third party certification bodies provide independent confirmation that organizations meet the requirements of ISO 9001

## Silent operation

MEDAIR patented extreme silent machine fan motor bring the air treatment unit as quiet as possible during our operation. Less than 10dB that our human ear nearly can not sensitive to hear any unwanted noise. It make MEDAIR may be as the most silent air purifier on worldwide market today.

Noise from air purifiers are mainly produced from the fan or motor and the air pressure through the filter. High noise can cause severe annoyance and even affect health, causing physical and mental stress. The following references can be used as guidelines when comparing noise levels:

Normal speech at three feet distance:	65 dB
Standard vacuum cleaner:	70 dB
Normal business office:	50 to 60 dB
Normal window type air conditioner	40 to 50 dB
Bedrooms at nighttime (for adequate rest and sleep):	35 to 40 dB

MEDAIR 601 and 604 noise level:

	Speed 1	Speed 2	Speed 3	Speed 4	Speed 5
601	8	12	28	42	50
504	7	10	15	28	45

Conclusion: User can use 601 at speed 3 or 504 at speed 4 in bedroom at nighttime when sleep.

## Energy saving operation

Unlike other air purifier claim their machine how energy saving design, MEDAIR cost you HK\$0.24 to HK\$1.5 per day (24 hours operation).

With the patented energy saving DC Induction motor design, it makes all MEDAIR machine provide energy saving feature for user. Model 601 from 12 W to 65 W and Model 504 from 10W to 50W, just similar a light bulb in our home.

# Optimum performance operation

MEDAIR 601 and 504 has been tested by different independents laboratory. Not only the laboratory test, but also different field test. It proof MEDAIR can provide fast and effective air pollutants removal capacity including fine dust particles, chemical and also bacteria and virus etc...

**Tested by: eurofins Germany GMBH**

**Tested machine: MEDAIR 504 ElectroMed**

Parameters	Result
Ozone	"0" Zero Ozone emitted
HCHO	Remove 96% within 30 minutes
Benzene	Remove 92% within 10 minutes and 96% within 35 minutes

**Tested by: Hong Kong Baptist University**

**facility management office - health and safety group**

**Tested machine: MEDAIR 504 ElectroMed and 504 CarbonMed**

Parameters	Result
Ozone	Remove 67% within 15 minutes inside photocopier room
RSP PM10	Remove 33% within 15 minutes inside photocopier room

**Tested by: CMA Testing & Certification Laboratories Hong Kong**

**Tested machine: MEDAIR 601 ElectroMed**

Parameters	Result
Airborne Bacteria	Remove 85% inside Cataract OT room

**Tested by> IAQ Consultant Singapore**

**Tested machine: MEDAIR 504 ElectroMed and 601 ElectroMed**

Parameters	Result
Ambient particles: 0.3, 0.5, 1.0, 2.0 and 2.5 (um) PM2.5	601 was able to reduce the cigarette smoke particles from size 0.3um to 2.5um (PM2.5) present in the ambient air at the consultation room over 70% within 15 minutes & 90% within 30 minutes.  504 was able to reduce the cigarette smoke particles from size 0.3um to 2.5um (PM2.5) present in the ambient air at the consultation room over 70% within 30 minutes & 90% within 45 minutes

**Tested by: LAWN Environmental Limited Hong Kong**

**Tested machine: MEDAIR 601 ElectroMed / MediaMed / ChemMed / CarbonMed**

**Result: Removal rate in % within 1 hour in a room 200ft.2 with 10ft. height**

Parameters	ElectroMed	MediaMed	ChemMed	CarbonMed
TVOC	61.2	63.8	94.6	98.3
RSP (PM10)	99.3	97.2	53.9	50.1
Airborne	97.5	96.2	65.2	54.5
Bacteria (TBC)				

**Tested by: Hong Kong Air Purifier Center Limited**

**Tested machine: MEDAIR 601 ElectroMed and 504 ElectroMed**

**Result: Machine performance test & compare from the first day use with after 90 days use (1,080 hours) operated. Room 100ft.2 x 10ft. height. continuous air pollutant - particles flow inside**

Parameters	Result
Ambient particles: PM2.5 and PM10	<p>The 601 and 504 ElectroMed can remove over 50% of PM2.5 and PM10 pollutant of the ambient air within 10 minutes inside the 2 100ft.2 room with continuous air particles flow inside. Over 60% within 20 minutes and start to maintain the PM2.5 and PM10 level average from 6x% to 7x%</p> <p>The PM2.5 and PM10 removal rate of the 601 and 504 ElectroMed is average from 6x% to 7x% since the 1st day to the day 90 (1,080 hours) after the machine operated.</p> <p>No significant filtration efficiency for PM2.5 and PM10 drop down after the machine has been operated for 90 days (1,080 hours). The filtration performance can be maintained after 90 days used.</p>

## Consumable cost saving operation

MEDAIR 601 and 504 ElectroMed are designed with FREE of consumable, it let user to use the machine with only One times investment. As a reliable and professional air purifier machine, we can expected we may have the right to use the machine for over 5 years or up to 10 years, then the consumable parts e.g. filter... will be one of our consideration that we may need to continuous invest afterward. Refer from most of the research, most of the high value machine consumable cost may equal to or over 2 – 3 times of the original machine cost when they've used for 5 years, BUT, MEDAIR ElectroMed is FREE!

## Maximum services area operation

Unlike other air purifier claim how large area their machine can serve for or how large their machine air flow rate can provide. MEDAIR air flow rate provide is measured at the machine air outlet, means the air delivery capacity of the machine is always sufficient for the suggested machine service area: 5 ACH can be provided.

## Air pollutant focusing removal operation

As a professional air treatment machine manufacturer, we know that no one machine can suit for all environments that with different air pollutants problem, MEDAIR with most customer can never accept there is an real All-the-best air purifier on market till now. So, the professional design team of MEDAIR provide 4 different model for user: ElectroMed / MediaMed / ChemMed / CarbonMed. User can select the most suitable model for their focusing air pollutants removal purpose. The empower filtration chamber of MEDAIR are specially designed for satisfy different user needs.

## Humanization operation

The advance technology of MEDAIR, the humanization machine programming control let user can set up their machine operation program with their own style and needs. Not only to set the machine On or Off, timer or cleaning reminder, MEDAIR let user can set up max. 4 period of machine operation time frame within a day, PM2.5 real time monitoring with figure indication, accumulated machine operation time check, machine setting memory feature, program holiday - hold and release back the setting etc...

MEDAIR believe that a safety, reliable and efficiency machine is always the choice by user. We will continuous to improve our machine and provide the best air treatment machine for market.

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