

MEDAIR

601 and 504

specification data sheet

MEDAIR  
ElectroMed  
601

MEDAIR  
MediaMed  
601

MEDAIR  
ChemMed  
601

MEDAIR  
CarbonMed  
601

MEDAIR  
ElectroMed  
504

MEDAIR  
MediaMed  
504

MEDAIR  
ChemMed  
504

MEDAIR  
CarbonMed  
504

Specification / Models	601	ElectroMed	MediaMed	ChemMed	CarbonMed
	504	ElectroMed	MediaMed	ChemMed	CarbonMed
Service area available (ft.2) *10	601	700 - 900 ft.2	600 - 800 ft.2	700 - 900 ft.2	600 - 800 ft.2
ft.2 height (1)	504	500 - 600 ft.2	400 - 500 ft.2	500 - 600 ft.2	400 - 500 ft.2
Speed Control: 1,2,3,4,5,Auto (2)	601	YES	YES	YES	YES
	504	YES	YES	YES	YES
Air Flow Rate m3/hr (cfm) (3)	601	S1: 150 (90) / S2: 280 (167) / S3: 390 (227) / S4: 560 (334) / S5: 680 (406)			
Speed 1 – 5 (S1 – S5)	504	S1: 120 (72) / S2: 190 (113) / S3: 290 (173) / S4: 400 (239) / S5: 500 (299)			
Service area with best performance recommend ft.2 (4)	601	S1: < 100 / S2: 280 / S3: 400 / S4: < 580 / S5: < 700			
	504	S1: < 80 / S2: 190 / S3: 290 / S4: < 410 / S5: < 500			
Number of Air Change per hour (ACH) provide	601	5 Air Change per hour in 544 ft.2			
	504	5 Air Change per hour in 400 ft.2			
Machine Fan Motor	601	Patented Extreme Silent DC Induction Bearing Fan			
	504	Patented Extreme Silent DC Induction Bearing Fan			
Auto Mode Speed when determine the air quality is bad	601	Factory setting: Speed 3			
	504	Factory setting: Speed 3			
Remote Controller / Air Monitoring Sensor / Safety Door Lock (5)	601	YES			
	504	YES			
Programming Setting (6)	601	YES. Refer to MEDAIR Programming Operation Manual			
	504	YES. Refer to MEDAIR Programming Operation Manual			
Light Touch LCD Display and Control (7)	601	YES. Light touch with finger tip and LCD display with blue light background			
	504	YES. Light touch with finger tip and LCD display with blue light background			
Machine Cleaning Services Pack (8)	601	YES. Full set for each machine			
	504	YES. Full set for each machine			
Dimension H x W x D (mm)	601	990 H x 425 W x 260 D (mm)			
	504	625 H x 430 W x 260 D (mm)			
Weight (kg)	601	23	23	23	25
	504	15	15	15	16
Noise (dB) (9)	601	S1: < 8 / S2: < 12 / S3: < 28 / S4: < 42 / S5: < 50			
	504	S1: < 7 / S2: < 10 / S3: < 15 / S4: < 28 / S5: < 45			

Electrical Voltage and Power Cord	601	110 - 220V / 50-60 Hz / 1.5 meter length			
	504	110 - 220V / 50-60 Hz / 1.5 meter length			
Power consumption (W) (10)	601	S1: < 12 / S2: < 28 / S3: < 38 / S4: < 50 / S5: < 65			
	504	S1: < 10 / S2: < 25 / S3: < 32 / S4: < 42 / S5: < 50			
<b>Filter Specification / Models</b>	<b>601</b>	<b>ElectroMed</b>	<b>MediaMed</b>	<b>ChemMed</b>	<b>CarbonMed</b>
	<b>504</b>	<b>ElectroMed</b>	<b>MediaMed</b>	<b>ChemMed</b>	<b>CarbonMed</b>
<u>Standard Filtration Process</u>					
Washable Nano-silver	601	YES. Metal constructed Washable and Permanent use			
Antimicrobial Pre-filter (11)	504	YES. Metal constructed Washable and Permanent use			
Photocatalytic TiO2 Filter (12)	601	YES. Metal constructed Honeycomb. Washable and Permanent use			
	504	YES. Metal constructed Honeycomb. Washable and Permanent use			
LED UV Lamp (13)	601	YES. Energy saving and long lifetime LED UV: up to 40,000 hours (5 – 10 Years)			
	504	YES. Energy saving and long lifetime LED UV: up to 40,000 hours (5 – 10 Years)			
Plasma Ion Generation (14)	601	YES. 6 x 10(6)cm3			
	504	YES. 6 x 10(6)cm3			

Different models individual

filtration process

Electrostatic Precepitator remove	601	2 EP Chamber			
0.01 um fine duct particle (EP) (15)	504	1 EP Chamber			
True HEPA Filter remove 0.3 um	601		2 True HEPA		
fine ducts particle (16)	504		1 True HEPA		
Honeycomb Chemical Catalytic Al.	601			2 Chemical Filter	
Filter (17)	504			1 Chemical Filter	
Honeycomb Activated Carbon	601				2 Carbon Filter
Filter (18)	504				1 Carbon Filter

(Note: The above specification may subject to be changed without previous notice).

**Remarks:**

(1): Although MEDAIR has been tested and propose the service for customer, the service area in table are suggested for reference only, for different air pollutant level and number of occupants in the environment, we should take in count and evaluate the actual situation.

(2): For Auto Mode, the machine fan will speed up automatically when the air sensor define the air pollutant level is high. MEDAIR machine's sensor is designed base on the chemical gas "TVOC" and particle level "PM2.5".

(3): Unlike other products on market. MEDAIR fan speed in table is provided base on the machine air outlet (actual clean air delivery into room). Over 95% products on market is provide base on machine without filter installed inside, most of their actual clean air delivery may drop down over 30% to 50% of the air flow rate they provided when after filter installed. Actual clean air delivery decrease means actual service area will become smaller.

(4): Machine best service area are recommended base on the machine can provide around 5 number of air change per hour (ACH). 5 number of ACH of air purifier can compensate most of the standard (HVAC) system design recommend from 3 – 5 ACH of indoor air.

(5): Safety Door Lock: Which design can make sure the machine cover must tight up with machine body before normal operation, then user can never touch or contact with any parts inside the machine e.g. filtration chamber and fan to prevent accident.

(6): User friendly and Humanization machine programming are designed by MEDAIR. User can easy to set up her own program style. Detail Programming Guide teach us how to set up within few minutes.

(7): The most advance and style design on market. Light touch with your finger tip with the large LCD display and control panel.

(8): User can easy clean up the machine filtration chamber and also the sensor head with MEDAIR Service Pack. Most of other machine sensor head can never be clean up by user, most of their machine sensor become dirt after used period of time, then the machine may always speed up at high level. MEDAIR Service Pack is specially design for all MEDAIR machine for cleaning purpose.

(9): Most other machine on market claimed their machine with "Sleep Mode" but never tell us how the noise can lower to. The extreme silent motor design of MEDAIR, the noise level can down to 8dB but still can provide 150 m<sup>3</sup>/h clean air delivery or with 5 number of ACH in 100 ft.<sup>2</sup> room. We can not hear anything inside our bedroom at mid night when using MEDAIR.

(10): With the patented energy saving DC Induction motor design, it make 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. For example in Hong Kong: operate the machine 24 hours a day, we just need HK\$0.24 to HK\$1.5 per day.

(11), (12), (13), (14): For all 601 and 504 series including ElectroMed, MediaMed, ChemMed and CarbonMed, the washable antimicrobial pre-filter, photocatalytic filter (PCO), LED UV lamp and plasma Ion generator has been design in all machine. User can also select to turn on / off the UV Lamp or plasma ion generator. The washable pre-filter and photocatalytic filter area metal constructed and permanent use, the LED UV and plasma ion generator are available for over 5 – 10 years, or may be say nearly permanent.

(15): MEDAIR ElectroMed: Electrostatic Precepitator (EP) has been proof can effective to remove 0.01 um fine dust particle including smoke and virus. EP has been widely used in worldwide for smoke removal purpose mainly e.g. kitchen smoke and cigarette smoke. At the same time, most common virus size is smaller than 0.3 um to 0.1um, then traditional HEPA filter can not effective to filter out of them. But EP can easy to attract the Virus and kill them immediately by such high voltage feature 6,000V – 9,000V, all bacteria and virus will be killed immediately by "Carbonize", similar to "BBQ" effect. So we can also easy to find out EP designed in common hospital's HVAC system. Such MEDAIR EP Chamber is designed for permanent use, user just need to clean up the chamber regularly, then the chamber become back to provide their optimum performance as like as new one, the stainless steel chamber construct material with no decay and never depreciate.

(16): MEDAIR MediaMed: PM2.5 (2.5 um) and PM10 (10 um) fine dust particles are one of the most harmful IAQ pollutant, which is harmful our health that worldwide has been proof with many research. Not only the powerful EP chamber can effective to solve the PM2.5 and PM10 pollutant problem, HEPA filter are commonly used on market to remove that air pollutant parameter. MEDAIR True HEPA is one of the choice for user to focus on such air pollutant that user do not want to carry out regular cleaning works. At the same time True HEPA are also proof effective to remove airborne bacteria in air, so HEPA filter has been designed as a MUST for all hospital's HVAC system in worldwide. MediaMed True HEPA Filter are recommended replace every 1 – 1.5 years (12 hours / day). Note: Actual replacement period will be depends on the actual environment situation e.g. pollutant level and accumulated time of use etc... (Remarks: All recognized HEPA filter material in worldwide are can not be washed, so please replace your HEPA on time).

(17): MEDAIR ChemMed: Such advance technology design, MEDAIR honeycomb chemical filter can effective to remove most common indoor toxic chemical gas e.g. TVOC and HCHO etc... after decoration works. With the honeycomb shape metal filter construct, which will decrease just a little bit of the machine clean air delivery capacity into the environment, it make the machine can effective to apply in a large service area. With the chemical (Catalytic) feature, all the toxic chemical gas will be oxidized to become H<sub>2</sub>O and CO<sub>2</sub> etc.. harmless compounds for human, bad odor molecule will be oxidized and breakdown become odorless. Being of the catalytic material is function by oxidizing, which will make the chemical material to provide a longer functioning time for use. ChemMed is recommended for user who need a long time functioning for chemical gas and bad odor removal purpose. ChemMed Honeycomb Chemical Filter should be replaced every 1 – 2 years (12 hours / day). Note: Actual replacement period will be depends on the actual environment situation e.g. pollutant level and accumulated time of use etc...

(18): MEDAIR CarbonMed: With heavy grade honeycomb activated carbon material as the chamber material. Carbon material is the most common way to effectively remove bad odor and toxic chemical gas in worldwide. Honeycomb shape constructed of MEDAIR Carbon Filter can decrease the pressure drop for the fan and let the machine can be applied into a large area. Honeycomb shape filter is also can increase the surface contact area with pollutant air, it make the filter can provide better "One Pass Filtration Efficiency", faster to purify the area. All carbon material is theory by "Absorption", which is the most effective way that are commonly design into different commercial and industrial HVAC system. The most traditional but also as the most effective material on market till now. CarbonMed is recommended for user who need a fast functioning for strong chemical gas and strong bad odor removal purpose. CarbonMed Honeycomb Carbon Filter should be replaced every 0.5 – 1 year (12 hours / day). Note: Actual replacement period will be depends on the actual environment situation e.g. pollutant level and accumulated time of use etc...

