



化学滤网系列 Chemical Air Filters

填充式颗粒活性碳滤网 (AR502)

标准尺寸厚度1吋、2吋，外框材质可选用不锈钢框、烤漆框。将化学过滤药材颗粒填充于1~2吋滤网框架中，让气流通过药材层时，可大量吸附化学物质。可处理有机挥发物、酸性空气、碱性空气、硫化物…等危害物质。适用在高浓度或风速较低之场所。

Tray Type Activated Carbon Air Filter (Cat. #AR 502)

Activated carbon filled in 1 to 3 inch deep filter tray with rubber or metal housing. Activated carbon can effectively remove chemicals from air, including organic volatile chemicals, acid chemicals, alkaline chemicals, sulfide substances or any hazardous materials. This product is specially suitable for area with high concentration of hazardous suspension in air and high air speed.



Cat.No: AR502

填充式颗粒活性碳滤网

Tray Type Activated Carbon Filter

- 特色：**将较大颗粒状的活性碳填入滤网框架中，针对不同的化学气体，可选用不同的滤材型式，以达到最好的处理效果。设计之放置外箱与一般滤网箱类似，除了其具有一连串的轨道，外框于垂直向成V型排列。前端2吋以折叠型初级滤网保护。此类滤网因吸附剂的含量高、粒径大，需要较长的滞留时间以充份利用吸附剂，吸附容量大，但因压损也较大，所以较适用于高浓度低风速的场所。
- 外框：**框材可选用镀锌铁框、冷轧钢黑色烤漆、喷环氧树脂或不锈钢框。

- Features:**

Larger granular activated carbon filled filter frame, for different chemicals, can choose a different filter types (media type), to achieve the best treatment effect. Designed to place the filter box is similar to the housing of air filters, except it is with a series of orbit into the frame in the vertical V-arranged. It is also structure included a 2 inches deep W-Pre Disposable Pleated Filter to provide some protection from contamination.

Such filters because of high levels of adsorbent, particle size large, require a longer residence time in order to take full advantage of adsorbent, adsorption capacity, but pressure loss (pressure drop) is also larger, so more suitable for high concentration low wind speed sites

- Tray:**

Standard tray is in Cold Rolled Steel Painted Black finish; Galvanized Steel, Stainless Steel or Epoxy Coated tray is also available for option.

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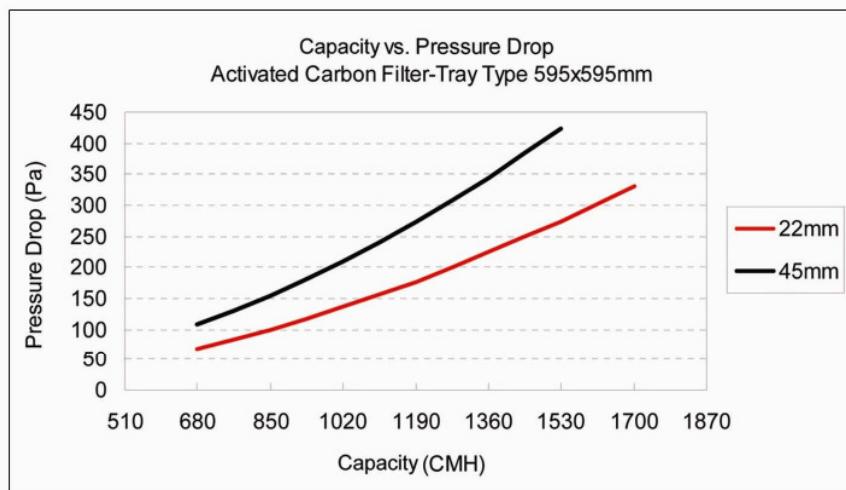
· 滤材(Media):

滤材种类 Media Type	滤材说明 Media Description
MM-1000	由活性铝与过锰酸钾混合而成。活性铝可吸附与吸着水分与臭味。例如与硫化氢反应后，所产生之硫酸钾、氢氧化钾与氧化锰为固体仍于颗粒内。 Composed of Activated Aluminum (Al_2O_3) and potassium permanganate (KMnO_4). The activated aluminum will absorb moisture and odor. For example, $\text{H}_2\text{S} + \text{KMnO}_4 + \text{H}_2\text{O} \rightarrow \text{K}_2\text{SO}_4 + \text{KOH} + \text{MnO}_2 + \text{H}_2\text{O}$. K_2SO_4 , KOH and MnO_2 are solids and exist in pallet.
MM-3000	为一种活性碳，物理性吸附移除气体分子。活性碳使用于多种污染物且对多种起体具有高亲和性。 MM-3000 consists of activated carbon, physical adsorption removes the gas molecules. Activated Carbon is used for removing most of contaminants and with higher affinity to specific gases.
MM-7000	为磷酸注入活性碳里，增强对碱性分子污染物的效率。当吸附后产生化学反应中和污染物。 Composed of activated carbon and phosphoric acid. To enhance the efficiency of removing basic molecular contaminants. After adsorb, the contaminant will be neutralized due to chemical reaction.
MM-9000	为氢氧化钾注入活性碳里，增强对酸性分子污染物的效率。当吸附后产生化学反应中和污染物。 Composed of activate carbon and potassium hydroxide. To enhance the efficiency of removing acid molecules contaminants. After adsorb, the contaminant will be neutralized due to chemical reaction.

执行变量 Performance Parameter	植入性滤网 Carbon Slurry Coated Type Activated Carbon Filter	填充式滤网 Tray Type Activated Carbon Filter	蜂巢式滤网 Honey-Comb Type Activated Carbon Filter	包覆式滤网 Carbon Loaded Web Type Activated Carbon Filter
低压损 Low Pressure Drop	+	+ or -	+ or -	+
活性碳重量 Weight of Activated Carbon	-	++	++	+++
最理想的活性碳尺寸 Optimal Activated Carbon Size	+	-	+	++++
整体吸附效率 Overall Adsorption Efficiency	---	+	+	+++
低灰尘 Low Dust	+	--	-	++
压折能力 Pleated Ability	+	N/A	N/A	++++
更换简易 Easy of Replacement	+	--	+	+

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风量关系曲线图



活性碳滤网性能表 Activated Carbon Filter Performance Data

通称尺寸 Nominal Size (W*H*D) (inch)	实际尺寸 Actual Size (W*H*D) (mm)	额定风量 Rated Capacity (CMH)	初压损 Initial Resistance (Pa)	去除效率 Remove Efficiency (%)	
12*24*1	289*595*22	170	62	依现场条件而定 Depending on field condition	
24*24*1	595*595*22	340			
12*24*2	289*595*45	170	75		
24*24*2	595*595*45	340			

* Special Sizes are available upon request.

※特殊规格可生产制造。

化学滤网系列 Chemical Air Filters

专营空气净化及无尘室设备服务

Services of Filters for Cleanroom and HVAC System

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材质和使用条件 Material and Service Conditions

气体种类 Gas Type	滤材 Media			
	MM-1000	MM-3000	MM-7000	MM-9000
活性碳 Activated Carbon	6%过锰酸钾 + 氧化铝 6% Potassium Permanganate + Aluminum Oxide	10%磷酸 + 活性炭 10% Phosphoric Acid + Activated Carbon	5-10%氢氧化钾 + 活性炭 5-10% Potassium Hydroxide + Activated Carbon	
(挥发性有机物) VOC	8	2		6
(臭氧) Ozone	10	2		10
(二氧化氮) Nitrogen Dioxide	6	4		9
(硝酸) Nitric Acid	6	6		9
酸 / 腐蚀性气体 (氯化氢,氟化氢,氯) Acid / Corrosive(HCl, HF, Chlorine)	0	0		8
碱 / 腐蚀性气体 (氨,胺类) Base / Corrosive (Ammonia, Amines)	0	0	9	0
臭味 / 腐蚀性气体 (硫化氢) Odor / Corrosive Gas (H2S)	1	8	2	10
臭味 / 腐蚀性气体 (二氧化硫) Odor / Corrosive Gas (SO2)	7	8	2	9
臭味 / 腐蚀性气体 (有机硫) Odor / Corrosive Gas (Organic Sulfur)	5	8		9

* Special Sizes are available upon request.
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型式 Type	说明 Description			
滤材 Media	MM-1000	MM-3000	MM-7000	MM-9000
成份 Components	活性碳 Activated Carbon	6%过锰酸钾 + 氧化铝 6% Potassium Permanganate + Aluminum Oxide	10%磷酸 + 活性炭 10% Phosphoric Acid + Activated Carbon	5~10%氢氧化钾 + 活性炭 5~10% Potassium Hydroxide + Activated Carbon
含水率 Moisture Content(%)	15	2	15	15
压碎测试 Crushing Test (%)	32	-	-	-
硬度 Hardness (%)	-	95	95	95
颗粒大小 Particle Size (mm)	3.5	3	4	3
表面积 Surface Area(m ² /g)	250	1000	1000	1000
粒型 Particle Type	球状颗粒 Spherical Particles	颗粒 Particles	颗粒 Particles	颗粒 Particles
密度 Density (lb/ft ³)	50	30	50	35
容量 Volume (ml)	0.1g(H2S/CC)	-	0.05g(NH3/CC)	0.15g(H2S/CC)
四氯化碳 Carbon Tetrachloride (%)	-	60	60	60
外框材质 Frame Material	冷轧钢黑色烤漆 Cold rolled steel painted black	金属框 Metal Frame	喷环氧树脂 Epoxy Coated	