

化学滤网系列 Chemical Air Filters

蜂巢式颗粒活性炭滤网 (AR503)

标准尺寸厚度1吋、2吋，外框材质可选用纸框、金属框。气流由滤材建构的蜂巢通道通过，增加接触表面积，所以压损较低，适用于低污染浓度的条件。

Honey-Comb Type Activated Carbon Air Filter (cat. #AR 503)

Filter media is in Honey-comb shape; this will ensure maximum contact area with the filter when air flowing thru the hexagonal passage, thus reduce the pressure resistance (pressure drop). This filter is suitable for less polluted area.



蜂巢式颗粒活性炭滤网

Honey-Comb Type Activated Carbon Air Filter

• 特色：通常是将纸状的滤材制作成六角蜂巢状或瓦楞蜂巢。气流并未穿透滤网材料其中，而是通过由滤材建构蜂巢通道。高浓度下污染物容易贯穿，可增加蜂巢结构的厚度即通道长度或孔洞大小来克服。蜂巢结构降低压损增加接触表面积及利用当污染浓度低时主要发挥吸附效率的是吸附剂较外层的孔洞表面积。优点为压损低，适用于低污染浓度的条件。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。

• 外框：框材可选用纸框、镀锌铁框或不锈钢框。

• Features:

Filter media is in Honey-comb shape; this will ensure maximum contact area with the filter when air flowing thru the hexagonal passage, thus reduce the pressure resistance (pressure drop). This filter is suitable for less polluted area.

• Tray:

Paper Frame, Galvanized Steel Frame and Stainless Steel frame are available.



AIRREX

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· 滤材(Media):

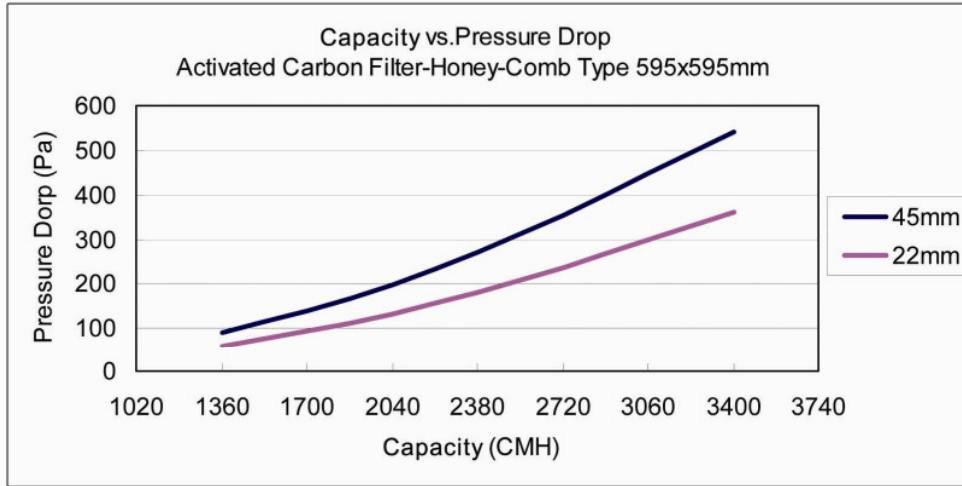
滤材种类 Media Type	滤材说明 Media Description
MM-1000	由活性铝与过锰酸钾混合而成。活性铝可吸附与吸着水分与臭味。例如与硫化氢反应后，所产生之硫酸钾、氢氧化钾与氧化锰为固体仍于颗粒内。 Composed of Activated Aluminum (Al ₂ O ₃) and potassium permanganate (KMnO ₄). The activated aluminum will absorb moisture and odor. For example, H ₂ S+KMnO ₄ + H ₂ O→ K ₂ SO ₄ + KOH+ MnO ₂ +H ₂ O. K ₂ SO 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 -	+
活性炭重量 Weight of Activated Carbon	-	++	++	+++
最理想的活性炭尺寸 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



活性炭滤网性能表 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	1530	299	依现场条件而定 Depending on field condition
24*24*1	595*595*22	3060		
12*24*2	289*595*45	1530	423	
24*24*2	595*595*45	3060		

* Special Sizes are available upon request.
※特殊规格可生产制造。



专营空气滤网及无尘室设备服务
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
	活性炭 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
硷 / 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.
※特殊规格可生产制造。

型式 Type	说明 Description			
滤材 Media	MM-1000	MM-3000	MM-7000	MM-9000
成份 Components	活性炭 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 (m2/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/ft3)	50	30	50	35
容量 Volume (min)	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