



# 蜂巢式顆粒活性炭濾網

## Honey-Comb Type Activated Carbon Air Filter

### 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.

### 特色：

通常是將紙狀的濾材製作成六角蜂巢狀或瓦楞蜂巢。氣流並未穿透濾網材料其中，而是通過由濾材建構蜂巢通道。高濃度下污染物容易貫穿，可增加蜂巢結構的厚度即通道長度或孔洞大小來克服。蜂巢結構降低壓損增加接觸表面積及利用當污染濃度低時主要發揮吸附效率的是吸附劑較外層的孔洞表面積。優點為壓損低，適用於低污染濃度的條件。針對不同的化學氣體，可選用不同的濾材型式，以達到最好的處理效果。

### Media

#### 濾材：

Media Type 濾材種類	Media Description 濾材說明
MM-1000	Composed of Activated Aluminum (Al <sub>2</sub> O <sub>3</sub> ) and potassium permanganate (KMnO <sub>4</sub> ). The activated aluminum will absorb moisture and odor. For example, H <sub>2</sub> S+KMnO <sub>4</sub> + H <sub>2</sub> O→ K <sub>2</sub> SO <sub>4</sub> + KOH+ MnO <sub>2</sub> +H <sub>2</sub> O.K <sub>2</sub> SO <sub>4</sub> , KOH and MnO <sub>2</sub> are solids and exist in pallet. 由活性鋁與過錳酸鉀混合而成。活性鋁可吸附與吸著水份與臭味。例如與硫化氫反應後，所產生之硫酸鉀、氫氧化鉀與氧化錳為固體仍於顆粒內。
MM-3000	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. 為一種活性碳，物理性吸附移除氣體分子。活性碳使用於多種污染物且對多種起體具有高親和性。
MM-7000	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. 為磷酸注入活性碳裡，增強對鹼性分子污染物的效率。當吸附後產生化學反應中和污染物。
MM-9000	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. 為氫氧化鉀注入活性碳裡，增強對酸性分子污染物的效率。當吸附後產生化學反應中和污染物。

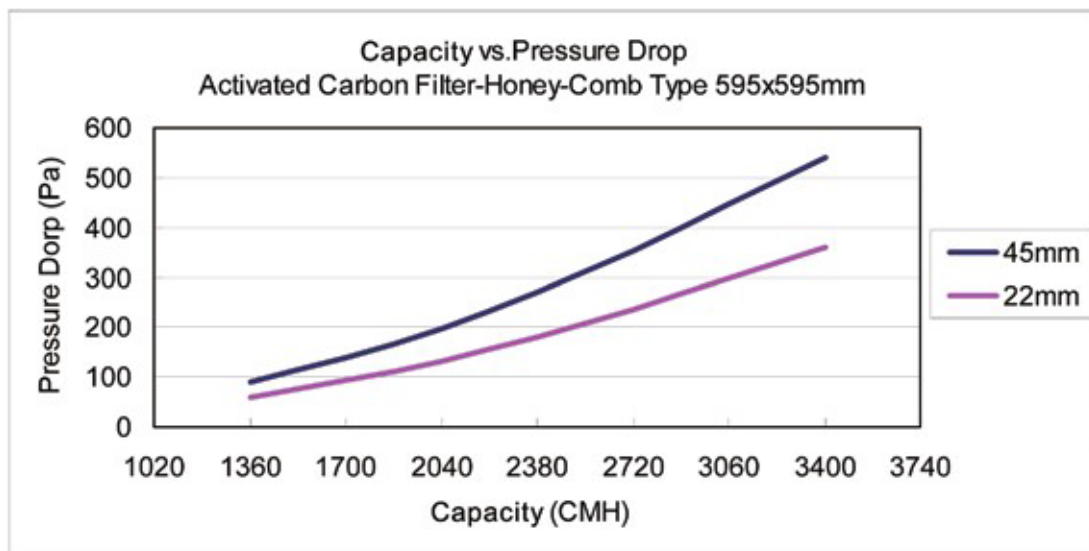
**Frame:**

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

**外框：**

框材可選用紙框、鍍鋅鐵框或不銹鋼框。

Performance Parameter 執行變數	Carbon Slurry Coated Type Activated Carbon Filter 植入性濾網	Tray Type Activated Carbon Filter 填充式濾網	Honey-Comb Type Activated Carbon Filter 蜂巢式濾網	Carbon Loaded Web Type Activated Carbon Filter 包覆式濾網
Low Pressure Drop 低壓損	+	+ or -	+ or -	+
Weight of Activated Carbon 活性炭重量	-	++	++	+++
Optimal Activated Carbon Size 最理想的活性炭尺寸	+	-	+	++++
Overall Adsorption Efficiency 整體吸附效率	---	+	+	+++
Low Dust 低灰塵	+	--	-	++
Pleated Ability 壓褶能力	+	N/A	N/A	++++
Easy of Replacement 更換簡易	+	--	+	+





## Activated Carbon Filter Performance Data- Honey-Comb Type

### 活性炭濾網性能表-蜂巢式顆粒活性炭濾網

Nominal Size 通稱尺寸 (W*H*D) (inch)	Actual Size 實際尺寸 (W*H*D) (mm)	Rated Capacity 額定風量 (CMH)	Initial Resistance 初壓損 (Pa)	Remove Efficiency 去除效率 (%)
12*24*1	289*595*22	1530	299	Depending on field condition 依現場條件而定
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.

※特殊規格可生產製造。

#### Material and Service Conditions

材質、使用條件

Gas Type 氣體種類	Media 濾材			
	MM-1000	MM-3000	MM-7000	MM-9000
	6% Potassium Permanganate + Aluminum Oxide 6%過錳酸鉀 + 氧化鋁	Activated Carbon 活性炭	10% Phosphoric Acid + Activated Carbon 10%磷酸 + 活性炭	5-10% Potassium Hydroxide + Activated Carbon 5-10%氫氧化鉀 + 活性炭
VOC (揮發性有機物)	2	8		6
Ozone (臭氧)	2	10		10
Nitrogen Dioxide (二氧化氮)	4	6		9
Nitric Acid (硝酸)	6	6		9
Acid / Corrosive (HCL, HF, Chlorine) 酸 / 腐蝕性氣體 (氯化氫, 氟化氫, 氯)	0	0		8
Base / Corrosive (Ammonia, Amines) 鹼 / 腐蝕性氣體 (氨, 胺類)	0	0	9	0
Odor / Corrosive Gas (H2S) 臭味 / 腐蝕性氣體 (硫化氫)	8	1	2	10
Odor / Corrosive Gas (SO2) 臭味 / 腐蝕性氣體 (二氧化硫)	8	7	2	9
Odor / Corrosive Gas (Organic Sulfur) 臭味 / 腐蝕性氣體 (有機硫)	8	5		9



## Material and Service Conditions

材質、使用條件

Type 型式	Description 說明			
Media 濾材	MM-1000	MM-3000	MM-7000	MM-9000
Components 成份	6% Potassium Permanganate + Aluminum Oxide 6%過錳酸鉀 + 氧化鋁	Activated Carbon 活性碳	10% Phosphoric Acid + Activated Carbon 10%磷酸 + 活性碳	5~10%Potassium Hydroxide + Activated Carbon 5~10%氫氧化鉀 + 活性碳
Moisture Content (%) 含水率	15	2	15	15
Crushing Test (%) 壓碎測試	32	-	-	-
Hardness (%) 硬度	-	95	95	95
Particle Size (mm) 顆粒大小	3.5	3	4	3
Surface Area(m2/g) 表面積	250	1000	1000	1000
Particle Type 粒型	Spherical Particles 球狀顆粒	Particles 顆粒	Particles 顆粒	Particles 顆粒
Density (lb/ft3) 密度	50	30	50	35
Volume (min) 容量	0.1g ( H2S/CC )	-	0.05g ( NH3/CC )	0.15g ( H2S/CC )
Carbon Tetrachloride (%) 四氯化碳	-	60	60	60
Frame Material 外框材質	Cold rolled steel painted black 冷軋鋼黑色烤漆	Metal Frame 金屬框	Epoxy Coated 噴環氧樹脂	



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