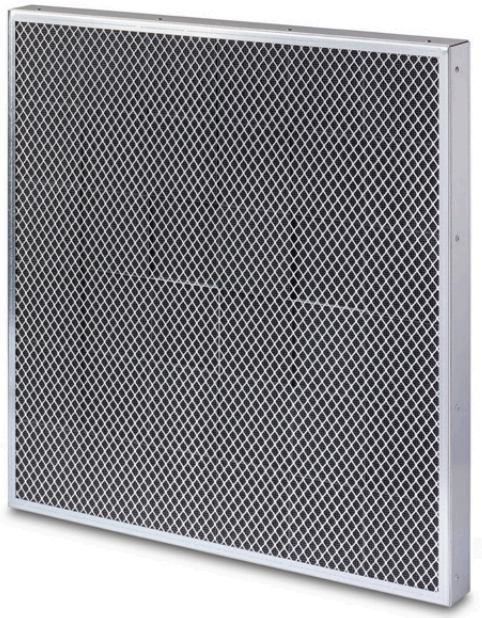
Activated Carbon Honeycombs

Leadership in Filtration

MANN+HUMMEL

Activated Carbon Honeycombs



Activated carbon filters that combine excellent capacity and pressure drop performance with thermal regeneration.

INTRODUCTION

MANN+HUMMEL Honeycombs are activated carbon filters for the removal of molecules and gaseous contaminants – such as VOCs, odors, ozone, NO_x and more.

The Honeycombs' activated carbon powder offers a very large surface area to adsorb contaminants by a physisorption process.

DESIGN

Honeycombs are monolithic materials with a high plurality of parallel square channels in different sizes.

Honeycombs can be provided in different geometric shapes, such as square, rectangular or circular.

The honeycomb, a homogeneous and porous material, facilitates the entry of molecules into the activated carbon pore system without resistance, thereby optimizing performance.

APPLICATIONS

Combining high performance with compact space requirements – along with their overall geometry – make rectangular Honeycombs the perfect alternative to pleated activated carbon filters. Round honeycombs also leverage their advantages in many applications.

The excellent capacity-to-pressure-drop ratio also make Honeycombs ideal for recirculation or other pressure-critical applications.

The features that set our Honeycombs apart

SUSTAINABLE, COST-SAVING PERFORMANCE

MANN+HUMMEL Honeycombs are designed to provide extremely low pressure losses and high capacities. This delivers energy-saving performance combined with a long service life – meaning fewer filter changes and lower disposal costs. This is improved even further by thermal regenerability that enables the Honeycombs to be recharged and reused multiple times in several applications.

CONFIGURABLE TO YOUR REQUIREMENTS

Our Honeycombs are available with 40 to 600 cells per square inch (cpsi). The higher the number of cells, the greater the removal efficiency. Whereas a lower number of cells provides lower energy demand. This enables you to select the perfect balance for your system and application.

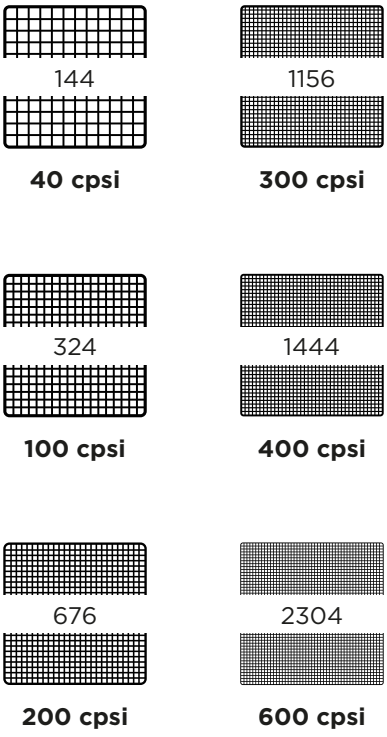
DESIGNED FOR SENSITIVE APPLICATIONS

Honeycombs are free of any binders, adhesives or organic substances, and are ideal for use in applications where dust control is vital. The Honeycombs' optimized flow design delivers an ultra-quiet operation too.

BUILT TO WITHSTAND HARSH ENVIRONMENTS

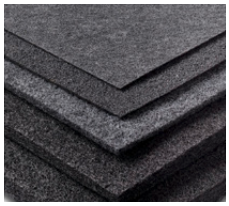
Not only do our Honeycombs feature a high temperature resistance, they are self-extinguishing after flame contact and pass all fire protection tests, including the UL900 standard. MANN+HUMMEL Honeycombs also feature excellent chemical resistance, are water stable and have a high isostatic load capacity.

CELLS PER HONEYCOMB

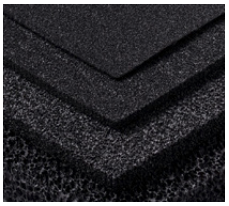


Technology overview

Loose Fill

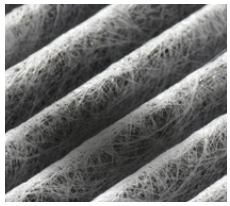


Powdered Carbon Non Woven

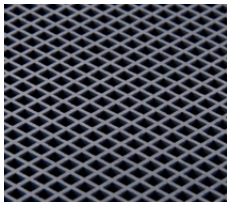


Powdered Carbon Foam

Granulated Carbon Foam

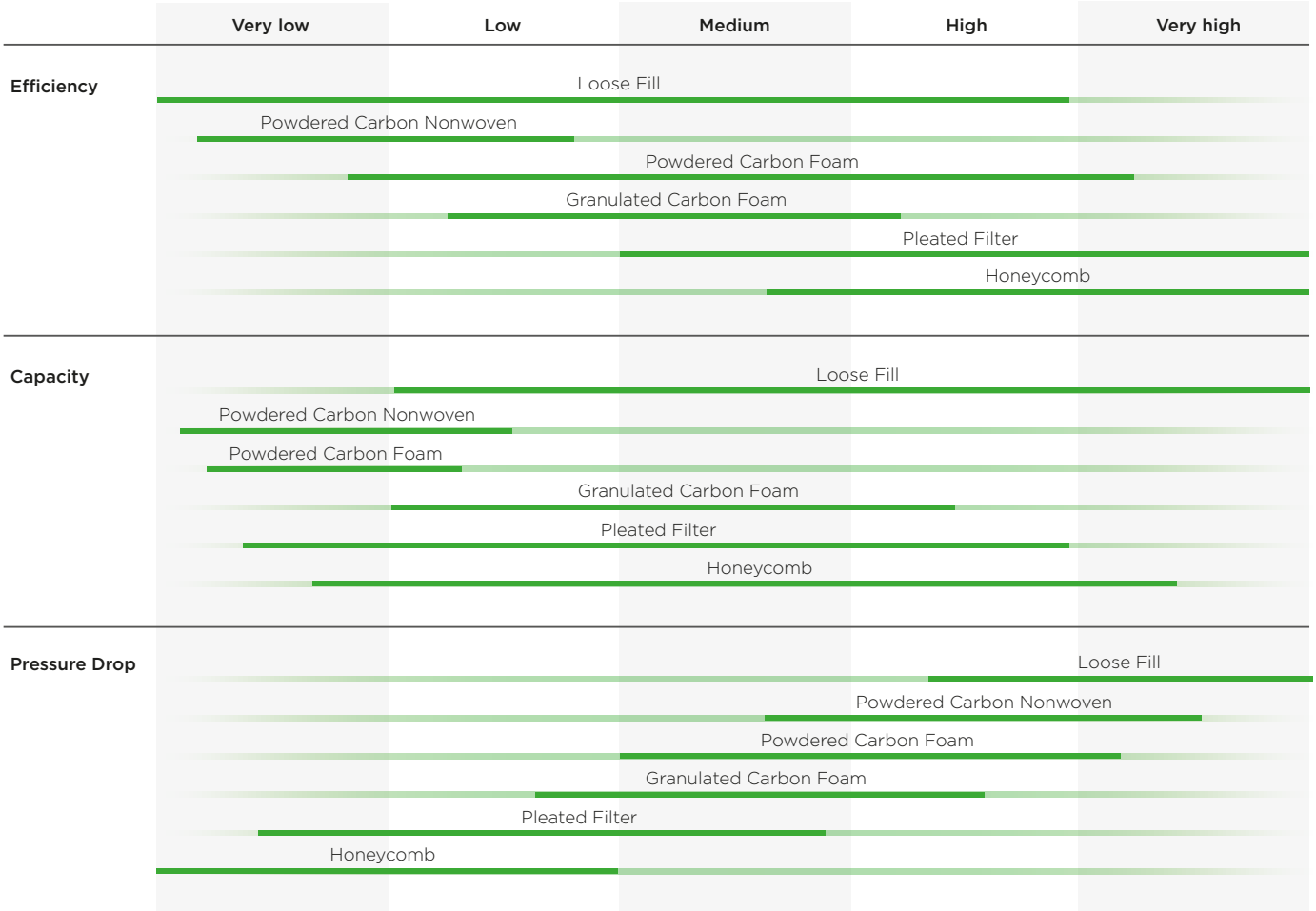


Pleatable Media



Honeycomb

Technology selection guide



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