

PRODUCT INFORMATION

PROSEP
FILTER SYSTEMS

PLEATED PANEL FILTERS G4 - F8



Choice of media efficiencies in range G4—F8

Moisture resistant card frame construction

Non standard sizes available

Standard sizes from stock

Low initial press loss

Radial pleat design

Filter Media

The filter media used in all filters is a high performance, non-woven, reinforced cotton rayon fabric. Media is available in 1", 2" and 4" pleats.

Media is available with an efficiency rating of G4 up to F8 rated to EN779.2002

Media Support

The media support is an 'expanded diamond' grid with 98% open area. The filter media is chemically bonded to the media support filter media to ensure pleat stability throughout the filter.

Pleat Design

The filter employs an exclusive 'radial V' pleat design. This guarantees total usage of filter media, and maximum dust holding capacity. This affords the user a greatly extended service life.

Enclosing Frame

The enclosing frame is constructed of rigid, heavy duty, moisture resistant chipboard. The filter pack is bonded to the inside periphery of air by-pass.

Principle of Filtration

Each filter operates on a strainer type principle, utilising pleats that are shaped and spaced on pre-determined centres. This controlled spacing causes diffusion of air pressures over the pleated surface. Initially the least resistance is in the bottom of the pleat where pollutants are filtered out. A build-up of these contaminants increases the resistance at the bottom of the pleat, and air flow gradually moves up on the side walls of the pleat as the filter becomes loaded.

The larger pollutants in the air stream, because of their velocity and inertia forces, are unable to change direction as the air flow moves up the side walls of the pleat, and these pollutants lodge themselves in the back of the pleat while the finer microscopic particles become trapped on the side walls.

As dirty air angles though the pleat sides, increased media loft (created by particulate layer build-up) is achieved, with the result of better micron efficiency. This is the strainer principle of filtration. The pollutant bed functions as a supplemental filtration medium throughout the filter life.

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