

# PerfectPleat® HC

(High Capacity)



## EXTENDED SURFACE PLEATED PANEL FILTERS

- ISO16890: Coarse 70%
- Highest performing self-supported pleated filter
- Mechanical efficiency - does not rely on electret charge technology
- Consistent media with controlled fiber size and blend
- Available in filter depths of 19 mm, 44 mm and 95 mm
- Environmentally friendly - no dies, no metal, fully incinerable

The PerfectPleat HC filter is designed to consistently increase efficiency throughout the service life of the filter. The PerfectPleat HC filter has approximately 25% more media than our standard capacity filter, and is ideal for applications where pleated filters are currently in use and higher performance is desired. They have an ISO Coarse 70% respectively, but the efficiency increases significantly when dust holding begins. PerfectPleat HC filters have distinctive self-supporting characteristics that allow a pleating pattern, which promotes airflow and maximizes dust holding capacity (DHC). Lower pressure drop and higher DHC means reductions in energy consumption and operating costs.

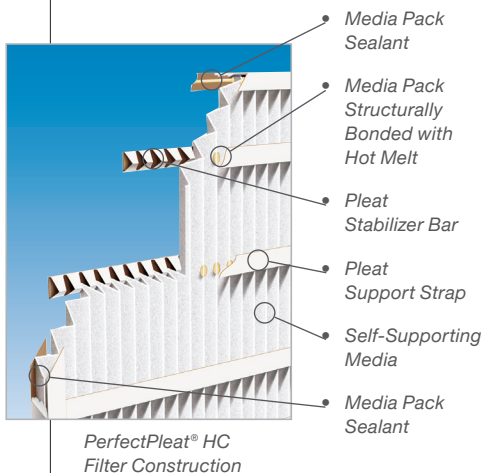
### Superior Design and Construction

The perimeter frame is constructed from the highest wet-strength beverage carrier board, securely bonded to the media pack. The 19 mm model employs three supporting straps on the air entering and air leaving sides of the filter to control pleat spacing and support the media pack in the perimeter frame.

Support straps on the air entering side are used in combination with uniquely designed pleat stabilizers on the air-leaving side of the 44 mm and 95 mm model to provide additional strength. The support straps and pleat stabilizers ensure integrity against turbulent airflow. The 44 mm and 95 mm filter resists crushing and abuse and provides excellent lateral stability for installation in side-access systems.

### Media Design

Uniform size virgin fibers are assembled in closely controlled blends to create a media that is both self-supporting and consistent in performance. When pleated, media will hold its shape without the wire support characteristic of conventional pleated filters. That means no potential for the formation of rust and safer handling. With superior resiliency and no need for wire support, PerfectPleat HC filters can sustain significant abuse and maintain their shape and pleat spacing. The absence of wire also makes the filter totally incinerable, which can simplify disposal.



PerfectPleat® HC Filter Construction

### Configurations

Filter media		Filter Frame	
Media	Synthetic	Material	Cardboard
Optional		Temperature	
Media	Special fibres (Ultra)	Max. operating temperature	65 °C
Gasket	Neoprene (flat gasket)		

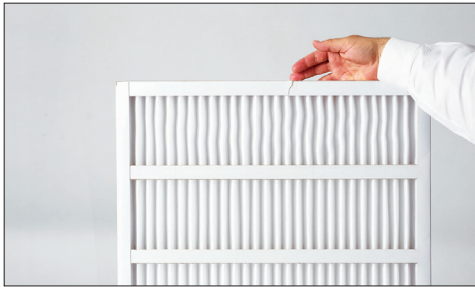
# PerfectPleat® HC Filters



PerfectPleat® air filter with excellent form and fit.



PerfectPleat® can withstand significant damage.



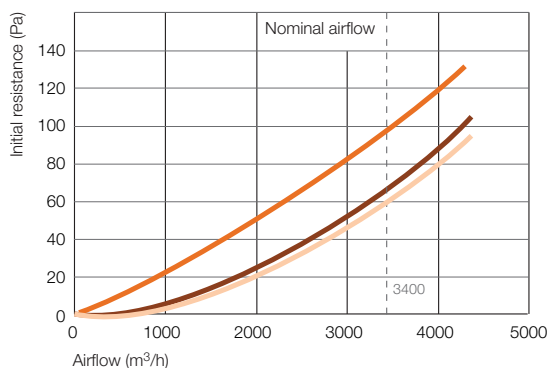
PerfectPleat® memory retains integrity after damage.

## Technical data

Filter name	Dimensions (mm) 592 x 592 x Depth	Filter area (m <sup>2</sup> )	Initial dp (Pa) @ 3400 m <sup>3</sup> /h	Prev. rated EN779:2012	ISO 16890 Classification	Average values		
						ePM1 (%)	ePM2,5 (%)	ePM10 (%)
Perfect Pleat HC	19	0,8	15	G4	Coarse 70%	-	-	-
Perfect Pleat HC	44	1,6	65	G4	Coarse 70%	-	-	-
Perfect Pleat HC	95	2,6	60	G4	Coarse 70%	-	-	-

Further dimensions are available on request. From January 1st 2018 filtration efficiency values are certified according to ISO 16890.

## Performance Coarse 70%



Perfect Pleat HC - Coarse 70% 592x592x95 / Coarse 70% 592x592x19 / Coarse 70% 592x592x44

PerfectPleat® is a registered trademark of AAF International in the U.S. and other countries.



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PA\_208\_EN\_012019