

### DESCRIPTION

The Aerostar SoniQ Pocket filter is constructed with a moisture-resistant, ultrasonically welded media. This synthetic media consists of strategically layered and blended melt-blown polypropylene fibres fastened to a non-shed, high density polypropylene backing. This design creates a dual stage filtration effect with the final layer capturing the smaller particulate from the air stream. The patented ultrasonic welding process allows us to manufacture a product that has no stitch holes in the media and provides a substantial increase in effective surface area.

Vertical separators are incorporated into each pocket to effectively channel air throughout the media to prevent excessive turbulence and allow even contaminant loading over the life of the filter. The header is constructed from 26# galvanised steel with rolled edges to provide rigid support to the filter face and allow for easier handling.

### BENEFITS

The SoniQ pocket filter offers high efficiency filtration while maintaining low resistance to airflow. The non-shed media eliminates fibre migration downstream and the ultrasonic welding provides lower resistance with no disruption to the integrity of the filter. The open face design and the precise pocket spacing produces a product that is aerodynamically balanced and provides excellent all-round performance.

### FEATURES

- High efficiency filtration
- Merv12-14 (F6 - F8)
- 100% non-shed synthetic media.
- Ultrasonic welded seams
- Low initial pressure drop
- Large effective surface area
- Intergrated vertical separators
- Galvanised steel header for rigid support
- Conforms to U.S. and EU fire classification standards (UL 900-class 2)
- U.S. Patents 6159316 and 6258142

### APPLICATIONS

The SoniQ pocket filters are designed as primary or secondary filters in heating, ventilation and air conditioning systems. Superior dust holding capacities allow these filters to be used in most commercial and industrial applications as well as hospitals, automotive plants and biotechnology facilities.

SoniQ pocket filters can be used in most standard built-up filter banks, or side-access filter housing systems.

### SERVICE/MAINTENANCE

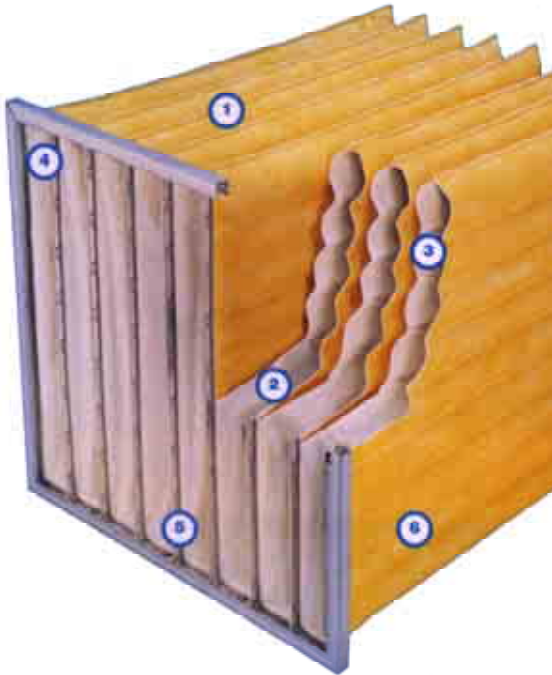
Service and maintenance can also be carried out by our trained service technicians if required (ask our representative about our competitive service/maintenance contracts).

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### SONIQ FILTER CONSTRUCTION



**1 ULTRASONIC WELD.** Provides a superior reduced sealing area for lower initial and overall resistance as well as eliminating the possibility of air bypass.

**2 AERODYNAMIC DESIGN.** Each bag filter pocket is dynamically balanced by design for minimal resistance to airflow and high dust holding capacity.

**3 LONGITUDINAL SEPARATOR STRIPS.** Each pocket of layered media is divided into channels using a proprietary ultrasonically welded design to better withstand high pressures and turbulence

**4 DUAL FASTENING.** Each pocket is individually secured to a support module, which is both mechanically and chemically fastened inside the header frame

**5 SOFT EDGE HEADERS.** Pockets are attached to a soft-edged support frame creating a tight seal without risk of flexing during full inflation.

**6 MEDIA.** Meltblown fibres are more resistant to mishandling and virtually eliminate the possibility of fibre shedding into the air stream.



### SPECIFICATIONS

<b>Filter media:</b>	Synthetic polypropylene
<b>Header:</b>	26# Galvanised steel
<b>Flammability:</b>	UL Class 2
<b>Recommended final resistance:</b>	250 Pa
<b>Max. Temp:</b>	65°C

### FEATURES AND BENEFITS

- **Low Initial Resistance**  
Reduced energy consumption
- **Greater Effective Media Area**  
Longer service life
- **Elimination of Holes in Media**  
Enhanced efficiency
- **Improved Indoor Air Quality**  
Reduced maintenance costs. Greater productivity.

Filter Depth (mm)	Number of Pockets	Airflow Capacity (m <sup>3</sup> /h)	Pressure drop (Pa)		
			95%	85%	65%
915	8	3400	89	85	70
	6	3400	112	102	92
735	8	3400	82	72	65
	6	3400	102	85	77
560	8	3400	89	75	67
	6	3400	122	87	82
380	8	3400	144	104	90
	6	3400	179	129	104
305	8	3400	-	134	97
	6	3400	-	154	112

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