AEROSTAR®

SONIQ POCKET FILTERS
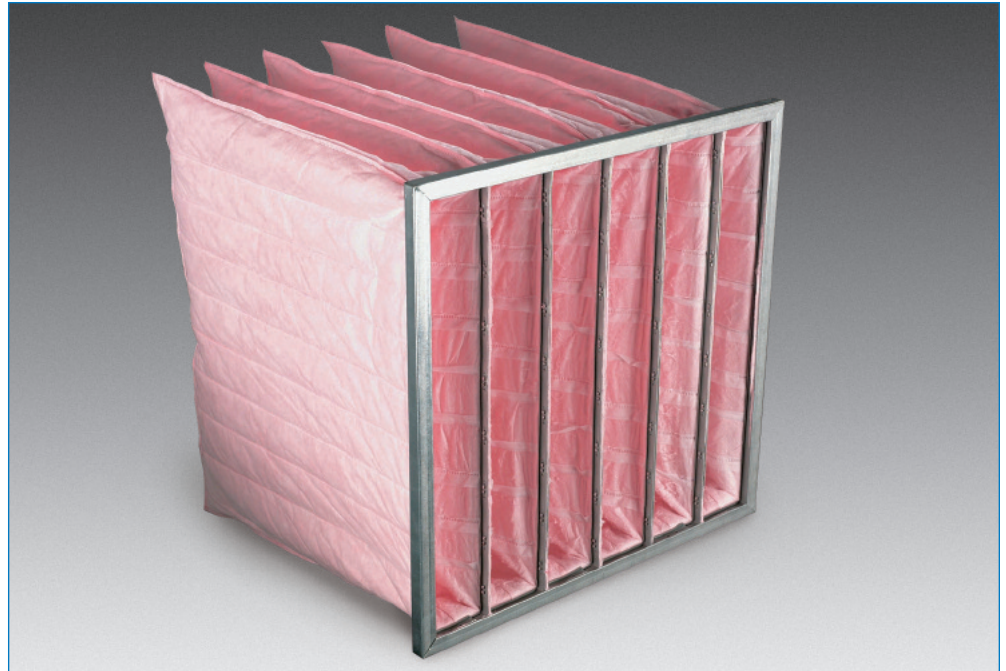

- Medium to High Efficiency per ASHRAE 52.2-2007
- Ultrasonic welding technology
- Open throat design for optimum air flow
- Galvanized steel header and J-channels for filter strength
- Available in a wide range of sizes
- Gasketing available
- Pocket support loops are available
- US Patents 6,159,316 and 6,258,142

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 fibers 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 throughout the life of the filter. The header is constructed of 26 gauge galvanized 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 air flow. The non-shed media eliminates fiber migration downstream and the ultrasonic welding provides lower resistance with no disruption to the integrity of the filter. The open throat design and the precise pocket spacing produces a product that is aerodynamically balanced and provides excellent all-round performance.

APPLICATIONS

The SoniQ Pocket filters are designed as primary or secondary filters in heating, ventilating and air conditioning systems. Superior dust-holding capabilities 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 housing systems.

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DIMENSIONS AND PERFORMANCE DATA

MERV 14 (95%) PART NO.	MERV 13 (85%) PART NO.	MERV 12 (65%) PART NO.	SIZE H x W x D* (INCHES)	NUMBER OF POCKETS	MEDIA AREA (SQ. FT.)
18271	18311	18351	24 x 12 x 12	4	19
18270	18310	18350	20 x 20 x 12	6	27
18269	18309	18349	24 x 20 x 12	6	28
18272	18312	18352	24 x 24 x 12	6	30
18268	18308	18348	24 x 24 x 12	8	38
18279	18319	18359	24 x 12 x 15	4	21
18278	18318	18358	20 x 20 x 15	6	30
18277	18317	18357	24 x 20 x 15	6	31
18280	18320	18360	24 x 24 x 15	6	33
18276	18316	18356	24 x 24 x 15	8	42
18287	18327	18367	24 x 12 x 22	4	31
18286	18326	18366	20 x 20 x 22	6	40
18285	18325	18365	24 x 20 x 22	6	46
18288	18328	18368	24 x 24 x 22	6	48
18284	18324	18364	24 x 24 x 22	8	62
18295	18335	18375	24 x 12 x 29	4	42
18294	18334	18374	20 x 20 x 29	6	54
18293	18333	18373	24 x 20 x 29	6	61
18296	18336	18376	24 x 24 x 29	6	65
18292	18332	18372	24 x 24 x 29	8	84
18303	18343	18383	24 x 12 x 36	4	45
18302	18342	18382	20 x 20 x 36	6	60
18301	18341	18381	24 x 20 x 36	6	72
18304	18344	18384	24 x 24 x 36	6	73
18300	18340	18380	24 x 24 x 36	8	96

* Contact Customer Service for additional sizes and information.

FILTER DEPTH (INCHES)	NUMBER OF POCKETS	AIRFLOW CAPACITY (cfm)	PRESSURE DROP (" w.g.) MERV 14 (95%)	MERV 13 (85%)	MERV 12 (65%)
36	8	2000	0.36	0.34	0.28
	6	2000	0.45	0.41	0.37
29	8	2000	0.33	0.29	0.26
	6	2000	0.41	0.34	0.31
22	8	2000	0.36	0.30	0.27
	6	2000	0.49	0.35	0.33
15	8	2000	0.58	0.42	0.36
	6	2000	0.72	0.52	0.42
12	8	2000	0.80	0.54	0.39
	6	2000	0.98	0.62	0.45

SONIQ ENGINEERING SPECIFICATIONS

1.0 General
1.1 Filters shall be Aerostar SoniQ Pocket air filters as manufactured by Filtration Group, Inc.
1.2 Filters shall be available in 3 efficiency levels with a depth of 3.75".
1.3 Filters shall be UL Classified.
1.4 Manufacturer shall provide documentation from an external certification body that the manufacturing location is ISO 9000 Registered.

2.0 Filter Materials of Construction
2.1 Media shall be 100% synthetic that does not support microbial growth.
2.2 The media shall be sonically bonded by a patented process to form pockets as to not allow for by-pass.
2.3 The pockets shall be attached internally by synthetic bands to reduce vibration and stabilize the filter during its life.
2.4 Media shall be adhered to all frame components to eliminate by-pass and maintain integrity throughout life.
2.5 Frame shall be made fully of 26 ga. Galvanized steel.

3.0 Filter Performance
3.1 Filters shall be available in MERV 11, 13 and 14 when tested in accordance with ASHRAE 52.2-2007 Test Standard.
3.2 MERV 13 version meets LEED regulations.
3.3 Filters shall be rated to withstand a continuous operating temperature of up to 150°F.
3.4 Filters shall have a recommended final resistance of 1.5" w.g.

APPLICATION PARAMETERS

Filter Media: Synthetic Polypropylene
Header: 26 ga. Galvanized Steel
Flammability: UL Classifed
Recommended Final Resistance: 1.0" w.g.
Maximum Temperature: 150° F
Actual Header: 13/16" thickness
Actual Face Size: Nominal less 5/8"
45% Media: Stitched only

Distributed by:

FILTRATION GROUP®

WHEN CLEAN AIR MATTERS
ISO 9000 Registered