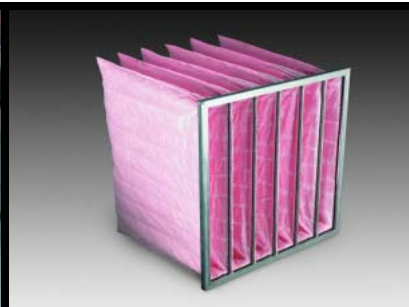




# The SoniQ™ HVAC Pocket Filter

Longer Service Life • Enhanced Efficiency  
Improved IAQ • Better Value



The Ultimate Pocket Filter  
for Any HVAC Application

Commercial Buildings

Hospitals

Healthcare Facilities

Universities & School Districts



**FILTRATION GROUP**

# The SoniQ™

## Why a Pocket Filter?

Extended media pockets, also called bag filters, are the most popular high efficiency air filters in use today. Inflated by a steady airflow, pocket filters offer a large media area for superior dust holding and lower pressure drop.

Pocket filters are effectively used in applications where in-line space is not an issue and high dust holding over extended periods is required. The benefit is improved Indoor Air Quality (IAQ) at YOUR facility!

Pocket filters typically then provide a long service life in HVAC applications. In addition, the service life of the SoniQ filter can be further extended with the use of a pleated pre-filter.

## Why the SoniQ?

### Ultrasonic Weld (No Stitching)

- Eliminates air by-pass created by traditional stitch holes
- Improves efficiency through increased surface area

### Low Initial Resistance

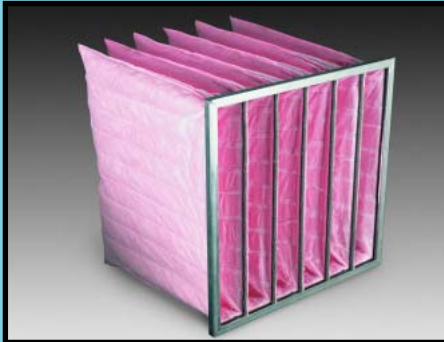
- Reduced energy consumption
- Conserves limited budget money

### Improve IAQ

- Reduced maintenance costs
- Reduced occupant illness

### Improved Media Surface

- Extensive surface area increases filtering capacity
- Long service life



## Perfect for Any HVAC Application

### Commercial

- Large skyscrapers
- Shopping centers/malls
- Hotels and resorts
- Office buildings

### Educational

- Universities/Colleges
- School districts

### Healthcare

- Hospitals
- Nursing homes

### And Many More

- Manufacturing
- Governmental agencies

## IAQ is Important

We are all aware of the benefits of reducing energy consumption. Building operators are re-circulating more air to reduce the energy required to heat or cool the air. This process could result in an increased level of airborne contaminants in your facility.

Source of such contaminants can range from commonly found cleaning agents, building materials, office equipment and construction debris. All of these problems can cause discomfort and illness for building tenants.

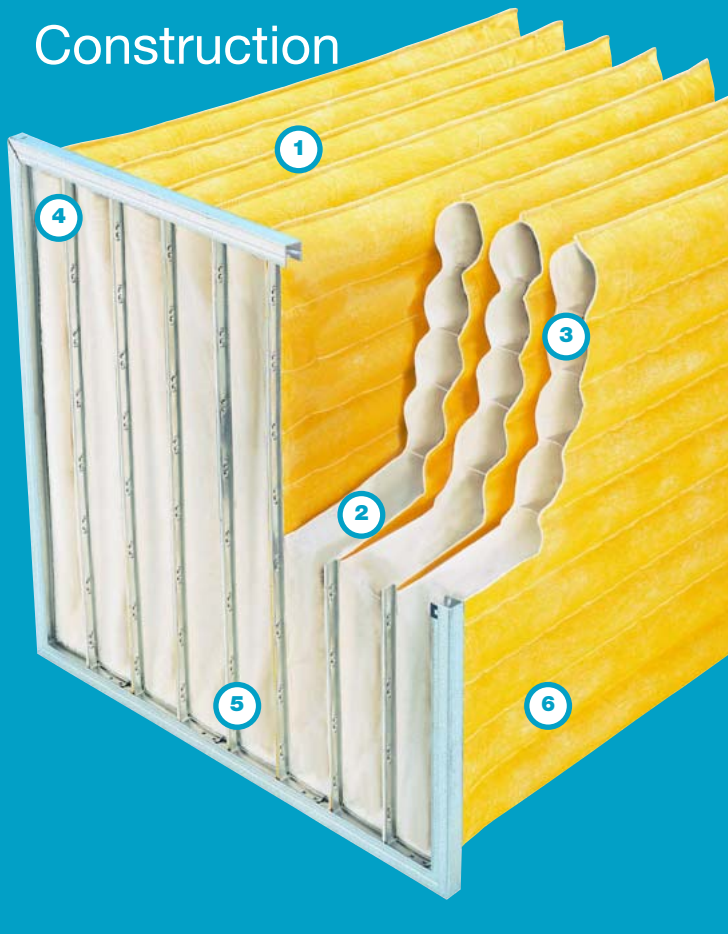
A properly specified, installed and maintained air filtration system will alleviate many IAQ issues.

## SoniQ is the Right Choice

The SoniQ extended media, high performance pocket filter is designed to be used as a primary or secondary filter in most HVAC systems. SoniQ's superior filtration and dust holding capabilities create increased protection for building occupants, computers and other sophisticated equipment. This superior, high level of filtration performance is achieved by the use of our patented ultrasonic welding process, US patents 6,519,316 and 6,258,142 that eliminates stitch holes found in traditional sewn pocket filters.

No stitch holes results in no air by-pass! SoniQ pocket filters also help protect the interior paint, wallpaper, ceiling tiles and wall decorations found in virtually all buildings.

# Construction



## 1 Ultrasonic Weld

Provides a superior reduced sealing area for lower initial and overall resistance, as well as eliminating the possibility of air by-pass.

## 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 ultrasonic 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 J-channel support frame creating a tight seal without risk of flexing during full inflation.

## 6 Media

Meltblown fibers are more resistant to mishandling and virtually eliminate the possibility of fiber shedding into the air stream.

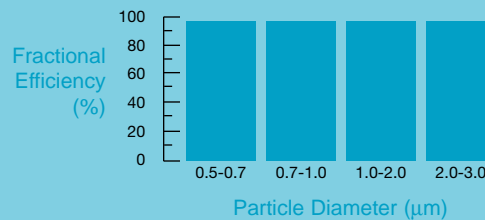
# Performance Data

Test results from eight-pocket, 85 percent, 29 inch filter; results taken at 1.00 inch WG

Filters are tested in accordance with ASHRAE standard 52.1-1992 and ASHRAE standard 52.2-1999 with performance tolerances that conform to ARI standard

Filters are listed Class 1 and Class 2 in accordance with UL 900, CAN 4-5111-M80 and ULC

## Particle Size Efficiency



## Common Airborne Contaminants

Yeast Cells	4	-	15
Molds	2	-	20
Pollen	10	-	100
House Dust	1	-	150
Plant Spores	10	-	42
Bacteria	.35	-	15
Fog	2.5	-	15
Fly-Ash	1	-	150
Tobacco Smoke	.01	-	1

# Extensive Product Line

## Range of Efficiencies

- 65% - MERV 12
- 85% - MERV 13
- 95% - MERV 14

## Many Standard Items

- Range of sizes
- Numerous pocket configurations
- Special sizes available

# The SoniQ Advantage

## Improved Filtration

- No air by-pass
- No fiber shedding

## Reduced Maintenance Costs

- Improved dust holding
- Longer service life

## Better Value

# Specifications

Filter Media	Polypropylene
Header	26 ga Galvanized Steel
Flammability	UL Class 2 UL Class 1 (optional)
Recommended Final Resistance	1.0" w.g.
Maximum Temperature	150° F
Actual Header	13/16" Thickness
Actual Face Size	Nominal less 5/8"

Filter Depth (inches)	Number of Pockets	Airflow Capacity (cfm)	Pressure Drop ("w.g.)		
			95%	85%	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	-	0.54	0.39
	6	2000	-	0.62	0.45

## Dimensions and Performance Data

Part Number					
95% Efficiency MERV 14	85% Efficiency MERV 13	65% Efficiency MERV 12	Nominal Size H x W x D	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

\* Consult customer service for additional sizes and information.



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