



# The SoniQ™ HVAC Pocket Filter

Longer Service Life • Enhanced Efficiency  
Improved IAQ • Better Value



The Ultimate Pocket Filter  
for Any HVAC Application

[Commercial Buildings](#)

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# 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

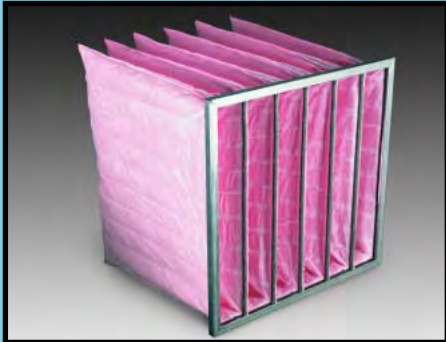
- Reduced energy consumption
- Conserves limited budget money

### 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.

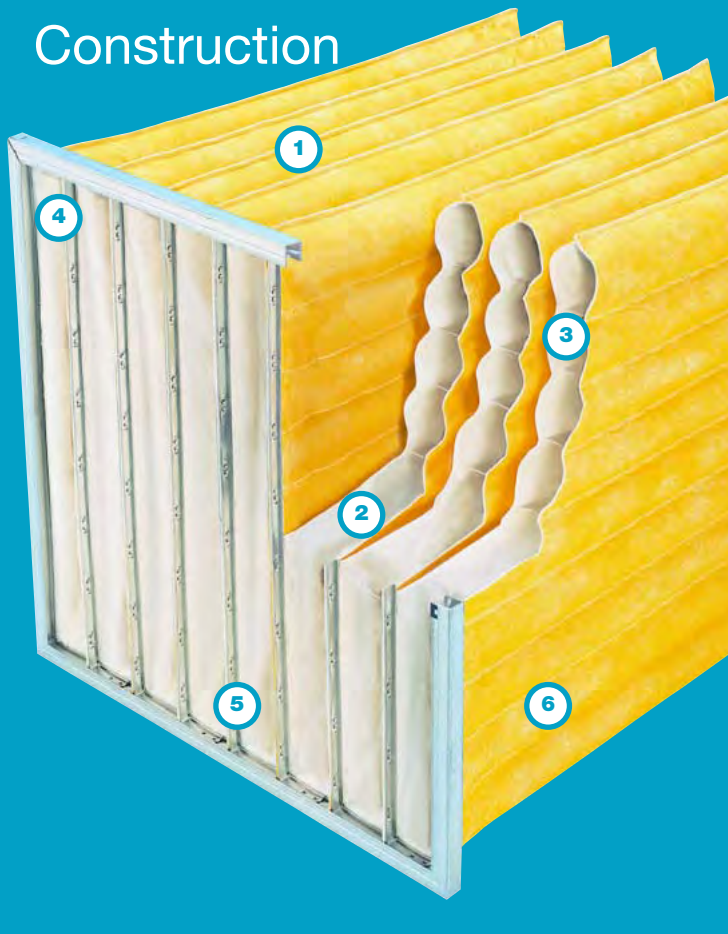
A properly specified, installed and maintained air filtration system will alleviate many IAQ issues.

## 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.

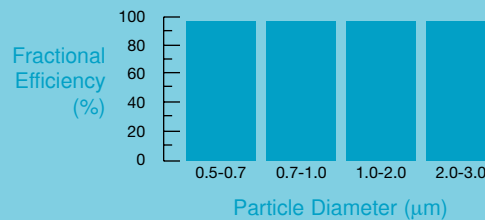
# Performance Data

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<br>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<br>MERV 14 | 85% Efficiency<br>MERV 13 | 65% Efficiency<br>MERV 12 | Nominal Size<br>H x W x D | Number<br>of Pockets | Media Area<br>(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.

Distributed by:



## Florence Filter Corporation

"Over 35 Years of Filter Excellence"

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