



IAQ-99™

Odor Control Filters

Particulate Filter Layer

A layer of polyester media on the upstream side removes dirt and dust from the air stream. This layer not only provides clean air it also prevents the pore structure of the carbon granules from becoming clogged with dirt.

Activated Carbon Layer

The critical component of the filter is a layer of activated carbon granules bonded to a synthetic fiber substrate that removes gases and odors. The unique carbon bonding process prevents settling and minimizes dusting. Only high quality 60% activity carbon is used for maximum odor removal.

Odor control is a function of the amount of carbon exposed to the air stream. The more carbon, the greater the odor removal. No other disposable panel style of odor control filter contains more carbon than IAQ-99 - 300 grams per square foot (2" sizes); 100 grams per square foot (1" sizes).

Final Filter Layer

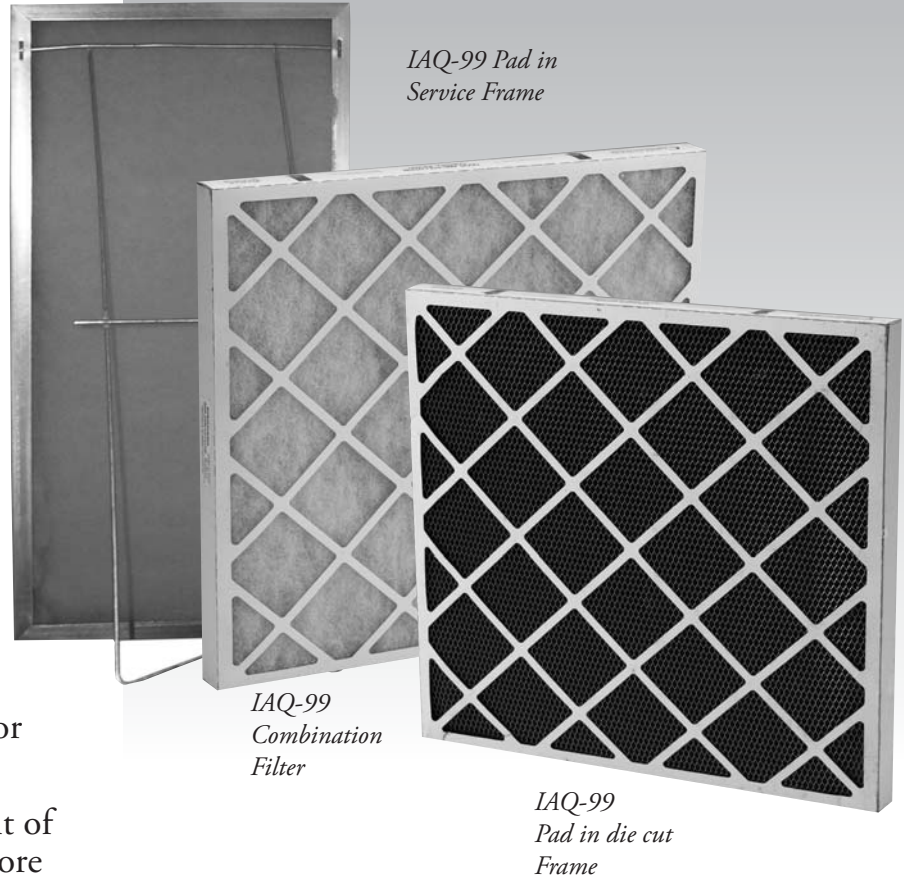
Two inch thick filters have a final filter layer for additional particulate removal and to prevent migration of carbon granules.

Reinforced Construction

The combination filter media layers are contained in a two piece die cut frame made of high wet strength beverage board. The media pack is bonded inside the frame to prevent bypass of contaminated air. For additional structural support and rigidity, an expanded metal grid is inserted behind the media pack in 2" thick filters.

Poly Sealed Packaging

All IAQ-99 filters (combination filters and



Combination Filter - 1" and 2" Thicknesses

IAQ-99 filters perform better and last longer because they contain more carbon.

pads) are individually sealed in a poly bag to prevent adsorption of odors from occurring prior to installation.

Features

- Select from two styles
- Combination particulate media with activated carbon Odor
- Odor control activated carbon only
- Directly interchangeable with standard particulate filters
- Available with beverage board frame or pad style (no frame)

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Maximum Odor Control Protection

Carbon Pads (No Particulate Filter)

IAQ-99 pads consist of a pad of carbon granules bonded to a synthetic fiber substrate. The pad is contained in a fine mesh netting to prevent the granules from spilling.

Both the 1" and 2" thick pads are available with and without a die cut beverage board frame. Pad construction without a frame is designed to be installed in a media pad holding frame such as Airguard's Service frame.

Pads contained in a die cut frame are self-supporting and can be installed in built up frame banks or side access housings in the same manner as disposable panel or pleated filters.

Highest Carbon Content - More Odor Removal

The advantage of IAQ-99 pads over the combination filter models is twice as much carbon content -600 grams per square foot (1" sizes). This style of construction offers maximum odor control protection in a panel style carbon filter. Pad style IAQ-99 filters should always be used with a prefilter.

Standard Sizes

Nominal Size (In.)	Actual Size (In.)	Combination Filter	Pad with Die Cut Frame	Pad Only (No Frame)
10 x 20 x 1	9-1/2 x 19-1/2 x 7/8			X
12 x 20 x 1	11-1/2 x 19-1/2 x 7/8			X
12 x 24 x 1	11-3/8 x 23-3/8 x 7/8	X	X	X
14 x 20 x 1	13-7/8 x 19-7/8 x 7/8			X
14 x 25 x 1	13-7/8 x 24-7/8 x 7/8			X
15 x 20 x 1	14-7/8 x 19-7/8 x 7/8			X
16 x 20 x 1	15-1/2 x 19-1/2 x 7/8	X	X	X
16 x 25 x 1	15-1/2 x 24-1/2 x 7/8	X	X	X
18 x 24 x 1	17-7/8 x 23-7/8 x 7/8	X	X	X
20 x 20 x 1	19-1/2 x 19-1/2 x 7/8	X	X	X
20 x 25 x 1	19-1/2 x 24-1/2 x 7/8	X	X	X
24 x 24 x 1	23-3/8 x 23-3/8 x 7/8	X	X	X
12 x 24 x 2	11-3/8 x 23-3/8 x 1-3/4	X	X	X
15 x 20 x 2	14-7/8 x 19-7/8 x 1-3/4			X
16 x 20 x 2	15-1/2 x 19-1/2 x 1-3/4	X	X	X
16 x 25 x 2	15-1/2 x 24-1/2 x 1-3/4	X	X	X
18 x 24 x 2	17-7/8 x 23-7/8 x 1-3/4	X	X	X
20 x 20 x 2	17-1/2 x 23-1/2 x 1-3/4	X	X	X
20 x 24 x 2	19-3/8 x 23-3/8 x 1-3/4	X	X	X
20 x 25 x 2	19-1/2 x 24-1/2 x 1-3/4	X	X	X
24 x 24 x 2	23-3/8 x 23-3/8 x 1-3/4	X	X	X

Performance Data

Construction	Initial Resistance		Average Arrestance	Carbon Loading (Gms. Per Sq. Ft.)
	@300 FPM	@500FPM		
Combination Filter				
1"	.18"	.42"	80%	100
2"	.31"	.75"	85%	300
Carbon Pad (With/Without Frame)				
1"	.25"	.47"	N/A	300
2"	.54"	N/R	N/A	600

Notes:

- Performance Data:** Based on ASHRAE Test Standard 52.1- 1992. Tolerances conform to ARI Standard 850-93.
- Recommended Final Resistance:** 1" Filters - 1.0" W.G. 2" Filters - 1.2 W.G.
- Activity Rating:** Minimum 60% on carbon tetrachloride (CCl₄) at 25° C.
- Underwriters Laboratories Classification:** U.L. Class 2 per U.L. Standard 900.
- Recommended Temperature Limit:** 120° F (49° C). Operation above 120° F negatively affects the adsorption process.

A-IAQ99 -708



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