

ALUMINIUM EXPANDED WASHABLE FILTERS MODELS - BA - AL1, AND BA - AL2

Applications

Furnaces, Kitchen hoods, Central air conditioners. Fan Coil Units, Unit ventilators etc.

Media

It is combined of expanded and slit aluminum, bonded together in various patterns to form a unique baffle design. This new manufacturing procedure actually "Bounces" the air as it travel through the filter. The impingement principle action meets hundreds of adhesive coated baffle surfaces which trap most dirt, pollen and dust. The rust proof aluminum washes easily, and its glistening appearance has exceptional consumer acceptance.

Frame

Aluminum/ G.I. mill finish 24 gauge.

Construction :

Aluminum expanded media of 5/8 inch thick in one layer for 1" thick frame, and in two layers for 2" thick frame encased in Aluminum /G.I. mill finish 24 gauge frame.

Arrestance

Average dust arrestance will be 75% at 350FPM, tested at 1200CFM (350FPM) on a filter of size 24"x24"x1"

Dust holding capacity

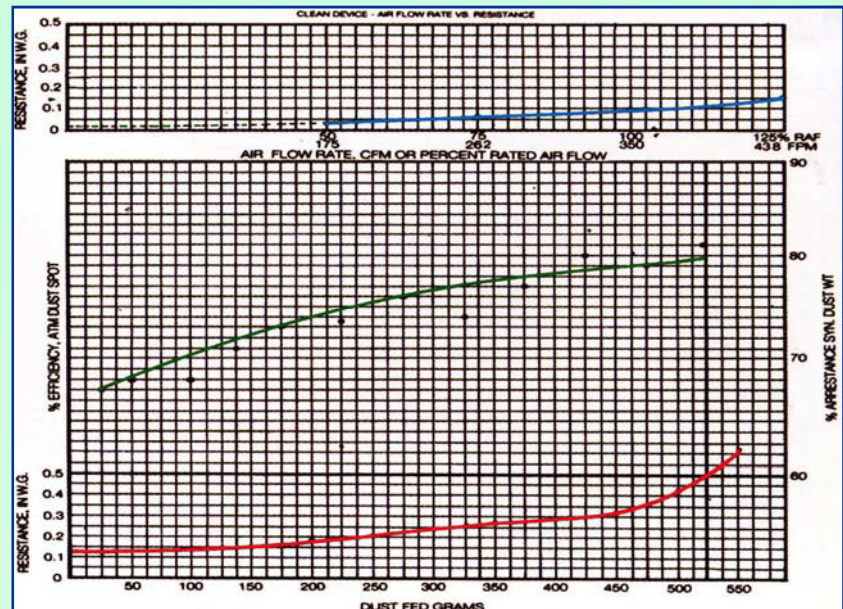
395 Grms at final resistance of 0.5 W.G.
Normal standard nominal sizes are as follows

10" x 20" x 1" 10" x 20" x 2"
16" x 20" x 1" 16" x 20" x 2"



20" x 20" x 1" 20" x 20" x 2"
16" x 25" x 1" 16" x 25" x 2"
24" x 24" x 1" 24" x 24" x 2"
25" x 25" x 1" 25" x 25" x 2"

Actual sizes and thickness to be 1/4" less than the nominal sizes.



WASHABLE FLAT & PLEATED FILTERS MODELS - BA - WF1 AND BA -WF2(Flat) BA-WFP2-(PLEATED)



The media is soft, easy to handle, and extremely resilient. It has a wide operational level in all environmental conditions, will withstand direct moisture and temperature ranges from - 20...C to 120...C without deterioration or media failure.

Applications

Central air-conditioning, fan coil units, unit ventilators etc..

Media

Polyester - Tangle fleece compressed on the air outlet side. The media is also called as synthetic filters.

Construction

Filter pads are cut to the required sizes, encased in galvanised M.S steel frames with G.I. mesh retainers (PLEATED & FLAT TYPE) pleated type provides an extended surface area on the filter media. Filter medias are available from 4 MM to 40 MM thick with different dust holding capacities.

Standard sizes :

10" x 20" x 1" 10" x 20" x 2" 20 x 20 x 4"
16" x 20" x 1" 16" x 20" x 2" 20 x 12 x 4"
20" x 20" x 1" 20" x 20" x 2" 12 x 24 x 4"
16" x 25" x 1" 16" x 25" x 2" 24 x 24 x 4"
20" x 25" x 1" 20" x 25" x 4" 20 x 24 x 4"
24" x 24" x 1" 24" x 24" x 2" 16 x 20 x 4"
25" x 25" x 1" 25" x 25" x 2" 12 x 16 x 4"

The following chart of test results gives an ideal of commonly used synthetic washable medias

TEST RESULTS OF BINAIR FILTER MEDIA TO ASHRAE 52-68 GRAVIMETRIC

Media Model Ref.	Average % Arrestance	Air Velocity M/S	Dust Holding Capacity gms/M ²	Pressure Loss		Thickness of Media (mm)	Grade EU
				Initial Pascals	Final Pascals		
SYNTHETIC - 4/15 BA	83	1.5	482	24	150	10 - 12	3
SYNTHETIC - 4/25 BA	94	1.5	510	41	250	20	4
SYNTHETIC - 5/13 BA	83	1.5	577	44	200	40	3
SYNTHETIC - 6/19 BA	95	1.5	272	26	250	15- 20	5
SYNTHETIC - 6/50 BA	96	1.5	227	36	400	20	5

NOTE: Graphics Showing

Resistance Vs Dust

Resistance Vs Velocity

Arrestance Vs Dust Fed Can be supplied an request

Non Standard Sizes can be made on request

Further details are available upon request. All specific questions may be forwarded to our office or may be called for expediency