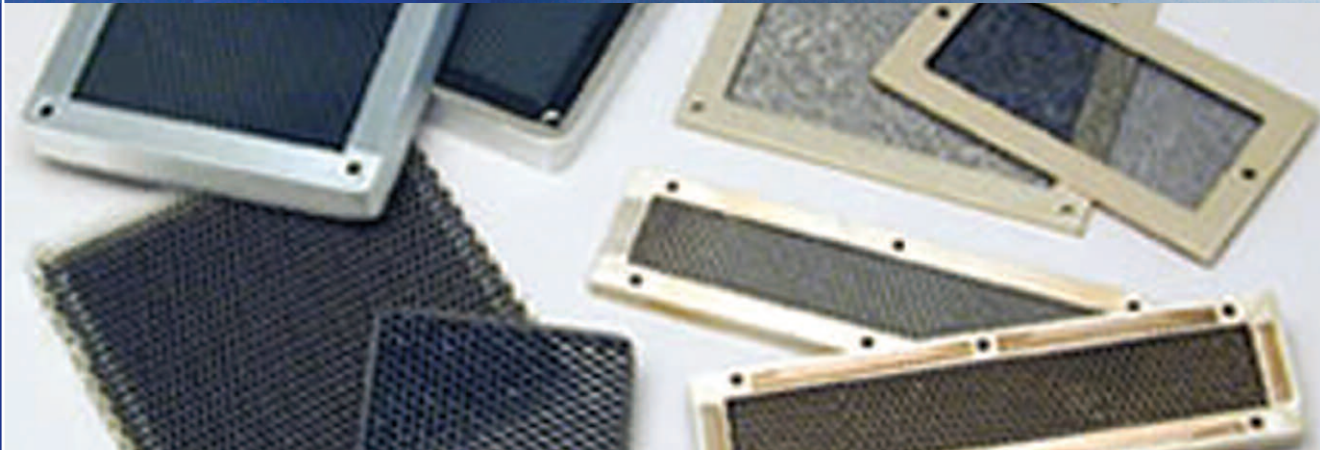


## AIR FILTRATION DEVICES



AIR FILTRATION DEVICES | 1200 RANGE

EMI

### DESCRIPTION:

Arka Technologies' ventilation panels are specifically designed to maintain substantial air flow, whilst filtering EMI and /or dust. Arka Technologies' air filtration devices are available in a wide variety of styles, and are supplied to meet your specific needs.

### APPLICATIONS:

Intended for use where electronic equipment requires ventilation, while the free flow of electro-magnetic waves are not acceptable. The filtration media chosen for your application depends on your specific requirements.

Please see tables for all available sizes and materials.

Part No.	W x L	A	B	C	D	E	F
XX01	3" x 3"	1.25"	1.25"	-	-	1"	1"
XX02	3" x 4"	1.25"	1.75"	-	-	1"	1"
XX03	3.5" x 7.25"	1.50"	1.25"	2.12"	-	-	-
XX04	4" x 4"	1.75"	1.75"	-	-	1"	1"
XX05	4" x 5"	1.75"	2.25"	-	-	1"	1"
XX06	4" x 6"	1.75"	1.00"	3.50"	-	1"	2"
XX07	4" x 7"	1.75"	1.50"	3.50"	-	1"	2"
XX08	4" x 8"	1.75"	.750"	3.00"	-	1"	3"
XX09	4" x 10"	1.75"	1.25"	3.50"	-	1"	3"
XX10	4" x 12"	1.75"	1.25"	3.50"	-	1"	4"
XX11	4" x 15"	1.75"	1.25"	3.00"	-	1"	5"
XX12	4" x 17"	1.75"	1.25"	3.00"	-	1"	5"
XX13	5" x 5"	2.25"	.750"	3.50"	-	1"	2"
XX14	5" x 6"	2.25"	1.00"	3.00"	-	1"	2"
XX15	5" x 7"	2.25"	1.50"	3.50"	-	1"	2"
XX16	5" x 9"	2.25"	.750"	3.50"	-	1"	3"
XX17	5" x 10"	2.25"	1.25"	4.00"	-	1"	3"
XX18	5" x 11"	2.25"	1.25"	3.50"	-	1"	3"
XX19	5" x 12"	2.25"	1.25"	3.00"	-	1"	4"
XX20	6" x 6"	1.00"	1.00"	3.50"	3.50"	2"	2"
XX21	6" x 7"	1.00"	1.50"	3.50"	3.50"	2"	2"
XX22	6" x 8"	1.25"	.750"	3.00"	3.50"	2"	3"
XX24	6" x 10"	1.00"	1.25"	3.50"	3.50"	2"	3"
XX25	6" x 12"	1.00"	1.25"	3.00"	3.50"	2"	3"
XX26	6" x 15"	1.00"	1.25"	3.00"	3.50"	2"	4"
XX27	7" x 7"	1.50"	1.50"	3.50"	3.50"	2"	5"
XX28	7" x 8"	1.50"	.750"	3.00"	3.50"	2"	2"
XX29	7" x 9"	1.50"	.750"	4.00"	3.50"	2"	3"
XX30	7" x 10"	1.50"	1.25"	3.50"	3.50"	2"	3"
XX31	7" x 11"	1.50"	1.25"	3.00"	3.50"	2"	3"
XX32	7" x 12"	1.50"	1.25"	3.00"	3.50"	2"	3"
XX33	7" x 14"	1.50"	1.50"	3.50"	3.50"	2"	4"
XX34	8" x 8"	2.00"	.750"	3.00"	3.50"	2"	3"
XX35	8" x 9"	2.00"	.750"	4.00"	3.50"	2"	3"
XX36	8" x 10"	2.00"	1.25"	3.50"	3.50"	2"	3"
XX37	8" x 11"	2.00"	1.25"	3.00"	3.50"	2"	3"
XX38	8" x 12"	.750"	1.25"	3.00"	3.00"	3"	4"
XX39	8" x 14"	.750"	1.50"	3.50"	3.00"	3"	4"
XX40	8" x 16"	.750"	1.25"	3.25"	3.00"	3"	5"

## AIR FILTRATION DEVICES

### HONEYCOMBE CORE:

This type of media is used most frequently in the electronics industry. This allows for the best airflow of all the available filtration media. The effective attenuation depends on the core material chosen, the depth and width of the cell, and the plating used.

### WOVEN SCREEN:

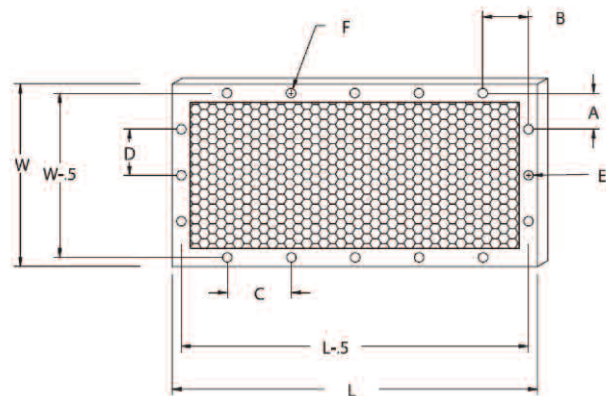
This style of media is used when dust and EMI must be controlled. Corrugated screen is layered to the required thickness, usually one half inch, and is supplied with a water-soluble film to aid in dust retention.

### EXPANDED METAL:

Layers of expanded metal screen are compiled to produce our most effective Dust/EMI filtration device. This media generates the most resistance to the airflow, however it's efficient retention of dust is unsurpassed.

A variety of thicknesses (and cell widths) are available for each filtration media. Listed below are our standards.

### STANDARD VENT DESIGNS



Part No.	Thickness (inches)	Cell width (inches)
12X1	.250"	.062"
12X2	.375"	.062"
12X3	.375"	.125"
12X4	.500"	.062"
12X5	.500"	.125"
12X6	.750"	.125"
12X7	.750"	.188"
12X8	1.00"	.125"
12X9	1.00"	.188"

## AIR FILTRATION DEVICES

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### FASTENER DESIGN:

The type of fastener as well as the spacing between the fasteners is also an important design consideration. This decision must incorporate the compressibility of the gasket, the thickness (flexibility) of the mating surfaces, and the intended closing force. The most commonly used fasteners are listed below with their part number.

Part No.	
1XXX	Thru Holes
2XXX	6-32 Rivnuts
3XXX	8-32 Rivnuts
4XXX	6-32 Helicoil
5XXX	8-32 Helicoil
6XXX	No Holes

### FRAME DESIGN:

Aluminium vent panels require extruded frames for structural support. Ja-Bar stocks five different commonly used frames styles, insuring fast delivery of a vent panel you can use for your particular application. Figures 2.1 thru 2.5 show the cross-section view of our extruded framing materials.

Part No.	(inches)
12XX-1XXX:	Fig. 2.1: 0.375" base X 0.250" leg
12XX-2XXX:	Fig. 2.2: 0.500" base X 0.250" leg
12XX-3XXX:	Fig. 2.3: 0.625" base X 0.500" leg
12XX-4XXX:	Fig. 2.4: 1.125" base X 0.500" leg
12XX-5XXX:	Fig. 2.5: 1.060" base X 0.375" leg

### FINISHING OPTIONS

Part No.	
1XX	Chemical Conversion MIL-C-5541, Class 1
2XX	Tin Plating per MIL-T-10727, Type 1
3XX	Cadmium Plate per QQ-P-416
4XX	Electroless Nickel Plate per MIL-C-26074

