EMI/RFI Shielded Air Filtration Panels (3000 Series)

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Designed with dust handling and air intake in mind, MAJR's high efficiency air filters are supplied with a EMI/RFI gasket as an integral part of the filter assembly for quick installation. The rigidity of the mounting frame makes installation and removal for cleaning an easy task. The filter media used in our air filter panels can be supplied in a dry or oil soaked "wet" version depending your application. Keep in mind that impingement of fine dust particles on filters with a oil coating is greatly enhanced.

Design Data

EMI/RFI Shielding

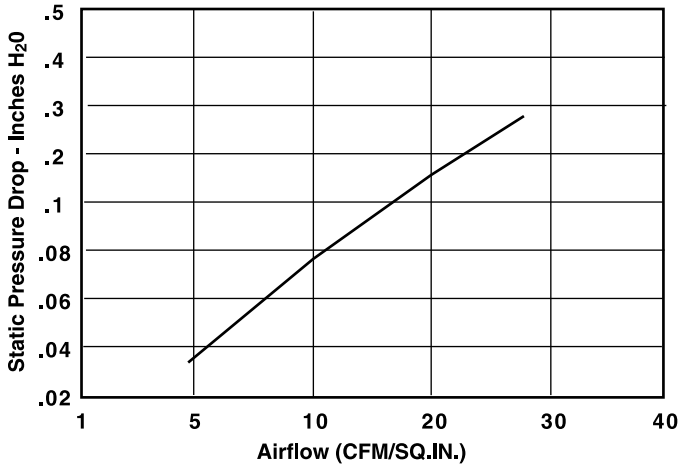
Shielding Effectiveness vs Frequency — Table 1

Shielding Effectiveness dB	Field	Material Code - 57 Frequency						
		100 kHz	1 MHz	18 MHz	100 MHz	400 MHz	1 GHz	10 GHz
	H	52	68	—	—	—	—	—
	E	—	—	95	—	—	—	—
	PW	—	—	—	90	70	65	50

The values in Table 1 show shielding characteristics for standard MAJR shielded air filters. Note that the data indicated is based on a unit whose opening was 12.00 x 12.00 (305 x 305 mm) and tested under laboratory conditions.

Static Pressure Drop vs. Air Flow Resistance

Figure 1



The low resistance to air flow of these panels will minimize pressure drop within the cabinet allowing air to move freely through the intake while performing the desired dust filtration function. The curves in Figure 1 show the resistance per square inch for standard filter media.

Features

- **Optimum Shielding, Air Flow and Dust Filtration**
  Installation of the air filter into the electronic enclosure provides an effective dust filter with minimal resistance to air flow while simultaneously providing attenuation of electromagnetic interference to levels indicated in Figure 1.
- **Standard Configurations**
  The broad selection of sizes of shield air filter media provides the widest choice in design objectives.
- **Ease of Installation**
  EMI/FRI shielded air filters are supplied with EMI/RFI gasket and mounting holes or captive fasteners — ready for installation into cabinet.

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