AAF MEGApleat M9
Specifications

1.0 GENERAL:
The purpose of this specification is to establish performance criteria and identify physical properties that are pertinent and necessary for proper filter performance. Conformance to all items in the specifications is the responsibility of the bidder.

2.0 PERFORMANCE CHARACTERISTICS
Filters of the size and air flow capacity shall meet the following rated performance specifications based on the ASHRAE 52.2 test method. Pertinent tolerances specified in Section 7.4 of the Air-Conditioning and Refrigeration Institute (ARI) Standard 850-93 shall apply to the performance ratings. All testing is to be conducted on filters with a nominal 24" x 24" face dimension.

Minimum Efficiency Reporting (MERV)	9	9	9
Nominal Size (Width x Height x Depth)	24x24x1	24x24x2	24x24x4
Rated Air Flow Capacity (CFM)	2,000	2,000	2,000
Final Resistance (In W. G.)	1.0	1.0	1.0
Rated Initial Resistance (In W. G.)	0.38	0.22	0.17
Pleats per Lineal Foot	14	14	11
Dust Holding Capacity @ 1.0"(grams)	-	175	375

2.1 When tested per ASHRAE 52.2 test method, the filter must have a minimum efficiency of 75% on particles in the 3 to 10 micron range and 35% on particles in the 1 to 3 micron range.

2.2 The filters shall be UL Classified and Listed by Underwriters' Laboratories, Inc. when tested according to U. L. Standard 900 and CAN 4-S111.

3.0 BID ATTACHMENTS:
One (1) ASHRAE 52.2 test report from an independent, commercially operated test lab. The supplier shall grant permission to the test lab which conducts the ASHRAE tests to verbally verify the test results to the purchaser on request.

4.0 PHYSICAL CHARACTERISTICS:
Each filter shall consist of a pleated media pack enclosed in a beverage board die-cut frame.

4.1 The media shall be composed of 100% synthetic fibers. No tints, additives or binders to be used. No electrostatic charge shall be imparted on the media to boost efficiency.

4.2 A heavy-duty, galvanized expanded metal support grid shall be laminated to the air leaving side of the media.

4.3 The filter frame shall consist of two die-cut pieces of high wet-strength beverage board, one for the air entering side and one for the air leaving side. Each piece consists of a filter grid and four frame sides. When assembled, the two mating halves of the frame overlap one another providing double wall frame sides. The beverage board is to be a minimum thickness of 28-point.

4.4 The pleated media pack shall be bonded to the filter frame around the entire inner periphery of the frame to eliminate any possible leak paths. In addition to the inner periphery of the frame, all points of contact between the pleat tips and the die cut board shall be bonded as well. The adhesive used in the assembly must be moisture resistant to provide adhesion even under high moisture conditions.