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**AAF 4" PerfectPleat ULTRA
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)	8
Nominal Size (Width x Height x Depth)	24x24x4
Rated Air Flow Capacity (CFM)	2,000
Final Resistance (In W. G.)	1.0
Rated Initial Resistance (In W. G.)	0.27
Pleats per Lineal Foot	11

- 2.1 When tested per ASHRAE 52.2 test method, the filter must have a minimum efficiency of 70% on particles in the 3 to 10 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 an individual pleated media pack, enclosed in a 2 piece, moisture resistant beverage container board frame with integral pleat spacers and support straps.

- 4.1 The media shall be a blend of 100% virgin synthetic fibers. Media must also be self supporting in pleated form, with no metal or plastic material laminated to the media to provide pleat support.
- 4.2 The pleated media pack shall have 3 support straps on the air entering side of the pleat pack. The support straps are to be made from 28 pt. moisture resistant beverage carrier board and must be adhered along the tips of each pleat.
- 4.3 The pleat pack shall be totally enclosed in a 2-piece, 28 pt. moisture resistant beverage containerboard frame. The frame shall have a die cut grid support adhered to the air entering side of the pack. The air leaving side of the frame shall consist of a series of integral support straps with pleat spacers. The pleat spacers shall be inserted into the depth of the pleat providing stability and support for the pleats.
- 4.4 Each filter shall be protected by an antimicrobial registered with the U.S. Environmental Protection Agency for the express purpose of, and technical data sheet approval for, use in air filter products.

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