

AAF VariCel VXL 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)	15	14	13	11
Nominal Size (Width x Height x Depth)	24x24x12	24x24x12	24x24x12	24x24x12
Rated Air Flow Capacity (CFM)	2,000	2,000	2,000	2,000
Final Resistance (In W. G.)	2.0	2.0	2.0	2.0
Rated Initial Resistance (In W. G.)	0.39	0.36	0.32	0.28
Gross Media Area (Sq. Ft. for 24x24)	197	197	197	197

2.1 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 8 pleated media packs assembled into 4 V-banks within a totally plastic frame. The filters shall be capable of operating at temperatures up to 176 degrees Fahrenheit

4.1 Frame

The molded end panels are to be made of high impact polystyrene plastic. The center support members shall be made of ABS plastic. No metal components are to be used.

4.2 Media

The media shall be made of micro glass fibers with a water repellent binder. The media shall be a dual density construction, with coarser fibers on the air entering side and finer fibers on the air leaving side.

4.3 Separators

The media shall be pleated using separators made of continuous beads of low profile thermoplastic material.

4.4 Media Pack Bond

The media packs shall be bonded to the structural support members at all points of contact, this improves the rigidity as well as eliminates potential air bypass in the filter.

4.5 Optional for MERV 14 and MERV 15 filters - 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.