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Specifications

Number:	SP-240-4
Product:	AmerSeal Blue, 3-Ply
Effective:	03-08-04
Replaces:	11-06-01
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Specifications for 3-Ply Synthetic, Self-Sealing Disposable Ring Panel, UL Class 2:

1.0 SCOPE

This specification covers disposable synthetic ring panel filters that are a component of air-conditioning, heating and ventilating systems.

2.0 PURPOSE

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.

3.0 PERFORMANCE CHARACTERISTICS

- 3.1 Filters of the size and air flow capacity shall meet the following rated performance specifications based on the ASHRAE 52.2 test method. All testing is to be conducted on filters with a nominal 24" x 24" face dimension.

Nominal Size (Width x Height)		24x24
Minimum Efficiency Reporting Value (MERV)		8
Rated Air Flow Capacity (CFM)		2,000
Rated Initial Resistance (In W. G.)		0.36"
Final Resistance (In W. G.)		1.0

- 3.2 The filters shall be approved and Listed by Underwriters' Laboratories, Inc. Class 2 when tested according to U. L. Standard 900 and CAN 4-S111.

4.0 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.



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5.0 PHYSICAL CHARACTERISTICS

5.1 Filter Construction

The filter shall consist of 3 layers of synthetic media, heat sealed around the entire periphery of the internal wire support, and in the center to contain the support wire.

5.2 Filter Media

The filter shall be composed of 3 distinct layers of high loft polyester filter media. The combination of media will form a graded density filter with the most open media on the air entering side transitioning to denser media on the air leaving side.

The *air entering media* shall be 1 1/4" thick, and composed of two layers of media. The initial layer of media shall be 100% - 40 denier fibers, with the second layer composed of a blend of 75% - 15 denier and 25% - 6 denier fibers. The air leaving side of the media shall be tinted blue in color.

The *air leaving media* shall be a 1/8" thick polyester media composed of a blend of 67% - 6 denier fibers and 33% - 15 denier fibers. The media will be white in color and contain a tackifier on the air entering side of the media.

5.3 Filter Tackifier

A non-migrating, pressure-sensitive, "dry" tackifier must be applied to the air entering side, of the air leaving media. No chlorinated paraffin, polybutene, or petroleum based adhesives are allowed.

5.4 Internal Wire Ring Support

The internal wire support frame shall be made of 9 gauge galvanized steel, and shall have cross wire supports in both the horizontal and vertical directions.

6.0 PACKAGING AND IDENTIFICATION

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Packaging shall provide adequate protection against damage or deterioration during shipment and allow complete identification of both the filters and the shipping container.

6.1 Package Markings

- 6.1.1 The name or tradename of the product
- 6.1.2 The nominal size of the filter
- 6.1.3 Name of Manufacturer

7.0 **APPROVED INTERNATIONAL QUALITY SYSTEM**

- 7.1 The manufacturer shall have implemented, or be in process of implementing, an approved international quality system based on ISO 9000 at the facility manufacturing this product.
 - 7.1.1 If manufacturer has implemented an approved international quality system, the manufacturer shall make available documentation showing third party certification of same.
 - 7.1.2 If manufacturer is in process of implementing an approved international quality system, manufacturer shall submit evidence illustrating progress towards compliance. Evidence is defined as a timetable for implementation plus one or more operating procedures.
- 7.2 If requested, manufacturer shall make available their procedures describing the monitoring of their Approved Vendors List (AVL).
- 7.3 If requested, manufacturer shall make available a copy of their Corporate Quality Manual.
- 7.4 Manufacturer shall provide evidence of a corporate quality policy which must be signed by an officer of the company.