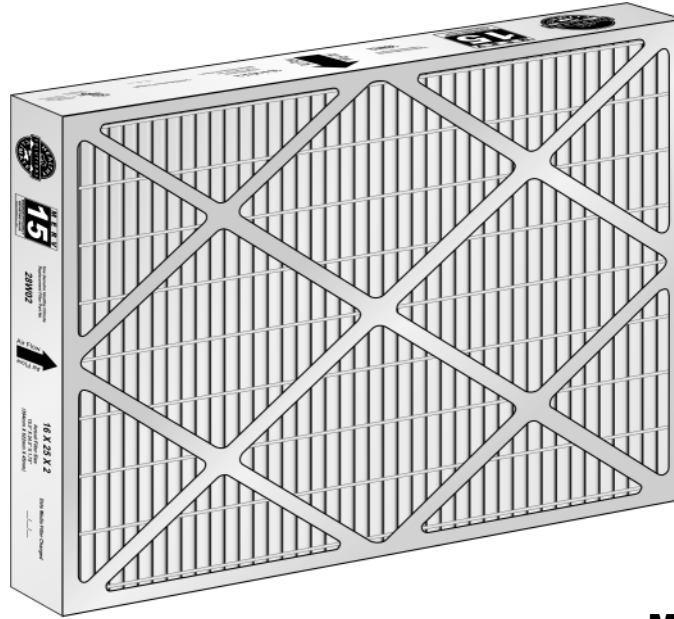




## ENGINEERING DATA

# INDOOR AIR QUALITY C1FLTR HEALTHY CLIMATE® COMMERCIAL AIR FILTERS (2 INCH)

Bulletin No. 210493  
July 2007



## MERV 11 and MERV 15

### FEATURES AND BENEFITS

#### APPROVALS

MERV 11 or 15 (Minimum Efficiency Reporting Value based on ASHRAE 52.2-2007) rated.

Media is certified to UL 900 standard and UL/ULC classification - Class 2.

Pleated filter design allows maximum air flow and filtration efficiency.

Silent operation, requires no electrical component

Generates no ozone.

#### FILTER CONSTRUCTION

Pleated filter media is arranged in a "V" shape form to increase the surface area without increasing the face area. This increases the particle holding capability and allows the filters to have a lower pressure drop due to the increased flow area in the "V" shape.

Frames are marked with filter size and all necessary installation and safety information.

#### MERV 11 Filters

Filter media is constructed of 100% electrostatically charged synthetic fibers thermally bonded together.

Engineered gradient design - Fibers are more open on entering air side and more closely aligned on leaving air side which creates a dual layer of filtration.

Expanded galvanized metal mesh is laminated to the air leaving side of the media for added strength.

Double-wall, clay-coated beverage board frame for rigid construction. Moisture and fire resistant.

#### MERV 15 Filters

Filter media is constructed of glass fiber on entering air side and melt blown on leaving air side which creates a dual layer of filtration.

Hot melt glue bead pleat separators on both sides of filter media.

Double-wall, clay-coated beverage board frame for rigid construction. Moisture and fire resistant.

## ROOFTOP UNIT FILTER REFERENCE

Rooftop Models	<sup>1</sup> MERV Rating	Filter Model No.	Catalog No.	No. of Filters Required	Nominal Filter Size - in.	Actual Filter Size - in.
L Series 036 thru 072 (3 thru 6 ton)	11	C1FLTR20EA1-	<b>97L84</b>	2	16 x 25 x 2	15-1/2 x 24-1/2 x 1-3/4
	15	C1FLTR50EA1-	<b>28W02</b>	2	16 x 25 x 2	15-1/2 x 24-1/2 x 1-3/4
L Series 090 thru 150 (7.5 thru 12.5 ton)	11	C1FLTR20B-1-	<b>97L86</b>	4	18 x 24 x 2	17-1/2 x 23-1/2 x 1-3/4
	15	C1FLTR50B-1-	<b>28W04</b>	4	18 x 24 x 2	17-1/2 x 23-1/2 x 1-3/4
L Series 156 thru 300S (13 thru 25 ton)	11	C1FLTR20C-1-	<b>97L87</b>	6	24 x 24 x 2	23-3/8 x 23-3/8 x 1-3/4
	15	C1FLTR50C-1-	<b>28W05</b>	6	24 x 24 x 2	23-3/8 x 23-3/8 x 1-3/4
L Series 248, 300H and 360 (21, 25 and 30 ton)	11	C1FLTR20D-1-	<b>97L88</b>	12	20 x 20 x 2	19-1/2 x 19-1/2 x 1-3/4
	15	C1FLTR50D-1-	<b>28W06</b>	12	20 x 20 x 2	19-1/2 x 19-1/2 x 1-3/4
S-Class 420 thru 600 (35 thru 50 ton)	11	C1FLTR20EA1-	<b>97L84</b>	11	16 x 25 x 2	15-1/2 x 24-1/2 x 1-3/4
	15	C1FLTR50EA1-	<b>28W02</b>	11	16 x 25 x 2	15-1/2 x 24-1/2 x 1-3/4

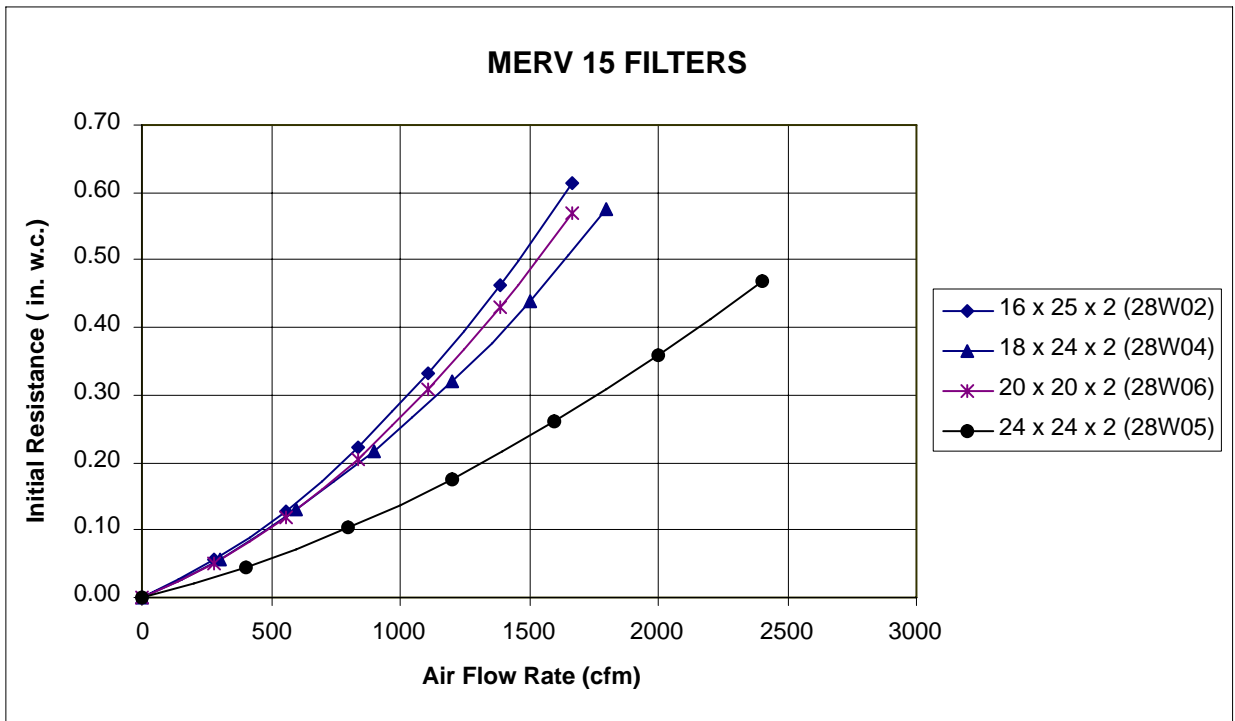
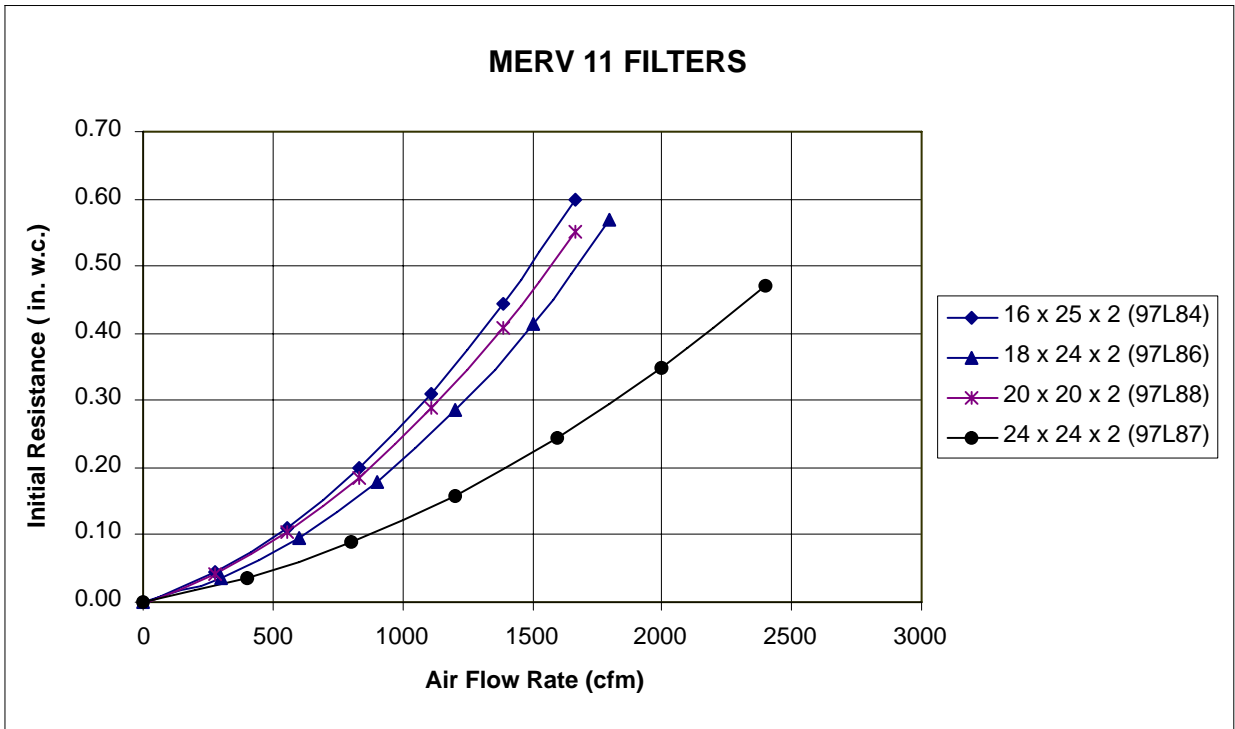
<sup>1</sup> Values are based on lab tests conducted with conditions included in ASHRAE Standard 52.2-2007.

## FILTER EFFICIENCY

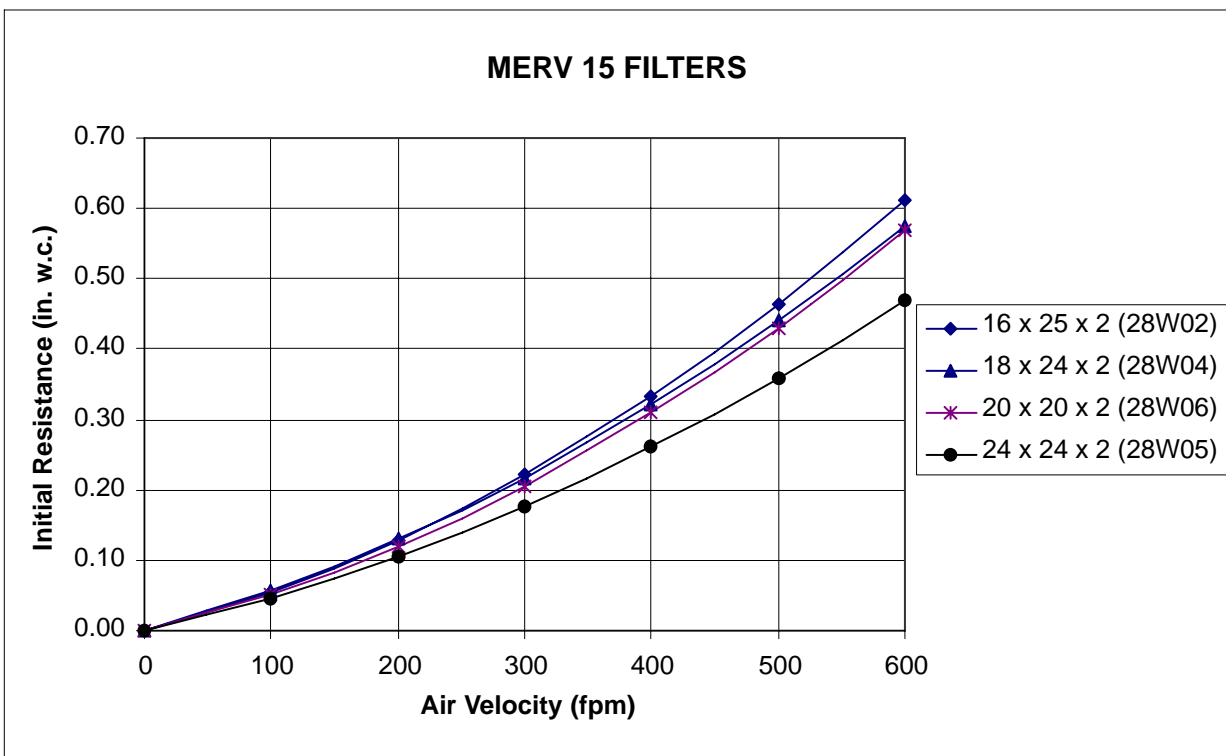
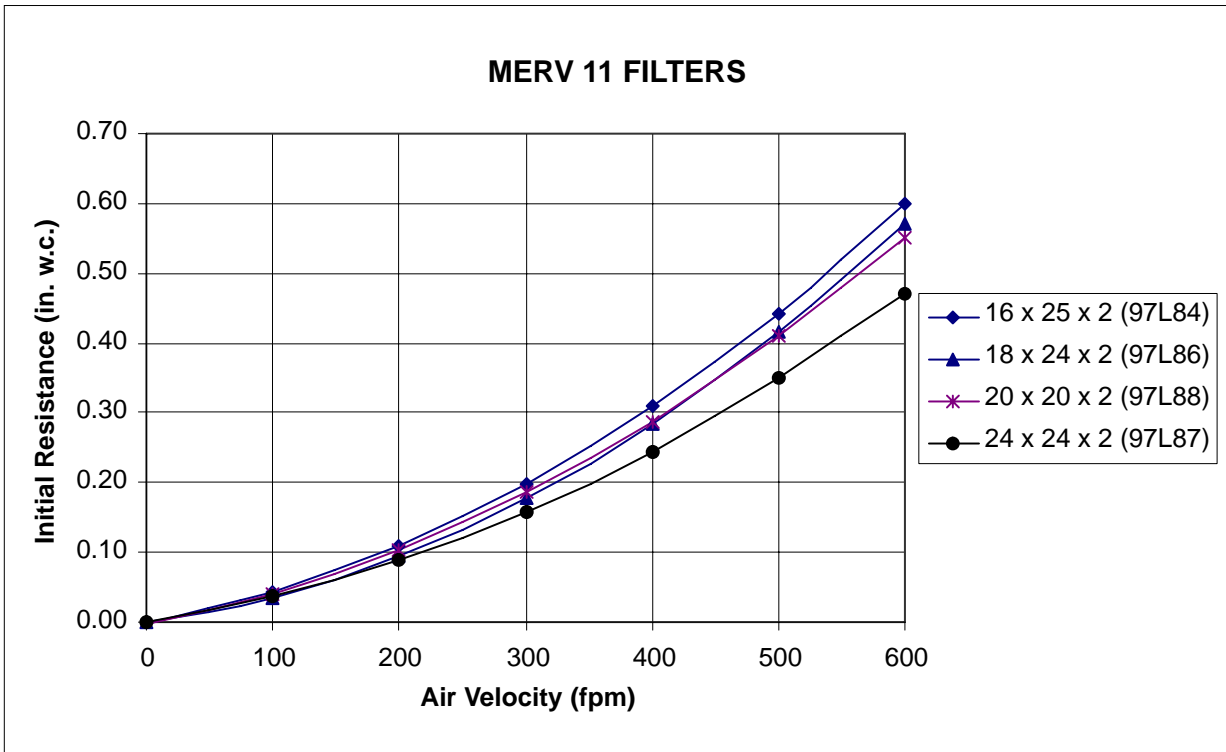
MERV Rating	<sup>1</sup> Filter Efficiency (percentage)		
	E1 (0.3 to 1.0 microns)	E2 (1.0 to 3.0 microns)	E3 (3.0 to 10.0 microns)
11	---	69%	85%
15	90%	98%	99%

<sup>1</sup> Values are based on lab tests conducted with conditions included in ASHRAE Standard 52.2-2007.

# INITIAL RESISTANCE VERSUS AIR FLOW RATE



# INITIAL RESISTANCE VERSUS AIR VELOCITY



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NOTE - Due to an ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency.

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