

## General

The Flanders Precisionaire Modified Channel Frame disposable air filter provides the user with a product of unusual quality and strength.

Originally designed for light commercial and industrial applications, the Flanders precisionaire Modified Channel Frame filter is an excellent choice for use in residential furnace systems.

The filter is produced on state-of-the-art production line machinery that compresses a one-piece channel frame onto the media and retainer. The result is a filter of consistent high quality at a competitive price.

## Construction

The one-piece channel frame is formed into a wedge which slopes to the center on the upstream side and is flat on the air exit side. The one-piece feature, eliminates problems associated with four-piece frames, such as broken corners and exposed metal edges. This flat air exit side distinguishes the Modified Channel filters from ordinary pinch frame filters that may be difficult to install/remove and which may not seal well in the filter channel. A notched frame design allows the filters to nest, creating savings advantage of approximately 30-35% in warehouse space and freight costs.

A double bead of hot melt glue running the full perimeter of the frame is used to bond all components into one tough unit. This process permits the use of a single metal grid on the air exit side only or no metal grid at all, thus maximizing filter face area to extend service life. Four separate Modified Channel Styles are offered:

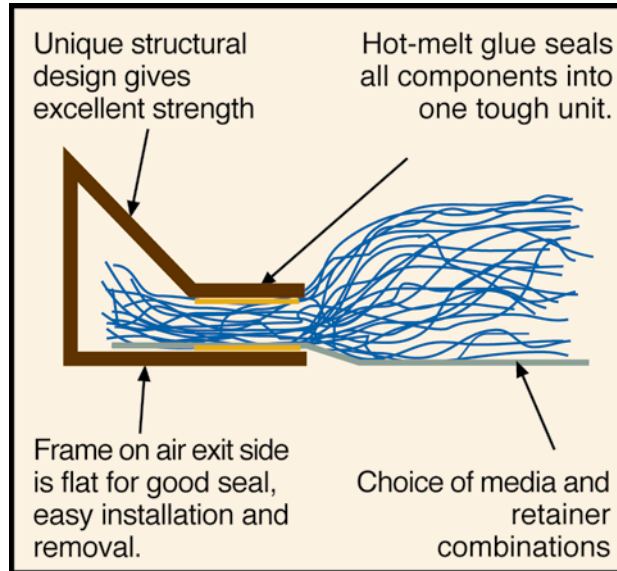
**EZ Flow:** The filtering media is continuous filament spun glass. A resinous bonding agent provides rigidity and resistance to media compression. A metal media retainer is positioned on the downstream side. Retainer may be either recycled bottle-cap or expanded metal, depending on filter size.

**EZ Flow II:** Construction is identical to the EZ Flow Modified Channel, but there is no metal media retainer.

**Flanders Precisionaire Synthetic:** The filtering medium is made of 100% nonwoven polyester synthetic fibers chemically bonded with a fire retardant resin. Because of the synthetic nature of the fiber, the media is extremely resistant to moisture and other environmental extremes.

**Flanders Precisionaire Synthetic with Metal:** Construction is identical to the Flanders Precisionaire Synthetic filter but with an added metal retainer on the downstream side.





### Guide Specifications

#### 1.0 General

- 1.1 Disposable filters shall be (EZ Flow MC, EZ Flow IIMC, Flanders Precisionaire MCS, Flanders Precisionaire MCS1) Modified Channel Frame filters as manufactured by Flanders .
- 1.2 Filters shall be UL 900 Class 2 listed.

#### 2.0 Filter Construction

- 2.1 Frame shall be one-piece chipboard channel formed into a wedge sloping to the center of the filter on the upstream side and flat on the downstream side to ensure ease of installation and good sealing in the filter track. Media pack shall be pressed between the two lips of the filter frame and sealed with double beads of hot melt adhesive running the full perimeter of the frame.
- 2.1 Media pack for the EZ Flow II MC shall be continuous filament spun glass with a resinous bonding agent.

(OR) Media pack for the EZ Flow MC shall be continuous filament spun glass with a resinous bonding agent and a metal grid on the air exit side.

(OR) Media pack for the Flanders Precisionaire MCS shall be 100% nonwoven polyester synthetic fibers chemically bonded with a fire retardant resin.

(OR) Media pack for the Flanders Precisionaire MCS1 shall be 100% nonwoven polyester synthetic fibers chemically bonded with a fire retardant resin and a metal grid on the air exit side.

#### 3.0 Performance

- 3.1 The manufacturer shall guarantee performance as stated in its literature within tolerances as outlined in Section 7.4 of ARI Standard 850.

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