

**EXTENDED SURFACE  
PLEATED FILTERS**





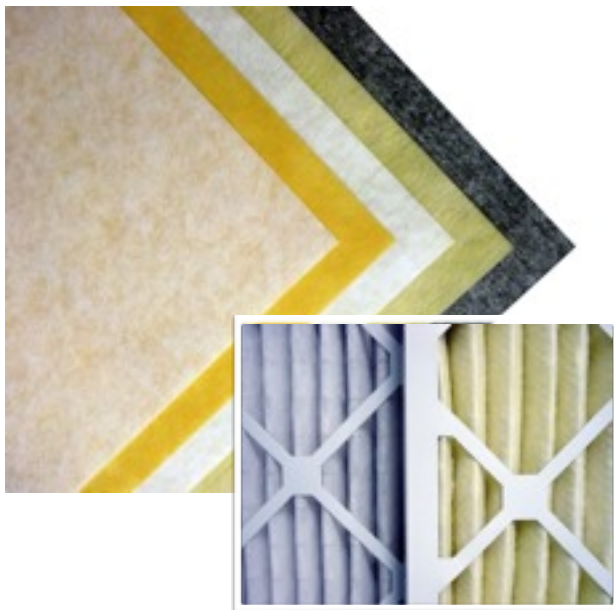
**TRI-PLEAT EXTENDED SURFACE AIR FILTERS OFFER SUPERIOR PERFORMANCE, RUGGED CONSTRUCTION, WIDE RANGE OF SIZES, LONG SERVICE LIFE, AND HIGH EFFICIENCY**

### **CAPACITY LEVELS**

TRI-PLEAT filters are offered in a wide selection of capacity levels – the ES40ME and ES60ME filters are the **High Capacity** series manufactured with the maximum amount of media. The high capacity series offers the lowest resistance, highest dust holding capacity and the longest service life. The ES40LE and ES60LE filters are the **Standard Capacity** series. The standard capacity series offers extended surface area, long service life and high dust holding capacity. Tri-Dim also offers the ES40E filters are the **Economy** series. The economy series offers superior performance for a minimal investment.



*ES40ME Series (l), ES40LE Series (m) and ES40E (r) Series*



*ES40 Series (l) and ES60 (r) Series*

### **MEDIA OPTIONS**

TRI-PLEAT filters offer a variety of filter medias to meet an array of application and needs. The TRI-PLEAT 40 Series media provides MERV 7 efficiency and is manufactured from 100% synthetic fibers to offer superior performance. TRI-PLEAT ES60 Series is manufactured from a fiberglass media and offers superior performance, higher efficiency and are used in high temperature applications. Tri-Dim also offers the LX Series of medias with MERV 8 and MERV 11 efficiencies. Our TRI-PLEAT GREEN offers a MERV 13 efficiency. Carbon medias are also available in our Tri-Sorb XL and Tri-Sorb 50/50 medias for the removal of Gas Phase contaminants.

## WIRE SUPPORT

TRI-PLEAT filters are offered with an expanded metal backing. The Expanded Metal support backing offers exceptional media support. The expanded metal backing is impervious to rust, unlike other metal backings. Rust on the downstream side of a filter can actually add contamination to the air stream. The metal backing is securely bonded to the media for filter integrity.



*Rust Resistant Expanded Metal Backing*



## DIE CUT FRAME

The TRI-PLEAT Die Cut Frame is a robust 28-point beverage board frame with diagonal supports bonded to the media pack for extra strength and to maintain proper pleat spacing. The pleat pack is bonded to a two-piece frame around the entire perimeter edge. Four-inch deep filters also utilize additional cardboard 'finger' supports for stability. The TRI-PLEAT Die Cut frame is treated with an Aqua Coat treatment for added moisture resistance.

## ADDITIONAL OPTIONS

**Antimicrobial Treatment** – EPA Registered treatment to control the growth of microbials within the filter.

**UL Class 1** - Per UL 900 is available. TRI-PLEAT UL Class 1 filter (*photo right*) utilizes a galvanized steel frame and the TRI-PLEAT ES60 media.

**High Temperature** – Tri-Dim's TRI-PLEAT HT (*photo lower right*) is engineered to operate at temperatures up to 500° F (260° C).

**LX Series** – High Efficiency Pleated filters – MERV 8 and MERV 11 – see Brochure #900-2 for more information.

**TRI-PLEAT GREEN** – High Efficiency Pleated filters – MERV 13 - see Brochure #1900-6 for more information.

**Tri-Sorb XL and Tri-Sorb 50/50** – Carbon Pleats for Gas Phase applications – see Brochures #2000-2 and #2000-6 for more information.



*UL Class 1 Pleats*



*HT60 High Temperature Pleats*

# PRODUCT SPECIFICATIONS

## SPECIFICATION TRI-PLEAT ES40 SERIES

### MEDIA:

Synthetic

### RECOMMENDED FINAL RESISTANCE:

1.0" W.G. (249 PA)

### APPROX. SQ. FT. OF MEDIA:

(per 1.0 Sq. Ft. of Filter Face Area)

2" Deep ES40E Series Pleat = 2.1 Sq. Ft.  
4" Deep ES40E Series Pleat = 3.9 Sq. Ft.

1" Deep ES40LE Series Pleat = 1.6 Sq. Ft.  
2" Deep ES40LE Series Pleat = 3.2 Sq. Ft.  
4" Deep ES40LE Series Pleat = 5.9 Sq. Ft.

1" Deep ES40ME Series Pleat = 2.3 Sq. Ft.  
2" Deep ES40ME Series Pleat = 4.8 Sq. Ft.  
4" Deep ES40ME Series Pleat = 7.2 Sq. Ft.

### RESISTANCE @ 500 FPM (2.54 m/sec):

2" Deep ES40E Series = 0.29"WG (72 PA)  
4" Deep ES40E Series = 0.24"WG (60 PA)

1" Deep ES40LE Series = 0.37"WG (92 PA)  
2" Deep ES40LE Series = 0.23"WG (57 PA)  
4" Deep ES40LE Series = 0.22"WG (55 PA)

1" Deep ES40ME Series = 0.31"WG (77 PA)  
2" Deep ES40ME Series = 0.22"WG (55 PA)  
4" Deep ES40ME Series = 0.21"WG (52 PA)

### RATED EFFICIENCY:

ES40E Series = MERV 6  
ES40LE Series = MERV 7  
ES40ME Series = MERV 7

## SPECIFICATION TRI-PLEAT ES60 SERIES

### MEDIA:

Fiberglass

### RECOMMENDED FINAL RESISTANCE: 1.0" W.G. (249 PA)

### APPROX. SQ. FT. OF MEDIA:

(per 1.0 Sq. Ft. of Filter Face Area)

2" Deep ES60LE Series Pleat = 3.2 Sq. Ft.  
4" Deep ES60LE Series Pleat = 5.9 Sq. Ft.

2" Deep ES60ME Series Pleat = 4.8 Sq. Ft.  
4" Deep ES60ME Series Pleat = 7.2 Sq. Ft.

### RESISTANCE @ 500 FPM (2.54 m/sec):

2" Deep ES60LE Series = 0.46"WG (114 PA)  
4" Deep ES60LE Series = 0.37"WG (92 PA)

2" Deep ES60ME Series = 0.40"WG (100 PA)  
4" Deep ES60ME Series = 0.35"WG (87 PA)

2" Deep ES60LE UL 1 = 0.46"WG (114 PA)  
4" Deep ES60LE UL 1 = 0.37"WG (92 PA)

2" Deep ES60ME UL 1 = 0.40"WG (100 PA)  
4" Deep ES60ME UL 1 = 0.35"WG (87 PA)

### RATED EFFICIENCY:

ES60LE Series = MERV 8  
ES60ME Series = MERV 8

ES60LE Class 1 Series = MERV 8  
ES60ME Class 1 Series = MERV 8

Tri-Dim Filter Corporation is committed to continual product development – all descriptions, specifications and performance data are subject to change without notice.

Tri-Dim products are manufactured to exacting criteria - there can be a ±5% variance in filter performance.

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