

**EXTENDED SURFACE
PLEATED FILTERS**

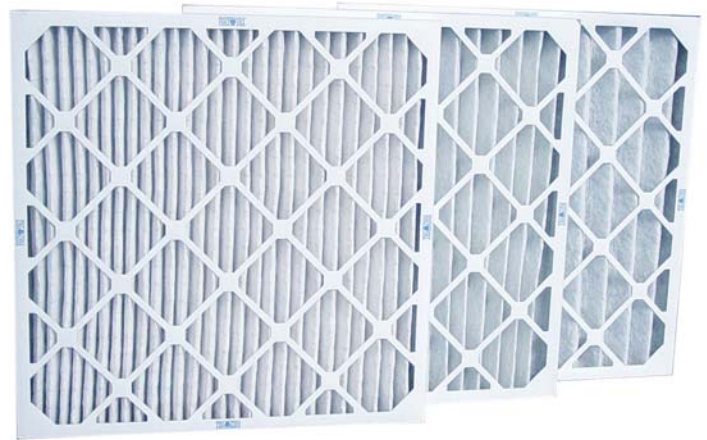




TRI-PLEAT EXTENDED SURFACE AIR FILTERS OFFER SUPERIOR PERFORMANCE, RUGGED CONSTRUCTION, WIDE RANGE OF SIZES, LONG SERVICE LIFE, AND HIGH EFFICIENCY

CAPACITY LEVELS

TRI-PLEAT filters are offered in a wide selection of capacity levels – the ES40M and ES60M series are the **High Capacity** series with the maximum amount of media. The high capacity series offers the lowest resistance, highest dust holding capacity and longest service life. The ES40L and ES60L series 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 **Economy** series for the minimum investment for superior performance.



ES40M Series (l), ES40L Series (m) and ES40 (r)



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. TRI-PLEAT 40 Series media is offered in MERV 6 (ES40L) and MERV 7 (ES40M) efficiencies 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 with higher efficiency and is used in high temperature applications.

Tri-Dim also offers our LX Series of medias with MERV 8 and MERV 11 efficiencies. 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 is designated with an “E” in the model number and offers exceptional media support. The expanded metal backing is impervious to rust, unlike other metal backings. Rust on the downstream side of the 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 upper 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-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 ES40L Series Pleat = 1.6 Sq. Ft.

2" Deep ES40L Series Pleat = 3.2 Sq. Ft.

4" Deep ES40L Series Pleat = 5.9 Sq. Ft.

1" Deep ES40M Series Pleat = 2.3 Sq. Ft.

2" Deep ES40M Series Pleat = 4.8 Sq. Ft.

4" Deep ES40M 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 ES40L Series = 0.37"WG (92 PA)

2" Deep ES40L Series = 0.23"WG (57 PA)

4" Deep ES40L Series = 0.22"WG (55 PA)

1" Deep ES40M Series = 0.31"WG (77 PA)

2" Deep ES40M Series = 0.22"WG (55 PA)

4" Deep ES40M Series = 0.21"WG (52 PA)

RATED EFFICIENCY:

ES40E Series = MERV 6

ES40L Series = MERV 6

ES40M 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 ES60L Series Pleat = 3.2 Sq. Ft.

4" Deep ES60L Series Pleat = 5.9 Sq. Ft.

2" Deep ES60M Series Pleat = 4.8 Sq. Ft.

4" Deep ES60M Series Pleat = 7.2 Sq. Ft.

RESISTANCE @ 500 FPM (2.54 m/sec):

2" Deep ES60L Series = 0.46"WG (114 PA)

4" Deep ES60L Series = 0.37"WG (92 PA)

2" Deep ES60M Series = 0.40"WG (100 PA)

4" Deep ES60M 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:

ES60L Series = MERV 8

ES60M Series = MERV 8

ES60L Class 1 Series = MERV 8

ES60M 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.
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