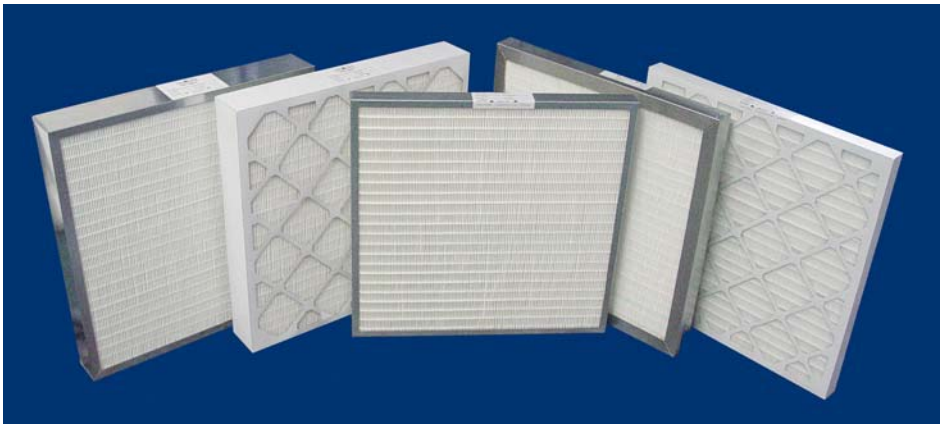
TRI DIM
FILTER CORPORATION

TRI-CELL THIN LINE

HIGH EFFICIENCY MINI-PLEAT



Tri-Cell IV and Tri-Cell II shown with various frame options

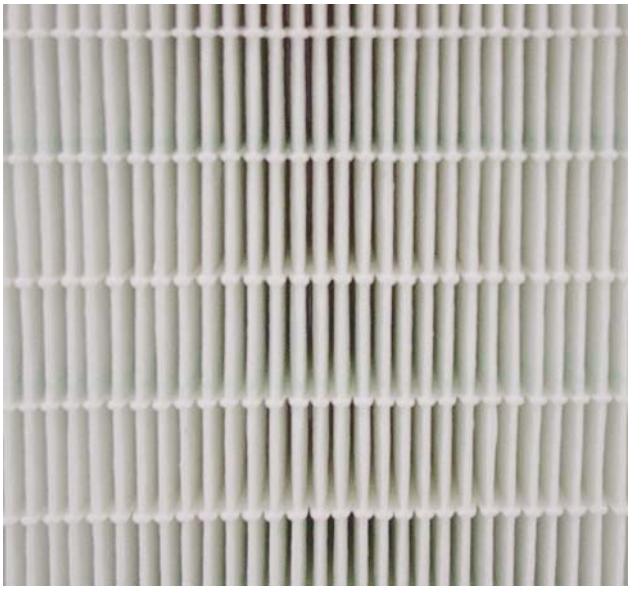
TRI-CELL IV
TRI-CELL II

Thin Line Series offers mini-pleat technology, high efficiency and convenient thin design – a true innovative filtration solution.

Thin Line – Available in either two or four inch thicknesses to offer full flexibility. Higher efficiency requirements due to the increased concerns of bioaersols have left building operators with few options. The Tri-Cell Thin Line Series is a great solution for these retrofit applications.

The Tri-Cell Thin Line Series is also an excellent choice for new construction projects with the added benefit of high filtration while utilizing very little space.

Mini-Pleat Technology – The Tri-Cell Thin Line Series utilizes the same Mini-Pleat technology found in our Tri-Pure HEPA filters. Tri-Cell Thin Line Series media packs are pleated in a cleanroom environment offering maximum protection from contamination during the manufacturing process. Mini-Pleat technology offers the advantage and added benefit of maximum amount of media – this results in longer service life, lower resistance and lower energy related expenses.



HIGH EFFICIENCY – Tri-Cell Thin Line Series is offered in a variety of efficiencies for a wide range of applications. Tri-Cell Thin Line Series is offered in 60-65% (MERV 11), 80-85% (MERV 13) and 90-95% (MERV 14) rated efficiencies.

This wide range of efficiencies offers the flexibility to be effective in removing a wide range of 'target' particle size in a assortment of settings – from hospital, pharmaceutical, commercial, institutional, manufacturing and more.

DISPOSAL – Tri-Cell Thin Line Series offers the advantage of increased disposability. Tri-Cell Thin Line Series increased disposability is achieved by its 'Thin' design and materials of construction. Tri-Cell Thin Line Series offers greater than 80% reduction in volume over other traditional high efficiency filters. When the option of a moisture resistant die-cut frame is used, there are no metal components to dispose of making it a fully incinerable filter.

REDUCED SHIPPING AND STORAGE

Another obvious benefit of the Tri-Cell Thin Line Series is reduced shipping and storage cost. The Tri-Cell Thin Line Series offers a vast reduction in shipping and storage space when compared to other traditional high efficiency products. Reductions can exceed 80% - resulting in significant freight and storeroom savings.

FRAME OPTIONS – Tri-Cell Thin Line Series is offered in three standard frame options. The first is a moisture resistant Die-Cut Frame. This frame option is available in both 2" and 4" depths, in standard and special sizes.

Another frame option available on the Tri-Cell Thin Line Series is the 'C' Style Galvanized Metal Frame. The 'C' style frame offers added robustness for more demanding applications. This frame option is also available in both 2" and 4" depths, in standard and special sizes.

Another option is the Metal Single Header Style. The metal single header style is also constructed of galvanized metal with a 13/16" header and is available only in a 4" depth. This frame style is for use in a 1" filter track maximizing the opportunities to upgrade existing HVAC systems.

This wide selection of frame options and filter depths allows for the use of the Tri-Cell Thin Line Series in a wide range of applications.

Metal Single Header Style – Available in 4" Depth Only

Metal 'C' Style – Available in 2" and 4" Depths

Moisture Resistant Die-Cut Style – Available in 2" and 4" Depths

TECHNICAL INFORMATION

MEDIA

Microfiber

FRAME

Moisture Resistant Die-Cut, and Galvanized ("C" Style and Single Header)

RECOMMENDED AIRFLOW

2" Deep Model – 250 FPM
4" Deep Model – 500 FPM

RECOMMENDED FINAL RESISTANCE

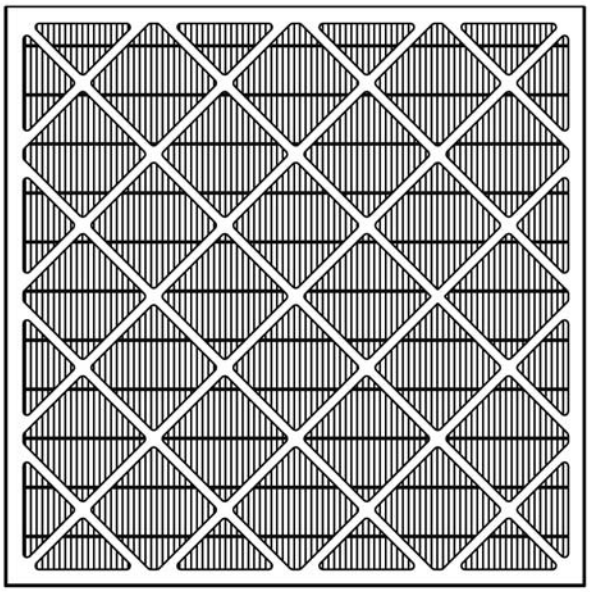
1.5" W.G.

RATED EFFICIENCIES

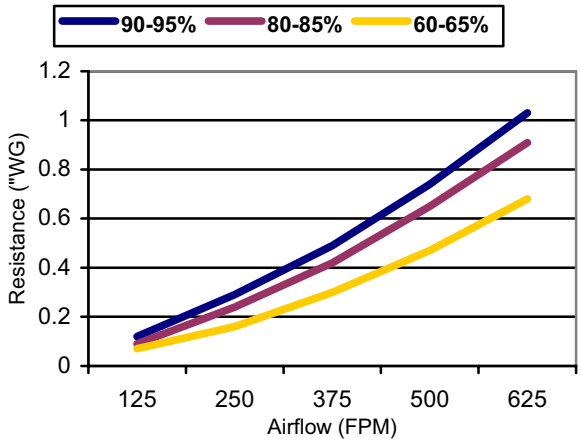
ASHRAE 52.1 (ASHRAE 52.2)

60-65% (MERV 11)
80-85% (MERV 13)
90-95% (MERV 14)

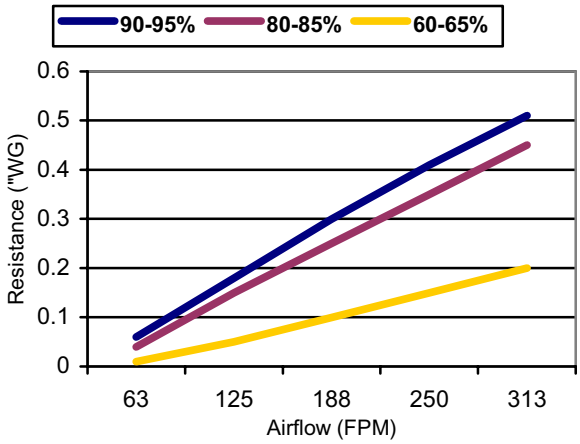
DRAWING



TRI-CELL IV RESISTANCE TO AIRFLOW



TRI-CELL II RESISTANCE TO AIRFLOW



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Brochure # 1300-2
Revision: 03/05