

TRI  DIM
FILTER CORPORATION

TRI-CELL VRC

High Efficiency V-Cell Filter

REPLACEABLE PANEL SYSTEM





The innovative TRI-CELL VRC™ offers a replaceable panel system that is a maintenance friendly solution for reducing shipping, storage and disposal cost, and providing high efficiency.

MAINTENANCE FRIENDLY

The TRI-CELL VRC is an innovative replaceable panel system that was designed with the maintenance staff in mind. The TRI-CELL VRC utilizes a permanent metal frame (pictured right) that can be permanently mounted and is available in 12-inch or 15-inch deep models.

Filter replacement is a breeze – simply remove the old media packs and replace with new media packs.

Another maintenance friendly advantage is the reduced weight – the replacement media packs for a 24x24x12 filter weighs under 7 pounds – compare that to a 24x24x12 ASHRAE Cell that weighs in at over 23 pounds – that is a reduction of over 70%.



REDUCED SHIPPING, STORAGE AND DISPOSAL COST

When you compare the replacement panels for a 24x24x12 TRI-CELL VRC to a typical 24x24x12 high efficiency cell filter there is a reduction in volume of over 65%. This translates into huge savings in freight, storage and disposal.



The TRI-CELL VRC replacement packs are also 'Environmentally Friendly' with no metal components. They are completely incinerable or easily compacted to minimize use of precious landfill space.



REAL WORLD EFFICIENCIES

The microfiber media utilized in the TRI-CELL VRC filter offers real world efficiencies of 80-85% and 90-95%. The media packs will not shed media fibers downstream as high loft glass medias are prone to do. The microfiber media is also not susceptible to efficiency degradation as are electrostatically enhanced medias.

The TRI-CELL VRC offers efficiencies that can be trusted to perform as well in real world applications as they do in a test laboratory.

SMART FILTER PORT

The TRI-CELL VRC offers the exclusive and useful 'SMART FILTER PORT' that will assist maintenance personnel in determining when the media packs need changing. This feature allows for convenient and easy testing of the resistance across the filter. Simply remove the plug and insert the hose from a portable magnehelic gauge for instant access to test in-place resistance of any filter.

The SMART FILTER PORT is also useful to take particle counts downstream of the filter bank to verify filter efficiency. This is especially useful when access is limited downstream. Simply remove the plug and insert the particle counter probe for immediate access to the downstream side of the filter bank.



PARTICULATE / GAS PHASE VERSATILITY

The TRI-CELL VRC replacement panel system also offers the ability to respond to either particulate or odor issues (such as diesel odors from a loading dock) as they arise. This feature finally allows for the flexibility needed in real world HVAC systems. The molecular contamination filters are available in either Tri-Sorb™ 300 – which offers over 4 pounds of carbon or the Tri-Sorb™ 600, which equals 8½ pounds of carbon in a 24x24x12 filter.

TECHNICAL SPECIFICATIONS

MEDIA

Glass Microfiber

AVAILABLE EFFICIENCIES

MERV 13 80-85%
MERV 14 90-95%

RESISTANCE TO AIRFLOW

MERV 13 12" Deep
0.48"W.G @ 500 FPM (119 PA @ 2.5m/sec)

MERV 13 15" Deep
0.39"W.G @ 500 FPM (97 PA @ 2.5m/sec)

MERV 14 12" Deep
0.52"W.G @ 500 FPM (129 PA @ 2.5m/sec)

MERV 14 15" Deep
0.44"W.G @ 500 FPM (110 PA @ 2.5m/sec)

RECOMMENDED FINAL RESISTANCE

1.50"W.G. (375 PA)

PERMANENT FRAME CONSTRUCTION

16 Gauge .050-5052 Aluminum

AVAILABLE SIZES (Nominal)

Inches (mm)

24X24X12 (610x610x305)

12X24X12 (305x610x305)

24X24X15 (610x610x381)

12X24X15 (305x610x381)

MEDIA SURFACE AREA

24X24X12 106 sq. ft. (9.85 m²)

24X24X15 147 sq. ft. (13.7 m²)

PLEAT PACK FRAME

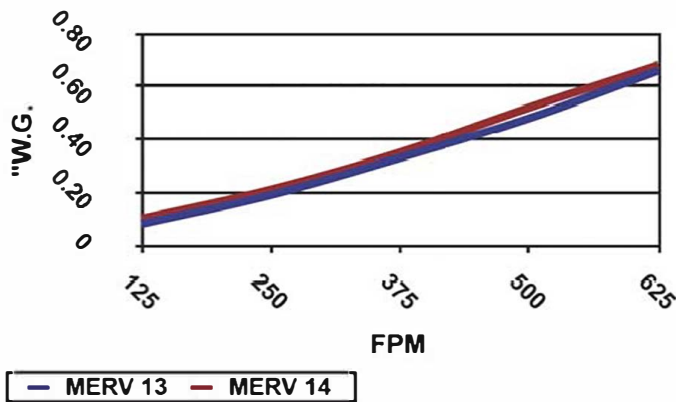
Water Resistant Frame

OPTIONAL CARBON FILTERS

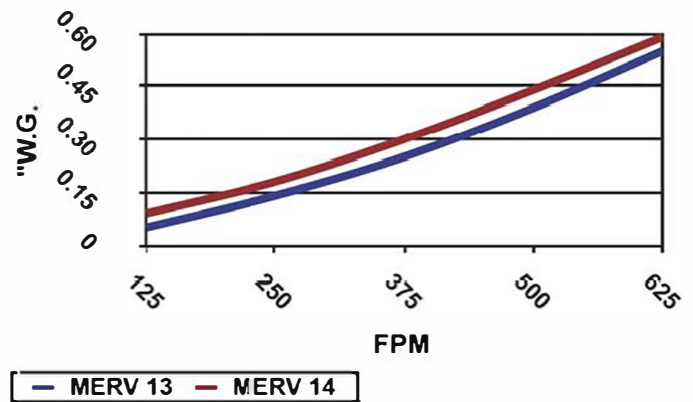
300 grams/sq. ft.

600 grams/sq. ft.

12" Deep Resistance to Airflow



15" Deep Resistance to Airflow



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. Tri-Dim® and Tri-Dek® are Registered Trademarks of Tri-Dim Filter Corporation.



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