



TRI-DIM
FILTER CORPORATION



TRI-CELL™ XLR - RED SERIES

HIGH EFFICIENCY FILTRATION



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FEATURES

- **CERTIFIED** Efficiency
- **Every** Filter Tested
- Efficiency +96% @ 1µm
- Plastic Frame
- No Metal Components (*XLR*)
- Optional Integrated Prefilter
- Replaces 12" Cell Filter
- Reduced Shipping
- Reduced Waste to Landfill
- LEED Points

TRI-CELL XLR RED SERIES

CERTIFIED *High Efficiency Series*

Tri-Dim® Filter's innovative TRI-CELL™ XLR **Red Series** filter offers **CERTIFIED** performance for critical applications. Till now the only choice in **CERTIFIED** performance has been HEPA filtration. HEPA filtration is not practical in all applications and can in fact be overkill. HEPA filtration typically involves expensive retrofits and can place excessive resistance on the fan and add to energy costs.

The TRI-CELL XLR **Red Series** offers certified performance with no expensive retrofits and with minimal

resistance.

The TRI-CELL XLR **Red Series** provides a minimum **CERTIFIED** efficiency of 96.0% at 1 micron.

CERTIFIED means that each individual filter is tested - just like in HEPA filtration - in fact the equipment utilized to perform this test is similar to that used in HEPA testing. This **CERTIFIED** efficiency is measured on particles that are 1 micron in size because this size particle represents the majority of airborne microbials and bioterrorism agents making it the critical target size particle.

The testing of each individual filter is unique to the Red Series from Tri-Dim. No other manufacturer offers this testing.

CERTIFIED Efficiency



CERTIFIED Efficiency - What is it and why do I need it?

CERTIFIED Efficiency is a new and innovative testing method for ASHRAE-rated HVAC Air Filters. Historically filters less than 95% DOP have relied on ASHRAE Testing - typically manufacturers send several filters off to an independent test laboratory and then select the best test result as the 'published' efficiency. Typically these test results are used for the next 5-7 years before the filter is tested again. This may be acceptable in some applications but with the unprecedented demands on filtration in sensitive and critical applications it is no longer adequate nor acceptable.

To solve this dilemma Tri-Dim is the first to offer RED SERIES **CERTIFIED** EFFICIENCY. **CERTIFIED EFFICIENCY means that every filter is tested** (not just one every 5 years). The current concern of bioterrorism, SARS, Bird Flu, pandemic outbreaks and cross infections demands more assurances from today's

filtration products. Tri-Dim's **CERTIFIED** efficiency testing is validating the filters removal efficiency at 1 micron. Particles that are 1 micron in size (and larger) represent the greatest threat for airborne conveyance of contaminants of critical concern.

RED SERIES Product Label contains:

- Tri-Dim's Model Number
- Certified Efficiency Results - expressed up to 3 decimal places
- Rated Initial Resistance
- Nominal Filter Size
- Tri-Dim's Order Number
- Inspector
- Air Flow
- Serial Number - Each filter will receive a unique number
- Basic Information - Product Name, UL Certification, Manufacturer, Manufacturer Address & Phone

To guarantee that each TRI-CELL XLR RED SERIES filter has been tested, each filter receives a label (*see sidebar*) that states the efficiency results of the test and gives each filter a unique Serial Number. This Serial Number will allow Tri-Dim to extract the test results from each individual filter from our database to confirm the filter's **CERTIFIED** efficiency. Tri-Dim's RED SERIES Testing is performed by an advanced test apparatus similar to those utilized to test HEPA filtration products.

You no longer have to accept filters with no assurance as to their actual performance - Tri-Dim's RED SERIES provides you the assurance that it will protect you from today's dangers by achieving the needed efficiency to diminish these dangers.

REPLACES 12" DEEP TRADITIONAL FILTERS

The TRI-CELL XLR **Red Series** offers approximately the same media surface area, resistance, service life and efficiency as conventional 12" cell filters providing an excellent replacement and upgrade option. The XLR benefits from 'Green' design engineering with no metal components, **CERTIFIED** efficiencies, easy disposal, reduced shipping and storage costs.



LIGHTWEIGHT

The TRI-CELL XLR **Red Series** is 65% lighter than conventional cells - this translates into substantial freight savings. It also helps to simplify transporting filters to the air handler - in the picture to the left both stacks of filter(s) weigh 23 pounds.



XLR PREFILTER CUBE

The XLR Prefilter Cube, the optional integrated prefilter, provides the ultimate protection for the XLR media pack by completely sealing the high efficiency media pack with a prefilter - thus eliminating dirty air bypass and the elimination of large particles that can prematurely end the life of high efficiency filters.

Specifications

Efficiency

**Minimum of 96.0%
Removal of 1.0µm**

Also Available in MERV 14, MERV 13 and MERV 11 Efficiencies per ASHRAE 52.2-2007

Initial Resistance

0.57" WG @ 500 FPM

Final Resistance

1.5" WG

Media

Microfiber

Frame

High Impact Polystyrene

Meets ANSI/UL Class 2 Requirements

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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