SUSTAINABLE

# ultra green

MERV 10 REUSABLE FILTER

TRI DIM
FILTER CORPORATION

## COST EFFECTIVE SOLUTIONS

REUSABLE

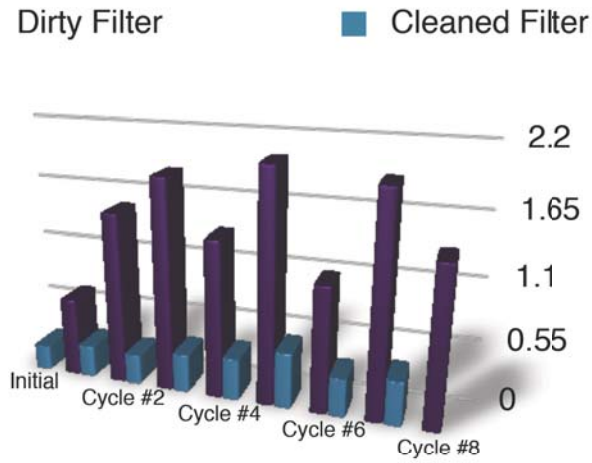
# ultra green Cleanable High Efficiency

## Cleanroom Technology is now available for retail and commercial applications!

**MEDIA** - the unique nano-fiber ULTRA GREEN media offers high efficiency, low resistance and can be used for up to two years (with proper cleaning) - setting the benchmark upon which all filters will be measured as to sustainability.

**EFFICIENCY** The ULTRA GREEN offers MERV 10 performance when tested per ASHRAE 52.2. Repeated testing has verified that the ULTRA GREEN filter will maintain a minimum efficiency of MERV 10 throughout it's life, even after multiple cleaning cycles.

**LOW RESISTANCE** The ULTRA GREEN features low, energy saving resistance - an initial resistance of only 0.21"WG at 2000 CFM - significantly lower (up to 32% less) than filters with similar efficiency ratings. A filter cleaned per the written instructions returns the filter to almost pristine condition as demonstrated in the table below - the resistance returns near to that of a new filter.




**CLEANABLE** The media can also be restored, by cleaning and reusing - for up to two years of use if cleaned by means of the

# ECONOMICAL

suggested cleaning protocol. As you can see from the photo on the right the media can be easily restored into near-pristine condition using the recommended cleaning system.

**GREEN** - The fact that you do not have to purchase filters for two years equates to a reduction of over 87% of waste to the local landfills - not to mention freight, procurement cost, storage and labor savings. Saving money and helping the environment - you get the best of both worlds.

By switching from a MERV 7 pleated filter to the ULTRA GREEN you will remove almost 33 pounds of additional dirt from your HVAC system (for a 50,000 system using data provide by the U.S. Government and ASHRAE) - that is 33 pounds of dirt that will pass through the filter bank and end up inside the HVAC system.

A large portion of this dirt will end up on your coils - and there is plenty of documentation to show that even a small amount of buildup on the coils can have a huge impact on energy, 0.006" buildup can reduce heat transfer by 16% - dirty coils may use as much as 37% more energy than clean coils. This is real energy savings not the hypothetical type savings touted by so many companies.

Let's convert these percentages into dollars so we can see the potential savings - using data from a study by an electric utility a reduction of 193 kWh per ton of HVAC was documented in a large retail store by having clean coils - using a price of $0.10 per kWh the savings potential equals $9,650 per year for 100 ULTRA GREEN filters - or almost $100 per filter.

There are even more savings realized by eliminating coil cleanings - this helps the environment be reducing chemicals and dirty water from the waste treatment system.

This also translates into a reduced carbon footprint, using the same data from the electric utility and a conversion factor provided by the EPA, clean coils equal a reduction of 0.68 tons per year of $CO_2$ per 24x24x2 filter. If we look at reduced transportation, reduced waste to landfill and the energy savings from cleaner coils that could equal a reduction of over 130 tons of $CO_2$ per order of 100 filters. That equals the amount of carbon sequestered annually by 113 acres of forestland.

| Potential CO2 Reductions per order (100 filters) from MERV 7 to ULTRA GREEN | |
|---|---|
| **Reduced Transportation** | 0.19 tons |
| **Reduced Filters to Landfill** | 0.95 tons |
| **Cleaner Coils** | 136.16 tons |
| Total Reduction | **137.30 tons** |
| Per Filter | **1.37 tons** |

DURABLE

# Specifications

**MEDIA** Synthetic

**FRAME** Metal

**RESISTANCE**

0.03" W.G. @ 125 FPM *(7 PA @ 0.64 m/sec)*

0.07" W.G. @ 250 FPM *(17 PA @ 1.27 m/sec)*

0.13" W.G. @ 375 FPM *(32 PA @ 1.91 m/sec)*

0.21" W.G. @ 500 FPM *(52 PA @ 2.54 m/sec)*

0.29" W.G. @ 625 FPM *(72 PA @ 3.18 m/sec)*

**FINAL RESISTANCE** 1.0" WG *(249 PA)*

**EFFICIENCY (Per ASHRAE 52.2)** MERV 10

***MEETS ANSI/UL-900 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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TRI DIM FILTER CORPORATION

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