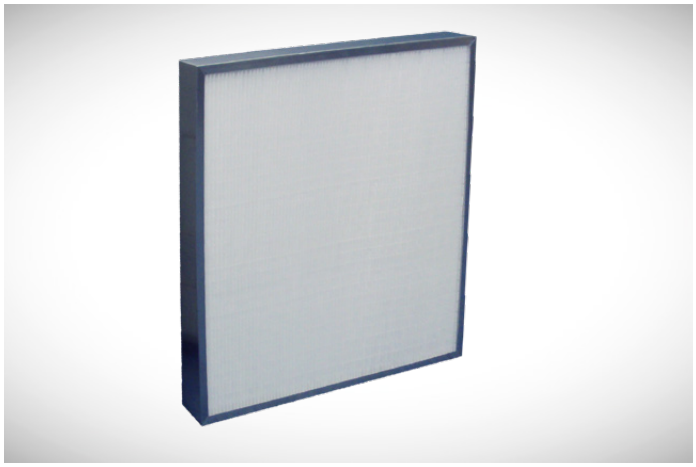
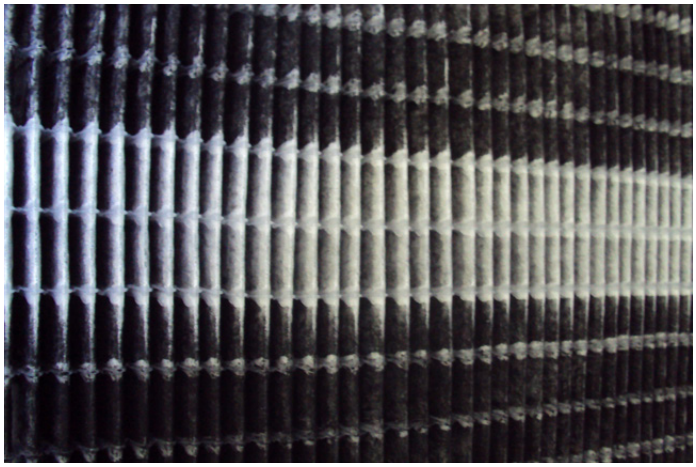
TRIDIM
A MANN+HUMMEL Company

Ultra Green
Cleanable, High Efficiency





Restoring Ultra Green to a pristine condition is a simple process.

MEDIA

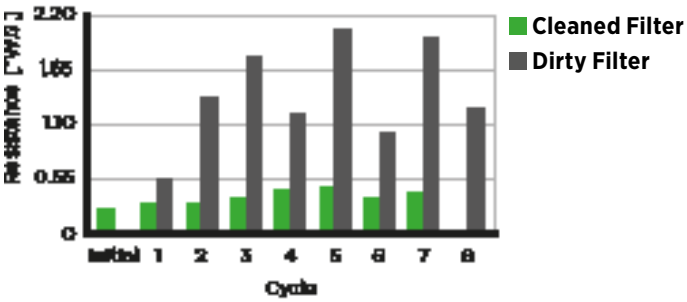
The unique nanofiber Ultra Green media offers high efficiency, low resistance, and can be used for up to two years with proper cleaning—setting the sustainability benchmark upon which all filters will be measured.

EFFICIENCY

Ultra Green provides MERV 10 efficiency (per ASHRAE 52.2), and repeated testing has verified that it will maintain this minimum efficiency throughout it's life—even after multiple cleaning cycles.

RESISTANCE TO AIR FLOW

Cleaned vs. Dirty Filter



Cleanroom technology is now available for retail and commercial applications!

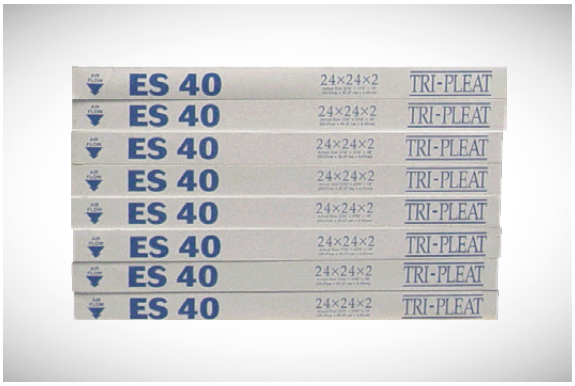
LOW RESISTANCE

Ultra Green features a low, energy-saving resistance of only 0.21 "WG at 2000 CFM—significantly (up to 32%) lower than filters with similar efficiency ratings. Cleaning the Ultra Green according to the instructions will restore the filter to an almost pristine condition, with the resistance returning near to that of a new filter—as demonstrated in the chart below left.

CLEANABLE

The media can be restored by cleaning and reusing for up to two years if maintained by means of the suggested cleaning protocol. As you can see from the photo above the media can be easily restored into near-pristine condition using the recommended cleaning system.

Ultra Green
Economical, ecological



POTENTIAL CO_2 REDUCTION PER ORDER
100 filters, from MERV 7 to Ultra Green

Action	Saving
Reduced transportation	0.19 tons
Fewer filters to landfill	0.95 tons
Cleaner coils	136.16 tons
Total reduction	**137.30 tons**
CO_2 reduction per filter	**1.37 tons**

REDUCED LANDFILL

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.

IMPROVED ENERGY EFFICIENCY

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 onto the inside of the HVAC system.

A large portion of this dirt will end up on your coils, where even a small amount of build-up can have a huge impact on energy. Research has found that just 0.006" of dirt can reduce heat transfer by 16%, with dirty coils using 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.

LESS CHEMICAL WASTE

There are even more savings realized by eliminating coil cleanings. This helps the environment by 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 24 x 24 x 2" 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 forest land.

Ultra Green Technical Data

SPECIFICATIONS

Product	Ultra Green
Media	Synthetic
Frame	Metal
Seal	Perimeter adhesive seal
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 "W.G. *(249 Pa)*
Efficiency (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.

LOCAL REPRESENTATIVE

MANN+HUMMEL

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