

TRI - DIM[®] FILTER CORPORATION
INNOVATION IN AIR FILTRATION



WE ARE AN ENERGY STAR[®] PARTNER,



WHAT DOES IT MEAN?

ENERGY STAR® Partner - so what does it mean?

The recent announcement of Tri-Dim becoming part of ENERGY STAR as an ENERGY STAR Partner has spawned a lot of questions - we will try to answer them here - basically the questions can be summed up into a simple question - so what does becoming an ENERGY STAR Partner mean?

What is ENERGY STAR?

ENERGY STAR is a joint program of the Environmental Protection Agency (EPA) and the Department of Energy (DOE) helping us all save money and protect the environment through energy efficient products and practices. ENERGY STAR certifies homes, commercial and industrial buildings. Commercial buildings and manufacturing plants gain certification by being in the top 25 percent of facilities in the nation for energy performance.

In addition to the certifications ENERGY STAR offers the Portfolio Manager, it is an interactive energy management tool that allows you to track and assess energy usage and water consumption in a secure online environment.



So did ENERGY STAR certify our air filters?

ENERGY STAR does certify products in over 50 categories. Certification is achieved based upon the products ability to use less energy, save money, and help protect the environment. Main product headings include - Appliances, Heating and Cooling, Home Envelope, Home Electronics, Office Equipment, Lighting, Commercial Food Products and Other Commercial Products. It is important to note that ENERGY STAR does not currently have a program for the certification of air filters.

So why the Partnership?

Our partnership with ENERGY STAR is a commitment by Tri-Dim that we as a corporation will reduce our energy consumption - thereby helping to protect and preserve our environment. It is also a commitment that Tri-Dim will use our products, services and training programs as well as the resources provided by ENERGY STAR to help our customers to achieve these same goals. The Partnership with ENERGY STAR also allows us to take advantage of the use of the ENERGY STAR logo - which is an effective marketing tool recognized by over 60% of consumers. But our partnership is more than a logo - it is a commitment to ...

Save money and protect the environment through energy efficient products and practices.

ENERGY STAR® Resources

A lot of us have perceived ENERGY STAR as primarily helping homeowners - but in reality they also offer assistance and resources to building owners and managers as well as manufacturing facilities. ENERGY STAR offers a Strategic Energy Management system, this system is an approach based on the successful energy management practices of over 1,600 commercial and industrial organizations. Additional resources include the Portfolio Manager, product certifications and many more resources which can be found at the ENERGY STAR website - www.energystar.gov.

Energy Savings in HVAC Systems - the basics

Research has documented that energy accounts for approximately 80% of the total life cost of an air filter and when you take into account that this research is several years old this number has certainly increased with the dramatic increase of energy related expenses. Additional studies have documented that HVAC systems account for 30% of the total energy used in the average commercial building.

In the world of air filtration, Energy Savings is most frequently discussed in terms of reduced resistance or pressure drop. Pressure Drop is defined as the resistance of the flow of air through a filter. Resistance is measured in inches of water gauge or in pascals. The simplified theory is that the lower the pressure drop of the filter, the less the HVAC system has to work to push or pull the air through the filters and the quicker the thermostat is satisfied.

This has resulted in a focus to remove filters with a relatively higher pressure drop and replace them with a lower pressure drop filter to realize these potential energy savings. Several different models for calculating Energy Savings have been utilized to approximate energy savings resulting from reduced pressure drop.

We are concerned that many of the Energy Savings calculators currently being utilized appear to grossly exaggerate the potential dollars that can be saved. Tri-Dim has performed 'real world' investigations that have shown dramatic discrepancies. In one particular study the pressure drop was lowered significantly by changing from a 'high' pressure drop filter to a 'low' pressure drop filter. If you take the same data and plug it into one of these Energy Savings calculators the estimated annual savings is in excess of \$2,000 and yet the actual dollar savings was in the neighborhood of \$500 per year. That is quite a difference.

So how can Tri-Dim help achieve your energy goals?

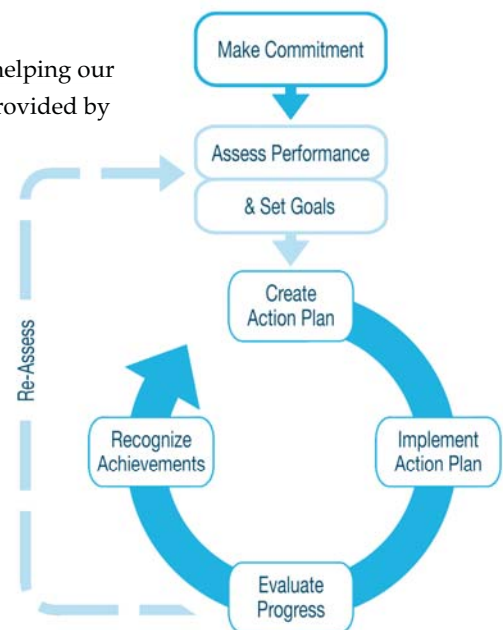
As an ENERGY STAR Partner Tri-Dim Filter Corporation is committed to helping our clients achieve their energy savings goals and will utilize the many tools provided by ENERGY STAR and our innovative line of products and services we offer.

One of the ENERGY STAR tools is the Energy Management Program (see diagram to the right). Tri-Dim can assist in helping you through this process.

Make Commitment - Before any plan or actions can be taken a commitment must be made.

Assess Performance - Tri-Dim can help you identify improvement opportunities through a site assessment.

Set Goals - Tri-Dim will assist you in using ENERGY STAR's Energy Performance Rating System and Delta Score Estimator to help you set your performance goals.



Create and Implement Action Plan - Tri-Dim can help you prioritize opportunities and establish plans to reach your goals. Tri-Dim can also assist in evaluating projects by using ENERGY STAR®'s financial tools and technical resources.

Evaluate Progress - Tri-Dim can help evaluate your progress using ENERGY STAR's Energy Performance Rating System.

Recognize Achievements - Tri-Dim can help document your success and gain recognition from ENERGY STAR - i.e. - ENERGY STAR label for your building, leadership awards, and case studies.

Re-Assess - Tri-Dim can help you reanalyze your goals, review the processes in place and identify your next steps.

Tri-Dim is committed to energy saving products and services, the protection of our environment and these goals have been part of Tri-Dim for over 40 years. Tri-Dim offers a full line of products and services that can be an important part of your energy saving strategy.

Tri-Dim's Research and Development team is committed to bring innovative solutions through new products and services to assist our clients in meeting their Energy and Green Initiative goals. Tri-Dim's 'Environmental Series' of products and services will offer our clients solutions to today's difficult filtration problems with a design and performance focused on today's sustainability goals.



Contact your local Tri-Dim representative for a free site assessment and for assistance in putting together your energy saving strategy.

To save money and protect the environment through energy efficient products and practices.

Tri-Dim Filter Corporation is committed to continual product development – all descriptions, specifications and performance data are subject to change without notice.

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

ENERGY STAR® is a Registered Trademark of ENERGY STAR.



TRI-DIM FILTER CORPORATION
P.O. BOX 466 • 93 INDUSTRIAL DRIVE
LOUISA, VA 23093

(540) 967-2600 • FAX: (540) 967-2835

EMAIL: info@tridim.com • Website: www.tridim.com

TOLL FREE 1-800-458-9835

Local Representation:

100-20

Revision: 11/2008



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