



GothardAssociates.com

KVAR®EC

KVAR®EC - Energy Controllers reduce electrical usage!

**Morse Electric
Westphal & Company, Inc.**

**** Specially Trained & Licensed Electrical Contractors**

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 *Gothard & Associates - Green Earth* asks you to consider the environment before printing.



Gothard & Associates - Green Earth is located in Bellevue, Iowa. We acquired distribution rights for (**KVAR®EC**) KVAR Energy Controllers due to their energy saving, surge protecting, healthy and environmentally friendly characteristics.

Morse Electric, Westphal & Company, Meier Electric and K&M Marshall Electric provide fully trained and licensed electricians to install and support these products. They can install **KVAR®EC** in every application from homes all the way up through Heavy Industrial applications. Together, we provide the latest proven energy saving products to reduce energy costs, reduce carbon emissions and improve our environment.

KVAR®EC improves our environment and personal health while reducing costs. Our company focuses on products that provide a dramatic and positive impact on our environment while reducing your expenses.

The Problem

Up to **30%** of the billable electricity consumed in homes and businesses is non-productive and unusable. Most AC motors operate at **80%** efficiency under a full load ... the efficiency drops dramatically at lower loads. This non-productive energy wastes money and also shortens the life of inductive equipment such as motors, HVAC equipment, pumps and major appliances.

"Over \$16 billion of electricity is unusable energy, but billable in the U.S."

- U.S. Department of Energy

"North America's demand for electricity is expected to increase over the next ten years by 19 percent in the U.S., but confirmed power capacity will increase by only 6 percent."

- North American Electric Reliability Council (NERC)

The Solution



Features of KVAR®EC units include:

- Save 10% (Residential) up to 30% or more on Industrial electric bills.
- Stop paying energy surcharges due to low power factors.
- Surge protects entire business or home.
- Electrical equipment runs cooler, lasts longer.
- All Units Installed by Licensed Electricians.
- UL listed (UL28EP).
- Registered with the U.S. Dept. of Energy.
- **KVAR®EC** Units Have Been In Use over 15 Years.
- The **KVAR®EC** unit has a 25 year life expectancy plus a Five (5) year warranty against workmanship and parts defects.

How KVAR®EC units work:

The **KVAR®EC** unit saves electricity by reducing the amount of power used by inductive equipment. Inductive equipment is any device using a motor to operate. All motors use more electricity than is needed to operate. Electrical engineers call it "non-productive current". That's why motors are hot to the touch....the excessive, unused current is expressed as heat.

- Compressors, Pumps, Large Motors, Florescent Lights
- Refrigerators, Freezers, Air Conditioners, Washers & Dryers

- **KVAR** patented a device and methodology for determining, to an exact science, the amount of capacitance that is needed to optimize inductive motors to unity for maximum savings.
- **KVAR®EC** fine tunes the electrical system from the inductive equipment back through the utility company's KVA electric meter, kilowatt hour meter (kWh) or demand meter. This fine tuning slows down the operation and therefore reduces electrical consumption.
- **KVAR®EC** stores the reactive power to create the electromagnetic field (EMF) around the inductive windings of a motor.
- Reactive power is "pulled" and "pushed" to/from the **KVAR®EC** by the motor at 60 cycles/second as the motor operates.
- **KVAR®EC** stores and releases what the motors need to function more efficiently.
- This unique approach serves to reduce the heat generated on the lines plus reduces the strain placed on all the electrical components.
- The **KVAR®EC** stores and supplies power to all inductive loads.

Installation is quick and the savings immediate.

Frequently Asked Questions

What is Power Factor?

Power factor is the percentage of electricity that's delivered to your house and used effectively, compared to what is wasted. For example, a 1.0 power factor means that all the electricity that's being delivered to your home is being used effectively for its purpose. However, most homes in America today have a .77 power factor or less. This means that 77% of the electricity that is coming thru your meter at your home or business is being used effectively, the other 23% is being wasted by your inductive load. With a low power factor, the utility has to deliver more electricity to do the same work. However, the **KVAR®EC** unit increases that power factor in most cases to .97 or .98, thus increasing the effective use of your electricity and lowering your usage.

Will KVAR®EC harm anything in my home or business such as my computer, back-up generator, solar power or anything?

Absolutely not. Your **KVAR®EC** unit has no negative effect on electrical devices. **KVAR®EC** has a very positive effect on the power source by enhancing the capacity of the power source because less amps and watts are being utilized.

Is the KVAR®EC tested and approved by independent labs?

Yes, the **KVAR®EC** is UL listed and tested, CSA approved, NASA tested, has a level 4 Cleaner and Greener rating, is RoHS compliant and is recognized by the U.S. Department of Energy.

How long will it take for the KVAR®EC to pay for itself?

Generally about 6-12 months, but again, the same factors above apply, some will see sooner (6 months), some will see later (12 months).

Is the KVAR®EC easy to Install?

Installation must be done by a licensed electrician.

How long will the KVAR®EC last?

KVAR®EC units are designed to last approximately 25 years.

Why haven't I heard of this product until now?

That's easy, two words "cost effectiveness". Up until recently, electric rates throughout America were cheap, costing us 2, 3 or 4 cents per kilowatt-hour. Now, electric rates are 9, 10, 12, 14, and 19 and in some cases New York City is 22 cents per Kwh, and Hawaii is 33.5 cents per Kwh. **KVAR®EC** didn't make sense, but at the current rates, it makes all the sense in the world.

What About KVAR®EC for Surge Protection?

The **KVAR®EC** protects the entire business or home against power surges. The unit provides a broad range of protection for motors, compressors, appliances, televisions, satellite equipment and entertainment systems. The unit protects from power line surges as well as spikes caused by internal wiring problems, loose connections and fluctuating demand from large motors such as appliances, vacuum cleaners, heating and cooling equipment, etc.

Is the KVAR®EC Unit Warranted?

[Comprehensive 5-Year KVAR®EC Factory Warranty](#)

Certifications



Proof:

- a. KVAR provides a **money back guarantee on savings.**
- b. City of Ames, Iowa approved KVAR®EC for their Energy Saving Rebate program. Commercial customers receive 50% rebate.
- c. Over **200,000 installations world-wide** reducing electrical usage.
- d. KVAR has been selling these patented products since 1995.
- e. **Department of Energy** has approved this product for their \$10M stimulus Energy Saving and Weatherization program.
- f. Residential units carry **12 year warranty** covering lightning damage!
- g. Surge Protects homes/businesses. Avoiding single claim pays for unit.
- h. Morse Electric/Westphal & Company reviewed and agree it works.
- i. We have independent electrical contractors that do a great job on Residential, Commercial and Industrial installations plus offer ongoing maintenance.
- j. **Home Energy Efficiency Tax Credits** - Consumers who purchase and install energy-efficient products in existing homes can receive a tax credit for 30% of the cost, up to \$1,500, for improvements "placed in service" starting January 1, 2009, through December 31, 2010. See EnergyStar.gov for a complete summary of energy efficiency tax credits.
- k. Santa Clara School of Engineering verified savings and surge protection.
- l. We personally documented 70+ installs during 2008 and all reduced electrical usage.
- m. Customer verified savings thru their own Power Company websites.
- n. Customer verified (10) – 100HP electric motors saved over 65%.
- o. Commercial proposals contain patented spreadsheets showing almost exact savings per panel and motor. These are confirmed upon installation before electricians leave the building. **Customers can verify actual savings during the installation process.**

These products have been proven by many different distributors, many electrical contractors and more than 200,000 units in service. **We verified these results!**



U.S. Green Building Council

Kvar Energy Savings Inc. MEMBER SINCE 2008

THE U.S. GREEN BUILDING COUNCIL IS THE NATION'S FOREMOST COALITION OF LEADERS WORKING TO TRANSFORM THE WAY BUILDINGS AND COMMUNITIES ARE DESIGNED, BUILT AND OPERATED, ENABLING AN ENVIRONMENTALLY AND SOCIALLY RESPONSIBLE, HEALTHY, AND PROSPEROUS ENVIRONMENT THAT IMPROVES THE QUALITY OF LIFE.

Rebecca L. Fiora, Chair

S. Richard Fedrizzi, President, CEO and Founding Chairman

References

Miller Brewing Company Milwaukee, WI 53208 (414) 931-2000
Learning Consultants, Inc. Clayton, Missouri 63144 Corporate Office: 314-963-8900
Advanced Energy Products, LLC Ocala, FL 34474 Office: (352) 370-8031
Golden Eagle Electrical John Turteltaub, San Diego, CA
Palm Plaza Hotel chain Mark E. Applegate, CHA General Manager

MPC Plastics Praire Du Chien, WI	Ind	Saving 32% (\$15,000/mo.)
Morrison Brothers (Foundry)	Ind	Saving 31%
Dittmer Recycling	Comm	Saving 26%
Moracco Supper Club – Dubuque	Comm	Saving 22%
Morrison Brothers (Maquoketa-1)	Comm	Saving 21%
Morrison Brothers (Maquoketa-2)	Comm	Saving 20%
Dupaco (Asbury - Bob Hoefler)	Comm	Saving 20%
Dupaco (Hillcrest - Bob Hoefler)	Comm	Saving 20%
Dupaco (Bob Hoefler)	Home	Saving 20%
Van's Liquor Store (Ron Jantzen)	Comm	Saving 19%
Garry and Jeanne Heiar	Home	Saving 17%
Benders Foods (Bellevue)	Comm	Saving 16%
Nick Heiar – Davenport, Iowa	Home	Saving 16%
Jake Gothard Dubuque, IA	Home	Saving 16%
Walter Rogan - St. Catherine, IA	Home	Saving 13%
Clarion Kane – Fennimore, WI	Home	Saving 11%
Smith, Pat	Home	Saving 8%
Curt & Mary Jo Gothard	Home	Saving 12%
Tim and Annie Heiar	Home	Saving 12%
Wayne Loffelholtz - Platteville, WI	Home	Saving 10.5%
Dan & Susan Jacobs	Home	Installed June 2009
Kurt & Tina Wagner	Home	Installed June 2009
Shawn & Angie Jackson	Home	Installed June 2009
Don & Darla Sieverding	Home	Installed June 2009
John & Carrie Leicht Dubuque, IA	Home	Installed June 2009
Rick & Emily Reeg	Home	Installed July 2009
Berthel Fischer & Co. Maquoketa, IA	Comm	Installed August 2009
John & Angie Long Bellevue, IA	Home	Installed August 2009
Gary & Pat Bonifas	Home	Installed August 2009
Gary & Pat Bonifas	Comm	Installed August 2009

KVAR®EC Warranty

Your KVAR®EC residential panel unit will save a minimum of 8% off your average Kwh consumption over a period of 12 months (compared to 12 months prior to installation) or we will buy it back at full purchase price.

The guarantee is for panel units only and must be properly installed by a licensed electrician in accordance with our installation procedures. During the first 12 months after installation, all things must remain approximately the same as they were for 12 months prior to installation within the home where KVAR®EC is originally installed meaning no major energy consuming additions are made to the building of original installation. This guarantee is given in addition to your Comprehensive 12-year KVAR®EC Factory Warranty.

KVAR®EC 12-Year Residential Factory Warranty

KVAR ENERGY SAVINGS, INC. provides that, if within twelve (12) years from installation date, this product fails due to a defect in material or workmanship or damage by lightning, KVAR will repair or replace the affected unit free of charge.

This warranty does not apply to damage caused by:

- (A) Accidental mishandling, dropping or other types of physical abuse.
- (B) Units opened, taken apart or subjected to unauthorized repair.
- (C) Units not installed or used in accordance with instructions.
- (D) Riots, civil disturbances, war or other related acts of God.

This warranty does not apply to damages claimed in excess of the cost of the installed units, and although this warranty outlines specific legal rights, your actual rights may vary from state to state.