

KVAR: Applying it differently saves at least **5%** off electricity costs

WHAT IT IS KVAR IMC: The KVAR Intelligent Motor Controller (IMC) technology enables the optimization of the Power Factor at specific loads in a facility, instead of only at the Main Service. As a result the amount of energy from the power company required to operate the equipment in the facility is drastically reduced and the electrical system will be nearly 100% efficient. The fine-tuning (power factor correction) reduces heat generation and reduces Amperage resulting in reduced consumption of electricity (KW-hr) by optimizing the Power Factor (PF) of the individual load.



How KVAR IMC WORKS:

The working technology applied by the KVAR unit reclaims, stores and supplies power to inductive motors and loads. All induction loads consume two kinds of power: Reactive Power and Working Power (KW).

The Active Power performs the useful work. The Reactive Power's function is to develop magnetic fields (EMF) ground induction winding. The KVAR Unit works on Power Factor Optimizer Technology to reduce the Reactive load without affecting the EMF. The power reclaimed and recycled by the KVAR Unit would normally be pushed back through the Power Distribution line. As a result of



providing Reactive Power locally motors run cooler and more efficiently. This leads to significant money savings and longer equipment life.

KVAR Unit stores the Reactive Power needed for the creation of EMF within the inductive load. As the motor operates this Reactive Power is pulled and pushed to and from the KVAR Unit by the motor.

ENDORSED BY:



WHAT IS ITS IMPACT:

- Reduces heat and vibration of motors
- Increases power plant capacity
- Reduces power surge of motors
- Ensures smooth start up of motors
- Protects motors from voltage fluctuation
- Increases motor working performance
- Reduces Machinery and motor downtime

ELECTRIC BILL REDUCTIONS CAN EQUAL 5% UP TO AS MUCH AS 12%

Onsite product demonstrations show actual electricity reduction.