



Let Me Try and Help You Understand How the PS1200 Works:

Most residential meters do not measure KVAR they have instead a default power factor built in on 0.88 - 0.91, depending on the utility company. The correction of power-factor in itself does not reduce Kwh consumption, however the action of the capacitors does reduce energy consumption. The basic principle is as follows; inductive loads such as electric motors, pumps and compressors kick back unusable energy into the power system. This unusable energy materializes as heat build-up in appliances, noise on transistor radios and cordless phones, etc. The PS1200 contains capacitors that absorb this unusable energy and recycle it as usable electricity that can be used by electrical appliances, thereby reducing your energy demand from the power company.

Depending upon how much inductive load is present, how often those motors, pumps and compressors cycle on and off and how old or efficient they are will determine the savings available to you.

Another factor is the rate structure of your electric utility, you may be able to save a substantial amount of money on your electric bill. Pay-back period for the PS1200 including installation cost may be as little as six months. Utility rate structures that account for reactive power consumption, by either a KVA or var demand usage, or a power factor penalty are the ones that can provide the greatest pay-back. Other ancillary benefits to be gained by optimizing power factor are, lower energy losses, better voltage regulation and increased system capacity. The unit also provides 2000 joules or surge suppression, similar to many so called "whole home protectors".

This unit should be installed by a licensed electrician. It may be installed outdoors as it comes in a NEMA class 3.4 enclosure. The unit has a simple three wire installation. A status light on the unit lets you know it is working properly.