Power Quality
Reliability
Efficiency

For All Your Power Factor Correction Needs
GE has a comprehensive range of low-voltage capacitors because we know that one kind of capacitor cannot do every job. Thus, we have engineered and developed capacitors for all applications in your facility. Our high quality capacitors are available in a variety of kVAR sizes, both fixed and switched, for indoor and outdoor applications. No matter what your needs, all our capacitors will help you reduce energy consumption while reducing energy costs.

In these days of rapidly escalating energy costs and energy conservation, you need the most efficient power available. GE is your one stop when you are in the market for high quality low-voltage capacitors.

**Type GEM**

Type GEM capacitors feature multiple cells which are assembled in parallel in an enclosure suitable for both indoor and outdoor applications, (NEMA 12 and NEMA 3). Each capacitor cell features the patented GE Pressure Sensitive Interrupter (PSI) that protects against cell rupture. The metallized polypropylene film dielectric provides an instantaneous self-healing action and greatly reduced energy losses. GEM capacitors include discharge resistors to reduce voltage to 50 volts or less within one minute of de-energization. GEM also features time proven DIELEKTROL® impregnant which is a biodegradable Class IIIB combustible fluid. All GEM capacitors are UL Listed and CSA approved. They are available with optional factory installed fuses and blown fuse indicating lights.

GEM capacitors offer high reliability and long life. They are suitable for operation over a temperature range of -40°C to +46°C.

**Type GEMATIC**

The GE GEMATIC multi-step power factor control equipment automatically maintains desired power factor level, adjusting to multiple load requirements in selected kVAR steps. The solid-state control responds to a current signal from customer's current transformer and to a voltage signal from a potential transformer included in the equipment. These are complete packages including:

- Solid state multi-step power factor control
- Digital display of power factor and capacitor stages
- Self healing metallized capacitors
- Contactors
- Potential transformer
- NEMA 1 enclosure (NEMA 3R or NEMA 12 optional)
- Three Fuses for each step (optional blown fuse indicating lights)
- Modular construction easily uprated
- Optional main breaker
- UL Listed.

**Type HWT**

Type HWT equipments are suitable for use on indoor or outdoor primary circuits where kVAR is required. They may be installed at various load centers or directly at the terminals of 2300 and 4000 volt motors. Their heavy duty low loss conventional film dielectric system is designed to handle unusual overvoltages and overcurrents without reducing capacitor life. They are available with optional blown fuse indicating lights. Permissible ambient temperatures are -40°C to +40°C. Discharge resistors in each capacitor reduce voltage to 50 volts or less within 5 minutes of de-energization.

HWT equipments are available with either 2 or 3 fuses per capacitor, and with optional blown fuse indicating lights (120VAC source required for lights.)
Type GEM OFW

These Type GEM capacitors are designed primarily for the motor requirements of oil field and other pumping installations. Their application, however, may be extended to other motor applications installed indoor or outdoor. Type GEM OFW capacitors feature multiple cells which are assembled in parallel in a NEMA 3 enclosure. Each capacitor cell features the patented GE Pressure Sensitive Interrupter (PSI) that protects against cell rupture. The metallized polypropylene film dielectric system provides an instantaneous self-healing action and greatly reduced energy losses.

Discharge resistors are included to reduce voltage to 50 volts or less within one minute of de-energization. A 4 ft., 4-conductor flexible cable is provided for easy installation.

Type GEM capacitors offer high reliability and long life. They are suitable for operation over a temperature range of -40°C to +46°C. GEM also features Dielektrol impregnant which is a biodegradable Class IIIB combustible fluid.

Type EDT/EWT

These film/foil capacitors are typically used to replace PCB type capacitors in existing capacitor equipment and for severe duty environments. They feature the exclusive GE DIELEKTROL non-PCB impregnant, providing an environmentally acceptable substitute for Askarel with equivalent or superior product performance. Their heavy duty low loss conventional film dielectric system is designed to handle unusual overvoltages and overcurrents without reducing capacitor life. They are available with optional blown fuse indicating lights. These capacitors include discharge resistors to reduce voltage to 50 volts or less within one minute of de-energization.

Type FIXED - GEMTRAP

FIXED - GEMTRAP Filter Banks should be considered when power factor correction is desired in a harmonic rich environment. Fixed banks are normally applied near the load(s) that are producing the harmonic distortion. The capacitors are connected in series with the reactor and are tuned to the 4.7th (nominal 5th) harmonic to reduce the more severe 5th harmonic current in systems with large amounts of 6 and 12 pulse non-linear loads present. Equipments for filtering other Harmonic frequencies are available.

Type AUTO-GEMTRAP

GE AUTO-GEMTRAP Filter Banks should be considered when precise power factor correction is desired in a harmonic rich environment. One installation of filter capacitor equipment at the main plant bus, minimizes time and cost as compared to individual fixed filters at the load. The multi-step controller will automatically maintain the desired power factor, adjusting to the system load requirements. The modular design consists of individual steps of capacitors connected in series with a reactor. It also allows for future expansion. Banks are tuned to the 4.7th (nominal 5th) harmonic to reduce the more severe 5th harmonic current in systems with large amounts of 6 and 12 pulse non-linear loads present. Equipments for filtering other Harmonic Frequencies are available.
GE offers other power quality products. For additional information on TVSS, line & load reactors, high voltage capacitor equipment and harmonic solutions, contact your sales representative or the address below.