

**20 MVAR 12.47 KV 6 Stage Automatic Unit****2.4 to 34.5 KV
Metal Enclosed
Power Factor
Correction
Capacitor Banks**

Phaseco, Inc. provides custom designed and built metal enclosed power factor correction capacitor equipment to meet the most demanding requirements of our industrial, large commercial, utility and institutional customers. We work very closely with our customers to insure our design package can be fully integrated into their power system. Our 29 years of experience includes providing a wide variety of custom built automatic and static capacitor assemblies.

Our fully welded Galvannealed steel enclosures are designed for both indoor and outdoor applications as well as extreme environmental areas such as North Slope Alaska. Enclosures are also available in stainless steel and aluminum.

Standard Construction Features Include:

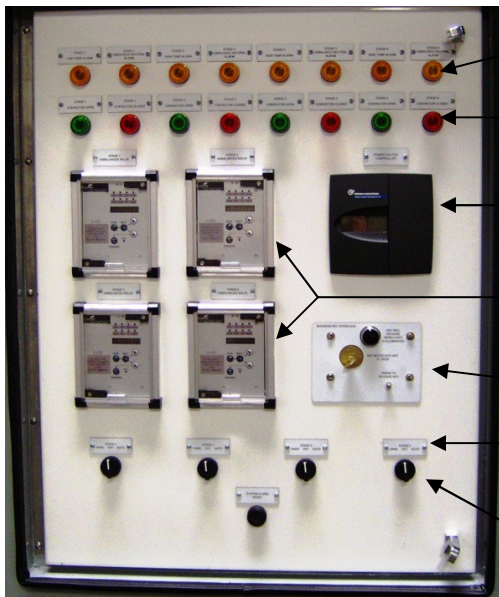
- ✦ All Welded Construction
- ✦ Unitized 4 "C" Channel Base
- ✦ Porcelain Insulators
- ✦ SS Exterior Hardware
- ✦ Continuous Ground Bus
- ✦ 3-Point Latching Doors w/pad lockable handle
- ✦ Silver Plated Copper Bus

**1.2 MVAR 5 KV Static Unit****2.4 MVAR 2 Stage 15 KV
Automatic Unit**

Equipment Features



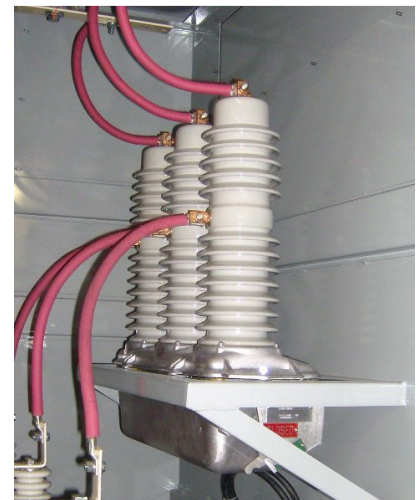
Integrated Control Section for Automatic Control and Protective Relays



- Amber Warning Lights for HI-Temp & Blown Fuse
- RED & GREEN Stage ON/OFF indicating Lights
- Solid State Power Factor Controller. Other optional styles available
- Digital 59N Unbalance Relays for Blown Fuse Indication
- Electrical Solenoid Coordinated Key Interlock
- Engraved Nameplates permanently mounted w/SS screws
- AUTO / OFF / ON switches for each Automatic Stage



Three Phase Vacuum Contactors for Applications up to 5 KV



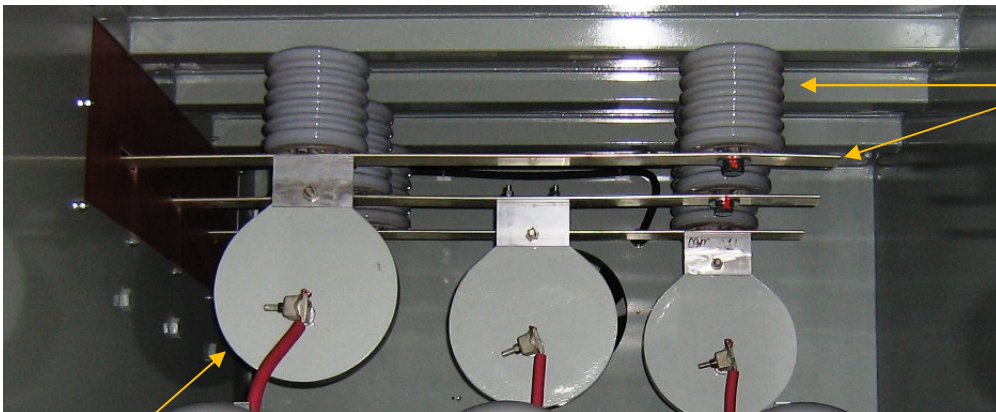
Both Single and Three Phase Vacuum Switches are available for 15-35 KV Applications.

Metal -Enclosed Power Capacitor Banks

Direct Connect full voltage rated individual capacitor fuses with pop-up blown fuse indication



Air Insulated, Load-Break Main Disconnect Switch equipped with current limiting fuses for overall protection. External operation provides the visible break required by the NEC.



Porcelain Insulators and Silver Plated Buss is standard

Transient Inrush Reactors

Multi-stage automatic capacitor banks are provided with air-core, dry-type, single phase transient inrush reactors which reduces the frequency and magnitude of the inrush current resulting from **Back-To-Back** switching

Zero Voltage Closing Controlled Vacuum Switches



OPTIONAL ACCESSORIES

ROOF BUSHINGS TO FACILITATE CONNECTING TO OVER-HEAD BUS IN SUBSTATIONS

DRAW-OUT VACUUM CIRCUIT BREAKER CAN BE PROVIDED FOR OVER-CURRENT PROTECTION AND DISCONNECTING FROM THE POWER SOURCE

DIGITAL POWER METER SUITED FOR MANY POWER AND CONTROL APPLICATIONS CAN BE PROVIDED

ZERO VOLTAGE CLOSING CONTROLLED VACUUM SWITCHES CAN BE PROVIDED TO REDUCE CAPACITOR SWITCHING TRANSIENTS

STAINLESS STEEL & ALUMINUM ENCLOSURES ARE AVAILABLE FOR EXTREME ENVIRONMENTAL APPLICATIONS

REPRESENTATIVE APPLICATIONS



- Wind Farms
- OFF-Shore Drilling
- Refining & Petrochemical



2.4 MVAR 15 KV AUTOMATIC UNIT IN SS 316 ENCLOSURE