



### Expertise

The technical know-how at QVARx is key to the success of our projects. Our expertise is built on R&D, customer focus and feedback, quality management, and the experience of our employees/ associates. The core expertise and business activities at QVARx:

- Medium and High Voltage Capacitor systems
- Power Factor Correction
- Harmonic Filtering
- Power Quality
- Reactive power compensation of large industrial loads and utility power systems
- Related Control Strategies
- Arc Resistant Systems

The principal staff of QVARx, have contributed to over 15 technical papers of IEEE, AISE conferences as well as product standards for IEEE and CSA.

### R&D Innovations

With the support of our key customer base, QVARx continues its role as an industry leader with the success of this technical innovation:

- **The SMC-AR™, Arc resistant capacitor/harmonic filter bank as per IEC and IEEE.**

The use of equipment qualified as arc resistant in accordance with the IEEE and IEC test standards is intended to provide an additional degree of protection to the personnel in close proximity to the equipment while is energized.



**ABB / SABIC**  
**13.8 kV 9 banks x 17 MVAR**  
**Arc-Resistant to IEC and IEEE**



## Product Summary

- Enclosed Capacitor and Harmonic Filter Banks up to 36 kV
  - SMC™ self-ventilated banks
  - LMC™ low maintenance banks
  - **SMC-AR™ certified arc resistant banks, up to 50 kA rating.**
- Open Stack Harmonic Filters and Capacitor Banks 4 kV to 230 kV
- High Voltage Cable Simulators
- High Voltage Control & Protection systems
- Special application capacitor equipment

These products from our industry partners can also be incorporated into the compensation system:

- Small to mid-size dynamic VAR systems
- Active harmonic filters
- Modular Substations

**ABB / Statoil, 24 kV Enclosed Cable Simulator**  
**Modified ISO shipping container**  
**Arc-Resistant to IEC**



## Applications

Systems have been delivered for these applications:

- Utility and Industrial Substations
- Wind-farms and Solar-parks
- Electric Arc Furnaces for steelmaking
- Rectifier loads in electrowinning and electrochemical processes
- Large drives / cyclo-convertors
- Offshore and sub-sea VFD loads
- Mining and heavy industrial loads

**[www.qvarx.com](http://www.qvarx.com) or (450) 530-7786**

**QVARx, a partner of  
Panamerican Energy**

