

## RETVAC Retrofit Circuit Breakers

**Bowers Electricals Ltd.** now offer a range of New Retrofit circuit breakers allowing retrofitting of your existing oil filled switchgear with replacement Vacuum Retvac units.

### Main Advantages of Retrofitting

- Cost savings of 50% to 60% compared with new switchboard.
- Retention of existing fixed housings, cables, relays and instruments.
- Civil Works are not required.
- Down time to upgrade is almost eliminated.
- Negligible risk of fire and explosion giving reduced insurance premiums.
- Low maintenance costs.
- Highly reliable and suitable for frequent switching.
- Improved site "Health and Safety"



### Technical Data

- Rated Volts: Up to 13.8kV.
- Rated Current: Up to 1200 Amps.
- Frequency: 50/60 Hz.
- Rated Short Time Current (3 Secs): 11kV / 20kA, 7kV / 25kA, 3.6kV / 25kA.
- Symmetrical Breaking Current Power Frequency Withstand Voltage: 28kV 1 min
- Impulse Withstand Voltage: 75kVp



Picture showing partially retrofitted  
English Electric OLX Switchboard

### Retrofit units are available for the following:

SWS	C4X, C8X, D4X, D8X, D4XD
Brush	VSI R4/1, VSI R4/2, VBA
Reyrolle	LMT, LM23T, LMT2
GEC	BVRP17
AEI	BVRP4
Ferguson Pailin	VSBP3, VSBP17
English Electric	OLX
Switchgear & Cowans	A4, FA4, UA4, UAE4, UA6
Statter	AC01
Metro Vickers	V2RH1S
Johnson & Phillips	
Crompton Parkinson	ULCI

All of our retrofit vacuum circuit breakers are fully KEMA/BSTS - ASTA Certified to IEC 56 for 12kV 20kA 75kVp BIL and available with hand charge or motor charged spring mechanism options.