

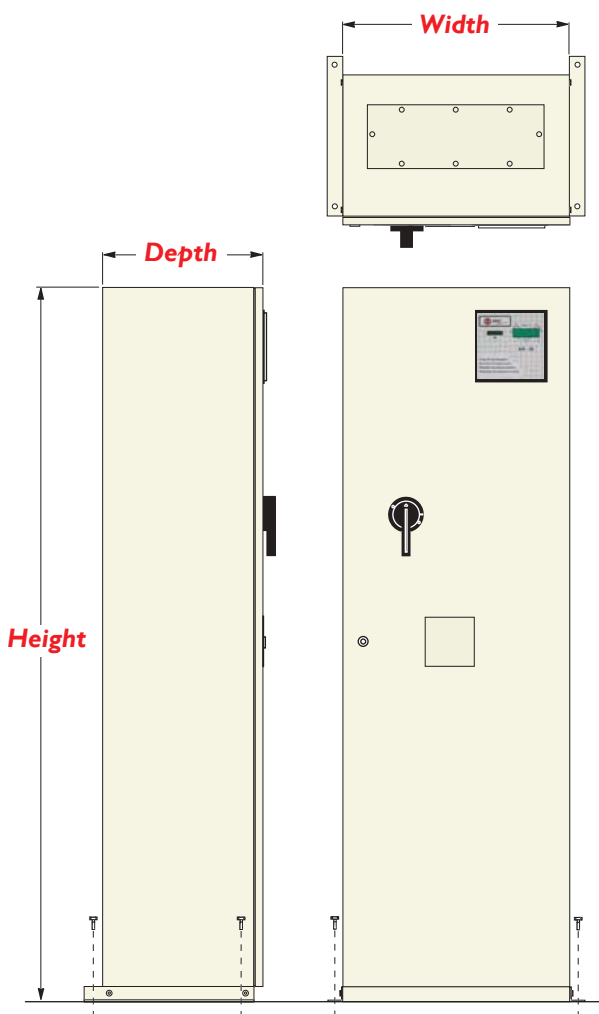
A 324 kVAr, single width, extendible "Vector FS" Automatic Power Factor Correction unit.

- A family of automatic Power Factor Correction units that have a minimal "foot-print"
- Designed to provide maximum kVAr per square metre of floor space
- Flexible modular design

Max kVAr rating	Height	Width	Depth
To 124.6 kVAr	850	600	325
To 259.2 kVAr	1450	600	400
To 388.8 kVAr	1850	600	400
To 518.4 kVAr	2250	600	450

All Dimensions are in millimetres

- Highly reliable, low loss capacitors with self healing properties
- Safety protection system incorporated within each capacitor element
- Internally extendible and maintainable
- Floor standing units for easy installation
- The Vector FS series is ideally situated where floor space is limited
- Soft Switching contactors for minimal system disturbance
- Also available with harmonic blocking or filter reactors
- Multi-stage switching with on/off/auto facility available on the control relay
- Panel mounted on/off/auto switches and indicator lamps available as low cost option
- A suitably rated switch-fuse, circuit-breaker or loadbreak switch is available as an option where required



### Construction

The enclosure is of robust steel construction and is designed for total front access via a hinged door. Top or side cable entry is provided as standard. Bottom cable entry is also available upon request. The unit utilises an SBA type modular equipment tray system. Each equipment tray includes the requisite capacitors, soft switching contactors, auxiliary and control fuses. This system greatly simplifies modification or upgrade.

### Control Gear

The equipment incorporates a special soft switching contactor arrangement to minimise system disturbance which is caused by capacitor switching. For example, a 50kVAr automatic step is controlled by two contactors switching in cascade. These contactors incorporate a pre-connection resistor system which reduces the effect of current inrush, thus reducing system disturbance and increasing product life. 100 Amp circuit fuses are installed to protect each 50kVAr capacitor step and its associated control gear.

### Capacitors

The capacitor unit comprises the requisite number of individual capacitor elements. These elements are manufactured from impregnated metallized polypropylene or metallized paper and plastic film and have a self-healing capacity. Each one incorporates a fail-safe protection device.

### Permissible Overloads

For our standard 400 / 415 Volt capacitor products:

Voltage:	440V	permanently
	484V	8 hours per day
	506V	30 minutes per day
	528V	5 minutes per day
	572V	1 minute per day
Current:	2 x In	continuously @400V

Other products available upon request.

### Permissible Temperature Range

Ambient -40 to +60°C

### Losses

Dielectric loss 0.2 Watts per kVAr  
Total Capacitor losses 0.5 Watts per kVAr

### Discharge Devices

Capacitor terminal voltage reduced to 50 Volts within 1 minute (exceeding BS EN 60831)

### Paint Specification

RAL 7032 (Eurogrey) as standard.

Alternative specifications supplied upon request

### Standards

PFC equipment manufactured to:

VDE 0560 part 41,                      BS EN 60831-1,  
BS EN 61921,                              BS EN 60831-2.

Our policy is one of continuous improvement and we reserve the right to alter any details of design from that shown in this leaflet without prior notice.