

## THE C AND CB TYPE

Static capacitor modules up to 135 kVAr

**Highly reliable, low loss capacitors  
with self-healing properties**

**Safety protection system incorporated  
in each capacitor element**

**Easily extendible and maintainable  
Optional circuit breaker fitted (CB Type)**

**Robust steel enclosure incorporates  
a large terminal chamber to simplify  
installation**

**Strong final connection terminals**

**IP54 option available**

The C and CB Type capacitor modules are designed for local correction of individual loads such as single motors, starters or control gear, where power factor correction is more appropriately located at the source. The CB Series Incorporates an integral Circuit Breaker for independent isolation and overload protection.

### Construction

The capacitor unit is constructed from the required number of individual capacitor elements. These elements are manufactured from impregnated metallized polypropylene and have a self-healing capability. Each element incorporates a fail-safe protection device and discharge resistors.

### OEM C Range

This range is specifically designed for the original equipment manufacturer who wishes to enclose the capacitor units within a switch gear or control gear cubicle. These products incorporate substantial terminals for ease of connection.

The extremely low losses associated with these capacitors minimise heat problems and allow the units to be contained within enclosed cubicles which is of special interest for applications in dusty atmospheres.



*Robust steel enclosure incorporating a large terminal chamber to simplify installation. Picture shows our C Series.*



*One of our CB Series incorporating an integral circuit breaker.*

The Energy  
Solution  
Specialists.

PFC Engineering  
Station Road  
Great Chesterford  
Essex CB10 1NY

t: 01799 530728  
f: 01799 530235  
e: [info@pfc-engineering.com](mailto:info@pfc-engineering.com)  
w: [pfc-engineering.com](http://pfc-engineering.com)

### Permissible Overloads

Rated voltage [V] 50Hz	300	400	440	480	525	615
Over-voltage [V]						
8 hours daily	330	440	484	528	578	677
30 min. daily	345	460	506	552	604	707
5 min. daily	360	480	528	576	630	738
1 min. daily	390	520	572	624	683	800

### Permissible Temperature Range

Ambient  $-40$  to  $+60^{\circ}\text{C}$

### Losses

Dielectric loss 0.2 Watts per kVAr

Total capacitor losses 0.5 Watts per kVAr

### Discharge Devices Fitted

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

### Paint Specification

RAL 7035 as standard.

Alternative specifications supplied upon request.

### Rating

Rating at 415 V, 3-phase, 50 Hz up to 135 kVAr.

PFC Engineering can provide these capacitors to suit the customers required dimensions and ratings.

### Standards

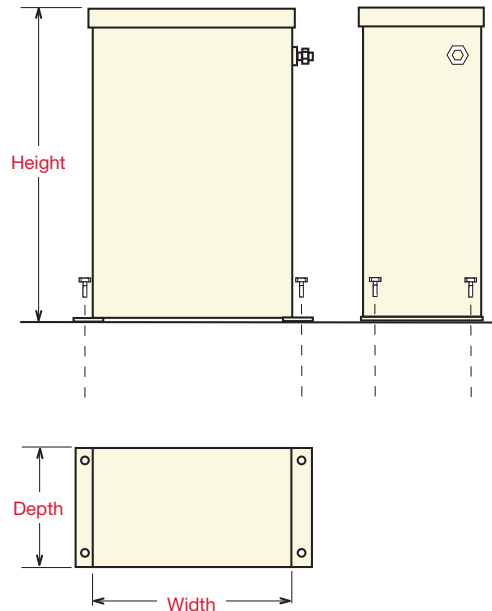
PFC equipment manufactured to:

EN 60831-1

EN 61921

EN 60831-2

### Dimensions



kVAr Rating	Height	Width	Depth
0.16 to 9.7	380	220	110
10.8 to 27	381	220	110
29.7 to 54*	403	305	150
56.7 to 135	410	340	155

\* Unit can be extended to 81 kVAr. Special circumstances apply. All dimensions in millimetres.

The Energy  
Solution  
Specialists.

PFC Engineering  
Station Road  
Great Chesterford  
Essex CB10 1NY

t: 01799 530728  
f: 01799 530235  
e: [info@pfc-engineering.com](mailto:info@pfc-engineering.com)  
w: [pfc-engineering.com](http://pfc-engineering.com)