ABB automatic capacitor banks type APCQ-L provide the ideal power factor correction solution for light industrial and commercial applications.

The customer benefits are:

- Solving utility penalty charges due to low cos φ
- Improving energy efficiency
- Releasing additional capacity or increasing system load without additional equipment
- Increasing service life time of infrastructure

Main features
The capacitor bank APCQ-L characteristics include:

- Powerful and compact
- Easy to install and use thanks to the RVC or RVT controller
- Exceptional reliability and safety thanks to a strict selection of components:
  - QCap capacitor unit, the latest evolution of ABB capacitors
  - RVC or RVT controllers, a reliable and easy interface
  - ABB UA contactor
  - ABB capacitor technology using dry type design
- Built-in thermal protection against overheating

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### Standard and reinforced range

<table>
<thead>
<tr>
<th>Power (kvar)</th>
<th>Regulation (x*kvar)</th>
</tr>
</thead>
<tbody>
<tr>
<td>37.5</td>
<td>12.5 + 25 kvar</td>
</tr>
<tr>
<td>50</td>
<td>12.5 + 12.5 + 25 kvar</td>
</tr>
<tr>
<td>62.5</td>
<td>12.5 + 25 + 25 kvar</td>
</tr>
<tr>
<td>75</td>
<td>25 + 25 + 25 kvar</td>
</tr>
<tr>
<td>87.5</td>
<td>12.5 + 25 + 25 + 25 kvar</td>
</tr>
<tr>
<td>100</td>
<td>25 + 25 + 25 + 25 kvar</td>
</tr>
</tbody>
</table>

### Easy to install and use

The equipment is ready to use, install, operate and service while ensuring exceptional reliability, efficiency and safety.
## Technical specifications

| **Voltage range** | 400V at 50Hz  
For other voltages, please consult us |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Working ambient temperature</strong></td>
<td>-5°C (23°F)/+40°C (104°F) according to EN 61921</td>
</tr>
</tbody>
</table>
| **Installation** | APCQ-L: wall mounted, bottom cable entry  
Clearance lateral : not necessary  
Top and bottom: 200 mm |
| **Connection** | Three-phase, balanced network |
| **Protection** | APCQ-L: IP20 (closed door)  
Optional: IP23 and IP54 |
| **Execution** | Indoor |
| **Color** | Beige RAL 7035 |
| **Dimensions and weight** | 500x290x820 mm (WxDxH) - max 30 kg |
| **Ventilation** | Air forced cooling |
| **Noise** | About 55 dBA (1m) |
| **Power factor setting** | From 0.7 inductive to 0.7 capacitive |
| **Starting current setting (C/k)** | From 0.01A to 3A for the RVC controller  
From 0.01A to 5A for the RVT controller (optional) |
| **Operation** | During operation, RVC (RVT) controller displays:  
- the number of active outputs  
- the inductive or capacitive power factor  
- the alarm conditions; target cos φ, over/undervoltage, THDV, overtemperature  
- the demand for switching on/off a capacitor step |
| **Losses at 400V 50 Hz** | Less than 1.5 Watt/kvar |
| **Capacitors QCap type** | - Dry type self healing according to IEC 60831-1&2  
- Dielectric: 2.15 Un between terminals during 10 sec at rated frequency  
- Acceptable overvoltage: +10% max. intermittently  
- Acceptable overcurrent: +30% permanently  
- Temperature range: -25°C (-13°F)/ class D according to IEC 60831-1&2 |
| **Standards** | EN 61921  
IEC 60831-1&2 (capacitors)  
CE marked |
| **Options** | RVT controller  
Circuit breaker  
Temperature probe (with RVT only)  
Internal plexiglas protection  
IP23 and IP54 enclosure |

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