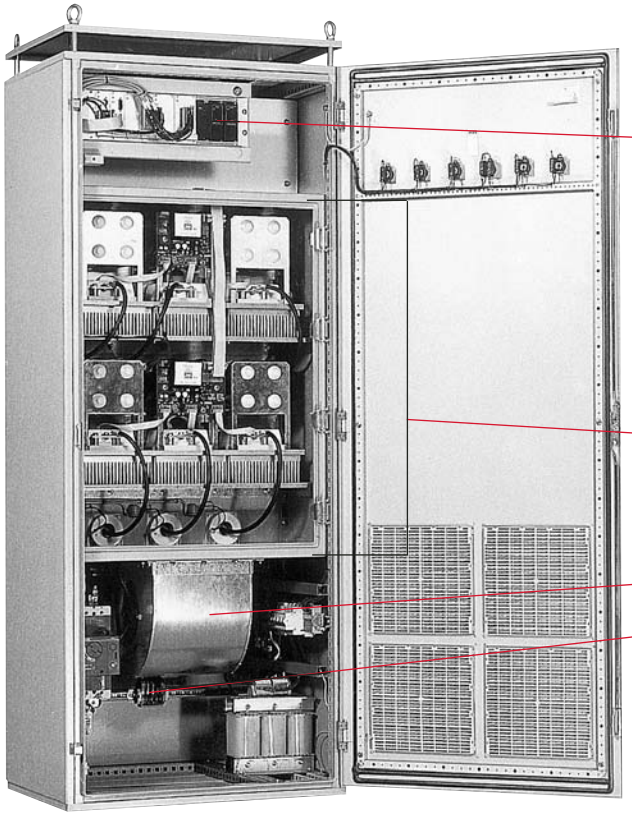

Digital control (DSP)

- Programmable filtering characteristics
- Perfect multi-tuning to selected harmonics
- No overload
- Programmable power factor correction
- Zero-Q filtering capacity
- Programmable task priorities
- Insensitivity to network modifications

Power modules

- PWM converter
- IGBT technology

Forced air cooling

Breakers & auxiliaries

PQFA ratings and capabilities

Power modules for the PQFA are available with voltage ratings up to 600V for 50 or 60 Hz. The maximum thermal rating of the power modules is 225 A rms. Absolute harmonic filtering capability also depends on the content of higher harmonics with the filtering capability following common load spectra. The reactive power compensation capacity per module is given by the thermal rating.

On site extensions are easily made by adding cubicle sections to a maximum of four cubicles. Several PQFA may operate together on the same network.

Systems for 50 Hz and 60 Hz applications can filter 15 different harmonics from the 2nd to the 50th harmonic.

Selected harmonics can be filtered completely, or to a predescribed level defined in absolute or relative terms.

Reactive power compensation may be chosen and controlled to a desired power factor.

The programming is made through an RS232 port using standard PC equipment and software supplied with the PQFA. As an alternative, the programming may be performed with the optional graphic user interface.

Optional graphic user interface

As an option, the PQFA may be equipped with a menu-driven graphic user interface offering direct programming adaptability without using a PC. The device also provides for run-time measurement and control data presented on a backlit 160 x 80 pixel LCD.