

## ACTIVE HARMONIC FILTERS

CAPCONDO active filters save money by improving power quality, increasing process reliability and productivity while contributing to meeting power quality standards.

CAPCONDO active filters are designed for dynamic reactive power compensation and harmonic filtering. They provide an efficient solution for power quality applications in commercial and industrial installations as well as in infrastructures.

The CAPCONDO active filters are a combination of a state-of-the-art controller based on a modern 3-level IGBT-Inverter topology, a 7" touch screen user interface and a modular engineering design for a fast, reliable and compact device that is easy to use and compliant with all standard communication protocols.

### Good energy quality implies:

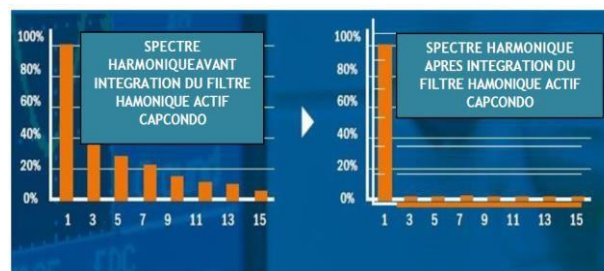
- Energy savings
- Increased productivity in industrial installations.
- Reliable operation of the installation at reduced maintenance costs
- Longer life of electrical and process equipment
- Additional capacity in the existing power grid
- Compliance with IEEE 519, G5/4, IEC 61000 3-2, 3-4 or other power quality standards and recommendations
- Fast return on investment



In addition to effectively canceling harmonic distortions, CAPCONDO active harmonic filters are capable of solving several other power quality problems.

The selective operation mode allows to adapt the functionality of the CAPCONDO active harmonic filter to reach the required performance level. The CAPCONDO active harmonic filters are easily configurable via HMI to improve the power factor by injecting a fundamental reactive power.

Contrary to conventional technologies, real-time response ensures that reactive power is supplied efficiently to fast fluctuating loads such as welding machines and cranes, among others. It ensures the mitigation of voltage variations and flicker. Load unbalance in a three-phase system, such as spot welding, can also be resolved with CAPCONDO active harmonic filters.



## Technical specifications

	A2-35A	A2-50A	A2-100A	A2-150A	A2-200A
Nominal voltage (V)	200V..480V (Automatic adaptation)				
Frequency (Hz)	50Hz or 60Hz (Automatic adaptation)				
Number of input phases	3 phases (+ neutre / 4W) + PE				
Cable input	Bottom / top (Bottom/top)				
Degree of protection	IP 55				
Cooling	Forced ventilation				
Control	Real time digital control with FFT				
HMI	7 " touch screen (1 / installation)				
Topology / switching frequency	3-level NPC / 20 kHz				
Response time	<100µs / 1 Network cycle (Sélectif)				
Harmonic range	1..50 according to standards IEEE 519 and G5/4t)				
Functionality	Reactive power / harmonics / charge balancing (with rated capacity)				
Rated output current	L1...L3: (50A) 100A Neutral (4W): (150A) 300A				
Dimensions WxDxH (mm)	60 x 60 x 180			60 x 60 x 200	
Noise	60dB			64dB	
Operating mode	All harmonics / All harmonics except fundamental / Selective harmonics				
Ambient temperature	0...40°C				
Ambient humidity	max. 85%, non- condensation				
Communications	Ethernet / Modbus TCP				

N.B : Other technical specification is on request.