

Harmonics Mitigation Technique



Specifications	Active Harmonic Filter	Passive Harmonic Filter
Use of Tuned-Detuned Reactor	No	Yes
Resonance Issue	No	Yes
Harmonic Order Attenuation	Any Harmonic up to 50 th Order	Fixed Harmonic only
Size	Small	Large
Weight	Low	High
Humming Sound	Negligible	High
Increase in Current	No Risk	Risk
Risk of Fire/Blast	No Risk	Very High
Harmonic current control	Possible	Cannot Possible
Frequency variation effect	Not affected	Affected
IEEE 519 Harmonic Standard Limits	Satisfied	Unsatisfied
Future Expansion	Possible	Not Possible
Change in Existing APFC Components	Not Required	Required
Cost	High	Medium
Energy Savings	Considerable	Negligible
Live Parameter Monitoring Display	Available	Not available
True Power Factor control	Possible	Not Possible
User Interface	Panel Display & Comm. Port	Not Available

*“Clearing the Path to Power Purity
Active Harmonic Filter for Unmatched Performance”*