Noise Reduction Accessories
To lower noise levels in new or retrofit products

Noise Cover installation in Denmark

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Capacitor bank with Noise Cover for high level of noise reduction

Noise Reduction Accessories – three innovative methods to diminish noise in new or for retrofit products

ABB launches Noise Reduction Accessories for oil impregnated power capacitors
For paucity of space, high voltage equipment is increasingly being installed closer to residential areas creating high levels of noise pollution. Noise reduction accessories for power capacitor units or banks offer an effective solution to help reduce and comply to specific noise restrictions.

Applications
The noise reduction accessories are used for oil impregnated power capacitors. They can be applied for new bank deliveries or as retrofit products. ABB can offer noise reduction accessories from moderate to high levels of sound attenuation.
Noise Damper
Reduction in specified frequency range

Damping element inside the capacitor unit
For capacitors units with well defined harmonic current/voltage contents. The Noise Damper can be combined with the Noise Cover and the Noise Cap solutions

Benefits
- Efficient, tailor made, sound attenuation solution in all applications regardless of bank configuration.
- Tailored for specified harmonic
- The accessory is preassembled from factory and positioned inside the capacitor unit, giving no additional environmental concerns

Noise Cap
High level of noise reduction

Partial enclosure on each capacitor unit
For capacitor banks with a high level of harmonics and located where low sound levels are required. The Noise Cap can be applied as a retrofit product as well as an noise reduction accessory in a new bank delivery.

Benefits
- Can offer noise reduction with low impact on the bank construction
- Possible retrofit solution. Can be added to units in an existing bank, with a few constraints
- The conical seals between the capacitors and the bushings are designed to keep the current creepage distance of the bushings. This makes it suitable as a retrofit product.

Noise Cover
Very high level of noise reduction

A hood covering four capacitor units in one rack level
For capacitor banks with a very high level of harmonics and located where low sound levels are required. The Noise Cover fits in banks with limited numbers of capacitors at each rack level.

Benefits
- Can offer high level of noise reduction
- Easy to access during service and replacement of capacitor units due to pulling-out (drawer) mechanism.
- The conical seals between the encapsulation and the bushings are designed to keep current creepage distance of the bushings.
- Maintenance free casing

For more information please contact:

ABB AB
High Voltage Products
Power Capacitors
SE-771 80 Ludvika, Sweden
Phone: +46 (0)240 78 20 00
Fax: +46 (0)240 78 36 50
Email: capacitors.info@se.abb.com

www.abb.com/powercapacitors