LOW NOISE TRANSFORMERS
25 dB Noise reduction now practical

Transformers play an important role in the process of providing the electricity to homes and industries. During operation, transformers generate internal noise that is radiated outward due to vibration from the core and coil assembly through the tank.

In expanding urban environments and dense city populations, lower noise level demands have become more important due to the close proximity of substations to new neighborhoods. Municipal and state noise ordinances often require noise levels well below the industry standard.

While meeting physical requirements amid economic constraints, energy providers must meet these new and more rigorous noise ordinances: sound power, sound pressure and octave bands.

These new regulations call for transformers that can go unnoticed in quiet residential settings while maintaining outstanding performance and long lives in the energy distribution process. In short, the utility must become a good neighbor in every sense of the word.
Simple and effective measures for noise reduction in Power Transformers

Prolec GE’s Noise reduction technology allows the manufacturing of low noise power transformers that surpass environmental regulations resulting in a smooth installation process.

We understand our customer’s requirements sometimes go beyond the industry standard; our solution meets these rigorous low sound levels without compromising footprint. Some of the simple and effective measures that we have innovated for diminishing noise and vibration in power transformers are:

- Internal sound barriers
- Non-resonant tank
- Low transmissibility acoustic panels
- Vertical cooling
- Low flux density
- Automatic core stacking
- Internal and external anti-vibration pads
- Damped core and coil attachment

Our convenient location in North America allows us to provide short delivery cycle to keep your project running on time and on budget.
Prolec GE has collaborated with US utilities to provide high quality energy while also helping to keep our communities quiet. Some of the latest noise reduction projects are:

- **Autotransformer**
  100 / 133 / 167 MVA, 230 / 115 kV, LTC: 22 dB below standard*
- **Power Transformer**
  50 / 67 / 84 MVA, 230 / 36.5 kV, LTC: 25 dB below standard*
- **Autotransformer**
  134 / 179 / 224 MVA, 230 / 115 kV, LTC: 28 dB below standard*
- **Generator Step Up Transformer**
  75 / 100 / 125 MVA, 230 / 34.5 kV, LTC: 25 dB below standard*
- **Power Transformer**
  72 / 96 / 120 MVA, 230 / 28 kV, LTC: 22 dB below standard*

*NEMA-TR1
Prolec GE contributes to a better environment by manufacturing reliable power transformers with sound levels lower than standard requirements.

Power transformers noise control is taken very seriously at Prolec GE; in fact, we have a dedicated team that continuously develops technology to better enable utilities to provide safe, reliable and environmentally compliant solutions for their customers.

Our Applied Technology Center enables us to develop accurate calculations of noise level of the core versus its flux density as well as load noise, while meeting dimensional constraints. Proven precise calculations on our designs and consecutive units can be tested in our own specialized lab.

Sound control solutions built to fit ergonomic and special noise demands while complying with our customer’s requirements

- Die-stamped panels with a match mark for proper location while simplifying assembly
- Robust design to endure rough weather conditions through service life
- From simple to complex designs to meet stringent noise level requirements
- Internal panels available for harsh environment conditions
- Each design is unique to satisfy audible noise levels as well as electrical and mechanical specifications

Services

Prolec GE can provide the following services:

- Assembly
- Vacuum processing
- Hot oil vacuum filling process
- Field testing
- Technical consulting service
- Spare parts
- Transportation
- Unloading
- Receiving inspection
- Relocation
- Failure investigation
- Field repairs
- Service center
- Condition assessment
- Service maintenance contract
- Training

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