



# LONGO

## LINE TO LOAD

Largest Independent Electrical-Mechanical Sales & Service Firm in the Tri-State Area

# VACUUM PRESSURE IMPREGNATION

with  
**temperflex**®

VPI or Vacuum Pressure Impregnation provides windings with protection against outside contamination and the internal stresses from torque and vibration. The epoxy coating, Temperflex® , is a proprietary epoxy formula designed to meet Longo's engineering specifications. It is neither too brittle nor too soft, but just the right amount of flexibility to allow the winding to stay intact under shock loading (startup) while also rigid enough to provide full protection.

The pressurization forces the epoxy into even the smallest void eliminating the possibility of corona or any moisture or dirt entering the windings which can deteriorate the winding.

The process is a combination of vacuum and pressure with strict controls over time and pressures. After the motor has been rewound with "green" or untreated coils, it is heated and placed into the VPI tank. A dry vacuum cycle of prescribed length is introduced, typically 1-2mm (Hg). The windings are then submerged in the solventless Temperflex® epoxy resin.

The time the vacuum is held is determined by the size of the stator, voltage, and core



parameters. The tank is then pressurized up to 90 psi for a period of time again determined by motor parameters. The result is the epoxy not merely coats the windings, but it is drawn in and pushed into all the voids encasing the windings in a complete protective coating.

*The benefits of the Longo Temperflex® system are:*

*-Increase in the voltage breakdown level (even under water)  
NEMA MG1-20.18.1*

*-Proven water submergence duty system*

*-Increased resistance to winding surges and severe torque generated on startup*

*-Windings remain cooler; efficiency improves*

*-Improved resistance to moisture, dirt and chemicals*

**24  
HOUR  
973-537-0400  
EMERGENCY  
SERVICE**

*Another Longo Advantage!*

Distributor for

**Siemens · Cutler-Hammer · US Motors · Mody · Delta · TECO · BJM · FS Elliot  
Darali · Lenze · Leeson · Ruhrpumpen · AeroVent/Twin City · Burgmann**

**DAILY PICKUP IN THE NORTHEAST**

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