

Magneto Electric

ISO 9002
CERTIFIED

Motor Facts



▲ Vacuum Pressure Impregnation

The Benefits Of Vacuum Pressure Impregnation

▼ Rewinding



As a general rule of thumb, for every 10 degrees that a motor runs over its rated temperature, the life of the motor will be cut in half. A motor's ability to dissipate generated heat into the atmosphere is a part of its calculated efficiency, as well as its effective life span. When a motor is dipped and baked, as is common practice, air is trapped in the winding. Air is a very poor conductor of heat as opposed to a solid mass, which is a good conductor of heat.

Vacuum Pressured Impregnation will remove all air and moisture from the winding prior to impregnation. The vacuum will draw the resin all the way through the winding and then the pressure applied on top of the resin will push the resin all the way into the motor. Once cured, a solid mass is created which is a very good conductor of heat.

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Motor Facts **Continued**



▲ Vacuum Pressure Impregnation



▲ Rewinding



▲ Predictive Maintenance Winding Analysis

Vacuum Pressure Impregnation provides maximum protection of the winding with minimum coverage. Too many coats of insulating resin, or varnish will create a heat jacket around the winding.

Use Vacuum Pressure Impregnation In All:

- medium and high voltage equipment
- direct current equipment
- motors where inverters are the power source
- problem motor applications

Magneto Electric's High Performance VPI Resin Provides Many Advantages

- Not only does it improve the mechanical bond of the winding insulation systems, it improves the electrical characteristics of the winding to 5300 volts per mil dielectric strength and 220 degrees "C" temperature rating.
- Improved inter turn insulation
- Improved resistance to chemicals and moisture
- Windings are made of metal and metal will expand and contract depending on the temperature, Magneto's High Performance Resin will breathe with the windings. Most varnishes and resins will expand with the winding as it gets larger but will not return to its original configuration when it cools down. This is why voids occur in the winding. The High Performance Resin will expand and contract with the winding leaving zero voids for an extended period of time, resulting in no cracks, contamination or degradation of the insulation system.

To get longer life from your electric motors, specify Vacuum Pressure Impregnation on your overhauls or rewind. If you have any questions please call Graeme MacIver

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