



BURNOUT OVEN SPECS:

- **INTERNAL DIMENSIONS OF THE OVEN:**

10ft x 10ft x 10ft and has a oven cart with a total weight capacity of 25,000 LBS, making it one of the largest burnout ovens in Southern Ontario

- **BURNOUT PROCESS:**

The stators are heated to 650-800°F (371-427°C.) and the insulation, varnish, epoxy, paint etc. are removed by pyrolysis - the chemical breakdown of organic materials by the action of heat.

BURNOFF OVEN SOLUTIONS THAT WORK FOR YOUR BUSINESS.

The controlled burnout process is constantly monitored by a chart recorder, recording the motor core temperature and the oven atmospheric temperature as well as the after burner / stack temperature.

The chart recordings are retained for QA purposes and are available to our customers.

This state-of-the-art oven is engineered to burn out windings without compromising the condition of the stator core. Sophisticated controls ensure a perfect burnout with zero pollution to the environment and an after burner to ensure clean exhaust emissions.

**Magneto
Electric**

SERVICE CO. LTD. - SINCE 1946



VPI SPECS:

CAPACITY:

- 9 ft diameter x 9 ft deep chamber + 3 foot extension for rotor/armature shafts

RESIN USED:

- Using P.D. George 433/75 VTC Solvent-less Resin

VPI ADVANTAGES:

- Not only improves the mechanical bond of the winding insulation system, it also improves the electrical characteristics of the winding to 5300 volts per mil dielectric strength and a 220% C temp rating
- Improved inter turn insulation
- Improved resistance to chemicals and moisture
- 2 Year warranty on Magneto rewinds processed in the VPI System

Vacuum Pressure Impregnation (VPI) System

For every 10 degrees a motor runs over its rated temperature, the life of the insulation in that 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. Vacuum pressure impregnation provides maximum protection of the winding with minimum coverage. Too often many coats or multi-dipping of varnish creates a heat jacket around the winding which restricts heat dissipation.

The approximately 4000 gallons of resin is stored in a temperature controlled reservoir where an automatic agitator stirs the resin maintaining it is in good condition. Resin samples are forwarded to P.D. George for analysis each month. The nerve center of the operation is the control panel regulating the vacuum and air pressure, the chart recorder maintains a record of the VPI process. A capacitance meter is connected to the stator winding verifying the level of impregnation.

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