

Vacuum Pressure (VPI) and Vacuum Only (VOI) Systems



HeatTek Inc offers VPI Systems ranging in size from 2'-0" to 12'-0" in diameter. Our typical impregnation systems include the following:

- *Process chambers w/ hydraulically operated door and locking ring. All chambers deigned to ASME code for full vacuum and 100 PSI. All chambers include all pertinent safety devices and interlocks.*
- *We offer bolt – down, davit swing chamber doors for chamber sizes 2'-0" to 6'-0" at a cost savings.*
- *Storage tanks are designed for atmospheric as well as full vacuum service and come complete with an insulated cooling jacket.*
- *High quality vacuum pumping systems.*
- *Integral chiller / circulation pump systems that operate on resin demand.*
- *Low speed agitators that operate via timers and come complete w/ vapor or vacuum seals.*
- *NEMA rated electrical controls and wiring ensuring an operator friendly panel and process.*
- *All systems are factory assembled and tested and include commissioning / training in your facility.*

HeatTek Inc offers a complete line of Options allowing the customer to organize the VPI System to meet both requirement and budget. Options are as follows:

- *Chamber rotor shaft extension, false bottom, liners, and inserts*
- *Micron capable vacuum pumping systems*
- *Plant air drying systems*
- *Chamber integration w/ a Dip Tank (where applicable)*
- *VPI process automation*
- *Resin level sensor interlocks*
- *Paperless VPI Process Recording System w/ Windows based software capable of real time process review on an existing computer.*
- *Capacitance Meter measurement system.*

Quite simply, HeatTek Inc.'s goal for the motor industry is to:

Design, fabricate, install, and service the highest quality VPI Systems meeting or exceeding the customer's requirements.

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Dip Tank Impregnation Systems

HeatTek supplies a Standard and Custom line of tanks

Our Standard Line includes some of the following features;

- Tank sizes range from 3 x 3 x 3 (170 gallons), 4 x 4 x 4 (420 gallons), 5 x 5 x 5 (840 gallons), and 6 x 6 x 6 (1485 gallons)
- Tank construction includes flat bottom, reinforced sides and top rim
- Pneumatically assisted cover and controls
- Meets NFPA Standards for use with resins having a 200°F flashpoint

Our Custom Line includes some of the following features;

- Dip tank can be fabricated in special shapes such as round or rectangular. We can also supply shaft wells or other fixtures
- Tank can include an insulated external cooling jacket with chiller system operating via resin temperature.
- Integration of agitation systems to aid in mixing and /or cooling of the resin
- Addition of tank vacuum capabilities aiding in depth of penetration as well as shortening of cycle times
- HeatTek can supply tanks with ventilation and fire protection systems if required

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