



## TECHNICAL SERVICE BULLETIN

### *PARTS & SERVICE DEPARTMENT*

300 Maddox Simpson Pkwy  
Lebanon, Tennessee 37090  
615-889-8900 Fax: 615-547-1003  
www.Lochinvar.com

*Date:* 11/6/06

*Bulletin Number:* 2006-06T

**TO:** Manufacturers' Representatives, District Sales Managers, Regional Managers, Technical & Customer Service Personnel, Service Agents, Sales & Marketing Personnel

**SUBJECT:** Knight Boilers

In the past few months Lochinvar has been notified of a small number of incidents pertaining to Knight Boilers experiencing burnt resistors on the control board. The resistors in question are located in front of the transformer.

The boards in question were returned to Lochinvar for examination with following results:

- Visual examination indicated the two 511 resistors had shorted.
- Examination under a microscope indicated the appearance of water intrusion on the board, leading to suspicions of water infiltration through the jacket as the cause of failure.
- The boards were sent back to the original vendor to confirm our conclusions.
- Vendor lab testing reenacted the exact failure multiple times by corrupting the board with water.
- Engineering copied the vendor testing in the lab with the same results.
- Technical Service and Engineering visited several sites to finalize the theory regarding the mode of failure. Our visits indicated the presence of residual water or staining at the sites visited.

In an effort to prevent this failure in the future, Engineering is currently adding a strip of weather stripping around the top lid and adding plugs to the access holes located on the lip of the side panel. This should allow the Knight to be more resistant to water intrusion to the controls.

It is recommended that during installation, system filling and purging that the top of the Knight be covered to limit water falling on the unit. If you would like to add the weather stripping and plugs as a cautionary measure to your existing unit(s) please contact Technical Service at 1-800-722-2101.