



## TECHNICAL SERVICE BULLETIN

### *PARTS & SERVICE DEPARTMENT*

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*Date:* 2/27/07

*Bulletin Number:* 2007-01T

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

**SUBJECT:** **POWER FIN FAN PF/PB 501-1300**

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We received reports of isolated installations that had experienced combustion fan failures. A joint investigation between the vendor and Lochinvar was initiated to determine the cause of failure.

After several weeks of field and lab testing, we have isolated the root cause of the problem to the overheating of the resistor used to limit incoming line voltage to the fan during an initial call for heat. Testing revealed that one or more of the following conditions or a combination of the conditions would cause the resistor to fail prematurely:

- High Ambient Temperature.
- Short Cycling.
- High Incoming Line Voltage.

After reviewing the data collected from various testing, and a step-by-step review of the internal circuitry of the fan control board, the vendor has decided to change to an alternate resistor. The new resistor was chosen for its ability to offer resiliency under the harsh conditions described above.

The implementation of the new resistor for use in production units is currently in progress. It is our intention that installations that have experienced multiple combustion fan failures will be provided new fans. All current production and inventory units will be upgraded to fans having the new resistor. The upgraded fans can be identified by either a manufacturer's mark (a round EBM stamp on the blower housing), or by a manufacturing date code of 1207.