



ES Service Information

File In/With: 160.55-M1 (402)
160.55-RP1 (201)

SI0059	
New	02-03

Equipment Affected: YT Chillers

Software Enhancements Effective February 2003

General

Beginning February 2003, an enhanced Flash memory Card will be supplied in all new production YT chillers. These cards are backward compatible to all previous YT chillers and are available from the Baltimore Parts Distribution Center as replacement parts. The enhancements are outlined below.

The versions and part numbers are applied as follows:

- NEMA 1-4 chillers C.MLM.02.04.104 (p/n 031-02004-001)
- CE chillers C.MLM.02.04.203 (p/n 031-02004-002)

Compressor Motor Variable Speed Drive (VSD)

This Flash Memory Card version supports VSD part number 371-03789-xxx (503HP; 60Hz) (419HP; 50Hz). Display messages unique to this drive are displayed appropriately on the screens as follows: Phase A, B and C Baseplate Temperatures are displayed on the VSD DETAILS Screen and Filter Baseplate Temperature is displayed on the FILTER DETAILS Screen.

In addition to standard VSD Cycling messages, the following Cycling shutdown messages apply to this VSD:

“VSD – Low Phase A Inverter Baseplate Temperature”

The chiller has shutdown because the Baseplate temperature has decreased to <37 °F.

“VSD – Low Phase B Inverter Baseplate Temperature”

Same as phase A above.

“VSD – Low Phase C Inverter Baseplate Temperature”

Same as phase A above.

In addition to the standard VSD Safety shutdown messages, the following Safety shutdown messages apply to this VSD:

“VSD – High Phase A Inverter Baseplate Temperature”

The chiller has shutdown because the Baseplate temperature has increased to >158 °F.

“VSD – High Phase B Inverter Baseplate Temperature”

Same as phase A above.

“VSD – High Phase C Inverter Baseplate Temperature”

Same as phase A above.

“Harmonic Filter – High Baseplate Temperature”

The chiller has shutdown because the Baseplate temperature has increased to >194 °F.

Microgateway

In previous Flash Card versions, “Start Inhibit” and “Modified Run” codes were transmitted into “Cycling” and “Safety” shutdown slots in the Microgateway. This alarmed external devices that a Cycling or Safety shutdown has occurred, when in reality, a Start Inhibit such as Anti-recycle or a Modified Run event such as Current Limit is in effect. This was incorrect operation. In this version, the codes are transmitted into the proper slots in the Microgateway.

Previously, remote Leaving Chilled Liquid Temperature setpoints of 1.6 °C to 1.9 °C were not interpreted correctly in metric mode. In this Flash Memory Card version, they are interpreted correctly.

Security Log Screen

In previous Flash Card versions, some setpoint changes were not logged in metric mode. All setpoint changes are now logged.

Trend Screen

Time-of-Day and Elapsed Time text is displayed in selected language. In previous Flash Memory Card versions, it was only displayed in English.

Mod “A” Solid State Starter Applications

In previous Flash Memory Card versions, the Pre-rotation Vanes “Inhibit” current limit command from the Solid State Starter would override the program’s “Close” current limit command that occurs at 104% of the current limit setpoint. This prevented the Pre-rotation Vanes from closing at the 104% current limit threshold.