



ES Service Information

File In/With: 160.55-M1, 160.55-O1
160.55-RP1

SI0090	
New	5-04

Equipment Affected: YT Chillers

Software Enhancements Effective May 2004

General

Beginning May 2004, enhanced software will be supplied in all new production YT chillers. It is backward compatible to all previous YT chillers. The enhancements are outlined below.

The versions and part numbers for 031-01730-000 Microboards are:

- NEMA 1-4 chillers C.MLM.02.06.106 (p/n 031-02004-001)
- CE chillers C.MLM.02.06.205 (p/n 031-02004-002)

The versions and part number for 031-02430-000 Microboards are:

- NEMA 1-4 & CE chillers C.OPT.02.06.303 (p/n 031-02469-001)

High Condenser Pressure Fault While Shutdown

High temperature condenser water flowing through the condenser while the chiller is shutdown can cause a condenser high pressure condition resulting in loss of refrigerant. Therefore, an anticipatory safety fault has been created to annunciate condenser high pressure conditions when the chiller is not running as follows:

While the chiller is stopped, if the condenser pressure exceeds 26.7 PSIA, a safety fault occurs and “Condenser – High Pressure - Stopped” is displayed.

The chiller can be started after the condenser pressure decreases to less than 26.7 PSIA and a special reset procedure is performed as follows:

1. Place the COMPRESSOR switch in the Stop-reset position.
2. At the keypad, login at Service access level using code 1 3 8 0.
3. Select COMPRESSOR screen.
4. Press the FAULT ACKNOWLEDGE key on the COMPRESSOR Screen. A dialog box appears displaying “Enter Password to Clear Fault”.
5. Enter 1 3 9 7 and press the ENTER key (✓).

This anticipatory fault is only performed while the chiller is stopped. If a “Condenser – High Pressure” fault is detected while the chiller is in Pre-lube, System Run or Coastdown, the fault is handled in the normal way and does not require the special reset procedure.

Style B Solid State Starter Faults

The following changes apply to faults detected by the Style B Liquid Cooled Solid State Starter (LCSSS):

Open SCR (Silicon Controlled Rectifier) Fault

When the Solid State Starter initiates a shutdown, the fault data transferred to the Optiview Control Center is a function of the eeprom (U16) in the starter Logic/Trigger Board.

Previously, in starters equipped with eeprom version C.SSS.01.00 through C.SSS.01.02, when an Open SCR fault occurred, the fault data returned from the starter did not identify the phase in which the fault occurred. Therefore, the message displayed by the Optiview Control Center was “LCSSS – OPEN SCR”. New version C.SSS.01.03 eeprom now supplied in the starter Logic/Trigger Board, returns fault data that identifies the phase in which the Open SCR condition is detected.

This Flash Memory Card version interprets this fault data and displays a message that identifies the defective phase. Therefore, when this Flash Memory Card version is used with a starter Logic/Trigger Board equipped with version C.SSS.01.03 (and later) eeprom, “LCSSS – Phase X Open SCR” (X replaced by A, B or C as appropriate) is displayed when the fault occurs.

Start Inhibit Faults

The following Start Inhibit Faults are no longer logged on the History Screen. They will continue to be displayed on the System Details line of the display and transferred to the MicroGateway.

“LCSSS – Phase X Heatsink Temperature – Stopped” (X replaced by A, B or C as appropriate)

Diagnostics Screen

The communications error counters now count up to 65535 (was 255).

Invalid System Details Messages

In previous Flash Memory Card versions, there have certain operating conditions that could cause messages on the System Details line of the display to become “stuck”. The most prevalent one was “Motor – High Current Limit”. This has been corrected in this version.

History Data Storage

The data capture has been modified to assure that all data is that which is valid at the instant of the event.