



ESG Service Information

File In/With:	SJ4 (Behind General Tab)	SI0020	
		New	3-02
Equipment Affected:	YT Chillers Using Optiview Control Center		
Software Enhancements Effective March 2002			

General

Beginning March 2002, an enhanced Flash Memory Card will be supplied in new production YT Nema 1-4 and CE chillers. The new features are outlined below.

The Flash Memory Card versions and part numbers are as follows:

- Nema 1-4 Chillers C.MLM.02.03.100 (031-02004-001)
- CE Chillers C.MLM.02.03.200 (031-02004-002)

These versions are also available from the Baltimore Parts Distribution Center for retrofit to existing chillers.

Record Setpoint Changes

This feature provides a record of the last 75 Setpoint changes. The date and time the Setpoint was changed, the new Setpoint value and the Access Level and User ID used to make the change are stored in the BRAM. The Security Log Screen and the Security Log Details Screen display levels of this information. Both screens are available in Service Access level or higher.

On the Security Log Screen, accessible from the History Screen, the Setpoint, Setpoint Category and new Setpoint value are listed and numbered in reverse order in which they were changed. The most recent is listed as number 1; the next most recent as number 2, etc. A PRINT key allows printing this entire list. Since 15 changes can be displayed at one time, multiple pages could be necessary to display all the changes. PAGE-UP and PAGE-DOWN keys are provided to view the entire list. If it is desired to view the details of a particular Setpoint change, select the Setpoint change number with the LOG ENTRY key and then press the VIEW DETAILS key. This moves to the Security Log details Screen.

The Security Log Details Screen, accessible from the Security Log Screen, displays the following Setpoint change details. The Setpoint is selected from the list on the Security Log Screen as explained in the previous paragraph. A PRINT key is provided to print this information.

- Setpoint Category
- Setpoint
- Date and time of change
- Access Level and User ID used to make the change
- Old Value
- New Value

The following Setpoint changes are not logged:

- Clock Mode
- Custom Screen slot numbers
- Advanced Diagnostics communication port tests
- Advanced Diagnostics secondary multiplexer freeze
- Soft shutdown initiated by operator
- System language
- Display units
- Any Print report
- Cancel any print report
- Schedule clear
- Schedule repeat exception days
- Schedule start and stop times
- Log in/log out
- User attributes for ID, Password and Level
- Trend start/stop
- Trend slot numbers, minimums and maximums
- Trend trigger data
- Trend print mode
- Trend view mode

Leaving Chilled Liquid Temperature Control Sensitivity Setpoint

In addition to the NORMAL and 50% selections provided in previous software versions, a 30% selection has been added to this version. This provides less overall Pre-rotation Vane (PRV) movement than the 50% selection by limiting the longest allowed pulse to 3.5 seconds. This selection can be used when the 50% selection does not reduce the PRV instability to the desired level.

Compressor Motor Variable Speed Drive

- The conditions to produce the “Harmonic Filter – Logic Board or Communications” Cycling shutdown must now be present for 10 communication cycles before a shutdown is performed.
- If either the 50% or 30% Leaving Chilled Liquid Temperature SENSITIVITY Setpoint is selected, Pre-rotation Vane movement is further reduced when the chiller is operating at low load. When the Vane position is less than 25% and Leaving Chilled Liquid Temperature is within + 2.5 °F of Setpoint, the maximum Vane pulse is limited to 3.5 seconds at 25% position and 0.9 seconds at 0% position. Vane positions in between have linearly scaled maximums.
- In previous Flash Memory Card versions, the SET FREQUENCY Setpoint feature on the VSD Tuning Screen did not correctly set the desired frequency in 50Hz applications. This is corrected in this version.
- Harmonic Filter Currents are now correctly displayed at maximum values.

History

Chiller Run Time is now included on History Details display and print.

Hot Gas Bypass

The Hot Gas Valve position is now animated on the Hot gas Bypass Screen.