



File in 2SAM Manual

**SERVICE BULLETIN**

Supersedes: Nothing

399

Form: 155.17-02 (SB5)

File with Forms: 155.17-02

Subject: Microcomputer Control Center (Paraflow Absorption) -  
Eprom Version A.01F.12

On/about March 1999, Paraflow Absorption Units will be shipped with eprom version A.01F.12 (P/N 031-01169-002). This eprom has the following enhancements that revise Operation Manual 155.17-02 as follows:

**LEAVING CHILLED WATER TEMP SETPOINT**

In previous eprom versions, the lowest allowed setpoint was 42.0° F. In this eprom version, the lowest allowed setpoint is 41.0° F.

**LOW WATER TEMP SHUTDOWN THRESHOLD**

The Low Water Temp (LWT) shutdown threshold is no longer fixed at 3° F below the Leaving Chilled Water Temp (LCWT) Setpoint. It is now as follows:

<u>LCWT Setpoint</u>	<u>LWT Shutdown</u>
≥ 43.0° F	3° F below LCWT Setpoint
42.0 to 43.0° F	40.0° F
41.0 to 41.9° F	39.0° F

**CRYSTALLIZATION LOCKOUT MESSAGES**

Previously, if the unit attempted to restart or initiate a Dilution Cycle after a Pump Overload, Low Refrigerant Temp, Flow Switch or Power failure shutdown and the Solution Dilution temperature had cooled to <136° F while the unit was shutdown, it was assumed the unit had crystallized and a status message appended with "CHK SOL'N LVL-ABS & GEN" was displayed. The Dilution cycle or restart was inhibited until it was determined crystallization had not occurred and a special reset procedure was performed.

However, in actual operation, crystallization will not occur unless the Solution Dilution temperature reached 136° F while the unit was running prior to the shutdown.

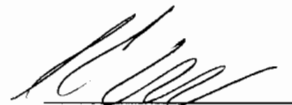
Therefore, to eliminate false crystallization lockouts, the “CHK SOL’N LVL-ABS & GEN” message and associated lockout will only occur if the Solution Dilution temperature reached 136° F while the unit was running prior to shutting down on Pump Overload, Low Refrigerant Temp, Flow switch or Power Failure.

### **DISPLAY DATA KEY MESSAGE ROTATION**

Previously, the “Percent Loading” message for either Direct Fired or Steam units was the third message in the rotation of scrolling. For convenience during troubleshooting, this message is now first in rotation.

### **PUMP OVERLOAD SHUTDOWNS - “S” UNITS, HEATING MODE**

On direct fired “S” series low temp (Program Jumper JP2 removed) units, the Refrigerant and Solution pumps run during HEATING ONLY mode. In previous eprom versions, Pump Overload conditions were ignored, allowing the unit to run without all pumps. In this version, if a Pump Overload occurs, a Safety shutdown is performed. If the Pump Thermals or Overloads reset, a standard 10 minute Dilution is performed. However, if the Overloads trip again during this Dilution, the Dilution is terminated and no further Dilution activity occurs during this shutdown. After the Pump Overloads are reset, the unit can be started by moving the Keypad rocker switch to STOP/RESET and then to START.



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