

SERVICE BULLETIN

94-10

Supersedes: Nothing

394

Form 155.17-02 (SB-1)

File with Form: 155.17-02

**SUBJECT: MICROCOMPUTER CONTROL CENTER
(PARAFLOW ABSORPTION UNITS)
OPERATION MANUAL UPDATE-EPROM VERSION A.01F.06**

On/about January 1994, ParaFlow Absorption Units will be shipped with the subject EPROM. It supersedes Version A.01S.05 and A.01F.05. It contains the following enhancements that revise Operation Manual 155.17-02 as follows:

"CHK SOL'N LEVEL" TYPE MESSAGES

In addition to pressing the "WARNING RESET" Key in **SERVICE MODE**, the "UNIT SWITCH" must be placed in the **STOP-RESET** position before the unit can be restarted when shutdown on any of the following messages:

"DAY-TIME-PO-CHK SOL'N LEVEL-ABS & GEN"
"DAY-TIME-LRT-CHK SOL'N LEVEL-ABS & GEN"
"DAY-TIME-FLS-CHK SOL'N LEVEL-ABS & GEN"
"DAY-TIME-PF-CHK SOL'N LEVEL-ABS & GEN"

DILUTION

The Analog Low Refrigerant Temp Safety Shutdown will now suspend the Dilution Cycle. Also, if a Dilution Cycle is in progress and an analog LRT Safety Shutdown occurs (Refrigerant Temp decreases to < 39.1°F) the Dilution Cycle is terminated. It will be allowed to continue if the Refrigerant Temp increases to > 44.0°F.

If the solution temperature is < 91°F at the instant of unit shutdown, the Dilution Cycle will be performed for 30 minutes and then terminated.

FAX-4500 EMS OPERATION

When the Control Center is in "REMOTE MODE" configured for FAX-4500 EMS Operation (Micro Board Program Jumper J56 in "EMS" Position and J58 in "RS-485" Position), the "**DAILY SCHEDULE**" and "**PULLDOWN DEMAND**" features are not operational.

MAXIMUM ALLOWED LOADING

The Service Engineer can now program a maximum allowed loading setpoint range of 40-100% for both cooling and heating mode. Previously, it was 50-100%.

LOW WATER TEMP SHUTDOWN THRESHOLD

If the leaving chilled water temp setpoint is increased while the unit is running, the shutdown threshold remains the same as the previous threshold for 30 minutes to eliminate nuisance trips.

GERMAN LANGUAGE MESSAGES

If Program Jumper J12 on I/O EXPANSION BOARD is removed, all messages are displayed in German language.

S-SERIES ABSORPTION UNIT

When the S-Series Absorption Unit is equipped with the Low Temperature Heat Exchanger and operating in HEATING ONLY mode, Micro Board Program Jumper "JP2" must be removed. This causes the refrigerant, solution and spray solution pumps to run while the unit is operating. The operation sequence is as follows:

When the start sequence begins, the hot water pump is turned on and the Start Signal is sent to the burner. A 30 second bypass is begun to allow the hot water flow switch to close. After a 30-90 second delay, the 'BURNER ON' contacts between terminals 38 and 39 close to signal the control center. Coincident with the "BURNER ON" contacts closing, the refrigerant, solution and spray solution pumps are turned on and "SYSTEM RUN-LEAVING HOT WATER CONTROL" is displayed. When system shutdown occurs, all pumps shutoff coincident with the removal of the Start Signal.

HIGH HOT WATER TEMP SHUTDOWN THRESHOLD

If the leaving hot water temp setpoint is decreased while the unit is running, the "HIGH WATER TEMP" shutdown threshold becomes 155°F (Standard Hot Water Heat Exchanger-JP5 In) or 175°F (High Temp Hot Water Heat Exchanger - JP5 Out) for 30 minutes to eliminate nuisance trips.



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