



SERVICE BULLETIN

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Supersedes: Nothing

Form 160.49-M2 (SB18) (698)

File With 160.49-M2

Subject: Microcomputer Control Center (YK Centrifugal Chiller) -
Eprom Version C.02F.18

On/about June 1998, the subject units will be shipped with eprom version C.02F.18 (P/N 031-01431-002). This eprom contains the following enhancements that revise Service Manual 160.49-M2 as follows:

PROXIMITY PROBE SAFETY SHUTDOWN THRESHOLD

In previous eprom versions, when the Proximity distance exceeded the lower safety threshold (-25mils from reference position), a safety shutdown was instantly initiated and "DAY-TIME PROX SENSOR SAFETY SHUTDOWN" displayed. To reduce sensitivity to RFI/EMI noise, the lower threshold must now be exceeded for 2 continuous seconds. The upper safety threshold of +10 mils remains unchanged; it is still acted upon immediately.

OIL PUMP VSD OPERATION

The safety shutdown threshold for the message "DAY-TIME-HIGH OIL FLOW" has been changed from 40.0 PSID to 35.0 PSID. This was necessary to accommodate the higher flow rates of the new shaft seal.

SERVICE KEYS - MANUAL CONTROL SELECTION

The prompt message that is used to assign manual control of the Vanes, Refrigerant Level Control or Oil Pump Variable Speed Drive to the Vanes Service keys has been modified. This prompt message is one of the scrolled messages of the OPTION key accessed by Access Code 4 2 6 8. This prompt message now reflects only those features that have been "Enabled" using the respective Enable procedure. The Level Control Enable procedure is detailed in Service Bulletin 160.49-M2(SB9). The Oil Pump VSD Enable

procedure is detailed in Service Bulletin 160.49-M2 (SB14). The prompt messages are now as follows:

If both the Level Control and Oil Pump VSD operation are Enabled, the following is displayed:

“MANUAL CONTROL = X (0=VANES,1=LVL,2=OP)”

If only the Level Control operation is Enabled, the following is displayed;

“MANUAL CONTROL = X (0=VANES,1=LVL)”

If only the Oil Pump VSD operation is Enabled, the following is displayed:

“MANUAL CONTROL = X (0=VANES,2=OP)”

If neither the Level Control nor the Oil Pump VSD operation has been enabled:

No prompt message is displayed, since none is necessary. The Vanes are the only component that can be manually controlled with the Vanes Service keys.



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