



**UNITED
TECHNOLOGIES
CARRIER**

Commercial Division
Carrier Corporation

BULLETIN: CA-SB-19-D-67-37

DATE: 6/8/67

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SERVICE BULLETIN

SUBJECT:

USING REFRIGERANT PUMP TO GET CORRECT SIGHT GLASS READINGS

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PURPOSE: To forward information helpful in accurately determining the liquid level in the cooler.

**MACHINES
AFFECTED:** 19D21 and 19D31 machines.

PROCEDURE: The 1/16" vent hole in the float chamber equalizer valve on subject machines is located on top of the valve and does not allow the refrigerant level in the float chamber to fall lower than the height of this hole. If the cooler level is lower than the level of the height of the 1/16" hole, the sight glass reading may be higher than the actual level in the cooler (See Figure 1). The refrigerant pump can be operated manually to pull the float chamber level down below the 1/16" hole allowing the float chamber and cooler levels to equalize through the equalizer check valve. The difference in head between cooler and float box levels will open the check valve. The refrigerant pump can only pull down the float chamber to the corresponding cooler level. If the cooler level is below the equalizer check valve the float chamber will pump out completely and no refrigerant will return to the float chamber after the refrigerant pump is shut down.

In some instances it is desirable to make a quick shutdown in order to make a fast check of refrigerant level and put the machine back on the line immediately. This can be accomplished more rapidly by operating the refrigerant pump manually to pull the float chamber level down instead of waiting for the level to equalize through the 1/16" hole.

In summary, the refrigerant pump should be operated for a minute or two prior to checking the sight glass in order to erase any doubts as to the actual cooler level.

CAUTION: DO NOT RUN THE REFRIGERANT PUMP DRY.

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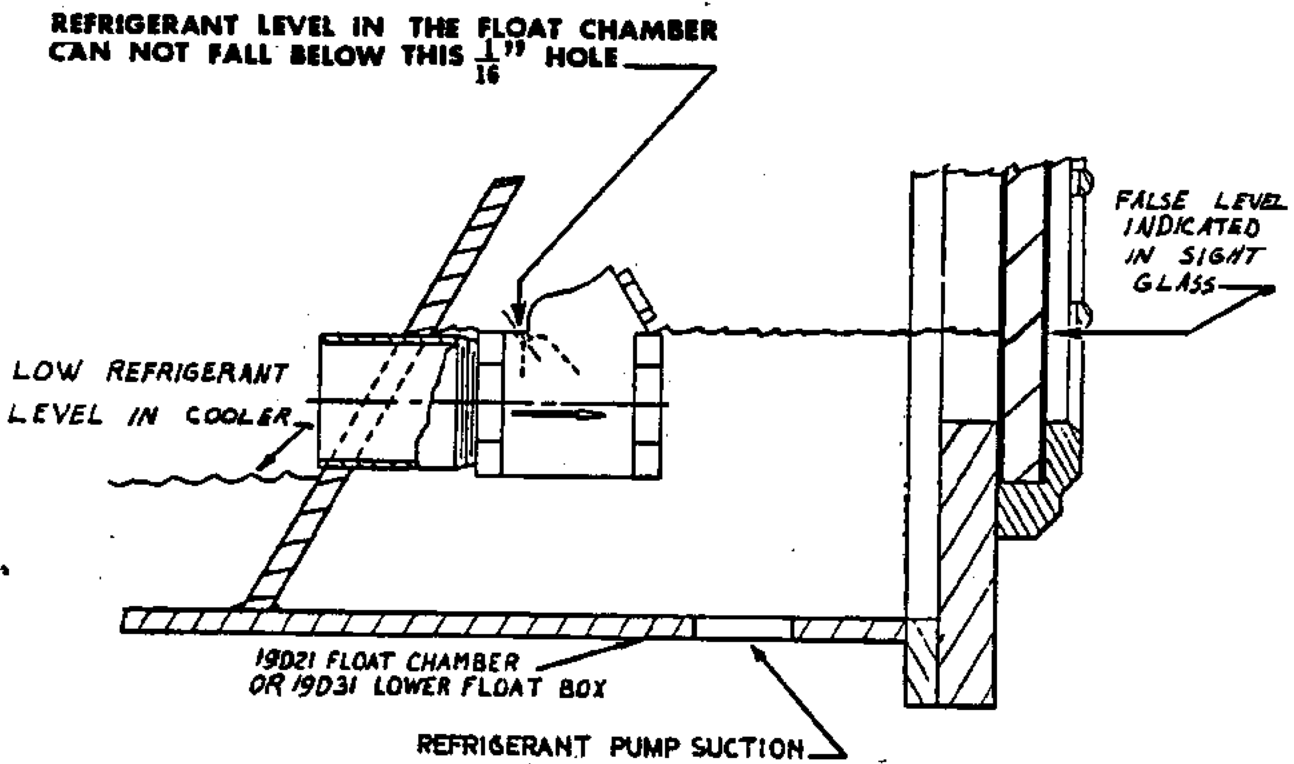


FIGURE 1