

|            |                           |        |         |      |
|------------|---------------------------|--------|---------|------|
| Title:     | DF Evaporator Temperature |        |         | ID:  |
|            |                           |        |         | 0365 |
| Date in:   | Response:                 | Model: | Author: |      |
| 2011-02-25 | 2011-02-25                |        | CMa     |      |

## Q:

On Friday, I spoke with Steve in regards to the behavior of the Liconic chamber after work was done on it. Last Friday, the chamber was working properly. We decided it would be beneficial to leave the chamber running over the long weekend and on Tuesday the chamber was also working properly. would like to clarify in that what I mean by "working properly" is that the chamber temperature was stable at -20 C. However, when I last spoke with Steve he indicated that the chamber temperature reading and the evaporator temperature should be very similar, which is not the case. I am not sure if that is something that needs to be discussed. Here are the values from Friday, Tuesday, and Today:

Friday, (2/18/2011)

Temperature = -20 C  
RH = 8.54  
Evaporator Temp = -20 C

Tuesday, (2/22/2011)

Temperature = -20 C  
RH = 8.48  
Evaporator Temp = -32 C

Thursday, (2/24/2011)

Temperature = -20 C  
RH = 10.9  
Evaporator Temp = -27 C

Hope this helps.

## A:

All good values. The evap. temp. should be similar when cooling done only. After reaching the target temp. the evap. needs to become colder because it is then drying.