

Psychrometric Analysis Lab

The Psychrometric Lab was generated from an AAON sponsored mechanical engineering senior design project. This particular lab is focused on learning and using the psychrometric chart along with sling psychrometers as shown in Figure 1 and infrared thermometers as shown in Figure 2. The MET 466 students are able to plot room conditions to anticipate when condensation will occur on the floor of the testing room and then observe the condensation appearing on the floor.



Figure 1: Sling Psychrometer



Figure 2: Infrared Thermometer

Testing:

The Psychrometric Analysis Lab's testing is conducted in the indoor room of Montana State University HVAC lab's psychrometric chambers. In this room the heat and steam are controlled so that condensation appears on the floor of the chamber twice for observation as shown in Figure 3.

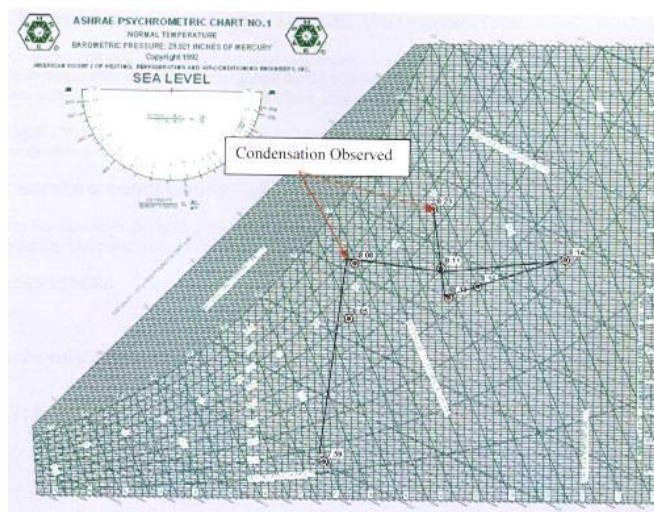


Figure 3: Plotted Process on Psychrometric Chart