

Instrument Procedure: Moisture Balance

Description

The moisture content tested used a Denver IR-60 Moisture Analyzer as shown in Figure 1. This is a moisture analyzer that can liberate moisture through infrared heat, and thus showing the moisture percentage of solid material.



Figure 1: Moisture Balance

Procedure

To test the moisture content of biomass, complete the following steps.

1. Randomly pick some pieces of biomass and grind them into finer particles.
2. Put approximately 5 g sample on the sample pan and put the pan on the balance.
3. Close the top lid on the balance and turn it on to start analyzing moisture.
4. Wait until the analyzing finished then record the result from the display.
5. Randomly pick some other pieces of biomass and repeat the above four procedures four more times.
6. Take the averaged results from the repeated tests as final result.