

Leaf Theory

- Subtract 8 from R_{tot}
- Radiation ($E=1$ is good for fire, but not for surface)
 - Underestimates? resistance
- Convection and radiation on resistances in parallel.
- Need to better define what $T_{dehydrator}$ and T_{out} are when presenting the data
- T_{out} is lower than the box temperature.
 - Explain why
 - Where is the energy going?

Water Theory

- Need to calculate theoretical head loss in the new system
- h is convection coefficient (W/m^2K)
- k is conduction coefficient (W/mK)
- h_2 (technically k) is closer to 0. Thermal resistance through wall is small
- h_4 is only one that will change as a function of temperature
- MAKE A NOTE DIFFERENTIATING THEORETICAL AND EXPERIMENTAL U
- can significantly help by preheating incoming water
- m_{dot} could be too high (so we need to reduce marginal value in ER)
- find biggest resistance (probably air to bar)
 - use this to then add supplemental fins

Leaf Design

- Need an assembly drawing
- REDUCE DECIMAL PLACES
- Need modifiable design (like adjusting chimney height)
 - add attachments during test
- What are pipe dimensions???
 - 1" pipe can be fine, just leave both sides open
 - it will go into the box, not out the other end of the pipe
 - this will allow us to avoid 2" pipe

Water Design

- Possibly use vertical thermostat so cold water sinks?
 - What are components in steel? Are they hazardous?
 - What happens if thermostat has rust blockage and is propped open?
 - Talk to Hans Peter Schmidt about material costs and pipe sizes
 - Re-evaluate bleed capabilities
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- Put Drawing Titles on EDGE