



Wiki Lampao, Thailand

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Folder Folders / Nano Solex / Energy Enthalpyand Exergy

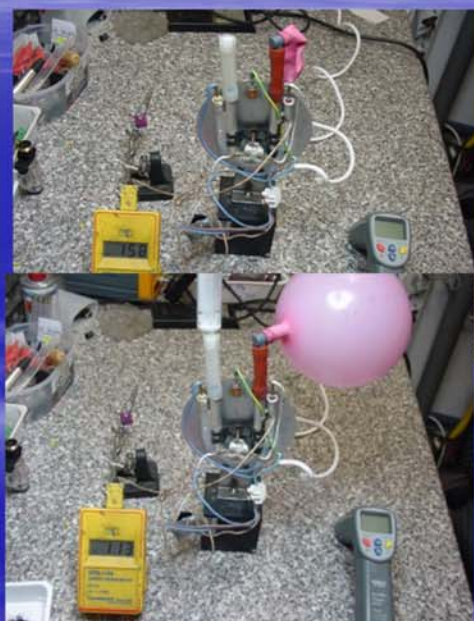
Energy is the basic budget.

First: Teach the students: What is Enthalpy



The Enthalpy experiment

- Right: Heating bottom of a coffee cooker
- Baloon: The Enthalpy test experiment.
- Put ca 1ccm water into the heater and let it evaporize (400 W).
- Look how many steam this produces!
- (Sepp Lumper)



See it live



<http://www.youtube.com/watch?v=mjcEpT8fUm4&feature=youtu.be>

Explanation



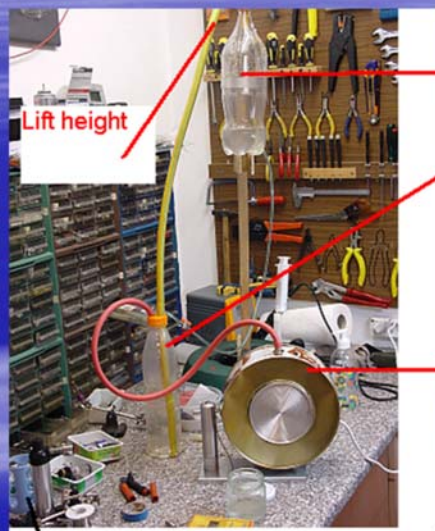
Enthalpy is the internal energy of say 1 liter of water plus the expansion work. Students shall see that.

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Second: What is now the difference between Energy, Enthalpy and Exergy?



The Nanosolex for teaching



- Produced potential energy
= $G \cdot p \cdot h$
- Pressure vessel, the
Heron's ball as used for
the Solimeter.
- Lift height = h .
- Thermal energy from the
(electric evaporizer)
produces steam.
- Put the lense focus on that
re-used cookie box

G means g, this is the gravitation's acceleration 9.81m per square second., greek ρ (rho) is the density of the fluid (water) and h is height, to be measured. The snag is the potential energy of the water in the lifted bottle

For the teacher to explain

1. Measure the electric energy input into the evaporizer (the re-used box for christmas cookies).
2. Put the water for evaporizon into the heat box (Mr. Lumper used an injection device 2 to 5 ml.)
3. Observe how the steam presses the water into the upper bottle in the pressure vessel
4. Calculate the potential energy of the transported water
5. Deduct that from the energy used for evaporizing

AND HERE YOU HAVE THE ENTROPY PRODUCTION. The waste heat is useless.

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Wunschlinse: <http://greenpowerscience.com/FRESNELSHOP/50INCHLINEAR.html> ca 1,2 KW Leistung

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