

Testing of a Solar Thermal Split System:

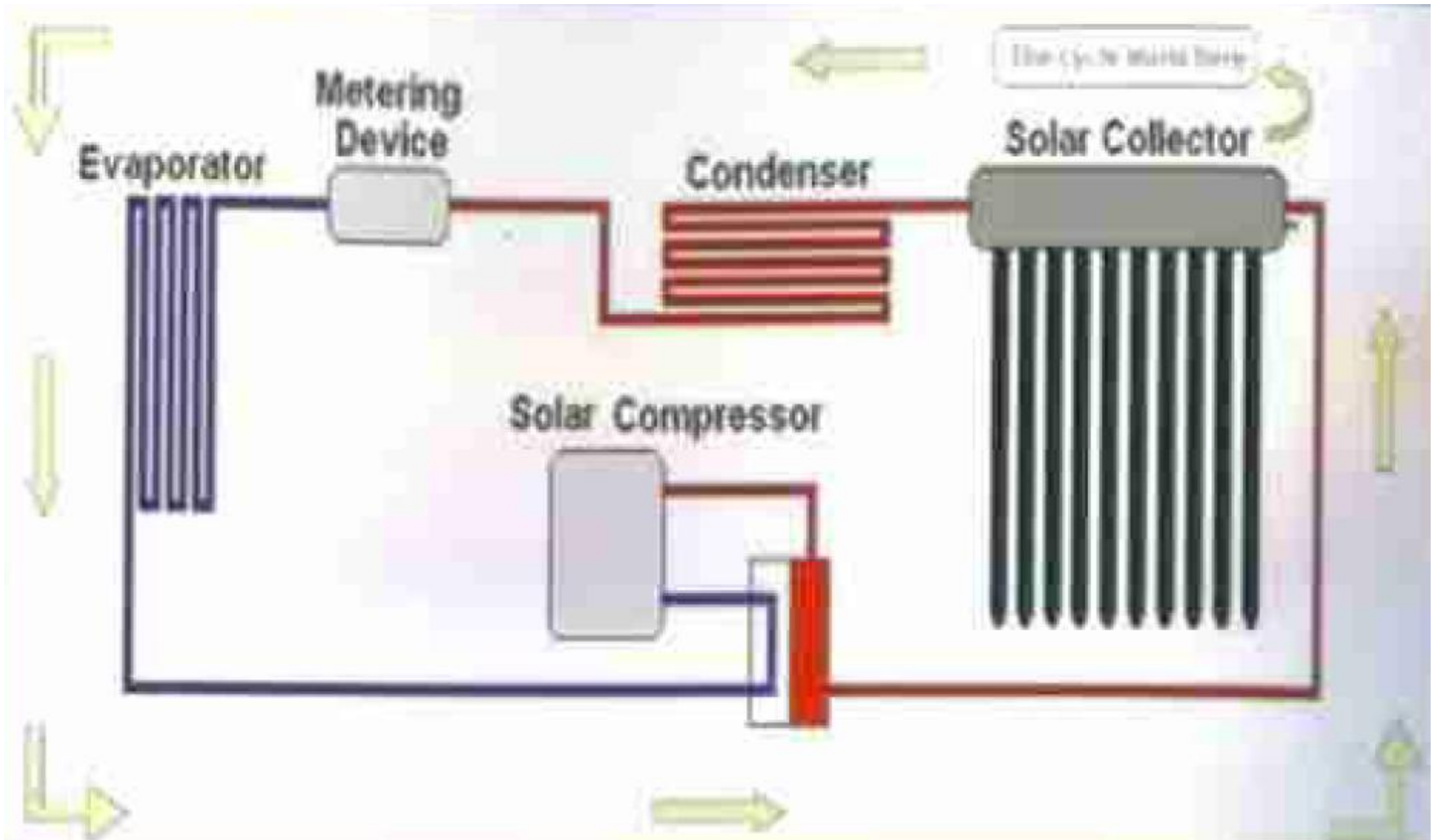
“Using the heat from the sun.... to reduce the superheat of compression”

Gotta get me some of that !

Benefits of [REDACTED] at a Glance

- [REDACTED] Air Conditioning reduces electricity consumption in peak periods
- Cools and Heats
- Designed service life of 30 years
- [REDACTED] saves you the majority of your air conditioning electricity charges
- You can have the [REDACTED] running 24/7 without worrying about the bill
- Helps reduce electricity costs Helps build a better future Helps save our planet Helps to eliminate greenhouse gases by reducing electricity usage

The Cycle

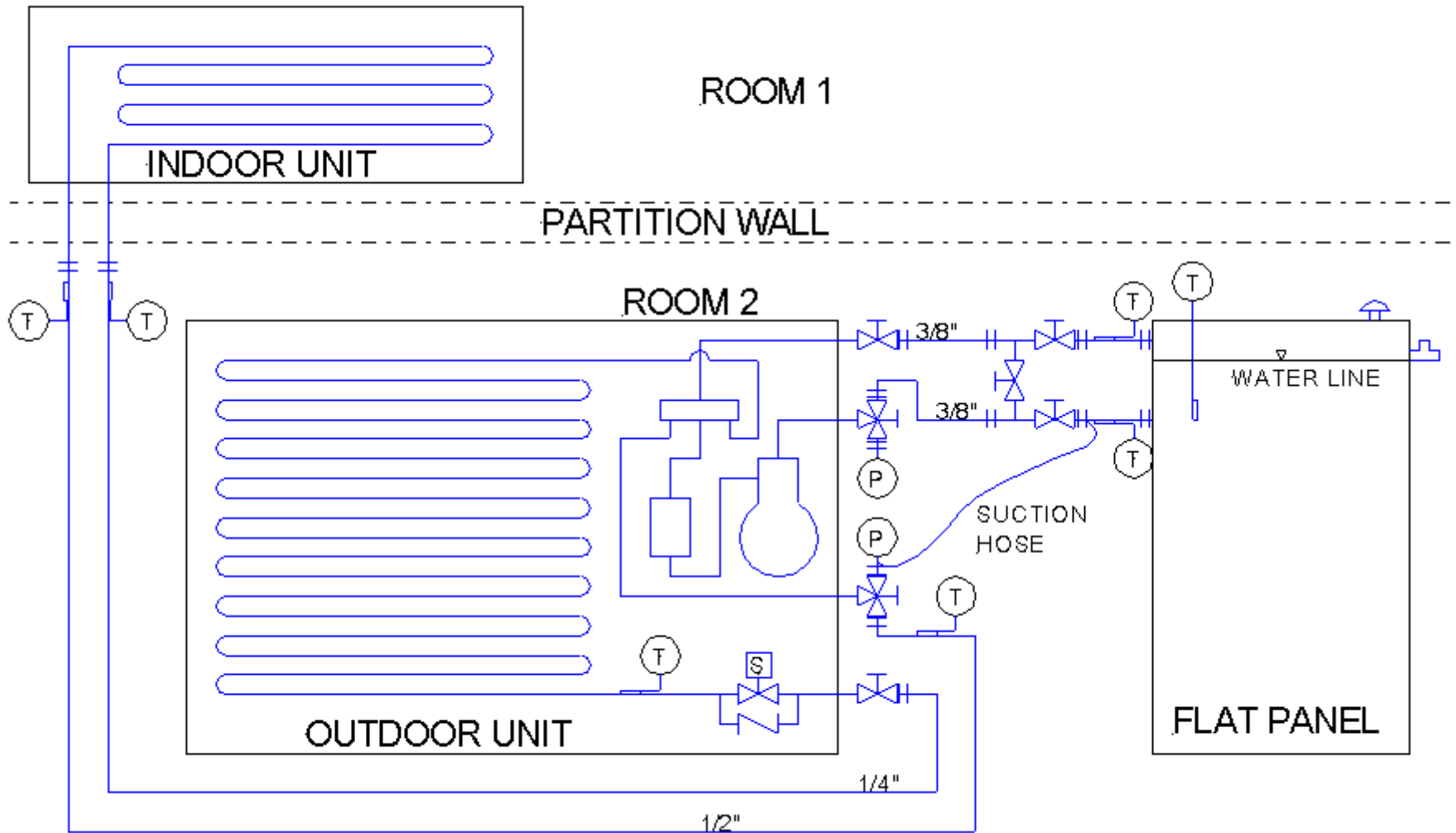


Could it work ?

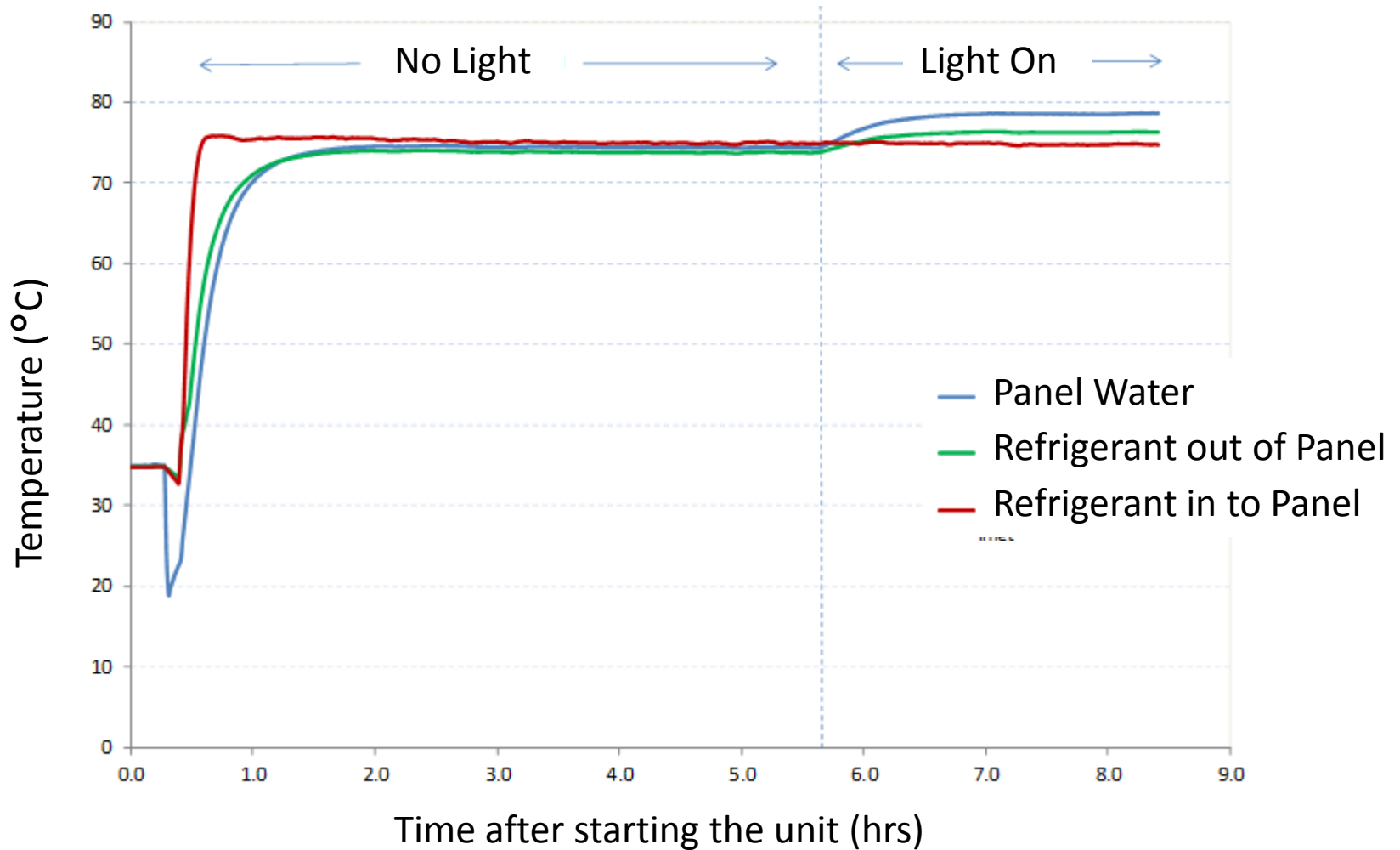
- Continuous ?
or
- Batch ?



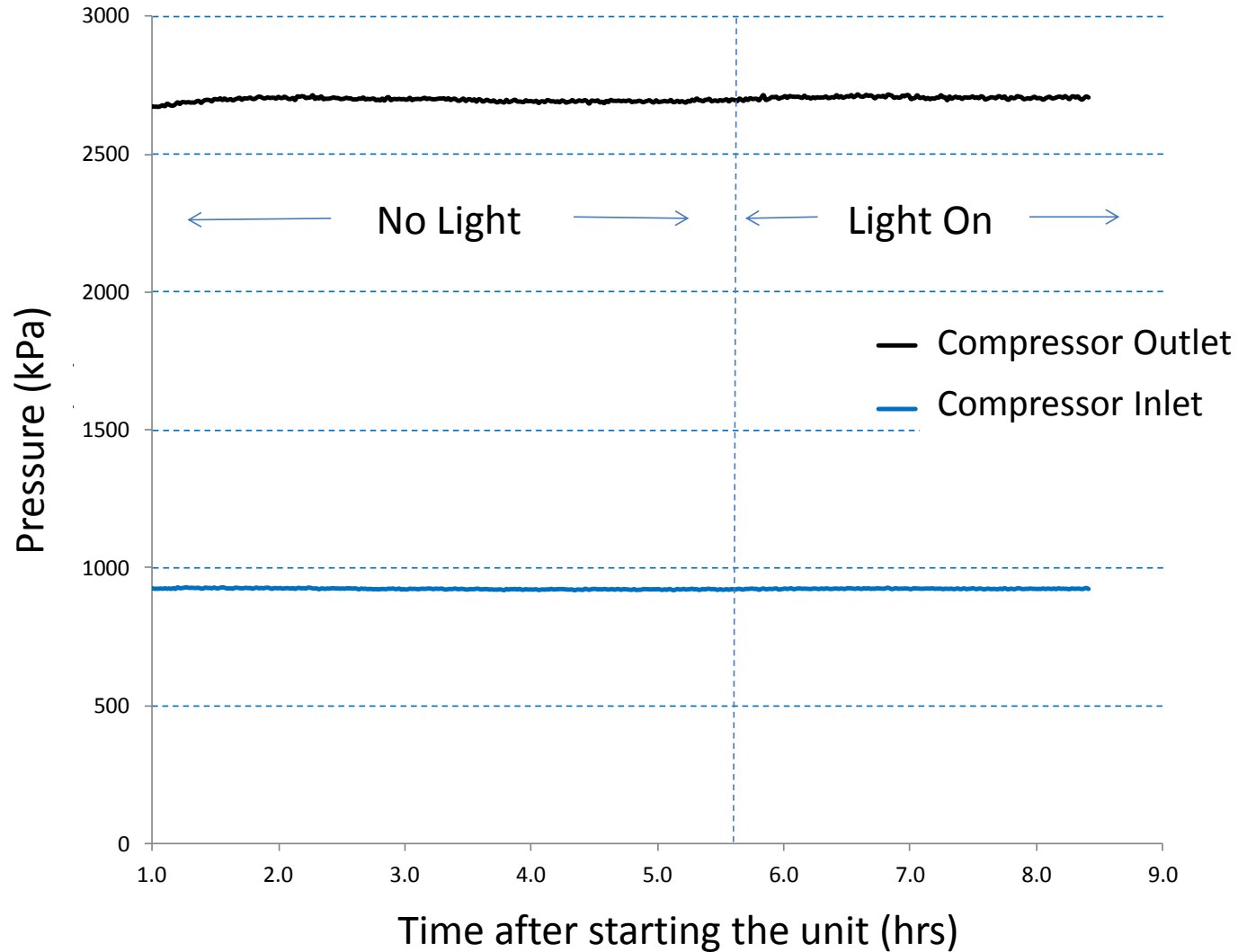
Test Setup



Light off/ light on test



Looks steady state to me (not batch)

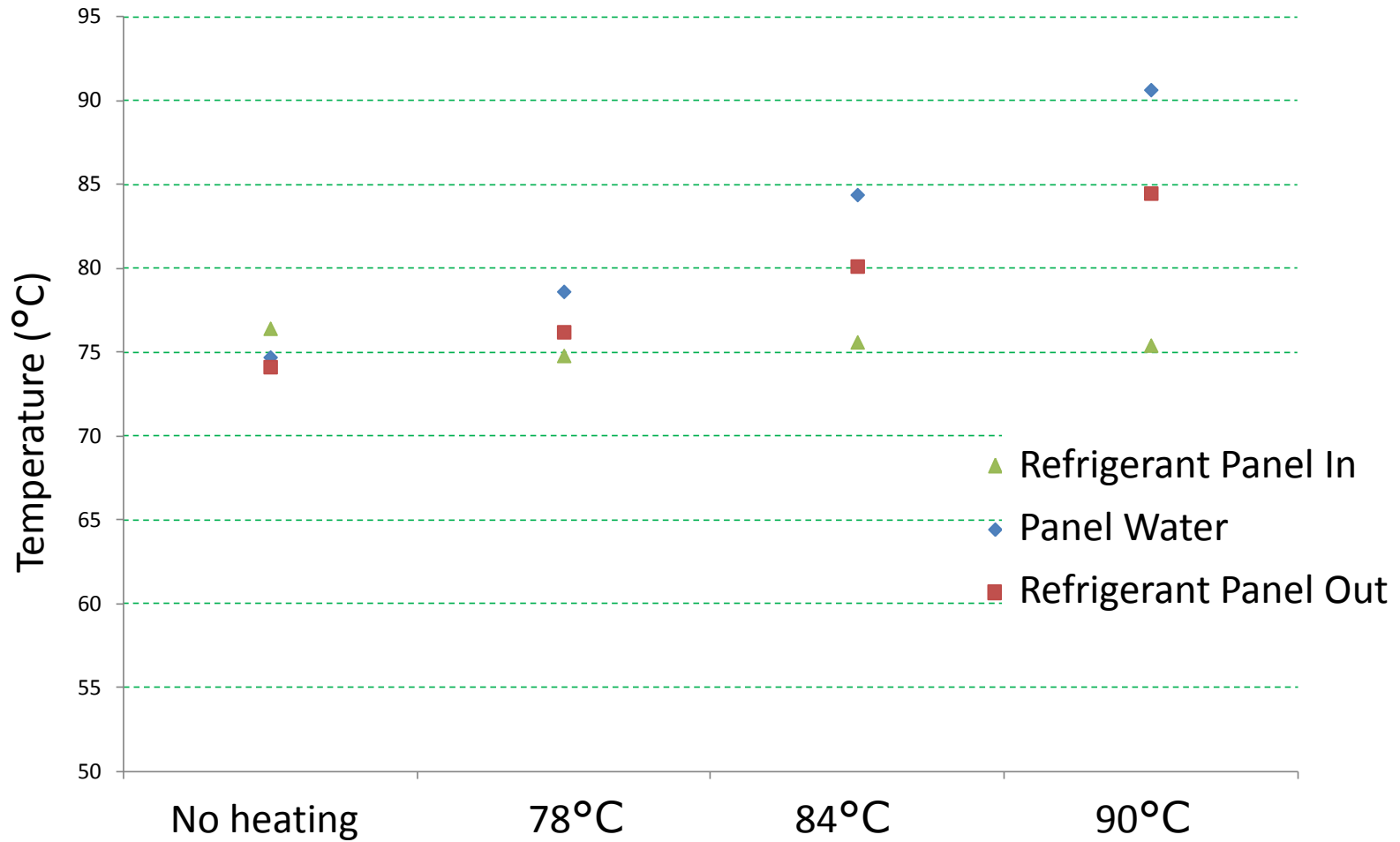


Perhaps our light didn't represent the sun

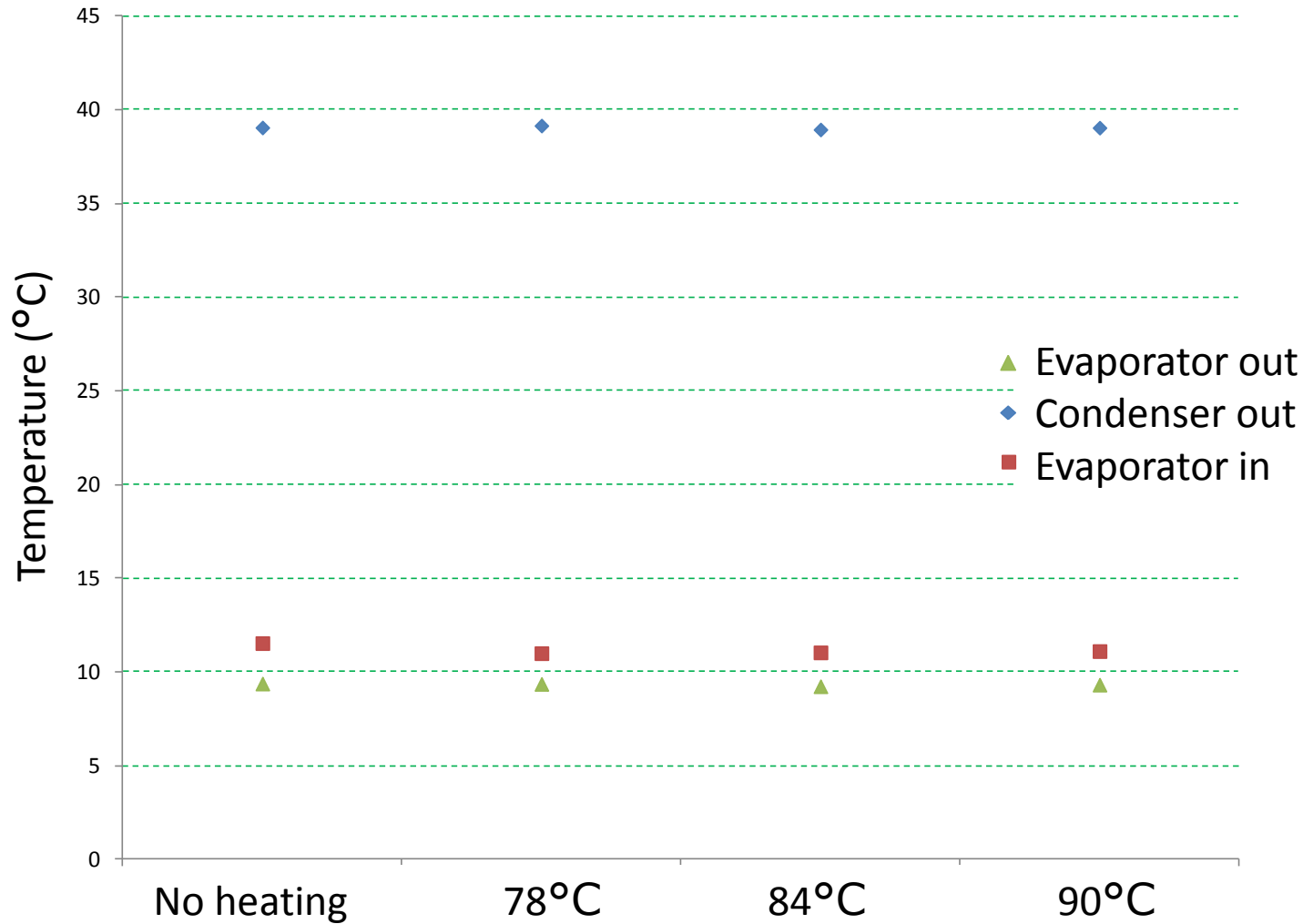
(electric resistance heating instead)

Panel water temperature (C)	78	84	90
Heat gained by the refrigerant through the panel(W)	25	76	156
Equivalent solar <u>insolation</u> value (assuming a collector efficiency of 50%)	170	500	1000

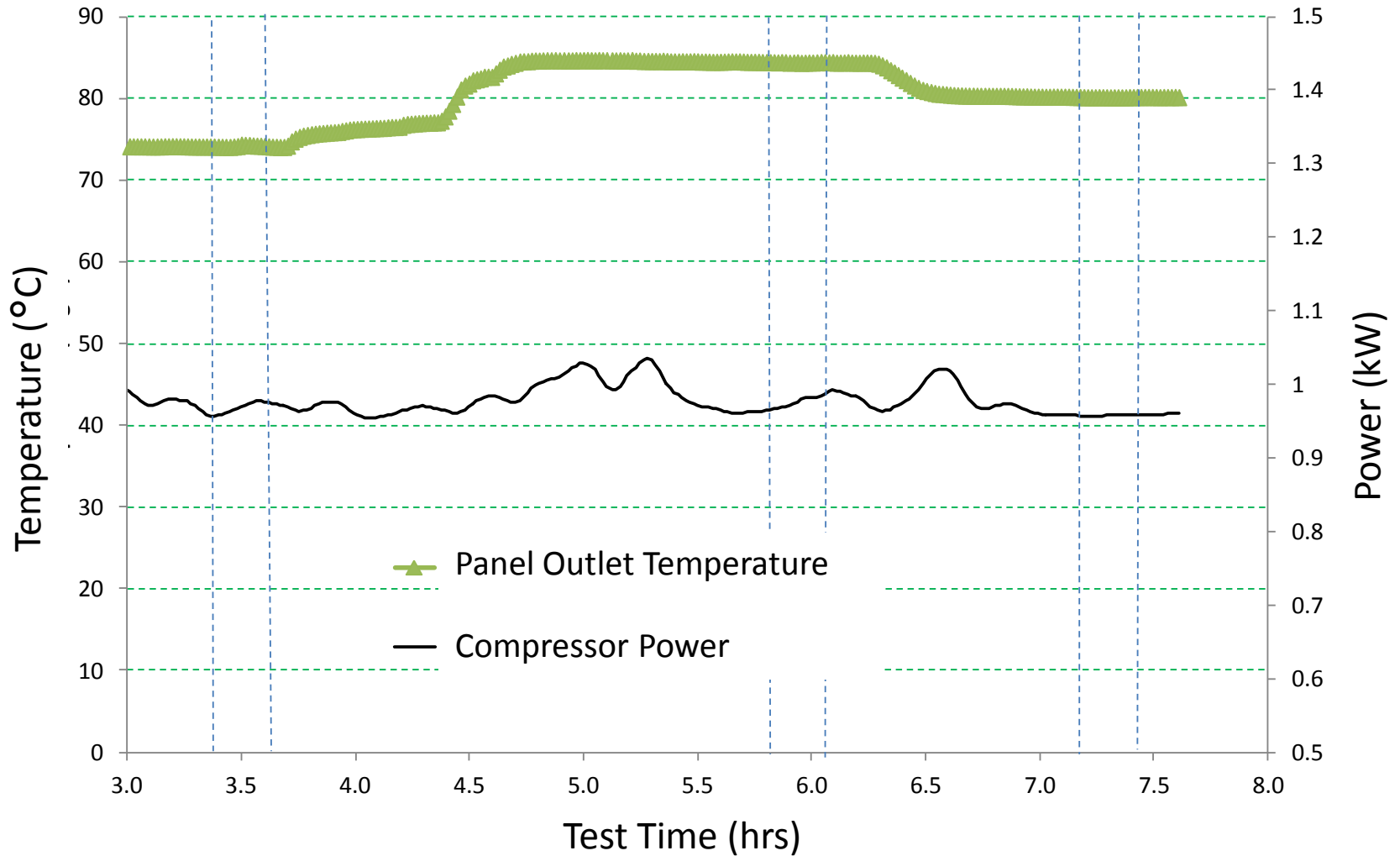
Refrigerant superheat temperatures



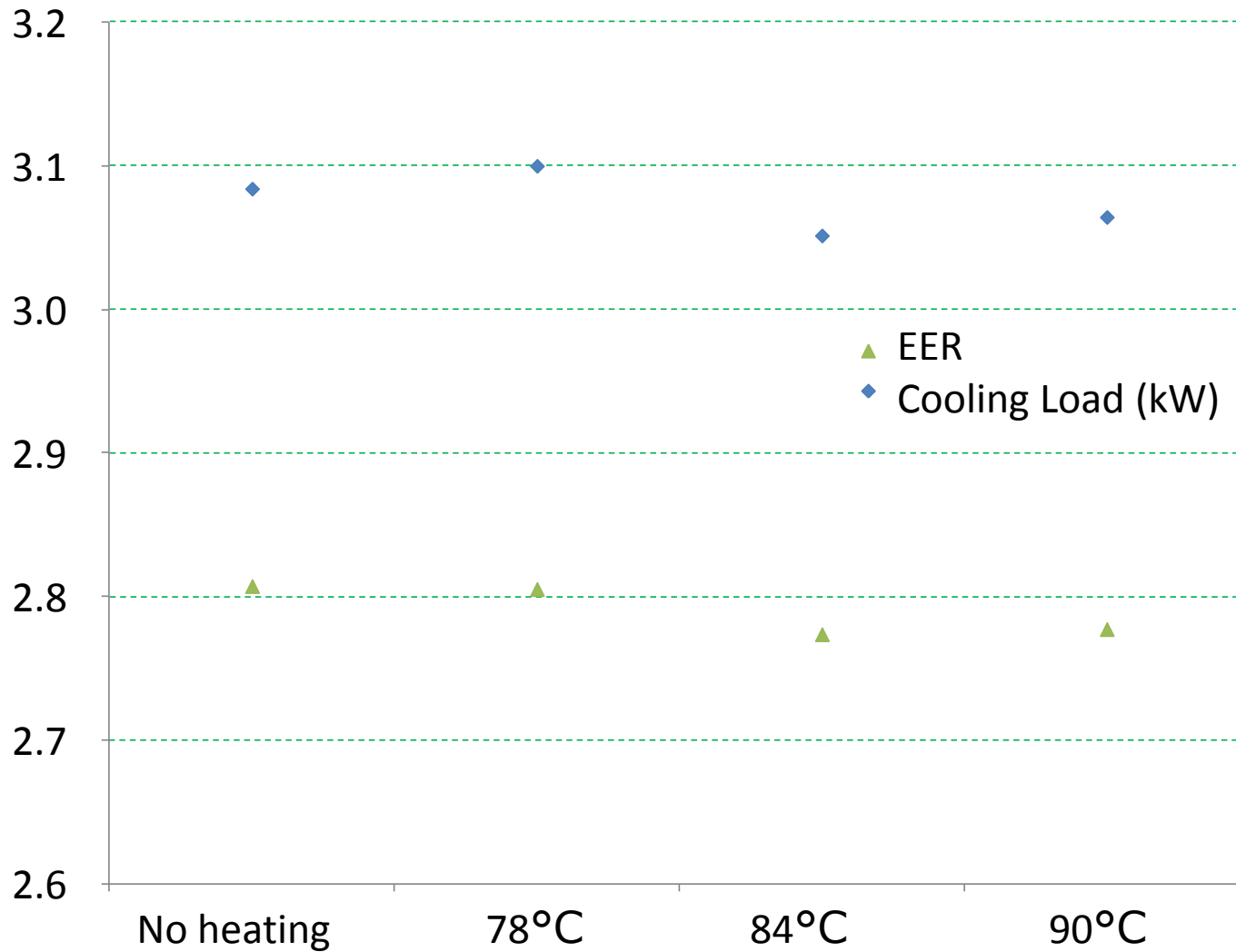
Refrigerant condenser and evaporator temperature



Compressor power



And the final result.....



Perhaps I won't get me some of that !

Benefits of [redacted] at a Glance

- [redacted] Air Conditioning ^{doesn't} reduces electricity consumption in peak periods
- Cools and Heats
- Designed service life of 30 years
- [redacted] ^{doesn't} saves you the majority of your air conditioning electricity charges
- You can have the [redacted] ^{doesn't} running 24/7 ^{If you want to} without worrying about the bill
- ^{doesn't} Helps reduce electricity costs ^{doesn't} Helps build a better future ^{doesn't} Helps save our planet ^{doesn't} Helps to eliminate greenhouse gases by reducing electricity usage