

Paper Number: ICR0483

Title of Paper: Impact of Refrigerant Flowing Resistance on Adsorption Refrigeration Cycle

Presenter: W. Wang

Session: B1-23

Person Contributing Discussion or Question: Zueglo W., FF, Tech. University Berlin, Sec. BH10, D-10587 Berlin, Germany

Comment or Question: In F J8 there is a small increase in capacity with rising pipe length. Can you explain this?

Presenter's Reply: Comparing the cooling for adsorption process, the heating for de-sorption process is easy to re-generate ammonia in the system. The flowing rate is much greater at the beginning than at the end in the case, the flowing resistance have a little function to prevent heating transfer on higher temperature difference in heating process, where the heat source of the system is of a constant temperature and a constant heat exchanging coefficient. So, there is a slight rise on Figure 8. if the calculation expand to longer condition, I believe the curve should decrease slope.

Paper Number: ICR0221

Title of Paper: New Absorption Air-Conditioning System

Presenter: K. Murakami

Session: B1-23

Person Contributing Discussion or Question: Christian Vchweigler, FAe Baygrn, Garching, Germany

Comment or Question: To reach higher storage capacity composed to ice-storage you have to concentrate? 66 weight % (as you stated!) Do you intend to approach or transit crystallization limit to get higher storage densities? You will have to keep the storage list (in this case)!

Presenter's Reply: The crystallization temperature is about 40EC at 66 wt%. So, higher concentration than 66% is needed to keep hot or adiabatic of strong solution tank. Now we are measuring the crystallization temperature and planning to stage energy by higher concentration.

Paper Number: ICR0221

Title of Paper: New Absorption Air-Conditioning System

Presenter: K. Murakami

Session: B1-23

Person Contributing Discussion or Question: Kang, Yong TAE, School of Mechanical Engineering, Kyung Hee University, Kyung-Gi. 449-701 KOREA.

Comment or Question: You may need to model the system as an transient case because the energy storage time period should be different from the energy consumption time period.

Presenter's Reply: That's right! In this paper, one case for an example is considered. Of course, the time of energy storage is very important to think this model I simulated some case already.
