

## Accepted Manuscript

Development of a Micro-Scale Heat Exchanger Based, Residential Capacity Ammonia-Water Absorption Chiller

Marcel A. Staedter , Srinivas Garimella

PII: S0140-7007(18)30063-X  
DOI: [10.1016/j.ijrefrig.2018.02.016](https://doi.org/10.1016/j.ijrefrig.2018.02.016)  
Reference: IJIR 3897



To appear in: *International Journal of Refrigeration*

Received date: 11 December 2017  
Revised date: 17 February 2018  
Accepted date: 20 February 2018

Please cite this article as: Marcel A. Staedter , Srinivas Garimella , Development of a Micro-Scale Heat Exchanger Based, Residential Capacity Ammonia-Water Absorption Chiller, *International Journal of Refrigeration* (2018), doi: [10.1016/j.ijrefrig.2018.02.016](https://doi.org/10.1016/j.ijrefrig.2018.02.016)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

### HIGHLIGHTS

- 7kW absorption chiller for residential scale applications developed
- Compact monolithic microchannel heat exchanger subassemblies
- Scale-up from proof-of-concept (300W) and 3.5 kW cooling capacity chillers
- Standalone packaged system with autonomous control system
- Demonstrated full capacity at an overall system COP of 0.44

Download English Version:

<https://daneshyari.com/en/article/7175280>

Download Persian Version:

<https://daneshyari.com/article/7175280>

[Daneshyari.com](https://daneshyari.com)