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

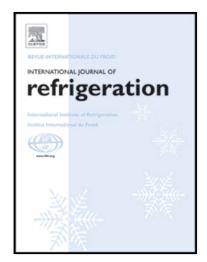
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ACCEPTED MANUSCRIPT

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

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