# **Accepted Manuscript**

Sleeping evaporator and refrigerant maldistribution: An experimental investigation in an automotive multi-evaporator air-conditioning and battery cooling system

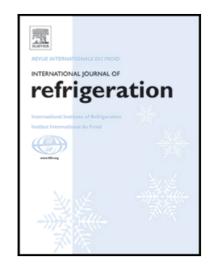
Thomas Gillet, Emmanuelle Andres, Amin El-Bakkali, Vincent Lemort, Romuald Rulliere, Philippe Haberschill

PII: S0140-7007(18)30110-5 DOI: 10.1016/j.ijrefrig.2018.04.004

Reference: JIJR 3944

To appear in: International Journal of Refrigeration

Received date: 22 December 2017
Revised date: 31 March 2018
Accepted date: 3 April 2018



Please cite this article as: Thomas Gillet, Emmanuelle Andres, Amin El-Bakkali, Vincent Lemort, Romuald Rulliere, Philippe Haberschill, Sleeping evaporator and refrigerant maldistribution: An experimental investigation in an automotive multi-evaporator air-conditioning and battery cooling system, *International Journal of Refrigeration* (2018), doi: 10.1016/j.ijrefrig.2018.04.004

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.

### ACCEPTED MANUSCRIPT

## Highlights:

- Thermostatic and electronic expansion valves behaviours are experimentally compared
- Electronic expansion valves are able to tackle sleeping evaporator phenomenon
- Thermostatic expansion valves can lead to refrigerant maldistribution
- Distinct air outlet temperatures can be achieved with electronic expansions valves
- Air temperatures impact of sudden battery cooling is avoided with right regulation



### Download English Version:

# https://daneshyari.com/en/article/7175257

Download Persian Version:

https://daneshyari.com/article/7175257

<u>Daneshyari.com</u>