

Accepted Manuscript

Study of different subcooling control strategies in order to enhance the performance of a heat pump

Estefanía Hervas-Blasco , Miquel Pitarch , Emilio Navarro-Peris , José M. Corberán

PII: S0140-7007(18)30034-3
DOI: [10.1016/j.ijrefrig.2018.02.003](https://doi.org/10.1016/j.ijrefrig.2018.02.003)
Reference: IJIR 3877



To appear in: *International Journal of Refrigeration*

Received date: 25 September 2017
Revised date: 23 January 2018
Accepted date: 12 February 2018

Please cite this article as: Estefanía Hervas-Blasco , Miquel Pitarch , Emilio Navarro-Peris , José M. Corberán , Study of different subcooling control strategies in order to enhance the performance of a heat pump, *International Journal of Refrigeration* (2018), doi: [10.1016/j.ijrefrig.2018.02.003](https://doi.org/10.1016/j.ijrefrig.2018.02.003)

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

- Subcooling enhances heat pump performance up to an optimal value
- Two methodologies to control the optimal subcooling are studied
- Optimal subcooling control based on the secondary fluid temperature lift
- Optimal subcooling control based on a temperature approach
- Stability of the temperature approach control is experimentally proved

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/7175325>

Download Persian Version:

<https://daneshyari.com/article/7175325>

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