Accepted Manuscript

A theory-based explicit calculation model for variable speed scroll compressors with vapor injection

Haoran Sun , Haitao Hu , Jingwei Wu , Guoliang Ding , Geping Li , Chengyun Wu , Xuyang Wang , Zhongyuan Lv

PII:S0140-7007(18)30049-5DOI:10.1016/j.ijrefrig.2018.01.016Reference:JIJR 3883



To appear in: International Journal of Refrigeration

Received date:	25 October 2017
Revised date:	16 January 2018
Accepted date:	18 January 2018

Please cite this article as: Haoran Sun, Haitao Hu, Jingwei Wu, Guoliang Ding, Geping Li, Chengyun Wu, Xuyang Wang, Zhongyuan Lv, A theory-based explicit calculation model for variable speed scroll compressors with vapor injection, *International Journal of Refrigeration* (2018), doi: 10.1016/j.ijrefrig.2018.01.016

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

- A theory-based explicit model of the compressor with vapor injection was developed.
- Explicit equations of suction and injection mass flow rates were established.
- Explicit equations of total input power and discharge temperature were developed.
- The accuracy and calculation speed of the proposed model were verified.

ACTION

Download English Version:

https://daneshyari.com/en/article/7175331

Download Persian Version:

https://daneshyari.com/article/7175331

Daneshyari.com