

Accepted Manuscript

Review and Update on the Geometry Modeling of Single-Screw Machines with Emphasis on Expanders

Davide Ziviani, Eckhard A. Groll, James E. Braun, Michel De Paepe

PII: S0140-7007(18)30190-7
DOI: [10.1016/j.ijrefrig.2018.05.029](https://doi.org/10.1016/j.ijrefrig.2018.05.029)
Reference: IJIR 3997



To appear in: *International Journal of Refrigeration*

Received date: 6 March 2018
Revised date: 15 May 2018
Accepted date: 23 May 2018

Please cite this article as: Davide Ziviani, Eckhard A. Groll, James E. Braun, Michel De Paepe, Review and Update on the Geometry Modeling of Single-Screw Machines with Emphasis on Expanders, *International Journal of Refrigeration* (2018), doi: [10.1016/j.ijrefrig.2018.05.029](https://doi.org/10.1016/j.ijrefrig.2018.05.029)

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 comprehensive review of the geometry modeling of single-screw machines is proposed.
- The main geometric parameters and constraints have been discussed.
- Limitations of existing methodologies have been highlighted.
- An 11 kW single-screw expander has been considered to carry out the calculations.
- An example of 3D rotor design is provided as an electronic annex.

Download English Version:

<https://daneshyari.com/en/article/7175198>

Download Persian Version:

<https://daneshyari.com/article/7175198>

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