## **Accepted Manuscript**

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

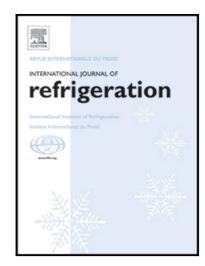
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#### ACCEPTED MANUSCRIPT

### 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.

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