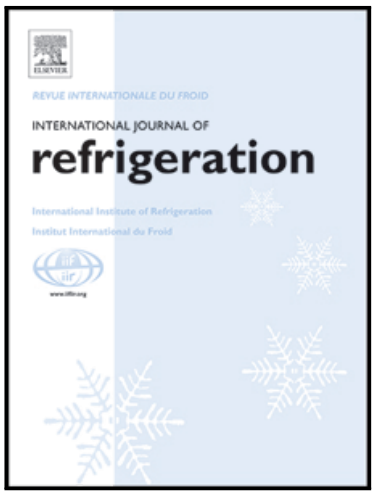

Optimization study on Multicolumn Envelope Meshing Pair of single screw compressor based on leakage characteristics

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Highlights

- Theoretical model was built to analyze the effect of MEMP profile parameters.
- Experiments were carried out to verify the theoretical calculation model.
- Optimization analyses of the MEMP profile parameters have been put forward.
- Obtained design principle of envelope columns number, center distance and radius.