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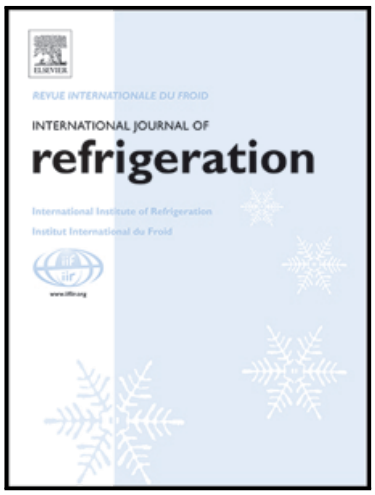

A COMPREHENSIVE STUDY OF TWO-STAGE VAPOR COMPRESSION CYCLES WITH VAPOR-INJECTION FOR HEATING APPLICATIONS, TAKING INTO ACCOUNT HEAT SINK OF FINITE CAPACITY

Fernando M. Tello-Oquendo , Emilio Navarro-Peris , José Gonzálvez-Maciá

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Highlights

- Determination of influential variables on the optimum COP in two-stage cycles
- Thermodynamic optimization of two-stage cycles with vapor-injection with economizer and flash tank
- Analysis of the influence of the subcooling on the optimum COP in two-stage cycles
- Correlation to estimate the optimum intermediate pressure in two-stage cycles
- Study of the influence of the size of the system components on the COP

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