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Thermo-economic analysis and sizing of the components of an ejector expansion refrigeration system

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Highlights

- An ejector expansion refrigeration system (EERS) as an alternative system was proposed to provide the cold water for a refinery.
- A thermodynamic model based on energy and exergy analysis was implemented for the EERS and HXRS systems.
- An economic analysis based on the Total Revenue Requirement (TRR) method was done for the proposed systems.
- A thermo-economic assessment on the EERS components design is presented in detail.

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