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Analysis of CO<sub>2</sub> based refrigeration systems with and without ejector for simultaneous pasteurization and chilling of milk

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**Highlights:**

- *A CO<sub>2</sub> system with ejector is analysed for pasteurization and chilling of milk*
- *Performance is compared with conventional CO<sub>2</sub> system without ejector*
- *Different arrangements of internal heat exchanger are studied*
- *Optimum conditions for maximum milk processing rate are obtained*
- *Proposed system exhibits significant improvement compared to standard systems*

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