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Effect of process parameters on ice crystals and air bubbles size distributions of sorbets in a scraped surface heat exchanger

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**Highlights**

- A low-temperature microscopy method was developed for crystals and bubbles size measurement
- The influences of refrigerant fluid temperature and air flowrate were investigated
- Lowering refrigerant fluid temperature decreased ice crystals and air bubbles sizes
- Increasing air flowrate reduces ice crystals size
- Changes in air flowrate have a slight impact on air bubbles size

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