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Thermodynamic Design and Analysis of Movable Small Scale  
Mixed-refrigerant Liquid Nitrogen Generators

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**Highlights**

- Low cost small scale movable LN<sub>2</sub> generator for remote and field users.
- Low pressure feed gas sources, suiting small commercial air compressors.
- Simplified configuration and operation of mini cryogenic air separation column.
- Closed N<sub>2</sub> cycle to deliver cooling capacity between flammable MJTR and air/O<sub>2</sub>.
- Utilization of normal refrigeration equipment, various feed gas sources.

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