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(57) Abstract :

Portable air conditioners designed using Thermal Peltier technology represent a breakthrough in cooling solutions, offering compact, efficient, and versatile cooling for personal and small-space applications. These innovative devices utilize the Peltier effect to create cooling, making them lightweight, energy-efficient, and environmentally friendly alternatives to traditional air conditioning systems. Portable AC units with Thermal Peltier technology are ideal for cooling bedrooms, offices, RVs, tents, and other small spaces where traditional AC installation is impractical or unavailable. With their low energy consumption, quiet operation, and easy portability, these units provide cooling comfort wherever it's needed, enhancing quality of life and productivity in diverse settings.

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