



UNSW
SYDNEY



Self-Cooling Vest

A lightweight, self-cooling vest for operation in hot environments. It does not require external power and can operate indefinitely.

Competitive advantage

- Current self-cooling vests are heavy, expensive and either require a substantial power source or must be refrozen, limiting their useful operating time
- Our system is lightweight and cost-effective. It uses no power source and can operate indefinitely
- The system is based on a thermosiphon process. It uses a low boiling point phase change material (LBPCM) with a refrigeration cycle and circulation of helium

Impact

- Reduced heat stress in military personnel

More Information

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