

BENEFITS:

- Mitigates heat stress
- Reduces dehydration risk
- Maintains core body temperature
- Enhances operational effectiveness

SYSTEMS SPECIFICATIONS:

- **Cooling:** 72°F Vest Temperature
- **Cooling Unit Weight:** 4 lbs
- **Power Source:**
12VDC, BB-2590 or BB-2557
- **Power Usage:**
50W to 100W dependent on ambient temperature
- **Endurance:**
2-4 hours (BB-2590)
- **Max Ambient Operating Temperature:** 140°F
- **Designed for Rugged Applications**
- **Liquid Penetrator Testing:**
ASTM 1052-14 Air Seal Test Level A, Liquid Integrity Test 1 NFPA 1994 & ASTM F1359
- **MIST Testing:** NC State T-PACC Lab TOP-10-2-022A Vapor MIST & NFPA 1994 Vapor MIST

Personal Cooling System (PCS)

RINI Technologies' Personal Cooling System (PCS) provides heat stress relief to operators using CBRN protective suits. The PCS uses patented miniature refrigeration technology to chill water to 72°F. The chilled water then circulates through a Cooling Vest worn beneath the CBRN suit, to actively cool the operator. A Liquid Penetrator is used to pass chilled water through the suit from the PCS to the Cooling Vest. The chilled water in the Cooling Vest pulls heat from the body, releasing the heat to the PCS internal heat exchanger. In this manner, the PCS effectively maintains the core body temperature of the operator. This system cools continuously for several hours using standard military batteries.

Cooling Vest



Cold Water Tube into Cooling Vest

Cooling Unit

Battery

Cooling System

