



# Crew Sustainment for Future Combat System



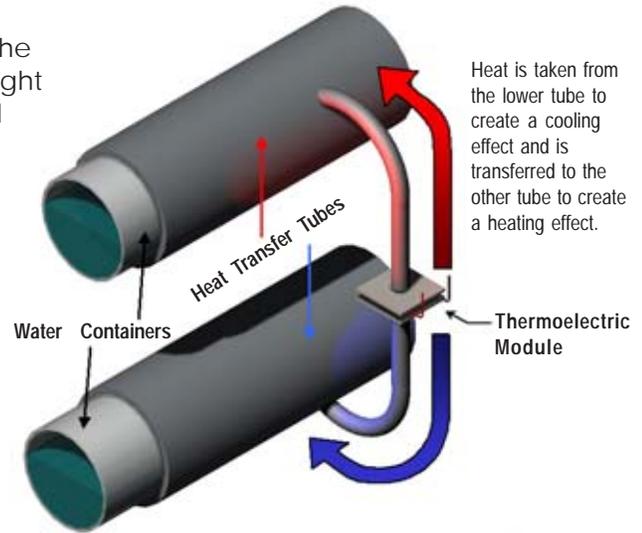
Crew Sustainment in the Future Combat System (FCS), as well as other combat vehicles, will be enhanced by heating water for dehydrated compressed rations/hot beverages and cooling water for cold beverages to maintain operational readiness of the individual warfighter.

## Why is it Needed?

There is a need for a lightweight alternative to the Mounted Water Ration Heater to attain the weight requirements for the Future Combat System and allow the crew to quickly heat and/or cool water with minimum power consumption.

## Technology:

A thermoelectric device capable of simultaneously heating and cooling water (16 ounces of each) in approximately 20 minutes is under development. It is envisioned that this unit will be combined with a water reclamation system to provide potable water for beverages and ration hydration in combat vehicles. Rations will be provided via a compressed entrée dispensing system.



## Key Features / Benefits:

**Reduced logistics burden...**water requirements significantly reduced with integration of the recovery of potable water from combusted diesel fuel.

**Decreased weight...**50-75% reduction versus current system.

**Added capability...**water can be cooled as well as heated.

**Easy to maintain...**no pumps or moving parts.

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FCS Vehicle Concept

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