



SINGLE PALLET EXPEDITIONARY KITCHEN (SPEK) | DoD CFD

PURPOSE:

The Single Pallet Expeditionary Kitchen (SPEK) is utilized to provide the AF the capability to rapidly feed Warfighters for a up to 30 days. Under the phasing stages of the Air Force Basic Force Module Phasing Plan, the SPEK is used to prepare and serve UGR-H&S™ rations until an expanded Air Force BEAR kitchen can be set up.

CHARACTERISTICS:

The SPEK is highly mobile. It is used in remote and undeveloped areas to prepare and serve up to 300 UGR-H&S™ meals per day. When deployed, the entire kitchen can be set-up by a minimum of 4 Warfighters in less than 2 hrs. The kitchen includes the Tray Ration Heater (TRH), which is used for preparing UGR-H&S™ rations, and the Sanitation System, which is used for cleaning, washing, and sanitizing utensils. Both items have been designed to operate at temperatures ranging from -20°F to 120°F (-29°C to 49°C) and relative humidity ranging from 20 to 80%. The SPEK also shelters the operators and equipment from the environment in a 3-section TEMPER tent, including 480 sq ft (45 sq m) of specialized flooring that is tough, lightweight, weatherproof, and maintenance free, providing easy sanitation after serving. The entire system is powered by a 2kW generator and comes complete with all required kitchen accessories, including multiple insulated food and beverage containers. The SPEK is logistically transportable in a C-130 with all of its equipment fitting onto a single 463L air cargo pallet.

CAPABILITIES & BENEFITS:

- Is highly mobile for early entry in remote locations.
- Fits on a single 463L air cargo pallet for transportation.
- Is easily unpacked and assembled.
- Shelters operators and equipment from environmental conditions.
- Requires only four food service personnel to operate.

COMMENTS:

Current plans call for the SPEK to be replaced by an all-electric version called the E-SPEK. Development of the E-SPEK is scheduled to be completed and transitioned to the Air Force in FY11.

POINT OF CONTACT:

DoD Combat Feeding

Phone: COMM (508) 233-4670

E-Mail: nati-amsrd-nsc-ad-b@conus.army.mil



AT A GLANCE:

■ FEEDING CAPACITY:

Up to 300 people in 2 hrs twice per day

■ DIMENSIONS:

One 3 section TEMPER tent, with 20 ft x 24 ft (6.1 x 7.3 m) weather proof flooring

■ WEIGHT:

- Basic Level SPEK (one three-section TEMPER Tent) "Individual Bases": 3,655 lbs (1,645 kg)
- BEAR SPEK (ESAMS Hard Shelter System) "Expeditionary Forces": 7,330 lbs (3,299 kg)

■ UTILITIES/POWER:

One military tactical 2 kW diesel generator

■ TRANSPORTATION:

Fits onto a C-130, 463L air cargo pallet

UNCLASSIFIED

REV 05-25-10 | OPSEC 08-481