CONTRACTOR NAME: Johnson Outdoors Gear, Inc.



RDS 320 Tan with Stove Pipe and Thermal Liner 2480587

File Name:2480587.pdf

APPENDIX A, SHELTER PRODUCT DATA SHEET, REVISION A:

PRODUCT DATA	SHEET	CONTRA	CTOR I	NAME: Johnso	n Outdoors Gear, Inc.	
1. PART NUMBER: 2480587			2. NSN: 0			
3. NAME: RDS 320 Tan with Stove Pipe and Thermal Liner		4. TYPE: RDS (Rapid Deploya		ble Tent System)	5. CLASS: Tent Complete	
6. COLOR: Tan		7. SUPPORT SYSTE Frame		CM:	8. SERIES: N/A	
9. INTENDED USE: N Operations Centers. De	Mission-read signed speci	y in minutes f fically for ext	for first r reme hot	esponders, medica or cold climates	l & surgical suites; Commai	nd Post,
10. DIMENSIONS (IN FEET AND INCHES)	LENGTH: 16'		WIDTH: 20'		HEIGHT: RIDGE/EAVE 8' 11" / 6' 11"	
11. DIMENSIONS (EXTERNAL GUYED)	LENGTH: 16'		WIDTH: 20'			
12. SQUARE FEET INTERIOR 285 ft2	ft ²					
13. WEIGHT (POUNDS, UNPACKAGED) 529 lbs pounds			14.WEIGHT (PACKAGED) 812 lbs pounds		15.SHIPPING CUBE (PACKAGED) 79.63	
16. SHIPPING CONTAINER	LENGTH 78''		WIDTH 42"		HEIGHT 42"	
17.SET-UP TIME/ NUMBER OF PERSONS <8 min./ 3 persons req.			18.STRIKE TIME/ NUMBER OF PERSONS <8 min./ 3 persons req.			
19. SNOW LOAD:			20 WIND LOAD:			
10 lbs/ft2 Design-yes Tested-yes		55/65(gusts) mph			Design-yes Tested-yes	
21. PARTS INCLUDEI #2(101 lbs); and side wa packages wrapped sepe	D: Two bay f alls in packa prately)	rame, with er ge #3(74 lbs).	ıd walls i Along wi	n package #1(318 th repair kit and s	bs). Floor, liner and plenum take bag in package #4(35 lb	in package s) (all
22. DESCRIPTION: RDS (Rapid Deployable System) 320 tan with stove pipe and thermal liner						

23. ACCESSORY AND SUPPORT EQUIPMENT	PART NUMBER Or NSN	Check If included	DESCRIPTION
LIGHT SET Product Data Sheet			BATLite 8 Light Kit Blue PN 2480474 NSN 6210016642045 Red PN 2480454 NSN 6210016642010
ELECTRICAL OUTLET SET Product Data Sheet			N/A
FLOORING Product Data Sheet			Bike Track Flooring 1 inch PN 2480483 NSN 5680015435495 2 inch PN 2480482 NSN 5680015538740 2 Inch ICM PN 2480481 NSN 5680015538745
HEATER Product Data Sheet			N/A
AIR CONDITIONER Product Data Sheet			N/A
GENERATOR Product Data Sheet			N/A
POWER DISTRIBUTION Product Data Sheet			N/A
TRAILER MOUNTED SUPPORT Product Data Sheet			N/A
INSULATED LINER Product Data Sheet		included	RTEQ-6 thermal liner (Operational temperature range of -40°F to 120°F) Data Sheet follows
INSULATED FLOORING Product Data Sheet			N/A
SOLAR SHADE/ CAMOU. NET Product Data Sheet			N/A

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Eureka!

RTEQ™ THERMAL LINER

Another Tactical Innovation from Eureka!



Save Time, Save Energy, Reduce Fuel Consumption

The Rteq-6 Thermal Liner employs a double layer of the material, where energy loss and solar load are at their highest. This double layer also has the benefit of an optimally-sized air gap, which enhances thermal efficiency even further. These liner enhancements require no additional materials or installation requirements.

★ ALWAYS READY ★

Eureka!

Reduce fuel consumption of Forward Operating Bases and installations around the world...

One of the greatest wastes of energy at Forward Operating Bases (FOBs) is thermal transfer through the poor insulation of soft shelters. Shelters with low R-value (thermal efficacy) will conduct heat/cold more easily, requiring more fuel and more generators to keep them at habitable temperatures. According to the Navy SBIR N103-193, generators that power ECUs to heat/cool shelters account for 75-80% of the total fuel usage of the US Military's FOBs. Therefore, the most effective way to reduce fuel usage at FOBs is to target inefficiencies in the living quarters.

Eureka! investigated a number of technologies to be used in the development of a thermally-efficient insulating design for soft shelter systems. This effort is highly technical with extensive testing and analysis. We compiled the available literature, employed outside engineering support, and contracted with local universities to compliment our staff of designers in the development of the proposed technologies.

The end result is a liner system that is superior over every other thermal liner system in the industry in terms of the three most important characteristics:

- **R-value** (thermal efficiency/performance)
- Logistics (pack size, install time, ease of use)
- Cost

The Rteq technology can also be used to create customized liners to fit with any currently fielded soft shelter system.

Features

- Rteq-6 liner systems (installed) yields average system R-value equal to 6 m² °K/W - up to 38% fuel savings
- Operational at a temperature range of -40°F to 120°F
- Employs double layer of material, where energy loss and solar load are at their highest
- Does not require sub-liner to reach R-values
- Does not absorb moisture
- Installs in the same amount of time as standard liner
- Lighter weight and smaller pack size than currently fielded quilted sub-liners
- Replaces current conventional liners, while retaining same connection points, light straps, stovepipe access and ECU feed-throughs
- Withstood durability tests proprietary materials and manufacturing process exceed US Military requirement for durability, pack size, weight and thermal efficiency
- Minimum shelf life of 10 years

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