

**10 Day  
Duration**

# TBS 40L

Total Blood System

*Collection | Transport | Storage*

### To be Certified - Safety

North American Classification Listing (cETLus to be Marked)

### Hot and Cold Environments

Compartment heating and cooling ensure stable temperature in all austere conditions

### All Orientations

Temperature maintained in any position with active cooling automatically managed

### Rugged Design

Withstands rough handling and accommodates austere environments including salt water

### Practical Display

Informs operator through on-screen prompts and provides record of stored temperature. Supplies predicted remaining storage time

### Silent and Dark Mode

Prevents interference with infrared night-vision equipment and preserves concealment

### Internal Charger

Charges battery while maintaining temperature. Battery recharges in 4 hours

### Uses Military Battery

Operates on internal MIL-PRF-32383 BB-2590/U smart battery

### Long Battery Run-Time

No battery swapping normally needed thanks to 8 day battery run-time

### No EMI Emitted During Operation

Advanced wiring and shielding ensure safe deployment aboard aircraft

### To be Qualified - Helicopter Air Ambulance

Meets "Helicopter Air Ambulance" (HAA) equipment requirements for shock / vibration and radio interference. Pressure relief vented compartment



# TBS 40L

Total Blood System

**DELTA**   
DEVELOPMENT TEAM®

## SPECIFICATIONS

### GENERAL

#### Size

21" wide x 23" high  
x 24" deep  
(53.3 cm wide x 58.4cm  
high x 61 cm deep)

#### Weight

99 lbs (45 kg) unloaded

### TEMPERATURE RECORDING

#### Frequency

15 minutes

#### Span

72 days

#### Accuracy

±0.5 C, class 1 (k=2)

#### Calibration

NIST Traceable

### STORAGE

#### Internal temperature

4.5°C ± 0.8°C and -23°C ± 1°C

#### Duration

240 hrs @ 24°C (@ 75°F)

#### Volume

43 L (45.4 qt)

#### Unit capacity

Forty eight 450 ml bags

### Standard

AABB Standards for  
Blood Banks and  
Transfusion Services,  
ANSI 456-20211a

### FDA Registered Facility

#3017667916

### To be Qualified - HAA FAA

AC No: 135-14B, sec 5-3.d, 5-5(1)

### ENVIRONMENTAL

#### Temperature Ranges:

##### Operating

-32° to 50°C (-25° to 122°F)  
with battery discharge  
and AC power operation.

##### Battery Charging

-10° to 40°C (-4° to 104°F)

##### Storage

-32° to 60°C (-25° to 140°F)

### Electrical Safety

UL/IEC 61010-1

### Ingress Protection

IP66 & NEMA4X Waterproof

### EMC

EN 55011 CISPR 11 Class A

### Refrigeration Safety

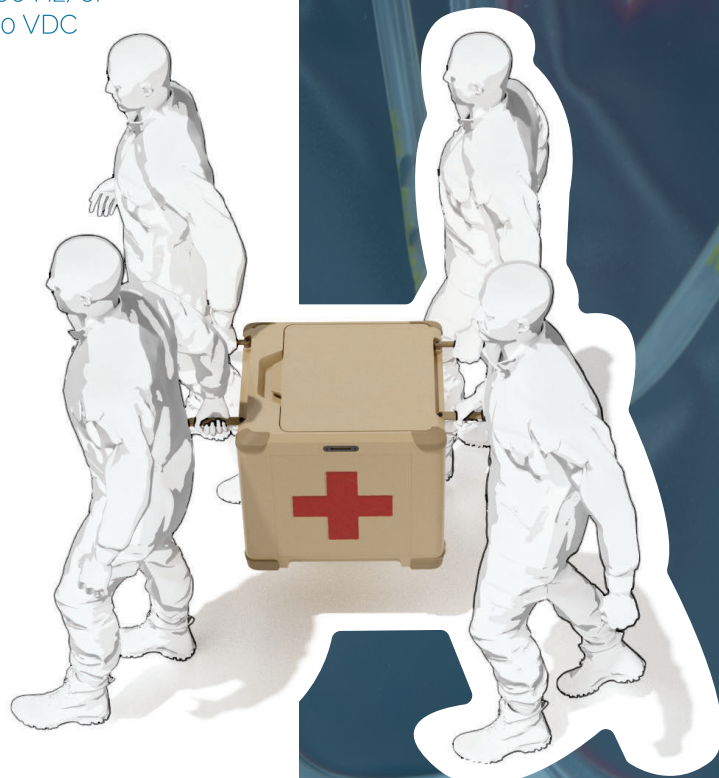
UL/IEC 61010-2-11

### Heater Safety

UL/ IEC 61010-2-10

### Operating Voltages

100 to 240 VAC  
(50/60/400 Hz) or  
20.0 to 31.0 VDC



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