

## TRANSPORTABLE COLLAPSIBLE BLADDERS (TCBs)

### MISSION-READY CLASS III(B) FUEL DISTRIBUTION FOR AIR, GROUND, AND MARITIME OPERATIONS

#### Family Overview

Canflex (USA), Inc. designs and manufactures Transportable Collapsible Bladders (TCBs) for expeditionary fuel distribution where fixed infrastructure is unavailable, degraded, or impractical. Built with high-frequency welding and rugged coated fabrics, TCBs support distributed operations, contested logistics, and rapid sustainment across joint platforms.



#### Why Units Choose Canflex TCBs:

- Cross-domain employment (air, ground, maritime, palletized, containerized).
- Standard logistics interfaces: 463L pallets and ISO container options (TRICON, BICON, TEU, QUADCON).
- Field-ready construction for repeatable deployment and redeployment.
- Engineering support through direct engagement.

#### Family Snapshot

| Family / Variant    | Planning-level capacity         | Primary logistics pathway                                  |
|---------------------|---------------------------------|--|
| TCB-S               | Up to 500 gal                   | 463L compatible; TRICON pathway                            |
| QuadFlex (TCB-QUAD) | Up to 850 gal module (scalable) | QUADCON / container handling workflows                     |
| TCB-M (M1 / M2)     | Up to 1,000 gal class           | M1: (2) married half pallets; M2: (1) full pallet / BICON  |
| TCB-L               | Up to 2,000 gal                 | (2) married full pallets; TEU staging option               |
| TCB-XL / TCB-TEU    | Up to 3,000 / 5,000 gal         | TCB-XL: (3) married full pallets; TCB-TEU: TEU (20-ft ISO) |

## TCB-S / QUADFLEX (TCB-QUAD)

### SMALL TACTICAL DISTRIBUTION + CONTAINERIZED NODE STAGING

#### Overview

The TCB-S and the TCB-QUAD (QuadFlex) are complementary Canflex fuel distribution solutions engineered for operations where fixed fuel infrastructure is unavailable, degraded, or impractical. TCB-S supports tactical bulk fuel distribution at the forward edge, while QuadFlex extends that mission into QUADCON-optimized containerized staging and node-based sustainment.



#### Planning-Level Characteristics

| Parameter                     | TCB-S                            | QuadFlex (TCB-QUAD)                                   |
|-------------------------------|----------------------------------|---|
| Capacity                      | Up to 500 gal                    | Up to 850 gal module (scalable by module count)       |
| Approx. footprint (operating) | ~7.4 ft × 4.4 ft × 3.0–4.0 ft    | Containerized execution (module/kit-based)            |
| 463L interface                | Compatible (half or full pallet) | N/A   |
| ISO container pathway         | TRICON                           | QUADCON workflows                                     |
| Primary handling              | Pallet / vehicle / craft staging | Container handling, deck staging, and node operations |

#### Typical Military Use

- Forward refuel points supporting maneuver units.
- Distributed operations with a minimal sustainment footprint. Early-entry fuel staging, rapidly repositionable as missions evolve.
- Containerized staging at logistics nodes and maritime decks (QuadFlex / TCB-QUAD).
- Modular sustainment scaled by 850-gal building blocks, including pre-positioned stocks.

#### Transportation & Compatibility (Summary)

| Method        | Typical employment                 | Platforms (examples)                   | Recommended configuration |
|---------------|------------------------------------|--|---------------------------|
| Air           | Austere access, tactical insertion | JPADS, SH-60, CH-47, MV-22, C-130/C-17 | TCB-S                     |
| Ground        | Convoy sustainment, mobile refuel  | JLTV, LMTV, MTRV, HEMTT                | TCB-S                     |
| Maritime      | Ship-to-shore, littoral staging    | RHIB, LCU, LARC-V                      | TCB-S                     |
| Palletized    | Air-ground interface staging       | 463L workflows                         | TCB-S                     |
| Containerized | Node staging, deck efficiency      | TRICON / QUADCON                       | QuadFlex                  |

## TCB-M AND TCB-L

### MANEUVER SUSTAINMENT + OPERATIONAL-LEVEL BULK MOVEMENT



### TCB-M (1,000-gal class)

TCB-M supports maneuver sustainment and extended operational reach when fixed fuel infrastructure is unavailable, degraded, or impractical. It is designed to move with the force across air, ground, and maritime lines of communication.

| Parameter                         | TCB-M1                   | TCB-M2          |
|-----------------------------------|--------------------------|-----------------|
| Storage capacity                  | Up to 1,000 gal          | Up to 1,000 gal |
| Approx. operating dimensions (ft) | ~14 × 4 × 3-4            | ~7 × 8 × 3-4    |
| 463L pallet compatibility         | (2) married half pallets | (1) full pallet |
| ISO container compatibility       | N/A                      | BICON           |

- Mobile refuel support to maneuver formations and distributed elements.
- Forward staging at logistics nodes and refuel points.
- 463L pallet workflows (M1) or BICON container workflows (M2) based on lift and staging requirements.

### TCB-L (2,000-gal class)

| Parameter                         | TCB-L                    |
|-----------------------------------|--------------------------|
| Storage capacity                  | Up to 2,000 gal          |
| Approx. operating dimensions (ft) | ~14 × 7.5 × 3.5-4.5      |
| 463L pallet compatibility         | (2) married full pallets |
| ISO container compatibility       | TEU                      |

- Forward staging at logistics nodes and refuel points.
- Bulk fuel movement supporting distributed ground operations.
- Ship-to-shore sustainment support and maritime staging.
- 463L pallet workflows and TEU container staging options.

## TCB-XL / TCB-TEU

### HIGH-CAPACITY SUSTAINMENT: PALLET-DRIVEN (463L) OR CONTAINER-DRIVEN (TEU)



### Overview

TCB-XL and TCB-TEU provide Canflex's high-capacity fuel distribution capability where fixed fuel infrastructure is unavailable, degraded, or impractical. TCB-XL aligns to 463L pallet workflows for rapid staging, while TCB-TEU aligns to TEU (20-ft ISO) container logistics for controlled node staging and deck efficiency.

| Parameter                         | TCB-XL                   | TCB-TEU                             |
|-----------------------------------|--------------------------|-------------------------------------|
| Storage capacity                  | Up to 3,000 gal          | Up to 5,000 gal                     |
| Approx. operating dimensions (ft) | ~20 × 8 × 3-4            | TEU (20-ft ISO) container-optimized |
| 463L pallet compatibility         | (3) married full pallets | N/A                                 |
| ISO container compatibility       | N/A                      | TEU (20-ft ISO)                     |

### Typical Military Use

- High-endurance forward staging at logistics nodes and refuel points.
- Bulk fuel movement supporting sustained distributed operations.
- Ship-to-shore sustainment support and maritime staging.
- Standardized ISO container handling where repeatable workflows are required (TCB-TEU).

### Request Engineering Support

Canflex provides platform integration guidance and mission-driven configuration support through direct engagement. Detailed specifications, approvals, and platform-specific interfaces are provided through end-user validation.