

# B737 AUXILIARY FUEL SYSTEMS

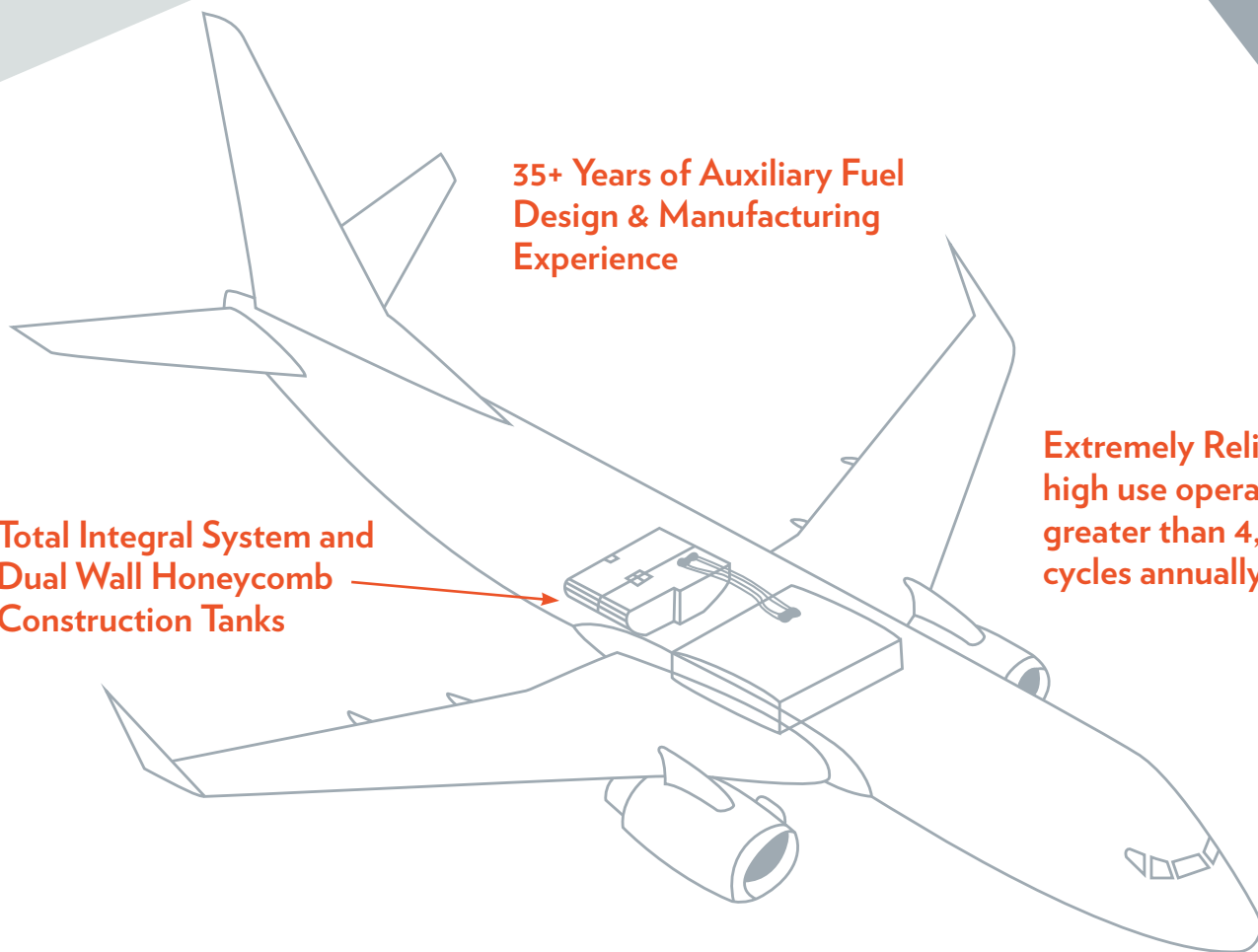
BY ALOFT

A Trusted Boeing Supplier  
of Auxiliary Fuel Systems

35+ Years of Auxiliary Fuel  
Design & Manufacturing  
Experience

Total Integral System and  
Dual Wall Honeycomb  
Construction Tanks

Extremely Reliable in  
high use operation,  
greater than 4,500  
cycles annually



## The Obvious one – fly further! And other benefits...

- Improving the ability to use alternate forward CG performance data
- Improving your AFT CG position for improved (decreased fuel burn)
- New route pathfinder aircraft for scheduled operations
- For routes with season 'wind issues' – avoiding tech stops
- Added range – expanding your market served
- Aft cargo capacity optimized by reducing difficult forward loading and unloading zone

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# TECHNICAL AFS SPECS AT A GLANCE

## Boeing 737 Auxiliary Fuel System 2 Aft Tank System

| Aircraft Model | Units | -700 | -800 | -900 | -900ER |
|----------------|-------|------|------|------|--------|
|----------------|-------|------|------|------|--------|

### System Benefits

|                               |     |      |      |      |      |
|-------------------------------|-----|------|------|------|------|
| Increased Fuel Capacity       | lbs | 6445 | 6445 | 6445 | 6445 |
|                               | kgs | 2923 | 2923 | 2923 | 2923 |
| Increase Cruise Time (approx) | min | 45   | 45   | 45   | 45   |

### System Impacts

|                               |     |      |      |      |      |
|-------------------------------|-----|------|------|------|------|
| Installed System Dry Weight** | lbs | 1304 | 1544 | 1435 | 1411 |
|                               | kgs | 710  | 710  | 710  | 710  |

### Cargo Capacity Impact

|                                       |       |      |      |     |     |
|---------------------------------------|-------|------|------|-----|-----|
| Aft Compartment<br>(Volume Reduction) | cu ft | 230  | 239  | 239 | 239 |
|                                       | cu m  | 6.5  | 6.8  | 6.8 | 6.8 |
| Aft Compartment<br>(Volume Remaining) | cu ft | 350* | 630  | 743 | 757 |
|                                       | cu m  | 21.4 | 17.8 | 21  | 21  |
| Aft Cargo Volume Reduction            | %     | 40   | 27.5 | 24  | 24  |
| Aft Cargo Volume Reduction            | %     | 24   | 15.5 | 13  | 13  |

\* Cargo Volume Remaining for non-IGW, 336 cu ft for IGW

\*\* System Dry Weight includes Unusable Fuel

### Additional Technical Considerations

- Loss of usable cargo space when AFS is installed
- Incremental weight of the system
- The weight of the additional fuel carried counts against MTOW
- Additional crew training and operational planning