Characteristics Summary

TACTICAL RECONN . . . . . RF-84F (W-3 ENGINE)

"THUNDERFLASH"

REPUBLIC

Wing Area ................. 325 sq ft  Length ..................... 47.5 ft
Span ........................ 33.6 ft  Height ...................... 15.0 ft

AVAILABILITY

<table>
<thead>
<tr>
<th>Number available</th>
<th>PROCUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTIVE</td>
<td>RESERVE</td>
</tr>
</tbody>
</table>

STATUS

1. Mock-Up (RF-84F): May 51
2. First Flight (RF-84F-1): Sep 53
3. First Acceptance: Jan 54
4. Production Completed (RF-84F-15): May 55

Navy Equivalent: None  Mfr's Model: AP-23T

POWER PLANT

(1) J65-W-3 (Wright)
(1) J65-B-3 (Buick)

ENGINE RATINGS

S.L.S.   LB - RPM - MIN
Max: 7220 - 8300 - 5
MIL: 7220 - 8300 - 30
Nor: 6350 - 8000 - Cont

A T O

No. & Model... (4) 14K3-1000
Mfr ............. Aerojet
Thrust (lb) .......... 1000
Duration (sec) ....... 14

FEATURES

Crew ..................... 1
Liquid Oxygen System
One-Piece Maneuvering Stabilizer
Drag Chute
N-9 Gunsight
MB-2 Auto-Pilot (prov)
In-Flight Refueling (Flying Boom Method)
Drop applause Ext. Photo Flash Pods
Single-Point Grd Refueling Speed Brakes

Max Fuel Capacity: 1475 gal

ARMAMENT

Guns . . . . . 4 x .50 cal (M-3)
Ammunition (tot): . . . 400 rds
*Space provisions for 200 rds/gun

CAMERAS

No. Station Lens
1 . . . . KA-2 . . . . 6" or 12"
1 . . . . K-38 . . . . 36"

Fwd Vertical
1 . . . . K-17C . . . . 6" or 12"
1 . . . . KA-2 . . . . 12"
1 . . . . E-37 . . . . 12"
1 . . . . T-11 . . . . 6"
1 . . . . L & R Side Oblique
2 . . . . K-17C . . . . 6"
1 . . . . L Side Oblique
1 . . . . KA-2 . . . . 12 or 24"
1 . . . . K-38 . . . . 24" or 36"
1 . . . . KA-2 . . . . 12"
Characteristics Summary Basic Mission

**RF-84F**
(W-3 ENGINE)

**PERFORMANCE**

<table>
<thead>
<tr>
<th>COMBAT RADIUS</th>
<th>FERRY RANGE</th>
<th>SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>710 naut. mi</td>
<td>1524 naut. mi</td>
<td>COMBAT 511 knots at 30,000 ft alt, max power</td>
</tr>
<tr>
<td>with 521 lb payload</td>
<td>with 1475 gal fuel</td>
<td>MAX 538 knots at zero ft alt, max power</td>
</tr>
<tr>
<td>at 465 knots avg.</td>
<td>at 462 knots avg.</td>
<td>BASIC 511 knots at 30,000 ft alt, max power</td>
</tr>
<tr>
<td>in 3.10 hours</td>
<td>in 3.35 hours</td>
<td></td>
</tr>
</tbody>
</table>

**CLIMB CEILING TAKE-OFF**

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3920 fpm</td>
<td>34,000 ft</td>
<td>6610 ft</td>
</tr>
<tr>
<td>sea level, take-off weight maximum power</td>
<td>100 fpm, take-off weight maximum power</td>
<td>no assist</td>
</tr>
<tr>
<td>5260 fpm</td>
<td>36,900 ft</td>
<td>8670 ft</td>
</tr>
<tr>
<td>sea level, combat weight maximum power</td>
<td>500 fpm, combat weight maximum power</td>
<td>no assist</td>
</tr>
<tr>
<td></td>
<td></td>
<td>assisted</td>
</tr>
</tbody>
</table>

**LOAD WEIGHTS STALLING SPEED**

<table>
<thead>
<tr>
<th>Ammo ... , 400 rds/50 cal Photo Equipment ... 401 lb</th>
<th>Empty..... 14,014 lb</th>
<th>144 knots power-off, landing configuration, take-off weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel:</td>
<td>Combat... 20,089 lb</td>
<td></td>
</tr>
<tr>
<td>protected 1475 gal</td>
<td>Take-off 25,390 lb</td>
<td></td>
</tr>
<tr>
<td>droppable 39</td>
<td>limited by mission</td>
<td></td>
</tr>
<tr>
<td>external 61</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES**

1. Performance Basis:
   (a) Phase IV Flight Tests

2. Revision Basis: To reflect performance data based on Phase IV Flight Tests.