Characteristics Summary

KC-97E

"STRATOFREIGHTER"

Wing Area .................................. 1768.7 sq ft
Length ...................................... 117.4 ft
Span .......................................... 141.2 ft
Height ........................................ 38.3 ft
Height (Fin folded) ......................... 26.6 ft

AVAILABILITY

<table>
<thead>
<tr>
<th>ACTIVE</th>
<th>RESERVE</th>
<th>TOTAL</th>
</tr>
</thead>
</table>

PROCUREMENT

<table>
<thead>
<tr>
<th>Number to be delivered in fiscal years</th>
</tr>
</thead>
</table>

STATUS

1. Definitive Contract: Jan 51
2. First Flight: Jun 51
3. First Acceptance: Jul 51
4. Production Completed: Mar 52

Navy Equivalent: None

Mfr’s Model: 387-4-29

POWER PLANT

(4) R-4360-65
Pratt & Whitney

ENGINE RATINGS

BHP-RPM-ALT-MIN
T.O: *3500-2700-S.L - 5

MIL: *3500-2700- 500 -30
3250-2700- 1000 -30

* Wet
Note: Increased altitude performance is available through use of external turbo supercharging

FEATURES

Removable AFR Equipment
Fuselage Pressurization
Folding Fin & Rudder
Reverse Pitch Props
Rendezvous Radar
AFR “Flying Boom” System
Cargo Conversion Kit (prov)

PERSONNEL

Crew (normal) ............... 6
Pilot
Co-pilot
Navigator
Radio Operator
Flight Engineer
Boom Operator

Max Fuel Capacity: 14,990gal
(incl AFR tanks)

9 MAR 56
Performance Summary Basic Mission

**KC-97E**

### PERFORMANCE

<table>
<thead>
<tr>
<th>Combat Radius</th>
<th>Ferry Range</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 naut. mi</td>
<td>5788 naut. mi</td>
<td>COMBAT 331 knots at 25,900 ft alt, max power</td>
</tr>
<tr>
<td>with 43,896 lb payload</td>
<td>with 14,316 gal fuel</td>
<td>MAX 331 knots at 26,000 ft alt, max power</td>
</tr>
<tr>
<td>at 202 knots avg.</td>
<td>at 191 knots avg.</td>
<td>BASIC 279 knots at 5000 ft alt, max power</td>
</tr>
<tr>
<td>in 10.8 hours</td>
<td>in 30.3 hours</td>
<td></td>
</tr>
</tbody>
</table>

**CLimb Ceiling**

- 555 fpm sec level, take-off weight, normal power
- 22,500 ft 100 fpm, take-off weight, normal power
- 2420 fpm sea level, combat weight, maximum power
- 33,050 ft 500 fpm, combat weight, maximum power

**Take-Off**

- 6500 ft ground run, no assist
- 8150 ft over 50 ft height, assisted

**Load Weights**

- Transfer fuel: 43,896 lb
- Fuel: 7000 gal
  - protected
  - droppable
  - external

- Empty: 83,987 lb
- Combat: 102,205 lb
- Take-off: 175,000 lb

**Stalling Speed**

- 108 knots power-off, landing configuration, take-off weight

**Time to Climb**

**Notes**

1. Performance Basis:
   - (a) Flight Test
   - (b) Maximum power is the same as normal power above 6500 ft.

2. Revision Basis: To revise security classification, power plant designation and guaranteed engine ratings.