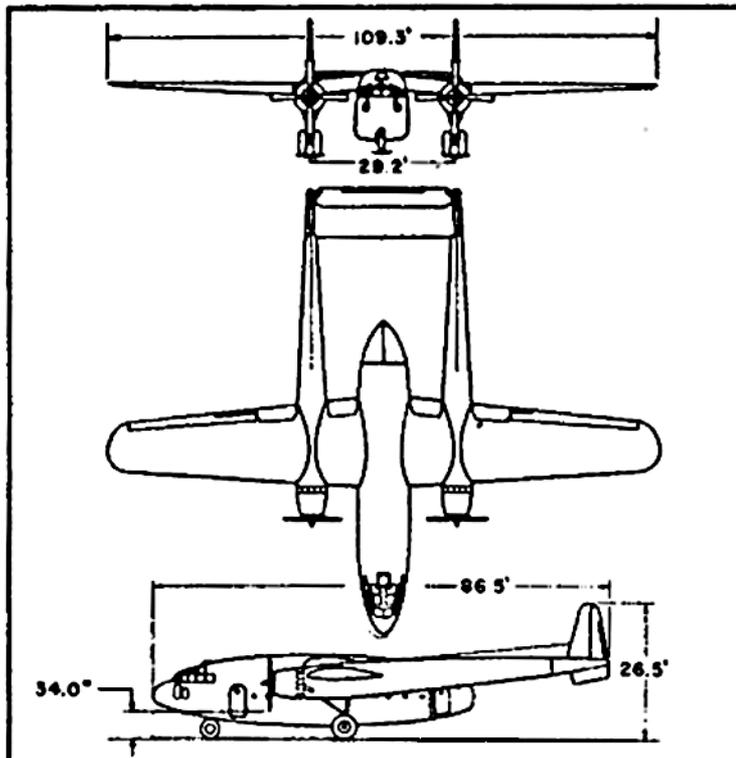




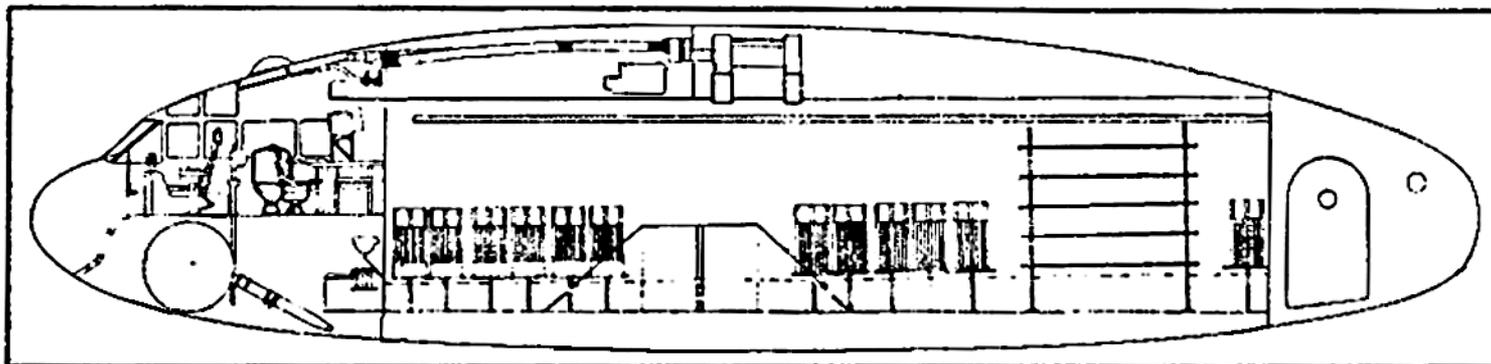
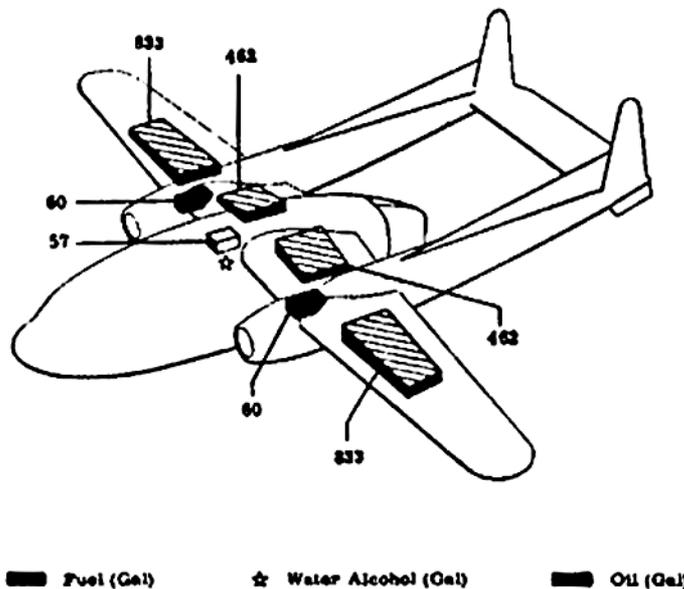
STANDARD AIRCRAFT CHARACTERISTICS

R4Q-2 "PACKET"

FAIRCHILD



Wing Area 1447.2 sq ft Wing Section
 Aspect Ratio 8.35 (root) NACA 2418
 M. A. C. 168.3 in. (tip) NACA 4408



Standard Aircraft Characteristics NAVAR 1335B (Rev. 1-55)

POWER PLANT

NO. & MODEL.....(2) R-3350-85
 MFR.....Wright
 SUPERCH.....1 Stage, 2 speed
 RED. GEAR RATIO.....0.4375
 PROP. MFR.....Hamilton Standard
 BLD. DES. NO.....2J17G3-26R
 NO. BLD./DIA.....4/15'

RATINGS

	BHP	RPM	ALT.
T. O.	*3,500	2,900	S.L.
	3,250	2,900	S.L.
MIL.	3,250	2,900	3,500'
	2,550	2,600	15,400'
NORM.	2,650	2,600	6,500'
	2,450	2,600	16,600'

SPEC. No. 868B

*Water Injection

MISSION AND DESCRIPTION

The principal mission of the R4Q-2 is to transport cargo, personnel, litter patients, mechanized equipment and/or paratroops.

The cargo compartment is designed to provide ease of loading and unloading. Two large doors at the aft end swing outward to expose the full height and width of the cargo compartment. Two metal ramps are provided for landing mobile equipment. A door is provided in each of the large cargo doors to give paratroops a convenient exit free from obstructions.

The monorail system is incorporated for aerial delivery of paracans through doors in the floor of the cargo compartment.

DEVELOPMENT

First Flight.....February 1953
 Service Use.....March 1953

WEIGHTS

LOADINGS	LBS.	L.F.
EMPTY.....	40,118.....	
BASIC.....	49,476.....	
DESIGN.....	64,000.....	3.0
MAX. T.O.....	77,000.....	
MAX. LDC.....	77,000.....	

All Weights Are Actual

FUEL AND OIL

GALS.	NO. TANKS	LOCATION
2,590	4	Wings
FUEL GRADE.....		115/145
FUEL SPEC...applicable...		MIL-F-5572

OIL

CAPACITY.....	120 gals.
GRADE.....	W 1100
SPEC.....applicable...	MIL-L-6082

ACCOMMODATIONS

CREW.....5
 TROOPS (Normal).....42
 TROOPS (max.).....62
 LITTERS.....35
 ATTENDANTS.....4
 MAX. CARGO.....31,500#
 CARGO COMPARTMENT:
 LENGTH.....36' - 11"
 WIDTH.....9' - 10"
 HEIGHT.....8' - 0"
 REAR LOADING DOOR:
 WIDTH.....9' - 10"
 HEIGHT.....8' - 0"

DIMENSIONS

WING
 AREA.....1,447 Sq. Ft.
 SPAN.....109' - 3"
 LENGTH.....86' - 6"
 HEIGHT.....26' - 6"
 TREAD.....29' - 2"
 PROP. GRD. CLEAR.....2' - 10"

ELECTRONICS

UHF COMMAND.....AN/ARC-27
 VHF COMMAND.....AN/ARC-3
 LIAISON.....AN/ARC-8
 LORAN.....AN/APN-9
 RADIO COMPASS.....AN/ARN-6
 OHMI RANGE.....AN/ARN-14
 GLIDE PATH.....AN/ARN-18
 INTERPHONE.....AN/AIC-8
 MARKER BEACON.....AN/ARN-12
 RADIO ALTIMETER.....AN/APN-1
 NAVIGATION RADAR.....AN/APN-12
 IFF.....AN/APX-6
 EMERGENCY KEYS.....AN/ARA-26

PERFORMANCE SUMMARY

TAKE-OFF LOADING CONDITION		(1) BASIC MISSION TRANSPORT	(3) MAXIMUM NORMAL TRANSPORT	(4) MAXIMUM OVERLOAD TRANSPORT	(5) FERRY	
TAKE-OFF WEIGHT	lb.	77,000	72,000	77,000	58,371	
Fuel	lb.	13,519	13,044	15,540	15,540	
Fayload	lb.	20,650	16,125	18,629	--	
Wing loading	lb./sq.ft.	53.2	49.7	53.2	40.3	
Stall speed - power-off	kn.	97	94	97	85	
Take-off run at S.L. - calm	(A) ft.	3,875	3,240	3,875	1,900	
Take-off run at S.L. kn. wind	ft.	--	--	--	--	
Take-off to clear 50 ft. - calm	(A) ft.	6,620	5,400	6,620	3,050	
Max. speed/altitude	(C) kn./ft.	233/18,500	235/18,500	233/18,500	250/18,500	
Rate of climb at S.L.	(C) fpm.	795	925	795	1,395	
Time: S.L. to 10,000 ft.	(C) min.	14.9	12.5	14.9	8.1	
Time: S.L. to 20,000 ft.	(C) min.	42.0	32.0	42.0	18.3	
Service ceiling (100 fpm)	(C) ft.	21,900	23,100	21,400	27,500	
Combat range	n.mi.	1,460	1,510	1,735	2,120	
Average cruising speed	kn.	158	159	158	164	
Cruising altitude(s)	ft.	5,000	5,000	5,000	5,000	
Combat radius	n.mi.	750	750	880	--	
Average cruising speed	kn.	162	162	161	--	
Mission time	hr.	9.3	9.3	11.0	--	
COMBAT LOADING CONDITION		(2)				
COMBAT WEIGHT	lb.	49,368				
Engine power		Military				
Fuel	lb.	6,548				
Combat speed/combat altitude	kn./ft.	218/5,000				
Rate of climb/combat altitude	fpm/ft.	2,100/5,000				
Combat ceiling (500 fpm)	ft.	26,600				
Rate of climb at S.L.	fpm.	2,320				
Max. speed at S.L.	kn.	238				
Max. speed/altitude	kn./ft.	265/17,900				
LANDING WEIGHT	lb.	43,972	43,964	44,080	44,080	
Fuel	lb.	1,152	1,144	1,250	1,250	
Stall speed - power-off	kn.	73	73	73	73	
Stall speed - with approach power	kn.	68	68	68	68	

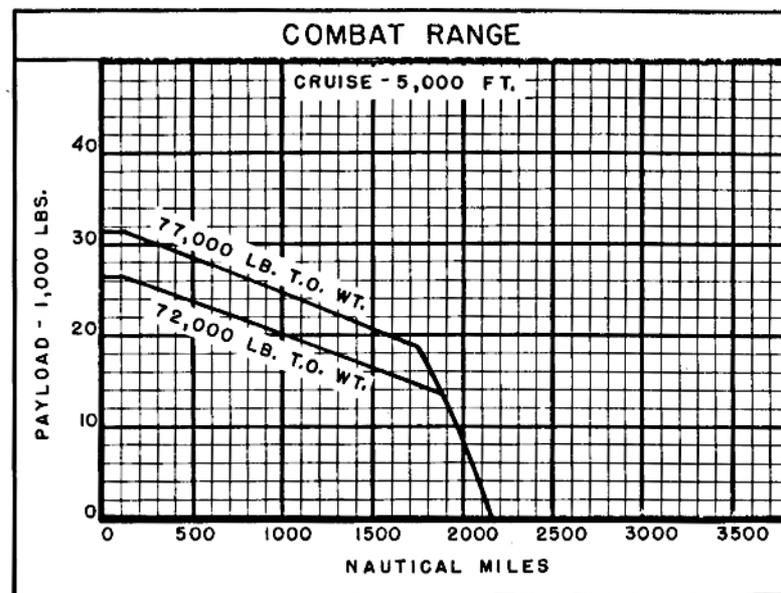
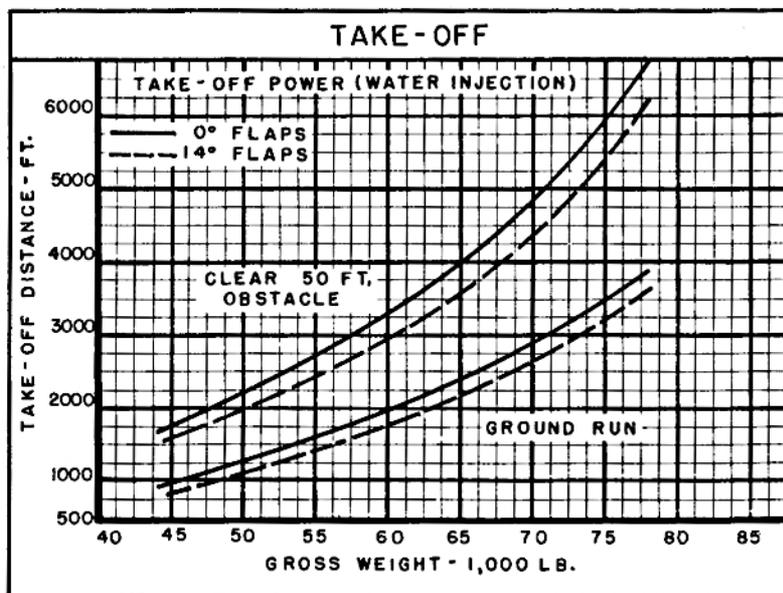
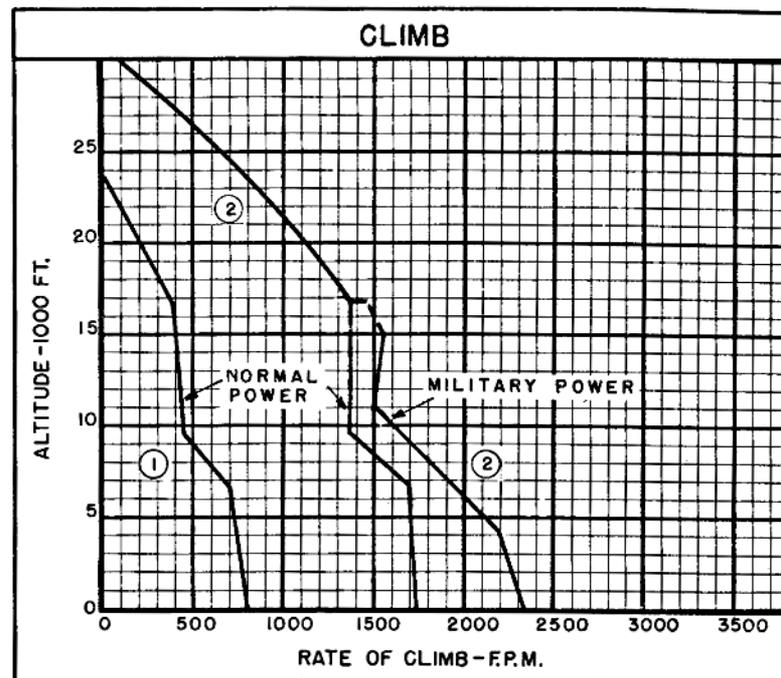
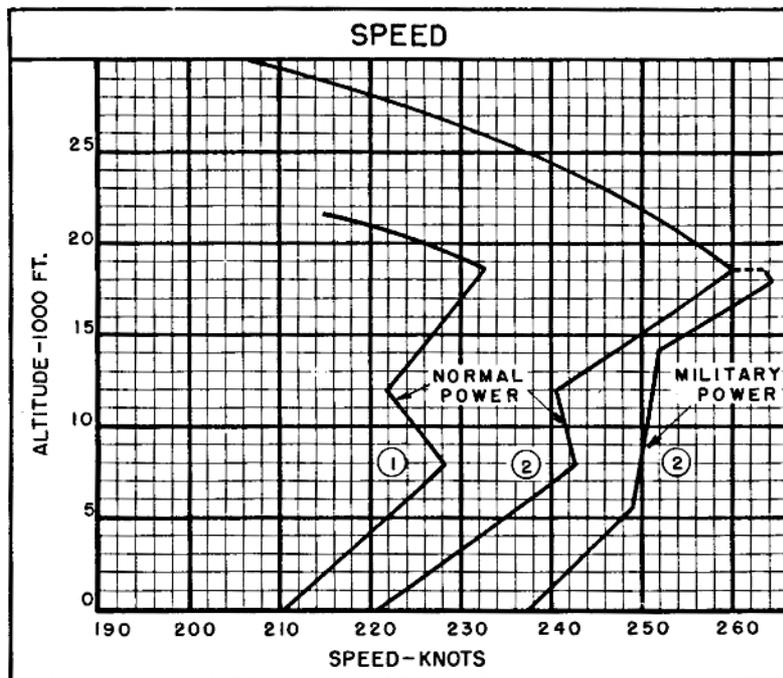
NOTES

(A) TAKE-OFF POWER (Water Injection).

(B) MILITARY POWER.

(C) NORMAL POWER.

PERFORMANCE BASIS: Performance is based on in-flight test data of the USAF Model C-119F airplane.



○ LOADING CONDITION COLUMN NUMBER

Standard Aircraft Characteristics NAVAER 1335E (Rev. 1-55)

NOTES

COMBAT RANGE

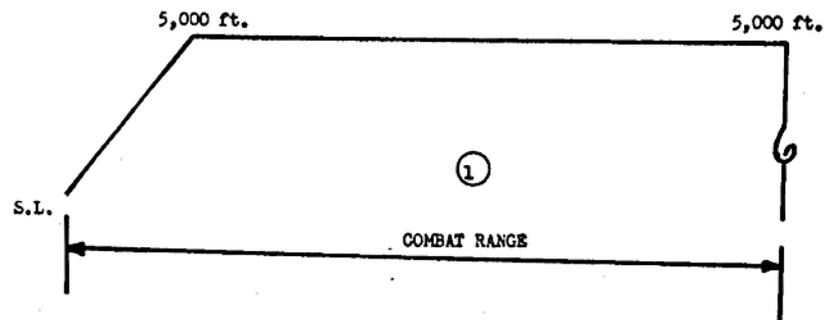
WARM-UP, TAKE-OFF, ACCELERATION: 10 minutes at normal rated power.

CLIMB: On course to 5,000 feet at normal rated power.

CRUISE: At speed for long range at 5,000 feet.

RESERVE: 30 minutes at speed for long range at sea level plus 5% of initial fuel.

$$\text{COMBAT RANGE} = \text{CLIMB} + \text{CRUISE}$$



○ LOADING CONDITION COLUMN NUMBER