

**F.A.A. Approved
Airplane Flight Manual
for**



Model 415-D



Univair Aircraft Corporation

2500 Himalaya Road • Aurora, Colorado • 80011-8156
Toll Free Sales..... 1-888-433-5433
Info Phone 303-375-8882
Fax 800-457-7811 or 303-375-8888
Email..... info@univair.com
Website..... www.univair.com

DFM

ERCO REPORT

D. Performance Information

Note: All speeds listed in the following data are true indicated airspeeds (TIAS.) For indicated airspeeds (IAS) see Chart No. 1, page 12.

1. Stall Speed

Power off 56 M.P.H., TIAS., (with center of gravity at 17.6% M.A.C.)

2. Take Off Distance

Take off distance to clear a 50 foot obstruction at 1400 lbs., gross weight, full, throttle, 75 M.P.H., TIAS., zero wind and paved runway.

Fixed Pitch Wood Propeller						
Pressure Altitude	Outside Air Temperature					
	0° F	20° F	40° F	60° F	80° F	100° F
S.L.	1850	1950	2000	2100	2200	2300
2000 ft.	2350	2450	2550	2700	2800	3000
4000 ft.	3000	3200	3350	3600	3800	4050
6000 ft.	4050	4450	4700	5000	5450	5900

Fixed Pitch Metal Propeller (McCauley 1A-90)

Pressure Altitude	Outside Air Temperature					
	0° F	20° F	40° F	60° F	80° F	100° F
S. L.	1650	1750	1850	1950	2000	2100
2000 ft.	2100	2250	2400	2500	2650	2800
4000 ft.	2800	3050	3250	3500	3700	3950
6000 ft.	4000	4450	4800	5200	5750	6250

3. Landing Distance

Landing distance over a 50 foot obstruction at 1400 lb. gross weight, center of gravity at 17.6% M.A.C., power off, zero wind and paved runway.

Approach speed 75 M.P.H.

Pressure Altitude	Outside Air Temperature					
	0° F	20° F	40° F	60° F	80° F	100° F
S. L.	1600	1650	1700	1750	1800	1850
2000 ft.	1700	1750	1800	1850	1900	1950
4000 ft.	1800	1850	1900	1950	2000	2100
6000 ft.	1900	1950	2000	2100	2150	2200

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