

PERFORMANCE - SPECIFICATIONS

Model 182*

Skylane*

GROSS WEIGHT	2800 lbs	2800 lbs
SPEED:		
Top Speed at Sea Level	167 mph	170 mph
Cruise, 75% Power at 6500 ft	159 mph	162 mph
RANGE:		
Cruise, 75% Power at 6500 ft	685 miles	695 miles
60 Gallons, No Reserve	4.3 hours	4.3 hours
	159 mph	162 mph
Cruise, 75% Power at 6500 ft	905 miles	925 miles
79 Gallons, No Reserve	5.7 hours	5.7 hours
	159 mph	162 mph
Optimum Range at 10,000 ft	905 miles	925 miles
60 Gallons, No Reserve	7.6 hours	7.6 hours
	119 mph	121 mph
Optimum Range at 10,000 ft	1190 miles	1215 miles
79 Gallons, No Reserve	10.0 hours	10.0 hours
	119 mph	121 mph
RATE OF CLIMB AT SEA LEVEL	980 fpm	980 fpm
SERVICE CEILING	18,900 ft	18,900 ft
TAKE-OFF:		
Ground Run	625 ft	625 ft
Total Distance Over 50-Foot Obstacle.	1205 ft	1205 ft
LANDING:		
Ground Roll	590 ft	590 ft
Total Distance Over 50-Foot Obstacle.	1350 ft	1350 ft
EMPTY WEIGHT (Approximate)	1580 lbs	1635 lbs
BAGGAGE	120 lbs	120 lbs
WING LOADING: Pounds/Sq Foot	16.1	16.1
POWER LOADING: Pounds/HP	12.2	12.2
FUEL CAPACITY: Total		
Standard Tanks	65 gal.	65 gal.
Optional Long Range Tanks	84 gal.	84 gal.
OIL CAPACITY: Total	12 qts	12 qts
PROPELLER: Constant Speed (Diameter)	82 inches	82 inches
ENGINE: Continental Engine.	O-470-R	O-470-R
230 rated BHP at 2600 RPM		

*This manual covers operation of the Model 182/Skylane which is certificated as Model 182M under FAA Type Certificate No. 3A13.

CRUISE PERFORMANCE

LEAN MIXTURE

Standard Conditions \searrow Zero Wind \searrow Gross Weight- 2800 Pounds

RPM	MP	% BHP	GAL/HOUR	TAS MPH	60 GAL (NO RESERVE)		79 GAL (NO RESERVE)	
					ENDR. HOURS	RANGE MILES	ENDR. HOURS	RANGE MILES
2500 FEET								
2450	23	76	14.2	158	4.2	670	5.6	885
	22	72	13.4	154	4.5	690	5.9	910
	21	68	12.7	151	4.7	715	6.2	940
	20	63	12.0	148	5.0	730	6.6	965
2300	23	71	13.1	154	4.6	700	6.0	925
	22	67	12.2	149	4.9	740	6.5	970
	21	62	11.5	145	5.2	760	6.9	1005
	20	59	11.0	142	5.5	775	7.2	1020
2200	23	67	12.1	149	5.0	745	6.5	980
	22	63	11.4	146	5.3	770	6.9	1010
	21	59	10.8	142	5.6	790	7.3	1040
	20	55	10.2	138	5.9	810	7.7	1065
2000 MAXIMUM RANGE SETTINGS	20	47	8.7	126	6.9	865	9.1	1135
	19	43	8.2	121	7.3	890	9.6	1170
	18	39	7.5	113	8.0	900	10.5	1185
	17	35	7.0	105	8.6	905	11.3	1190
5000 FEET								
2450	23	78	14.5	163	4.1	670	5.4	885
	22	73	13.6	159	4.4	700	5.8	925
	21	70	13.0	156	4.6	720	6.1	950
	20	65	12.2	151	4.9	750	6.5	985
2300	23	73	13.4	158	4.5	710	5.9	930
	22	69	12.6	155	4.7	730	6.3	965
	21	64	11.9	151	5.0	760	6.6	1005
	20	60	11.2	146	5.4	785	7.1	1035
2200	23	68	12.4	155	4.8	750	6.4	985
	22	64	11.7	151	5.1	775	6.8	1020
	21	60	11.0	146	5.5	800	7.2	1050
	20	57	10.5	143	5.7	815	7.5	1075
2000 MAXIMUM RANGE SETTINGS	19	45	8.5	126	7.1	895	9.3	1175
	18	41	7.9	118	7.6	905	10.0	1190
	17	37	7.3	111	8.2	910	10.8	1200
	16	34	6.8	103	8.8	905	11.6	1190

Figure 5-4 (Sheet 1 of 3).

CRUISE PERFORMANCE

LEAN MIXTURE

Standard Conditions \searrow Zero Wind \searrow Gross Weight- 2800 Pounds

RPM	MP	% BHP	GAL/HOUR	TAS MPH	60 GAL (NO RESERVE)		79 GAL (NO RESERVE)	
					ENDR. HOURS	RANGE MILES	ENDR. HOURS	RANGE MILES
7500 FEET								
2450	21	71	13.1	161	4.6	730	6.0	960
	20	67	12.4	157	4.8	760	6.4	1005
	19	62	11.7	152	5.1	780	6.8	1025
	18	58	11.0	147	5.5	805	7.2	1055
2300	21	66	12.2	156	4.9	760	6.5	1005
	20	62	11.6	151	5.2	780	6.8	1025
	19	58	11.0	147	5.5	800	7.2	1050
	18	54	10.5	142	5.7	810	7.5	1065
2200	21	62	11.4	152	5.3	805	6.9	1055
	20	58	10.7	148	5.6	830	7.4	1090
	19	54	10.2	143	5.9	840	7.7	1105
	18	51	9.7	138	6.2	860	8.1	1130
2000 MAXIMUM RANGE SETTINGS	19	47	8.7	131	6.9	900	9.1	1185
	18	43	8.1	123	7.4	910	9.8	1200
	17	39	7.6	116	7.9	920	10.4	1210
	16	36	7.0	107	8.6	920	11.3	1210
10,000 FEET								
2450	19	63	11.9	156	5.0	785	6.6	1035
	18	60	11.2	152	5.3	810	7.1	1065
	17	55	10.6	146	5.7	830	7.5	1090
	16	51	10.0	141	6.0	840	7.9	1105
2300	19	60	11.1	152	5.4	820	7.1	1080
	18	56	10.5	147	5.7	840	7.5	1105
	17	51	9.8	141	6.1	860	8.1	1130
	16	47	9.2	134	6.5	870	8.6	1145
2200	19	56	10.4	148	5.7	850	7.6	1120
	18	52	9.8	142	6.1	875	8.1	1155
	17	49	9.3	136	6.5	880	8.5	1160
	16	45	8.7	129	6.9	895	9.1	1175
2000 MAXIMUM RANGE SETTINGS	18	44	8.4	128	7.1	910	9.4	1200
	17	40	7.8	120	7.7	925	10.1	1215
	16	38	7.4	114	8.1	925	10.7	1215
	15	35	6.9	105	8.7	910	11.4	1200

Figure 5-4 (Sheet 2 of 3).

CRUISE PERFORMANCE

LEAN MIXTURE

Standard Conditions \searrow Zero Wind \searrow Gross Weight-2800 Pounds

RPM	MP	% BHP	GAL/HOUR	TAS MPH	60 GAL (NO RESERVE)		79 GAL (NO RESERVE)	
					ENDR. HOURS	RANGE MILES	ENDR. HOURS	RANGE MILES
15,000 FEET								
2450	16	54	10.4	150	5.8	865	7.6	1135
	15	50	9.8	142	6.1	875	8.1	1155
	14	46	9.2	135	6.5	880	8.6	1160
2300	16	50	9.6	143	6.2	890	8.2	1170
	15	47	9.1	136	6.6	900	8.7	1185
	14	42	8.5	127	7.1	900	9.3	1185
2200	16	47	9.1	138	6.6	910	8.7	1200
	15	44	8.6	130	7.0	910	9.2	1200
	14	40	8.0	120	7.5	905	9.9	1190
2000 MAXIMUM RANGE SETTINGS	16	40	7.8	122	7.7	940	10.1	1240
	15	37	7.3	112	8.2	920	10.8	1210
	14	34	6.8	101	8.8	895	11.6	1175
20,000 FEET								
2450	13	44	9.0	133	6.7	895	8.8	1175
	12	40	8.3	122	7.2	875	9.5	1155
2300	13	42	8.4	126	7.1	905	9.4	1190
	12	38	7.7	113	7.8	875	10.3	1155
2200	13	39	7.8	118	7.7	905	10.1	1190
	12	35	7.2	103	8.3	865	11.0	1135

Figure 5-4 (Sheet 3 of 3).