

Fuel

Total Capacity 94.5 U.S. Gallons (358.0 L)

Total Usable 92.0 U.S. Gallons (348.0 L)

Approved Fuel Grades:

100 LL Grade Aviation Fuel (Blue)

100 (Formerly 100/130) Grade Aviation Fuel (Green)

Oil

Oil Capacity (Sump) 8 U.S. Quarts (7.6 L)

Oil Grades:

All Temperatures 15W-50, 20W-50 or 20W-60

Above 40°F (4°C) SAE 50, 20W50, or 20W60

Below 40°F (4°C)..... SAE 30, 10W30, 15W50, or 20W50

Maximum Certificated Weights

Maximum Gross for Takeoff..... 3600 lb (1633 Kg)

Maximum Zero Fuel Weight 3400 lb (1542 Kg)

Maximum Baggage Compartment Loading 130 lb (59 Kg)

Cabin and Entry Dimensions

Refer to the preceding figures for dimensions of the cabin interior and entry door openings.

Baggage Spaces and Entry Dimensions

Refer to the preceding figures for dimensions of the baggage area and baggage door opening.

Specific Loadings

Wing Loading..... 24.8 lb per square foot

Power Loading..... 11.4 lb per hp

Taxi Power

Maximum continuous engine speed for taxiing is 1000 RPM on flat, smooth, hard surfaces. Power settings slightly above 1000 RPM are permissible to start motion, for turf, soft surfaces, and on inclines. Use minimum power to maintain taxi speed.

Fuel Limits

Approved Fuel Aviation Grade 100 LL (Blue) or 100 (Green)
Total Fuel Capacity 94.5 U.S. Gallon (358.0 L)
Total Fuel Each Tank 47.25 U.S. Gallon (179.0 L)
Total Usable Fuel (all flight conditions) 92.0 U.S. Gallon (348.0 L)
Maximum Allowable Fuel Imbalance 10.0 U.S. Gallon (37.9 L)

The fuel pump must be set to BOOST for takeoff, climb, landing, and for switching fuel tanks.

Altitude Limits

Maximum Takeoff Altitude 10,000 Feet MSL
Maximum Operating Altitude 25,000 Feet MSL

The operating rules (FAR Part 91 and FAR Part 135) require the use of supplemental oxygen at specified altitudes below the maximum operating altitude.

Environmental Conditions

Do not operate the airplane below an outside air temperature of -40°F (-40°C).

Time, Fuel & Distance to Climb: Full Power Climb

Conditions:

- Power Full Throttle
- Mixture Maintain Fuel Flow in GREEN ARC
- Weight 3600 LB
- Winds Zero
- Climb Airspeed 120 KIAS

• Note •

Taxi Fuel - Add 1.5 gallon for start, taxi, and takeoff.

Temperature - Add 10% to computed values for each 10° C above standard.

Fuel flow must be maintained in the dynamic green arc, per AFM Full Power Climb: Rich of Peak Technique procedure.

Press Alt FT	OAT (ISA) °C	Climb Speed KIAS	TIME, FUEL, DISTANCE ~ From Sea Level		
			Time Minutes	Fuel U.S. Gal	Distance NM
S.L.	15	120	0.0	0.0	0.0
1000	13	120	0.9	0.5	1.7
2000	11	120	1.7	1.0	3.5
3000	9	120	2.6	1.6	5.4
4000	7	120	3.5	2.1	7.2
5000	5	120	4.4	2.6	9.2
6000	3	120	5.3	3.2	11.1
7000	1	120	6.2	3.7	13.2
8000	-1	120	7.1	4.3	15.2
9000	-3	120	8.0	4.8	17.4
10000	-5	120	9.0	5.4	19.5
11000	-7	120	9.9	6.0	21.8
12000	-9	120	10.9	6.5	24.1
13000	-11	120	11.9	7.1	26.4
14000	-13	120	12.8	7.7	28.9
15000	-15	120	13.8	8.3	31.4
16000	-17	120	14.8	8.9	33.9
17000	-19	120	15.8	9.5	36.5
18000	-21	120	16.8	10.1	39.2
19000	-23	120	17.9	10.7	42.0
20000	-25	120	18.9	11.3	44.9
21000	-27	120	20.0	11.9	47.8
22000	-29	120	21.2	12.6	51.1
23000	-31	120	22.5	13.3	54.9
24000	-33	120	24.0	14.2	59.4
25000	-35	120	25.7	15.1	64.6

Time, Fuel & Distance to Climb: Cruise Climb

Conditions:

- Power 30.5" MAP
- Mixture Target Fuel flow or less
- Weight 3600 LB
- Winds Zero
- Climb Airspeed 120 KIAS

• Note •

Taxi Fuel - Add 1.5 gallon for start, taxi, and takeoff.

Temperature - Add 10% to computed values for each 10° C above standard.

Fuel flow must be leaned to target fuel flow or less, per AFM Cruise Climb:
Lean of Peak Technique procedure.

If temperatures do not promote lean of peak climb, use AFM Full Power
Climb: Rich of Peak Technique procedures and tables.

Press Alt	OAT (ISA)	Climb Speed	TIME, FUEL, DISTANCE ~ From Sea Level		
			Time Minutes	Fuel U.S. Gal	Distance NM
FT	°C	KIAS			
S.L.	15	120	0.0	0.0	0.0
1000	13	120	1.1	0.3	2.2
2000	11	120	2.2	.07	4.4
3000	9	120	3.3	1.0	6.7
4000	7	120	4.4	1.3	9.1
5000	5	120	5.5	1.7	11.5
6000	3	120	6.7	2.0	14.0
7000	1	120	7.8	2.4	16.6
8000	-1	120	9.0	2.7	19.2
9000	-3	120	10.2	3.1	21.9
10000	-5	120	11.4	3.5	24.7
11000	-7	120	12.6	3.8	27.6
12000	-9	120	13.8	4.2	30.6
13000	-11	120	15.1	4.6	33.6
14000	-13	120	16.3	5.0	36.8
15000	-15	120	17.6	5.4	40.0
16000	-17	120	18.9	5.8	43.3
17000	-19	120	20.2	6.2	46.8
18000	-21	120	21.6	6.6	50.3
19000	-23	120	22.9	7.0	53.8
20000	-25	120	24.1	7.4	57.3
21000	-27	120	25.4	7.7	60.7
22000	-29	120	26.7	8.1	64.5
23000	-31	120	28.2	8.6	68.7
24000	-33	120	29.7	9.1	73.3
25000	-35	120	31.5	9.6	78.6

Cruise Performance

Conditions:

- Weight 3400 LB
- Winds Zero

• Note •

Subtract 10 KTAS if nose wheel pant and fairing removed. Lower KTAS by 10% if nose and main wheel pants and fairings are removed.

Aircraft with optional Air Conditioning System: Cruise performance is reduced by 2 knots. For maximum performance, turn air conditioner off.

Aircraft with optional Enhanced Vision System: Cruise performance is reduced by up to 1 knot.

The Values shown in gray in the table below may not be achievable for engine temperature management reasons. This data is provided for purposes of interpolating between points.

CRUISE PERFORMANCE			ISA -30°C		ISA		ISA +30°C	
Altitude (ft MSL)	Power (% of 315)	FF (GPH)	TAS (KTAS)	Econ (nm/gal)	TAS (KTAS)	Econ (nm/gal)	TAS (KTAS)	Econ (nm/gal)
2000	85%	18.3	164	9.0	170	9.3	176	9.6
	75%	16.4	157	9.6	162	9.9	167	10.2
	65%	14.6	148	10.2	154	10.5	158	10.8
	55%	12.7	138	10.9	143	11.2	147	11.5
4000	85%	18.3	168	9.1	174	9.5	179	9.8
	75%	16.4	160	9.7	165	10.1	170	10.4
	65%	14.6	151	10.3	156	10.7	161	11.0
	55%	12.7	140	11.0	145	11.4	149	11.8
6000	85%	18.3	171	9.3	177	9.7	183	10.0
	75%	16.4	163	9.9	168	10.2	174	10.6
	65%	14.6	153	10.5	159	10.9	163	11.2
	55%	12.7	143	11.2	147	11.6	152	11.9
8000	85%	18.3	174	9.5	180	9.8	186	10.2
	75%	16.4	166	10.1	171	10.4	177	10.8
	65%	14.6	156	10.7	161	11.1	166	11.4
	55%	12.7	145	11.4	150	11.8	154	12.1
10000	85%	18.3	177	9.7	184	10.0	190	10.4
	75%	16.4	169	10.3	175	10.6	180	11.0
	65%	14.6	159	10.9	164	11.3	169	11.6
	55%	12.7	148	11.6	152	12.0	157	12.3

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CRUISE PERFORMANCE			ISA -30°C		ISA		ISA +30°C	
Altitude (ft MSL)	Power (% of 315)	FF (GPH)	TAS (KTAS)	Econ (nm/gal)	TAS (KTAS)	Econ (nm/gal)	TAS (KTAS)	Econ (nm/gal)
12000	85%	18.3	181	9.9	187	10.2	193	10.6
	75%	16.4	172	10.4	178	10.8	183	11.2
	65%	14.6	162	11.1	167	11.5	172	11.8
	55%	12.7	150	11.8	155	12.2	159	12.5
14000	85%	18.3	184	10.0	191	10.4	197	10.8
	75%	16.4	175	10.6	181	11.0	187	11.4
	65%	14.6	165	11.3	170	11.7	175	12.0
	55%	12.7	153	12.0	157	12.4	162	12.7
16000	85%	18.3	187	10.2	194	10.6	201	11.0
	75%	16.4	178	10.8	185	11.2	191	11.6
	65%	14.6	167	11.5	173	11.9	179	12.2
	55%	12.7	155	12.2	160	12.6	164	12.9
18000	85%	18.3	191	10.4	198	10.8	205	11.0
	75%	16.4	181	11.0	188	11.4	194	11.8
	65%	14.6	171	11.7	176	12.1	182	12.5
	55%	12.7	158	12.4	162	12.8	167	13.1
20000	85%	18.3	195	10.6	202	11.0	209	11.4
	80%	17.4	190	10.9	197	11.3	204	11.7
	75%	16.4	185	11.2	192	11.7	198	12.0
	65%	14.6	174	11.9	180	12.3	185	12.7
	55%	12.7	160	12.6	165	13.0	169	13.3
22000	85%	18.3	199	10.8	206	11.3	213	11.6
	80%	17.4	194	11.1	201	11.6	208	12.0
	75%	16.4	188	11.5	195	11.9	202	12.3
	65%	14.6	177	12.1	183	12.5	188	12.9
	55%	12.7	163	12.8	168	13.2	172	13.5
24000	85%	18.3	202	11.1	210	11.5	218	11.9
	80%	17.4	197	11.4	205	11.8	212	12.2
	75%	16.4	192	11.7	199	12.1	206	12.5
	65%	14.6	180	12.3	186	12.8	191	13.1
	55%	12.7	165	13.0	170	13.4	174	13.7

Range / Endurance: Full Power Climb

Conditions:

- Mixture Best Economy - Target Fuel Flow or less
- Weight 3600 LB for Climb, Avg 3400 LB for Cruise
- Winds Zero
- Total Fuel 92 Gallons

• Note •

Fuel Remaining for Cruise is equal to 92.0 gallons usable, less 1.5 gallons (pre-takeoff fuel consumed), 11 gallons (45 minute IFR reserve at 65% power), and listed volume for fuel consumed in Full Power Climb.

Range is decreased by 5% if nose wheel pant and fairings removed.

Range is decreased by 15% of nose wheel and main wheel pants and fairings removed.

For aircraft with optional Air Conditioning System: range is decreased by 1% if system in operation.

Aircraft with optional Enhanced Vision System: range is decreased by ½%.

Range / Endurance: 85% Power Cruise - Full Power Climb							
Press Alt FT	Climb Fuel Gal	Fuel Remaining For Cruise Gal	Airspee d KTAS	Fuel Flow GPH	Endurance Hours	Range NM	Specific Range Nm/Gal
2000	1.0	78.5	170	18.3	4.3	734	9.3
4000	2.1	77.5	174	18.3	4.2	742	9.5
6000	3.2	76.4	177	18.3	4.2	749	9.7
8000	4.3	75.3	180	18.3	4.1	756	9.8
10000	5.4	74.2	184	18.3	4.0	763	10.0
12000	6.5	73.0	187	18.3	4.0	770	10.2
14000	7.7	71.9	191	18.3	3.9	777	10.4
16000	8.9	70.7	194	18.3	3.9	784	10.6
18000	10.1	69.4	198	18.3	3.8	791	10.8
20000	11.3	68.2	202	18.3	3.7	798	11.0
22000	12.6	66.9	206	18.3	3.7	805	11.3
24000	14.2	65.4	210	18.3	3.6	810	11.5
25000	15.1	64.4	213	18.3	3.5	812	11.6

Range / Endurance: 75% Power Cruise - Full Power Climb							
Press Alt FT	Climb Fuel Gal	Fuel Remaining For Cruise Gal	Airspee d KTAS	Fuel Flow GPH	Endurance Hours	Range NM	Specific Range Nm/Gal
2000	1.0	78.5	162	16.4	4.8	779	9.9
4000	2.1	77.5	165	16.4	4.7	786	10.1
6000	3.2	76.4	168	16.4	4.6	793	10.2
8000	4.3	75.3	171	16.4	4.6	800	10.4
10000	5.4	74.2	175	16.4	4.5	807	10.6
12000	6.5	73.0	178	16.4	4.4	814	10.8
14000	7.7	71.9	181	16.4	4.4	821	11.0
16000	8.9	70.7	185	16.4	4.3	827	11.2
18000	10.1	69.4	188	16.4	4.2	834	11.4
20000	11.3	68.2	192	16.4	4.2	841	11.7
22000	12.6	66.9	195	16.4	4.1	847	11.9
24000	14.2	65.4	199	16.4	4.0	852	12.1
25000	15.1	64.4	201	16.4	3.9	853	12.2

Range / Endurance: 65% Power Cruise - Full Power Climb							
Press Alt FT	Climb Fuel Gal	Fuel Remaining For Cruise Gal	Airspee d KTAS	Fuel Flow GPH	Endurance Hours	Range NM	Specific Range Nm/Gal
2000	1.0	78.5	153	14.6	5.4	828	10.5
4000	2.1	77.5	156	14.6	5.3	835	10.7
6000	3.2	76.4	159	14.6	5.2	842	10.9
8000	4.3	75.3	161	14.6	5.2	848	11.1
10000	5.4	74.2	164	14.6	5.1	855	11.3
12000	6.5	73.0	167	14.6	5.0	861	11.5
14000	7.7	71.9	170	14.6	4.9	868	11.7
16000	8.9	70.7	173	14.6	4.8	874	11.9
18000	10.1	69.4	176	14.6	4.8	879	12.1
20000	11.3	68.2	180	14.6	4.7	885	12.3
22000	12.6	66.9	183	14.6	4.6	890	12.5

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Range / Endurance: 65% Power Cruise - Full Power Climb							
Press Alt FT	Climb Fuel Gal	Fuel Remaining For Cruise Gal	Airspee d KTAS	Fuel Flow GPH	Endurance Hours	Range NM	Specific Range Nm/Gal
24000	14.2	65.4	186	14.6	4.5	893	12.8
25000	15.1	64.4	188	14.6	4.4	894	12.9

Range / Endurance: 55% Power Cruise - Full Power Climb							
Press Alt FT	Climb Fuel Gal	Fuel Remaining For Cruise Gal	Airspee d KTAS	Fuel Flow GPH	Endurance Hours	Range NM	Specific Range Nm/Gal
2000	1.0	78.5	143	12.7	6.2	884	11.2
4000	2.1	77.5	145	12.7	6.1	890	11.4
6000	3.2	76.4	147	12.7	6.0	896	11.6
8000	4.3	75.3	150	12.7	5.9	902	11.8
10000	5.4	74.2	152	12.7	5.8	908	12.0
12000	6.5	73.0	155	12.7	5.7	913	12.2
14000	7.7	71.9	157	12.7	5.6	918	12.4
16000	8.9	70.7	160	12.7	5.6	922	12.6
18000	10.1	69.4	162	12.7	5.5	926	12.8
20000	11.3	68.2	165	12.7	5.4	930	13.0
22000	12.6	66.9	168	12.7	5.3	933	13.2
24000	14.2	65.4	170	12.7	5.1	934	13.4
25000	15.1	64.4	171	12.7	5.1	932	13.5