



## Liquid Oxygen Use Time Chart: Duration

Model	Off	0.031	0.05	0.063	0.10	0.12	0.125	0.20	0.25	0.30	0.375	0.40	0.50	0.625	0.75	1.00	1.25	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00	8.00	10.00	12.00	15.00	
<b>Portables</b>																														
HELIOS Plus	21.9	-	-	-		21.9	-	-	17.8	-	-	-	12.0	-	7.6	18.4	-	12.2	9.2	7.3	6.1	5.2	4.6	-	-	-	-	-	-	-
HELIOS Marathon	48.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.1	-	29.3	6.1   22.0	17.6	4.0   14.6	-	3.0   11.0	2.4	2.0	-	-	-	-	
Spirit 300	15.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.1	-	10.7	2.4   8.0	-	5.4	-	4.0	3.2	-	-	-	-	-	
Spirit 600	31.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30.3	-	21.4	4.8   16.1	-	10.7	-	8.0	6.4	-	-	-	-	-	
Spirit 1200	60.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	57.4	-	40.5	9.2   30.4	-	20.3	-	15.2	12.2	-	-	-	-	-	
Sprint	27.7	27.7	27.7	27.7	27.7	-	27.7	27.7	27.7	27.7	22.9	21.4	17.2	13.7	11.4	8.6	6.8	5.5	4.3	3.6	3.1	-	2.4	2.0	1.7	-	-	-	-	
Stroller	55.4	55.4	55.4	55.4	55.4	-	55.4	55.4	55.4	55.4	45.8	42.9	34.3	27.4	22.8	17.1	13.7	11.4	8.5	6.8	5.7	-	4.4	3.6	3.0	-	-	-	-	
Hi Flow Stroller	55.4	-	-	-	-	-	-	-	-	-	-	-	34.3	-	-	17.1		11.4	8.5	6.8	5.7	-	4.4	-	3.0	2.3	1.9	1.6	1.4	
Companion 1000	55.4	-	-	-	-	55.4	-	-	55.4	-	-	-	34.3	-	22.8	17.1		11.4	8.5	6.8	5.7	4.9	4.1	3.3	2.8	-	-	-	-	
Companion 1000T	55.4	-	-	-	-	-	-	-	-	-	-	-	21.5	-	-	17.1		11.4	8.5	-	5.7	-	4.1	3.3	2.8	2.1	1.7	-	1.2	
<b>Reservoirs</b>																														
Liberator 20	31.7	31.7	31.7	31.7	31.7	-	31.7	31.7	31.7	31.7	31.7	30.1	24.1	19.3	16.1	12.0	9.6	8.0	6.0	4.8	4.0	-	3.0	2.4	2.0	1.5	1.2	1.0	0.8	
Liberator 30	46.8	46.8	46.8	46.8	46.8	-	46.8	46.8	46.8	46.8	46.8	44.4	35.5	28.4	23.7	17.76	14.2	11.8	8.9	7.1	5.9	-	4.4	3.6	3.0	2.2	1.8	1.5	1.2	
Liberator 37	56.9	56.9	56.9	56.9	56.9	-	56.9	56.9	56.9	56.9	56.9	54.0	43.2	34.6	28.8	21.6	17.3	14.4	10.8	8.6	7.2	-	5.4	4.3	3.6	2.7	2.2	1.8	1.4	
Liberator 45	69.0	69.0	69.0	69.0	69.0	-	69.0	69.0	69.0	69.0	69.0	65.5	52.4	41.9	34.9	26.2	21.0	17.5	13.1	10.5	8.7	-	6.5	5.2	4.4	3.3	2.6	2.2	1.7	
Liberator 60	88.0	88.0	88.0	88.0	88.0	-	88.0	88.0	88.0	88.0	88.0	84.5	69.0	55.2	46.0	34.5	27.6	23.0	17.2	13.8	11.5	-	8.6	6.9	5.7	4.3	3.4	2.9	2.3	
Companion 21	26.5	-	-	-	-	26.5	-	-	26.5	-	-	-	22.6	-	17.6	12.9	-	8.8	6.5	5.1	4.3	3.6	3.2	2.5	2.1	-	-	-	-	
Companion 31	39.2	-	-	-	-	39.2	-	-	39.2	-	-	-	33.4	-	26.1	19.1	-	12.9	9.6	7.6	6.3	5.4	4.7	3.7	3.1	-	-	-	-	
Companion 41	51.8	-	-	-	-	51.8	-	-	51.8	-	-	-	44.2	-	34.5	25.2	-	17.1	12.7	10.0	8.3	7.1	6.2	5.0	4.1	-	-	-	-	
HELIOS 36	72.0	-	-	-	-	-	-	-	-	-	-	-	44.8	-	29.2	21.7	-	14.5	10.9	-	7.2	-	5.4	4.3	3.6	2.7	2.2	-	-	
HELIOS 46	92.0	-	-	-	-	-	-	-	-	-	-	-	57.3	-	37.3	27.8	-	18.5	13.9	-	9.3	-	6.9	5.6	4.6	3.5	2.8	-	-	
Universal 36	72.0	-	-	-	-	-	-	-	-	-	-	-	44.8	-	29.2	21.7	-	14.5	10.9	-	7.2	-	5.4	4.3	3.6	2.7	2.2	-	-	
Universal 46	92.0	-	-	-	-	-	-	-	-	-	-	-	57.3	-	37.3	27.8	-	18.5	13.9	-	9.3	-	6.9	5.6	4.6	3.5	2.8	-	-	

**Notes:**

- Gasous equivalents and use times are based upon LOX saturated at the economizer setting and upon flow rates at their nominal settings.
- Duration times for portables are shown in hours. Reservoir duration times are shown in days.
- Duration times for Demand Mode are based on 20 bpm and are shown in italic.

# Liquid Oxygen Use Time Chart: Specifications

Model	Capacity				Normal Evaporation Rate (Typical):		Height		Weight Empty		Weight Full	
	Liquid Liters	Pounds (LO2)	Kg	Gaseous Liters	Lbs/Day	Kg/Day	Inches	mm	Pounds	Kg	Pounds	Kg
<b>Portables</b>												
HELiOS Plus	0.38	0.9	0,41	308	1	0,45	10.5	267	2.7	1,22	3.6	1,63
HELiOS Marathon	0.84	2.0	0,91	685	1.31	0,39	15.0	381	3.6	1,63	5.6	2,54
Spirit 300	0.30	0.8	0,36	275	1.30	0,57	8.8	223	3.5	1,60	4.3	1,95
Spirit 600	0.60	1.5	0,68	516	1.30	0,57	11.5	292	4.1	1,86	5.6	2,54
Spirit 1200	1.30	3.0	1,36	1,026	1.30	0,57	14.0	355	5.0	2,27	8	3,63
Sprint	0.63	1.5	0,68	513	1.30	0,57	11.75	298	4.5	2,04	6	2,72
Stroller	1.25	3.0	1,36	1,026	1.30	0,57	13.5	343	5.0	2,27	8	3,63
Hi-Flow Stroller	1.20	3.0	1,36	1,025	1.30	0,57	13.5	343	5.5	2,49	8.5	3,86
Companion 1000	1.23	3.1	1,41	1,058	1.30	0,60	13.8	351	5.0	2,27	8.1	3,67
Companion 1000T	1.23	3.1	1,41	1,058	1.30	0,60	14.5	368	5.6	2,54	8.7	3,95
<b>Reservoirs</b>												
Liberator 20	21.0	50.7	23,0	17,337	1.60	0,73	24.5	622	39	17,96	89.7	40,69
Liberator 30	31.0	74.8	33,9	25,580	1.60	0,73	29.5	749	48.6	22,04	122.32	55,94
Liberator 37	37.3	90.0	40,8	31,121	1.60	0,73	32.75	832	50	22,68	140	63,48
Liberator 45	45.7	110.3	50,04	37,724	1.60	0,73	37.0	940	55	24,95	165.32	74,99
Liberator 60	60.2	145.3	65,9	49,679	1.60	0,73	39.0	991	75.4	34,19	220.68	100,1
Companion 21	21	49	22,23	16,750	1.90	0,86	27.5	698	45	20,41	94	42,64
Companion 31	31	73	33,11	24,950	1.90	0,86	33.0	838	51	23,13	124	56,25
Companion 41	41	98	44,45	33,500	1.90	0,86	38.5	978	60	27,21	158	71,67
HELiOS 36	36	85	38,60	29,069	1.20	0,54	33.5	851	53	24,00	138	62,60
HELiOS 46	46	110	49,90	37,619	1.20	0,54	37.5	952	60	27,20	170	77,10
Universal 36	36	85	38,56	29,069	1.20	0,54	33.5	851	53	24,04	138	62,60
Universal 46	46	110	49,90	37,619	1.20	0,54	37.5	952	60	27,21	170	77,11