

Sea Maiden Ericson 35-3 46447

Class: Ericson 35-3 Configuration: Sail Number: 46447 Year Built: 1985 Builder: ERICSON Owner(s): Sherman, Carolyn				
Certificate #: EZ11623 Valid Year: 2023 Type: Mid Season Rev HPA Issue Date: 2023-09-17 Exp. Date: 2023-12-31 Offsets_file: US18736.OFF Cert Group: ORR-Ez SOCAL Comment:				
Rig Type: Sloop Forestay: Masthead Keel Type: Fixed Prop Type: Folding Prop Install: Exposed Prop Blades: 2				
LOA: 35.39 ft LWL: 28.10 ft Rated Length: 28.37 ft Beam Max: 11.29 ft Draft: 6.11 ft Disp Empty: 12763 lbs Disp Sailing: 14315 lbs Crew: 1000 lbs Water Ballast: 0 lbs Wetted Area: 261.8 ft ² LPS: 120.5 ° RM20: 795.3 ft-lbs Stab Index: 123 °				
Spinnaker: Both Symmetrical & Asymmetrical flown with spin pole Code Zero: No Genoa/Jib Leech: No Roach - Leech is straight Large Roach Headsail: No Jib Furler: No Main Roller Furling: No				
Rig Dimensions IG: 46.00 ft ISP: 46.00 ft J: 15.80 ft P: 39.00 ft E: 12.00 ft SPL: 15.83 ft	Mainsail Meas. HB: 0.48 ft MGT: 2.64 ft MGU: 4.56 ft MGM: 7.80 ft MGL: 10.20 ft Area: 286.0 ft ²	Jib/Genoa Meas. LP: 24.49 ft LPG %: 155.0 % J Luff: 46.00 ft J Leech: 42.45 ft Area: 563.3 ft ²	Asymmetric Spin. Meas. ASLU: 49.00 ft ASLE: 43.90 ft AMG: 28.10 ft ASF: 28.10 ft Area: 1087.7 ft ²	Symmetric Spin. Meas. SL: 46.25 ft SMW: 28.30 ft SF: 28.30 ft Area: 1090.7 ft ²

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Table of Time Allowances (sec/mile)* (at True Wind Angles)

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	46.7	45.8	44.5	41.8	39.6	37.1	36.1	36.1
Beat VMG	1,524.26	1,115.10	926.55	832.04	782.59	736.20	718.13	716.13
52°	961.31	712.81	602.21	564.25	546.55	529.16	522.02	520.24
60°	871.61	660.77	574.35	543.72	528.98	513.52	506.65	501.41
75°	790.37	613.73	551.09	522.38	506.34	487.01	476.04	469.79
90°	766.38	593.71	531.37	503.42	487.62	466.90	454.04	446.22
110°	767.00	596.35	536.46	505.88	483.32	450.39	434.00	423.12
120°	812.88	624.84	553.28	520.46	495.98	457.51	426.83	413.51
135°	1,083.14	761.66	612.51	556.22	523.86	478.94	443.68	411.88
150°	1,326.56	932.24	739.19	618.35	560.26	502.41	463.76	430.99
165°	1,479.59	1,039.78	824.46	689.07	601.93	523.67	480.91	447.42
Run VMG	1,531.78	1,076.46	853.55	713.38	623.16	536.98	491.30	456.91
Opt Run Angle	129.9	136.2	147.0	151.9	164.8	173.3	173.5	173.1

* Sec/mile rating assume gybing downwind when target angles are deeper than best VMG angles.

Performance Metrics

SA/D Dnwind:	37.370
SA/D Average:	30.33
SA/D Upwind:	23.280
D/Length:	279.9
Ave Perf Screen:	10.800
DnWind Perf	13.4
Screen:	

Standard Ratings

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.383	0.602	0.795	0.917	1,249.2	794.7	601.5	521.6
W50/L50	0.375	0.598	0.812	0.954	1,563.6	980.6	721.8	614.3
W60/L40	0.383	0.606	0.812	0.939	1,563.6	988.1	737.4	637.3
MOSTLY WW	0.416	0.637	0.810	0.896	1,448.2	946.3	743.7	672.7
MOSTLY LW	0.381	0.593	0.794	0.961	1,239.2	797.0	595.3	491.8

Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.794	664.5
IR#	0.806	663.0

ORR-Ez PHRF

TOD (Spin)
126.7

ORR-Ez PHRF are based on the Farr 40 MH as Scratch Boat.

Standard PCS Ratings

	TOD (Spin)							
	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,250.2	900.5	734.4	646.1	595.9	544.7	520.0	505.9
W50/L50	1,563.5	1,117.7	903.5	784.1	712.8	643.4	610.7	592.3
W60/L40	1,563.6	1,122.3	911.6	796.4	728.8	663.5	633.7	618.5
MOSTLY WW	1,448.1	1,059.1	879.7	787.3	737.2	689.3	669.0	663.2
MOSTLY LW	1,239.1	899.7	740.7	648.1	588.2	525.1	488.2	465.5
MOSTLY REACH								

ORR-Ez PHRF Time Allowance 4 Winds

	TOD (Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	258.8	161.4	119.6	118.0
W50/L50	356.7	212.2	135.1	127.9
W60/L40	347.5	213.5	141.3	131.8
MOSTLY WW	281.1	195.6	144.0	131.3
MOSTLY LW	294.7	177.1	117.5	117.7

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Table of Time Allowances (sec/mile)* (at True Wind Angles)

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Opt Beat Angle	46.7	45.8	44.5	41.8	39.6	37.1	36.1	36.1
Beat VMG	1,524.26	1,115.10	926.55	832.04	782.59	736.20	718.13	716.13
52°	961.31	712.81	602.21	564.25	546.55	529.16	522.02	520.24
60°	871.61	660.77	574.35	543.72	528.98	513.52	506.81	504.82
75°	790.06	613.73	551.39	522.50	507.54	492.38	485.04	482.28
90°	780.71	608.20	548.62	519.77	499.94	478.67	469.96	465.90
110°	884.48	670.07	581.90	546.68	522.56	487.47	461.45	452.40
120°	1,014.68	749.64	630.43	573.26	542.57	500.96	470.71	449.08
135°	1,421.18	975.19	753.45	644.19	579.59	519.62	482.17	453.13
150°	1,695.31	1,133.11	852.03	705.62	614.21	532.66	489.87	457.58
165°	1,743.09	1,174.59	890.54	728.16	628.38	533.85	486.75	451.37
Run VMG	1,755.07	1,182.54	896.48	733.15	632.74	538.59	491.86	456.91
Opt Run Angle	172.0	172.1	172.1	172.2	172.1	173.3	173.5	173.1

* Sec/mile rating assume gybing downwind when target angles are deeper than best VMG angles.

Performance Metrics

SA/D:	23.28
D/Length:	279.9
Perf Screen:	8.3

Standard Ratings

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.356	0.569	0.767	0.893	1,342.3	840.6	623.8	536.0
W50/L50	0.355	0.581	0.808	0.954	1,649.9	1,008.7	725.8	614.3
W60/L40	0.367	0.592	0.808	0.939	1,632.2	1,010.6	740.5	637.3
MOSTLY WW	0.411	0.632	0.808	0.894	1,467.6	953.6	745.7	674.2
MOSTLY LW	0.334	0.548	0.765	0.929	1,414.1	862.4	617.4	508.3

Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.758	696.3
IR#	0.795	673.2

ORR-Ez PHRF

TOD (Non-Spin)	136.9
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ORR-Ez PHRF are based on the Farr 40 MH as Scratch Boat.

Standard PCS Ratings

	TOD (Non-Spin)							
	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,349.0	962.0	775.5	676.0	618.1	560.4	534.0	520.6
W50/L50	1,662.9	1,168.5	926.4	794.5	717.8	644.3	611.0	592.3
W60/L40	1,642.5	1,163.0	930.0	804.7	732.8	664.3	633.9	618.5
MOSTLY WW	1,470.0	1,071.2	885.7	790.9	739.3	690.7	670.7	665.2
MOSTLY LW	1,429.9	1,002.6	793.1	679.1	611.7	543.3	506.0	479.7
MOSTLY REACH								

ORR-Ez PHRF Allowance 4 Winds

	TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy
RANDOM LEG	351.9	207.3	141.9	132.4
W50/L50	443.0	240.3	139.1	127.9
W60/L40	416.1	236.0	144.4	131.8
MOSTLY WW	300.5	202.9	146.0	132.8
MOSTLY LW	469.6	242.5	139.6	134.2