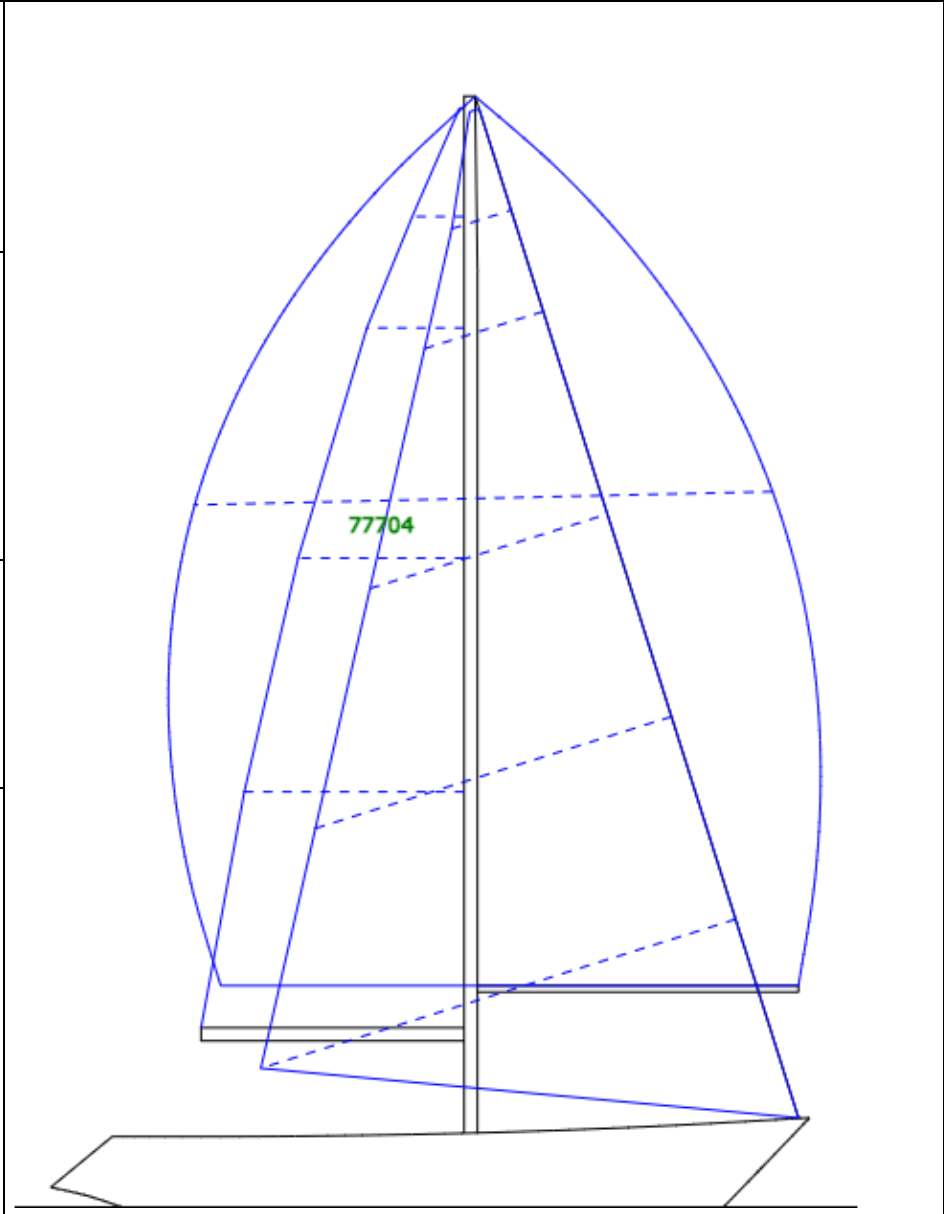


## Rowdy Contessa 39 MOD 77704

<b>Spinnaker</b>	<b>GPH: 0.855 / 619.3</b>	<b>IR#: 0.868 / 617.7</b>	<b>PHRF BM: 81.5</b>
<b>Non-Spin</b>	<b>GPH: 0.817 / 648.4</b>	<b>IR#: 0.852 / 629.5</b>	<b>PHRF BM: 93.3</b>

Class:	Contessa 39 MOD
Configuration:	
Sail Number:	77704
Year Built:	1999
Builder:	J.Rogers
Owner(s):	Marcus, Andy
Certificate #:	EZ11824
Valid Year:	2024
Type:	Renewal HPA
Issue Date:	2024-05-17
Exp.Date:	2024-12-31
Offsets_file:	H067_US77704.off
Cert Group:	ORR-Ez SOCAL
Comment:	
Rig Type:	Sloop
Forestay:	Masthead
Keel Type:	Fin
Prop Type:	Folding
Prop Install:	Strut Drive
Prop Blades:	2
LOA:	38.52 ft
LWL:	33.10 ft
Rated Length:	31.67 ft
Beam Max:	12.26 ft
Draft:	8.10 ft
Disp Empty:	14275 lbs
Disp Sailing:	16010 lbs
Crew:	1470 lbs
Water Ballast:	0 lbs
Wetted Area:	310.2 ft <sup>2</sup>
LPS:	112.0 °
RM20:	910.1 ft-lbs
Stab Index:	113 °



Spinnaker:	Symmetrical flown with spinnaker pole
Genoa/Jib Leech:	Has Roach or Hollow
Large Roach Headsail:	No
Jib Furler:	No
Main Roller Furling:	No

Rig Dimensions	Mainsail Meas.	Jib/Genoa Meas.	Symmetric Spin. Meas.
IG: 52.48 ft	HB: 0.23 ft	LP: 25.17 ft	SL: 52.19 ft
ISP: 52.48 ft	MGT: 2.62 ft	LPG %: 155.0 %	SMW: 29.23 ft
J: 16.24 ft	MGU: 4.92 ft	J Luff: 53.58 ft	SF: 29.23 ft
P: 46.56 ft	MGM: 8.40 ft	J Leech: 49.86 ft	Area: 1271.3 ft <sup>2</sup>
E: 13.31 ft	MGL: 11.12 ft	JH: 0.00 ft	
SPL: 16.24 ft	Area: 368.1 ft <sup>2</sup>	JMGT: 3.15 ft	
		JMGU: 6.29 ft	
		JMGM: 12.59 ft	
		JMGL: 18.88 ft	
		Area: 675.7 ft <sup>2</sup>	

## Rowdy Contessa 39 MOD 77704

### Spinnaker

#### Polar Time Allowances

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	45.4	44.5	43.2	40.1	38.0	35.9	35.3	35.5
Beat VMG	1,386.11	1,009.08	833.49	754.99	716.67	682.92	671.96	671.04
52°	879.70	652.56	551.59	523.70	510.31	497.73	492.64	491.75
60°	797.22	606.57	529.79	507.34	495.67	484.04	479.19	478.07
75°	730.85	568.16	511.00	488.33	477.17	463.09	454.34	449.64
90°	733.99	563.85	498.86	475.93	461.58	443.69	433.73	428.42
110°	729.00	562.02	499.67	469.40	449.21	427.55	413.43	405.33
120°	767.64	586.67	515.46	483.57	460.03	423.14	403.86	393.95
135°	1,041.99	728.43	576.78	521.36	489.47	444.55	408.00	374.62
150°	1,276.17	892.15	703.31	588.73	527.79	469.01	429.73	394.95
165°	1,423.39	995.06	784.44	656.65	572.84	491.60	448.08	413.59
Run VMG	1,473.60	1,030.16	812.11	679.81	593.05	505.08	458.42	423.18
Opt Run Angle	130.3	133.4	137.4	149.5	162.1	173.1	173.3	172.8

#### Benchmark Ratings

	TOT (Spin)	TOD (Spin)
GPH	0.855	619.3
IR#	0.868	617.7

#### Performance Metrics

SA/D Dnwind:	41.300
SA/D Average:	33.94
SA/D Upwind:	26.570
D/Length:	224.9
Ave Perf Screen:	15.100
DnWind Perf Screen:	18.4

#### PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,166.7	839.3	683.5	602.0	555.7	510.0	488.1	474.8
W50/L50	1,459.0	1,039.3	836.8	727.9	663.9	600.4	570.7	552.4
W60/L40	1,450.7	1,037.8	839.8	735.8	676.3	618.3	592.3	577.5
MOSTLY WW	1,486.3	1,067.2	867.1	763.4	706.0	654.1	635.7	630.2
MOSTLY LW	1,303.9	923.4	738.4	635.3	571.8	501.3	464.6	441.9
MOSTLY REACH	1,067.4	773.1	634.7	564.7	525.5	487.4	467.5	454.4

### Non-Spinnaker

#### Polar Time Allowances

True Wind Speed	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
Opt Beat Angle	45.4	44.5	43.2	40.1	38.0	35.9	35.3	35.5
Beat VMG	1,386.11	1,009.08	833.49	754.99	716.67	682.92	671.96	671.04
52°	879.70	652.56	551.59	523.70	510.31	497.73	492.64	491.75
60°	797.22	606.57	529.79	507.34	495.67	484.04	479.19	478.07
75°	730.85	568.16	511.00	488.33	477.17	464.80	459.23	456.96
90°	723.94	563.85	508.46	480.62	465.01	450.86	443.90	440.08
110°	813.89	618.12	538.56	505.76	482.53	448.60	431.21	424.96
120°	944.88	695.73	582.68	531.76	502.81	462.45	433.07	420.90
135°	1,334.72	918.11	711.21	604.91	542.23	483.36	445.75	417.10
150°	1,622.79	1,085.12	816.31	672.60	581.65	498.44	455.18	421.86
165°	1,689.35	1,136.47	860.15	700.20	601.01	502.33	454.42	418.25
Run VMG	1,703.09	1,145.44	866.74	705.40	605.29	506.59	458.94	423.18
Opt Run Angle	172.1	172.1	172.2	172.3	172.1	173.1	173.3	172.8

#### Benchmark Ratings

	TOT (Non-Spin)	TOD (Non-Spin)
GPH	0.817	648.4
IR#	0.852	629.5

#### Performance Metrics

SA/D:	26.57
D/Length:	224.9
Perf Screen:	11.8

#### PCS Ratings

	4 kts	6 kts	8 kts	10 kts	12 kts	16 kts	20 kts	24 kts
RANDOM LEG	1,255.9	895.3	721.6	629.3	575.9	523.2	499.5	486.9
W50/L50	1,563.9	1,095.0	864.7	741.4	670.3	601.4	571.0	552.4
W60/L40	1,534.1	1,082.4	862.1	746.6	681.4	619.1	592.5	577.4
MOSTLY WW	1,502.8	1,077.0	873.3	767.2	708.3	655.3	636.7	631.3
MOSTLY LW	1,451.4	1,011.1	794.0	672.9	598.7	518.2	477.5	453.8
MOSTLY REACH	1,157.3	830.8	675.0	594.0	547.6	502.2	481.1	469.7

Rowdy Contessa 39 MOD 77704

**Spinnaker**

**Standard 5 Winds**

	TOT (Spin)					TOD (Spin)				
	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	0.446	0.580	0.735	0.877	1.060	1,166.7	896.5	708.3	593.5	491.0
W50/L50	0.435	0.571	0.731	0.887	1.105	1,459.0	1,111.7	868.0	715.2	574.5
W60/L40	0.447	0.584	0.744	0.894	1.087	1,450.7	1,109.4	871.1	724.8	596.0
MOSTLY WW	0.462	0.603	0.764	0.911	1.074	1,486.3	1,140.2	899.2	754.1	640.0
MOSTLY LW	0.406	0.535	0.691	0.852	1.127	1,303.9	988.6	765.7	620.5	469.3
MOSTLY REACH	0.455	0.588	0.738	0.870	1.033	1,067.4	825.1	657.5	557.8	469.8

**Standard Single Wind**

	TOT (Spin) Single	TOD (Spin) Single
RANDOM LEG	0.849	613.1
W50/L50	0.858	739.8
W60/L40	0.864	750.1
MOSTLY WW	0.878	782.2
MOSTLY LW	0.827	639.1
MOSTLY REACH	0.844	575.5

**Legacy 4 Winds**

	TOT (Spin)				TOD (Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.412	0.649	0.856	0.980	1,166.7	741.0	561.6	490.3
W50/L50	0.403	0.646	0.875	1.025	1,459.0	910.8	671.9	573.6
W60/L40	0.414	0.658	0.878	1.009	1,450.7	912.8	683.9	595.1
MOSTLY WW	0.423	0.669	0.882	0.985	1,486.3	941.2	713.8	638.9
MOSTLY LW	0.373	0.604	0.840	1.038	1,303.9	805.1	578.9	468.1
MOSTLY REACH	0.422	0.656	0.849	0.960	1,067.4	686.4	530.5	469.2

**Non-Spinnaker**

**Standard 5 Winds**

	TOT (Non-Spin)					TOD (Non-Spin)				
	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	0.414	0.543	0.695	0.841	1.034	1,255.8	957.6	748.7	619.1	503.2
W50/L50	0.406	0.540	0.705	0.872	1.104	1,563.9	1,174.5	900.4	728.1	574.9
W60/L40	0.422	0.559	0.722	0.881	1.086	1,534.1	1,159.5	897.1	735.1	596.3
MOSTLY WW	0.457	0.597	0.759	0.907	1.072	1,502.8	1,151.0	905.8	757.6	641.1
MOSTLY LW	0.364	0.487	0.640	0.806	1.094	1,451.4	1,085.5	826.0	656.0	483.2
MOSTLY REACH	0.420	0.547	0.694	0.829	1.002	1,157.3	887.7	699.9	585.3	484.3

**Standard Single Wind**

	TOT (Non-Spin) Single	TOD (Non-Spin) Single
RANDOM LEG	0.812	640.8
W50/L50	0.838	757.3
W60/L40	0.848	764.0
MOSTLY WW	0.874	786.3
MOSTLY LW	0.779	678.7
MOSTLY REACH	0.802	605.1

**Legacy 4 Winds**

	TOT (Non-Spin)				TOD (Non-Spin)			
	V.Light	Light	Medium	Heavy	V.Light	Light	Medium	Heavy
RANDOM LEG	0.383	0.612	0.825	0.957	1,255.8	785.4	582.7	502.3
W50/L50	0.376	0.620	0.866	1.025	1,563.9	949.0	679.4	573.9
W60/L40	0.391	0.637	0.871	1.009	1,534.1	943.4	689.9	595.4
MOSTLY WW	0.419	0.663	0.878	0.983	1,502.8	948.6	716.4	640.0
MOSTLY LW	0.335	0.557	0.801	1.009	1,451.4	872.3	607.2	481.8
MOSTLY REACH	0.389	0.615	0.814	0.932	1,157.3	732.6	553.5	483.5

Rowdy Contessa 39 MOD 77704

Spinnaker

**PHRF Benchmark**

81.5

Aligned Ratings are based on the Farr  
40 MH as Scratch Boat.

**PHRF Single Wind**

RANDOM LEG	92.7
W50/L50	105.1
W60/L40	102.3
MOSTLY WW	95.1
MOSTLY LW	110.3
MOSTLY REACH	90.0

**PHRF 5 Winds**

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	177.9	134.3	103.6	85.9	88.0
W50/L50	251.5	183.1	131.6	95.6	86.6
W60/L40	231.2	170.9	125.6	93.9	85.9
MOSTLY WW	179.7	138.2	108.6	90.1	85.7
MOSTLY LW	242.1	177.6	131.2	101.6	98.3
MOSTLY REACH	160.6	123.1	97.0	83.7	88.2

Non-Spinnaker

**PHRF Benchmark**

93.3

Aligned Ratings are based on the Farr  
40 MH as Scratch Boat.

**PHRF Single Wind**

RANDOM LEG	120.4
W50/L50	122.6
W60/L40	116.2
MOSTLY WW	99.2
MOSTLY LW	149.9
MOSTLY REACH	119.6

**PHRF 5 Winds**

	V.Light <5	Light 5-7	Lt/Med 7-9	Medium 9-15	Heavy >15
RANDOM LEG	267.0	195.4	144.0	111.5	100.2
W50/L50	356.4	245.9	164.0	108.5	87.0
W60/L40	314.6	221.0	151.6	104.2	86.2
MOSTLY WW	196.2	149.0	115.2	93.6	86.8
MOSTLY LW	389.6	274.5	191.5	137.1	112.2
MOSTLY REACH	250.5	185.7	139.4	111.2	102.7