

## Resistance calculations.

### *Delft Series ('98).*

Resistance according to Delft Series ('98)							
Speed (kn.)	Speed (ft/s)	Froude number	Frictional resistance Lbs	Residual resistance Lbs	Total resistance Lbs	Effective power (kW)	
0.00	0.000	0.000	0.00	0.00	0.00	0.00	0.0
1.00	0.514	0.044	6.31	0.00	6.31	0.0	0.0
2.00	1.029	0.088	22.43	0.00	22.43	0.1	0.1
3.00	1.543	0.132	47.24	7.44	54.68	0.4	0.4
4.00	2.058	0.177	80.24	62.80	143.05	1.3	1.3
5.00	2.572	0.221	121.10	124.96	246.06	2.8	2.8
6.00	3.087	0.265	169.58	237.59	407.17	5.6	5.6
7.00	3.601	0.309	225.50	398.40	623.90	10.0	10.0
8.00	4.116	0.353	288.71	545.43	834.13	15.3	15.3
9.00	4.630	0.397	359.07	863.14	1222.21	25.2	25.2
10.00	5.144	0.441	436.49	1667.65	2104.14	48.2	48.2
11.00	5.659	0.485	520.86	3476.18	3997.04	100.6	100.6
12.00	6.173	0.530	612.10	6809.26	7421.35	203.9	203.9
13.00	6.688	0.574	710.13	9701.89	10412.02	309.9	309.9

### *John Winters (KAPER).*

Resistance according to John Winters (KAPER)						
Speed (kn.)	Speed (ft/s)	Froude number	Frictional resistance Lbs	Residual resistance Lbs	Total resistance Lbs	
0.00	0.000	0.000	0.00	0.00	0.00	0.00
1.00	0.514	0.037	6.31	0.07	6.38	6.38
2.00	1.029	0.074	22.43	0.91	23.35	23.35
3.00	1.543	0.111	47.24	3.67	50.92	50.92
4.00	2.058	0.148	80.24	8.43	88.68	88.68
5.00	2.572	0.185	121.10	13.70	134.80	134.80
6.00	3.087	0.222	169.58	17.86	187.44	187.44
7.00	3.601	0.258	225.50	28.35	253.85	253.85
8.00	4.116	0.295	288.71	63.73	352.44	352.44
9.00	4.630	0.332	359.07	149.91	508.98	508.98
10.00	5.144	0.369	436.49	366.27	802.76	802.76
11.00	5.659	0.406	520.86	741.17	1262.03	1262.03

