



PERFORMANCE ACROSS ALL CONDITIONS, SIMPLICITY AND FAST!

The architecture of the Airborn Foiler was developed to offer simple foiling equilibrium and very high performance both upwind and reaching from 8 kts of true wind speed, guaranteed.

It is therefore ideal to organize and take part in races in the majority of wind conditions, up to 20 kts true wind speed, for all crew weights, and with the capability to sustain foiling in winds as low as 5 kts.

The architecture makes a difference with the ease of performance upwind in light airs, made possible thanks to the high aspect ratio carbon foils and the sail plan that's defined accurately across the board for each class so the boat remains easy to control yet fast.

The following tables indicate the precise performance offered for the four categories of crew weight and a peak speed of 33 kts for the heaviest sailors.

To allow even more of us to share this experience, a rating system has been developed that makes it possible to combine the energy of all four classes to create larger fleets, or for different generations of sailors to race against one another on an – almost – equal footing.

Let the battle begin!

The Airborn Foiler is a one-design class, ensuring truly equal and competitive racing.

**// GUARANTEED ON-THE-FOILS RACING FROM
8 TO 20 KTS OF WIND**

// SUSTAINED FOILING IN 5 KTS OF WIND

// SPEEDS IN EXCESS OF 30 KTS

**// FOUR SAIL AREAS FOR CREW BETWEEN
40KG AND 95KG**

**// A RATING SYSTEM TO CREATE EXTRA
LARGE FLEETS AND CONNECT GENERATIONS**

LET THE BATTLE BEGIN!

CHOOSE YOUR SAIL AREA

The choice of sail area should correspond to your weight. Using a sail area that is too large for your weight is possible, but not recommended, as it can compromise control and reduce the overall enjoyment of the boat.

RECOMMENDED CREW WEIGHT AND SAIL AREA (METRIC SYSTEM UNITS)				
CREW WEIGHT	40 – 52.5kg	52.5 - 65kg	65 - 80kg	80 - 95kg
RECOMMENDED SAIL AREA	5.90m ²	6.80m ²	7.80m ²	8.50m ²
CORRESPONDING CLASS NAME	A-590	A-680	A-780	A-850
TYPICAL AGE	14-16	16-18	16+	16+

RECOMMENDED CREW WEIGHT AND SAIL AREA (IMPERIAL UNITS)				
CREW WEIGHT	88 - 116lbs	116 - 143lbs	143 - 176lbs	176 - 209lbs
RECOMMENDED SAIL AREA	63.6ft ²	73.2ft ²	83.1ft ²	91.5ft ²
CORRESPONDING CLASS NAME	A-590	A-680	A-780	A-850
TYPICAL AGE	14-16	16-18	16+	16+

'If you are after the ultimate feeling of speed, close racing, or to share the experience with friends or family, the Airborn Foiler is for you.'



CLASS A-590

FOR CREW WEIGHT BETWEEN 40KG AND 52.5KG - PERFORMANCE DATA

Sail area 5.90m²

Maximum speed at 20 kts: 25.85kts

Earliest take off in 6kts TWS at 75deg of TWA.

MAXIMUM BOAT SPEED TABLE VS TRUE WIND ANGLE AND TRUE WIND SPEED

	TWA	TWS									
		6	8	10	12	14	16	18	20	23	26
UPWIND SPEEDS	40	-	-	-	6.98	7.52	7.73	7.75	7.48	6.54	-
	42.5	-	-	7.61	8.31	8.69	8.90	8.93	8.78	8.34	-
	45	-	7.52	8.61	9.21	9.60	9.85	9.87	9.79	9.48	-
	47.5	-	8.46	9.38	9.98	10.41	10.64	10.71	10.68	10.46	-
	50	-	9.16	10.05	10.68	11.14	11.37	11.48	11.50	11.36	-
DOWNWIND SPEEDS	75	12.08	13.61	14.76	15.71	16.50	17.17	17.72	18.18	-	-
	100	14.11	15.93	17.50	18.88	20.12	21.24	22.25	23.16	-	-
	125	12.05	15.62	18.29	20.01	21.60	23.10	24.51	25.85	-	29.48
	150	-	8.12	9.51	12.78	15.15	17.31	19.37	21.36	24.27	27.11
	175	-	-	-	-	-	-	-	-	-	-

RACING ZONE

TWS = True Wind Speed in Kts, provided from 6 to 24 degrees

TWA = True Wind Angle in Degrees, provided from 40 to 175 degrees

Maximum boat speed for each condition is provided in kts, for a middle crew weight, on flat waters with perfect trim.

CLASS A-680

CREW WEIGHT BETWEEN 52.5KG AND 65KG - PERFORMANCE DATA FOR

Sail area 6.80m²

Maximum speed at 20 kts: 27.50kts

Earliest take off in 6kts TWS at 75deg of TWA.

MAXIMUM BOAT SPEED TABLE VS TRUE WIND ANGLE AND TRUE WIND SPEED

	TWA	TWS									
		6	8	10	12	14	16	18	20	23	26
UPWIND SPEEDS	40	-	-	-	8.13	8.61	8.85	8.94	8.91	8.51	-
	42.5	-	-	8.56	9.26	9.69	9.95	10.09	10.10	9.81	-
	45	-	8.44	9.50	10.16	10.60	10.90	11.09	11.08	10.89	-
	47.5	-	9.31	10.27	10.94	11.42	11.76	11.94	11.98	11.86	-
	50	-	10.01	10.96	11.66	12.18	12.56	12.74	12.81	-	-
DOWNWIND SPEEDS	75	13.02	14.64	15.94	16.97	17.83	18.56	19.18	19.69	-	-
	100	15.14	17.12	18.78	20.25	21.57	22.75	23.83	24.80	26.11	-
	125	13.53	17.18	19.56	21.37	23.05	24.62	26.10	27.50	29.47	31.30
	150	-	9.31	10.61	14.40	16.86	19.13	21.31	23.42	26.51	29.51
	175	-	-	-	-	-	-	-	-	-	-

RACING ZONE

TWS = True Wind Speed in Kts, provided from 6 to 24 degrees

TWA = True Wind Angle in Degrees, provided from 40 to 175 degrees

Maximum boat speed for each condition is provided in kts, for a middle crew weight, on flat waters with perfect trim.

CLASS A-780

FOR CREW WEIGHT BETWEEN 65KG AND 80KG - PERFORMANCE DATA

Sail area 7.80m²

Maximum speed at 20 kts: 29.05kts

Earliest take off in 7kts TWS at 85deg of TWA.

MAXIMUM BOAT SPEED TABLE VS TRUE WIND ANGLE AND TRUE WIND SPEED

	TWA	TWS									
		6	8	10	12	14	16	18	20	23	26
UPWIND SPEEDS	40	-	No Foil	7.83	8.91	9.43	9.74	9.90	9.93	9.81	-
	42.5	-	No Foil	9.28	10.03	10.53	10.85	11.05	11.14	11.05	-
	45	-	9.11	10.23	10.95	11.46	11.82	12.07	12.21	12.13	-
	47.5	-	9.99	11.03	11.76	12.31	12.71	13.01	13.14	13.12	-
	50	-	10.72	11.75	12.51	13.10	13.55	13.86	14.00	-	-
DOWNWIND SPEEDS	75	13.85	15.57	17.00	18.13	19.07	19.87	20.55	21.12	-	-
	100	16.07	18.21	19.97	21.52	22.92	24.17	25.32	26.36	27.75	-
	125	14.89	18.61	20.74	22.63	24.39	26.04	27.58	29.05	31.11	33.02
	150	-	11.28	12.58	15.89	18.49	20.90	23.19	25.41	28.63	31.73
	175	-	-	-	-	-	-	-	-	-	-

RACING ZONE

TWS = True Wind Speed in Kts, provided from 6 to 24 degrees

TWA = True Wind Angle in Degrees, provided from 40 to 175 degrees

Maximum boat speed for each condition is provided in kts, for a middle crew weight, on flat waters with perfect trim.

CLASS A-850

FOR CREW WEIGHT BETWEEN 80KG AND 95KG - PERFORMANCE DATA

Sail area 8.50m²

Maximum speed at 20 kts: 30.41kts

Earliest take off in 7kts TWS at 85deg of TWA.

MAXIMUM BOAT SPEED TABLE VS TRUE WIND ANGLE AND TRUE WIND SPEED

	TWA	TWS									
		6	8	10	12	14	16	18	20	23	26
UPWIND SPEEDS	40	-	-	8.24	9.47	10.09	10.46	10.69	10.79	10.77	-
	42.5	-	-	9.79	10.65	11.22	11.61	11.87	12.03	12.09	-
	45	-	9.56	10.80	11.61	12.19	12.62	12.92	13.13	13.22	-
	47.5	-	10.50	11.64	12.46	13.07	13.54	13.89	14.15	14.24	-
	50	-	11.27	12.39	13.24	13.89	14.41	14.81	15.06	-	-
DOWNWIND SPEEDS	75	14.54	16.35	17.87	19.14	20.16	21.03	21.78	22.42	-	-
	100	16.85	19.09	20.99	22.63	24.10	25.43	26.64	27.75	29.24	-
	125	15.75	19.52	21.73	23.71	25.55	27.26	28.88	30.41	32.55	34.55
	150	-	12.10	13.48	16.99	19.71	22.22	24.60	26.90	30.21	33.35
	175	-	-	-	-	-	-	-	-	-	-

RACING ZONE

TWS = True Wind Speed in Kts, provided from 6 to 24 degrees

TWA = True Wind Angle in Degrees, provided from 40 to 175 degrees

Maximum boat speed for each condition is provided in kts, for a middle crew weight, on flat waters with perfect trim.

AIRBORN BATTLE RATING SYSTEM

MORE FOILERS, MORE FUN

The following ratings are provided to allow classes to race simultaneously. Ratings vary depending on wind conditions and are provided below for more precision. The A-780 is used as reference performance.

	TRUE WIND SPEED (KTS)	A-590	A-680	A-780	A-850
LIGHT MODE RATING	8 – 12	1.3	1.2	1	0.95
RACE MODE 1	10 – 14	1.25	1.16	1	0.95
RACE MODE 2	12 – 16	1.22	1.13	1	0.93
POWER MODE 1	14 – 18	1.22	1.12	1	0.93
POWER MODE 2	16 – 20	1.22	1.12	1	0.93

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The performance estimates and rating factors provided are based on ideal conditions, including flat water, optimal boat trim, and experienced crew handling. Actual boat speeds and performance may vary due to factors such as wind variability, sea state, crew weight and skill, sail condition, and local weather conditions. These estimates are intended for comparative and planning purposes only and do not guarantee specific results in real-world racing or sailing conditions.