

Emirates Team New Zealand's hydrogen powered foiling catamaran Chase Zero



Photo: americascup.com

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https://emirates-team-new-zealand.americascup.com/en/news/549_EMIRATES-TEAM-NEW-ZEALAND-TAKE-FLIGHT-IN-HYDROGEN-POW

The defender of Americas Cup, which will take place in Barcelona during autumn 2024 present there chase boat they will use under this event.

Chase Zero is powered by hydrogen fuel cells, together with batteries. The batteries is needed for acceleration and to reach high speeds up to 50 knots.

Chase Zero is capable of running in around 30 knots with power only from the fuel cells.

Range is about 180km in 35 knots.

The boat is of course flying on foiles.

Specifications

LOA: 10.0m

Beam: 4. 5m

Draft: 2.2m

Foil configuration: Primary ?-foil, single T-rudder

Displacement: 4800kg

Fuel cells: 2 x Toyota 80kW

Motors: 2 x 220kW

Batteries: 2 x 42kWh

Tanks: 4 x 8kg Hydrogen @ 350bar

Cruise Speed: 30kts

Range: 180km (typical chase boat working cycle)

Top Speed: 50kts