

Avon eJET 450 electric tender

Together with German electric propulsion specialist Torqeedo, Zodiac Nautic has developed the Avon eJET 450, a fully electric tender for the luxury segment.

Equipped with Torqeedo's 55kW Deep Blue electric motor and a modified version of the 30.5kWh lithium-ion battery used in BMW's i3 electric city car, the eJET gets around 90 minutes of range at 23kts (26mph) or seven hours at 5kts (5.7mph), and achieves a maximum speed of 31kts (35.6mph).

The Avon eJET 450 also carries connected capabilities, meaning it can be maintained and upgraded directly through the internet.

According to Dominique Heber-Suffrin, president of Zodiac Nautic, the new tender solves a number of problems faced by yacht owners, including carrying fuel for tenders, changing oil, reliability issues and maintenance.

"Throughout its 120 years of history, Zodiac Nautic and its brands have collectively invented the inflatable boat, the RIB and the inflatable jet tender. We're always looking for what will come next in the boating industry and seeking the best partners to make that happen. Torqeedo was the clear choice from the get-go on the eJET project."

Thanks to the instant torque of its 55kW high-performance electric engine, the Avon eJET 450 delivers an impressive boost-start that gets it instantly to plane



Jaguar Vector V20E electric speed boat

In June 2018, Jaguar Vector Racing set a new world electric speed record in a battery-powered boat. The Jaguar Vector V20E recorded an average speed of 77kts (88.61mph) across two legs of the 1km (0.6-mile) course on Coniston Water, UK, to beat the previous record of 66.7kts (76.8mph).

The all-electric speedboat, which is powered by 320kg (705 lb) of batteries and a pair of Yasa electric motors, generating 217kW, was designed and constructed by Jaguar Vector Racing in partnership with Williams





Only a dozen Project Neptune submarines will reportedly be available to purchase each year, and will each cost around US\$4m



Project Neptune electric deep-diving submersible

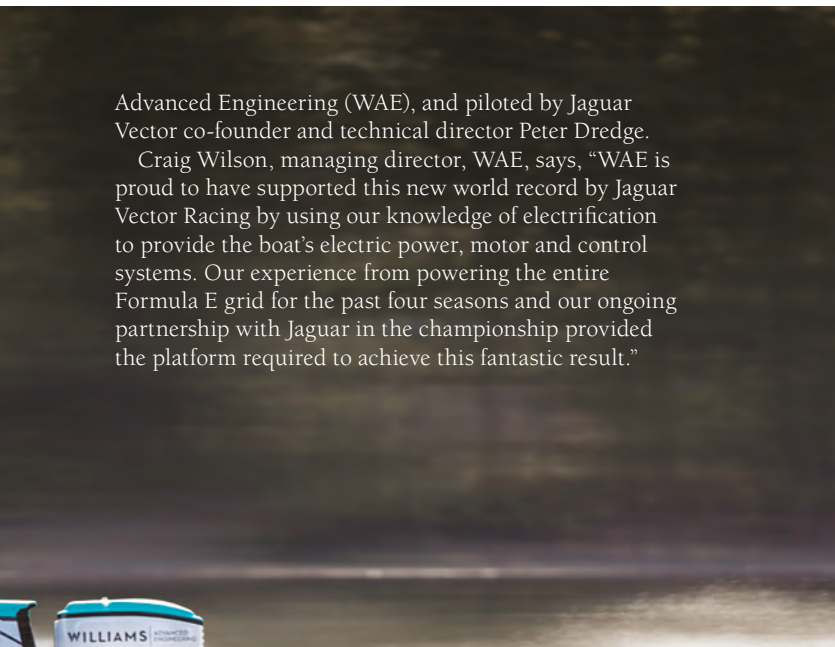
In July 2018, Triton Submarines and British automotive manufacturer Aston Martin announced that they had successfully completed the design phase for Project Neptune, a fully electric deep-diving submersible, and that work had begun on the first production model ahead of its public unveiling later this year.

Powered by a 30kWh LiFePO4 battery system supplied by Valance Technology, the limited-edition sub, which is based on Triton's Low Profile three-person platform, can carry two passengers and a pilot, and is able to operate for as long as eight hours before requiring recharging. Able to dive to depths of 500m (1,640ft), the submersible will have an anticipated sprint speed in excess of 5kts (5.7mph) and approximately four times the acceleration of Triton's flagship 3300/3 model.

Following the initial announcement of the creative collaboration in September 2017, Aston Martin and Triton have refined the design of the submersible's hydrodynamics, body styling and interior packaging. "The work we've done together on the exterior of the submersible pleases me most," says John Ramsay, CTO at Triton Submarines. "I am particularly proud of our joint development of the acrylic canopy and iridium coating. The prototypes look incredible, being simultaneously functional and beautiful."

Advanced Engineering (WAE), and piloted by Jaguar Vector co-founder and technical director Peter Dredge.

Craig Wilson, managing director, WAE, says, "WAE is proud to have supported this new world record by Jaguar Vector Racing by using our knowledge of electrification to provide the boat's electric power, motor and control systems. Our experience from powering the entire Formula E grid for the past four seasons and our ongoing partnership with Jaguar in the championship provided the platform required to achieve this fantastic result."



Developed in partnership with technical partner Williams Advanced Engineering, the V20E electric speed boat uses technology derived from Formula E racing