



The collaboration between BAR Tech and Spirit to design a fully electric foiling launch will exemplify BAR Tech's innovation efficiency and sustainability while maintaining the unmistakable classical lines synonymous with Spirit Yachts. Pairing both classical lightweight building techniques using cedar planking along with modern carbon epoxy lamination, the result is an extremely lightweight, efficient vessel. The launch is not only pleasing on the eye with an ultimate luxurious feel, it also employs cutting edge foiling technology with a truly green drivetrain. This really is guilt free pleasure.

The foiler has 6 seats in open cockpit configuration quickly converting to a 2-seater spider configuration for the ultimate thrill. On the starboard side, an exquisitely designed and engineered boarding platform is incorporated. The grain of the mahogany is maintained locally for seamless integration into the topsides. The central portion of the aft cowling converts into a table for those moments of relaxation in which the conveniently stowed cool box will inevitably be put to good use.

The foiler is fully electrically powered by an array of battery modules. The modules are water-cooled via a heat exchange system integrated within the aft "T" foil vertical leg. The entire battery pack is assembled off site to give optimal conditions for the electrical architecture assembly. The arrangement is then dropped into the vessel via a removable, mahogany veneered carbon composite access hatch located forward of the dash.

The retractable foils themselves have been engineered to exploit the superior mechanical properties of titanium which enables a minimum section thickness to chord ratio which increases the overall efficiency of the system. This arrangement coupled with a modified electric motor developed for motorsport integrated in the aft "T" foil, gives the vessel a market leading range of around 100 Nm at cruising speed. The foiler sports an automated control system developed utilising experience gained on the Americas' Cup racing circuit to harnesses both roll and pitch by controlling the twin flaps on the forward "H" foil giving a remarkably comfortable, silent ride.



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General

Vessel Type	35ft Fully Electric Foiling Launch
Construction	Carbon Skinned Cedar Planked, Mahogany veneer
Key Features	Fully Electric, Fully Foiling classically styled launch.
Classification	CE
Driver	1
Passengers	1 (spider arrangement), 5 max (open cockpit)

Dimensions

Length Overall	10.2m (10m LWL)
Beam Overall	2.25m
Draft	1.78m (Foil deployed and stationary) 0.5m (approx. shallow mode)

Designed to be transported in a 40ft container

Performance

Max Speed	30 kts
Cruise Speed	22 kts
Battery Range	100 Nm @ 20 Knots +
Battery Capacity	150 kWh
Motor Power	60 kW

Operational Limits

Design Category	C ("inshore")
Significant wave Height	Up to 2m
Typical Steady Wind Speed	Up to Force 6

Propulsion and steering

Prop	(TBC)
Steering system	Fly-by-wire
Cooling System	Water / glycol—closed
Charging Capability	(TBC)

Additional Details

- Aft foil—Titanium with composite trailing edge.
- Forward foils —Titanium and composite trailing edge.
- 24 V house battery system.
- Ride height stability control.
- Classically designed analogue stainless gauges on dash.
- Aft cowlings flip to become seating area (in open cockpit)
- Removable carbon composite coachroof hatch for drop in battery access.
- Central portion of aft cowling becomes central table.
- Water-ski attachment point.
- Cool box.

