



ELECTRIC FERRY

VESSEL DETAILS

Owner	Auckland Transport - NEW ZEALAND
Year Built	2024
Length (LOA)	24.0m - 78.70ft
Beam	8.5m - 27.88ft
Construction	Carbon Fibre
Ship Designer	EV Maritime, NZ
Shipyard	McMullen & Wing, NZ
Motors	e-Motor 243kW
Class	DNV

HAMILTONJET SUPPLY

Propulsion	4 x LTX36 waterjets
Control System	AVX propulsion control system with Electric Interface, JETanchor positioning system
Electric System	Integration support with Danfoss electric system

ZERO EMISSION SYSTEM

Auckland's two state-of-the-art electric ferries are taking shape in the east of the city, with the first expected to be in the water in 2024. The 200-seat, carbon fibre ferries design have been tweaked to seat 191 and provide covered storage for up to 24 bikes for this operation. The vessels have a range of 37km and travels at 25 knots.

The vessel has quad Danfoss e-motors driving four LTX36 waterjets with the HamiltonJet AVX-electric interface controls and JETanchor positioning system. The AVX-electric interface system will interface with an external "Electrical Control System" supplied, programmed, and commissioned by Danfoss Editron ECS. The Danfoss ECS acts as the Energy Management System and is responsible for controlling and monitoring the electric machines and other power electronics based on RPM demand from HamiltonJet AVX, and for interfacing to the energy storage system to control the battery and shore charging connection.