



VESSEL

The *Elettra III* is an 85-foot steel hulled motor vessel, and is the third vessel commissioned by Marconi Marine Company to enter service under the name Elettra. The company's founder, famous inventor Guglielmo Marconi, was awarded the Nobel Prize in 1909 for his pioneering work in the development of wireless technology. His experiments later led to the development of radar and microwave transmission. The first *Elettra* was purchased by the inventor in 1920. *Elettra II* was commissioned in 1950, and was succeeded by our vessel, the *Elettra III*, in 1962. Outperforming its predecessors, *Elettra III* was built as an exceptional demonstration vessel to showcase advanced maritime technologies.



Photo by Eric Johanson

Plans for Refit

Our vision is to refit *Elettra III* as a Subchapter T Small Passenger Vessel and outfit her with the required equipment for obtaining a US Coast Guard Certificate of Inspection. To complete this process we have hired a prominent naval architecture firm and the work will be completed in partnership with professional shipyards.

Supplementing the refit required for compliance and safety, we will be outfitting the vessel with the highest quality scientific and educational instrumentation, creating fully-networked classroom and lab spaces, and deployment arrangements. These modifications will enable us to safely and effectively deliver our unique, hands-on programs for classes a third larger than our current operations allow on a single vessel.

Finally, we intend to outfit the vessel with the capacity to stream student data through the internet, where it can be accessed and analyzed in real time, from anywhere in the world.

For technical details, see reverse.

Questions? Contact Executive Director Seth Muir: (206) 780-7848 ext. 1 or Seth@Salish.org.



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Elletta III: Technical Specifications and Certifications

Year Built: 1962, commissioned by the Marconi Marine Company

Builder and Shipyard of Origin: Fairmile Construction Company, Ltd.; Berwick-on-Tweed, U.K.

Purchased from private ownership by Salish Sea Expeditions, Summer 2015

Salish Sea Expeditions was awarded a coastwise exception to the Jones Act by the U.S. Congress, enacted February 2016 through the Coast Guard Authorization Act of 2015 (H.R. 4188; Public Law 114-120).

US Coast Guard T-Boat Certification and updated COI is pending

Official Number: 694607

Hull Number: BRIT304285

Length: 85 feet

Breadth: 20 feet

Molded Depth: 11 feet

Draught: 9.8 feet

Gross Tonnage: 83 tons

Net Tonnage: 74 tons

Displacement: 134.3 tons

Propulsion

Main Engines: Port and Starboard Gardner model 6L3B, 6-cyl diesel engines, 173-hp each at 1150 rpm

Service hours (from survey): 2,606 hours (port) and 2,649 hours (starboard)

Propellers: Port and starboard 44" diameter by 34" pitch, bronze alloy, 3-bladed, propellers

H.A. Thompson hydraulic bow thruster

Fuel

Fuel capacity is 3,000 gallons giving the vessel a cruising range of 3,000 miles at 10 knots.

Steering

Steering power is manual from the wheelhouse helm pump and hydro-mechanical through the auto-pilot system.

A single formed plate, semi-balanced 42" x 8' rudder is driven by a Tenfjord hydraulic steering engine.

Fresh Water

Tank Capacity: 4,000 gallons

Fresh Water Generator: Village Marine Tech, model PW-800 (s/n 9488) reverse osmosis potable water generator

Bilge

Pumps: one (1) Teel, model 38380 centrifugal pump driven by a 2-hp electric motor.

An integral waste oil tank holds approximately 50-gallons.

Sewage

Sewage storage tank: an estimated 200-gallon non-integral tank is fit with a 3-hp macerator pump.

Discharge Pump: One (1) electric diaphragm pump and one (1) 1-1/2 X 1-1/2 centrifugal pump.

Electric Distribution

Two (2) 24-volt banks of four (4) each 6-volt batteries are for main engine starting.

A 12-volt bank of one (1) 8D battery in the engine room is for auxiliary engine starting.

Distribution of AC electrical power from the two (2) ship's service generators.



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