

IROQUOIS

M/V Iroquois — Technical Specifications

Page | 1

55 ft. Motor Yacht | Hull #194 | Henry C. Grebe & Co., 1965
Restomod Design & Build: Stephens Waring Design, Belfast, Maine
Completion: July 2026 | Inquiries: BuyIroquois.com

This document contains the complete technical specifications for M/V Iroquois as prepared by Stephens Waring Design.

Iroquois underwent a comprehensive restomod at Yankee Marina in Yarmouth, Maine, under the design direction of Paul Waring of Stephens Waring Design. The scope was total: hull structure renewed, every mechanical system replaced, interior reconceived and built from scratch to a bespoke Mid-Century Modern design brief.

The hull form, proportions, and Grebe naval architectural lineage are original. Everything else in the vessel is new.

CONTENTS

- 01 **The Vessel** — *Origins, Provenance & Principal Dimensions*
- 02 **Hull & Structure** — *Construction Philosophy & Structural Renewal*
- 03 **Interior Design & Materials** — *Design Brief, Craftsmanship, Finishes & Appliances*
- 04 **Propulsion & Deck Systems** — *Engines, Drive Train, Maneuvering & Deck Equipment*
- 05 **Vessel Systems** — *Fuel, Fresh Water, Sanitation & Climate Control*
- 06 **Power & Electronics** — *Electrical Architecture, Battery Systems & Navigation Electronics*
- 07 **Safety & Fire Protection** — *Safety Equipment & Suppression Systems*
- 08 **Exterior Finishes** — *Hull Coatings & Bottom Treatment*

01 THE VESSEL

Origins, Provenance & Principal Dimensions

The dimensions below reflect the original Grebe hull. All other specifications in this document reflect the restomod as executed by Stephens Waring Design.

Page | 2

LOA	55 ft. — 0 in.
LWL	46 ft. — 6 in.
Beam	17 ft. — 4 in.
Draft	5 ft. — 10 in.
Displacement	~54,000 lbs.
Hull Number	#194
Documentation	#500214
Builder	Henry C. Grebe & Co., Chicago
Year	1965
Type	Motor Yacht
Naval Architect / Restomod Designer	Stephens Waring Design

02 HULL & STRUCTURE

Construction Philosophy & Structural Renewal

ORIGINAL CONSTRUCTION

Iroquois was constructed utilizing a double-diagonal mahogany planked hull over a closely spaced hardwood framing system built around a substantial longitudinal keel structure. The primary hull framework consists of steam-bent and sawn hardwood frames fastened to a continuous solid keel timber, reinforced by substantial transverse floors.

STRUCTURAL RENEWAL

During the restomod, the hull structure underwent extensive renewal while carefully preserving the original construction philosophy.

- Sections of bottom planking were replaced where necessary, restoring the integrity of the double-diagonal hull skin.
- Floors and longitudinal stringers were rebuilt and reinforced, renewing the internal backbone while maintaining the original engineering intent.
- All work was executed using modern adhesives, fastening systems, and contemporary shipwright practices that enhance durability while remaining faithful to the yacht's traditional wooden structure.

Page | 3

The deck structure — supported by transverse deck beams and longitudinal carlins — was similarly lengthened, refastened, and recaulked, ensuring greater usability, long-term watertight integrity and structural continuity between hull and deck.

The resulting hull form remains true to Grebe's original design: a moderate displacement motor yacht with fine forward sections and a fuller afterbody, delivering a smooth and predictable ride at cruising speeds.

03 INTERIOR DESIGN & MATERIALS

Design Brief, Craftsmanship, Finishes & Appliances

The interior of Iroquois was conceived and built from scratch as part of the restomod scope. The design brief, developed by Stephens Waring Design, is Mid-Century Modern — a deliberate departure from traditional yacht interior conventions.

All joinery, furniture, and finish work is bespoke. The interior reflects the same design authorship as the hull work — a single vision, executed throughout.

ACCOMMODATION LAYOUT

Owner's Suite: Full-beam, ensuite head - private retreat of exceptional scale for a 55 ft. vessel

Guest Accommodations: VIP cabin amidship, dbl berth. Forward dbl, crew/guest, w/ ensuite head, bunk over arrangement

Salon: Social center of the vessel - highly styled, plush seating, elevated for panoramic views, bar / hosting area

Galley: Full beam galley with professional-grade appliances (see below)

Heads: 3 marine heads (Raritan Marine Elegance)

INTERIOR MATERIALS

Wall Paneling: Koa wood

Furniture: Acasian Walnut

INTERIOR MATERIALS, cont.

Cabin Soles: Wenge
Millwork Cladding: Leather
Interior Paneling: Leather clad
Bed / Bunk Rails: Leather clad
Hardware: Custom brass and stainless steel throughout
Plumbing Fixtures: Waterworks brass
Seating & Softgoods: Custom built and custom upholstered
Galley Countertops / Sink: Stainless steel
Bathroom Tilework: Custom

Page | 4

INTERIOR LIGHTING

Overhead Diffused Perimeter: BCM Benedetti Lighting — 10mm flex strip LED
Overhead Puck: IMTRA “Blade” — 3 in. LED
Courtesy: BCM Benedetti Lighting — 6mm flex strip LED
Dimming Control: IMTRA ILIM80130 Lighting/Dimming module, 10 zones
Switch Plates: Forbes & Lomax, brass

GALLEY APPLIANCES

Undercounter Refrigerator

Manufacturer: Thermador
Model: T24UR905LP
Capacity: 5.2 cu. ft.
Power: 110 vAC / 60 Hz, 15A

Built-in Refrigerator / Freezer

Configuration: Custom 72-liter, FRP liner integrated into base cabinetry
Compressor: 2 x Dometic CU-85
Evaporator: Dometic VD-05
Power: 24 vDC, 4–10A

Galley Stove

Manufacturer: Blomberg
Model: BIRC2310SS
Type: 24 in. Stainless Steel Induction Range
Power: 240 vAC, 40A

Galley Hood

Manufacturer: Bosch
Model: 500 Series SS, #HUI50351UC
Capacity: 6 in. duct, 300 CFM
Power: 120 vAC, 40W

Page | 5

Ice Maker

Manufacturer: Isotherm
Model: 5S21A12A00000

Drinks Fridge

Manufacturer: Isotherm
Model: DR65 3065BG7P00015

04 PROPULSION & DECK SYSTEMS

Engines, Drive Train, Maneuvering & Deck Equipment

The entire propulsion system is new-build specification. Twin Cummins QSC 8.3 engines driving through ZF 305-3 reduction gears deliver 592 BHP per engine at 2800 RPM.

PROPULSION

Quantity: 2
Manufacturer: Cummins
Model: QSC 8.3
Rating: 592 BHP @ 2800 RPM
Duty Rating: Light Duty

MACHINERY SPACE SOUND INSULATION

Manufacturer: Soundown
Insulation: 2in. foam/composite
Coverage: Machinery space bulkheads and salon sole underside

REDUCTION GEARS

Manufacturer: ZF Friedrichshafen
Model: ZF 305-3
Type: Reverse gear
Reduction Ratio: 2.5 : 1
Input Speed: 2800 RPM

REDUCTION GEARS, cont.

Output Speed: approx. 1150 RPM

Control: Electronic shift module

ENGINE BEDS, MOUNTS & THRUST BEARINGS

Engine Beds: Aluminum plate fabrication

Engine Mounts: Soundown

Thrust Bearings: AquaDrive — Model HDL 48.960

Shaft Size: 60 mm

Max Static Torque: 12,240 Nm

Page | 6

PROPELLERS

Quantity: 2

Type: Four-blade

Rotation: RH and LH

Diameter: 30 in.

Pitch: 31 in.

Material: Nibral bronze

SHAFTS & BEARINGS

Shaft Material: Aquamet 22 stainless steel

Shaft Diameter: 2.5 in.

Shaft Bearings: Duramax Marine cutlass bearings — 2-1/2 in. ID, 3-1/2 in. OD, 10 in. length

Bearing Locations: Strut and shaft log / tube forward (2 per shaft)

SHAFT SEALS

Manufacturer: Tides Marine

Type: Dripless with water injection

Dimensions: 4 in. O.D. x 2-1/2 in. shaft

STABILIZATION / TRIM CONTROL

Manufacturer: Zipwake

Model: 1000-E Pro (1000mm)

ENGINE CONTROLS

Manufacturer: Kobelt Manufacturing
Model: 6504 electronic control head
Type: Dual lever, electronic actuator at reverse gear
Engine Panel: All engine data integrated into Garmin MFD screens

Page | 7

EXHAUST SYSTEM

Diameter: 6 in.
Primary Material: Rigid FRP pipe
Flexible Sections: Marine hose
Couplings: Soft couplings at transitions
Mufflers: Soundown exhaust muffler system

BOW THRUSTER

Manufacturer: Sleipner / Side-Power
Model: PPC820 (SEP210-24V-1)
Control: Proportional joystick — Model PJC2211
Speed Controller: SMPPC820 PPC820-PROD
Main Switch: Sleipner SM901973, 24V
Power Supply: House battery bank

ENGINE SEAWATER INTAKE

Raw Water Strainers: Groco ARG-2500 BSPP — 2.5 in., qty. 2
Seacocks: Tru-Design composite, 3 in., external scoop intake

OIL CHANGE SYSTEM

Manufacturer: Reverso
Model: GP-3010, 5 ports
Power: 24 vDC
Function: 2 x Engines, 2 x Reverse Gears, 1 x Genset

GROUND TACKLE

Windlass

Manufacturer: Muir
Model: Storm VRC3500, stainless steel
Power: 24 vDC, 1700W
Capstan: Rope to chain

GROUND TACKLE, cont.

Primary Anchor

Manufacturer: Lewmar

Type: Delta anchor, 55 lb. stainless steel

Rode: 200 ft. — 3/8 in. HT galvanized chain

Page | 8

DECK EQUIPMENT

Crane / Davit: MarQuipt MarQ 8 — Hydraulic lift / Manual rotation, 800 lb. capacity, 110 vAC

Dinghy: N/A — capacity for 10–13 ft. LOA

05 VESSEL SYSTEMS

Fuel, Fresh Water, Sanitation & Climate Control

All vessel systems aboard Iroquois are new-build specification. The fuel management system is integrated into the Garmin helm displays, allowing remote-actuated tank selection, polishing, and fuel movement from a single interface. Fresh water and sanitation systems were specified to match the vessel's accommodation scale.

FUEL SYSTEM

Fuel Tanks: 2 x 250 gal. aluminum — approx. 500 gal. total (port & stbd. machinery space)

Deck Fills: Niro Petersen Art 829/853 — 1-1/2 in., USCG A1/A2 diesel hose, marked Diesel

Tank Gauges: WEMA S5U — 1-1/2 in. NPT

Propulsion Fuel Filters: Racor 75500MAX10 — duplex turbine, 98% @ 10 micron, 4 units total

Genset Fuel Filters: Racor 75500MAX10 — duplex turbine, 98% @ 10 micron

Water Sensors: Racor RK20726 — installed on all fuel filters

Fuel Polishing: Racor P510MAM — 24 VDC, 66 GPH

Fuel Hose: Trident Marine SAE J1527-USCG Type A1-15 — brass beaded hose-barb fittings

Distribution & Management: Garmin Screens @ helm — remote-actuated valves (Valworx IOM 5618 series)

SEA VALVES — INTAKES & DISCHARGES

All sea valves are Tru-Design injection-molded engineered plastic. All through-hulls equipped with softwood tapered plugs on lanyards.

Intakes

- (2) Cummins Propulsion — 3 in. Ø
- Genset — 1 in. Ø
- HVAC Compressor — 1-1/2 in. Ø with forward scoop
- Anchor washdown — 1 in. Ø

Discharges

- Exhaust separator outlet — 2-1/2 in. Ø
- Black & gray discharge manifold — 1-1/2 in. Ø
- (5) Bilge water — 1-1/4 in. Ø

FRESH WATER SYSTEM

Fresh Water Tank: 1 x 160 gal. — 316 stainless steel, under owner's bunk, direct connect to pressure system

Tank Gauges: WEMA S5U

Pressure Pump: Headhunter Inc. X-Caliber, 24 VDC

Plumbing: Whale 15mm pipe system

Hot Water Heater: Torrid MVS 10 IX Marine — stainless steel, vertical, 17 gal., 240v / 3000W

SANITATION / EFFLUENT SYSTEM

Marine Toilets: Raritan Marine Elegance — macerator type, freshwater flush, qty. 3

Black Water Tank: 1 x approx. 115 gal. aluminum — machinery space between engines

Gray Water Tanks: 2 x aluminum — 65 gal. (VIP berth), 80 gal. (galley)

Waste Discharge Pump: Headhunter Tortuga diaphragm pump — manifold: 2x gray, 1x black to 1-1/2 in. overboard seacock

Deck Waste Discharge: Niro Petersen Art 589/592 — 1-1/2 in.

Sanitation Hose: Shields Marine Poly-X — 1-1/2 in.

Gray Water Pumps: Whale Gulper 220IC — qty. 3

Tank Level Sensors: WEMA S5U

BILGE & SALT WATER SYSTEMS

Electric Bilge Pumps: Rule 2000 — 2000 GPH, 24V, qty. 8

Bilge Alarm Panel: DMP Automation Solutions — custom, 4 compartment x 8 pump monitoring, integrated into distribution panel

Washdown Pump: Groco Paragon Sr., 24 VDC

HVAC SYSTEM

Climate control is delivered by a central Variable Refrigerant Volume (VRV) chiller system supplying individual air handlers throughout the vessel. Heating is reverse-cycle via the same system. Machinery space sound insulation ensures mechanical noise does not carry into accommodation spaces.

Page | 10

Central System

Supplier: Boat RX / Termodinamica
Type: Central chiller — VRV
Capacity: 80 kBTU total
Central Compressor: VRT30X1, 230 vAC 50/60 Hz

Air Handlers by Zone

Salon: Maxi 18 (x2) — 18 kBTU each
Galley: Maxi 18 — 18 kBTU
Forward Cabin: Maxi 18 — 18 kBTU
Master Cabin: Maxi 30 — 30 kBTU
Aft Cabin: Maxi 18 — 18 kBTU
Wheelhouse: Maxi 18 — 18 kBTU
Heating: Reverse-cycle via air conditioning system

06 POWER & ELECTRONICS

Electrical Architecture, Battery Systems & Navigation Electronics

The electrical and electronics systems aboard Iroquois were specified from scratch. The architecture is built around a Victron LFP battery bank, WhisperPower variable-speed generator, and Victron Quattro inverter/charger, providing reliable, quiet power at anchor and underway.

The navigation electronics package is a fully integrated Garmin ecosystem, with all engine data, fuel management, and system monitoring brought into the helm displays.

All wiring meets NFPA 302, ABYC Safety Standards, and National Marine Codes. Tinned stranded copper conductors throughout, rated 105°C, labeled at both ends, AC and DC separated where possible.

AC ELECTRICAL SYSTEM

DC Voltage: 24 VDC general distribution, 12 VDC electronics
AC Voltage: 240 VAC & 120 VAC, 60 Hz

Generator

Manufacturer: WhisperPower
Model: Piccolo 15 Stage V / Tier 4 — variable speed diesel
Output: Dual phase 120/240 VAC, 15 kVA / 12 kW
Speed Range: 2200–3200 RPM

Page | 11

Inverter / Charger

Manufacturer: Victron Energy
Model: Quattro
Capacity: 8 kVA
Charger: 200A

Shore Power

Transformer: Victron Isolation Transformer — 7000W, 230V / 50A
Cable Handling: Glendinning Cablemaster CM-7 — 100 ft., 50A
Grounding: Marinc Dynaplate — 18 x 6 in.

DC ELECTRICAL SYSTEM

Battery Banks

Ship Service Bank: 4 x Victron LFP Smart 25.6/200 — 24V parallel, 800 AH @ 24 vDC
Engine Start: 2 x Victron 4D AGM — series for 24 vDC, one bank serving both engines
Electronics Battery: 1 x LiFePO4 — 12V, 300 Ah
Genset Start Battery: 1 x Group 24, 12 VDC

Charging & Distribution

Propulsion Alternators: Prestolite Electric — 80A @ 24V, each engine
DC/DC Converters: Victron: 24/12-30 (x2), Orion TR Smart 24/24-17 (x2)
Distribution: 2 x Victron Lynx Class-T Power, Lynx Distributor
Battery Management: Lynx Smart BMS
Battery Protect: Victron Smart Battery Protect w/ Bluetooth — 12/24 VDC, 220A
System Monitor: Victron Cerbo GX MK2 with GX Touch70 display
Chargers: Chargemaster Plus 24 vDC/100A and 24 vDC/75A
Genverter Module: Whisper Power PMG 15 kW

NAVIGATION ELECTRONICS

The electronics package is a fully integrated Garmin system. All navigation data, engine telemetry, and fuel management are accessible from the helm displays.

Helm Displays

Chartplotters: Garmin GPSMAP 9219 — premium chart plotter with Garmin Navionics+, qty. 2
Radar: Garmin GMR Phantom 56 — open array with pedestal
Satellite Compass: Garmin MSC 10 — heading sensor and multi-band GPS receiver
Depth / Speed / Temp: Garmin/Airmar DST 810 Smart Transducer

Communications

VHF Radio: Garmin VHF 315
AIS: Garmin AIS 800 — blackbox transceiver
VHF Antenna: Digital Antenna 826-VW — 4 ft.
Internet / Satellite: Starlink Standard Gen 4 Kit

Vessel Systems Integration

Autopilot: Garmin Reactor 40 Steer-by-Wire with GHC 50 — interfaced to Dometic Optimus steering
Steering: Dometic Optimus — 24 vDC, tilt wheel
IP Cameras: Garmin GC 200 marine IP cameras, qty. 2
Network: Garmin BlueNet 20 Switch (x2), NMEA 2000 Starter Kit
GPS Receiver: Garmin GPS 24xd for NMEA 2000 network
Searchlight: ACR Electronics RCL-100 LED — 12/24V
Horn: Kahlenberg air horn with D-OA compressor

AUDIO SYSTEM

Hideaway Stereo: Garmin Fusion Apollo MS-WB675
Zone Stereos: Garmin Fusion Apollo MS-SRX400 with built-in Wi-Fi and Ethernet, qty. 3
AM/FM Antenna: Digital Antenna 531-AW — 4 ft.

NAVIGATION LIGHTING

Full Lopolight LED navigation light package — silver anodized finish, COLREGS compliant.

Starboard Sidelight: Lopolight 101-001 — green, 112.5°, 1 nm
Port Sidelight: Lopolight 101-002 — red, 112.5°, 1 nm
Stern Light: Lopolight 301-006 — white, 135°, 2 nm
Masthead Light: Lopolight 201-010 — white, 225°, 2 nm
Anchor / All-Round: Lopolight 200-012G2-UL — white, 360°, 2 nm

07 SAFETY & FIRE PROTECTION

Safety Equipment & Suppression Systems

Safety equipment is USCG-compliant and specified for offshore use. The engine room fire suppression system is fixed automatic installation. All electrical systems meet NFPA 302 and ABYC Safety Standards.

Page | 13

LIFE SAVING EQUIPMENT

Life Jackets: USCG Type I — qty. 8

Horseshoe Buoy: Cal-June — USCG Type IV

Flare Kit: Orion Safety Products 911 Ultimate Offshore — 25mm kit

FIRE PROTECTION

Portable Extinguishers: Kidde Halotron — qty. 4

Engine Room System: Fireboy-Xintex MA0700NVC — fixed automatic, 700 cu. ft. capacity

08 EXTERIOR FINISHES

Hull Coatings & Bottom Treatment

Exterior finishes were selected for durability, long-term appearance, and serviceability. The hull coating and varnish specifications are industry-standard for a vessel of this caliber — familiar to any competent yard.

Exterior Hull Coating: Awlgrip — linear polyurethane

Superstructure Varnish: Epiphanes Exterior Gloss

Bottom Paint: International Paint Micron CSC — 3 coats

For inquiries, full documentation, and viewing arrangements:

BuyIroquois.com

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