



## Selene 78 Explorer

### Description

The more minor sister to the 98 Ocean Explorer, the 78 has the same features but in a slightly smaller boat. This boat results from an international collaboration of designers and architects under Howard Chen's design team leadership. Working closely with renowned Dutch architect Guido De Groot and a group of International consultants, they have developed a

### General

Year:	2024
Price:	\$POA
Additional Charges:	Plus GST, Duty & Freight
Boat Type:	Power
Hull Type:	Displacement Motoryacht
Location:	Offshore

Selene 80 Fishing Classic delivered

Diesel

Engine/Fuel:

Hull Material:

GRP

Dimensions

Length:	78 ft
LOA:	78'6"
Beam:	21'9"
Draft:	6'4"
Displacement:	108 ton

Builder / Designer

Builder:	Jet Tern Marine
Designer:	Guido de Groot/Howard Chen

Construction

A Hull lamination:

1 Hull lamination schedule per construction plan, the area below the water line to use “Isophthalic” Gelcoat and vinyl ester resin for the first five (5) layers. Deck lamination schedule per construction plan. Construction plans for the structure are to be based on standards set by the American Bureau of Shipping (ABS).

Engine

Main Engines

Port Main Engine:

Propellers:

- 1 NiBrAl alloy 4-blade counter-rotating propellers. Propellers to be built to I.S.O. class 1

Engines

No. of Engines:	2
Engine Brand:	Cummins QSL9
Engine(s) HP:	2 x 405
Cruising Speed:	10
Max Speed:	14

Tankage

Fuel:	4200 gal
Water:	600 gal
Holding:	250 gal Grey

- Cummins QSL9 405 Hp @ 2100 rpm Heavy duty rating rating. Wet exhaust & 24VDC starting
- Gear Box: ZF 360, 2.917:1 reduction
- Alternators: 24VDC, 80AMP
- Walker "Air Sep" crankcase ventilation
- Two (2) 4D batteries connected in series for 24VDCstart
- Engine beds have a 1/2" stainless steel cap on top of the bed and a 1/4" plate on the sides; plates are to be highly polished stainless steel.
- Each engine is mounted on (4) resilient mounts
- FRP drip pan under engine

#### Starboard Main Engine:

- Cummins QSL9 405 Hp @ 2100 rpm Heavy duty rating rating. Wet exhaust & 24VDC starting
- Gear Box: ZF 360, 2.917:1 reduction
- Alternators: 24VDC, 80AMP
- Walker "Air Sep" crankcase ventilation
- Two (2) 4D batteries connected in series for 24VDC start
- Each engine is mounted on (4) resilient mounts
- FRP drip pan under engine

#### Engine Controls and Panels:

- Three (3) stations: pilothouse, flybridge, and aft deck.
- Engine instrument panels with an alarm will monitor the Tachometer, Engine oil pressure, Engine water temperature, System voltage, Gear oil pressure and fuel burn for each main engine. Cummins Vessel view display for pilot house & flybridge (2 units)

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#### Propeller Shafts:

- 1 Aqualloy 22 or equivalent, 3" diameter
- 2 Taper details: Standard SAE
- 3 Line cutters on each main engine shaft

#### Stern tubes:

- 1 Material: FRP
- 2 Bearings: rubber cutlass type
- 3 Stuffing Box: bronze
- Fuel Filter(s):
  - 1 Two (2) Racor 75-900MAX duplex filters in addition to a secondary engine-mounted filter for each engine
  - 2 One (1) Racor 75-500MA filter and secondary generator mounted filter for the generator engine. Optional second filter for optional generator.



## Electrical System

### The AC electrical system:

- 1 The vessel is fitted with two (2) 240VAC shore inlets at the stern. The ship's shore power is fed through a 12KVA, 220-250VAC, 50/60Hz isolation transformer. AC selector control switches allow the operator to select the source(s) of power from either the generator(s) or shore power. The HVAC (air conditioning) may be operated from the ship's shore power or its own dedicated shore power inlet, which is also equipped with a 12kVA, 220-250VAC, 50/60Hz isolation transformer. The air conditioning may be operated from 50 Hz or 60 Hz. AC service is distributed through custom electrical panels containing 240VAC and 120VAC sections, volt and amp meters and individual breakers and fuses for branch circuits.
- 2. There are two (2) 12kVA shore power isolation transformers and two (20) shore power input connections at the stern of the vessel.
- 3 120/240VAC, 7.0kVA inverter systems are used for limited ship power, control power to the helm station, and refrigeration during times when the generators and shore power are offline.
- 4 AC Outlets are standard US format 120VAC. Locations TDB
- 5 All outlets in head compartments, mechanical spaces, exterior and galley are GFCI type. All external outlets have waterproof covers.
- 6 One (1) Glendinning shore power cord retrieval system will be provided for the 240VAC, 50 amp. Ship's shore power connection. The system will be provided with 50' of shore power cable. The shore power inlet will be located at the stern of the vessel.

### The DC electrical system:

- 1 The DC electrical system is a 24VDC distribution system with a maximum capacity of 800 amp/hours. The DC system powers the ship's inverter system, the helm station's DC equipment, and service. DC service is
- Distributed through custom electrical panels containing 24VDC and 12VDC sections, volt and amp meters and individual breakers and fuses for branch circuits.
- 2 Standard batteries are located per machinery layout drawing
- Three 24VDC ships battery bank - Consists of 12, 2-volt AGM batteries @ 800 A/H, each connected in series. A total battery bank capacity of 800 amp/hours is provided for emergency, control, ship equipment and limited operation without operation of a generator or shore power connection.
- 4 12VDC helm power is drawn from one 200 A/H battery and a 24 to 12VDC converter system
- 5 Port main engine starting - (2) AGM batteries connected in series for 24VDC starting. Switching logic to parallel 24VDC ship's bank for emergency starting.
- 6 Starboard main engine starting: 2 AGM batteries connected in series for 24VDC starting. Switching logic to parallel with 24VDC ship bank for emergency starting.
- 7 Generator starting- (2) - Group 31 AGM batteries connected in series for 24VDC starting and switching logic to parallel 24VDC ship's bank for emergency starting.

- 8 #2 Generator starting- (2) – Group 31  
AGM batteries are connected in series for 24VDC starting and switching logic to parallel with 24VDC ship bank for emergency starting.

## Interior

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- 1 Teak, cherry or oak veneer ( straight grain or mountain grain )
- 2 Bulkheads, teak or cherry veneer
- 3 Formica finished ceiling & bulkhead for bathroom
- 4 Drapery or blinds for saloon & each stateroom
- 5 Grab rails, teak
- 6 Headlining, acoustical vinyl
- 7 Push button for all door lockers & drawers
- 8 Carpet, teak & holly or wood parquet interior floor for cabins
- 9 Metal non-skid flooring for engine room
- 10 Floating floor
- 11 Tinted tempered window glass 10~12 mm
- 12 Clear tempered glass 12mm for front windshield
- 13 Corian or granite head floor
- 14 Granite galley countertop w/back splash
- 15 Granite head countertop w/back splash
- 16 Interior steps to all teak. Corner of steps to have nonskid varnish.
- 17 Interior lockers and drawers to be locked with chrome push button
- 18 Interior overhead panels – Removable, held in place by Velcro.
- 19 Interior door lock sets to be chrome brass
- 20 Interior cabin doors to have rubber gaskets for sound reduction and door hooks
- 21 hanging lockers will have automatic interior lights controlled by a micro switch. Lined with Cedar.
- 22 Solid (non-louvered) cored doors for heads and staterooms 1.25" thick with rubber gaskets on door jambs
- 23 Interior teak woodwork, including cabin sole in the pilot house, to be varnished with 60% gloss varnish
- 24 Salon tables, pilothouse table to be varnished with high gloss varnish
- 25 All handrails are to be teak.
- 25 The Structural bulkheads dividing staterooms and heads will have ¾" furring strips on each side to allow the application of ¾" thick sound insulation. The finished bulkhead material of 3/8" thickness will be applied over this.
- 26 Mirrors are located throughout the vessel as shown on interior drawings
- 27 All drawers to have stainless steel ball-bearing slides

## Master Cabin

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### Master Cabin:

- 1 Floors: Carpet with two lb./sq. ft. 1/2" thick Soundown under lamen pad
- 2 Cabinet/paneling: Varnished teak
- 3 Mattress: Standard Queen size
- 4 Port and starboard berth cabinets & drawer bureaus
- 5 Full high wardrobe and dressing room with automatic light and aromatic cedar liner
- 6 Safe located at the master stateroom
- 7 Sofa and coffee table to the port master cabin
- 8 TV/Video cabinet
- 9 Desk with stool
- 10 Teak headboard frame

### Master Stateroom En-suite Bath:

- 1 Floors: Ceramic or stone tile to be specified with an order
- 2 Countertop: Granite with bull-nosed edges
- 3 Mirrors and towel bars: As shown on drawings (TBD)
- 4 Molded FRP shower stall with frameless glass doors
- 5 Cabinet/joiner work: All teak
- 6 Locker and drawer interior finish: Formica
- 7 Toilet paper holders: TBD
- 8 Vanity unit w/integral wash basin, two sets
- 9 Teak removable grating panel for shower room
- 10 Medicine cabinet with mirror
- 11 Vanity mirror w/teak frame

## OnDeck

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### EXTERIOR, DECK HARDWARE and EQUIPMENT

- 1 All horizontal surfaces on the deck to have a diamond pattern nonskid as shown in the deck plan – standard nonskid to be a contrasting colour to the parameter deck
- 2 Stainless 316 handrails 2"OD with electro-polished bases. All rails shown on drawings to be standard in addition to those specified
- 3 Handrails at transom
- 4 Handrail around aft deck coaming 2" dia.

### Horn:

- 1 Kahlenberg dual trumpet #D-1 with chrome finish and fog timer 230VAC compressor w/24VDC solenoid

### Deck hatches:

- 1 Lewmar #70 "Ocean Series" will include insect and privacy screens per the deck plan. One
- (1) Lewmar #60 "Ocean Series" will include insect and privacy screens.

- 2 Install (1) Lewmar #70 “Ocean Series” on the port side of the lower platform to access the flybridge hardtop.

#### Windows:

- 1 Windows 10-12mm” thick tempered glass
- 2 All side windows to be tinted glass
- 3 All salon and pilothouse windows are recessed 1”.
- 4 All salon windows to have storm plate receptacles

#### Exterior Doors:

- 1 Aluminum doors by Pacific Coast Marine as follows (Note: interior as well as exterior PCM doors are included in this schedule):
- 2 Pilothouse-2ea, Weather Tight Dutch door, one L.H. Mortise hinge, one R.H. Mortise hinge. C.O. 21” x 73”
- 3 Salon after-1ea, Weather Tight double opening door with all glass panels. 48” x 73”
- 4 Salon port side, weather-tight door, one RH Mortise hinge
- 5 Engine room-1ea, Water Tight model no. PCM4170-W with sound blanket core, painted. L.H. surface mount hinge. C.O. 21” x 73”.
- J Boarding doors: 1 Port and starboard—opening in two pieces. The top folds up and over, and the bottom opens outboard. Stern doors on port and starboard side aft per drawing. Doors will have “blind” dog locks/handles. Each is provided with a built-in boarding ladder.

#### Davit:

• 1 Richie Compass

- 2 Helm station w/console box
- 3 S/S destroyer steering wheel
- 4 One (1) Selene helm seats
- 5 Corian integrated wash basin w/folded faucet
- 6 FRP table ( 1 or 2 )
- 7 Chart countertop
- 8 FRP settees ( 1 or 2 ) w/storage underneath, w/Sunbrella cushion set
- 9 Built-in FRP locker P&S
- 10 Mini bar with S/S grab rail
- 11 Tender storage space on the flybridge deck

Bow (Sundeck):

- 1 One (1) FRP settee with cushion set
- 2 One (1) Table w/ S/S table pedestal
- 3 FRP bar unit

Anchor Storage:

- 1 Stainless steel 316 anchor pockets port and starboard.

Rails and Stanchions:

- 1. Stainless steel 2" dia. 316 rails and stanchions on the upper deck and F/B deck . The rails will be welded on round bases with fastening studs on the bottom and dual 1 1/2" divider rails, as shown on the drawing.

Foredeck Rail:

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- 1 2200 LB capacity hydraulic/240VAC davit with an extendable boom to 20 feet mounted per drawing.

Bottom treatment:

- 1 Five (5) layers of epoxy barrier coat and three (3) coats of anti-fouling paint

Deck Drains:

- 1 Bridge deck and Fly Bridge deck to drain through 2" deck drains.
- 2 Lower side decks to drain through freeing ports and scuppers.

Control stations:

- 1 Port and starboard side of forward bridge deck equipped with helm controls, bow and stern thruster controls, start/stop/horn.
- 2 Aft deck control station equipped with helm controls, bow and stern thruster controls, start/stop/horn.

- P FRP hardtop over F/B:

- 1 FRP hardtop over F/B with moulded in non-skid 4"dia. Stainless steel support stanchions at the forward end, port and starboard

- Q Stern capstan winches:

- 1 Two (2) Maxwell VC 2200 port and starboard cockpit

Flag Staff:

- 1 60" teak flag staff with 1 1/2" socket for aft P/B deck rail.
- S Anchor:



- 1 Two (2) 200 lb. stainless steel POOL type
- T Anchor Chain:
- 1 Two (2) Lengths, 400 ft. 1/2" (12mm) chain
- Swim ladder:
- 1 Stainless steel with teak steps mounted on swim step under FRP hatch accessible from the water

#### Tender Docking:

- 1 Two (2) fold-up style 10" cleats on swim step port and starboard for dinghy tie-up
- Anchor Windlass and Fittings:
- 1 Dual matched set of Maxwell VWC 4000 hydraulic three (3) station controls pilothouse, flybridge, aft deck and foot switches with chain counters and band brake and 1/2" (12mm) chain gypsy x 2
- 2 Chain stoppers with devil claw chain tensioner for 1/2" diameter chain
- X Exterior locker doors:
- 1 All exterior locker doors to use flush stainless steel pull rings for latches
- 2 All exterior locker doors to have stainless steel louvred vents
- 1 Port and starboard side of F/B deck

#### Foredeck lockers:

- 1 (2) flush style port and stbd. as shown on drawings. Hinges to be Freeman Style “Large Yoke” with gas shocks

#### Deck Locker Misc.:

- 1 All deck lockers and stowage boxes must be fitted with stainless steel gas shocks of the proper rating.

### Inventory

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#### STANDARD EQUIPMENT

- 1st Onan 33kw Generator
- 2nd Onan 17kw generator
- Aqualloy 22 propeller shafts or equivalent
- ABT TRAC #370 digital stabiliser system with 12 ft. fins and dual station control
- Kobelt hydraulic steering system
- 220lb capacity hydraulic/240V AV davit with extendable boom 20 ft.
- Two Maxwell VWC 3500 Windlasses
- Two Maxwell VC 220 Capstans at the port and starboard cockpit
- One 50-gallon with dual 240v elements hot water system
- ESI Fuel polishing system
- Reverso oil change pump
- BEP electrical main circuit breaker panels
- Seafire fixed fire extinguishing system

### Optional Extras

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#### OPTIONS:

- Awlgrip, Alexseal, or Awlcraft PU painted colour hull
- Davit upgrade to 3500lbs.
- Underwater lighting
- Teak deck on F/B helm station
- Teak deck on the Portuguese bridge deck, the fore deck.
- A teak coaming on the rail for foredeck, aft deck and flybridge
- Helm Navigation, Communications and Entertainment package Ships monitoring system for all vital systems onboard
- Upgrade the stabilizers to the ABT Trac Star system ( at anchor stabilization). Note that this requires the optional generator to be installed with increased capacity and hydraulic PTO to drive the system at anchor.
- Rear & E/R camera monitoring system
- Passarelle

- Tecma freshwater toilets
- Cruisair air conditioning system
- Liebherr or equivalent home-size large refrigerator in the galley
- Raritan or equivalent ice maker
- Siemens or equivalent microwave

## Pilothouse

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- 1 Floors: Teak – varnish
- 2 Cabinet/joiner work: Varnished teak
- 3 Countertops and instrument panel faces:
  - Formica #939 dark grey
- 4 Teak table at settee to slide in and out.
- 5 Settee aft with chart drawers under
- 6 Helm seat – Stidd 500N-2X2 Low Back
- “Slimline”. Ultra-leather and pedestal colours are the buyer’s choice
- 7 Chart table w/Cantalupi “Rico” chart light
- 8 Locker interior finish: Formica
- 9 Bookshelves and chart drawers as located per interior drawings
- 10. The Top of the instrument console to be wrapped in
  - black leather or ultra leather

## Crew Cabin

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- 1 Floors: Carpet with pad
- 2 Cabinetry and joiner work: Formica with teak trim
- 3 Mirrors, as shown on interior drawings

### Crew head

- 1 Floors: Lonseal #154 Sandstone
- 2 Cabinetry: Formica with teak trim
- 3 Shower to be moulded FRP

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- 4 Countertops: Granite with bull-nosed edges
- 5 Aluminum/glass bi-fold shower door
- 6 Towel bars TBD
- 7 Toilet paper holder TBD
- 8 Full height mirror over sink L Forward port and starboard guest cabins
- 1 Floors: Carpet with two lb./sq. ft. 1/2" thick Soundown under layment pad
- 2 Cabinet/paneling: Varnished teak
- 3 Hanging locker interior finish: Cedarwood
- 4 Dresser outboard
- 5 Drawers under the bunk
- 6 Mattresses: Custom 5" thick foam
- 7 Nightstands next to bunk
- 8 Teak headboard frame

## Saloon

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- 1 Floors: Carpet with two lb./sq. ft. 1/2 thick
- Soundown underlayment pad
- 2 Sofa with hi-lo foldable teak parquet table
- 3 Entertainment centre w/pop-up TV cabinet
- 4 S/S sliding door for saloon entrance
- 5 OceanAir blinds w/drapes
- 6 TV lift for 50" plasma TV on the side of salon (TV not included)
- 7 Prewire for surround sound speakers
- 8 Teak valance/air con soffit P&S and aft sides of the salon
- 9 Two overhead teak hand rails

### Dining Room:

- 1 Leaf style dining table seats for 6 persons or a circular table w/settee for four and two loose chairs
- 2 Cabinet storage below windows to starboard
- 3 Wood/mirror overhead lighting over the dining table area

- 10 Mullions along the port and starboard side for installation of window treatments
- 11 Overhead to have perimeter recess with strip lighting

#### Day Head:

- 1 Floors: Teak
- 2 Countertop: Granite with a bull-nosed edge
- 3 Mirror and towel bar as shown on the drawing
- 4 Cabinet/joiner work: All teak
- 5 Locker and drawer interior finish: Formica
- 6 Toilet paper holder and Towel bar: TBD

#### Vip Cabin

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- 1 Floors: Carpet with two lb./sq. ft. 1/2" thick Soundown under lament pad
- 2 Cabinet/paneling: Varnished teak
- 3 Mirrors, as shown
- 4 Hanging locker with Cedarwood lining
- 5 Drawers under berths
- 6 Mattresses: Custom 5" thick foam x 2
- 7 Forced air ventilation system with adjustable blower
- Vanity mirror w/teak frame

#### Galley

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- 1 Subzero or Liebherr home-size large refrigerator \*
- 2 Microwave \*
- 3 Electric range and oven \*
- 4 Dishwasher \*
- 5 Trash compactor \*
- 6 Exhaust fan \*
- 7 Granite countertops
- 8 S/S double sink
- 9 Single lever swivel type retractable faucet
- 10 Overhead cabinets
- 11 Drawers & storage lockers w/shelves under counter
- 13 Sliding doors to the galley to have frosted glass panels



