450 S

Technical specifications

LAGOON

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Technical data

Length overall	13.96 m / 45'10"
Waterline length	13.38 m / 43'11"
Maximum beam	7.87 m / 25'1''
Air draft	22.33 m / 73'3''
Draft	1.30 m / 4'3''
Displacement (CE)	15.00 t / 33,075 Lbs
Upwind sail area (std mainsail)	130 m² / 1399 sq.ft.
Upwind sail area (square top mainsail)	132 m² / 1420 sq.ft.
Fully battened mainsail	79 m² / 850 sq.ft.
Square top mainsail (option)	81 m² / 872 sq.ft.
Self-tacking jib	/
(Furling genoa)	51 m² / 549 sq.ft.
Code 0 (option)	93 m² / 1001 sq.ft.
Fresh water capacity	2 x 175 L / (2 x 46 US gal)
Fuel capacity	2 x 520 L / (2 x 137 US gal)
Engines	2 x 45 hp CR to 2 x 57 hp CR
Architects	VPLP Design
Exterior Design	Patrick le Quément
Interior Design	Nauta Design
Number of berths	6 to 12
CE Certification	A : 12 - B : 14 - C : 20 - D : 30

NORTH AMERICAN SPECIFICATIONS
Only for boats sold in USA

- 120V Electric panel and electric equipment
- US 120V outlets
- Gas propane circuit with solenoid valve

Construction

- Polyester and high quality anti-osmotic resin
- Hull, deck and coachroof laminated by infusion
- Balsa core hull, solid laminate under waterline, white gelcoat
- Balsa core bridge deck and deck
- Laminated marine plywood bulkheads

Sails and rigging

SAILS

- 1 high roach mainsail in Dacron with battens
- 1 genoa in Dacron with UV protective band

STANDING RIGGING

- Three-stayed aluminum mast with mainsail ball-bearing track system
- Aluminum boom
- 2 encased capshrouds
- 2 shroud chainplates
- 2 forestay chainplates
- 1 genoa forestay with manual furler
- Adjustable lazy-jacks
- Deck light on the mast

RUNNING RIGGING

- 1 double purchase Spectra mainsail halyard
- 1 Spectra Genoa halyard
- 1 mainsheet, pre-stretched
- 2 genoa sheets, pre-stretched
- 1 boom topping lift
- 3 reefing lines (1st Dyneema)
- 1 genoa furling line, pre-stretched
- 2 mainsail traveler car control lines, pre-stretched

Hardware

- 3 manual winches 60.2 STA
- Genoa tracks with genoa car and stopper
- Anodized aluminum crossbeam with fixing point for the genoa furler, anchor roller and navigation lights

Mooring and anchoring

- Composite longitudinal crossbeam with integrated chain run and mooring cleat
- 8 mooring cleats

- 1700W / 12V electrical windlass with vertical axis, gypsy (chain 12mm) in the anchor locker
- Access to windlass and to anchor locker

Engines

- 2 diesel engines YANMAR 4JH45 45hp common rail saildrive
- Fixed 2 blades propeller
- Raw water filter
- Mechanical engine throttles at the helm station
- Engine compartment ventilation: electrical extraction in the aft transom
- Fuel circuit:
  - 2 aluminum tanks of 2 x 520 liters / 137 US gal
  - Fuel filter systems
  - Fuel shut off valve
  - Gauge at the general control panel on touch screen

Plumbing

FRESH WATER CIRCUIT

- Fresh water tank: 2 x 175L / 46 US gal with gauge at the chart table
  Gauge at the general control panel on touch screen
- Fresh water circuit with 1 main water pressure pump in the port passageway
- 60L / 16 US gal electric water heater, 230V/engine heat exchanger

GREY WATER

- Shower and sink drained by timer and push button

BLACK WATER

- 3 cabin 3 head version: 3 tanks 80L / 21 US gal (total 240L / 63 US gal)
- 4 cabin 4 head version: 4 tanks 80L / 21 US gal (total 320L / 85 US gal)

BILGE PUMP CIRCUIT

- 1 manual bilge pump in each hull with cockpit pump
- 1 automatic submerged bilge pump per hull
- 1 manually activated non-submerged bilge pump per hull

Electrical

POWER CIRCUIT DC – 12V

- 2 harnessed alternators 125A
- 2 AGM start batteries 12V - 50A
- 3 AGM service batteries 12V - 140A

Battery circuit breakers under the bed in the aft starboard cabin

ELECTRIC DISTRIBUTION PANEL

- 12V General distribution panel at the chart table with protection by circuit breaker
- Ammeter, voltmeter, circuit breaker, panel lighting
- USB sockets 12V included in the electrical panel

LIGHTING

- Recessed 12V LED spotlights in ceiling
- 12V LED reading light next to bunks
- 12V LED chart table light
- 12V lighting in engine compartment
- LED navigation lights

Deck layout

TRANSOM

- Hot/cold deck shower on starboard
- S/s telescopic swim ladder with fixed handle on starboard
- Storage on the side of the transom (port and starboard)

AFT COCKPIT

- Large cockpit usable as a deck saloon, protected by a hard top bimini
- U-shaped bench seat to port with storage locker
- Gas locker (2 bottles of 10 kg / 22 lbs)
- Removable polyester cockpit table 8/10 people
- Large storage locker with possibility to install option like icemaker and synthetic resin countertop
- 1 Lounger with locker in the seat, to starboard
- Waste bin with upper access and lateral door on port side
- Storage locker with top access (70 L / 18 US gal) and scupper on port side
- Polyester fiddle anti-runoff on the sides of the cockpit

HELM STATION

- Composite staircases for access from the cockpit
- Double helm seat
- Leather covered s/s steering wheel 800mm (31") diameter
- Engine throttle and panel
- Console for screen and instrumentation
- Cup holder
- Halyard and sheet storage
- Access to coachroof via a staircase with teak steps and s/s structure + handrail

- Storage bag for the halyards on the port side of the helm station
- Composite locker with flap for the storage of the halyards (under the staircase for access to the coachroof, along the saloon/cockpit bulkhead)

FORWARD COCKPIT

- U-shaped bench seating area
- Storage locker under the starboard side seat – generator access
- Storage locker under the port side seat
- Storage locker under the central seat
- Trampoline (nylon)

BOW LOCKERS

- Locking bow lockers with access through flush deck hatches, LEWMAR T60
- Wooden flooring
- Grey painting
- Lighting

STANCHIONS AND LIFE LINES

- Pushpits with flag support
- Stanchions: H 610mm / *24in*
- Double lifelines

Windows, openings and ventilation

- Sliding door
- Deck hatches:
  - Flush deck hatch T10
  - Flush deck hatch T44
  - Flush deck hatch T60
- Hull portholes
  - Fixed PMMA portholes with integrated openings

Interior layouts

GENERAL

- Interior woodwork in Alpi Walnut plywood
- Asburgo laminated floor
- Cabin access doors (no sills)
- Bathroom access doors with sills
- S/S handrail leather covered
- Fabric-covered plywood ceiling panels or fiberglass liners in cabins and bathrooms
- Fabric-covered plywood on hull liner in cabins

- Polyester ceiling and fabric-covered plywood in the saloon

STANDING HEADROOM

Saloon:	2.06m / 6'9''
Cabin:	2.04 m / 6'8''
Bathroom:	2.04 m / 6'8''

MATTRESSES AND UPHOLSTERY

- Marine mattresses made of multi-layer alveolar foam with several densities (tick. 130mm / 5in)
- Mattresses treatment: anti-microbial, anti-bacterial, non-allergenic, anti-dust mite
- Standard upholstery as indicated on Lagoon sample book
- Synthetic fabrics adapted to marine environment:
  - washable (40°C / 104°F)
  - U.V. resistant
  - water repellent, with anti-stain treatment
- Blackout curtains in the cabins and saloon
- Mosquito screen and blinds for deck hatches

3 cabin 3 bathroom version

SALOON

- Sliding door and window with aluminum lock for the access to the cockpit, can be locked open or closed
- Large varnished saloon table exchangeable with the polyester table from the cockpit (and the low table in option) and convertible in berth
- 6-person L-shaped bench seat to starboard
- Lockers under the bench
- Various high and low storage on the starboard cupboard in front of the table (option TV / option second fridge or freezer)
- Storage niche on the side edge *(essential equipment)*
- Fabric covered steel mast support strut
- 2 opening portholes in the front window
- 1 opening porthole in the port window

CHART TABLE

- Large instrument console with panel to install the electronics
- Stool
- Desk with flaps
- 2 storage niches

GALLEY

- U-shaped galley, to port
- Corian® Warm Grey countertop
- Double s/s sink with hot/cold mixer tap
- Storage under the sink
- 3 burner gas stove
- Grill oven with s/s inside
- Flap under the oven
- Bottle storage
- 12V 130L / 34 US gal fridge with wooden front door
- Storage unit with drawers (dishwasher optional)
- High-level cupboards on port side (microwave optional)

PORT HULL

Aft cabin

- 1 double bed with lateral access (2.05 x 1.60 m / 6'9''x5'3'')
- 2 bed nightstands, one with storage
- 2 under bed drawers
- 1 full-height wardrobe – outboard side
- 1 long shelf
- 1 low cupboard with shelves – inboard side
- 1 opening deck hatch
- 1 opening porthole
- 1 fixed hull window in Plexiglas white silkscreen printing

Aft and forward bathroom

- Composite countertop and sink
- Hot/cold mixer tap
- High cupboards with 2 mirrored doors
- Separate shower with Plexiglas door
- Composite shower duckboard
- Large manual toilet
- 1 opening deck hatch

Forward cabin

- 1 double bed with lateral access (2.05m x 1.60m head x 1.10 foot / 6'9''x5'3''x3'7'')
- 1 under-bed drawer
- 1 large mirror above bed head
- 1 cupboard with wardrobe (upper part) and shelves (lower part) – inboard side
- 1 storage niche with on central shelf – outboard side
- Bookshelves on 2 levels
- 1 opening deck hatch
- 1 opening porthole
- 1 fixed hull window in Plexiglas white silkscreen printing

STARBOARD HULL

Aft cabin

- Sliding door with locker
- 1 double bed with lateral access (2.05 x 1.60 m / 6'9''x5'3'')
- 2 bed nightstands with storage
- 1 under bed drawer
- 2 low-level cupboards at the foot of the bed
- 2-seater sofa with storage
- Sideboard adjacent to the sofa
- Desk with flap
- Large storage cupboard with 4 doors and 1 bookshelf – outboard side
- Cupboard unit with:
  - 2 doors wardrobe + 1 door with shelves – upper part
  - 3 drawers and shelves – lower part
- 3 opening deck hatches
- 1 opening portholes
- 1 fixed hull window in Plexiglas white silkscreen printing 910x423 mm / 3'x1'5''

Forward bathroom

- Composite countertop and sink
- Hot/cold mixer tap

- High cupboards with 3 mirrored doors
- Low-level cupboards 4 doors under the sink
- Separate shower with Plexiglas glass door
- Composite shower duckboard
- Large manual toilet
- High-level cupboards 2 doors
- 1 fixed hull window in Plexiglas black silkscreen printing 910x423 mm / 3'x1'5'' with 1 integrated 1 opening deck hatch
- 1 opening porthole
- 1 fixed hull window in Plexiglas white silkscreen printing

4 cabin 4 bathroom version

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- Sliding door and window with aluminum lock for the access to the cockpit, can be locked open or closed
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Aft cabin

- 1 double bed with lateral access (2.05 x 1.60 m / 6'9''x5'3'')
- 2 bed nightstands, one with storage
- 2 under bed drawers
- 1 full-height wardrobe – outboard side
- 1 long shelf
- 1 low cupboard with shelves – inboard side
- 1 opening deck hatch
- 1 opening porthole
- 1 fixed hull window in Plexiglas white silkscreen printing

Aft and forward bathroom

- (Synthetic resin countertop and sink) Composite countertop and sink
- Hot/cold mixer tap
- High-level cupboards with 2 mirrored doors
- Separate shower with Plexiglas door
- Composite shower duckboard
- Large manual toilet
- 1 opening deck hatch

Forward cabin

- 1 double bed with lateral access (2.05m x 1.60m head x 1.10 foot / 6'9''x5'3''x3'7'')
- 1 under bed drawer
- 1 large mirror above headboard
- 1 cupboard with wardrobe (upper part) and shelves (lower part) – inboard side
- 1 storage niche with on central shelf – outboard side
- Bookshelves on 2 levels
- 1 opening deck hatch
- 1 opening porthole
- 1 fixed hull window in Plexiglas white silkscreen printing

STARBOARD HULL

Identical to the port hull

This document is not contractual – September 2018

MARINE SERVICENTER

YACHT SALES & SERVICE SINCE 1977

Seattle Sales & Service
2442 Westlake Ave N
206.323.2405

Bellingham Sales
1801 Roeder Ave #128
360. 770.0180

San Diego Sales & Service
2700 Shelter Island Dr.
619.733.0559

marinesc.com | info@marinesc.com