

# Nautitech 542'

## Technical description



**ACCORDING STANDARD INVENTORY OF 1<sup>st</sup> SEPTEMBER 2012**

*This document is in no way contractual. It provided for information only and may be modified without notice.*

<b>General Specifications:</b>
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Hull length:.....	16.30 m
Waterline length:.....	16.24 m
Beam overall:.....	8.55 m
Draft:.....	1.54 m
Air draft:.....	23.72 m
Mast height:.....	21.80 m
Bridge deck clearance: .....	0.95 m
Headroom: .....	2.00 m
Mainsail area:.....	98 m <sup>2</sup>
Solent area:.....	46 m <sup>2</sup>
Gennaker area:.....	115 m <sup>2</sup>
Spinnaker area:.....	180 m <sup>2</sup>
Standard motorization:.....	2x75 HP
Light Displacement:.....	14.9 t
In charge Displacement:.....	22 t
Water capacity: .....	2x400 litres
Fuel capacity:.....	2x400 litres
Building materials:.....	Polyester/fibre glass composite
EC certification:.....	A 12 people B 12 people C 16 people D 40 people
Structure Homologation:.....	Bureau Veritas
CE Homologation :.....	ICNN
Design:.....	Nautitech/CIM design office
Naval Architect:.....	Marc Lombard
Interior design:.....	Franck Darnet Design

## **Construction:**

The Nautitech 542 are built of composite material using the vacuum resin infusion process. The resins used in the building are of the isophthalic type.

Floats and nacelle: GRP / PVC foam core sandwich 75kg/m<sup>2</sup>. Finish: white gel-coat

Deck: GRP / PVC foam core sandwich 75kg/m<sup>2</sup>. Finish: white gel-coat with diamond tip type nonslip covering.

Bulkheads: composite material using the vacuum resin infusion process. GRP sandwich

Fins: made of monolithic fibreglass, these are foam core and integrated in the floats (independent of the hull structure).

### Beams:

- Forward transverse beam made of aluminium painted white attached to the inner lining.
- Composite compression beam. This beam is integrated to the structure of the hull and deck.

### Remark:

As a replacement for some standard equipment, Nautitech shipyard offers on demand options and technical modifications such as:

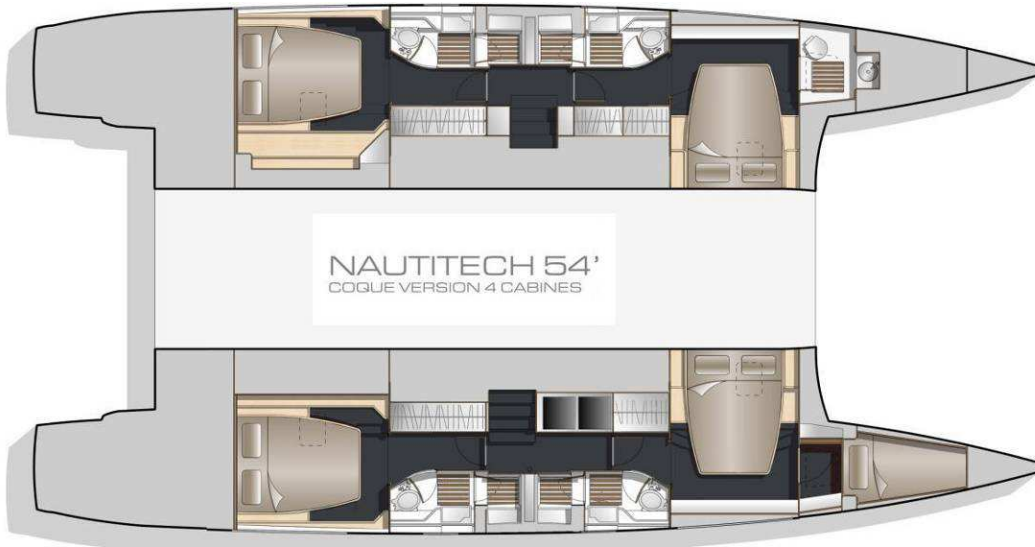
- white gloss mast and beam (exclusive finish)
- carbon mast and beam
- Performance draft (1,70m)

## **Interior Layout:**

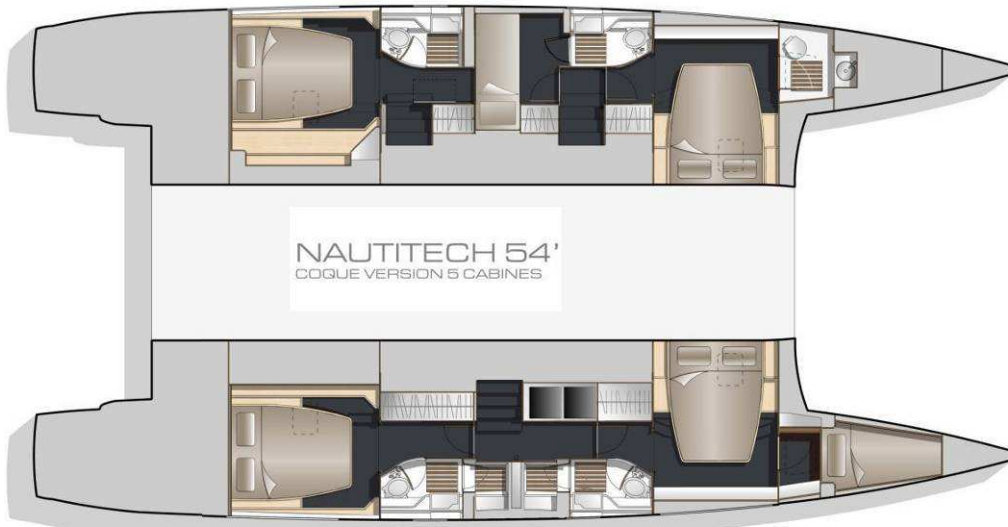
- Interior joinery finish: aniegre wood and sandwich foam
- Laminated wood floor

The Nautitech 542 are available in three version with different layouts:

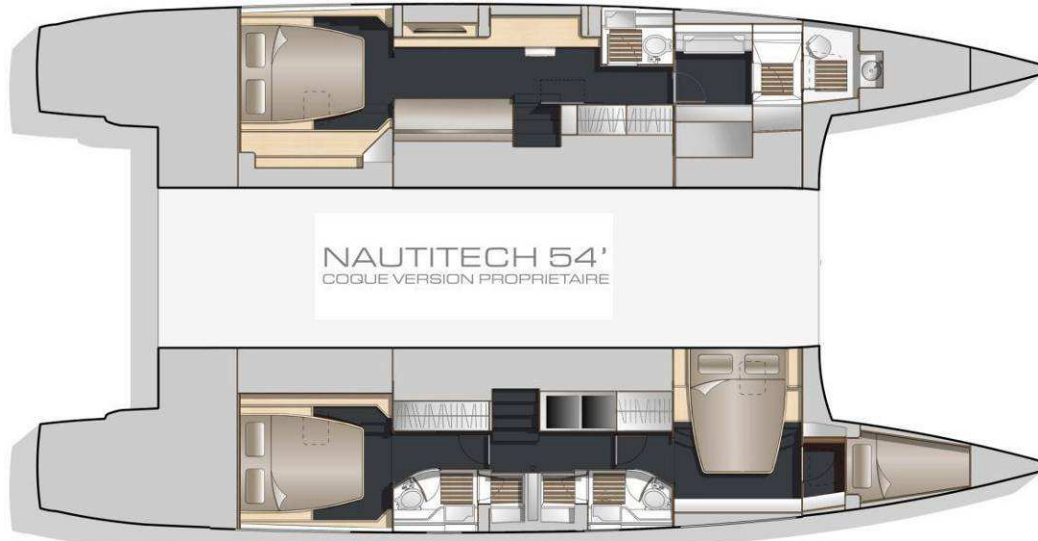
**- 4 cabins**



**- 5 cabins / Availability for 6 cabins on demand**



**- Owner Version (3 cabins)**



**Saloon:**

- The same level floor cockpit/saloon offers a 360° panoramic view
- Counter-moulded deckhead lining with LED spot lights
- Ventilation by 2 opening roof hatches
- Main sliding door in white lacquered aluminium
- Laminated sandwich wood floor.

**Starboard:**

- Fix saloon table (convertible saloon table bed/coffee table on exclusive finish)
- L-shaped seating with removable cushion covers
- Storage space under seating.

• The galley is located in the saloon and is directly connected to the cockpit by a sliding door. It has:

- A three-burner stainless steel stove SMEV with electronic ignition (other on quote)
- Double stainless steel sink with mixer tap
- Stainless steel oven with electronic ignition
- Stainless steel 130 L refrigerator
- White synthetic resin worktop
- Storage cabinets under the worktop as well as top cabinet units
- Trash bin cabinet
- 10 sockets in 220 V
- Prefitted for microwave
- Prefitted for dishwasher
- Prefitted for refrigerator or freezer

**The Nautitech 542 are available in two interior layout: Loft and Classical**

On Port side: 4 cabins or 3 cabins classical layout



FRANCK  
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DESIGN

- At the entrance:
- Chart table with seats for two and storage
  - Lining chart table flat and screen stand
  - Chart reading light
  - 220v socket
  - Led red light for night shift
  - Electric panel
  - Water and fuel gauge
  - Top cabinet units
  - Bookshelf (and prefitted for TV/DVD)
- At the front:
- Bar storage unit

On Portside: 4 cabins or 3 cabins Loft Layout

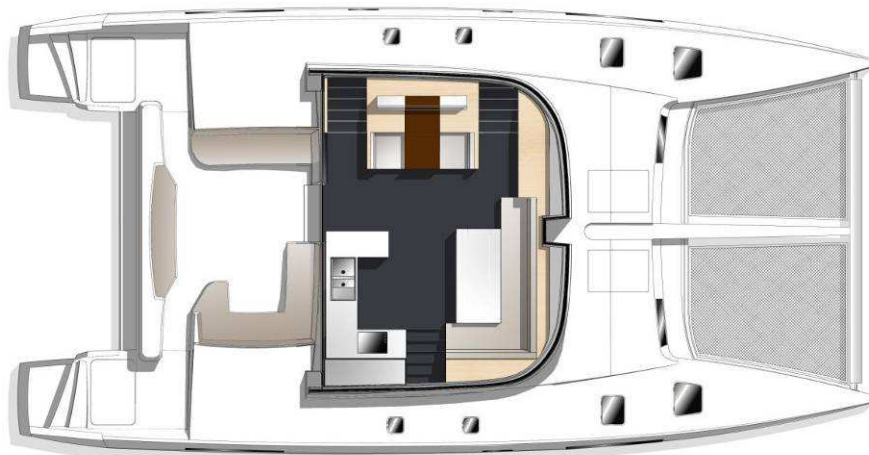


FRANCK  
DARNET  
DESIGN

- At the entrance:
- Sofa with storage
  - Prefitted for slot-in TV/DVD

- At the front:
- Front chart table
  - Lining chart table flat and screen stand
  - Chart reading light
  - 220v socket
  - Led red light for night shift
  - Electric panel
  - Water and fuel gauge

On Portside: 5 cabins classical Layout



- Chart table – 2 seats next to each other
- Lining chart table flat and screen stand
- Chart reading light
- 220v socket
- Led red light for night shift
- Electric panel
- Water and fuel gauge

**Starboard float:** (all versions)**Aft Cabin:** -Headroom +/- 2 m-

- Wood sandwich access door to cabin
- One double bed – 2.00 x 1.55 m – with access to the sides – upholstered bed headboard
- One high density mattress on slatted bed (or spacerflex on option)
- Lining on hull side and ceiling, laminated flooring.
- Storage at the foot of the bed and lateral storage shelf along hull.
- Opening hull porthole with blackout blind
- Fixed glazing with opening with blackout curtain in deck coaming
- LED lighting by ceiling lamp and 2 reading lamps
- Door to access the head
- Wardrobe storage with shelves

**Shower / Heads:**

- Separated shower
- Round teak shower tray grating
- Washbasin cabinet with mixer tap
- Top cabinet unit with mirror
- Shelves
- Manual marine toilet (Electric/and sweet water on option if water maker)
- Lighting by LED ceiling lights
- Towel holders.
- Storage under the washbasin cabinet
- Flush Deck hatch fitted with blackout curtain
- Fixed hull porthole opening with blackout curtain

**Gangway:** -Headroom +/- 2 m-

- Companionway: Steps + risers module on gas jack
- One Freezer
- Storage cupboards – following option for freezer, refrigerator, washing-machine
- Survival hatch under the companionway steps
- Lining on hull side and ceiling, laminated wood flooring.
- Lighting by LED ceiling lights
- Customisable lining gangway panel.

**Fore cabin:** -Headroom +/- 2 m-

- Wood sandwich access door to cabin
- One double bed – 2.00 x 1.55 m – with access to the sides – upholstered bed headboard
- One high density mattress on slatted bed
- Lining on hull side and ceiling, laminated wood flooring.
- One wardrobe with shelves
- Storage on the façade under the bed and lateral storage shelf along hull.
- Opening hull porthole with blackout blind
- Fixed glazing with blackout curtain in deck coaming
- Flush deck hatch fitted with blackout curtain
- LED lighting by ceiling lamp and 2 reading lamps
- Door to access the shower
- Wardrobe storage with shelves

**Shower / Heads:**

- Identical shower cabin to the aft

**Fore peak:** Can be fitted out according to options

**4 cabin version – portside float:****Aft Cabin:** -Headroom +/- 2 m-

- Wood sandwich access door to cabin
- One double bed – 2.00 x 1.55 m – with access to the sides – upholstered bed headboard
- One high density mattress on slatted bed
- Lining on hull side and ceiling, laminated wood flooring.
- Storage at the foot of the bed and lateral storage shelf along hull.
- Shelves/bookshelves along the lining
- Opening hull porthole with blackout blind
- Fixed glazing with opening with blackout curtain in deck coaming
- LED lighting by ceiling lamps and 2 reading lamps

**Gangway:** -Headroom +/- 2 m-

- Companionway: Steps + risers module on gas jack
- Survival hatch under the companionway steps
- Wardrobe storage with shelves
- Door to access the shower

Shower / Heads:

- Separated shower
- Round teak shower tray grating
- Washbasin cabinet with mixer tap
- Top cabinet unit with mirror
- Shelves
- Manual marine toilet (electric on option)
- Lighting by LED ceiling lights
- Towel holders.
- Storage under the washbasin cabinet
- Flush deck hatch fitted with blackout curtain
- Fixed hull porthole with blackout curtain

**Fore cabin:** -Headroom +/- 2 m-

- Wood sandwich access door to cabin
- One double bed – 2.00 x 1.55 m – with access to the sides – upholstered bed headboard
- One high density mattress on slatted bed
- Lining on hull side and ceiling, laminated wood flooring.
- Storage on the façade under the bed and lateral storage shelf along hull.
- Opening hull porthole with blackout blind
- Fixed glazing with opening with blackout curtain in deck coaming
- Flush deck hatch fitted with blackout curtain
- LED lighting by ceiling lamps and 2 reading lamps
- Survival panel under the companionway steps
- Wardrobe storage with shelves
- Door to access the shower

Shower / Heads:

- Identical shower cabin to the aft

**Fore peak:**

- Can be fitted out according to options



**5 cabin vesion - portside float:****Aft Cabin: -Headroom +/- 2 m-**

- One double bed – 2.00 x 1.55 m – with access to the sides – upholstered bed headboard
- One high density mattress on slatted bed
- Lining on hull side and ceiling, laminated flooring
- Storage at the foot of the bed + Shelves/bookshelves along the lining
- Opening hull porthole with blackout blind
- Fixed glazing with opening with blackout curtain in deck coaming
- Flush deck hatch fitted with blackout curtain
- LED lighting by ceiling lamps and 2 reading lamps
- Survival panel under the companionway steps
- Wardrobe storage with shelves
- Access door to the shower module

Shower module including:

- Washbasin, mirror, shower with teak shower tray grating,  
a manual marine toilet (electric on option)

**Central cabin: -Headroom +/- 2 m-**

- Companionway with closing sliding door
- Two single bunk beds
- Lining on hull side and ceiling, laminated wood flooring.
- Wardrobe storage
- Opening hull porthole with blackout blind
- Two flush deck hatches with blackout blind on the top of the bunk beds

Shower module including:

- Washbasin, mirror, shower with teak shower tray grating,  
a manual marine toilet.

**Fore cabin: -Headroom +/- 2 m-**

- Companionway shared with central cabin
- One double bed – 2.00 x 1.55 m – with access to the sides – upholstered bed headboard
- One high density mattress on slatted bed
- Lining on hull side and ceiling, laminated flooring
- Storage at the foot of the bed and lateral storage shelf along hull.
- Opening hull porthole with blackout blind
- Fixed glazing with opening with blackout curtain in deck coaming
- Flush deck hatch fitted with blackout curtain
- LED lighting by ceiling lamps and 2 reading lamps
- Survival hatch under the companionway steps
- Wardrobe storage
- Access door to shower module

Shower module including:

- Washbasin, mirror, shower with teak shower tray grating,  
a manual marine toilet.
- Flush deck hatch with blackout curtain

The fore peak can't be fitted in this float with the 5 cabins version

**Owner version – portside float:****Aft Cabin:** -Headroom +/- 2 m-

- Companionway with closing sliding door
- One double bed – 2.00 x 1.55 m – with access to the sides – upholstered bed headboard
- One high density mattress on slatted bed
- Lining on hull side and ceiling, laminated flooring.
- Storage at the foot of the bed + Shelves/bookshelves along the lining
- Opening hull porthole with blackout blind
- Fixed glazing with opening with blackout curtain in deck coaming
- LED lighting by ceiling lamps and 2 reading lamps
- Survival hatch under the companionway steps
- A desk with folding flap and seat
- Prefitted multimedia area
- Two flush deck hatch fitted with blackout curtain
- Lining on hull side and ceiling, laminated flooring
- Double seat with storage space
- Wardrobe storage with shelves
- 220 V socket
- Separate manual marine toilet (electric in option), with washbasin
- Opening hull porthole with blind

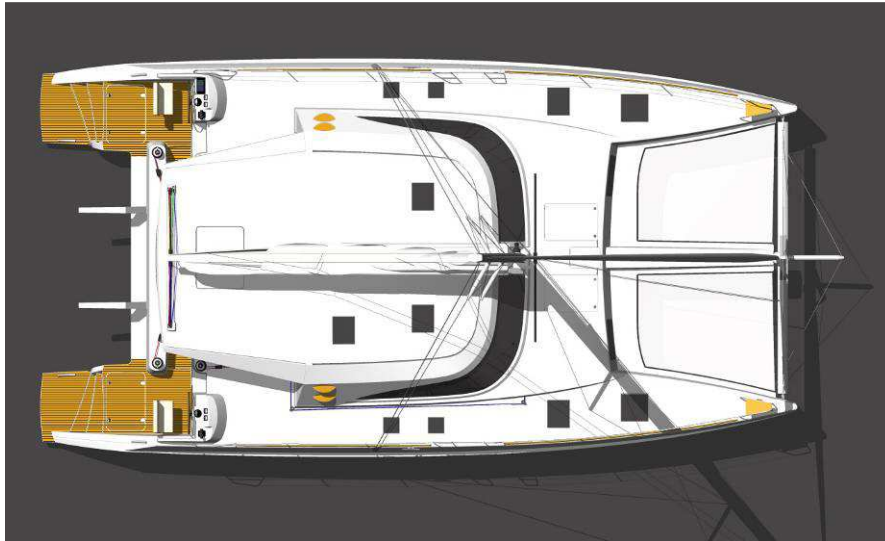
**Shower:**

- Teak shower tray grating
- Double washbasin cabinet with mixer tap
- Flush deck hatch fitted with blackout curtain
- Fixed glazing with opening with blackout curtain in deck coaming
- Cabinets, mirror, towel holders
- Lighting by LED ceiling lights
- Storage cabinets (prefitted for washing machine and tumble-drier)
- 220V sockets

**Fore peak:**

- Can be fitted out according to options

**Deck:**



**Marine hardware:**

- One aluminium 50.2 ST manual two-speed winch on the portside mast (halyards and reef)
- One aluminium 70.2 ST manual two-speed winch in the cockpit to starboard for jib/staysail sheet and spinnaker/gennaker sheet, mainsail halyard
- One aluminium 70.2 ST manual two-speed winch in the cockpit to portside for spinnaker/gennaker sheet; solent furling and spinnaker tack
- Two aluminium 60.2 ST winches on aft beam for mainsail sheet/ traveller controls and davit manoeuvres
- One mainsheet rail with roller traveller on roof.
- One self-tacking jib rail with roller traveller to the fore of the mast
- Main anchoring kit: 34 kg anchor and 60 m of Ø12 mm chain + 40m cable 12/24V – 1700 W electric windlass
- Davit integrated to forward beam
- Jub furling unit on forward beam with guide blocks and cam cleat
- Pair of stainless steel pulpits with teak seat
- Set of stainless steel stanchions (including pair of gate stanchions)
- Bare lifelines
- Teak toe rail
- Teak steps to the roof
- Pair of stainless steel pulpits
- Mooring cleats
- Pair of stainless steel davits on aft beam

**Aft cockpit:**

- Huge cockpit that can be used as a deck saloon, fully covered by a hard cap. Non-slip finish
- U-shaped seating with lockers to starboard, seating 6 people
- Straight seating with lockers to port, seating 4 people
- Straight seating won aft beam, seating 3 people
- Teak table with folding flap and central stowage, seating 10 people (on option)
- Lifteraft locker in the aft beam
- Stainless steel handrail on cap
- LED lighting in cockpit with dimmer

**Fore peak:**

- Seating on fore deck
- Hatch to access to electric windlass 1700 W
- Sails peak and fender locker to portside and starboard
- Nylon trampoline line laced to hull and forward beam.
- Access to fore peaks by deck hatch

**Helm stations 542:**

The helm stations are located on either side of the cockpit

- Mechanical engine control panels with engine hour meters
- Electronic instruments

On each console:

- One helm seat with back
- One leather covered stainless steel steering (carbon on option)
- One steering compass

**Transom bathing areas:**

- Hydraulic lift hatch to access the engine compartment
- Foldaway/inbuilt bathing ladder on starboard
- Stainless steel handrails
- Emergency tiller slot
- Hot/cold deck shower rose (starboard)
- Mooring cleats for the tender
- One 220V shore power socket + fresh water inlet to starboard

**Exterior decoration:**

- Adhesive strips above the waterline (choice of colour)
- Name of boat and port of registry on the spray deck risers
- Nautitech marking on lazy-bag.

## Rigging

### Mast structure:

- 21.80 m anodised aluminium mast
  - Double spreaders (25° swept-back)
  - One pair of intermediate shrouds
  - One pair of lower shrouds
  - Two pairs of lateral diamond shrouds
  - One forestay with jib furling unit
  - Mainsail rail and roller traveller.
  - One pair of lazy-jacks with rope clutches
  - 2 walking foot folding on masthead
- 7.8 m anodised aluminium boom
  - Three reefing lines
  - Handrails

### Sails:

- Sail area upwind: 145m<sup>2</sup>
- Battened mainsail: 98m<sup>2</sup>
- Self-tacking furling jib: 46m<sup>2</sup>
- Nautitech UV protective strip on solent (choice of colour)

### Running rigging:

- One double-purchase mainsail halyard in dyneema
- One jib halyard
- One spinnaker halyard
- One topping lift
- One mainsail sheet + two mainsheet traveller control lines
- One jib sheet
- One jib furling line

## Technical equipment

### Engine compartments:

- Two Yanmar 75HP sail drive engines
- Raccord fuel filters
- Two bronze lifting triple-blade propellers flexofold
- Sound insulation of compartments by foam (lining + soles)
- One neon light per compartment
- Force ventilation: inlet and outlet on inner lining
- One 220V socket per compartment
- One pair of suspended rudders with stainless steel stocks

### Plumbing: (per floats)

- One fresh water tank 400L – total water capacity 800L – The tanks are located on the bottom of the hull under the soles
- One fresh water gauge of level
- One 60L electric water heater (electric power and engine heat recovery)
- Fresh water circuit
- One fresh water drain holes on deck
- Two electric pumps for automatic evacuation of shower wastewater
- One holding tank 106L (one for two toilets (three for the 5 cabins version))
- One fuel tank 400L (total fuel capacity 800L) – The tanks are located on the bottom of the hull under the soles
- Direct water access when connecting on berth

**Drainage:**

The full drainage of the vessel is based on the following equipment for each float:

- 1 electric submersible pump at the low central point
- 1 electric submersible pump in the engine compartment
- 1 outside operated fixed manual pump mounted flush with the cockpit for pumping throughout the float
- Level detections: Level alarm + indicators with readings at the chart table

**Electricity:**

The boat has a 12V electric circuit (24V on request).

- 6 x 150A service gel batteries located behind the mast bulkhead
- Two 110Ah 12 V engine start up batteries free maintenance
- Shore power 100 Ah + 10 sockets
- Bi-polar battery switches on all circuits
- One 12V alternators 80 Ah per engine (series) which charge the engine batteries
- 12V and 220V electric circuits controlled by circuit breakers on the electric panel
- The navigational lights panel, indicators, battery tester at the chart table

Navigation lights:

- One steaming light
- One mooring light on masthead
- One deck light on mast
- Three navigation lights LED.

**The « Franck Darnet Design » Interior Finish & Exclusive Finish includes:**

- Massive Teak cockpit floor and transom steps
- Cockpit cushions with backboard + Two cockpit sun baths\*+6 exterior cushions\* assorted
- Two lights LED (spots) under bridge deck
- Name of the boat on the Lazy bag
- Windlass remote control and counter chain at helm station
- Transom/cockpit blue LED lights
- Saloon upholstery assorted + 6 cushions\*
- Companion ladder hand rails (leather and S/S)
- Electrical opening on roof
- Leather lining on the chart table
- Mosquito net in deck hatches
- Lining on ceiling in cabins and saloon
- Storage hatches in the floor of saloon
- Jib boom stay and spreader leather covered
- Led lights under spreader (4)
- 3 accessories Talon
- Fenders cover (8)
- All cabins and bathroom are equipped with adjustable ventilation grille. Ventilation is natural and forced.
- 2 carbon/galss steering wheels
- Guardrail opening
- Spacerflex mattress in each cabin
- Convertible saloon table in bed/coffee table
- Folding table in massive teak in cockpit
- Back cushions assorted to cockpit cushions between the stanchions
- Choice on ceiling in gangway
- LED RGB with colors
- LED backlight under furniture in saloon
- Saloon lighting and cockpit with dimmer
- Gangway carbon/glass 2,6m
- Helm station cover
- Winches cover
- Cockpit sun awing
- Pack "Hotelier" Geneviève LETHU (detail on demand)
- Pack "Hotelier" Bed and bath CARRE BLANC (detail on demand)
- 

\* Saloon upholstery choice between : Alcantara, microfiber Suede, Leather, Citrus / expect leather for saloon curtains

Cockpit cushions choice between : Diamante, Silvertex, Sunbrella, Stamskin, Batyline

Accessories Talon choice between : cup holder...



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