



## CNB 78 – Standard Specifications

### MAIN CHARACTERISTICS

#### DIMENSIONS

Length overall :	24,85 m with bowsprit
Hull Length :	23,25 m
L.W.L :	22,20 m
Maximum beam :	6,15 m

#### DRAFTS

Standard keel (cast iron fin & lead bulb), 14.000 kg	3,50 m
Optional lead keel (steel fin & lead bulb), 13.000 kg	3,00 m
Optional lead keel (steel fin & lead bulb), 12.100 kg	3,50 m

#### TANKAGE

Fresh water capacity:	1.500 litres
Fuel capacity:	2.500 litres
Grey Water capacity	400 litres
Black Water capacity	400 litres

#### SAILS AREAS (sails not supplied)

	Standard Sail Plan	Performance Sail Plan
I	30,00 m	31,50 m
J	9,06 m	9,06 m
P	29,00 m	31,00 m
E	9,60 m	9,60 m
Mainsail	160 m <sup>2</sup>	175 m <sup>2</sup>
Furling genoa	144 m <sup>2</sup>	152 m <sup>2</sup>
Staysail	79 m <sup>2</sup>	82 m <sup>2</sup>
Asymmetrical spinnaker	470 m <sup>2</sup>	530 m <sup>2</sup>
Air draft (without antennas)	32,0 m	34,0 m

#### DESIGN

Naval architecture	P.BRIAND
Interior design	PIATON BERCAULT & CO

## CONSTRUCTION

- The hull is hand laminated with vinylester resin on all its external layers to have total protection against osmosis, PVC core is glued under vacuum and the inner skin is made in infusion as well as the internal structures and bulkheads. Non structural bulkheads are made of marine grade plywood.
- Carbon fibre reinforcements on keel floors and side chainplates.
- Watertight bulkheads forward and aft fully laminated to hull and deck.
- Deck made of composite/PVC foam sandwich is vacuum infused as well.
- Coachroof structures are reinforced with carbon fibre unidirectionals.
- The entire structure is certified by RINA according to the ISO 12215-5 rule.
- White gel-coat finish on hull, deck and helm seats, antiskid white paint on coachroof.
- Gelcoat finish of the accessible bilges areas;
- Black waterline stripe on hull (optional colours available)
- Main deck, cockpit sole and cockpit seats are laid with 10 mm thick teak.
- The keel, built with a top plate, is fitted to the hull with s/s bolts.
- Twin hanging rudders with vacuum epoxy rudder blades and AISI630 rudder stocks.
- Vectran cable on steering car and traveller.
- Opening transom door/swim platform give access to tender garage.

## DECK HARDWARE

- Fixed carbon bowsprit fixed on the bow with built in anchor system;
- Fixed anchor roller, electrical windlass, 63 kg galvanized anchor, 100 m chain Ø 13 mm.
- S/s pushpits and pulpits.
- LED navigation lights.
- Double s/s lifelines with one opening gate at midship on each side.
- 8 mooring cleats and 2 fairleads
- S/s recessed chainplates.
- Self tacking track for jib or staysail sheet,
- Harken (or similar) genoa sheet tracks and cars.
- Recessed companionway sprayhood.
- Harken turning blocks.
- Jammers.
- 2 x Harken ST80 (or similar) primary winches in cockpit.
- 2 x Harken ST70 (or similar) multipurpose winches in cockpit.
- 1 x Harken ST80 (or similar) mainsail electric winch in cockpit.
- 2 x Harken ST70 (or similar) halyards and reef winches on deck at mast step, the starboard winch being electric.
- 2 x s/s steering wheels with Lorica cover,
- 2 x helmsman seats with console for navigation instruments and compasses. Engine and bow thruster control on STBD side;
- 11 flush deck Solimar hatches on deck;
- 1 x flush deck Solimar hatches on starboard cockpit seat to provide access to the galley
- 1 x flush deck Solimar hatches on port cockpit seat to provide air and light to the aft cabin;
- 2 x accesses to lazarettes in cockpit.
- 1 x access to garage from cockpit.
- 2 x accesses to liferafts lockers from cockpit.
- Teak cockpit table (option to convert it into a sun bath area).
- Space for optional fridge.
- Hot and cold cockpit shower.

## **FOREPEAK**

- The sail locker in the forepeak can accommodate a crew cabin.
- Large deck hatch (with exterior lock) covered with teak (or in PMMA as an option),
- S/s ladder.
- The equipment includes:
  - Lights,
  - Handrails,
  - 2 bars for halyards on the hull topsides.
- Access to:
  - Bow thruster (optional),
  - Chain locker and windlass electrical control box,
  - Hydraulic central station for fwd furlers (option)

## **TENDER GARAGE**

- The tender garage is accessible from the transom when opened and from a deck hatch located in the cockpit.
- The garage can accommodate up to a 3.50 m RIB type tender with outboard engine, or a 3.95 m Williams type jet tender with inflatable bow section;
- The large transom door opens to the sea to provide a swimming platform , a s/s swim ladder with teak steps is integrated in the platform. The platform is operated through hydraulic rams;
- A dedicated system to help the tender in and out of the garage is available as option
- The garage is self-draining with natural ventilation;

## **LAZARETTES**

- The two lazarettes are accessible from cockpit through dedicated hatch
- Electric bilge pump from the central portion of the bilge
- 2 bars can serve as hangers on the hull topsides.
- Access to steering mechanism and optional autopilot.
- Gelcoat finish.
- 2 x 230 V electric outlets, one in each lazarette;

## **SPARS AND RIGGING**

- Silver anodised aluminium mast, 3 sets of spreaders.
- Silver anodised aluminium boom (pre-equipped for automatic reefing system).
- Rod standing rigging.
- Running rigging.
- Hydraulic boom vang and backstays, outhaul cylinder and genoa halyard tensioner (four functions unit in the cockpit).
- Deck lights and mooring light.
- Manual genoa furling system.
- Windex.

## **ENGINE**

- Engine : Volvo Penta D4 - 175hp, @ 2800rpm (optional 230hp, @ 3400 rpm)
- Sound proofed engine compartment (extra density plate).
- AISI630 shaft with thrust bearing and CV joint to improve comfort,

- 3 fixed blades propeller.
- Engine control panel on starboard helm console.
- Fuel tankage: 2500 litres in two stainless steel tanks installed in the middle of the boat.
- Double fuel/water separator

## **WATER**

- 1500 litres fresh water in two stainless steel tanks, installed in the middle of the boat.
- Pressurized hot and cold water system.
- 100 L water heater powered at 220V and heat exchanger from main engine.
- Fresh water shore inlet.
- Manual bilge pump.
- Electrical bilge pumps with the options of automatic function for sail locker and Lazarette
- Grey water are collected into sump boxes and delivered through electric pumps to a main 400 L PET tank on starboard;
- Black water are delivered from the electric toilets to the main 400 L PET holding tank on port;
- Valves for emptying the tanks are easily accessible;

## **ELECTRICAL**

- Electrical panel 12V / 24V / 230V. Control panel in the aft area (galley).
- 63 A Shore connection with 25 m cable.
- 17.5 kW, 230 V generator with sound shield.
- 2x 24V/100 A battery charger for service batteries.
- 12V primary alternator on main engine.
- 24V secondary alternator on main engine, 115 A.
- 24V service gel batteries bank , 840 Ah capacity C20.
- 24V / 230 V / 5000 W inverter.
- 2 Main engine and 1 generator starting batteries. 12V-75Ah
- 24V LED lighting throughout.
- 230V electric outlets.

## **ACCOMMODATIONS**

- Wood finishes : Natural oak and lacquered areas, Optional choice among 2 other ambiances.
- Wide doors.
- Blinds on portholes.
- Blinds and mosquito screens on deck hatches.

## **COMPANIONWAY**

- Access to the saloon is through a transverse transparent sliding hatch.
- Companionway wooden steps with recessed lighting.
- Handrails.

## **ENGINE ROOM**

- Underneath the saloon floor, the engine room is located at the most favourable place for the boat's balance.
- Access through a dedicated hatch under the galley entrance steps and through a central hatch in the saloon floor;
- Sound insulated engine compartment.

- Automatic and remote controlled fire extinguisher.
- 2 Light appliances.
- 1 x 230 V outlet.
- This compartment receives the main Volvo diesel engine, the Onan generator in its soundproof cocoon, the Air Conditioning system (option), the Water-maker (option), the water heater, pumps and filters.

## **SALOON**

- Just under the deckhouse, the saloon hosts a lounge space and a dining/saloon area.
- Very clear, the saloon enjoys a remarkable panoramic view to the outside.
- Direct and indirect lighting are ensured via overhead and reading lights.
- Night courtesy lights;
- 4 x 230 V and 2 x USB outlets.
- Several lockers alongside the hull and behind the seat backs.
- Space for audio system.

### Lounge space (starboard)

- Relaxing sofa to starboard.
- Working desk with chair facing backwards

### Dining area (portside)

- Large U shaped settee to port.
- Fixed dining table for 8 guests.
- Optional TV on swinging bracket.

## **GALLEY**

The galley is positioned in the aft starboard portion of the boat, five steps underneath the saloon area and ensures a better privacy to the guests in the saloon and in the fore cabins. The galley is equipped with high-quality yacht outfit:

- Access to the cockpit via an opening hatch.
- Ventilation and natural light via cockpit hatch and portholes.
- Range hood.
- Direct and indirect lighting above worktops.
- Functional U shaped organization, with a bar worktop and two stools.

The galley area includes, on centerline a chart table:

- Electrical distribution switchboard.
- Chart table with chart and pencil storage.
- 1 x 230 V and 2 x USB outlets.
- Space for instruments displays, bookshelf.

The galley includes as well:

- Foldable ladder to exit to the cockpit;
- Low and high stowage lockers,
- Corian © worktop,
- S/s double sink with single lever mixer tap,
- Trash bin under the sink,

- Miele gimballed 4 burners electric stove and oven powered by the inverter within the limits of its power, switchable to shore power or generator;
- Microwave oven powered through the inverter,
- 140 L capacity front opening Miele freezer (aft of galley),
- 230 L capacity front opening Miele fridge with 57 L capacity freezer compartment (front of galley)
- 2 x 230V outlets,
- Fastening belt for cooking when the boat is heeling,
- Space for Miele dishwasher (optional),
- Space for Miele washer-dryer, 5kgs capacity (optional),
- Space for trash compactor and sink macerator (optional),
- Space for wine cooler ( optional),
- Space for additional fridge or freezer (optional).

### **OWNER'S CABIN**

- The owner's cabin is positioned in the forward section of the yacht and runs across at full width.
- Light and ventilation via 2 fixed hull portholes and 3 opening deck hatches.
- General lighting and reading lights.
- Double berth, 2.00m x 1.60m.
- Drawers and lockers underneath.
- Bookshelves and lockers on the aft bulkhead, with recess for Tv.
- Hanging locker to starboard.
- Locker to port.
- Lower lockers to port and starboard.
- Working desk to starboard.
- 2 x 230V and 2 USB outlets.

### **OWNER'S TOILET**

The owner's cabin has a fully private en-suite toilet and shower:

- Separate shower stall with PET grating,
- One opening deck hatch for light and ventilation,
- Overhead light, and second light close to mirror,
- Automatic waste water pump out to grey water holding tank,
- Planus © (or similar) fresh water electric marine toilet,
- Washbasin with hot and cold water,
- Bathroom cabinet with electric shaver plug,
- Mirror, heating towel holder, toilet roll holder.

### **PORT GUEST CABIN**

- Double lateral bed to port, 2.00m x 1.60m, convertible to two single berths.
- Drawers and lockers underneath.
- Light and ventilation via fixed hull porthole and opening deck hatch.
- General lighting and reading lights.
- Hanging locker on portside.
- Lockers.
- 2 x 230 V and 2 USB outlets.

### **PORT GUEST TOILET**

The port guest cabin has a private en suite toilet and shower:

- Separate shower stall with PET grating,
- Opening deck hatch for light and ventilation,
- Overhead light, and second light close to mirror,
- Automatic waste water pump out to grey water holding tank,
- Planus © (or similar) fresh water electric marine toilet,
- Washbasin with hot and cold water,
- Bathroom cabinet with electric shaver plug,
- Mirror, toilet roll holder.

### **STARBOARD GUEST CABIN**

- Double bed, 2.00m x 1.60m.
- Drawers and lockers underneath.
- Light and ventilation via fixed hull porthole and opening deck hatch.
- General lighting and reading lights.
- Hanging locker to starboard.
- Lockers.
- 2 x 230 V and 2 x USB outlets.

### **STARBOARD GUEST TOILET**

The starboard guest cabin has a private en suite toilet & shower:

- Shower stall with PET grating,
- Opening deck hatch for light and ventilation,
- Overhead light, and second light close to mirror,
- Automatic waste water pump out to grey water holding tank,
- Planus © (or similar) fresh water electric marine toilet,
- Washbasin with hot and cold water,
- Bathroom cabinet with electric shaver plug,
- Mirror, toilet roll holder.

### **AFT PORT GUEST CABIN**

- 2x single beds, 2.00m long. Convertible into a double bed as an option,
- One bunk bed on the topsides available as option
- Light and ventilation via fixed hull porthole, opening portholes and opening hatch to cockpit.
- General lighting and reading lights.
- Drawers and lockers underneath.
- Hanging locker on portside.
- Lockers alongside.
- 2 x 230 V and 2 x USB outlets.

### **AFT PORT GUEST TOILET**

The aft port cabin has a private en suite toilet & shower:

- Separate shower stall with PET grating,
- Mechanical ventilation,

- Overhead light, and 2nd light close to mirror,
- Automatic waste water pump out to grey water holding tank,
- Planus © (or similar) fresh water electric marine toilet,
- Washbasin with hot and cold water,
- Bathroom cabinet with electric shaver plug,
- Mirror, toilet roll holder.