

SILENT-YACHTS

TECHNICAL SPECIFICATIONS SILENT 44



SILENT-YACHTS

1 GENERAL SPECIFICATIONS	3
CONSTRUCTION	3
2 MAIN TECHNICAL CHARACTERISTICS	3
DIMENSIONS AND CAPACITIES	3
PROPULSION – ENGINE AND GEARS	4
STEERING EQUIPMENT	4
ENERGY PRODUCTION AND STORAGE	4
PLUMBING	5
ELECTRICITY	5
3 EXTERNAL LAYOUT AND DECK	5
TRANSOMS	5
ENGINE- / TECHNICAL COMPARTMENTS	6
FOREDECK	6
FLYBRIDGE	6
DECK FITTINGS	6
EXTERIOR DECORATION	6
US SPECIFICATIONS / AUD SPECIFICATIONS	6
4 INTERIOR DECORATION AND FITTINGS	7
LAYOUT VERSIONS	7
GENERAL INTERIOR	7
SALON	8
GENERAL CABINS	9
BATHROOMS	9

SILENT-YACHTS

1 General Specifications

Construction

- a) Light weight glass sandwich composite construction, carbon reinforced
- b) Resin infusion and vacuum bagging for strong and lightweight structure
- c) High quality and osmosis free Epoxy resin with high interlaminar shear strength
- d) Sophisticated highly torsion resistant hull and bulkhead structure
- e) Watertight bulkheads, sealed floor-sections and collision-compartments for ultimate safety
- f) Foam sandwich structure of boat acts as thermal and sound insulation
- g) Interior furniture acts as reinforcing light weight structure
- h) Complete boat in gelcoat laminate surface or gloss polyurethane painted finish
- i) Built as standard in accordance with CE regulations. USCG on request.

2 Main Technical Characteristics

Dimensions and Capacities

Technical concept and Layout concept	Grand Hudson	SILENT-YACHTS Australia
	Mag. Michael Köhler	SILENT-YACHTS
Yacht design & Engineering	East Cape Marine GmbH	
Length overall	13,40 m	44 ft
Length of waterline	13.00 m	42,7 ft
Beam overall	7,20 m	23,6 ft
Draft	0,750 m	2,5 ft
Slenderness ratio (Lwl/Bwl)	8,6	
Light displacement *)	11 tons	
Water *)	250L	
Fresh Water	2x 250L = 500L	
Waste-water *)	1x 250L	
Fuel *)	1x 250L	
Standard engines	2x 30 kW (e-motors)	
CE Certification	A: 12; B: 12; C: 16; D: 20	

SILENT-YACHTS

Propulsion – Engine and Gears

- a) 2x 30 kW high efficiency motors
- b) Cruising speed 6-8 kts, top speed approx. 12 knots
- c) High-efficiency propellers on turnable saildrives – commercial version
- d) Engine controls and control panels at inside and outside helm
- e) Access to engine- / technical-compartments via c and /or via stern entrance
- f) Engine-compartments ventilation: natural aeration and forced extraction
- g) Generator-, engine- and technical compartments sound protected
- h) LED-light in each technical compartment
- i) 1 x 250 L fuel tank, with option for (2 x 250 L = 500L fuel tanks for range extender)
- j) Equipment includes:
 - Filtration: pre-filter, water-separator and filter
 - Fuel cut-out remote control
 - Fuel filler, aeration
 - Electric reading gauges on chart table

Steering Equipment

- a) 2x Rudder blades with stainless steel rudder shaft (except with turnable saildrives)
- b) Epoxy tube for rudder bearings
- c) Self-aligning upper and lower bearings
- d) Hydraulic steering system (except with turnable saildrives)

Energy Production and Storage

- a) 24 high-efficiency solar-panels with ~9.5 kWp in total for propulsion and household
- b) MPPT solar charge regulators
- c) Range-Extender 33 kW @ 48 V
- d) Lithium Batteries 48 V, 33 kWh
- e) 22.5 V service batteries with 50 A charger

SILENT-YACHTS

- f) Charger 60 A for 25.2V Batteries
- g) Inverter 5 kVA - sufficient for all standard household appliances
- h) Charge-, consumption- and capacity controls for all electric circuits

Plumbing

- a) All hoses and pipes are marine grade
- b) Fresh water: - 2 x 250 L = 500L fresh water tank (2 x 400L = 800L as option)
- c) Fresh water circuit including pressure pumps - electric boilers for all showers / sinks - 1 hand shower on stern platform (H/C)
- d) Waste water: 2 x waste water tank 1 x 250L with electric macerator pump. Option 2 x 250L = 500L waste water tank.
- e) Drainage circuit:
Self-draining cockpit as per CE standards - Automatically activated electric bilge pump in each watertight compartment

Electricity

- a) Fuses and interrupters for 12, 24 and 48 V DC and 230 V AC (US Version 110 V) (AUD Version 240 V)
- b) All wiring with tin-coated copper cables of marine grade
- c) All cables labelled and numbered and mounted on rails
- d) All lights high quality LED
- e) Main switchboard for battery level, fuel-, water- and blackwater-levels, navigation lights
- f) Shore-power connection with fuse

3 External Layout and Deck

Transoms

- a) Shower (H/C) in starboard transom
- b) Inox handrails
- c) 1 swimming ladder at transom step
- d) L-bench at the salon-wall with cockpit table for 6 persons
- e) All voids are accessible for ropes, fenders, cushions etc.
- f) Stairs to flybridge

SILENT-YACHTS

Engine- / Technical Compartments

- a) Access through liftable stairways
- b) Sufficient space for generator and all other technical components
- c) Space for a motorbike, watertoys etc. (only on "cruiser"-version)
- d) Sound-protected, LED-light, 230 V (AUD 240 V) socket

Foredeck

- a) 2 deck-hatches for access to forward storage-compartments
- b) 1.200 W electric windlass (8 mm chain)
- c) Composite longitudinal compression-beam, comfortable trampolines made of UV-resistant heavy duty mesh
- d) Backrests on the trampoline

Flybridge

- a) Central helm console for engine controls and navigation equipment
- b) Moulded U-shaped sofa with table
- c) Sun-beds with flipable backrests
- d) Fixed solar-roof (optionally retractable)

Deck fittings

- a) 8 mooring cleats total (2 x swim deck, 2 x stern, 2 x mid-ship, 1 x bow on each hull)
- b) 2 pad-eyes to attach the lifelines
- c) Inox stanchions with inox handrail
- d) Pulpit in stainless steel, bow seats with teak

Exterior decoration

- a) Silent-Yachts logo on sides of coach roof, Model name on each hull

US Specifications / AUD Specifications

For boats sold in USA only

- b) 110 V electrical panel, 110 V sockets (AUD 240 V sockets)

SILENT-YACHTS

4 Interior Decoration and Fittings

Layout Versions

- a) **VERSION 3/2:** 1 VIP-Master cabin in the front Starboard with full length ensuite includes twin vanities in hull with office desk, port-side 1 guest-cabin with two single bunks shared ensuite, port-side 1 guest-cabin with double bed shared ensuite, (= 3 cabins one with double bunk, 2 bathrooms) Sleeps 6

Other optional variations:

- b) **VERSION 4/2:** port-side 1 double-bed cabin with shared ensuite bathroom, starboard 1 double bed cabins with shared ensuite bathroom, 2 cabins in front hull, port side with shared ensuite, starboard side shared ensuite (= 4 cabins, 2 bathrooms) Sleeps 8
- c) **VERSION 4/3:** starboard 1 VIP-Master cabin in the front with en-suite, port-side 1 double-bunk cabin each with shared ensuite bathroom, starboard 1 double bed cabin with en-suite bathroom, port-side 1 double-bed cabin with shared en-suite bathroom, (= 4 cabins one with double bunk, 3 bathrooms) Sleeps 8

All bathrooms incl. sink, electric toilet and separate shower.
All cabins either with double bed or two single beds.
Other versions on request.

General Interior

- a) Headroom in the cabins, bathrooms and corridors 2.04 m
b) Headroom in the front-cabin 2,00 m, front-cabin bathrooms /walk-in-closet 2,04 m
c) Headroom in the saloon / kitchen: 2.09 m
d) Large portlights in all cabins
e) Natural aeration and forced aspiration-system in all cabins / bathrooms
f) Interior furniture built in light weight materials covered with real wood veneers
g) Thermal insulation for excellent room climate

SILENT-YACHTS

- h) All walls lacquered or covered with wood, vinyl leather or Alcantara optic materials
- i) Standard interior with mix of modern maple, teak, white wine or other veneers with white lacquered surfaces and colored floors
- j) Other Interior veneers like Wengé, Palisander, Oak, Mahogany, Aniegre and Décor Materials are also standard. Special veneers and leathers on request
- k) Hand rails in inox, optionally covered with leather
- l) All cabin- and bathroom doors in light weight material, high quality, soft closure
- m) Door-locks with high quality "anti-rattle" mechanism, all drawers soft closure
- n) Port lights and deck hatches in "flush deck" design and CE approved
- o) All steps with anti skid surface, LED courtesy-lights

Salon

- a) Vast panoramic saloon inside of $\sim 25 \text{ m}^2$ - headroom: 2 m
- b) Sliding saloon door and sliding window- opens at full salon-width
- c) Sliding window on the stb. side
- d) Sliding door and sliding windows transform the closed salon into an open cockpit-area
- e) LED lights

Inside Helms-Position and Chart Table:

- a) Helm-position with steering, engine-controls and -displays, compass
- b) Large instrument console for electronic equipment
- c) 2 x 230 V (US 110 V) socket, 2 x 12 V sockets
- d) Helms-seat for two persons ($\sim 120 \text{ cm}$ wide)
- e) 360° view from the helms-position
- f) Vast storage underneath with long drawers

Salon Lounge Area:

- a) "L" shaped sofa with comfortable cushions, could serve as bed
- b) Dining table for 6 persons

SILENT-YACHTS

Pantry:

- a) "U" shaped kitchen with acrylic stone worktop
- b) Sink in stainless steel
- c) 230 V (US 110 V) (AUD 240 V) sockets on the worktop
- d) Induction cook-top (4 plates)
- e) Fridge or side-by-side fridge/ freezer (depending on version)

General Cabins

- a) 1 large double bed or 2 single beds bunks.
- b) Maritime mattresses in PU-foam with varied densities for greater comfort and restful sleep (140 mm thick), anti-mite, anti-fungus, antibacterial, hypoallergenic
- c) Storage under the bed, accessible from the side or from the top
- d) Hanging lockers and lockers with shelves, storage boards (depending on version)
- e) 2 x 230 V (US 110 V) (AUD 240 V) sockets, 12 V and USB socket
- f) LED-ceiling-lights and reading lights back side of the bed

Front VIP-Cabin - Additionally to the above-mentioned features

- a) Full-width cabin > 1980mm wide
- b) 2 large double bed 1500mm x 1980mm with side access.
- c) Vast storage area on the bridgedeck alongside the bulkhead
- d) Bathroom on port-side with large vanity-table, large shower and 230 V plugs (AUD 240 V)
- e) Walk-in locker on starboard with extensive hanging lockers, desk, large mirror and lockers with shelves

Bathrooms

- a) En-Suite Bathroom in "Version 3 VIP", "Version 3/2"
- b) Sink / basin with mixer tap (H/C)
- c) Locker under / above the sink / basin and other locker for various items
- d) Upper cabinet with mirror
- e) Non-skid flooring
- f) Accessories like towel holder, soap-dispenser, paper-holder

SILENT-YACHTS

- g) Electric toilet
- h) Separate shower (H/C) with acryl door in each bathroom
- i) Storage-shelf and seat in shower
- j) (230 V EURO) (AUD 240 V) (US 110 V) socket
- k) LED spotlights

Master Bathroom (in the 3 VIP-Cabins version)
Additionally to the above mentioned features:

- a) Generous bathroom
- b) Large "king-size" shower
- c) Large sink / basin
- d) Additional mirror and lockers

This document is non contractual. We reserve the right to modify specifications or components according to class and flag state rules.