

# SILENT-YACHTS

## SILENT 75

### Basic Specifications

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## CONSTRUCTION

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- Ultra light weight glass/carbon sandwich composite construction
- Resin infusion and Vacuum bagging for strong and lightweight structure
- High quality and osmosis free vinylester resin
- Sophisticated highly torsion resistant hull and bulkhead structure, vacuum infused
- Watertight bulkheads in several sections and collision-compartments for ultimate safety
- Reinforced stub keel
- Foam sandwich structure of boat acts as thermal and sound insulation
- Additional thermal insulation at hull outer surfaces
- Gelcoat colour acc. RAL for all glassfiber reinforces plastic parts

# SILENT-YACHTS

- Built in accordance with CE regulations. USCG on request.

## PROPULSION - ENGINE AND GEARS

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- 2 x 135 kW (80 kW continuous) high efficient synchronous motors
- cruising speed 8-10 kts, top speed 12 kts
- High-efficiency propellers on shaft lines
- Engine controls and control panels at inside main deck helm and at flybridge
- Access to engine- / technical-compartments at cockpit and /or at stern entrance
- Engine-compartments ventilation by natural aeration and forced extraction
- Generator-, engine- and technical compartments sound isolated
- LED-light in each technical compartment
- 3 diesel tanks – total 3,200 L: 2.,200 L fuel tank in hulls + 1,000 L day tank
- Equipment includes:
  - Filtration: pre-filter, water-separator and filter
  - Fuel cut-out remote control
  - Fuel filler, aeration
  - Electric reading gauges at main switchboard

## STEERING EQUIPMENT

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- 2 laminated rudder blades with stainless steel rudder shaft and bearing
- Extra reinforced rudder basement
- Self-aligning upper and lower bearings
- Hydraulic steering system
- Emergency tiller and bypass vent

## ENERGY PRODUCTION AND STORAGE

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- 56 high-efficient solar-panels in total for propulsion and household, total approx. 92 m<sup>2</sup>
- MPPT solar charge regulators
- Range-Extender 100 kW (continuous 80 kW) to recharge the batteries if necessary
- High Voltage DC Battery for main storage capacity of 200 kWh
- 24 V service batteries
- Charger 80 A
- Inverter 30 kVA - sufficient for all household appliances
- Charge-, consumption- and capacity controls for all electric circuits

## PLUMBING

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- All hoses and pipes are marine grade
- Fresh water:
  - 1,000 L fresh water tank (other sizes as option)
  - Fresh water circuit including 2 water pumps (for redundancy)
  - Decentral water heaters at each service facility
  - 2 stern showers (hot/cold)
  - Fresh water filter at filler
- Waste water:
  - 2 x 475 L waste water tank
- Drainage circuits:
  - Self-draining cockpit as per CE standards
  - Automatically activated electric bilge pump in each watertight compartment with indication at main switchboard
- All pumping systems according CE regulations

## ELECTRICITY

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- Fuses and interrupters for 12, 24 and 48 V DC and 23 V AC (US Version 115 V)
- All wiring with tin-coated marine-grade copper cables
- All cables labelled and mounted on rails
- All lights high quality LED
- Main Switchboard with Monitoring touch screen-controls for lights, battery level, fuel-, water- and blackwater-levels, navigation lights
- Shore-power connection with fuse
- Windscreen wipers with washing system

## INTERIOR

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### ***Layout Versions***

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- Variable layout versions upon owner's request
- Up to 5 cabins plus spacious crew compartment
- Office and storage / multi-purpose cabins possible

# SILENT-YACHTS

## **General Interior**

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- Headroom in the cabins, bathrooms and corridors 2.10 m
- Headroom in the front-cabin 2,10 m, front-cabin bathrooms /walk-in-closet 2,05 m
- Headroom in the saloon / kitchen: 2.10 m
- Large port lights in all cabins
- Deck-hatches in all cabins integrated 'flush deck'
- Deck-hatches in front-cabins "flush deck" design - shaded by roof
- Natural aeration and forced aspiration-system in all cabins / bathrooms
- Interior furniture built in light weight materials
- All walls lacquered or covered with wood, vinyl leather or Alcantara materials
- Standard Interior with mix of modern veneer with white lacquered surfaces and wooden floors. Décor wall panels in vinyl leather or fabric. Stainless steel applications inside
- Other Interior veneers such as Wengé, Palisander, Oak, Mahogany, Aniegre and matching Décor Materials and leathers on request
- Hand rails in s/s, covered with leather
- All cabin- and bathroom doors in light weight material, high quality, soft closure
- LED spotlights and LED indirect lights

## **Saloon**

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- Vast panoramic saloon of maximum 54 m<sup>2</sup> of living area
- Window area in standing and lower eye level for all round vision
- Full beam saloon door – opens at full saloon-width , several versions applicable acc. Owners request
- One sliding windows each side
- LED spotlights and LED indirect lights

### **Inside Helms-Position and Chart Table**

Located in the front starboard of the saloon, facing forward

- Helm-position with steering, engine-controls and -displays, compass
- Large instrument console for electronic equipment
- 2 x 230 V (US 115 V) socket, 2 x 12 V sockets
- 360° view from helm

### **Saloon Lounge Area**

- Variable layout acc. Owners design request
- Ergonomically styled sofa with comfortable cushions acc. Owners layout
- Dining table for 10 persons

### **Pantry**

Located on port-side, other setups upon request

# SILENT-YACHTS

- “U” shaped kitchen with acrylic solid worktop
- Central bar with storage underneath
- Sink in acrylic stone optic
- 230 V (US 115 V) sockets on the worktop
- Miele Marine preferred, other brands on request
- Induction cook-top (4 plates)
- Electric dishwasher
- Electric Oven
- Stainless steel air-extractor
- Flap with access to waste bin or storage-locker
- household fridge with deep freezer, ice-machine
- Several storage solutions throughout the pantry and saloon area

## **General Cabins**

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- Natural aeration and forced aspiration-system in all cabins / bathrooms
- Large portlights and flush deck-hatches CE approved
- 1 large double bed or 2 single beds with slatted base
- Maritime mattresses in PU-foam with varied densities for greater comfort and restful sleep (140 mm thick), anti-mite, anti-fungus, antibacterial, hypoallergenic
- Storage under the bed by drawers
- Several hanging lockers and lockers with shelves, storage boards
- 2 x 230 V (US 115 V) sockets and USB socket
- LED-ceiling-lights and reading lights back side of the bed

## **Owner’s Cabin (front)**

Additionally to the above mentioned features:

- Full-width cabin > 8 m wide
- 1 large double bed 210 x 180 with side access
- Vast storage area on the bridge deck alongside the bulkhead
- Bathroom in hull with large vanity-table, large shower and 230 V plugs
- Walk-in locker with extensive hanging lockers, desk, large mirror and lockers with shelves

## **Bathrooms**

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- Dayhead with sink
- All bathrooms accessed en-suite
- Sink / basin with mixer tap (H/C)
- Locker under the sink / basin and other locker for various items
- Upper cabinet with mirror
- Non-skid flooring in shower
- Accessories such as towel holder, soap-dispenser, paper-holder
- Electric/vacuum toilet
- Separated shower (H/C) with acryl door in each Bathroom
- Shelf and seat in shower
- 230 V (US 115 V) sockets
- LED spotlights and indirect lights

# SILENT-YACHTS

## **Deck**

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### **Transoms**

- s/s handrails
- 2 swimming ladders at transom – one emergency, one un
- 230 V (US 115 V) power outlet and shore-power-input
- Courtesy- / emergency-lights

### **Stern - Cockpit**

- Large cockpit usable as deck saloon, protected by the roof
- Aft entrance to cabin / crew quarter or aft storage by companion way port side
- Large central seating with storage underneath
- Lounge seat and L-shaped sofa
- Fixed cockpit table for 6-10 persons
- Inmolded stern access doors to storage and/or tender bay (max. length 4,60 m)
- Inmolded side doors with integrated steps and s/s handrail
- All voids are accessible for ropes, fenders, cushions etc.
- Stairs to flybridge, aft roof carbon fiber stanchions
- Outdoor pantry and bar with electric grill, sink, acrylic worktop
- LED daylights, point lights and courtesy lights

### **Engine- / Technical Compartment**

- Access through liftable staircase hatch sternwards
- Sufficient space for generator and all other technical components
- Space for a motorcycle, personal watercraft, bicycles etc.
- Dryable by AC
- LED-light, 230 V sockets

### **Fore and side deckdeck**

- 3 major deck-hatches for access to forward storage-compartments and anchor locker
- Sunbed each side of superstructure
- Panoramic glass roof at foredeck
- U-shaped convertible sofa / sunbed with lowerable table
- Salon entrance door at starboard side
- Composite longitudinal compression-beam, comfortable trampolines made of UV-resistant heavy duty mesh

### **Flybridge**

- Central lowerable helm station with engine control and navigation equipment
- Sofas with weathertight lockers and sun-beds
- Liftable hardtop with solar panels
- Sunbed area with sliding cover

# SILENT-YACHTS

## Deck fittings

- 12 mooring cleats total (1 x platform, 1 x stern, 2 x mid-ship, 2 x bow on each hull)
- 2 pad-eyes to attach the lifelines
- 950 mm s/s stanchions with s/s handrail
- Pulpit in stainless steel

## Exterior decoration

- Brand logo on sides of coach roof
- Model name on each hull

## US SPECIFICATION

For boats sold in USA only

- 115 V electrical panel and 115 V sockets

## Dimensions

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Concept	Michael Köhler / Silent Yachts
Design and Naval Architecture	iYacht / Germany
Interior Design	iYacht / Germany
Length overall	22.79 m
Length waterline	22.48 m
Beam overall	10.70 m
Draft	1.25 m
Slenderness ratio ( $L_{WL}/B_{WL}$ )	9.4
Light displacement *)	48 tons
Water	1,000 L
Waste-water	950 L
Fuel	3,200 L
Standard motors (electric)	2 x 80 kW (peak 2 x 135 kW)
Battery capacity	200 kWh
CE Certification	A: 14; B: 18; C: 24; D: 40
Cruising speed (2 x 80 kWe)	8-10 kts
Cruising speed (2 x 135 kWe)	12 kts

Please refer to price list for further options and prices or request your individual offer.

\*) Light displacement and performance predictions subject to change due to specification of vessel.

This document is non contractual and we reserve the right to modify specifications or components according to CE and/or flag state rules. Numbers are subject to change without prior notice. Tolerances according EN SIO 8666 for published data. All numbers are preliminary.

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