

SIRENA  YACHTS

48 / 58 / 58 / 68 / 78 / 88
COUPE RPH

STANDARD SPECIFICATION

EUROPE VERSION

DIMENSIONS AND MAIN CHARACTERISTICS

Length Overall L_{OA} (Incl. swim platform anchor roller)	16,04 m / 52'7 ¹ / ₂ "
Hull Length L_H ISO 8666 (Net GRP - Swim platform excluded)	13,79 m / 45'3"
Waterline Length L_{WL} ISO 8666 (Full load conditions)	13,76 m / 45'2"
Hull Beam B ISO 8666 (@ Mid-ship section)	5 m / 16'5"
Max Draft - T ISO 8666	1,05 m / 3'5"
Loaded-Displacement Mass - ISO 8666	27,24 tonnes / 60053 lbs (with Cummins QSB 6.7) 28,76 tonnes / 63404 lbs (with VOLVO D11)
Light Craft Condition Mass - $m_{LCC ISO 8666}$ (= Dry displacement, no crew, no luggage)	23,42 tonnes / 45145 lbs (with 2 x Cummins QSB 6.7) 24,9 tonnes / 54983 lbs (with 2 x VOLVO D11) - optional
Diesel Tank Capacity	1900 lt / 502 gal
Fresh Water Tank	600 lt / 159 gal
Black Water Tank Capacity	300 lt / 79 gal
Gray Water Tank Capacity	240 lt / 63 gal
Cabins	3 standard + 1 (optional crew cabin)
Beds	6 + (1 crew)
Heads	2 + 1 (crew head)
Building Material	GRP
Hull Type	Semi-Displacement
Exterior Styling & Concept	Sirena Marine
Interior Decor	Sirena Marine
Hull Design	German Frers
Engines	Cummins QSB 6.7 550 HP x 2 VOLVO D11 670 HP x 2 - optional
Marine Gears	ZF 280 IV (Cummins QSB 6.7) ZF 325 IV (VOLVO D11) - optional
Reduction Ratio	2.0:1 - ZF 280 IV 2.037:1 - ZF 325 IV - optional
Transmission	V Drive
Propeller Diameter (Max)	700 mm / 2'355"
Max Speed*	24 knots 27 knots (with VOLVO D11 670 HP x 2 - optional)
Cruising Speed	16 knots
Economy Cruising Speed	10 knots
Range 10 kn (Incl. 10% reservoir)*	477 NM
Certification	CE Category B

*NOTE: All performance specified in the table above are design data and applies to a standard configuration boat (standard equipment installed as per this standard list) with clean keel, propellers, and rudders. Furthermore, the performance levels indicated above have been defined under good sea and wind conditions (Beaufort Scale level 1, Douglas Scale level 1, ambient T < 25°C, seawater T=15°C, atmospheric P=103250 Pa) with 2 people on board, 25% fuel, and fresh, grey and black water tanks empty. Different or harsher sea conditions and additional selected optional equipment may affect the performance.

STRUCTURE OF THE BOAT

The structural design is compliant to EN-ISO 12215. The hull, deck and superstructures are constructed in sandwich technology. Entire boat have been built using the vinylester resin infusion technique and assembled with structural adhesive engineered for marine application. Thanks to the vinylester resins maximum resistance to osmosis and better surface finishing Sirena Yachts is therefore able to provide a **5-year warranty against osmosis**. This construction technology reduces weight and improves construction quality and consistency. Deck and superstructure are made from **Carbon hybrid fabrics for improved lightness and strength**. Bulkheads are made in PVC sandwich and secondary bonded to the hull with lamination.

SEMI-DISPLACEMENT HULL

A semi-displacement vessel can take advantage of **increased power** and can achieve **greater speeds** when needed. Most of the time, semi-displacement vessel operates in displacement mode and is very **fuel-efficient**. Due to the lesser draft as compared to full displacement vessels, semi-displacement vessels have less “wetted surface area”, requiring less horsepower to propel the hull through the water. A semi-displacement hull can achieve about 35% more speed with the same engine load requirement as compared to a full displacement hull form, or conversely at the same speed use significantly less fuel and energy. The hard chine hull of a semidisplacement vessel is inherently more stable than a rounded bottom full displacement hull. Semi-displacements vessels are far more comfortable at anchor than any rounded bottom design.

EXTERIOR

HULL

- External surface finished with high resistance white gelcoat
- Moulded with tunnel for bow thruster and reinforcement for stern thruster
- Waterline boot top in Sirena red

FLYBRIDGE

- Anti-skid surface finish
- Hinged access weathertight hatch in white aluminium and Plexiglas®
- ISO and ABYC compliant stainless steel handrails and pulpits
- Plexiglas® windshield
- U-shaped sofa at the aft up to 8 people with storage underneath
- Table for up to 8 people with teak top
- Wetbar with sink
- Storage under helm seat
- Helm station with double seating
- Fore sundeck area with cushion and flip-up aft-facing backrest
- Helm station with high resistance gelcoat
- Navigation lights

Helm station equipped with:

- Steering wheel
- Garmin 10" MFD
- Garmin Autopilot Control Head
- Garmin VHF radio
- Depth/Speed transducer
- Anchor windlass switch
- Navigation/anchor lights switch
- USB socket
- Trim-Tab control
- Horn switch
- Compass
- Activation of Bilge pumps

Monitoring system functions integrated in to chartplotter displays:

- Grey water level gauge
- Black water level gauge
- Fresh water level gauge
- Fuel tank level gauge
- Shore power connection status-alarm
- Bilge high level alarm

SUPERSTRUCTURE

- Deckhouse with front and side visors
- Tempered laminated glass deckhouse windows
- Grey-tinted side windows and clear front windows
- Manual sliding window in the galley (port side)
- 2 windscreen wipers with washer
- Navigation lights (red, green)
- Sirena Yachts logo on deck house (port and starboard side)

FOREDECK

- Stainless steel pulpit
- Anti-skid surface
- 2 stainless steel hawses
- 2 mushroom bollards
- Fixed bow anchor roller
- Stainless steel anchor shield on bow
- 1700W anchor windlass
- 21 kg Delta anchor
- 75 m high resistance chain with 10 mm diameter
- Self-draining chain locker
- Sunbathing area with removable cushions, stainless steel handrails and Plexiglas® cup holders

SIDE WALKWAYS

- 2 fuel fillers
- 2 stainless steel fairlead with cleats inside at mid-ship
- Fresh water filling inlet
- Black water deck suction discharge outlet
- Grey water deck suction discharge outlet
- Teak gunwale

AFT COCKPIT

- Teak covered steps from platform to cockpit
- Teak covered floor
- Side boarding gate on each sides
- Saloon door with 3 aluminium panels (1 fixed) in tempered glass
- Flybridge access with anti-skid stair
- 4 stainless steel fairlead
- 2 stainless steel mushroom bollard
- 2 stainless steel and Plexiglas® gates with Sirena Yachts logo
- Cockpit sofa with cushions
- LED spotlights
- 2 waterproof stereo speakers
- Manual activation of the fire extinguisher system
- Stainless steel handrails next to stairs
- Engine room access via GRP hatch
- Soft patch for engine and generator removal
- Storage under cockpit seat

AFT PLATFORM / TRANSOM

- Manual sliding swim ladder integrated in the platform
- Anti-skid platform
- Shower with hot and cold water mixer
- Fresh water shore connection
- Shore power socket 50 A
- Maximum tender dimensions on the platform 3.3 x 1.7 m
- 2 stainless steel folding cleats

INTERIOR

GALLEY

- Galley at the entrance of saloon on port side
- Wooden flooring
- Low and high cabinets and bottle drawer port side
- 230 lt refrigerator and freezer at starboard side
- Storage area with shelves at starboard side
- Worktop in Corian
- Stainless steel sink
- Water mixer
- Two-stove glass ceramic cooktop
- Stainless steel pan holder
- Oven
- Extraction hood
- LED spotlights
- Rubbish bin
- Curtain on the entrance door
- 1 AC socket

SALOON / DINETTE

- Carpet flooring
- Upholstered U-shaped sofa with storage underneath and fixed-foldable table on the port side
- Storage and optional TV lifting system on the starboard side
- LED spotlights
- Curtains on side windows
- Fusion Marine entertainment system
- TV antenna predisposition
- 2 AC socket
- 2 stereo speakers
- Service and engine batteries switches and engine room lighting switch

Helm station equipped with:

- Helm seat on starboard side
- 1 AC socket
- Steering wheel
- Garmin 10" MFD
- Garmin VHF radio
- Depth/Speed transducer
- Spotlights switch
- Wheelhouse electrical panel next to helm seat
- Windscreen washing switch
- Anchor windlass switch
- Navigation/anchor lights switch
- 12 V socket
- USB socket
- Trim-Tab control
- Horn switch
- Compass

Monitoring system functions integrated in to chartplotter displays:

- Grey water level gauge
- Black water level gauge
- Fresh water level gauge
- Shore power connection status-alarm
- Aft storage door position status
- Bilge high level alarm

STAIR TO LOWER DECK

- Carpet on steps
- LED lights on steps
- Handrail

OWNER'S CABIN

- Located amidship - full beam
- Carpet flooring
- En-suite head
- 2 AC sockets
- Double bed
- Mattress
- 1 full size wardrobes with hangers and shelves
- TV antenna predisposition
- Vanity/study desk
- Sofa on starboard side
- Storage unit on port side with drawers
- Storage on bed sides
- LED spotlights
- 2 wall lights
- Roman curtains
- Nr. 2 scenic windows
- Nr. 2 portholes

OWNER'S HEAD

- Located on the forward port of the owner's cabin
- Private access from the owner's cabin
- Head floor in Corian
- Toilet
- Corian flooring in shower area
- Shower area with Plexiglas® door
- Shower head on ceiling and hand shower with mixer
- Sink
- Water mixer
- Bathroom counter top in Corian
- Mirror
- Bathroom furniture with sink
- Air extractor in shower
- LED spotlights
- Nr. 1 porthole
- AC socket with protection
- Toilet accessories
- Curtain

VIP CABIN

- Located on lower deck fore side
- Carpet flooring
- Double bed with underneath storage
- Mattress
- Wardrobe with shelves on starboard side
- TV antenna predisposition
- LED spotlights
- 2 AC sockets
- Roman curtains
- Nr. 2 scenic windows
- Nr. 2 portholes

VIP / GUEST CABIN HEAD

- Located on the port side with direct access from the cabin
- Head floor in Corian
- Toilet
- Shower area with Plexiglas® door
- Shower head on ceiling and hand shower with mixer
- Corian flooring in shower area
- Sink
- Water mixer
- Bathroom counter top in Corian
- Mirror
- Bathroom furniture with sink
- Air extractor in shower
- LED spotlights
- Nr. 1 window with porthole
- Curtain
- AC socket with protection
- Toilet accessories

GUEST CABIN

- Located on the starboard side
- Carpet flooring
- Twin beds with storage underneath
- Mattresses
- Nr. 1 nightstand between two beds
- Full size wardrobe with hanging space mirror and shelves
- Nr. 1 porthole and scenic window
- Roman curtain
- LED lights
- AC socket

ELECTRIC SYSTEM

- Halogen free and flame retardant cables
- Bonding system with 2 sacrificial anodes
- Grounding system
- Galvanic isolator
- 230 V AC - 50 Hz with 50 A shore connection
- 24 V DC - 12 V DC with negative grounded

GENERATOR

- Nr. 1 Cummins Onan or equivalent generator 4 kW - 50 Hz (in the engine room)

PROPULSION SYSTEM

- Cummins QSB 6.7 550 HP x 2
- ZF 280 IV Gearbox (Ratio 2.0 :1)
- 55 mm diameter duplex F51 shaft
- P bracket in OTS material
- 4 blades propellers
- PSS Shaft seal

STEERING & MANOEUVERING SYSTEMS

- Hydraulic steering system
- Rudder blade in Aisi 316
- Trim-Tab

SHORE POWER CONNECTION

- Shore power socket 230 V - 50 A
- Power lines protected by dedicated GFCI circuit breakers
- 15 meter shore connection cable

BATTERIES

- Nr. 6 x 95 Ah batteries for service
- Nr. 4 x 105 Ah batteries for engine start
- Nr. 1 x 95 Ah battery for generator start
- Nr. 1 battery charger - 24 V/80 A for service
- Nr. 1 battery charger - 24 V/16 A for starting batteries
- Nr. 1 battery charger - 12 V/15 A for generator battery

BILGE SYSTEM

- Nr. 1 x 24 V electrical bilge pump in engine room
- Nr. 1 x 24 V automatic electrical bilge pump 24 V in the accommodation area
- Nr. 1 manual Bilge pump
- Engine room emergency pump through a diverting valve fitted on engine seawater cooling line
- Bilge pump operating alarms with warnings on internal dashboard and on the flybridge

FIRE EXTINGUISHING SYSTEM

- Fire Extinguishing System - Catef
- Automatic shutdown system
- Alarm system on helmstations

FUEL SYSTEM

- Nr. 2 x stainless steel tanks (total 1900 liters) located in the engine room
- Fuel level indicator for each tank on monitoring system
- Visual level gauge on starboard tanks
- Diesel check solenoid valves for engines and generator (with ignition switched on) with manual bypass
- 1 single separation filter for generator
- 2 single separation filters for engines

FRESH WATER SYSTEM

- Nr. 1 HDPE tank (600 liters)
- Self priming fresh water pump
- Tank level indicator and empty status integrated in the monitoring system
- 60 liters water heater 220 V - 1200 W
- Hot and cold water in all head rooms, galley, cockpit
- Filling cap on the side-walking
- Shore fresh water connection

BLACK WATER SYSTEM

- Nr. 1 HDPE tank 300 liters capacity
- Tank level indicator integrated in the monitoring system
- 3/4 and full tank indication in the heads
- Fresh water toilet flushing
- Holding tank discharge via suction on deck
- Overboard discharge of waste water via a dedicated line at the exit of the holding tank

GRAY WATER SYSTEM

- Nr. 1 HDPE tank 240 liters capacity
- 3/4 and full tank indication in the heads and galley
- Water drainage from showers and sink into tank
- Level sensor integrated into the monitoring system
- Water drainage via manifold (24V membrane pump)
- Manual/Automatic overboard discharge

SEA WATER SYSTEM

- Nr. 2 sea water intakes with filters and valves for engine cooling system
- Nr. 1 sea water intake with filter and valve for generator cooling system

ENGINE EXHAUST SYSTEM

- Water-cooled engine exhaust, thermal insulated stainless steel manifolds, submerged outlets and bypass line on hull sides

VENTILATION / EXTRACTION

- Air inlet and outlet openings with a GRP cover on hull sides
- Nr. 2 24 V air inlet fans at ventilation channel
- Mist eliminators on the ducts at each side in the engine room

OTHER EQUIPMENT

- Four 12 meters mooring lines in 18mm diameter
- Nr. 8 fenders and covers with 8mm diameter lines
- Owner's manual
- CE certificate

Sirena Yachts reserve the right to change specification without any prior notice.
Effective from 1st August of 2023 **REV03**

SIRENA  YACHTS

SIRENA MARINE