

FOR SALE

84' Horizon



Builder:	Horizon Yachts	Year:	2003
Length:	84'	Engines:	Twin Man 1300hp
Construction:	Fibreglass	Fuel Type:	Diesel
Accommodation:	10	Cruise Speed:	18 knots
PRICE:	\$3,495,000	File Number:	CC069

SPECIFICATIONS

Style:	Horizon Luxury Motor Yacht
Manufacturer:	Horizon Yachts
Year	2003
Length:	84'-0" (25.60m)
Beam:	18'-9" (5.66m)
Draft under full load:	6'-2" (1.88m)
Hull impact force at bow:	Designed to withstand 4 g's.
Fuel:	2035 US gallons (7700 ltrs)
Fresh Water:	400 US gallons (1500 ltrs)
Water maker:	Sea Recovery water maker
Engines:	Twin Man 1300 hp diesel engines
Engine Warranty:	Man 5-year Gold warranty.
Exhaust:	Underwater exhaust
Cruising speed	18.0 knots
Maximum speed	26.0 knots
Bow/stern thrusters	38hp Hydraulic (12 inch) each thruster
Stabilizers	Niad Stabilizers
Air-conditioning	Vessel is fully air-conditioned with water chilled system and separate controls to all areas.
Accommodation	10 persons Master Stateroom midship with ensuite, spa and walk in robe Two VIP Staterooms with ensuite forward One guest room and two crew cabin accommodation aft. Separate bathroom facilities aft
Entertainment	Saloon – Sony surround sound system with DVD, VCR, Television and 200 CD changer. Individual Sony DVD and television to guest accommodation.
Galley	Granite bench tops, marble tiles to floor inlaid with titanium coated stainless steel. Full complement of appliances including full size refrigerator, electric cook top with exhaust fan, microwave convection oven, dishwasher.
Crews Galley	Clothes dryer, washing machine, cook top, refrigerator, stainless steel sink, exhaust fan.
Pilot House	Console styled in leather, Simrad instrumentation including Dual colour radars, chartplotter, sounder and GPS, HF/MF/DSC radio transceiver, GMDSS.
Flybridge	Pilothouse instrumentation mirrored on flybridge helm, entertainment units incorporating hotplate, refrigerator and sink. Sunbed covers ondeck spa. Styled seating and remote control hydraulic telescopic davit.
Survey	This vessel has been designed and constructed to operate under full survey in all states of Australia and within New Zealand.

Engineering

Propulsion and Steering system:

1. Twin D2842 LE404 MAN 1300 diesel engines (5 year Gold Warranty) with ZF BW1900A reduction gears.
2. Dual RACOR 75/1000MA fuel filters/water separator w/metal protect plate, each engine.
3. RACOR 500MA w/metal protect plate fuel filter on generator, per each.
4. Stainless steel Shafts UGINE-SAVOIE grade AISI-630#, with approval material test report.
5. Shaft keyway with protection and approved fatigue strength over 10^7 cycle.
6. Shafting for propeller boss & coupling ends, taper smoother than 1/16.
7. KCA section lifting surface designed, high performance S grade 4 blade propellers.
8. Main and intermediate NiAlBronze I brackets with approval test report.
9. Shaft supporting points arrangement with approval torsion & vibration analysis.
10. Shaft and rudder packing glands with maintenance free TIDE STRONG seals.
11. Stainless steel grade AISI-630# Rudder Post and SUS316 balanced rudder design w/zinc plates, approved torque moment calculation & material test report.
12. MMC engine control system at flybridge & lower pilothouse all w/plug in remote control.
13. Underwater exhaust system for engines, w/mufflers & by-pass, unsymmetrical intake flow wedge for cavitation bubble prevention.
14. HYNAUTIC dual power pumps steering system, with 3rd redundant helm pump.
15. Custom S/S steering wheels on both stations.
16. Heavy-duty SPEICH Stainless steel wipers w/wiper washer & de-fog system.
17. Variable speed control on each windshield wiper.
18. Hydraulic bow & stern AMERICAN BOW THRUSTER, 38 HP for each.
19. HYNAUTIC heavy duty trim-tab with indicators on both stations.
20. Naiad Stabilizer

Engine room and equipment:

1. Well-planned spacious engine room with diamond aluminum deck plates.
2. Double sound & heat insulated material with A-60 grade fire protecting rock wool & high density sound insulation foam.
3. Water tight bulkhead up to freeboard deck line.
4. Full length stainless steel overhead grab rail on each side of engine.
5. S/S engine room pillars w/flexible rubber mounting base.
6. Engine room AC fluorescent light x 2 and DC dome light x 6.
7. Delta -T engine ventilation system, intake AC blowers.
8. Engine alarm system for lub. oil pressure and high water & exhaust temperature.
9. High-volume AC fresh water pressure pump and one DC pump for back up.
10. Fresh-water hose for filling engine and generator expansion tank.
11. Aluminum fuel tanks with sight gauge / "Head Hunter" electrical and "Tank Tender" gauges.
12. Oil changing pump for engines & generator with 30 gallon lub. Oil tank.
13. Heavy-duty watertight engine room door.
14. Sea Recovery water maker, 800Gal/per day
15. Chill Water type, central A/C compressor units up to 144,000 BTU, with 3 stage *48K A/C units
16. Engine room with camera and CCTV control on pilot house.

Electrical system:

1. 240volt / Single Phase / 50 Hz electrical supply from generator & shore power.
2. Two 50 amp shore power inlets on each side of transom, each with 15kw isolation transformer.
3. Main electric panel includes AC and DC multi pole circuit breakers.
4. 240V AC duplex receptacles located throughout including engine room.
5. All main cabling runs on cable trays or in cable ducts. 240 volt and low voltage circuits are installed in separate cable ducts.
6. Colour-coded wiring for easy identification.
7. Through hull Grounding & Cathic protection system.
8. Two ONAN 17.5 kw (50 Hz) generators with sound shield.
9. Automatic and independent battery charger for each banks.
10. GUEST battery switches (vapour proof).
11. 4 x 200 amp/hr gel cell battery bank for engines starter.
12. 4 x 200 amp/hr gel cell battery bank for general service.
13. 2 separate 120 amp/hr batteries for generator starter.
14. 2 x 200 amp/hr gel cell emergency battery system bank above main deck for Navigation & Radio communication & emergency lights.
15. All batteries enclosed with boxes and covers.
16. All ceiling lights by 24VDC power supplier w/ dimmer switch.
17. Indirect lighting under valance in saloon, staterooms, pilothouse and galley.
18. TV antenna on top of radar arch.
19. General Inverter 3.0 kw & Emergency Inverter 250W.
20. 24 volt to 12 volt converters.
21. 10 stations intercom system, w/outlets in saloon galley, pilothouse, engine room, flying bridge & all cabins.
22. Exterior connector for shore phone and cable TV.
23. Public address system through all public space.
24. Blowers & isolation protection in distribution switchboard chamber.

Plumbing system:

1. Emergency remote shutoff valves for all fuel tanks
2. 100 gallon holding tank w/macerator pump.
3. "Y" valve for holding tank dockside pump out.
4. Holding & Sump tanks level indicator with "Head Hunter" & "Sea Land" tank watch dual system.
5. Sump collectors & pumps for each shower area, 100 gallon sump tank, Y valve selectors.
6. Marine grade KiTEC lines for fresh waster system.
7. Two 20-gallon water heaters.
8. SCRIMP made fibreglass water tanks totalling 400 U.S. Gal.
9. Dockside fresh water inlet with pressure reduction valve.
10. Two hi-Pressure fresh water pump, 220VAC & 24VDC , with pressure tanks.
11. Fresh water filter & drinking water pump for galley, wet bars and icemaker.
12. Six electric RULE bilge pumps with floating switch & high level alarms.
13. Each watertight compartment with one manual bilge pump.
14. Bilge area exhaust ventilation.
15. Colour coded piping or name plate system for easy identification.

Fire & Safety System:

1. "DESMI" Main fire fighting pump with min. 25m³/hr capacity in engine room.
2. "DESMI" Emergency fire pump with min. 15m³/hr capacity under fishing cockpit
3. Two fire hydrant outlets with fire box in forward & after deck.
4. "Optec" sprinkler system in Galley & Crew's working room.
5. "Consilium" fire alarm system with 8 loops through whole cabins & public space
6. Fixed "FAIN" CO2 extinguisher in engine room & remote control in pilot house.
7. Fire damper for engine vents
8. Emergency stop for engine & blowers on wheel house
9. Emergency call points for each cabin's exit position

General Interior Equipment:

1. Custom wood trim ceiling panels throughout.
2. Choice of carpet with under pad and edge deco.
3. High gloss wood finish
4. Three cabin suites fwd. of engine room.
5. High density foam mattress with custom bedding covers.
6. Yacht-flex mattress ventilation system for all beds.
7. Headboard for all berths with mirrored back walls.
8. High-quality Italian entrance door lock and cabinet door locks.
9. Hanging locker cabinets in all staterooms.
10. Mirrored bulkhead in main staterooms.
11. Italian halogen ceiling lighting both direct and indirect.
12. Indirect lighting system under sofas, beds, curtain valances.
13. All stairways / passageway and door entrance with safety light system.
14. SONY 14 TV for all staterooms.
15. SONY DVD & stereo in all staterooms.
16. NUTONE Central vacuum cleaner.
17. "Marine Air" chill water air conditioning with separate compressor in engine room.

Saloon:

1. Special design ceiling per requirement
2. Wet bar with icemaker & small refrigerator
3. Sony 29" TV, Sony DVD & Sound stereo system with separate speaker controls for galley, P/H, aft. Deck & F/B, Sony VCR
4. Cold Cathic tube lighting along window side curtain box.
5. "TREND" curved deck entrance door
6. Movable dish locker & buffet table.

Galley & Dinette:

1. Storage cabinets in accordance to arrangement plan.
2. Glass & bottle storage
3. Double stainless steel sinks with trash bin.
4. Galley refrigerator (Siemens, full size)
5. Full size electric cook top with exhaust extractor above.
6. Full size microwave convection oven.
7. Dish washer.
8. Marble floor & counter top
9. Wood patented dining table with 6 chairs

Bathroom & Heads:

1. Marble counter top and back splash in all heads.
2. Seamless polyurethane finish in all heads.
3. Towel bars, rings, cup holders, brush, etc. for all heads.
4. SEALAND fresh water vacuum flush toilets with M-series central pump
5. Exhaust blower for each head.
6. Marble floors in all heads with edge deco & gold strip inlay.
7. Inlaid sink with curve wood face.

Rear accommodation arrangement plan:

1. Siemens washer/dryer.
2. Crew quarters and efficiency galley (with extractor, sink, freezer & refrigerator)
3. Head and shower, hanging lockers, storage lockers, A/C & car stereo system.
4. Captain & crews cabins pre GA layout.

Navigation and instrumentation:

1. Integrated instrument panel on both helm stations.
2. Monitoring system for watertight doors, bilge & sump pumps, blowers, navigation lights.
3. Danforth magnetic compass on both stations.
4. International navigation lights with functional push buttons design.
5. Simrad echo-sounder transducer on both stations.
6. Simrad speed/temp transducer on both stations.
7. Simrad wind vane on both stations.
8. Engine console with all gauges.
9. Simrad Autopilot for both stations
10. Dual Radar system, 48 N.M. w/Colour LCD screens
11. Chart Plotter & Echo Sounder screen shown at 2 stations
12. Two search light "Tokai Sunshine" on hard top
13. Raytheon VHF/DSC for both stations
14. Closed circuit CCTV monitor with 6 cameras including under water camera.
15. Underwater lighting to stern of vessel
16. Simrad dual GPS for both stations
17. Raytheon Loud hailer with extra 5 internal speakers as public address system.
18. "Barrett" HF/MF/DSC radio transceiver
19. EPIRB
20. Radar Transponder

(All other navigational equipment is an owner option)

Qualifications and Notice to Reader

Performance statistics, weight, draft, freeboard and height are estimated only and are not warranted, and actual figures will vary depending on tolerances achieved during the vessel's construction process and the equipment, supplies and stores on board, as well as operational and sea conditions. Horizon reserves the right to substitute equipment and materials stated herein to others which it believes to be of equal or superior quality and to make such design and dimensional changes as it believes are necessary to improve the vessel's performance and function.

All specifications may be subject to change without notice.

Hull and deck exterior general:

- 1 Teak main decks
- 2 High bulwark w/ flush mounted deck lights & teak cap rail w/SUS protection plate.
- 3 4 side gates on bulwark for boarding (P&S).
- 4 Stainless steel integral rollers and chain stopper for anchor chain.
- 5 Vertical Hydraulic & Electrical dual anchor system, windlass Maxwell VW3500
- 6 Stainless steel 130 lb. Dual Anchor (SHHP Super High Holding Power type)
- 7 High tensile K2 grade material, 270 feet anchor chain.
- 8 Fresh water anchor chain wash down
- 9 Heavy-duty S/S 2 handrail w/1-1/4 stanchions.
- 10 Stainless flag pole on stern rail.
- 11 Forward deck storage lockers for fender and lines.
- 12 Forward deck seat w/side lockers.
- 13 Sunbathing cushion on fwd deck w/drink holders.
- 14 Heavy-duty 316# stainless steel cleats and fairlead w/rollers.
- 15 Frameless window structure with Sika Adhesive.
- 16 Toughened safety glass
- 17 Two pilothouse side weather tight entrance doors.
- 18 Colour stripes on hull & deck.
- 19 Stainless steel port holes.
- 20 Built-in shower with hot/cold water above swim platform.
- 21 Large teak inlay swim platform with stairways to back main deck.
- 22 Swimming ladder in folding storage well.
- 23 Back deck dining table (fibreglass with teak surface).
- 24 Solid stainless steel rub rail around hull deck joint.
- 25 Fibreglass rub rail w/stainless steel cap on low aft hull sides
- 26 Stainless steel handrails on sides of back deck stairs.
- 27 Four zinc anodes on transom.
- 28 Canvas covers for flying bridge, helm seats, windshield and sun-pad forward cushion and all FRP seats.
- 29 Stainless steel "TREND" curved sliding door w/screen for main saloon
- 30 Bow & Stern docking lights
- 31 7' fishing cockpit w/ FRP folding table, freezer & live bait.
- 32 Under Water Lights & Camera System
- 33 3rd Engine control (Gear only) station & thrusters control

Flybridge :

1. Teak flybridge decks.
2. Telescope Hydraulic tender davit "Bensezoni 4.2m"
3. Venturi windshield with solid stainless frame.
4. Instrument console with cover.
5. "U" shape seats with fibreglass high-low table.
6. Jacuzzi & removable Sun-bed cushion
7. Wet bar including cook top, drinking water system, refrigerator & MEILE Barbecue unit.
8. Integral stainless steel handrails around bar unit.
9. Indirect lighting system under wet bar and seats.
10. Curved stairway from back deck to flybridge, step height fulfill USL Code.
11. Stainless steel lifting hatch on F/B deck step opening.
12. Oversize drains w/strainers on four corner of flybridge deck with internal overboard drain.
13. Fibreglass radar arch w/antenna bracket.
14. Dual chrome plated electrical horns on top of radar arch.
15. Space for tender or Jet Ski.
16. Flag staff on back of flybridge.
17. FRP bimini hard top
18. Teak cap rail around aft. of F/B bulwark, with hand rails

SURVEY DETAILS:

This vessel has been designed and constructed to operate under full survey in all states of Australia and within New Zealand. Consequently the vessel is constructed to comply with the provisions of Det Norske Veritas (DNV) Classification "High Speed and Light Craft" Rules. And, when operated in Australia, the vessel will be required to be placed under the relevant state survey requirements and shall be able to comply with the relevant provisions of the Uniform Shipping Laws Code (USL).

Under the DNV HSLC Rule, the vessel shall carry the following notation:
DNV +1A1 HSLC R2 , Yacht

Under the USL Code the vessel shall carry the following notations
2 C, "Non passenger vessel" for 12 persons to operate 50 Nmls from the coast
1 D "Passenger vessel " for 40 passengers to operate "Partially Smooth water limits"

Main Structure:

General Requirements

- 1 Hull Strength & structural scantling design criterion;GLCG impact acceleration force=2.0g, including all built in tanks
- 2 Type approval Fibre / Resin & Sandwich Core Material applied.
- 3 4 directions, evenly distributed fibre lamination on all hull shell & sandwich skin structure
- 4 Fibreglass solid hull bottom, High-density DIVINYCELL foam cored construction above water line. Under -29" Hg high vacuum pressure process.
- 5 Window size calculated according to wind & wave impact force at Max. speed, to be compliant with DNV
- 6 Windlass and Davit set, local structure with design approval

Hull Shell

- 1 White Gelcoat finish on exterior w/one extra coat on hull.
- 2 One piece hull SCRIMP[®] lamination w/V-shape keel and longitudinal stringers
- 3 Deck / Superstructure & all sandwich core structure with SCRIMP[®] method
- 4 Main Stringers with high density foam coring.
- 5 Interior structural components all properly bonded to hull.
- 6 INTERNATIONAL bottom anti-fouling paint, w/ INTERNATIONAL anti-osmosis treatment, non-toxicant type.
- 7 Tunnel Design to min. draft up to 6"

Recent Upgrades:

1. 2 x 8 man life rafts
2. M9 Satellite Receiver
3. Foxtel
4. Fixed Sat Phone
5. G3 Mobile x 3 Cordless phones
6. NZ G3 booster
7. New engine room extinguisher - survey
8. Underwater LED lights
9. All stair lights changed to LED

