



HORIZON-E88 MOTOR YACHT

2011 Standard Specifications

Valid date: Dec. 2011

Principal dimensions (approximate):

◆ L.O.A.	:	89'-4"	(27.24 M)
◆ L.W.L.	:	75'-6"	(23.02 M)
◆ Beam	:	21'-1"	(6.40 M)
◆ Draft (prop. tip clearance)	:	6'-3"	(1.91 M)
◆ Height (W.L. to top of arch)	:	29'-9"	(9.07 M)
◆ Displacement (light approx.)	:	180,000 lbs	(82 tons)
◆ Fuel	:	2,700 US gal.	(10,250 ltrs.)
◆ Fresh Water	:	500 US gallons	(1,900 ltrs.)
◆ Engine	:	Twin CAT C32A 1600HP	
◆ Generator	:	2 x 22.5Kw(50Hz) or 2 x 27.5Kw(60Hz)	

A. Hull and Main Structure:

1. White Gelcoat finish.
2. One-piece hull lamination and longitudinal stringers.
3. Hull, Deck & superstructure are built with licensed process SCRIMP™ for improved strength and less weight.
4. Fiberglass solid hull bottom.
5. High-density foam cored construction above water line.
6. Stringers with high density foam coring.
7. Foam cored reinforcement for strength.
8. Interior structural components all properly bonded to hull.
9. Strong collision bulkhead structure for extra safety.
10. INTERNATIONAL brand anti-fouling bottom paint, w/ anti-osmosis treatment.

B. Exterior Deck and Equipment:

1. Nonskid fwd deck, Teak Aft decks, teak swim platform and teak steps.
2. Teak cap rail w/o varnish.
3. Two vertical hydraulic anchor winches "VWC3500".
4. Two high tensile 1/2 inch, 250 feet anchor chains.
5. Two stainless steel 80kg anchors.
6. Two stainless steel rollers w/hull side pocket anchors design.
7. Heavy-duty 316# stainless steel cleats and fairlead w/rollers.
8. High bulwark w/ flush mounted deck lights.
9. 4 FRP bulwark side doors.
10. Freshwater anchor chain wash down.
11. Heavy-duty S/S 2" handrail w/1-1/4" stanchions.



12. Stainless flag pole on bow rail.
13. Forward deck storage locker for fender and lines.
14. Forward deck seat.
15. Sunbathing cushion on fwd deck w/drink holders.
16. Frameless windows clear tempered laminated glass 10 mm for windshield & tinted tempered laminated glass 10 mm for side windows.
17. Stainless steel sliding door for main salon, self locking.
18. Two deckhouse side entrance doors.
19. After deck high-low dining table (fiberglass or teak).
20. Access upper boatdeck through curved teak steps from after deck, stainless steel handrail.
21. Stainless steel handrails on aft deck stairs.
22. S/S supporting pillars 5" on after deck.
23. Internal boat hook holders on after deck.
24. 2" stainless steel rails around swim platform (removable) at stern.
25. Built-in shower with hot/cold water above swim platform.
26. Swimming ladder extractable or fordable.
27. Solid stainless steel rub rail around upper hull side.
28. Fiberglass rub rail w/stainless steel cap on lower aft hull side (for USA/Aussie only).
29. Stainless steel portholes.
30. Exterior LED step lights.

C. Flybridge and Boat deck:

Flybridge

1. Non-skid flybridge deck.
2. SUNBRELLA exterior cushions (standard shipyard color choices).
3. SUNBRELLA canvas covers for flybridge,

- helm seats, aft deck seat, windshield, sun pad forward cushion and seat, standard shipyard selection.
4. Integral stainless steel handrails around exterior FRP cabinet.
5. Indirect lighting system under all furniture and seats.
6. Stainless steel sliding hatch on F/B deck step opening.
7. FRP cabinet with sink and flush mount Barbecue unit.
8. Oversize drains w/strainers on each corner of flybridge deck with internal overboard drains.
9. Fiberglass radar arch w/antenna bracket.
10. One TOKAI SUNSHIN search light.
11. Chrome plated BUELL air horns on top of radar arch.
12. Space for dinghy or Jet Ski.
13. Flag staff on back of flybridge.
14. Hydraulic dinghy davit 1500 lbs.
15. LED white light Horizon group logo in P&S.
16. Bracket for liferaft(1).

Skylounge

17. Stainless steel sliding door to boat deck, self locking.
18. White powder coated safety grab rail on Skylounge port and starboard.
19. Hatch on F/B roof (aft stbd corner) plus S/S ladder.

D. Pilot house and instrument:

1. One Stidd helm chairs Admiral model.
2. Instrument console with leather covering.
3. "U" shape seats w/ wood high-low table. (In accordance with layout) .
4. Heavy-duty SPEICH Stainless steel wipers w/wiper washer system.



5. Variable speed control on each windshield wiper.
6. Full set engine gauges at both stations.
7. Monitoring system for important equipment (bilge pumps, blowers, nav. Lts.).
8. DANFORTH magnetic compass at both helms.
9. International navigation lights.
10. Fuel and water electrical level gauges.
11. Surveillance camera system (aft deck and engine room).

E. Engine propulsion & Steering system:

1. Twin CATERPILLAR C-32A 1600hp diesel engines w/reduction gears.
2. Stainless steel shafts AQUAMET HS 22# or equivalent.
3. High performance 4 blade propellers.
4. Main and intermediate bronze struts w/backing plates.
5. Shaft and rudder packing glands with TIDES Marine dripless seals or equivalent.
6. MMC engine controls with chrome control heads or GLENDENING electronic engine control system at each station.
7. Third control station (engine gear, thruster) on aft deck. (In accordance with layout)
8. HYNAUTIC power steering system.
9. Stainless steel rudder w/zinc plates.
10. Stainless steel emergency tiller in rudder cabin.
11. Custom steering wheels at both stations.
12. Under water exhaust system for engines w/mufflers.
13. Hydraulic AMERICAN BOW THRUSTER 45 hp.
14. HYNAUTIC or equivalent heavy-duty trim

tabs with indicators.

F. Engine room and equipment:

1. Engine room clean design with white finish and lightweight floor.
2. Fire insulation.
3. Heavy-duty insulated engine room door.
4. Stainless steel overhead grab rail on each side of engine.
5. Engine room AC florescent lights and DC dome lights.
6. Engine compartment ventilation blowers.
7. DELTA T or equivalent engine room de-mister filters.
8. Engine mounts on one piece white paint steel channel.
9. Engine alarm system for low oil pressure and high water temperature.
10. Air compressor.
11. TRIDENT HOSE for engine exhaust.
12. Central vacuum cleaner.

G. Electrical systems:

1. Two Onan generators 22.5KW(50hz) or 27.5KW(60hz) with sound shield.
2. Two GLENDENING shore power cable masters 50amp w/75' cable each.
3. Shore power connection, Charles or equivalent ISO boost transformer 50 Amp.
4. Extra shore power plugs(2) on fwd deck.
5. Color-coded wiring for easy identification.
6. Fiberglass water/exhaust separator for generator.
7. Inverter/Charger XANTREX 4kW/150Amp or MASTERVOLT COMBI 2kW/60Amp (total 2 units).
8. GUEST battery switch (vapor proof).
9. Four engines start batteries.
10. Eight 225 AH AGM batteries for ship's



service power.

11. Starting battery for generator.
12. All batteries enclosed with boxes and cover.
13. Main electric panel includes AC & DC circuit breakers.
14. 24 volt DC monitoring and main circuit breaker panel.
15. 12 volt cigarette lighter in main helm station.
16. AC volt duplex receptacles located throughout including engine room.
17. Italian VIMAR switches for lighting system.
18. GFI protection for AC required outlets.
19. Indirect lighting under valance in saloon, staterooms, pilothouse and galley.
20. TV antenna on top of radar arch.
21. Electrolysis bonding system.
22. Cathodic protection with zinc anodes for shafts, struts, etc.
23. Dimmer system for DC halogen lights in aft deck.
24. Dimmer system for AC halogen lights in saloon, master & VIP cabins.
25. Sub panel design in each zone for electrical distribution.

Navigation System

26. Raymarine GPS Raystar125Plus
27. Raymarine 4Kw 72nm Open array radar system with 14.1" E140W widescreen(2) in pilot house and 12.1" E120W widescreen(1) in flybridge
28. Raymarine Fishfinder
29. Raymarine Autopilot
30. Raymarine ST70 multifunction displays
31. Raymarine Wind and speed transducers
32. Raymarine AIS500 AIS
33. Raymarine VHF
34. Raymarine Loudhailer

H. Mechanical systems:

Fuel oil system

1. 2,700 Gallons Aluminum fuel tanks w/sight & electric gauges.
2. Dual RACOR 75/1000 MA fuel filters/water separator, each engine.
3. Fuel transfer pump.
4. RACOR 500 MA fuel filter for each generator.
5. Oil change pump system for engines & generator.

Fresh water system

6. 500 gallon fiberglass water tanks.
7. High-volume AC fresh water pressure pump and one DC pump for back up.
8. Fresh water Charcoal filters in main supply pipe and in galley.
9. Fresh-water hose for filling engine and generator expansion tank.
10. Marine grade lines for fresh water system.
11. Two 30 or three 20 gallon water heaters.
12. Hot water circulation pump.

Sanitary system

13. TECMA toilet system or equivalent. (4 Toilets)
14. 200 gallon holding tank w/macerator pump.
15. "Y" valve for holding tank with deck fitting for dockside pump out.
16. 100 gallon sump tank.
17. Sump pumps system for grey water.
18. Electrical level indicators for holding tank and sump tank.

Bilge water system

19. Five electric RULE bilge pumps.



20. Two manual bilge pumps in engine room and forward cabin.
21. High water level bilge alarm.
22. Bilge exhaust ventilation fans.

Air conditioning system

23. Chilled water MARINE AIR air conditioning.
24. Back up air conditioning sea water cooling pump.
25. Evaporators thru boat.
26. Back up air conditioning circulation pump.(for USA only)

Fire safety system

27. Fire insulation in engine room.
28. Fixed fire extinguisher (FM200) for engine room with remote control.
29. Auto shutdown system.
30. Automatic fire damper system.
31. 4 portable fire extinguishers in recessed lockers.
32. Integrated fire alarm system in pilot house, with heat or smoke detector in each cabin.
33. Fire resistant treatment for pipe penetrations.

I. Interior design and equipments: (As per layout plan)

Interior decoration

1. High-gloss wood finish on vertical and horizontal surfaces (Standard Cherry wood knot/Macore/ Bird's eye maple/ walnut).
2. Interior stairs from maindeck to flybridge/skylounge.
3. Interlocking vinyl-ceiling panels throughout.
4. Teak & holly floor in pilothouse.
5. Teak & holly or marble floors in galley.

6. Marble or granite counter top in galley.
7. Carpet (local supply) floor thru boat except wood floor areas.
8. Italian High-quality door lock and cabinet door locks.
9. Leather saloon and dinette sofa.
10. High-density foam mattress with custom bedding covers.
11. King size bed in master stateroom.
12. Three double or twin staterooms w/ensuite head & shower.
13. Leather bed headboard Master only.
14. Wood bed frames in all cabins.
15. Hanging lockers in all staterooms.
16. Escape hatch with ladder for master stateroom.
17. Halogen ceiling lighting, DC 28V.
18. LED rope lights for safety step lights.
19. LED rope lights under sofas, beds, and valances.
20. Marble or granite counter top and back splash in all heads.
21. Marble or granite floors in all heads.
22. Seamless polyurethane finish in all shower stalls.
23. Towel bars, rings, cup holders, brush, etc. for all heads.
24. Exhaust blower for each head.
25. Inlaid sink with curved wood face for each head.
26. Bathtub in master cabin.
27. Rear accommodation arrangement plan: In accordance w/ layout plan – to include aft quarters, efficiency galley, head and shower, hanging lockers, bunks, storage lockers, A/C.
28. Anti-noise treatment to exhaust system.

Home appliances

29. U-LINE ice maker or refrigerator per layout.(max.1)



30. Stainless steel sink w/garbage disposal.
31. SUBZERO refrigerator.
32. Full size electric cook top with exhaust blower above.
33. Dishwasher.
34. Electric oven.
35. Trash compactor.
36. GE or equivalent stack type washer/dryer.

Telephone and Stereo System

37. Wave WIFI system through boat.
38. Flybridge/After deck sound system through BOSE SA2.
39. Pilot house sound system through BOSE SA2.
40. Saloon BOSE Lifestyle V35 Home entertainment system with iPod dock and separated Blu-Ray player.

41. Saloon 40" LCD TV with High-Low TV system.
42. Master cabin 32" LCD TV with BOSE Lifestyle 235 2.1ch Home entertainment system with iPod dock and separated Blu-Ray player.
43. VIP cabin 26" LCD TV with DC12V DVD car stereo and two speakers.
44. Guest cabins 19" LCD TV with sound system.
45. Crew cabin 19" LCD TV with sound system (1).
46. PANASONIC PBX Telephone with intercom feature, w/outlets in salon, pilothouse, master stateroom, VIP stateroom.
47. Exterior connector for shore phone and cable TV.

**** All specifications subject to change without notice****

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Qualifications and Notice to Reader

Not included are pieces of free standing furniture and lamps, special designer specified lighting, art work, cooking utensils, cutlery and flatware, soft goods and the design fees attendant to personalizing the Owners interior arrangement plan and design. 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 vessels 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. Special treatment of interior fit-out and/or use of non-standard soft furnishings required by the purchaser may subject to additional charge