



# HORIZON-FD75 FLYBRIDGE MOTOR YACHT

2020 Standard Specification

Effective date: Jan. 1st, 2020

## Principal dimensions (approximate):

♦ L.O.A. to Hull	: 70'-6 3/8"	(21.5 M)
♦ L.O.A. to Fixed Swim Platform	: 75'	(22.86 M)
♦ L.W.L.	: 67'-8"	(20.62 M)
♦ Hull Beam	: 20'-4"	( 6.2 M)
♦ Draft (half load condition)	: 5'-7 3/4"	(1.72 M)
♦ Height (half load, W.L. to top of arch)	: 26'-5 1/2"	(8.7 M)
♦ Displacement (half load condition.)	: 147,709 lbs	(67 tons)
♦ Fuel capacity	: 2,400 US gal.	(9,085 ltrs.)
♦ Fresh water capacity	: 300 US gal.	(1,136 ltrs.)
♦ Engine	: Twin Caterpillar C18 ACERT-1136BHP	
♦ Generators	: ONAN 17.5kW(50Hz)*2 <b>or</b> 21.5kW(60Hz)*2	

### A. Hull and Main Structure

1. ABS/DNV type approved fiber / resin & sandwich core material applied.
2. White gelcoat finish for hull above water line, exterior decks and furniture.
3. One piece hull SCRIMP™ cored lamination w/ deep skeg and longitudinal girders.
4. Hull, deck & superstructure are built with licensed process SCRIMP™ for improved strength and less weight.
5. High-density foam cored hull bottom.
6. High-density Divinycell or equivalent foam cored hull sides, decks and superstructure.
7. Stringers with high density foam coring.
8. Interior structural components all properly bonded to hull.
9. Strong collision bulkhead structure for extra

safety.

10. International anti-fouling bottom paint w/ anti-osmosis treatment.
11. PropSpeed/PropGold metal paint for underwater appendages.
12. Tunnels for reduced draft.
13. High Performance Piercing Bow (HPPB) with S/S protection plates.

### B. Exterior Deck and Equipment

#### Fitting

1. Non-skid main deck.
2. Non-skid flybridge decks.
3. Teak deck on aft deck, swim platform & stair steps.
4. Heavy-duty S/S #316 2" handrail w/ 1-1/4" stanchions.



5. Heavy-duty 316# S/S cleats total 10 ea, includes two cleats at transom P&S and fairlead w/rollers.
6. S/S flag pole on bow rail.
7. S/S flag pole at stern.
8. Cover for fuel inlet in recessed boxes and water inlet on the deck.
9. Flybridge tinted acrylic windshield with S/S frame.
10. FRP cap rail.
11. Boat hooks (x2) (aft. & fwd. deck as shipped loose).

#### Mooring System

12. Vertical hydraulic anchor winch "MAXWELL VWC3500C".
13. 80 kg S/S anchor (x1).
14. 300 Feet high tensile 1/2" anchor chain (x1).
15. S/S rollers and chain stopper.

#### Doors, Hatches, Windows & Port Holes

16. S/S manual foldable sliding door for main salon.
17. Deckhouse side entrance door (x1).
18. Frameless windows, tinted tempered safety glass.
19. S/S portholes w/ screens.
20. S/S frame hatch on flybridge stair opening.
21. One escape hatch w/ screen in on deck master cabin.
22. S/S transom gates from aft deck to swim platform.
23. One hatch on F/B hardtop, above console.

#### Fwd Deck Area

24. Sunpad on fwd deck w/ drink holders, pop up LED lights.
25. Forward deck storage lockers.
26. Forward deck seat w/ backrest.

#### Aft Deck Area

27. Aft deck hi-lo dining table with FRP seating as per layout.
28. Comfortable stairs from aft deck to F/B.
29. Modern designed transom integrated with aft deck seat.
30. S/S handrails on aft deck stairs.
31. Boarding gates on port & stbd. sides.

#### Swim Platform Area

32. Water tight door from swim platform to aft quarters.
33. Manual S/S swim ladder.
34. Built-in shower with hot/cold water.

#### Exterior lighting

35. LED courtesy lights.
36. LED bulwark w/ flush mounted deck lights.
37. LED ceiling lights.
38. Dimmer system for F/B and aft deck overhead lighting
39. White lights for Horizon logo on P&S.
40. LED navigation lights.
41. Wiring for boat name on transom.
42. Indirect lighting system under seats.

#### C. Flybridge

1. One STIDD white vinyl helm chair.
2. Standard choices of Corian/Marble for bar countertop and tabletop from standard collection.
3. L-shaped loose seats with table.
4. Luxury instrument console.
5. New design FRP radar arch.
6. Wet bar package:
  - Sink.
  - Refrigerator (U-LINE)\*1.
  - One 24" elec. barbecue in custom cabinet as per layout, with automatic electric cut-off switches for safe use.
7. Drink holder.
8. Oversize drains w/ strainers on each corner of Flybridge deck and internal overboard drains.
9. Hydraulic Steelhead davit (1000lb).
10. S/S safety rail around F/B boat deck.

#### D. Pilothouse Helm Station

1. One STIDD black vinyl helm chair
2. Integrated instrument panel on both helm stations.



3. Engine instruments on both stations.
4. Red light above helm station.
5. Compass on both helm stations.
6. Engine alarm system for low oil pressure and high water temperature.
7. EXALTO S/S wiper w/ variable speed wiper washer system and control for lower station front center window.
8. New CZone digital monitoring & control system :
  - a. Navigation lights, bilge pumps, sump pumps, engine room blowers control.
  - b. Tank level monitoring with low level alarm for fuel tank, water tank & holding tank.
  - c. Monitoring all batteries voltage level and low voltage level alarm.
  - d. Monitoring smoke alarms in electric chambers.
  - e. Start/stop gens from PH and mobile devices.
  - f. Monitoring Voltage/Amp. status with overload alarm for shore power /Gen.
  - g. Aft. deck lighting sign for shore power and charging system operation status.
  - h. CZone Wi-Fi for mobile devices to execute all function above in hand.
9. MMC electronic engine control system at flybridge & lower helm station.
10. S/S steering wheels at F/B and lower helm stations.
11. Electric air horns.
12. Surveillance camera system (cameras at aft deck\*1 and engine room\*1).

#### E. Engine Room and Equipment

1. Engine room designed with white finish and aluminum embossed plate.
2. Sound & heat insulated material in bulkheads and ceiling.
3. Engine room door\*1.
4. S/S overhead grab rail on each side of engine.
5. Engine room DC LED lights.
6. Engine compartment blowers (AC & DC).
7. LED backing lights for fuel sight gauge & fuel filters.
8. Air compressor (\*1).

#### F. Electrical System

##### General

1. Color-coded wiring for easy identification.
2. BEP battery switch.
3. Main electric panel includes AC & DC circuit breakers.
4. Italian VIMAR switches for lighting switches & receptacles.
5. USB charger outlet in each cabin\*2, salon\*1 and pilothouse\*1.
6. AC volt duplex receptacles located throughout including engine room.
7. GFI protection for all AC outlets in exterior, heads, galley, and engine room.
8. 24 volt DC monitoring.
9. Electrolysis bonding system.
10. Two zinc anodes on transom.
11. Underwaterlights\*4 (blue or white color)

##### AC/DC Main Power System

12. One ONAN generator MDKBP 17.5 kW (50Hz)\*2 or 21.5kW (60Hz)\*2 e-QD digital network function with sound shield.
13. One inverter 3kW.
14. 24V DC to 12V DC step down 40A transformer\*1.
15. One 60A battery charger for engine & generator start up batteries.
16. **Two** 80A battery chargers with control panel for service batteries.
17. 210A 12V batteries (x4) for engine & generator start up.
18. DEEP CYCLE 400A/6V batteries (x8) for ship's service power.
19. Select switch for AC power supply.
20. All batteries enclosed with proper fixtures.
21. Vapor proof battery switch.

##### Shore Power System

22. One Glendinning shore power cable master 50Amp w/75' power cable and one 50Amp shore power connection w/plug at stern portside.
23. ANG12.5KVA transformer (\*2) for each 50amp shore power connection (*option*).



## G. Mechanical System

### Fuel and Lube Oil System

1. Aluminum fuel tanks w/ heavy-duty sight gauges & self-closing control valve.
2. Dual RACOR 75/1000MA fuel filters/water separator, each engine.
3. RACOR 500MA fuels filter on generator.
4. Oil changes pump system for engine, gears & generator.

### Fresh Water System

5. Built in FRP water tank.
6. High-volume AC fresh water pressure pump and one DC pump for back up.
7. Fresh water charcoal filters in main supply pipe.
8. Marine grade lines and color-coded piping for fresh water system.
9. 20 gallon (x2) water heater.
10. Hot water circulation pump.
11. Fresh water hose for filling engine and generator expansion tank.
12. Fresh water and sea water anchor chain washdown by manual operation.
13. Aft fresh water deck washes.

### Sanitary System

14. Built in FRP 120 gallon holding tank w/macerator pump.
15. Electric level indicators for holding tank.
16. Y valve for holding tank dockside pump out.
17. Electric flush toilet in each head.
18. Sump pumps for drains overboard.

### Bilge Water System

19. Electric RULE bilge pumps.
20. High water bilge alarm.
21. Manual bilge pump in engine room (x1).
22. One bilge exhaust blower.

### Exhaust System

23. Exhaust system for engines w/mufflers.
24. TRIDENT hose for engine exhaust.
25. FRP water/exhaust separator for generator.

26. S/S covers for engine exhaust pipes.

### Fire Safety System

27. One SEAFIRE automatic/manual fire extinguisher for engine room with panel in helm station.
28. Integrated fire alarm system in pilothouse with smoke detector in each zone.
29. Auto shutdown system.
30. Manual fire damper system.

### Air Conditioning System

31. MARINE AIR chilled water air conditioning system for salon and each cabin.

### Propulsion/ Steering System

32. ABT hydraulic bow and stern thrusters (38 HP).
33. Hypro Electronic Command Steering System.
34. S/S AQUA TECH #22 HS shafts.
35. High performance S class 4 blade propellers in NiAlBr.
36. Shaft and rudder packing glands with maintenance free TIDES seals or equivalent.
37. Main and intermediate bronze struts w/ backing plates.
38. Emergency device of steering.
39. S/S rudder w/zinc plates.
40. Hydro Tab trim tabs with indicators

## H. Interior Design and Equipment

### Interior Finish

1. Standard layout: 4 staterooms with 3 heads plus crew cabin at stern.
2. Standard collection of satin finish wood for interior furniture.
3. Standard collection of wood floor in salon, pilothouse, walkway and stairway.
4. Standard selection of carpet (local supply) floor in cabins.
5. Choice of Marble/ Granite / Corian floors in galley from shipyard standard collection.
6. Wood bed frame in all cabins.
7. Hanging lockers cabinets in staterooms.
8. High-quality door lock.
9. High-quality push buttons for cabinet door.



10. Standard collection of interlocking vinyl ceiling panels throughout.

#### **Heads and Showers General**

11. Porcelain sink for each head.  
 12. Choice of Corian/Marble floor, countertop and backsplashes in all heads from standard shipyard collection.  
 13. White Corian floor in all shower rooms.  
 14. GROHE bathroom faucets & shower (shipyard standard).  
 15. Towel bar, towel ring, cup holder, and toilet brush for all heads.  
 16. Mirror for each head.  
 17. Exhaust blower for each shower room.  
 18. Wood walls in all heads.  
 19. Seamless FRP finish in all showers.  
 20. Clear glass shower door with S/S handle for shower room.

#### **Salon**

21. L-shaped sofa in fabric.  
 22. Coffee table.  
 23. TV entertainment system in half height cabinet.  
 24. Glass cabinet.  
 25. Ice maker (U-LINE) x1.  
 26. Removable folding dining table with six chairs.

#### **Galley**

27. Choice of Corian/Granite countertop and backsplash from shipyard standard collection.  
 28. S/S sink & faucet.  
 29. Storage lockers.

#### **MID Guest Stateroom**

30. Queen size bed.  
 31. High density hotel grade pocket spring mattresses  
 32. Upholstered headboard.  
 33. Two portlights w/ screens.  
 34. Hanging locker.  
 35. Fully equipped head & shower.

#### **Stbd. Guest Stateroom**

36. Queen size bed.  
 37. High density hotel grade pocket spring mattresses  
 38. Upholstered headboard.  
 39. One portlights w/ screens.  
 40. Hanging locker.

#### **Port Guest Stateroom**

41. Foam mattress.  
 42. Upholstered headboard.  
 43. One portlight w/ screen.  
 44. Hanging locker.  
 45. Two single berths with cabinet & two reading lights.

#### **Master Stateroom**

46. King size bed.  
 47. High density hotel grade pocket spring mattresses  
 48. Upholstered headboard.  
 49. Four portlights w/screen.  
 50. Bench sofa.  
 51. Vanity table with chair and stbd. side.  
 52. Fully equipped head & shower.  
 53. Safe\*1.  
 54. Elec. ceiling fold-down TV.  
 55. Double sliding door for head entrance.

#### **Crew Quarters**

56. S/S countertop working bench, head & shower, hanging lockers, bunks with reading lights and air conditioning.  
 57. Satin finish wood walls, vinyl ceiling, and laminate PVC floor.  
 58. Entrance from transom watertight door.

#### **Interior Lighting**

59. LED ceiling lighting.  
 60. LED rope lights for safety step lights.  
 61. LED rope lights under sofas, beds.  
 62. Indirect lighting under valance in salon, staterooms, pilothouse and galley.  
 63. Dimmer system for LED ceiling lights in salon and master stateroom area.



### Soft Goods

64. Standard choice of fabrics for bedspreads, fitted sheets, pillows and pillowcases, one set per berth.
65. Standard choices of SUNBRELLA fabrics for exterior cushions.
66. Standard choice of SUNBRELLA canvas covers for flybridge exterior seats, helm station, helm chair, aft deck seat, windshield, sunpad, and foredeck seat.

### Galley Appliances

67. Jenn-Air or equivalent French door refrigerator.
68. Jenn-Air or equivalent electric cook top with GE exhaust blower above.
69. Jenn-Air or equivalent oven.
70. GE or equivalent microwave.
71. Ggarbage disposal. (except Europe)
72. Bosch or equivalent dishwasher.
73. Trash compactor (except Europe)
74. GE or equivalent stacked washer and dryer.

### I. Navigation System

1. Garmin GPS.
2. Garmin 48" 12kW 72nm open array radar system.
3. Garmin 16" (x3) multifunction displays.
4. Garmin Autopilot system.
5. Garmin Wind/Speed/Temp/Depth transducers.

6. Garmin VHF with built-in loudhailer.
7. Garmin AIS.
8. Multifunction instrument\*1.

\*Raymarine system with equivalent spec/budget can be selected upon requested.

### J. Entertainment Package

1. Salon LCD 55" TV w/ BOSE home entertainment system and separate Blu-ray disc player.
2. Master stateroom SAMSUNG LCD 50" TV with BOSE home entertainment system and separate Blu-ray disc player.
3. MID guest stateroom LCD 40" TV w/ Fusion marine DVD stereo (x1) and SM speakers (x2).
4. Stbd. guest stateroom LCD 26" TV w/ Fusion marine DVD stereo (x1) and SM speakers (x2).
5. Port guest stateroom LCD 26" TV w/ Fusion marine DVD stereo (x1) and SM speakers (x2).
6. Crew cabin with FUSION Marine Stereo (x1) and SM speakers (x2)
7. After deck Fusion marine stereo (x1) and SM speakers (x2).
8. Forward deck SM speaker (x2) to share music from after deck stereo.
9. Flybridge Fusion marine stereo (x1) and SM speakers (x4)
10. TV antenna on top of radar arch.
11. Cellular router System with Wi-Fi onboard.

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

### 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. Owner supplied items or special treatment of interior fit-out and/or use of non-standard soft furnishings required by the purchaser may be subject to additional charges.*