

# Celebrity 72-SC Sailing Catamaran Specification

**Designer: Bill Dixon N.A.**  
**Structural Engineers: High Modulus NZ**

## PRINCIPAL SPECIFICATIONS

Length Overall	21.03M	72Ft.
Length Waterline	18.99m	62'28Ft
Beam	10.79m	35'5"
Draft	1.55m	5'0"
Displacement (Light)	28.6 tonnes	61,728 Lbs
Displacement (Heavy)	31.8 tonnes	
Fuel Capacity	1,200 liters	317 Gallons
Water Capacity	1500 liters	396 US Gallons
Mainsail Area	135.00 m2	1435 sq. ft.
Genoa Area	106.00 m2	1141 sq. ft.
Height of Mast( above the water )	29.36 M	96.33 Ft

The Celebrity 72 achieves the strength essential in catamaran design by bonding the bulkheads into a one piece hull molding to form deep box sections and then by bonding the one piece deck molding to the hull and bulkheads to create a monocoque shell system. The hull has integrated longitudinal and transverse minicelles designed specifically to increase stiffness. The bulkheads are strategically located to absorb torsion and compression loads inherent in a catamaran's structure. The mainmast support bulkhead is mounted on a stringer to help transmit the mast loads away from the bridge deck. The hulls are hand laid with isophthalic resin to German Lloyds certification. The first layers use powder bound mat and vinyl ester resin to minimize risk of osmosis. The hull is cored above the waterline with end grain balsa core. The deck is molded using similar techniques of end grain balsa core reinforced at high stress areas with uni-directional and double bias cloth. All bulkheads and cabin soles are made of balsa cored GRP laminate. Watertight bulkheads fore and aft add buoyancy and security in the event of collision and ensure the watertight integrity of the boat.

- **HULL & DECK:**

- FRP balsa core construction with hand laid uni-directional and double bias E-glass built according to Lloyds Standard.
- Teak inlaid transom steps
- Teak-inlaid cockpit
- Teak inlaid catwalk to bow cross member.
- Non-skid surface on side decks and coach roof
- Nylon webbing trampolines on bow
- Balsa cored structural bulkheads
- Nida cored (PVC Honeycomb) secondary interior bulkheads and cabin soles.
- Hull and deck joined with 3M 5200 and stainless steel fasteners
- Bronze thru-hull fittings with ball valves
- Hull and deck joint chemically bonded and fastened with SS bolts.
- Teak Capping rail bolted inboard of half rounded sheer.
- Eight (8) Lewmar 'Atlantic' Anodized Aluminum opening ports in each hull.
- Four (4) Goiot Approved Hull escape hatches in Anodized Aluminum
- Cabin House windows of 12mm Lexan fitted with Sikaflex.
- Anchor and Stowage Lockers forward of mast.
- Sail locker in port bow.
- Access Hatch on transoms with gas strut supports.
- Storage for dive tanks in cockpit locker.
- Large molded seating area forward of mast with Sunbrella cushions
- Teak laid "Beach Deck" with Sikaflex caulking
- Keel Shoes in 316 stainless steel

- **DECK HARDWARE**

- Eighteen (18) Lewmar 'Ocean' or 'Low Profile' Anodized Aluminum opening deck hatches
- SS Stanchions with 6mm SS wire are 750MM (29") high
- Port and Starboard side boarding gates
- Push pit in SS with handrails down transoms
- SS ensign bracket on push pit
- Pulpits in SS with integral teak seats
- 4 X SS 10" Cleats on each bow and transom hull
- 2 X SS mid ship spring cleats with SS protection
- Hydraulic anchor windlass Maxwell Liberty, Lewmar 'V' series or similar
- 75kg (165lbs) CQR Anchor, 100M (330FT) 8MM (3/8") HT chain, 30M (100FT) 20MM (3/4") rope
- Eight (8) fenders
- Eight docklines 16MM (5/8"), 4 x 30M (100'), 4 x 25M (82')
- SS boarding ladder four (4) step on starboard transom
- Eight (8) deck SS Pad Eyes
- Two (2) SS Horseshoe Life ring brackets
- Four (4) 50mm Cockpit Scuppers
- Two (2) Deck SS Water Filler stamped.
- Two (2) Deck SS Diesel Filler stamped.

- Two (2) Deck SS Waste Pump Out
- One (1) 20m x 25mm Canvas Fire and Deck Hose
- SS Deck handrails
- SS Mast Pulpit
- H&C Transom shower
- Sea water/Fresh water deck wash system

- **MAST AND RIGGING:**

- Anodized Aluminum Mast section
- Anodized Aluminum Boom
- 316 SS Custom Gooseneck with reef hooks
- Three Line Stopper one each side of mast.
- Anodized Aluminum three (3) Sheave Masthead Crane.
- Internal Halyards with SS exit ports.
- Anodized Aluminum Five ( 5) Sheave Boom End Cap
- Triple Spreader Rig
- Standing Rigging 316 SS Wire
- SS Chain plate Tangs for shrouds
- Bat-car Mainsail Slide System

- **SAIL HANDLING & RUNNING RIGGING**

- Two (2) Harken or Lewmar Hydraulic Mainsheet Winches
- Two (2) Harken or Lewmar Hydraulic MPS/Staysail/Furling Winches
- Two (2) Harken or Lewmar Hydraulic Genoa Winches
- Two (2) Harken or Lewmar Hydraulic Reef/Halyard/Outhaul/Kicker Winches
- Harken or Lewmar Genoa Furling System
- Harken or Lewmar Genoa Track mounted on Cabin Roof Port & Starboard
- Harken or Lewmar Custom Mainsheet traveler system including:
- Three (3) Harken/Lewmar 3016 125mm Single Blocks
- Two (2 ) Harken/lewmar 3007 100mm Single Blocks
- Two (2) Harken/Lewmar 1770 Link Plates
- Three (3) Harken/Lewmar 2631-1 Cars Linked with outboard Toggles
- One (1) Section Big Boat Track Harken/Lewmar 758.6m
- One (1) Track Bend
- Two (2) Harken/Lewmar C3084 End Contr4ol Sheaves
- Two (2) Harken/Lewmar 3010 100mm Foot Blocks
- Two (2) Harken/lewmar 1969 75mm Blocks for Traveler Control on car
- Two (2) Harken/Lewmar 1972 75mm Foot Up Blocks- Traveler Control.
- Two (2) Harken/Lewmar 3018 125mm Stand Up Blocks for MPS
- Two (2) Sections Harken/Lewmar Big Boat Pinstop Track 3M Long
- Two (2) Harken/Lewmar C6156 Big Boat Genoa Lead car w/Pinstop
- Four (4) Harken/Lewmar HCP577 Big Boat Hi-Load End Stop
- Six (6) Harken/Lewmar 3012 100mm Stand Up Blocks for Mast Base
- Four (4) Harken/Lewmar 1974 75mm Stand Up Blocks for Mast Base
- Two (2) Harken/Lewmar 3007 100mm Single Block for Staysail

- One (1) Harken/Lewmar 3015 100mm Strap Block for Staysail
- One (1) Harken/Lewmar 1972 75mm Foot Up Block for Staysail
- Two (2) Harken/Lewmar 1963 57mm High Load Foot blocks
- One (1) Harken/Lewmar 689 Large SS Diamond Pad eye
- Two (2) Harken/Lewmar 1929 Big Boat High Load Traveler Car
- One (1) Harken/Lewmar 1770 Coupler Plate
- One (1) 758.3.6M Harken/Lewmar Big Boat Track 3.6M Long
- One (1) Harken/Lewmar 790 Trac Bend
- Two (2) 648 Harken/Lewmar Medium SS Round Pad eye
- Two (2) Harken/Lewmar 3012 100mm Stand Up Blocks for Fore guy
- One (1) Harken/Lewmar Headsail furler.
- One (1) Harken/Lewmar Staysail Furler
- One (1) Harken/Lewmar 1973 75mm Double Foot Block
- One (1) harken/Lewmar1964 57mm Double Foot Block
- Marlow Braid Mainsheet
- Marlow Braid Main Halyard
- Marlow Braid Genoa Halyard
- Marlow Braid Gennaker Halyard
- Marlow Braid Spare Halyard
- Marlow Double braid topping lift
- Marlow Braid Color Coded Triple Reefing Lines

- **SAILS & CANVAS:**

- Doyle or similar Fully Battened Mainsail with Bat-car type Slides
- Mainsail 10oz. UV Protected double seam coat Sailcloth
- Doyle or similar 120% Genoa with Sunbrella Sacrificial Strip
- Doyle or similar Staysail
- “StacPac” Sail cover system in Sunbrella

- **COCKPIT:**

- Oval Cockpit styling with large curved settee at aft portion
- Two curved settees port and starboard facing aft
- Large oval Teak Cockpit table at large settee
- Sunbrella acrylic settee cushions
- Storage under all molded seating
- Dual helm stations with compass and console for instruments/engine controls
- Dual Helmsman seats Port and Starboard aft
- DVD/CD player and monitor
- Two (2) marine quality cockpit stereo speakers
- Overhead and courtesy floor lighting
- Teak laid in Cockpit with Life Raft Stowage.
- Main Companionway waterproof door sliding with tinted safety glass

- **SALOON**

- Panoramic view through ten large tinted, fixed windows.
- Curved Settee starboard side
- Convertible dining Cocktail Table in Wood
- Portside 'L' shaped settee with coffee table
- Cabinetry for entertainment center
- AM/FM TV antenna on mast
- Navigation Station forward with space Raymarine or similar navigation package
- Entertainment system with DVD, CD, 42" Flat screen plasma TV.
- Recessed SS Lighting
- Indirect lighting
- Bar area for glass and bottle storage Insulated Box adjacent.
- Headliner combination wood battens and vinyl.
- Alcantra or similar saloon upholstery
- Matching drapes and shades
- Two (2) club chairs
- Three (3) bar stools
- Marble pattern inlaid dining table
- Custom woven carpet with Owner's crest
- Fridge - Bar 85 Liters ( approx. 3 cu. ft. ) Isotherm, Veco or similar
- Four (4) Hella fans

- **GALLEY:**

- Large Galley in Starboard Hull
- Formica counter tops with wood trim. Double SS Sink
- Upright Fridge 380 Liters ( approx 13.5 cu. ft. ) Isotherm, Veco or similar
- Freezer 160 Liters ( approx 5.5 cu. ft. ) Isotherm, Veco or similar
- Four Burner FORCE TEN LPG or Electric Stove with full size oven.
- Double SS Sink with SS mixer sprayer.
- Microwave oven
- Cabinet faces in Melamine or similar finish
- Custom Drawers
- Custom Storage for China and glassware
- Sole Teak & Holly.
- Two (2) Hella Fans
- Opening overhead hatch with screens and shades
- Opening Portlight
- Trash compactor

- **FORWARD STATEROOMS: ( Port & Starboard )**

- Single/ Honeymoon Double under bridge deck
- Storage under berth
- Settee Outboard convertible to single Pullman upper and single or honeymoon double lower.

- Double hanging Lockers
- Automatic Lights in Lockers:
- SS reading lights
- Drawers under berth
- Wood surfaces in American Cherry standard, other wood available as options
- Vinyl wall covering standard Nu-Leather or Alcantra optional.wallcovering or similar
- SS Halogen lighting.
- Opening Port
- Opening Overhead Hatch with Screen and Shades.
- Hella Fans
- Courtesy Floor Nightlight.
- Entertainment system with DVD/CD player and Flat screen monitor

- **FORWARD HEADS & SHOWERS ( Port & Starboard )**

- Head compartments to be molded GRP
- Heads to be Tecma Electric flush with timer
- Showers separated from Head and Basin compartment.
- Counter tops in Formica Corian or similar Synthetic marble optional.
- Mirrors in Head compartment to be Lexan
- Storage under Basin
- Head doors to be composite inside and varnished outside with ventilation.
- 3 x Halogen lights
- SS tissue roller
- SS towel and clothing loops and hooks.
- Hatch overhead with shade and screen

- **AFT STATEROOMS ( Port and Starboard )**

- Queen size berths with head of berth aft.
- Option of single berths with insert for queen berth.
- Drawers under berth
- Large hanging locker with shelf storage
- Automatic lights in locker.
- Large overhead hatch with shade and screen
- Opening Port in hull
- Reading and overhead SS light fixtures.
- Hella Fans
- Teak & Holly composite sole
- Courtesy Floor Nightlight.
- Entertainment system with DVD/CD player and Flat screen monitor

- **AFT HEAD & SHOWER ( Port & Starboard )**

- Molded head and shower units.
- Heads to be Tecma Electric flush with timer.

- Separate shower compartment with molded soap dishes
- Fold down seat in shower
- Counter top in Formica, Corian or similar synthetic marble optional.
- Mirror(s) in Lexan
- SS Tissue holders
- SS towel loops and clothing hooks
- Ample storage under basin area.
- 3 x halogen lights
- Head doors Formica inside varnished outside.
- Opening hatch overhead with shade and screen.

- **CREW CABIN/TWIN GUEST CABIN ( Port Hull Amid-ship )**

- Single Berth Outboard and Inboard with space between
- Optional insert to convert to King Berth
- Drawer storage under berths
- Opening overhead hatch with shade & screen.
- Hella Fan(s)
- Form fit Carpet with Teak & Holly composite sole.
- Opening hull portlight

- **CREW /GUEST HEAD**

- Head compartment molded GRP
- Head to be Tecma electric with timer.
- Counter tops in Formica, Corian or similar synthetic optional.
- Storage under and behind basin.
- Separate stall shower with molded soap dishes
- SS Tissue holders
- SS towel loop and clothing hooks
- Lexan Mirrors
- Florescent Lighting
- Overhead hatch with shade & screen

- **CREW BERTH IN BOW(S)**

- Single berth in ONE bow compartment with access from deck hatch.

- **ENGINE & MACHINERY**

- Twin Steyr 144hp at 3,800rpm Diesel.
- Twin ZF 45-1 3.74:1 vertical offset Gearboxes.
- Generator 27kW Onan or Westerbeke.
- Dual 90 Amp 12v alternators, engine start battery charging
- Engine Cooling Fresh water with Raw water heat exchanger
- Aquafax gunmetal strainer to seawater manifold with Seacocks and Ball valves
- Engine Instrument Panel at Helm Position(s)
- Seacocks and Apertures to be Bronze

- Propellers and shafts to CE spec and supplied by Marine Propellers UK or ZF Faster Propulsion Taiwan.
- Duramax Stern tube and shaft seal system.
- Steering system(s) hydraulic with allowance for Auto-Pilot
- Fuel System -GRP Vinylester Fuel tanks. (1,200 liters - 2 x 350litres & 2 x 250 Litres)
- Racor fuel filter(s) dual set for each engine and generator.

- **PLUMBING**

- Bilge Pumps- eight (8) Sahara automatic 1100 GPH each.
- Two manual bilge pumps Waring Amazon Warrior @ 35gal/min
- Hot & Cold Pressure water from X-caliber pressure set 38LPM (10GPM) to 4.5BAR (67PSI)
- Hot water heater - Two (2) 50Liter tanks with 220v AC 1.5 Kw immersion heater
- Water maker – HRO Seafari SFC 420-1 400 GPD or similar
- Black water System: Black water tank with diverter valve to direct overboard discharge 2 x 150 Liter tanks
- 2 x manual pumps for Blackwater discharge.
- Black water plumbing to be high grade odor proof quality.
- Grey water system: ( Tanks 2 x 150 Liters)
- Sinks, Showers, Air/Con, Fridge drains into grey water tank. Diverter valve for galley sink to overboard discharge.
- Engine room insulation 32mm Fire Zero rated
- Two (2) 14.5kg Aluminum Propane Gas Bottles with sniffer and MSA/USCG approved installation

- **ELECTRICAL:**

- Voltage: 24v DC & 220/50HZ
- Switchboards: Both a 24v DC and a 220 VAC switchboard will be standard . Bolted lugs on connectors
- Wiring - Marine cables approved by Lloyds and ABS
- Wiring : to be colored coded and numbered, full loop and run in PVC chases. Tinned wiring
- Mast wiring run in plastic tubes
- Batteries to be sealed type and two systems : Service and Engine starting.
- Service: 18 Absorbed Glass mat equal 1800AH to run all domestic services
- Engine Start: 2X120AH engine start and 1X120AH Generator start
- Service battery charging from 2 x 150Amp 24VDC Alternators driven from main engines
- Lighting throughout will be 24v DC
- Lights under the lower spreaders and one forward facing deck light on the front of the mast.
- Fifteen (15) Electrical outlets throughout will be double 220v. Connected to Inverter. Twin power ( 220/110) shaver sockets in bathrooms
- One (1) 25 m Blue Shore Power Cord with Hubble fittings

- Alarm System: Environment- High Bilge, Gas, Fire/smoke/heat, (Notifier)  
Machinery: High water temp, low oil pressure on main engine and generator.
- **NAVIGATION & ELECTRONICS:**
  - 2 x 4” Danforth Constellation Compass at each helm with light and dimmer.
  - Raymarine or similar wind/speed/depth instruments
  - VHF radio at inside helm
  - Raymarine E120 MSD or similar chart plotter (2)
  - Raymarine 24 mile radar or similar interfaced with MSD’s
  - Coursemaster or Raymarine Autopilot
  - Handheld remote to interface with supplied Autopilot
- **INTERIOR FINISH:**
  - Hull interior surfaces to be vinyl (standard) , with silk or Alcantara optional
  - Salon and Stateroom upholstery to be Choice of Acrylic woven (standard) Leather (optional)
  - Port curtains and salon blinds to be in matching materials.
  - Furniture and bulkhead surfaces to be mica in areas for low maintenance in charter.
  - Wood Trim selections Thai or Burma Teak, Standard. US Maple, Cherry, Mahogany , Beech Optional
  - Cushions for berths and settees to be of high grade foam of minimum 150mm.
  - All hardware to be SS as standard
- **GENERAL**
  - Antifouling paint
  - Emergency tiller
  - Winch handles