



FRIENDSHIP YACHT COMPANY

FRIENDSHIP 50 SPECIFICATION AND STANDARD EQUIPMENT LIST

LOA	50.33' (15.34 m)	Waste	22.5 g (86 L)
LWL	37.24' (11.35 m)	Engine	Volvo D2 75HP
Beam	13.65' (4.16 m)	Sleeps	4
Draft	7.3' (2.22 m)	Rig	Sloop
Underbody	Keel	I	65.58' (19.99 m)
Designer	Ted Fontaine	J	17.23' (5.28 m)
Displacement	28,406 lbs (12,885 kg)	P	62.99' (19.20 m)
Ballast	11,354 lbs (5,150 kg)	E	31.30' (9.54 m)
Ballast ratio	40%	115% Fore triangle	641 sq. ft (59.5 sq m)
Fuel	55 G (208 L)	Mainsail area	743 sq. ft. (69 sq m)
Fresh water	160 g (600 L)	Total sail area	1384 sq. ft. (128.6 sq m)

STANDARD EQUIPMENT INCLUDES:

- Retractable *Sidepower* 8.4 HP bowthruster operated by foot buttons at base of steering pedestal
- *Simrad* AP28 autopilot interfaced with radar and GPS
- Carbon fiber mast and boom with in-boom mainsail furling
- Hydraulic mainsheet controls operated by foot buttons at helmsman's feet
- *Reckman* electric jib furler
- *Garmin* 5208 GPS touch-screen plotter with radar overlay
- Two *B&G* Hydra 3000 graphic function displays
- *Icom* ICM502 VHF with second command mic recessed in cockpit
- *Lewmar* V3 electric stainless steel gypsy windlass
- Four *Lewmar* 2-speed electric winches
- Six *Lifeline* house bank batteries, 1530 Amp hrs total
- Natural teak decks with flush hatches for lazarette, anchor locker and forepeak
- Varnished teak cap rail, cockpit coaming, sheerstrake
- *CruisAir* 16,000 BTU air conditioning
- Raised and fielded panels on all interior doors and drawers
- Fresh water deck shower, folding swim ladder, gas grill

STRUCTURAL

- Hull:** Composite construction using Airex foam in the topsides with solid laminate hull bottom using vinylester resin to minimize print-through. Reinforcements are hand laid, stitched and knitted multiaxial E glass fabrics with carbon fiber in high load areas. Bulkheads are marine-grade plywood laminated into the hull. All cores are fixed using vinylester adhesive.
- Two molded custom consoles for hydraulics, sail controls and engine instruments.
Molded recessed sheerstrake.
Finished with owner's choice of standard *Awl Grip* marine paint colors.
- Deck:** Composite construction using Airex foam with extra high density core being used in way of all fittings. Reinforcements are hand laid, stitched and knitted multiaxial E glass fabrics with isothalic polyester resin.

DECK AND DECK HARDWARE

Deck:	Natural teak, blind fastened teak decks. All vertical surfaces finished with glossy gelcoat, cabin house top in <i>Awlgrip</i> nonskid, color Moondust.
Cap Rail:	Varnished teak.
Sheerstrake:	Recessed, varnished teak sheerstrake.
Anchor Locker:	Molded into foredeck with flush, hinged hatch top. Anchor roller, self launching, with 45 lb. CQR anchor, 80m of 10mm chain. Salt water anchor wash system in anchor locker.
Windlass:	<i>Lewmar</i> V3 electric stainless steel anchor windlass with two foot buttons and a remote control.
Chocks:	Custom cast stainless steel: two quarter chocks, two midships chocks, two bow chocks big enough to accommodate bulky mooring lines.
Cleats:	Eight <i>Attwood</i> flush mounted retractable mooring cleats with 4-bolt bases.
Nosing:	Varnished teak.
Ports:	Six custom fixed tinted glass elliptical ports in cabin trunk.
Winches:	Two electric <i>Harken</i> 2-speed self-tailing primary winches and two electric <i>Harken</i> 2-speed self-tailing halyard/centerboard/mainsheet winches. All winch buttons are recessed stainless steel <i>Antal</i> hardware. Two <i>Harken</i> lightweight 250mm lock-in handles with ball grips.
Hardware:	<i>Antal</i> winch buttons, radiused genoa T-track, genoa cars and sliders, organizers, screw-in padeyes, stoppers, silver anodized sheaves.
Hatches:	Three custom natural teak deck hatches: lazarette, foredeck, and anchor locker. Four custom stainless steel hatches with glass over main salon and forward cabin, flush glass hatch over forward berth. Varnished teak companionway sliding hatch with teak storm hood, removable varnished teak drop boards with lockable clasp, and custom storage bins. Four hinged stainless steel <i>Manship</i> hatches under cockpit settees, two for storage, two for engine access.
Ensign:	5' varnished teak flag staff and 3' x 5' US yacht ensign commissioning flag. Stainless steel cap rail mounted flag socket.
Accessories:	Four custom 12" x 24" line bins for halyard/sheet tails and four custom drink holders in cockpit all with polished stainless steel trim and lining.
Cockpit sole:	Teak deck on cockpit sole with custom angled helmsman floor.
Sheet stoppers:	Main halyard, centerboard, preventer to starboard. Main furl, MPS halyard, topping lift to port. Using <i>Antal</i> sheet stoppers and passing through <i>Antal</i> triple deck block organizers.

EXTERIOR

Trim:	Varnished teak cockpit coaming cap, 6" wide. Varnished teak cabin top nosing. Varnished teak cap rail. Four varnished teak console tops. Varnished teak framed companionway sliding top with stainless rails. Varnished teak cockpit seat fiddles.
Seating:	Molded cockpit seats finished with glossy gelcoat. Port and starboard facing settees in cockpit, forward facing settee behind steering wheel, all with double angle back rests for ergonomic comfort. All settees come with custom bottom and backrest cushions, 4" total thickness. All cushions upholstered in owner's choice of <i>Perennials</i> or equivalent fabric (\$100/yard allowance).
Cockpit Table:	Custom varnished teak drop leaf table. Table houses Garmin GPS plotter, 12V outlet, and insulated, drained cold beverage box with custom varnished teak covers. Stainless steel legs.
Steering Wheel:	48" stainless steel wheel with stainless steel rim and elk hide cover.
Pedestal:	Classic steering pedestal with thru-shaft break, stainless steel Constellation binnacle and stainless steel guard/grabrail.
Stowage:	Storage areas under port and starboard settees. Two custom 12x24" stainless steel rimmed sheet bins, one each port and starboard by helm.

Two custom 12 x 24" stainless steel rimmed bins, one each port and starboard by companionway for halyard / sheet storage at base of each winch.

Scuppers: Custom stainless steel design, four in cockpit, four on deck, all with direct overboard drainage.

INTERIOR

Interior Finish: Gloss varnished teak veneer and painted white raised panel detail on fore and aft joinery and bulkheads. Forward bulkhead with raised panel, varnished teak or painted white. Hull ceilings painted white v-groove. Solid teak with satin finish for interior trim, locker door and drawer frames and corner posts.

Overhead: Painted white v-groove overhead.

Soles: Varnished teak with black resin inlay.

Locker Doors: Framed edges with solid, raised and fielded panel teak with satin finish varnish. Port side forward locker cedar lined with lift out bottom for hanging locker.

Drawers: Solid raised and fielded panel teak with lift and pull drawer slides and custom cast bin pulls.

Table: Solid teak drop leaf table in main salon with drawers on aft end.

Countertops: *Corian* or *Silestone*, in owner's choice of colors with radiused edges at fascia and teak fiddles.

Sinks: Stainless steel under hung sink in galley; *Corian* sink in head.

Faucets: *Perrin and Rowe* wall-mount faucet in galley; *Grohe* cross-handle mixer tap in head.

Shower: *Grohe* hand-held shower unit mounted on head bulkhead.

Drainage: Head sole varnished teak and black resin with edge drain to sump and direct overboard discharge pump.

Fixtures: Towel bar, soap dish, toilet paper holder, toilet brush, and tumbler holder.

Microwave: Mounted on teak shelf in galley locker.

Coffee Maker: *Keurig* gourmet one-cup brewing system in galley locker with pull-out teak shelf.

Refrigerator: 12V electric fridge with removable shelving and bottle storage.

Stove: *Force 10* stove and oven with galley counter cover plate.

Dish storage: Custom storage of owner's supplied dishes, with pull-out teak shelf.

Garbage: Custom over-sized bin in pull-out locker under galley sink.

Head: Satin varnished teak carcasses, with solid raised panel locker doors. Full length varnished teak framed mirror on back of door. 12V electric fresh water toilet.

Shower: Large stall shower with glass door, varnished teak sole with perimeter drain and enclosed hanging wet locker.

Berths: Double centerline berth in forward cabin with 5" thick cushion. Salon settees can be made to pull out for additional berths. Stowage shelves and lockers adjacent to berths and above settees. Zip-on bed cover, sheets, mattress pad, and pillow cases all owner's choice of fabric.

Fabric: All upholstery to be owner's choice. Standard fabric allowance of \$100/yard for following: cockpit cushions, salon settees, forward berth, forward settees, and 22"x22" throw pillows.

MECHANICAL

Engine: *Volvo* 75 HP 4-stroke sail drive engine. Fresh water cooling, *Racor* filter, and 2 alternators. Oil change pump included on engine.

Autopilot: *Simrad* AP28 auto pilot interfaced with radar and GPS.

Bowthruster: Retractable *Sidepower* 8.4 HP bowthruster operated by foot buttons at base of steering pedestal.

Gauges: Custom stainless steel recessed engine instrument panel with *Volvo* gauges for tachometer, oil pressure, fuel level and tank level.

Gearshift: *Morse* type single-control gearshift and throttle near helmsman.

Fuel Tank: 55 gallon welded translucent polyethylene fuel tank with inspection/clean-out port located under cockpit seat and gauge on instrument panel.

Filter: *Racor* fuel filter. One spare supplied if optional generator is purchased.

Vents: Vent line with *Racor* LG100 vent spillage filters.

Steering: *Lewmar/Whitlock* drag and link steering system.

Rudder: Balanced, elliptical spade rudder constructed with uni-directional glass rovings and 4" diameter carbon fiber shaft with roller type rudder bearings.
Air conditioning: 120V, 16,000 BTU *CruisAir* system with vents on either side of forward berth.
Bilge Pumps: Two 12V automatic *Jabco* bilge pumps and one cockpit operated *Whale* manual pump.

ELECTRICAL

House Batteries: Six Lifeline 255 Amp Hr 8DL batteries arranged in two banks, 1530 Amp Hrs total.
Starting Battery: Two 12V DC 950 CCA *Lifeline* batteries.
Distribution: Two custom DC back lit panels with circuit breakers and battery condition meter.
Alternators: Engine supplied standard alternator to charge starting bank, additional *Balmar* 12V DC 140 amp alternator supplied to charge house bank.
Shore Power: 125V / 30 amp shore power connection in cockpit with 50' cord.
Battery Switch: Battery bank switch with DC main breaker.
Inverter: 12V DC / 120V AC, 3000W, *Xantrex ProSine 3.0* inverter to be switched on the main AC electrical panel. Inverter shall power microwave and 110V outlets.
Interior Lights: Six stainless steel *Ocean* reading lights, eight *Imtra* dome lights, four courtesy lights located in aft and forward staterooms, salon, galley and head. Centerline dome light with red/white selection switch in main cabin.
Engine room will have two *Imtra* flat utility lights.
Exterior Lights: Masthead tri-color and anchor, bow, stern, spreaders, foredeck, and two boom lights.
12V Outlets: Two 12V plugs – one in cockpit table, one in electrical locker.
110V Outlets: Six 110V plugs: galley, head, forward cabin, starboard side salon, and engine room.
Fog horn: Stainless steel, mounted underneath radar bracket with on/off/auto switch at helm.

PLUMBING

Water system: Hot and cold pressure water system to galley, head, shower, deck shower.
Water Tank: 160 gallons of water capacity in two independently valved tanks.
Water Gauges: Gauge for each water tank mounted in overhead galley locker.
Water pump: *Headhunter Excaliber* self-priming water pump.
Water Heater: *Force 10*, 6-gallon tank to be powered by AC electrical heating element and from re-circulating through the main engine.
Toilet: *Tecma* Silence Short electric fresh water toilet with overboard/holding tank discharge. Holding tank with overboard drain/pump out discharge.
Bilge Pump: One automatic 12V DC bilge pump mounted in the engine room. Pump will discharge overboard at the waterline with vented loops. One manual *Whale* bilge pump operated from the cockpit.
Sump Pump: One automatic 12V DC bilge pump with direct overboard discharge.
Thru-hulls: *Forespar* flush-mounted sea cocks below the waterline for engine, head, galley, air con and scuppers with double-clamped hoses.

SPARS AND RIGGING

Mast: Aluminum mast, *Awlgrip* cream finish with two sets of alloy airfoil spreaders with lights, steaming light, internal masthead wire conduit, stainless steel gooseneck, vang lugs, and halyard attachment step. Mainsail track for fully-battened mainsail and stainless steel track for jib halyard. Two flag halyards on lower spreaders.
Boom: In-boom furling aluminum boom, *Awlgrip* cream finish with fittings for single reef lines, vang lug, and topping lift/mainsheet bale. One light with dimmers at mid-boom and one at boom end. Hydraulic mainsheet control at helmsman's feet.
Furler: *Reckmann* electric genoa furler. Recessed foot buttons on either side of helm station.
Mast Collar: Custom stainless steel mast collar with integral turning blocks for all lines.
Standing Rig: Rod rigging with *Navtec* turnbuckles and stainless steel covers.
Running Rig: All running rigging to be custom cream colored spectra or polyester braided lines. Stainless steel genoa halyard adjustment on mast track.
Chain Plates: Custom stainless steel chainplates, stem head, and backstay tang.
Boom Vang: Polished stainless steel hydraulic *Navtec* vang with braided stainless steel hydraulic hose.
Backstay: Polished stainless steel hydraulic *Navtec* backstay with braided stainless steel hose.
Genoa Tracks: Two 5' x 1.25" *Antal* stainless steel T-tracks with two genoa lead blocks.

NAVIGATION

Compass:	Classic stainless steel constellation binnacle.
GPS:	<i>Garmin 5208</i> touch screen with plotter and custom hinged stainless steel housing in cockpit table.
Radar:	<i>Garmin 5208</i> radar overlay with 18" dome, painted to match rig with custom stainless steel guard and bracket.
B&Gs:	Two <i>B&G Hydra 3000</i> graphic function displays with masthead wind sensor and depth, speed, and temperature transducers.
Radio:	<i>Icom IC-M504</i> VHF radio located in electrical locker and <i>Icom</i> hand-held control mic with recessed mount in cockpit.

PAINT AND FINISH

Hull:	Owner's choice of standard <i>Awlgrip</i> colors.
Deck:	Owner's choice of standard gelcoat colors.
Bottom:	Epoxy primed, painted with owner's choice of anti-fouling color.
Boot Stripe:	Single stripe, painted with owner's choice of <i>Awlgrip</i> color.
Cove Stripe:	Molded, painted with gold.
Exterior Teak:	Minimum of nine coats gloss finish varnish.
Interior Teak:	Gloss varnish.
Boat Name:	Name and hail port painted on transom.

OUTFITTING

Custom dodger with zip-in side curtains, recessed stainless steel tracks and elkhide covered grabrail.
Custom flush stainless steel jib sheet chafe plates in cockpit coaming.
Varnished teak wine glass and bottle holders on undersides of cockpit table lids.
Magma stainless steel gas grill with adjustable custom holder for flag socket.
Hand-held fresh water shower on aft deck with flush stainless steel cover plate and hot/cold mixer tap.
Folding stainless steel swim ladder.
Bug screens for main salon hatch and companionway.
Four 40' double braid dock lines.
Four 8" x 20" fenders with double braid lines and fleece covers.
Four leather and lambskin fender holders custom fit for caprail.
Custom spruce fenderboard with black braided lines and engraved logo.
Boat hook mounted in foredeck hatch.
One engine spares kit and metric tool kit with necessities provided.
Stainless steel bars in cockpit lockers for hanging extra lines, etc.
False bottom inside port cockpit locker for additional storage and easier access to small items.
Life jackets in storage bag.
Four fire extinguishers mounted throughout boat.
EPRIB – mounted underneath lazarette hatch.
Flare kit with storage box.
Hose, bucket, brushes and all cleaning supplies.

SAILS

North Sails NL SR 6.5 oz. fully battened mainsail.
North Sails NL SR 6.5 oz. 115% genoa.

COMMISSIONING

Boat cleaned, tested and delivered in the water in Portsmouth, RI.
Full owner's orientation in Portsmouth, RI.

DOCUMENTATION

Friendship 50 Owner's Manual, all equipment manuals, construction drawings and all systems schematics.