

DETLING 51

GENERAL SPECIFICATIONS AND STANDARD EQUIPMENT LIST

L.O.A.	51'4"	DISPLACEMENT	32,000 lbs.
L.W.L.	44'9"	FUEL CAPACITY	425 gallons
BEAM	14'6"	WATER CAPACITY	300 gallons
DRAFT	3'6"	HOLDING CAPACITY	125 gallons
		ENGINES	Cummins 6CTA8.3-M4 (480CE)

DESIGNED BY: C. Raymond Hunt & Associates

BUILT BY: Dettling Yacht Company

STANDARD EQUIPMENT:

CONSTRUCTION

- Standard yacht is an Express Cruiser with hardtop extending the full length of the aft deck, plus fully enclosed, heated and air-conditioned bridge with Forward Plan C-Aft Plan 2 arrangement
- Hand laid molded fiberglass hull and deck with Airex, Core-cell and Divinycell vacuum bagged cores – all vinylester resins throughout (hull and deck)
- Molded tunnels for prop protection and reduced draft
- Integral molded spray rail
- Solid fiberglass grounding keel and chines
- Hull to deck joint all solid glass
- ¾" marine grade plywood structural bulkheads
- Double engine room bulkhead (two ¾" plywood, 3" apart with sound insulation between)
- Core relieved in high stress areas and for thru hulls
- Molded integral rubrail with stainless steel striker
- Entire interior bonded to hull and deck throughout for quietness and strength
- All windows recessed
- All tanks integral fiberglass, constructed with vinylester resins and West system epoxy, with stainless steel inspection ports accessing all compartments
- Awlgrip painted hull and deck

MECHANICAL

- Walker Airseps
- Engine alarms for engine temperature and oil pressure
- Ball type valves, stainless steel, Apollo
- Bilge pumps, electric, (3) Rule 3700 automatic and (4) Rule 800 automatic with pump running indicator lights at bridge control station and main electrical panel
- Exhaust blowers, galley and heads
- Engine controls, single lever, Mathers Micro Commander
- Fresh water pressure system and gauges, dual Shurflo Extreme Series Smart Sensor Pumps
- Fresh water tanks, sanitized fiberglass

- Fuel filters with water separators, Racor 75/1000 Max, 2 sets (4 filters); Racor 500 (1)
- Fuel lines, flexible aircraft type, Parker-Hannefin
- Fuel tanks (2) reinforced fiberglass with gauges
- Trim tabs, Bennett (4)
- Fuel fill hoses 2", both located starboard side beside pump-out fitting
- Holding tank, reinforced fiberglass with monitor; electric overboard pump-out for use where legal; fresh water flush system to clean overboard pump and lines
- Water heaters, stainless steel (3), Atlantic Marine (one 6 gallon and two 4 gallon heaters)
- Hydraulic steering, Hynautic
- Insulation, acoustical and thermal throughout
- Refrigeration system, Sea Frost, holding plate type, driven by two compressors, one ¾ hp water cooled, one ¼ hp air cooled, either of which will carry refrigerator and freezer alone, both 110 V.
- Electric heads, Atlantes by Raritan, operate on either fresh or salt water
- Mufflers, waterlift type, Vernalift
- Engine raw water intake seacocks (Groco) with emergency position for pumping bilges with main engines
- Propellers, Nibral, 5 blade
- Propeller shafts, Aquamet 22 stainless steel 2", reversible
- Propeller pullers and shaft coupling pullers
- Rudders, manganese bronze transom hung wedge shape
- Seacocks and thru-hulls, all bronze
- Seawater strainers oversized for main engines
- Shaft logs, Norscot Shaft Seal, dripless type, ATF lubricated
- Struts, bronze
- Sump tanks (2), with automatic primary and backup pumps
- Vibration isolating mounts on engines, Barry Controls of England
- Fuel, water, and holding tank monitoring system, Hart Tank Tender
- All hoses Shields or equal
- All hose clamps 316 stainless steel, ABA
- Air conditioning, two 16,000 btu and one 7,000 btu reverse cycle heat pumps, Cruisair
- Mathers Micro Commander (MMC) electronic engine controls, 3 stations
- Automatic halon systems – Fireboy
- Six hand-held fire extinguishers
- Fuel transfer system with electric pump
- Stainless steel (316) transom mounted exhaust ports, 8"
- Diamond plate aluminum sole in engine room finished with white Awlgrip paint
- Engine room fresh water hose bib
- Entire engine room finished with white Awlgrip paint
- Preluber and oil change systems for each engine
- Transmissions, ZF 302 VLD combination reverse, reduction, and V drive
- Backup holding tank level indicator, Sealand

ELECTRICAL

- 240V AC system distribution panel and meters, Bass
- 120V AC system distribution panel and meters, Bass
- 12V DC system distribution panel and meters, Bass
- Separate auxiliary panels for bilge pump system and for electronics
- Alternators (3), (2 engine start 130A, 1 house 210A on starboard engine)
- Batteries, (5) 8-D Absorbed Glass Mat, arranged in 3 banks plus generator start battery

- Momentary paralleling solenoids to parallel engine start batteries, and/or to parallel engine start batteries with house batteries, and/or to parallel generator start battery with house batteries
- Permanent paralleling switch between house batteries and either engine start battery to allow charging of both banks from one alternator in the event of failure of either alternator
- Permanent paralleling switch between engine start batteries to allow charging of both banks from one alternator in the event of alternator failure
- Bonded electrical system with ground plates (2) Wonderbar Marine Mark VI plates
- Coded wiring system
- Engine room lights (12) stainless steel
- Ground fault protected 120V AC circuits
- Lighting 12V/120V throughout
- Navigation lights, Aqua-Signal
- Tinned wire throughout
- Vapor proof battery switches
- Electrical outlet in engine room (120V)
- 13.5 KW generator, Onan, with remote panel
- Manual cablemaster with 85' 50A/240V shore power cable, permanently installed
- Trace SW2512 inverter/charger by Xantrex, 2500w true sine wave inverter/150 amp battery charger with remote panel
- Balmar 210 amp alternator on starboard engine for house batteries
- Electric holding tank pump, Sealand
- Separate battery charger, 20A Professional Mariner, for engine and generator batteries only
- Shore power adapter (enables use of 110V 30 amp input)
- Phone and TV cables, 25' and 50'
- Phone and TV inlets both forward and aft
- Separate battery (12V) with separate dedicated battery charger located in bridge and wired to separate breaker panel for switching one VHF radio, the Datamarine depth sounder and the Northstar 6000i GPS/plotter from house power to emergency battery power

AFT DECK

- Teak high-low table opens to seat six
- Courtesy boarding light on transom
- Stainless steel overhead lights
- Recessed drains and scuppers
- Teak sole – 11/16" solid teak
- Removable engine hatches bolted in place provide 8' square clear opening for easy engine removal
- Triple stainless steel hand rails with 3 gates aft
- Built-in seat with cushions and footrest
- Storage compartments (2) for lines & fenders
- Engine room access hatch for mechanic (owner's access is through aft stateroom)
- Polyplaner overhead stereo speakers
- Large storage locker in sole for deck chairs, etc.
- Electrical outlet (120V)
- Fresh water outlet
- Swim platform, fiberglass with stainless steel brackets
- Swim ladder, stainless steel swing-down type, permanently attached
- Boarding ladder, stainless steel, from swim platform to aft deck
- Stainless grab rails at cockpit entry
- Chairs, 4 solid teak and brass, director's type

BRIDGE

- Ritchie compass (5")
- Intercom system, 5 stations, Newmar
- Upholstered bench seat for four adults
- Single lever controls
- Two overhead red/white lights, 2 wall mount reading lights
- Edson 26" stainless steel helm wheel with teak trim
- Instrument console with full engine instrumentation, electronics, and annunciator panel to show water pump, bilge pumps, sump pumps, generator running and engine room lights
- Second complete control station on canopy top includes engine controls, autopilot control, depth, speed and heading indicators, steering control, spotlight control, remote windlass control, and windscreen
- Sliding windows (6) UV block tempered laminated glass with screens
- Full height door to aft deck with fixed window
- Exalto windshield wipers and washers, with pantograph armsets
- Varnished teak interior, 6 coats, hand rubbed
- Teak parquet sole
- Windshield ventilation portlights (6), Bomar, with screens
- Overhead day/night lighting, chart light and reading lights (2)
- Two 120V outlets
- Chart drawer, binocular storage compartment, 3 utility drawers
- One telephone jack
- Two stereo speakers
- Separate Cruisair reverse cycle air conditioning system
- Third complete stand up control station on port side of bridge includes engine controls and autopilot control with steering

SALOON

- Bookcase
- 5 Electric outlets
- Sharp 20" LCD flat screen TV
- Zenith DVD player/VCR recorder
- 4 stereo speakers
- 5 wall mounted lights, 5 overhead lights, 3 lamps
- Hi-low table – opens to seat six
- Carpet throughout, Karastan
- Upholstered L-shaped settee
- 2 swivel chairs
- UV block tempered laminated windows with mirror-polished stainless steel trim rings
- Varnished teak interior, 6 coats, hand rubbed
- Pass-over counter from galley
- 12V/120V lighting throughout
- Curved companionway steps and curved teak handrail
- 4 opening hatches (stainless steel) with screens
- Valances for window treatment throughout
- 2 recessed desks with drop-down work surfaces and fluorescent lighting
- 2 cupboards
- 8 bins
- Separate 2-drawer cabinet for bottle and glass storage
- Electrical control center at eye-level with Lexan doors
- 2 under sole storage compartments
- 4-drawer table between chairs

GALLEY

- Intercom
- Holding plate refrigerator with separate freezer, Sea Frost
- Icemaker, Raritan
- Microwave
- Garbage disposal
- Separate drinking water faucet with water supply triple processed as follows:
Village Marine – carbon block filter to remove chlorine
Aqua Pure – charcoal filter for taste and to remove odors, dirt and rust
Seagull – for taste and removal of harmful contaminants and impurities
- Force 10 stainless steel electric 3-burner stove, 240V
- Double Moen stainless steel sink
- Trash compartment
- Corian countertops
- Exhaust blower at stove
- Electric outlets (3) 120V
- Single lever hot/cold faucet plus hand spray
- Storage cabinets, drawers and bins
- Teak parquet sole
- Lighting in refrigerator, freezer and cabinets
- Recessed lighting above counter top
- Glass racks, wine glass storage, liquor cabinet
- All vertical surfaces off-white matte Formica; all trim, drawers, etc. varnished teak
- Numerous drawers, cabinets and bins
- Under sole storage (2 compartments)

AFT STATEROOM AND HEAD

- Full-size washer and separate 220V dryer
- Electric head, fresh or salt, Atlantes by Raritan
- Ceramic tile shower and head sole
- 4 opening portlights, stainless steel, with screens
- Enclosed head with separate shower stall
- Carpet throughout, Karastan
- Hanging locker, 7 drawers and 4 bins
- Queen berth, 5” foam mattress, storage under
- Intercom
- Bed reading lights, (2); 4 wall mount and 5 overhead lights
- Bedside utility shelf
- Finish – vertical surfaces off-white matte Formica with varnished teak trim
- Large storage locker for folding bicycles, etc.
- Door for owner’s access to engine room
- Separate vanity with sink outside head and shower, Corian countertop
- Exhaust fan in head
- Electric outlet in cabinet for charging accessories

OWNER'S STATEROOM

- Walk-around queen berth, 5" foam mattress
- Carpeting throughout, Karastan
- Hanging lockers (2)
- Drawers under berth (8)
- Dresser with 4 drop-down bins and 2 drawers
- Small seat with cushion (shoe storage under)
- 1 stainless steel hatch with screen
- 2 bookcases
- Berth reading lights
- Full-length mirror
- Shoe storage (3 lockers)
- Special built-in ventilation system to introduce outside fresh air through a vent in headboard, in any weather condition
- Air conditioning controls, intercom, telephone, central light switching and outside air vent controls all located at owner's bed
- Extensive storage under berth, large enough for four golf bags
- Intercom
- Night tables (2), each with 2 drawers and bins
- TV shelf
- 4 opening portlights, stainless steel, with screens
- Extensive under sole storage
- 3 lamps with central switching, 3 overhead lights, 2 wall mount reading lights

OWNER'S HEAD

- Electric outlet in cabinet for charging accessories
- Clothes hamper
- Ceramic tile shower sole and shower seat
- 2 vanities, one with mirror
- Stall shower with cupboards
- 2 opening hatches, stainless steel
- 2 opening portlights, stainless steel
- Exhaust fan
- Ceramic sink
- Electrical head, fresh or salt, Atlantes by Raritan
- Teak parquet sole
- Tilt-out waste bin
- All vertical surfaces off-white matte Formica; all trim varnished teak
- Corian countertops
- 120V outlets
- 2 drawers
- 8 cupboards, extensive linen and towel storage
- Intercom
- One lamp, 3 overhead lights, 1 wall mounted light, recessed fluorescent lighting over sink

INTERIOR APPOINTMENTS AND ACCESSORIES

- 2 swivel chairs with upholstered seats and backs
- Carpeting and teak parquet soles
- Bed coverlets and pillow shams
- Draperies, thermal lined
- Fitted sheets (3 sets owner, 2 sets guest)
- Towels (6 sets owners, 4 sets guest)
- Corelle dinnerware for 8
- Stainless flatware for 8
- Vacuum cleaner
- Toaster oven
- Full complement of pots and pans
- Miscellaneous galley utensils
- Sound deadening fabric covered foam overhead throughout, installed in removable panels
- Water glasses (both glass and insulated plastic)
- Lamps (7)

DECK

- Hand laid integral fiberglass rubrail
- Solid half oval stainless steel striker, (1-1/4") on rubrail
- All exterior fittings stainless steel
- Full stainless steel handrails, stanchions and gates (3 aft, 2 mid gates)
- Stainless steel triple handrails in cockpit
- Navigation lights – stainless steel bow, stern and side lights, Aqua Signal anchor and steaming lights
- Chain locker
- Mast – hinged to reduce bridge clearance; mast crutch
- 9 opening portlights, stainless steel
- 9 opening hatches, stainless steel
- 14 stainless steel cleats 12" with stainless steel chafe strips
- Stainless steel anchor chute with bronze roller
- All internal deck drains
- Anchor windlass, electric, Maxwell 2200
- Forward and aft deck lights mounted on mast
- Searchlights (2), RCL 100B; with remote by ACR electronics
- Air horn, Kahlenberg, with engine room mounted compressor
- Quick release antenna mounts for easy lowering from side deck
- Foredeck hatches (2) stainless steel, to access shelved forepeak storage areas
- All-weather ventilation system built into forepeak which drains rain overboard and distributes air aft to living quarters
- Stainless steel handrails (4) on cabin top
- Fresh water outlets forward and aft
- Hot/cold shower aft deck
- 66# Bruce anchor
- 200' hi-tensile Acco chain (3/8")
- Anchor and chain wash system with 3100 GPH pump with 1-1/2" thru hull intake
- Bell
- 6 stainless steel bow chocks
- Fenders (6), docklines (8), boathooks (2), deck brushes (2), buckets (2), hose, 50' (2), hose, 25' (2)

- 10 life preservers
- Switlik 6 man coastal liferaft, canister type mounted on foredeck
- Flag, 3 x 5 (1)
- Flagpoles (2) plus pigstick for mast flag
- Stainless steel step to gain access to bridge canopy top
- Integral drip pan with overboard drain between anchor roller and windlass
- Ideal bronze chrome plated chain stopper
- Bow mounted halogen anchoring and docking light
- Stainless steel bow eye at waterline for anchor tag line
- Marquipt Lo-Boy davit on extended hardtop
- Sidepower SP75T bow thruster
- Dinghy chocks, custom aluminum, Awlgripped
- Boss Boats Yachtsman 10' fiberglass dinghy with bench seat, with 15 hp Yamaha outboard motor, lifting rig and cover
- Hardtop sliding hatches (2), one 24" x 24", one 40" x 40"
- Hardtop stainless handrails (4)
- Covers for:
 - Sliding hatches on bridge (2)
 - Bridge side windows, port & starboard
 - Bridge windshield
 - Saloon windows, port and starboard
 - Aft deck table
 - Dinghy

ELECTRONICS

- Simrad Robertson AP2005 RPU160 J300X rate auto pilot
- Simrad Robertson AP22 autopilot, second station
- Simrad Robertson AP22 autopilot, third station
- Simrad Robertson RC25 rate fluxgate compass
- Simrad Robertson J300 junction box
- Simrad Robertson IS15 expander box
- Simrad Robertson U3692 high speed transducer
- Simrad Robertson IS15 wind unit transducer
- Simrad Robertson IS15 instrument displays: multi head (5), compass (2), depth/speed/temp combination (1), wind (1)
- Simrad Robertson U3562 4" depth transducer
- Airmar Smart Sensor depth/speed transducer
- Furuno 1932MK2 4KW 48 NM, 4' open array antenna, 10" display radar
- Standard Horizon CP175C differential GPS/color chart plotter with combination antenna
- Northstar 6000i chart plotter/GPS, 10.4"
- Northstar 6000i chart plotter/GPS, 6.4"
- Brookes & Gatehouse NET-DPDU-SB depth sounder (one of three depth finders)
- Icom IC-M502 DSC101 VHF radio
- Icom IC-M602 with 25w hailer VHF radio
- Loudhailer connected to Icom M602 VHF radio
- Glomex omnidirectional television antenna
- Shakespeare Galaxy antennas throughout
- ACR RapidFix 406 EPIRB with GPS interface

Specifications effective 6/15/04.

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