



Bering Yachts

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BERING B80-004 STEEL TRAWLER

Specifications

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1. Dimensions	
Length Overall (LOA)	81' 3" (24.78 m)
Length Waterline	74' 2" (22.6 m)
Beam Overall	25' 8" (7.85 m)
Height (Waterline to top of the mast)	40' (12 m)
Draft (with full fuel load)	7' 7" (2.3 m)
Displacement Full Load	485,000 lbs. (220 metric tons)
Fuel Capacity	12,885 gal. (48,790 L)
Water Capacity	840 gal. (3,170 L)
Cruise Speed	8 knots
Maximum Speed	10.5 knots
Range at 8 knots	7,500+ nautical miles

2. Hull
Hull and superstructure constructed using A-36 marine grade steel. Bottom plates and integrated tanks sides - 10mm. Hull sides - 8 mm. Superstructure - 5(4) mm.
The hull is divided by five watertight bulkheads creating six compartments.
Flybridge arch, mast and furniture (on flybridge and on cockpit) are fiberglass.
The hull below waterline is covered with three layers of black antifouling paint.
Hull above the waterline, deck and superstructure painted with Alexseal Dark Gray .
Yacht quality fairing above the waterline with Alexseal Whisper Gray paint finish.
All bulkheads are reinforced steel construction, with sound and heat insulation per Bering Yachts
All the interior steel surfaces of the vessel are treated with epoxy primer after thorough surface preparation.
Appropriate zinc plates installed for galvanic protection.

3. Engines

Two **Cummins** QSM11 350 HP @ 1800 rpm continuous duty rated, raw water, heat exchanger cooled with wet exhaust. 24V electrical. Combined total power of 700 HP.

Glendinning EEC4 electronic engine control in pilothouse.

(2) **Mercury** key switch for digital throttle and shift engines.

(2) **Cummins** Dual 7" color engine displays in pilothouse.

Main engines installed on soft engine mounts model 1600-3 with weight adjusters.

(2) **ZF** W350-1 marine transmissions with 3.95:1 reduction gear. Includes live PTO and load sense pump (130CCM, SAE-CC).

(2) **Seatorque** ST-300 SAE shafts.

(2) **ZF** 5-blade 52/52" NiBrAl propellers.

(2) Sea water intake with **Groco** 2½" strainers for engines.

Reverso GP-3014-24 (4 valves 24V) oil change system for engines.

Reverso GP-3012-24 (2 valves 24V) oil change system for gear boxes.

(2) **Centek** vertical combo-sep mufflers with **De Angelo** exhaust mixers. Exhaust outlets on port and starboard sides of the hull.

4. Steering system

(2) 14 square foot air foil steel rudders with 4" diameter steel rudder stock mounted on rudder shoe bearings. Rudder posts in lazarette above waterline and attach to bronze rudder arms.

Kobelt hydraulic power steering system - model 7085.

1.5 kNm steering gear torque.

740 PSI operating pressure.

Number of wheel turns power: 4.5 - 4.6.

Number of wheel turns manual: 28-84.

Hydraulic power unit motor pump.

Aluminum hydraulic oil reservoir and stainless steel manifold with valves.

3.5" cylinder 10" stroke and 3.5" servo cylinder 10" stroke.

Emergency tiller in the lazarette.

Zinc anodes on rudders to ensure galvanic corrosion protection.

5. Mooring system

(2) 180Kg N-type **Pool** stainless steel anchors. Fitted using 316 stainless steel pockets - port and starboard.

Divided chain locker with fresh water flush system, drains overboard.

400 Feet of 16mm zinc coated anchor chain per side. Rated for high working loads.

316 polished stainless steel bow protection plate.

(2) **Maxwell** VWC4500 series hydraulic winches with on deck foot switches and remote controls at pilothouse. Digital chain counters with displays in pilothouse. Dual chain stoppers with tensioners. Stainless steel, grooved bow rollers.

(3) heavy duty bollards installed on bow. (4) heavy duty bollards mounted on the aft deck. Two stainless steel hawse pipes with horn cleats mounted amidship port and starboard. All mooring components are polished stainless steel with chafe guards.

(2) **Muir** V3500 (2,400W 24V) electric rope capstans mounted in cockpit.

6. Electrical system

a. Mainfeatures

Entire AC and DC electrical system designed and installed in compliance with **CE** standard.

50 Hz 220/380V AC power standard.

24V DC power standard.

24/12V DC electronics power.

Victron Orion 24/12-25A DC-DC converter located in pilothouse.

Primary distribution 230V/380V AC and 24 V DC electrical panels, inverters, battery chargers, batteries and battery management panels are located in the engine room.

Secondary 220V AC, 24V and 12V DC panels are located in the pilothouse.

All wires are labeled at each end.

All wire connections are properly insulated.

All electrical hardware is bonded to the hull.

Dedicated circuit breaker for each circuit.

b. Power source

GENERATORS

(2) **Onan 40QD model MDDCF 40 kW 220V/380V 50Hz** four cylinder generators enclosed in soundsheilds installed in engine room. Wet exhaust muffler with exhaust separator.

(1) **Onan 13.5QD MDKBP 13.5 kW 220/380V 50Hz** four cylinder generator enclosed in soundsheild located in lazarette. Wet exhaust muffler with exhaust separator.

(3) Sea water intake with **Groco** 1½" strainers for generators.

All three generators have digital display controls in pilothouse.

All three generators have automatic safety shutdowns with fault indicators.

(3) **Racor** 1000 fuel filters with 30 micron elements.

Reverso GP-3014-24 (4 valves 24V) oil change system for generators and engines.

SHORE POWER

Cablemaster CM-8 100 Amp 24VDC and **Cablemaster** CM-7 50 Amp 24VDC shore cord managers.

(1) 100 Amp 220V/380V 30 meter and (1) 50 Amp 220V 30 meter shore power cords in **Cablemasters**.

50 Amp and 100 Amp shore power breaker boxes.

(2) marine isolation transformers: 16 KWA/220V/50Hz and 100KWA/380V/50Hz.

BATTERIES

(19) **Vision** 4D 240 Amp and (2) **Vision** 4D 120 Amp AGM batteries, deep cycle, 12 VDC. Total capacity is 4,800 Amp Hours.

All starter batteries charged by (2) engine (80 Amps each) and (3) generator driven alternators (40 Amps each).

Electrical system status controller **Victron** VE. Net Blue Power Panel 2 (BPP2) located in pilothouse.

Victron BMV-702 battery display located in pilothouse.

Victron Phoenix charger 12/30 for charging electronics backup battery.

Victron Skylla-i 24/100 charger (230VAC/45-65Hz) for charging starting battery from generator or shorepower.

(3) **Victron** MultiPlus 5kW (24/5000/120-100 230V VE.Bus) inverter/chargers for charging house battery bank from generator or shorepower.

(2) 4D 240AH **Vision** AGM batteries for the engines start with crossover switch. Connected in series for 24 VDC.

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(2) 4D 240AH **Vision** AGM batteries for the generators start with crossover switch. Connected in series for 24 VDC.

(2) 4D 120AH **Vision** AGM batteries for 13.5 kW generator start. Connected in series for 24 VDC.

(12) 4-D 240 AH **Vision** batteries for house system.

(1) 4D 240AH **Vision** batteries for nav/com electronics located in pilothouse.

All batteries covered with fiberglass caps.

Battery cutoff switches located in the engine room.

c. Lighting system and power outlets

All interior lights are 220V AC and 24VDC LED.

Exterior lights (LED and Halogen) are waterproof to IP-67 standards.

220V AC fluorescent and 24V DC LED lights in engine room.

(8) LED underwater lights. Two mounted outboards and four mounted aft, all below the swim platform.

d. Controls and alarms

(3) **Onan** generators digital LCD displays mounted in the pilothouse dash, each with start/stop button.

Glendinning twin engine throttle control in pilothouse.

(2) **Cummins** engine 7" color monitor mounted on pilothouse dash.

Racor fuel filters have pressure gauges.

Kobelt manual hydraulic steering pump in the pilothouse.

(2) **Maxwell** Autoanchor AA710 wireless remote control and chain counter.

SidePower hydraulic bow and stern thrusters proportional control in the pilothouse.

All electric bilge pumps have manual/auto rocker switches.

Bilge pump system display panel with "ON" indicators with bilge pump and high water sensor audible

Exalto windsheild wiper control in pilothouse.

Exalto windshield washdown control in the pilothouse.

Dometic watermaker digital control panel on the electrical panel on the lower deck.

(2) **Carlisle & Finch** search light remote controls in the pilothouse.

Buell dual trumpet marine horn switch in the pilothouse.

(8) **Headhunter** analog fuel tank level gauges and (2) visual fuel gauges on each day tank.

Dometic DTM12 four-level tank monitor system for waste, graywater and freshwater tanks. Includes three sets of tank probes.

ULB-3A/F Visual water gauge on fresh water tank in cofferdam.

Fireboy FR-8000 central smoke alarm system with two monitors.

Fireboy engine room fire alarm.

7. Fire alarm and safety system

(2) **Fireboy** FR-8000 safety alarm monitors located in pilot house.

Fireboy AP65-PESD-02-TB-R smoke detector system in each room.

Fireboy CMD-4MR combination carbon monoxide (CO) in each room on lower deck.

(2)**Fireboy Xintex** automatic deployment fire suppression canisters in the engine room and lazarette.

Remote control pull handle for manual deployment of **Fireboy** system in engine room and lazarette from cockpit.

Fireboy system includes automatic shut off for engines, generators and air intake fans.

8. Bilge pump system

(12) **Johnson** 4,000 gallon/hour 24V submersible bilge pumps.

(12) **JABSCO** 38mm (1 1/2") vented loops.

Each bilge has an **Ultra SR** UPS-01 automatic high water alarm bilge pump switch installed.

Forespar marelon vented loops, MF 839-17¹/₄", on bilge pump discharge hoses.

Bilge pump system display panel with "ON" indicators with bilge pump and high water sensors audible alarms.

Desmi S80-70-275N/D02 electric self-priming centrifugal emergency bilge/fire pump. "S" motor with 3 phase 380V 50 Hz, M1-4 4,8kW.

9. Fuel system

(10) Main fuel tanks. 11,855 gallons/44,890 liters capacity.

(2) "Day Tank" fuel tanks. Total capacity 1,030 gallons/3,900 liters .

(12) 1" ventilation pipes of each tank.

HeadHunter TS-3006 and TS-3004 fuel level ten tanks monitor with SYM-XR(S) analog sensor in each fuel tank. (6) Visual fuel gauges on tanks.

HeadHunter TS-2000 fuel level sentry monitor with analog sensor **Headhunter** SYM XR in each day tank. ULB-3A/F visual fuel gauges on each day tank.

3" stainless steel fuel intake manifold with 1" steel piping.

3" stainless steel fuel outflow manifold with 1" steel piping.

Reverso aluminum fuel feed manifold with 1/2" valves and fuel hoses to each engine and generator.

Reverso FPS-210 fuel polishing and transfer system - 210 GPH, Series - 'S' Class, marine version, 7 day digital timer, 220 Volt, 50 Hz, with fuel conditioner.

Alfa-Laval MIB-303 solids retaining centrifugal separator (200 GPH capacity). Internal paring disc (clean fuel discharge pump) with electric motor 220V AC single-phase. Separate feed pump/motor 220V AC single-phase, control panel complete with VFD, pre-wired for optional alarms. (2) stainless steel flexible hoses, funnel for water addition with quick disconnect. Non-return valve, T-pipe coupling, nipple, outlet piece with pressure gauge and flex hoses. Water tank with level and seal alarm. Chrome plated hood, strainer for oil feed line. Pressure switch kit. Emergency stop box.

Desmi GP33EM 480 gallons/hour auxiliary fuel transfer pump.

Central fueling station with steel pipe connections and lines to all six main tanks.

Day tanks provide fuel feed for all engines and generators.

Cummins engines equipped with **Racor** 75/1000 dual filter/separators using 30 micron filter elements and including vacuum pressure gauges.

Onan generators equipped with **Racor** 1000 fuel filter/separators using 30 micron filter elements and including vacuum pressure gauges.

10. Freshwater system

Built-in 840 gallon / 3,170 liters fresh water tank . Steel construction with baffles and inspection plate, coated with FDA approved enamel.

Trident 1" water tank ventilation hose.

Fresh water tank includes inspection hatch, ULB-3A/F visual sight gauge, shut-off valves, and 1-1/2 " stainless steel water intake.

(2) **HeadHunter** fresh water pumps: (1) Mach 5- fresh water pump 220V 50Hz and (1) XR-124 24V. 45 PSI, 60 liters per minute. 100 liters **Headhunter** PT-102 accumulator pressure tank.

Cold water manifold with valves located in the cofferdam.

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Hot water manifold with valves located under the stairs to lower deck.

PPR color coded piping for fresh water lines.

(2) **Torrid** 40 gallon marine water heaters located in the lower deck companionway.

Spot Zero fresh water purifier model 3000 SZ3000ZWM located in engine room.

Sea Xchange 30V SX2200Z 2200 gallons/9,000 liters a day watermaker located in engine room.

11. Black and gray water systems

SeaLand DTM12 fresh water tank 3 level monitor. Monitors the level in the fresh water, gray water and black water tanks. Located in the lower deck companionway.

470 gallons/1,780 liters integrated gray water tank with enamel coated interior to seal the steel tank and includes a level indicator. (2) **Headhunter** Vortex overboard macerator pumps: 3/4 HP pump (220V) and 3/4HP pump (24V), shore pump out with (2) **JABSCO** 38mm (1 1/2") vented loops.

470 gallons/1,780 liters integrated black water tank with enamel coated interior to seal the steel tank and includes a level indicator. (2) **Headhunter** Vortex overboard macerator pumps: 3/4 HP pump (220V) and 3/4HP pump (24V) for shore pump out with (2) **JABSCO** 38mm (1 1/2") vented loops.

(2) **Trident** 1½" ventilation hoses for each tank - Gray water and Black water. One vent on each side of the boat for cross flow circulation.

PVC piping (D40mm) for Black and Gray water plumbing lines.

12. Sea water system

Engines and generators are sea water water cooled with stainless steel sea cocks and **Groco** strainers.

(2) built-in sea chests connected by **Trident** 100-250-2000 hose with two way valves.

Sea water intake with (2) **Groco** 2½" strainers for engines, (3) **Groco** 1¼" sea water intakes for generators, (1) **Groco** 1½" for air conditioner, (1) **Groco** ¾" for watermaker.

All through hull fittings and sea cocks are stainless steel.

13. Air conditioning, ventilation systems

Cruisair central chilled water system – total capacity 234,000 BTU with reverse cycle heating. Auxiliary electric heaters MCGV180SRC-2STG-380/3/50, two stage base, two stage PVCSW manifold, two stage copper CW manifold. Seawater pump is an ASY P700Z 380/3 3.75". Chilled water pump is an ASY P711Z 380-3P 1.5 HP.

(2) **Schneider** ATV312 drivers.

Cruisair air conditioning units:

Upper Deck, Salon/Office - 18,000 BTU AU18HVZ-FC-1.5KW7"MR 220V.

Upper Deck, Pilot House - 24,000 BTU AU24HVZ-3.0KW 8"MR 220V.

Main Deck, Main Salon - 48,000 BTU 2xAU24HVZ-3.0KW 8"MR 220V.

Main Deck, Galley - 18,000 BTU AU18HVZ-FC-1.5KW7"MR 220V.

Main Deck, Storage room - 18,000 BTU AU18HVZ-FC-1.5KW7"MR 220V.

Main deck, Crew quarters(1) - 9,000 BTU AU9HVZ-FC-1KW6"MR 220V.

Main Deck, Crew quarters(2) - 9,000 BTU AU9HVZ-FC-1KW6"MR 220V.

Lower Deck, Master Staterooms - 24,000 BTU AU24HVZ-3.0KW 8"MR 220V.

Lower Deck, Guest Staterooms (Starboard) - 9,000 BTU AU9HVZ-FC-1KW6"MR 220V.

Lower deck, Guest Staterooms (Port) - 9,000 BTU AU9HVZ-FC-1KW6"MR 220V.

Lower Deck, Guest Staterooms (VIP) - 12,000 BTU AU12HVZ-FC-1.5KW6"MR 220V.

Lower Deck, Engine Room - 18,000 BTU AU18HVZ-FC-1.5KW7"MR 220V.

Make up air for ventilation systems - 12,000 BTU AT12HVZ-MU-FC-1.5KW6"MR 220V, SS.

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(2) independent ventilation systems -one on Starboard side and the other on the Port side using (2) **Dometic** centrifugal fans F1-C4-H, 4" inlet and outlet. 4.7 inch., 2.9" wheel, 1/3 HP, 450 RPM, 220V, 1 PH, 50Hz. 300 CFM @ 1.25 inch. SP, 250 CFM@1.75 inch. S.P.

Engine room and lazarette both feature intake and outflow blowers. F1-120-0845H-50 fan, axial, 12 inch ID with aluminum housing (powder coated Matterhorn white). Motor frame, 0.75 HP, 220V/1/50, 2,875 RPM Motor with 8x45 degree PPG composite blades for 2,910 CFM free air. (2) D-ALE-24 Dampers, aluminum blades and frames (powder coated gloss white, 14 inch (width) x 14 inch (height) x 4 inch (depth). 24 VDC actuator.

14. Hydraulic system

SidePower integrated hydraulic system. Includes all necessary blocks, hoses and components to operate bow and stern thrusters, two windlasses, active stabilizer system with fins.

The integrated hydraulic system is driven by live PTOs on the main engines and two clutch PTOs on the generators.

SidePower SMERR-130-CC4 hydraulic pumps (130CCM, SAE-CC, right (clockwise) rotation mounted on engines.

SidePower SMJRL-045-CC4 hydraulic pumps (45CCM, SAE-CC, left (counter clockwise) rotation mounted on generators.

(2) **Imtra** SPS90 stabilizer actuators with 90mm shafts.

(2) **Imtra** stabilizer fins 2.0m² each.

(2) **Sidepower** MTR-550Kg (1,210 Lb.) hydraulic thrusters - bow and stern.

Imtra 120L hydraulic tank.

All hydraulic hose and fitting connections are secured with using high-pressure flexible hoses.

15. Insulation

Engine room insulated with 4" composite insulation per **Bering Yachts** drawings.

Aluminum perforated panels installed on the ceiling and walls in the engine room and lazarette.

Engines exhaust pipes wrapped and finished with carbon fiber covers.

Sound insulation barrier installed between the engine room and living quarters.

All bulkheads, ceilings and hull sides have acoustic and thermal insulation.

All insulation materials are fire resistant.

16. Engine room

Lazarette access via watertight door.

Engine room access via staircase from salon and main deck.

Engine room insulated with 4" thick composite material per **Bering Yachts** drawings.

Aluminum perforated panels for the ceiling and walls.

Soundproof fiberglass flooring with anti-slip surface.

Engines exhaust pipes wrapped and finished with carbon fiber covers.

(2) **Cummins** QSM11 350 Hp @ 1800 rpm continuous duty rated, raw water, heat exchanger cooled with wet exhaust. 24V electrical. Combined total power of 700 HP.

(2) **Centek** vertical combo-sep mufflers with **De Angelo** exhaust mixers. Exhaust outlets on port and starboard sides of the hull.

Main engines installed on soft engine mounts model 1600-3 with weight adjusters.

Reverso GP-3014-24 (4 valves 24V) oil change system for engines and generators.

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Cummins engines equipped with **Racor** 75/1000 dual filter/separators using 30 micron filter elements and including vacuum pressure gauges.

Alfa-Laval MIB-303 solids retaining centrifugal separator (200 GPH capacity). Internal paring disc (clean fuel discharge pump) with electric motor 220V AC single-phase. Separate feed pump/motor 220V AC single-phase, control panel complete with VFD, pre-wired for optional alarms. (2) stainless steel flexible hoses, funnel for water addition with quick disconnect. Non-return valve, T-pipe coupling, nipple, outlet piece with pressure gauge and flex hoses. Water tank with evel and seal alarm. Chrome plated hood, strainer for oil feed line. Pressure switch kit. Emergency stop box.

Reverso fuel polishing and transfer system - 210 GPH, Series - 'S' Class, marine version, 7 day digital timer, 220 Volt, 50 Hz, with fuel conditioner.

Desmi GP33EM 480 gallons/hour auxiliary fuel transfer pump.

(2) "Day Tank" fuel tanks. Total 1,030 gallons/3,900 liters capacity.

(2) visual fuel gauges on "day tanks".

(3) visual fuel gauges on main tanks.

3" stainless steel fuel intake manifold with 1" steel piping.

3" stainless steel fuel outflow manifold with 1" steel piping.

Reverso aluminum fuel feed manifold with 1/2" valves and fuel hoses to each engine and generator.

(2) **ZF** W350-1 marine transmissions with 3.95:1 reduction gear - clockwise rotation (right handed). Includes live PTO and load sense pump (130CCM, SAE-CC).

Reverso GP-3012-24 (2 valves 24V) oil change system for gear boxes.

(2) **Seatorque** ST-300 shafts.

(2) **Onan 40QD model MDDCF 40 kW 220V/380V 50Hz** four cylinder generators enclosed in soundsheilds. Wet exhaust muffler with exhaust separator.

Onan generators equipped with **Racor** 1000 fuel filter/separators using 30 micron filter elements and including vacuum pressure gauges.

Orion 24/12-25A DC-DC converter.

(3) **Victron** MultiPlus 5kW (24/5000/120-100 220V VE.Bus) inverter/chargers.

Victron Phoenix Charger 12/30.

Victron Skylla-i 24/100 charger (220VAC/45-65Hz).

(18) **Vision** 4D 240 AMP, deep cycle, 12 VDC. Total capacity is 4,560 AMP.

Spot Zero fresh water purifier model 3000 SZ3000ZWM.

Sea Xchange 30V SX2200Z 2200 gallon/9,000 liters a day watermaker.

(2) built-in sea chests connected by **Trident** 100-250-2000 hose with two way valves.

Sea water intake with (2) **Groco** 2½" strainers for engines, (3) **Groco** 1¼" sea water intakes for generators, (1) **Groco** 1½" for air conditioner, (1) **Groco** ¾" for watermaker.

2" PPR piping for sea water intakes of ballast system.

Stainless steel transfer manifold for ballast tanks using 2" PPR piping.

Control panel with swith and (4) 2" stainless steel ball valves for ballast system.

Cruisair central chilled water system – total capacity 234,000 BTU with reverse cycle heating. Auxiliary electric heaters MCGV180SRC-2STG-380/3/50, two stage base, two stage PVCSW manifold, two stage copper CW manifold. Seawater pump is an ASY P700Z 380/3 3.75". Chilled water pump is an ASY P711Z 380-3P 1.5 HP.

Cruisair air conditioning unit 18,000 BTU AU18HVZ-FC-1.5KW7"MR 220V.

Intake and outflow blowers. F1-120-0845H-50 fan, axial, 12 inch ID with aluminum housing (powder coated Matterhorn white). Motor frame, 0.75 HP, 220V/1/50, 2,875 RPM motor with 8x45 degree PPG composite blades for 2,910 CFM free air. (2) D-ALE-24 Dampers, aluminum blades and frames (powder coated gloss white), 14 inch (width) x 14 inch (height) x 4 inch (depth). 24 VDC actuator.

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SidePower hydraulic unit.

(2) **SidePower** SMERR-130-CC4 hydraulic pumps (130CCM, SAE-CC, right (clockwise rotation)) mounted on engines. (2) **SidePower** SMJRL-045-CC4 hydraulic pumps (45CCM, SAE-CC, left (counter clockwise rotation)) mounted on generators.

(4) **Johnson** bilge pumps - 4,000 gal/hour.

(4) **Ultra SR** automatic bilge pumps switches with built-in isolated high water alarm switch (at 3").

Work bench with sink.

Storage shelves.

Storage cabinets.

220V AC fluorescent and 24V DC LED lights.

220V covered GFCI duplex electrical outlet.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

Fireboy CMD-4MR CO alarm .

Fireboy Xintex automatic deployment fire suppression canisters.

17. Lazarette

Freeman pantograph watertight door connecting lazarette to swim platform. 31" wide x 65" tall.

Lazarette insulated with 4" thick composite material per **Bering Yachts** drawings.

Aluminum perforated panels installed on the ceiling and walls.

(1) **Onan 13.5QD MDKBP 13.5 kW 220/380V 50Hz** four cylinder generator enclosed in soundsheild. Wet exhaust muffler with exhaust separator.

(2) **Vision** 4D 120 Amp AGM batteries.

Kobelt hydraulic power steering system - model 7085.

1.5 kNm steering gear torque.

740 psi operating pressure.

Number of wheel turns power: 4.5 - 4.6.

Number of wheel turns manual: 28-84.

Hydraulic power unit motor pump.

Aluminum hydraulic oil reservoir and stainless steel manifold with valves.

3.5" cylinder 10" stroke and 3.5" servo cylinder with 10" stroke.

Emergency tiller in the lazarette.

(2) **Kobelt** rudder position sensors.

SidePower MTR-550Kg (1,210 Lb.) hydraulic stern thruster.

Cablemaster CM-8 100 Amp 24VDC and **Cablemaster** CM-7 50 Amp 24VDC shore cord managers.

(1) 100 Amp 220V/380V 30 meter and (1) 63 Amp 220V 30 meter shore power cords in **Cablemasters**.

50 Amp and 100 Amp shore power breaker boxes.

(2) marine Isolation transformers: 16 KWA/220V/50Hz and 100KWA/380V/50hz.

Compressor **Bauer** Mini Verticus III model No. MV 120-4-3, 225 bar with DIN filling hose fittings.

(2) **Johnson** bilge pumps - 4,000 gal/hour.

(2) **Ultra SR** automatic bilge pumps switches with built-in isolated high water alarm switch (at 3").

LED lights 220V AC and 24V DC.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

Fireboy CMD-4MR CO alarm .

Fireboy Xintex automatic deployment fire suppression canisters.

18. Cofferdam

Hatch access with stairs from the companionway on the lower deck.

Access to all tank inspection hatches.

UV built-in water filter. 40 liters/minute, 220 V.

19. Outfitting**a. Flybridge**

Teak decks.

Access from the aft stairs that lead up to the upper deck.

Scupper drains for rapid evacuation of water overboard.

Fiberglass molded-in settees with storage beneath.

Teak dining table in front of settee.

Fiberglass counter top with built-in sink and faucet.

Electric barbeque grill.

Fresh water wash down hose bib.

(2) **OceanMaster 50-R/R-16M-A** 16 person SOLAS life rafts installed, one to port, one to starboard.

Removable soft top cover over the front of the flybridge.

Fiberglass arch.

Stainless steel framed venturi windshield with dark Acrylic panels.

Stylized fiberglass mast to support and mount navigation antennas, radar arrays, communication domes and lights.

(2) **Carlisle & Finch** 12-inch chrome searchlights. 220V AC lamp with joystick (remote control) operation from the pilot house.

Forward and aft facing LED deck flood lights.

(4) **Aqua Signal** 1,000W, halogen flood lights mounted aft, forward, port and starboard.

LED courtesy lighting along walk way.

Buell dual trumpet air horn with **VIAIR** 330C-IG compressor kit 24V.

Fusion audio system MS-AV700i with four MS-DA51600 D class 5 channel marine amplifiers 1600 watts each.

Hella NaviLED navigation lights.

Hella NaviLED Anchor lights.

Shakespeare PA / deck horn / hailer / PA speaker on arch.

44" high stainless steel 2" diameter safety rails.

66" stainless steel flagpole.

b. Upper deck

Teak decks.

44" high stainless steel 2" diameter safety rails.

66" tall 1.5" diameter stainless steel ensign staff.

(2) fresh water hose bibs for wash down (forward and aft).

(2) steel settees forward covered with teak.

Portuguese bridge (with storage lockers facing walkway). Capped with varnished teak handrail 9" (225mm) width x 3" (75 mm) height.

Access to the upper deck from hinged pilothouse doors, port and starboard.

Freeman series 2400 flush deck aluminum hatch (24" x 24") access to chain lockers with flat top and yoke hinge.

Bering B80 VEDA

Steelhead CT-3000 four function hydraulic yacht crane with 18' reach and 3,000 lbs. lifting capacity with remote control.

Sea Force 540 Willard Marine Rigid Inflatable Boat (RIB)

Swift 4.0m Explorer RIB Swift 4.0m Explorer with outboard engine Yamaha 50hp 4 stroke

Custom fabricated fiberglass dinghy cradles with tie down securing straps.

LED courtesy lights.

Hella LED overhead lights.

c. Main deck

Teak decks.

Stainless steel railing with varnished teak handrail.

Vents for all fuel and fresh water tanks are located inside the bulwark.

Central fueling station recessed into superstructure amidships on port side. This single fill location allows for convenient replenishment of all fuel tanks.

(2) deck fills for fresh water tank on port side.

Gray and black water pump-out station on port side.

(2) Fresh water hose bibs at the transom.

Stairs on port side from main deck to the upper deck.

Forward facing oval shaped settee with matching varnished teak oval table.

Deep stainless steel sink with faucet and including storage cabinets below.

Transom gates port and starboard at aft end of cockpit.

(1) 100 Amp 220V/380V 30 meter and (1) 63 Amp 230V 30 meter shore power cords in **Cablemasters**.

LED courtesy lights.

Hella LED overhead lights.

(7) **Hella** recessed LED flood lights.

d. Swim platform

Teak decks.

Access from swim platform to cockpit via stairs to port and starboard.

Freeman model 1430 31"x65" pantograph watertight transom door connecting swim platform to the lazarette.

(5) 2" diameter, 3' tall, 316 stainless steel removable U-shape rails with self draining stainless steel bases.

(2) fresh water faucets.

(2) **Scandvik** hot and cold fresh water shower boxes.

(4) 12" stainless steel fold-down cleats.

20. Interior

a. Pilot house

18 mm thick solid wood flooring.

All interior bulkheads and doors are makore veneer with matte varnish finish.

(2) **Diamond Seaglaze** aluminium 575 series weathertight doors - port and starboard.

Forward windows (5 front and two side) are 19 mm tempered glass with built-in electric heating wires for defrosting.

Side windows are tinted glass with pleated window blinds.

Overhead panels are black microfiber cloth material.

All overhead lights are LED.

Array of red LED lights above the dash console.

Amber lights above the chart table.

Bering B80 VEDA

LED courtesy lights.
All pilot house cabinetry and furniture is varnished makore veneer with solid makore corners.
The dash console and window frames are finished with varnished dark veneer makore.
30" diameter stainless steel destroyer steering wheel with wooden spoke inserts.
LleBroc LX II helm chair with black leather and folding foot rest.
Leather upholstered helm bench settee with varnished teak table.
59" x 31" full size chart table built in to forward starboard side of dash console.
Dash console and forward overhead console comprises efficient layout of all the vessel electronics and machinery controls.
Vimar electrical outlets with USB connections.
Cruisair 24,000 BTU air conditioning unit - AU24HVZ-3.0KW 8"MR 220V.
Adjustable makore overhead louvers for air conditioning and ventilation.
Fireboy AP65-PESD-02-TB-R smoke alarm sensor.
Fire extinguisher.
b. Office on the upper deck
18 mm thick solid wood flooring.
All interior bulkheads and doors are makore veneer with matte varnish finish.
Diamond Seaglaze aluminium 575 series weathertight door to the upper deck.
Tinted windows with pleated window blinds.
The window from office to pilot house.
White microfiber fabric in overhead panels.
All overhead lights are LED.
Wall lights.
LED courtesy lights.
L-shaped settee built-in on starboard side.
All cabinetry and furniture is varnished makore veneer with solid makore corners.
All varnished makore cabinetry - lockers and drawers.
Vimar electrical outlets with USB connections.
Cruisair 18,000 BTU air conditioning unit - AU18HVZ-FC-1.5KW7"MR 220V.
Adjustable makore overhead louvers for air conditioning and ventilation.
Fireboy AP65-PESD-02-TB-R smoke alarm sensor.
Fire extinguisher.
c. Head on the upper deck
Ceramic tile floors.
All interior bulkheads and doors are makore veneer with matte varnish finish.
Tinted windows with pleated window blinds.
White microfiber fabric in overhead panels.
All overhead lights are LED.
LED courtesy lights.
All cabinetry and furniture is varnished makore veneer with solid makore corners.
Vanity with Corian countertop.
Ceramic sink with stainless steel premium faucet (TBD).
Mirrors above the vanity.
SeaLand (Dometic) MasterFlush 8689 electrical fresh water toilet with bidet.
Vimar multiple duplex electrical outlets GFCI.
Exhaust blower for ventilation.
Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

Bering B80 VEDA

d. Companionway upper deck

18 mm thick solid wood flooring.

All interior bulkheads and doors are makore veneer with matte varnish finish.

Tinted windows with pleated window blinds.

Overhead panels are white microfiber cloth material.

All overhead lights are LED.

LED courtesy lights.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

e. Main Salon

18 mm thick solid wood flooring.

All interior bulkheads and doors are makore veneer with matte varnish finish.

Diamond Seaglaze 1500 mm - wide weathertight French door to aft deck.

Sliding door 800 mm covered with varnished makore veneer between companionway and salon.

Door access to the staircase leading to the engine room.

Staircase connecting lower deck and pilot house (upper deck).

Tinted windows with pleated window blinds.

Overhead panels are white microfiber cloth material.

Two distinct areas of LED overhead lights.

Wall lights.

LED courtesy lights.

Built-in makore cabinetry for media center featuring a makore with frame for 55" **SAMSUNG** LCD television UA55HU8800.

L-shaped settee built-in on starboard side.

All cabinetry and furniture is varnished makore veneer with solid makore corners.

Teak coffee table with stone insert.

Varnished teak dining table with two teak chairs and L- shaped settee on port side.

Vimar electrical outlets with USB connections.

(2) **Cruisair** air conditioning units (total 48,000 BTU) AU24HVZ-3.0KW 8"MR 220V.

Adjustable makore overhead louvers for air conditioning and ventilation.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

Fire extinguisher.

f. Galley

Ceramic granite planked tile flooring.

Bulkhead and doors finished with composite paneling.

Sliding door 800 mm between companionway and galley.

Diamond Seaglaze weathertight door to Port side.

Tinted windows with pleated window blinds.

Overhead panels are white microfiber cloth material.

All overhead lights are LED.

LED courtesy lights.

U-shaped galley with cultured granite counter top.

Cupboards with doors and shelves, composite finish.

Hanging cabinets.

Bering B80 VEDA

Abundant storage lockers and drawers for storing dishes and galley ware.

Fisher & Paykel induction **cooktop** Model - CI604DTB1.

Ceramic Glass top with 4 burners.

Size: (D) 530mm, (H) 50mm, (W) 600mm.

Auto cut-off timer for each zone. Dual colour display. Flat, easy clean glass surface. Individual cooking zone controls. Key lock. Minute timer. Pan detection system. Safety time out. Soft touch electronic controls. Spillage auto-off. Surface hot indicators. Touch&Slide controls.

Overhead air vent

Broan trash compactor model 15SS. 15" Compactor, flat stainless steel door, storage compartment and manual advance odor control system. 220V.

Braburg BSC-SS15 large stainless steel basin sink.

Size: (D) 520mm, (H) 200mm, (W) 1160mm.

GE garbage disposal model GFC1001F 1HP 220V.

Premium pull out retractable stainless steel rinsing faucet (TBD).

Fisher & Paykel dish drawer DD60DCX7.

Stainless steel. 134Kwh. 6,7 Ltr/Cycle.

Size: (D) 582mm, (H) 850mm, (W) 599mm.

Capacity place settings 14 persons.

9 Washing programs. Smart Drive intelligent technology. Intelligent load sensing. Three stage flood protection. Delay start option. Quiet fan dry. Half load wash option. Child lock. Clean dishes indicator. End of cycle beeps. Accommodates dinner plates up to 29cm. Adjustable side racks. Fully adjustable racking system. 2 Cutlery basket.

Fisher & Paykel electric **wall oven** OB60SL9DEX1.

Size: (D) 580mm, (H) 598mm, (W) 596mm.

Oven Volume 90L. 9 Oven functions. AeroTech Technology. ActiveVent system. Advanced cooling system. Drop down 3200W grill element. Close door grilling. Triple glazed cool touch door. Automatic cooking/minute timer. Automatic pre-set temperatures. Capacitive touch controls. Control panel keylock. Electronic clock. Sabbath mode. Balanced oven door. Non-tip shelves. 6 Shelf positions. Catalytic liners on the sides. Interior light. Easy to remove inner door glass. Easy to remove oven door. Easy to remove shelf runners. Step down wire shelf. Flat wire shelf. Full extension telescopic shelf. Flat brushed baking tray. Roasting dish and grill rack set. Smokeless grill tray. Hardwired connection. Brushed stainless steel finish.

Media microwave G025QMY-NAH

installing dimensions (W*H*D) 600*392*550

outline dimensions(W*H*D) 595*388*414.5

Isotherm Marine double drawer refrigerator model 190. AC/DC, 3 side stainless steel flange. All refrigerator, no freezer.

Isotherm Marine Ice-maker. Stainless Steel, Spray type, 230V, 50Hz. 40 pounds of crystal clear ice per day.

Vimar multiple duplex electrical outlets.

Cruisair 18,000 BTU air conditioning unit - AU18HVZ-FC-1.5KW7"MR 220V.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

Fire extinguisher.

g. Storage room

Ceramic granite planked tile flooring.

All interior bulkheads and doors are makore veneer with matte varnish finish.

Sliding door 800 mm covered with varnished makore veneer between companionway and storage room.

Bering B80 VEDA

Diamond Seaglaze weathertight door to Starboard.

Tinted windows with pleated window blinds.

Overhead panels are white microfiber cloth material.

All overhead lights are LED.

LED courtesy lights.

All cabinetry and furniture is varnished makore veneer with solid makore corners.

Settee with the teak table.

Hanging cabinets with shelves.

(2) **SAMSUNG** refrigerators BCD-402DRISL1, 402L (254/53/95)

Stainless steel.

Chest freezer.

LG WD-16957DH combo washing and dryer machine

12/8 kg front load. Gray colour.

Size: (D) 675mm, (H) 850mm, (W) 600mm.

Cruisair 18,000 BTU air conditioning unit - AU18HVZ-FC-1.5KW7"MR 220V.

Vimar multiple duplex electrical outlets.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

Fire extinguisher.

h. Two (2) symmetrical crew cabins forward

18 mm thick solid wood flooring.

All interior bulkheads and doors are makore veneer with matte varnish finish.

Tinted windows with pleated window blinds.

Overhead panels are white microfiber cloth material.

All overhead lights are LED.

LED courtesy lights.

Two reading lights.

All cabinetry and furniture is varnished makore veneer with solid makore corners.

Two single beds.

Storage drawers under down bed.

Large wardrobe.

Night stands with drawers.

Mirror.

Vimar electrical outlets with USB connections.

Cruisair 9,000 BTU air conditioning unit -Cruisair AU9HVZ-FC-1KW6"MR 220V.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

Fire extinguisher.

i. Two crew heads

Ceramic tile floors.

Ceramic tile walls.

Tinted porthole with pleated window blinds.

Overhead panels are fiberglass.

All overhead lights are LED.

LED courtesy lights.

All cabinetry and furniture is varnished makore veneer with solid makore corners.

Vanity with **Corian** countertop.

Ceramic sink with stainless steel premium faucet (TBD).

Mirrors above the vanity.

Bering B80 VEDA

Shower cabin with glass door.

Premium stainless steel shower.

Drawer for shampoo, towel, etc.

SeaLand (Dometic) MasterFlush 8689 electrical fresh water toilet with bidet.

Vimar multiple duplex electrical outlets GFCI.

Exhaust ventilation.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

j. Companionway main deck

18 mm thick solid wood flooring.

All interior bulkheads and doors are makore veneer with matte varnish finish.

Overhead panels are white microfiber cloth material.

All overhead lights are LED.

LED courtesy lights.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

k. Master stateroom

18 mm thick solid wood flooring.

All interior bulkheads and doors are makore veneer with matte varnish finish.

Watertight door to the companionway.

Tinted windows with pleated window blinds.

Overhead panels are white microfiber cloth material.

All overhead lights are LED.

LED courtesy lights.

Wall lights.

All cabinetry and furniture is varnished makore veneer with solid makore corners.

King-size bed.

Storage drawers under bed.

Large wardrobe.

Night stands with drawers.

Mirror.

Table and cabinet on the STBD.

Vimar electrical outlets with USB connections.

Cruisair 24,000 BTU air conditioning unit - AU24HVZ-3.0KW 8"MR 220V.

Adjustable makore overhead louvers for air conditioning and ventilation.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

Fireboy CMD-4MR CO alarm .

Fire extinguisher.

l. Master head

Ceramic tile floors.

Ceramic tile walls.

Sliding doors from the master room.

Tinted windows with pleated window blinds.

Overhead panels are fiberglass.

All overhead lights are LED.

LED courtesy lights.

All cabinetry and furniture is varnished makore veneer with solid makore corners.

Vanity with **Corian** countertop.

Bering B80 VEDA

Ceramic sink with stainless steel premium faucet (TBD).

Mirrors above the vanity.

Shower cabin with glass door.

Premium stainless steel shower.

Drawer for shampoo, towels, etc.

SeaLand (Dometic) MasterFlush 8689 electrical fresh water toilet with bidet.

Vimar multiple duplex electrical outlets GFCI.

Exhaust ventilation.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

m. Starboard guest staterooms

18 mm thick solid wood flooring.

All interior bulkheads and doors are makore veneer with matte varnish finish.

Tinted windows with pleated window blinds.

Overhead panels are white microfiber cloth material.

All overhead lights are dimmable LED.

LED courtesy lights.

LED wall lights.

All cabinetry and furniture is varnished makore veneer with solid makore corners.

(2) single beds.

Storage drawers under bed.

Large wardrobe

Night stand with drawers.

Mirror.

Vimar electrical outlets with USB connections.

Cruisair 9,000 BTU air conditioning unit -Cruisair AU9HVZ-FC-1KW6"MR 220V.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

Fireboy CMD-4MR CO alarm .

Fire extinguisher.

n. Starboard guest head

Ceramic tile floors.

Ceramic tile walls.

Tinted porthole with pleated window blinds.

Overhead panels are fiberglass.

All overhead lights are LED.

LED courtesy lights.

All cabinetry and furniture is varnished makore veneer with solid makore corners.

Vanity with **Corian** countertop.

Ceramic sink with stainless steel premium faucet (TBD).

Mirrors above the vanity.

Shower cabin with glass door.

Premium stainless steel shower.

Drawer for shampoo, towels, etc.

SeaLand (Dometic) MasterFlush 8640 electrical fresh water toilet with bidet.

Vimar multiple duplex electrical outlets GFCI.

Ventilation fan.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

Bering B80 VEDA

o. Port guest staterooms
18 mm thick solid wood flooring.
All interior bulkheads and doors are makore veneer with matte varnish finish.
Tinted windows with pleated window blinds.
Overhead panels are white microfiber cloth material.
All overhead lights are LED.
LED courtesy lights.
Wall lights.
All cabinetry and furniture is varnished makore veneer with solid makore corners.
Double bed.
Storage drawers under bed.
Large wardrobe.
Night stand with drawers.
Mirror.
Vimar electrical outlets with USB connections.
Cruisair 9,000 BTU air conditioning unit -Cruisair AU9HVZ-FC-1KW6"MR 220V.
Adjustable makore overhead louvers for air conditioning and ventilation.
Fireboy AP65-PESD-02-TB-R smoke alarm sensor.
Fireboy CMD-4MR CO alarm.
Fire extinguisher.
p. Port guest head
Ceramic tile floors.
Ceramic tile walls.
Tinted porthole with pleated window blinds.
Overhead panels are fiberglass.
All overhead lights are LED.
LED courtesy lights.
All cabinetry and furniture is varnished makore veneer with solid makore corners.
Vanity with Corian countertop.
Stainless steel premium faucet.
Mirrors above the vanity.
Premium shower with glass door.
Ceramic sink with stainless steel premium faucet.
Drawer for shampoo, towels, etc.
SeaLand (Dometic) MasterFlush 8689 electrical fresh water toilet with bidet.
Vimar multiple duplex electrical outlets GFCI.
Ventilation.
Fireboy AP65-PESD-02-TB-R smoke alarm sensor.
q. VIP guest staterooms
18 mm thick solid wood flooring.
All interior bulkheads and doors are makore veneer with matte varnish finish.
Watertight door to the passageway.
Overhead panels are white microfiber cloth material.
All overhead lights are LED.
LED courtesy lights.
Wall lights.

Bering B80 VEDA

All cabinetry and furniture is varnished makore veneer with solid makore corners.

Double bed.

Storage drawers under bed.

Two wardrobes.

Cabinet with drawers.

Mirror.

Vimar electrical outlets with USB connections.

Cruisair 12,000 BTU air conditioning unit -Cruisair AU12HVZ-FC-1.5KW6"MR 220V.

Adjustable makore overhead louvers for air conditioning and ventilation.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

Fireboy CMD-4MR CO alarm.

Fire extinguisher.

r. VIP guest head and shower

Ceramic tile floors.

Ceramic tile walls.

Overhead panels are fiberglass.

All overhead lights are LED.

LED courtesy lights.

All cabinetry and furniture is varnished makore veneer with solid makore corners.

Vanity with **Corian** countertop.

Ceramic sink with stainless steel premium faucet (TBD).

Mirrors above the vanity.

Premium shower with glass door.

Premium stainless steel shower.

Drawer for shampoo, towel, etc.

SeaLand (Dometic) MasterFlush 8689 electrical fresh water toilet with bidet.

Vimar multiple duplex electrical outlets GFCI.

Ventilation.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

s. Companionway lower deck

18 mm thick solid wood flooring.

Hatch to cofferdam.

SIEMENS XQG90-WM12P2C81W Washing machine.

SIEMENS XQG90-WT46Y780TI Condenser dryer .

All interior bulkheads and doors are makore veneer with matte varnish finish.

Overhead panels are white microfiber cloth material.

All overhead lights are LED.

LED courtesy lights.

Fireboy AP65-PESD-02-TB-R smoke alarm sensor.

21. Miscellaneous

As-built Owner's manual in English. Includes descriptions and systems drawings.

Set of Warranty Certificates.

Set of manuals and certificates relating to materials and equipment.

Tool box.

Spare parts for equipment, supplied by manufacturers.

22. Electronics and Navigation equipment .**Furuno** sonar CH300BBL/325**WASSP** WMB-3230 (160kHz – 2<200m range capability) with Furuno WMB-T160S/20-TRANSDUCER 160KHZ W/20M(2) **Furuno** Radar Model DRS25A (PSU13,Gear Box,15M signal Cable)(2) **Furuno** XN13A/6 Antenna, 6 Foot Open Array(3) **Furuno** black box TZTBB System.(4) **Hatterland** HD Monitor P# 24T21 MMD-MA1-FOGP(2) **Hatterland** 19" Display(2) **Furuno** DFF1 BB Depht Finder network sounder(2) **Furuno** Transducer 556TID-LTD/12**Furuno** Model SC-30 Satellite Compass**Furuno** IF-NMEASC NMEA converter for SC30**Furuno** GP330B GPS Receiver.(4) **Furuno** FI70 Data Organizer.**Furuno** 200WX WeatherStation Instrument**Furuno** FA 50 AIS Class B Transponder**Furuno** Navpilot 711C control Unit,**Furuno** Processor,Rudder Reference.**Furuno** PG 700 Integrated Heading Sensor**Furuno** Pump PUMPHRP05-24**Furuno** IF-NMEA2K2 Converter, CAN bus/NMEA2000**Furuno** MS-100 motion sensor(2) **Furuno FI-5002** Junction Box(3) **Furuno PSU-013 24VDC** power supply unit for TZTBB(2) **Furuno HUB-101** Ethernet Hub**KVH** TracPhone V11-IP Dual-mode C/Ku-band Antenna - No Labels, ACU and Modem**Iridium** Extreme 9575 Satellite Phone Standard Package**Iridium** 9575 Satellite Phone Marine Standard Package**Red port** Optimizer Satellite Router Wxa-112

Digital Cellular Buster 4 KSBR-50M

(2) **Icom** VHF radio M506 AIS Rear (Rear Mic)(4) **Icom**-Hand held VHF radio IC-M88 compact radio

ACR-2842 Class A EPIRB GlobalFix Pro 406 CAT I w integral GPS

ACR SART-2714NH PatFinder3 Transponder w Bracket

Shakespeare AURA 2G-3G Wireless Adjustable Cellular Booster Kit.