

WESTPORT

4016 Specifications

MCA/ABS Class Vessel

PRIMARY DIMENSIONS

LOA	130' 0"
LWL	115' 0"
BEAM	26' 2"
DRAFT (half load condition)	6' 6"
TONNAGE (Gross, ITC)	approx 333

DISPLACEMENT

Full Load	490,000 pounds
Half Load	455,000 pounds
Light Ship	415,000 pounds

CRUISING SPEED

Estimate	20 knots
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TANK CAPACITIES

Fuel	approx 9,350 gallons
Fresh Water	1,750 gallons
Black Water	1,700 gallons



PLEASE NOTE: Dimensions, weights, and capacities where shown are approximate. Speed, weight, and other performance estimates if shown or discussed are estimates only and are not guaranteed. Specifications are subject to change without notice.

Modifications made to the vessel may change or affect speed, weight, or other capacities and estimates.

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Vessel Classification

AMERICAN BUREAU OF SHIPPING (ABS), UNITED KINGDOM MARITIME AND COASTGUARD AGENCY (MCA) CERTIFICATION:

This vessel will be classed by the American Bureau of Shipping (ABS). The class notation will be **YACHT**A1 Commercial Yachting Service AMS to the ABS Guide for Building and Classing Yachts. As part of the classification process ABS conducts an engineering review of the vessel's structure & mechanical systems and performs periodic surveys throughout its construction. The vessel owner is responsible for ongoing surveys and maintenance of Class after delivery.

The vessel is supplied with a "Statement of Compliance" to the United Kingdom Maritime and Coastguard Agency (MCA) 'Red Ensign Group Yacht Code (REG-YC)' issued by the Cayman Islands Shipping Registry (CISR). This document certifies that the physical vessel has been determined to meet the United Kingdom commercial use requirements for a vessel under 500 gross tons, carrying no cargo and up to 12 passengers.

To operate in commercial service under the flag of the Cayman Islands, the vessel must carry a "Certificate of Compliance" with the REG-YC. To obtain such certification, the vessel must demonstrate compliance with those sections of the REG-YC pertaining to manning and crew training, which are the owner's responsibility.

Construction

PRIMARY STRUCTURE

Hull, superstructure and decks are of foam-cored composite construction:

- E-glass reinforcements
- Vinyl ester resins
- Core material, thickness, and density varies throughout to optimize engineered structures
- Structural framing combines E-glass and carbon fiber reinforcements
- Structure is approved by the American Bureau of Shipping
- Structure is laminated using infusion and hand lay-up

PAINT

Hull/House: Alexseal "Snow White" high-gloss polyurethane, with black high-gloss acrylic boot stripe

Bottom Paint: Sea Hawk black antifouling bottom paint over an epoxy barrier coat

WINDOWS

Hull, Main Deck, and Pilothouse exterior windows are frameless, laminated, chemically strengthened glass with an internal structural layer, and directly bonded to the vessel's structure using a class approved structural adhesive system. Window thicknesses are in accordance with ABS standards.

Portlights supplied with deadlights or blanking plates as required by ABS.

Mechanical Systems

MAIN ENGINES/DRIVE LINE

Two MTU/16V2000 M96L engines, 2600 hp each, are connected to propellers via 5" Aquamet 22 HS stainless shafts and close coupled down angle gearbox. Primary exhaust is underwater at chine while a silenced bypass exits at transom corners. Seawater cooling water is supplied via dual 5" lugged type butterfly valves, bronze Y-strainers, and molded fiberglass scoops with stainless steel grates.

Main engines: Two MTU/16V2000 M96L engines; 16 cylinder V-type. Includes seawater pump, heat exchanger, and battery charging alternators.

- Controls: Electronic with throttle synchronizing and LCD data display. EDM for each engine.
- Fuel filters: Racor
- Marine gear: ZF 5050A, close coupled, 8° down angle, ratio 2.962:1 with trailing pump
- Main exhaust: Stainless steel collector with hard thermal insulation, integral spray ring for 18" main underwater fiberglass exhausts piping and flanged connections
- Underwater exhaust outlet: Molded fiberglass design with chine exit, Westport fabrication
- By-pass exhaust: 10" fiberglass piping
- Silencer: Soundown
- Propellers: Michigan Wheel custom 5-blade NiBrAl cast, CNC machined, S Class

STEERING SYSTEM

Digital hydraulic power steering via engine driven hydraulic pumps on each main engine and manual helm pump located in machinery space. The main steering station in the Pilothouse includes full follow-up helm wheel and non-follow up 'jog' lever. The wing stations are provided with non-follow-up levers.

- Rudders: Welded stainless steel construction
- Seals: PYI, PSS dripless type
- Stabilizer System

GYRO STABILIZER SYSTEM

Stabilization at rest is provided by an electrically powered gyro system.

- Gyros: Two VEEM VG120

FIN STABILIZER SYSTEM

Stabilization underway is provided by a hydraulically powered fin system and supplemented by the gyro system. Actuators and fins are installed port and starboard amidships.

Underway power is provided by a main engine-driven hydraulic pump. Control system located in the Pilothouse.

System components include:

- Actuators: Naiad model 525
- Fins: 25.12 square feet
- Control: Naiad Datum control system

HVAC SYSTEMS - AIR CONDITIONING

The interior temperature of the vessel is maintained by a 30 ton capacity seawater cooled HVAC system. Air handlers of various BTU ratings are mounted behind cabinets and bulkheads throughout the vessel and are fitted with electric heating elements for autonomous heating for all accommodation, crew, and guest spaces. The HVAC system also provides fresh air make up to create a ventilated atmosphere with strategically placed heating units.

- HVAC system: Marine Air, 30 ton, five compressors, 208 volt/3 phase/60 Hz, independent seawater intake
- Make up air units: For cycling air through vessel interior
- Air handlers: 208 volt/single phase/60 Hz, BTU ratings vary per location, variable speed hi static DC blowers
- Thermostat and controls: For control of individual air handlers and for main chiller control, Marine Air digital fan control with individual heating controller and remote temperature sensors

CENTRAL HYDRAULIC SYSTEM

Powered by pumps on port and starboard generators, either or both generators power the system. The central hydraulic system operates the thrusters, capstans, anchor winches, and crane/davit.

Gauge package: Pressure gauges for each valve manifold

Bow thruster: 16" dual prop, in-hull, 65 hp hydraulic motor

Stern thruster: 16" dual prop, external tube housing, 55 hp hydraulic motor

Davit: Nautical Structures, MCA certified with DC powered back-up hydraulic pump, telescoping with fixed length boom, 3,000 pound capacity, hydraulic

Passerelle: Extends from under the Aft Deck behind the stairs on port side. Passerelle will accommodate a wheelchair and has removable railings. The unit is self-supporting, double telescoping, rotating, with handrail and wireless control for Med-style mooring extending 6' 7 ½" past the transom with self-contained hydraulic power pack unit and controls.

FUEL SYSTEM

Total capacity: Approx. 9,350 gallons (US) in five tanks. Fill locations are on the port and starboard aft Main Deck house sides. Fill/transfer system includes centrifuge, pumps, meter, and distribution manifold. Diesel engines draw from the day tank. Engines and generators are fueled via priming pumps and filters. Fuel is transferred to and from the day tank via fuel transfer pumps. Fuel is also transferred by virtue of the work of the centrifuge. Tank levels are monitored by electronic sensor, with high/low level alarms, and displayed on a vessel monitoring system display. Fuel tanks ventilate thru a 'vent tank', which is monitored for overflow from tanks. Tanks are welded aluminum.

- Port & starboard deck fill: Threaded, SS, stamped "DIESEL"
- Y strainer: 316 SS, self-cleaning
- Centrifuge: Alfa Laval, 198 GPH diesel/water separator
- Primary pump: AC
- Secondary pump: DC positive displacement back-up/priming pump
- Filters: Valin, high capacity filters with water separation
- Meter: Electronic turbine with numerical display and automatic pump shut off
- Transfer manifold: Westport
- Main engines priming pump: Jabsco, 24 volt DC
- Generators
- Priming pump: Carter, 24 volt DC
- Filter: Racor, 500 Duplex Turbine series

DIESEL TANKS

- #1 Mid Bilge: Approx 700 gallons
- #2 Mid Bilge: Approx 750 gallons
- #3 Center (Day Tank): Approx 2,100 gallons
- #3 Port: Approx 2,900 gallons
- #3 Stbd: Approx 2,900 gallons

GASOLINE FUEL SYSTEM

Hose/ nozzle located in Swim Step locker powered by compressed air, approximately 100 gallons. A vapor detector is located in the Lazarette.

LUBE OIL SYSTEM

Spare oil for the main and generator engines can be carried onboard. Tanks for fresh and spent oil are mounted in the Engine Room. The new oil tank is replenished through an oil fill on top of the tank. The refuse oil is offloaded with a quick-connect hose at the stern. Two air-powered diaphragm pumps are used to transfer to/from locations via hose reels.

- Lube oil tanks: Divided tank, aluminum type 5086- H32, located in the Engine Room center bilge
 - Fresh oil: 192 gallons
 - Used oil: 278 gallons
- Pumps: Two air diaphragm pumps
- Fittings: Stainless steel quick connect

FRESH WATER SYSTEM

The fresh water system is comprised of a single, divided and baffled, fresh water tank, two AC supply pumps, suction supply, service and distribution manifolds, two reverse osmosis watermakers and associated valves, filters, expansion tanks, regulators, and gauges. Freshwater washdowns are located on all external decks.

- Fresh water tank (divided): Stainless steel, approx. 1,750 total gallons
- Purification/sterilization: 220VAC Silver ion electrolytic water sterilization system
- UV filters: Two for disinfection of potable water, 29 gpm each
- Water softener: Yacht Mate DM-1000 system plumbed to the fresh water tank. Swim Step dock water fill point at port bustle inset.
- Deck fills: Two stainless steel, 1 ½" round with threaded caps located on the starboard Main Deck house side inset just forward of the Foyer entry
- Watermakers: Two Blue Water Desalination, reverse osmosis type, for a total capacity of 3,700 gallons per day
- Water heater: Two dual element (for fast recovery), 132 gallon total capacity
- Dual particle filters: For removal of sediment, dissolved solids, and contaminants to 5 microns plumbed in parallel. Stainless steel canister with replaceable filter cartridges.
- Pressure tank: FRP construction located at remote ends of piping system
- Pumps: Two centrifugal pressure pumps, 30 gpm each, plumbed in parallel for high flow capability

WASTE WATER SYSTEM

Black water (toilets) is routed to the black water tank prior to emptying via shore side pump out. When permitted, black water can be treated by the onboard Marine Sanitation Device (MSD) for overboard evacuation or the tank contents can be delivered directly overboard. The dockside pump out connection is located on the swim platform. Gray water (sinks, showers, etc.) is sent directly overboard or when required, routed to the black water tank. Tanks are vented at the boot stripe, carry level alarms, and are monitored on the Vessel Monitoring System.

- Pumps: High capacity solids handling AC diaphragm pump
- MSD: Certified to meet MARPOL and USCG Type II MSD. (Includes chlorine generator)
- Black water tank: FRP construction with internal baffles, approx. 1,700 gallons
- Black water lift station: Headhunter sump for Galley and Crew Galley sinks for transfer to black water tank
- Gray water collection/movement: Three transfer boxes (Crew, Guest and Engineers) for transfer to black water tank or directly overboard via Y-valve. Includes AC pump, strainer, inspection port and overflow alarm.

COMPRESSED AIR SYSTEM

A 2 hp air compressor powers the ship's whistle, gasoline and oil transfer pumps, the fuel valves (as an element of the fire safety system), and the pneumatic tools.

- Quick connect fittings: Located at forward escape hatch, port Swim Step, Pilothouse deck Exterior Bar (port side), and Flybridge Mast Leg (stbd) in storage locker
- Hose/reel: Reel Craft spring retractable hose reel, ½" x 35' hose
- Accumulator tanks: Three 10 gallon units, two in the Utility Room and one in the stbd Flybridge mast leg storage locker

BILGE SYSTEM

The five watertight bilge compartments carry alarms for the presence of water and are monitored electronically. In the Engine Room and Utility Room are 66 gpm AC bilge pumps. The water pumping diesel engine, mounted in the Utility Room bilge, (part of the firefighting system) can also be engaged for extreme bilge pumping capability.

DECK DRAIN SYSTEM

All exterior decks are fitted with freeing ports and/or drains with a plumbed piping system. Deck drains are molded portions of the deck and fitted with polished stainless steel grates. All drain piping is of ABS approved materials, PVC-DWV and are led to laminated thru hulls located at the boot stripe with check valves and ball valves.

FIRE FIGHTING SYSTEM

The fire main system consists of four fire stations and two pumps. Each station contains a hose, angle valve, and high/low volume nozzle. The primary electric fire pump can be started from any fire station or locally.

- Hoses: Four 1 ½" x 50' FM listed lay flat type, NST thread
- Fire nozzles: Four ABS approved, one at each of the hydrant stations
- Primary pump: Centrifugal, flooded suction, 66 gpm @ 40 psi
- Back-up pump: Diesel powered, flooded suction centrifugal
- Strainer: Sea suction strainer for fire/bilge manifold, bronze 2" Y strainer or equivalent
- Seawater intake: Bronze with stainless steel grate, Westport design and supply
- Hose rack: Fiberglass construction, with rolled hose storage in fire station

FIRE SPRINKLER SYSTEM

The interior of the ship is protected by sprinklers which draw from the ship's fresh water supply. In the event the water supply is depleted, without interruption the system would revert to seawater use. The Engine Room is protected by a gas smothering Novec 1230 system.

The sprinkler system is pre-charged and automatic. The piping is copper/nickel tube with Seapress (Viega) or equal, crimp fittings. Water delivery is by two pumps which operate individually or in tandem, depending on demand. A small pressure tank maintains the stand-by pressure in the system. Control panels are located in the Engine Room and a mimic display is in the Pilothouse.

ENGINE ROOM FIRE SYSTEM

Operated manually, the Novec 1230 fire protection system provides for Engine Room fire protection. Activation (with 34 second delay and alarm) includes discharge of gas and automatic shutdown of fuel pumps, intake fans, and exhaust dampers.

The Engine Room and ventilation ducts are insulated against thermal conductivity, meeting the A-30 rating and also to provide effective sound damping.

INSULATION

The Engine Room and Galley are lined with a barrier of fire insulation.

GALLEY HOOD FIRE SYSTEM

Independent fixed system located in the main Galley in the hood above the stove.

SOUND ATTENUATION

Noise and vibration reduction measures are engineered by Westport and consultants.

Engine Room acoustic insulation is integrated with the fire insulation package. It is composed of an aluminum plate reflective barrier, absorptive layers and structural damping materials.

Machinery vibration is isolated through the use of resilient mounts.

Interior spaces are treated with sound-tight construction techniques to prevent noise transmission between compartments as well as floating joinery connections, acoustic insulation and damping materials to suppress the transmission of structure-borne noise and vibration.

MOORING & ANCHORING

Anchoring/docking is accomplished with bitts, hawse eyes, capstans, and winches. The Foredeck has two hawse eyes per side, two bitts per side, and a pair of mooring winches incorporated with the anchor windlasses. The side decks and Aft Deck have two hawse eyes per side with two bitts on each side. The two Aft Deck mooring capstans and bitts at the Swim Step with the proper use of the anchors are an asset in med-style mooring.

- Windlass/winch combination, Foredeck: Combined windlass for anchoring and winch for mooring. The system is mirrored starboard and port, hydraulically driven, yielding 6,000 pound pull.
- Anchor windlass: Two Maxwell combination tensioner/roller/stopper
- Controls: Two Maxwell
- Anchor washdown: Via fixed nozzles located in hawse pipes, solenoid controlled valves for port and starboard sides and is supplied with pressurized seawater from the fire main
- Hawse rings, bulwark: Twelve mirror polished closed oval type
- Hawse rings, bustle: Two mirror polished closed type fit around corner of bustle and bulwark at corners of Aft Deck
- Capstans: Two Maxwell VC3500, located at the bustle inset at Swim Step
- Mooring lines: Eight black Mega Braid 1 ¼" x 75', 3 ½" soft splice w/ ballistic nylon chafe gear
- Bitts: Twelve around the vessel, two Swim Step bustle inset, 19" stainless steel
- Fenders: Eight PF-8 Prostock 24" x 66" and two PF-14 ProStock 48" x 72" inflatables
- Fender hangers: Six
- Fender hook: Two raised sheer
- Heaving lines: Four 3/8" x 100' with removable monkey's fist
- Anchors: Two stainless steel, 530 pounds
- Anchor chain: 5/8" stud link galvanized steel, 400' stbd, 300' port, ABS certified
- Hawse pipe/anchor plate: Stainless steel, mirror polished anchor plates for protection of hull, includes stem plate

Electrical - Source and Power

Two generators provide 120-208 volt/3 phase/60 Hz AC power. Generators are started from the main electrical distribution panel in the Control Room with remote start in Pilothouse. Both generators carry hydraulic pumps for full redundancy. Seamless power transfer technology synchronizes power output when switching among generators and shore power.

- Generators: Two Northern Lights, 99 kW, 1800 rpm, sea water cooled, compound mounts, sound shield, water separation/mufflers

SHORE POWER

Connection to shore power is made through two shore cords at the stern of the vessel. System can accept single or three-phase power, from 180 to 520 volt and 47 to 64 Hz. Cords are handled through a powered deployment and retraction system.

- Shore power converter: Magnus 80 kVA capacity
- Shore cord reels: Two Glendinning Cablemaster motorized shore power reels with local control at transom
- Shore power cords: Cable Master/ Glendinning brand 100 amp, 3 wire with ground, Carol Cable or equal
- Phone connections: At starboard bustle

AC ELECTRICAL DISTRIBUTION

AC service from shore power and generators is routed to a breakered main electrical panel in the Control Room, then to sub-panels located throughout the vessel.

- Wiring: 4 wire with ground, 3 phase 208 volts with 120 volt single phase branch circuits where required. Single and multiple conductors. ABS type or Class Approved.
- Main switchboard: Extruded aluminum with powder coat finish, built to IP20 level of protection. Forced draft cooling.
- Full gauge package for all sources: Volts/amps of each line, phase, power, power factor and frequency

DC ELECTRICAL DISTRIBUTION

Twenty-four volt DC power from sixteen Absorbed Gas Mat (AGM) batteries is distributed from the main switchboard in the Control Room to sub-panels. Emergency lighting consists of dedicated lights in staterooms, common areas, and interior/exterior stairwells.

BATTERIES

- Main engines: Four 8-D, 245 amp/hour, in series—parallel
- Generators: Two 100 amp/hour, Group 31
- Ship's system power: Four 8-D, 245 amp hour, in series—parallel
- Emergency power: Four 245 amp/hour, in series (for navigation, emergency lights, electronics, and boat deck davit)
- Reserve power: Two 100 amp/hour, Group 31, in series

BATTERY CHARGERS

- Ship's system: Newmar 95 amp/24 volt DC
- Main engine starting battery banks: Newmar 20 amp/24 volt DC
- Generator starting battery bank: Newmar 20 amp/24 volt DC
- Emergency bank: Newmar 95 amp/24 volt DC
- Reserve bank: Newmar 20 amp/24 volt DC

Vessel Alarms & Monitoring

System is based on a 24 volt redundant architecture composed of ABS-classed hardware and includes a dedicated network of HMI (Human-Machine Interface) touch-screens for access.

Features

- A single-point Alarm Management screen in the Pilothouse and six remote touch screen HMI's, designed to aid the crew in efficient alarm recognition.
- Instant trending and comparison capabilities for tank levels and AC power.
- Monitoring and alarming of electrical system, including condition of on-board and shore power systems.
- Tank monitoring, alarming or trending for fresh water, fuel, hydraulics, and black water.
- All areas capable of generating CO (carbon monoxide) are monitored and alarmed.
- Flood condition monitoring, including monitoring and alarming for all bilge floats and sump pumps.
- A zone based security system with vessel-specific monitored points.
- Conflict and condition alarm for essential Navigation Lights.
- Full integration of independent FDAS (Fire Detection and Alarm System).
- Tank level monitoring system with dampening capabilities.
- User configurable PIN and security passwords.
- System health and self-check functionality. Monitors itself for issues such as power loss to components, communication loss between processors and displays, CPU status, and battery condition.
- Multi-level alarming to reduce nuisance alarms and minimize disturbance of guests.

Audio/Video Electronics

The AV over IP system provides a variety of entertainment sources throughout the vessel. Depending on the room type you will find Hi-Definition displays, surround sound speakers and subwoofers, along with iPads and hand held remotes for control.

Kaleidescape system provides a central movie server with the Movie and Music License and Lifetime Music Guide and Software update service included. KVH TracVision HD11 system provides a worldwide high definition satellite connection.

A dedicated power conditioner/double conversion online UPS supports the entertainment systems providing consistent clean and stable power.

Each area can access content from central sources distributed by the AV over IP system.

Central sources include:

- Kaleidescape movie/music library
- DIRECTV US
- AppleTV (airplay/local content only)
- Apple Airplay
- Navigation chart

Audio/Video System								
	Salon	Galley	Master	Upper Lounge	Aft Deck	Flybridge	Fore Deck	Pilothouse
TV	55" LED/LCD	27" LED/LCD	55" LED/LCD	65" LED/LCD	46" High Bright	46" High Bright	No	No
Apple Airplay	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Kaleidescape	Yes	Yes	Yes	Yes	Yes	Yes	Audio Only	Audio Only
Satellite TV	Yes	Yes	Yes	Yes	Yes	Yes	Audio Only	Audio Only
Apple TV	Yes	Yes	Yes	Yes	Yes	Yes	Audio Only	Audio Only
Off Air TV Tuner	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Navigation Chart	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
CCTV	No	Yes	No	No	No	No	No	Yes
Touch Panel	iPad mini	iPad mini	iPad mini	iPad mini	iPad mini	iPad mini	iPad mini	iPad mini
Hand Held Remote	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Speakers	5 overhead + powered sub-woofer	2 overhead	5 overhead + powered sub-woofer	5 overhead + powered sub-woofer	4 overhead	4 overhead	2 bulwarks	2 overhead

	Port Aft Guest	Stbd Aft Guest	Port Fwd Guest	Stbd Fwd Guest	Mid Crew	Crew Mess	Fwd Crew	Aft Crew
TV	32" LED/LCD	32" LED/LCD	27" LED/LCD	27" LED/LCD	27" LED/LCD	27" LED/LCD	27" (2) LED/LCD	27" LED/LCD
Apple Airplay	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Kaleidescape	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Satellite TV	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Apple TV	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Off Air TV Tuner	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Navigation Chart	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CCTV	No	No	No	No	Yes	Yes	Yes	Yes
Touch Panel	iPad mini	iPad mini	iPad mini	iPad mini	No	iPad mini	No	No
Hand Held Remote	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Speakers	2 overhead	2 overhead	2 overhead	2 overhead	TV speakers	TV speakers	TV speakers	TV speakers

Navigation Electronics

The vessel is equipped with modern navigation and communications equipment suitable for worldwide voyages. This equipment includes satellite based position and speed information, gyroscopic and magnetic heading data, radar, electronic charting, and depth finding. Communications equipment spans numerous transmission technologies in compliance with safety regulations and to maximize contact with shore side and marine stations, enhancing one's ability to communicate from any location. Equipment installed allows chartering under CISR flag. (GMDSS compatibility)

PILOTHOUSE NAVIGATIONAL AIDS

- Chartplotters
 - NAV 1: Nobeltec TZ Professional software with wireless keyboard/mouse. System includes interfaces from: ARPA, GPS, AIS, depth, speed, wind, satellite, and second DGPS. Output to Autopilot is provided. Chart coverage from Seattle, Washington to Ft. Lauderdale, Florida is included.
 - NAV 2: Nobeltec TZ Professional ECS with wireless keyboard/mouse. System includes interfaces from: ARPA, GPS, AIS, depth, speed, wind, satellite, and second DGPS. Output to Autopilot is provided. All NOAA US charts included.
- GPS: Two Furuno GP170D DGPS receivers with WAAS
- AIS: Furuno FA-170 interfaced to both radars and both plotters. Pilot plug is mounted at Pilothouse.
- Radar: Two Furuno FAR-22x8 X-Band
 - One with 8' open array, one with 6.5' open array
 - 96 N.M. range
 - Heading stabilized for ARPA
 - AIS target overlay
- Wing stations: Outside Pilothouse, port and stbd
 - Molded composite covers
 - Electronic engine controls
 - Main engines start and stop
 - Jog steering
 - Rudder angle indicator
 - Bow thruster
 - Horn control

STEERING

- Gyrocompass: Furuno satellite gyro system interfaced for display on autopilot, radars, electronic chart, and AIS
- Solid state compass: Maretron SSC300 fluxgate compass
- Magnetic compass: Ritchie F600 G-5 mounted centerline at Pilothouse helm station. Compass is compensated during normal sea-trials. Vessel is delivered with deviation card from that date.
- Autopilot: ComNav
- Depth / speed / wind: NMEA 2000 backbone and sensors with Maretron DSM410 displays, includes air temperature and barometric pressure options. Data repeaters in Pilothouse, Captain's Cabin, and Crew Galley.
- Color sounder: Furuno FCV1900 BB color video sounder
- Doppler log: Furuno DS80
- Satellite television: KVH HD 11 tracking antenna with world LNB

CAMERAS

Camera locations: Aft Mast, two on both Port and Starboard Side Decks, two in Engine Room, 360 degree panoramic camera at Main Deck Aft

- Closed circuit television
- CCTV camera recording via camera server
- Quad split screen color display
- Night vision camera: Flir M-series

SIGNALS AND LIGHTS

- Electric horn & hailer: Kahlenberg KB-30A, automated signal timer in Pilothouse
- Air powered horn: Kahlenberg F-2 five trumpet, push button control at all steering stations
- Ship's bell: Bronze with mirror polished chrome finish and bell hoop
- Search light: Carlisle & Finch, 200 watt xenon, 15 million candlepower, remote controlled
- Running lights: Full array

Communications

SHIP TO SHIP/SHORE

- VHF
 - Two Furuno FM8900S with DSC in Pilothouse with Emergency battery back-up
 - Two handheld GMDSS VHF radios w/desktop chargers supplied
 - VHF in Galley and Crew Galley
- SSB: Furuno FS1575 with DSC capability
- GPIRB: Smartfind Plus (or equal)
- SART: 9GHz Portable
- Navtex: Furuno NX700 paperless Navtex receiver

SATELLITE COMMUNICATIONS (SATCOM) COMPONENTS

Iridium for voice and internet access, voice connected to phone system. KVH VSAT provides internet access and two VOIP lines connected to phone system.

- High-speed internet: Starlink Flat High Performance Maritime
- Satcom "C": Furuno Felcom18 Inmarsat-C
 - Furuno PP520 Printer
 - Furuno Felcom 18 SSAS upgrade kit
- Sat phone: Iridium

TELEPHONE SYSTEM

IP telephone system with twenty extensions, six of which are cordless. Telephone system is connected to Satcom, two VOIP, and shore phone voice line. Includes a single 100' telephone/cable TV combination shore cord.

- Gangway intercom with sockets at side deck
- Shore phone: Weatherproof phone connection at starboard bustle locker
- Cellular telephone service: Region specific, two cellular data terminals
- WIFI: Marina hotspot amplifier

Interior Appointments

WESTPORT, L.L.C. DESIGN PHILOSOPHY

Westport, L.L.C. attends to every detail, from bathrobes to formal china, to create a comfortable, inviting, and functional atmosphere. Qualified interior designers assist our customers with décor decisions, decor item selection, and coordination with outside designers as required.

Woodwork: As specified by Westport Interior Design; premium woods, veneers, accent hardwoods, painted and wrapped surfaces are used in public areas and Guest accommodations. Crew areas are constructed using Anigre veneers and Beech hardwoods.

Countertops: Throughout public areas and Guest accommodations countertops are wood or stone. Stone tops in the Galley, Guest and Master heads and on buffet and bar cabinets are constructed using thin, lightweight slab with full thickness bonded edge details. Crew Galley, Crew head and Utility areas employ Corian solid surface tops. Edge profiles as specified by Westport Interior Design.

Fabric/leather: As specified by Westport Interior Design for furniture, built-in and/or loose, headboards, bedspreads, pillows, exterior cushions

Wall coverings: Westport Interior Design specified

Headliner: Wood panels and/or fabric; pattern, design, and material as per Westport Interior Design

Window treatments: Westport Interior Design specified. Power operated blinds in Upper Lounge, Salon, Master, VIP, and Guest staterooms.

Flooring/carpeting: Color and style as per Westport Interior Design

Stone: Granite or marble, color and pattern as per Westport Interior Design

Doors: Interior doors are 1 3/8" thick, design as per Westport Interior Design

Hardware: Anti-rattle latches and privacy locks, sealed to minimize noise transmission

Wardrobes: With shelves and automatic light fixture, stainless closet rod, shelf with keeper

Stairways: Carpeted with lights at stair risers and handrails at each stairway

Mattresses: Innerspring

Staterooms

MASTER SUITE

The Master Stateroom features a king sized berth with fabric or leather wrapped rails and upholstered headboard, built-in dressers, an entertainment system and A/V equipment complimented by Crestron control, and walk in closet with ample storage and hanging space. His and her heads share access to shower. Design accent lighting.

MASTER STATEROOM

- Berth: King Slumber Ease mattress or equivalent, powered lift top to access storage below
- Walk-in closet: Hanging storage and shelf
- Wardrobe: Hanging locker and shelving
- Dressers: Two
- Nightstands: Two
- Security vault
- Lighting: LED down lights
- Loose furniture: Westport Interior Design
- Wall treatment and flooring: Westport Interior Design

MASTER HEAD

- Vanities: Stone countertops, undermount sinks, mirrors above, fixtures and accessories
- Make-up desk: With lighted make-up mirror
- Flooring: Lightweight stone
- Toilets: Two Headhunter Royal Flush Bravo
- Shower: Frameless tempered glass door, stone surround and threshold, Kohler DTV showering system

VIP STATEROOMS

Two VIP staterooms feature built-in wardrobes, nightstands, and king sized berths with leather or fabric wrapped rails, upholstered headboards, and drawers in the base. Wall treatments and carpeting per Westport Interior Design. Built-in A/V equipment is complemented by Crestron control.

- Port and Starboard VIP Staterooms
- Berth: King innerspring mattress or equivalent with drawers in the base
- Nightstands: Two
- Wardrobe: Hanging lockers, drawers, and built-in entertainment center

VIP HEADS

- Vanity: Two undermount sinks, fixtures and accessories
- Lighted make-up mirror: Countertop
- Glass: Fixed, oval portlight with removable stainless deadlight cover
- Flooring: Lightweight stone
- Toilet: Headhunter Royal Flush Bravo
- Shower: Frameless tempered glass door, stone threshold, Kohler DTV showering system

GUEST STATEROOMS

Two Guest staterooms feature built-in dressers, nightstands, wardrobes, and two twin berths each with leather or fabric wrapped rails, upholstered headboards and drawers below. Sound insulation is installed in the forward bulkheads and stair enclosure. Wall treatments and carpeting per Westport Interior Design. Built-in A/V equipment is controlled by Crestron.

PORT AND STARBOARD GUEST STATEROOMS

- Two twin berths, innerspring mattress or equivalent, wardrobe, nightstand, and dresser/entertainment center

GUEST HEADS

- Vanity: Undermount sink, fixtures and accessories
- Glass: Fixed, oval portlight with removable stainless deadlight cover
- Flooring: Lightweight stone
- Toilet: Headhunter Royal Flush Bravo
- Shower: Frameless tempered glass doors, stone threshold, Kohler DTV showering system
- Lighted make-up mirror: Wall mounted

AUDIO/VIDEO LOCKER

Locker is located to port in the foyer between VIP and Guest Staterooms and contains equipment racks for the yacht's A/V System. Locker is cooled by a dedicated air handler.

CAPTAIN'S QUARTERS

The Captain's cabin with private head accommodates two persons. Flooring and wall coverings per Westport Interior Design.

- Captain's Cabin: Full size berth, custom size innerspring mattress with drawers below, TV-A/V equipment, hanging locker, dresser, bookcase
- Captain's Head: Vanity with sink and mirror above, shower with glass door, toilet

ENGINEER'S QUARTERS

Engineer's quarters are located on the port side of the Utility Room, aft of the Engine Room.

- Engineer's Cabin: Custom size innerspring mattress, drawers in berth base, A/V entertainment area, desk, hanging locker
- Engineer's Head: Vanity with sink and mirror above, shower with glass door, toilet

CREW QUARTERS

Two cabins each with adjoining head and shower accommodates total of four persons. The Crew response to the Galley is immediate, via the direct Galley/Crew quarters stairway.

- Crew Cabins: Two berths with custom twin size innerspring mattress, hanging locker, dresser, TV-A/V equipment
- Crew Heads: Shower with glass door, toilet, vanity with sink, mirrored medicine cabinet

CREW GALLEY

- Security monitor
- Dining settee with table/cabinet
- Washer/dryer (two sets) with locker above
- Refrigerator
- Microwave
- TV-A/V equipment
- Counter with sink/cabinet storage
- VHF and depth sounder

Main Salon

Expansive and elegant area for entertaining and relaxing. TV rises out of aft corner cabinet. Aft entry door is stainless steel framed, glass, counter-pull, open/close sliding mechanism with pneumatic seal.

- TV: 55" LCD
- Built-in cabinetry
- Flooring and wall coverings: Westport Interior Design
- Loose furniture: Sofa, cocktail table, three occasional chairs, three end tables, game table and four chairs

DINING AREA

Forward of the Salon is the formal dining area.

- Formal dining table: Accommodates ten guests
- Formal dining chairs: Ten
- Overhead detail: Special designer feature
- Buffet/storage: Buffets to port, starboard, and aft provide storage for sixteen 5-piece place settings of china, formal flatware, and stemware as well as A/V units

MAIN DECK DAY HEAD

- Stone vanity top
- Undermount sink
- Faucet
- Lightweight stone flooring
- Coordinated bath accessories
- Toilet

Galley & Stores

The Galley is arranged for the professional chef, featuring stone counter space with generous food prep area, custom cabinetry, and pantry with shelves for extended cruising. Appliances are as noted or equal quality.

- Induction range: Wolf, 36" five-burner
- Wall oven: Wolf, double
- Microwave/convection oven: Wolf
- Refrigerator/freezer: Sub-Zero
- Freezer, undercounter: Sub-Zero
- Wine cooler: Sub-Zero
- Sink: Stainless steel double basin with pull out faucet
- Instahot water dispenser: Insinkerator
- Dishwasher: Asko
- Trash compactor: Broan

Upper Lounge

Entertaining area located aft of the Pilothouse, sliding glass doors to the Boat Deck.

- Wet bar starboard aft corner, walk-up
 - Stone countertop
 - Refrigerator
- Fireplace with TV above mantle
- A/V equipment
- Wall treatment: Wood and/or fabric panels
- Lighting: LED down-lights
- Flooring: Westport Interior Design
- Loose furniture: Westport Interior Design

UPPER LOUNGE DAY HEAD

- Vanity
- Mirror
- Toilet
- Designer flooring/wall treatment

Pilothouse

- Bridge console: Leather-covered dash panels and wood
- Helm wheel: 24" carbon
- Chart table: To port side of main helm
- Settee: Upholstered in leather or fabric as per Westport Interior Design, wood side panels
- Flooring: As specified by Westport Interior Design
- Settee table
- Helm chair: Two helm chairs with fabric or leather to match the settee
- Log book
- Lighting: LED down-lights
- Desk: Built-in with loose desk chair
- Wall treatments: Wood and fabric panels as per Westport Interior Design

Interior Décor Items

CHINA AND DINNERWARE (TYPICAL)

Formal dining: Sixteen 5-piece china place settings and soup/pasta bowls, one serving platter, serving bowl, creamer and sugar servers; sixteen 5-piece formal silverware and one each formal serving fork and formal serving spoon; sixteen wineglasses, water goblets, and champagne flutes. Storage provided for formal china and glassware.

Casual dining: Sixteen 5-piece place settings and soup/cereal bowls, one serving bowl and platter, sugar and creamer servers; sixteen tall glasses, tumbler glasses, 5-piece stainless flatware

Barware: Sixteen highball glasses and double old-fashioned glasses, storage provided

Cookware: Galley is fully equipped with cookware, bakeware, and utensils. Cookware includes: All-Clad stainless steel professional cookware set, Henkel cutlery set, KitchenAid mixer, food processor, toaster, blender, coffee maker, and accessories.

FURNITURE (TYPICAL)

Main Salon: Dining table accommodates ten guests, two occasional chairs, sectional sofa, cocktail table, two end tables, game table with four game chairs

Skylounge: Sofa sectional, cocktail table, two occasional chairs, end table, partners desk with two desk chairs

Pilothouse: Desk chair

Aft Deck: Ten dining chairs, three barstools

Boat Deck: Two occasional chairs, loveseat, cocktail table

Flybridge: Ten dining chairs, three chaise lounge chairs, two end tables

Art and accessories: Westport Interior Design

LINENS

Guest linens (bed and bath) include pillows, two sets of sheets per stateroom, blanket, duvet with cover, bathrobes, bath towels, hand towels, and face cloths.

Master linens (bed and bath) include two king pillows, two sets of king sheets (flat and fitted), king pillow cases, king blanket, duvet with cover, bath towels, hand towels, and face cloths.

Crew linens (bed and bath) include pillows, two sets of sheets per berth, blanket, bath towels, hand towels, and face cloths.

Household linens include Galley towels and dishcloths; Crew Galley dishcloths, housekeeping towels and dust cloths.

Mechanical Space

ENGINE ROOM

Access is from the Utility Room through water-tight door on center line. Two 24k air conditioning units maintain a comfortable environment. For details of equipment found in the Engine Room, see Main Engines/Drive Line section.

EQUIPMENT ROOM

Access is from the Utility Room. Contents of the room are MSD, two diaphragm pumps, two water makers, two hot water heaters, HVAC chiller, HVAC unit, MSD control boxes and VFDs for HVAC.

CONTROL ROOM

Access is from the Utility Room or through water-tight door from the Aft Deck. The main electrical distribution panel and battery chargers are located here.

UTILITY ROOM

Access is through water-tight door from the bustle or from the Aft Deck via the Control Room. Utility Room contains the Novec 1230 bottle, fire hydrant station, Moduline toolbox and tool set, utility bench with sink, air compressor, refrigerator/freezer, ice maker, dive compressor, dive bottles, and HVAC unit.

Exterior Appointments

NAME BOARDS

Name boards are variously backlit on sides and transom, custom font, hailing port on transom in vinyl, subject to customer specification.

RAILS

Hull side rub rails: Upper and lower molded composite with ½" stainless steel half oval rub strip.

Stainless rails: Mirror polished stainless steel, 1 ½" round top rails with 1 ¼" round stanchion.

PORTLIGHTS

Stainless steel, fixed, with removable, stowable deadlight covers.

THRU-HULLS

Bronze with bronze valves, bonded. Main engine raw water supply is fiberglass and bronze butterfly valve.

SWIM PLATFORM

- Teak decking
- Washdown hose bibs
- Swim ladder sockets
- Pop up cleats: Four
- Gasoline filling facility
- Swim ladder: Folding handle stainless steel
- Steps to Main Deck: With handrails, port and starboard
- Capstans/mooring bitts: Port and starboard
- Underwater lights: Six LED
- Staple rails: 2" Diameter removable

AFT DECK

Full service bar, cushioned aft settee with cocktail tables, dining table, ten loose dining chairs, control box for passerelle, and A/V equipment.

- Teak decking
- TV
- Entertainment system controls
- Furniture
 - Dining table with fixed pedestal
 - Ten dining armchairs with cushions
 - Settee facing forward with cushions and covers
 - Two fixed pedestal cocktail tables
 - Three bar stools with cushions
- Lighting control for the Aft Deck
- Full service bar
 - Ice bin, bottle/barware storage
 - Stone countertop
 - Refrigerator
- Wing doors: Locking plexiglass
- Wash down hose bib
- Stainless rails: Mirror polished stainless steel, 1 ½" round top rails with 1 ¼" round stanchions

FOREDECK

- Teak decking
- Wash down hose bib
- Flag staff
- Chrome ship's bell
- Deck lighting
- Anchor windlasses/capstans: Two
- Hatch: Chain locker access and fender storage
- Settee: With fixed pedestal table
- Foredeck seat: With storage underneath for windlass control pendants and chain washdown controls

FLYBRIDGE

- Teak decking
- Mast: FRP with Alexseal white paint
- Hard top: Integrated with mast
- Wet bar with stone countertop and refrigerator
- Furniture
 - Fixed dining table
 - Ten dining arm chairs with cushions
 - Three chaise lounges and cushions with two side tables
- Anchor light
- Deck lighting
- Air horn: Kahlenberg
- Hot tub: Custom fabricated with multi-zone jets; heat is taken off the generator cooling system to preheat water plumbed directly into the hot tub so as not to deplete hotel supply
- Wash down hose bibs
- Hand rails: Stainless steel continuous handrail with ¼" laminated glass, clear or smoked panels between stanchions (fore and aft only)
- Courtesy flag halyards: Port and starboard on mast

FORWARD OBSERVATION DECK

- Teak decking
- Furniture: Two chaise lounge chairs with cushions, side table
- Hand rails: Stainless steel continuous handrail with ¼" laminated glass, clear or smoked panels between stanchions

BOAT DECK

- Teak decking
- Loose furniture: Cocktail table, love seat with cushions, two arm chairs
- Electric BBQ with stainless steel housing
- Refrigerator
- Wash down hose bib
- Ensign flagstaff: 5'x 8'
- Mast
- Chocks: Universal Mounting System
- Tender
- Space for owner-supplied water toys
- Davit: 3000 pound full hydraulic proportional control, back up from reserve back up power pack
- Life rafts: Two each Port and Starboard, 10-man with embarkation lights, in cradles, with hydrostatic release
- Hand rails: Polished stainless steel, 1 ½" round top rails with 1 ¼" round stanchion

TENDER

AB Nautilus 17 DLX, 115hp Yamaha outboard includes:

- VHF radio with fold-down antenna
- Compass
- Depth sounder
- Polished stainless steel rails
- Swim ladder
- Boat chocks: Welded aluminum, white powder coat finish
- Boat lifting bridle: Custom fit web, four-point design with stainless steel hardware
- Fenders: Four heavy duty white 6" x 24"

Miscellaneous Equipment

- Covers: Pearl Grey Stamoid covers are custom made for exterior settees, tables, bars, flybridge console, tender, sun pad/hot tub and loose furniture. Pearl Grey Stamoid bags will be utilized for loose handrails for passerelle, boarding ladder and items such as folding chairs.
- Windshield: Black mesh cover is provided for the Pilothouse forward windows
- Cushions and sun pads: Custom fit and upholstered in customer-selected color and pattern
- Boat hook: Aluminum telescoping to 8'
- Boarding stair: 8-step carbon fiber with handrails on both sides, brackets at port and starboard boarding gates, stowed in a recess on the starboard house side
- Dive compressor: Brownies YP 45
- Spare parts
 - MTU spare parts kit
 - Northern Lights spare parts kit
 - Ship spare parts kit, including screws, bolts, hose clamps, light bulbs, etc.

Provisions

The Westport 40M is delivered with the following:

- Approximately 2,000 gallons of diesel fuel
- Engines with oil and coolant
- Full fresh oil tank (192 gallons)
- Various spares and accessories including supply of oil filters, cleaning supplies, towels, etc.
- Propeller puller, swim ladder, flagstaffs, (stern flagstaff with 1/8" nylon line, bow jack staff with 1/8" nylon line [both rigged per standard yacht practice]), courtesy flag halyards on mast

Safety Equipment

Safety equipment required for charter service under Cayman Islands Shipping Registry of up to 12 passengers:

- Life rafts: Four 10-man A-pack flat with radar reflectors
- Life preservers: Twenty-three Coast Guard approved adult life preservers with water lights, six Coast Guard approved child life preservers with water lights
- Ring buoys: Four 30" diameter buoys secured on exterior of vessel
- Immersion suits: Seventeen
- Flares: Flare kit included
- Bell: Perko
- Fire extinguishers: Ten 10-pound, nine 5-pound, and one 2.5-pound dry chemical type; also ten 10-pound carbon dioxide type
- Medical kit: MCA compliant coastwise and offshore medical kit and supplies, plus one year subscription to shore-side 24/7 medical assistance service provider
- EEBD: Seventeen Emergency Escape Breathing Devices

Plans and Support

Vessel is provided with the following documentation:

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| • Docking plan | • Air conditioning arrangement |
| • Electrical distribution schematic | • Tank capacity curves |
| • Equipment informational packages | • Piping system plans (Black, gray, and fresh water) |
| • Outboard profile | • Owner's Manual |
| • Fuel oil system diagram | |
| • Fresh water and deck drain diagram | |

Westport provides 24/7 on call support during the initial familiarization, owner/crew orientation at dockside, and during sea trials. The terms of this support may vary.

Westport, L.L.C. reserves the right to make changes and substitutions in the components and/or materials listed in these specifications. All such changes will be to equal or better quality. There are no charges or credits for Westport, L.L.C. initiated substitutions.