

SHORT SPECIFICATION BN106



Vessel Type	Baron 133' Twin Screw Diesel Yacht			
<u>Dimensions:</u>				
Length over all	133'2"	40.60 m		
Length of waterline (half load)	114'4"	34.86m		
Breadth over all	28'8"	8.13 m		
Draft	7'2"	2.20m (@ 210 metric tons Displ.)		
Displacement	210 metric tons (half load)			
<u>Construction:</u>				
Year built	2007			
Builder	Kaiserwerft GmbH, Saal (Bavaria, Germany)			
Yard Number	106			
Construction Material	Glass Reinforced Polyester, Underwater side Vinylester laminate Teak Laid Decks			
Classification Society	RINA			
Classification Rules	Rules for Construction and Classification of Pleasure Vessels			
Class Notation	100 – A – 1.1 "Y"			
Flag State	optional			
Paint System	US Paint filler, Awlgrip finish (outside)			
Exterior Glass	TECHNOGLAS of Switzerland, panes with UV Filters			
<u>Machinery:</u>				
Main Propulsion Engines	2 MTU 16V 2000 M91 Marine Diesel Engines Electronical Governed 2000 bhp (1492 kW) @ 2350 rpm			
Gearboxes	ZF 2565, i=3.306			
Shaft/Propellers	Shaft material TITAN 25, Diam. 114.3mm in 3 Rubber Bearings (water lubricated) 5 Blade NIBRAL Propellers, Diam. 1300mm			
<u>Speed, Consumption and Range</u>				
<i>Speed</i>	<i>RPM</i>	<i>Knots</i>	<i>Range (nm)</i>	<i>Remarks</i>
Maximum Speed	2380	18	630	Maximum Speed is the highest speed the yacht can reach for a limited period of time
Cruising Speed	1700	13	1141	Cruising Speed is the optimum usage of fuel to power ratio at constant RPM
Passage Speed	1100	10	2242	Passage speed is the speed at which the yacht can achieve a long range using fuel very economically. However, the engines RPM is required to be increased for 10 minutes every 6 hours to 1.800 RPM so as to engage the second turbochargers.
	580	5.8	2600	Slow Speed is the absolute minimum speed the yacht can operate at
<i>Note:</i>				
1. All above details are "about"				
2. The above consumptions include the fact at 1 generator is operating continuously so as to provide basic electrical services				
3. The above performance is the basis a calm sea state, no wind influence, deep water, clean hull & appendages and half fuel tank loads				

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**Auxiliary Machinery
& Electrical System :**

Batteries	24 Volt DC Systems with 12V Gel Batteries, Dolphin Battery Chargers
Battery Banks	600 Ah 24V Domestic Service 200 Ah Bank for Backup Hydraulic Service 400 Ah 24V Engine Starting Service 200 Ah 12V Radio Emergency Service 400 Ah 24V Navigation Equipment 200 Ah 24V Generator Stating Service 200 Ah 12V General Service
Watermaker	2 SCHENKER MODULAR 210 litres per hour each
Generators	2 KOHLER 80kW/100kVA, with John Deer Diesel Engines
Shore Power Converter	output max 120 kVA, 3 phase with frequency synchronization input 180-520V, 47-64 Hz

Ancillary Equipment:

Steering System	Twin balanced plastic rudder blades with stainless steel rudder axis Rudder lever with interlink, hydraulic ram Separate rudder hydraulic plant with emergency back up function
Stabilizers	WESMAR TYP 1650, Two Fins
Diesel Oil Separator	WESTFALIA
Bilge Pumps	one 24V submersible pump in each bilge section 1 Pcs. 400V central pump on a valve manifold 1 Pcs. 24V central pump on a valve manifold
WC System	Vacuum Marine WC´s, with fresh water flush
Sewage Treatment Plant	HAMANN (Germany)
Bow Thruster	WESMAR 74kW / 100hp
Stern Thruster	WESMAR 56kW / 75 hp
Central Hydraulic plant	2 BOSCH-REXROTH Tandem Pumps on PTO´s of both Gearboxes main engines (load sensitive axial piston pumps) max 200cm ³ delivery per revolution (each Tandem pump @ max 210 bar, 450 litres Hydraulic tank, one additional 400V Back Up Pump, 24V auxiliary pump
Hot Water Boilers	2 Pcs.200 litres, 10 kW heating power each
Air Conditioning	CONDARIA Central Cold Water plant, 360,000 BTU cooling Power, two separated chiller for cooling electric power distribution room, 36,000BTU Mixing with fresh air from outside to Master Cabin, Dining
Fresh Water Cooling System	Separate chiller unit with heat exchanger in the fresh water holding tank

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<u>Safety & Security Equipment:</u>	
Life buoys	6 watertight bulkheads 4 life buoys, 2 with buoyant Lines, 2 with smoke/lights
Life jackets	21 for adults, 4 for children, in conformity with SOLAS
Life Rafts	5 Pcs. 10 person capacity, self righting in GRP Containers, in conformity with SOLAS, with SOLAS Emergency Pack A
Fire Fighting	Automatic FM200 Gas Fire Extinguishing Plant in Engine Room and electric power distribution room 5 Sea Water Fire Fighting Hydrants with Hoses 1 Fire Fighting Pump 400V 1 Fire Fighting Pump 24V 15 Portable Fire Extinguishers
Elektronic Safety Equipment	1 JOTRON EPIRB 1 JOTRON SART 2 GMDSS VHF radios (portable)
<u>Alarms:</u>	
Fire Detection	Fire Detection System with smoke detectors in all spaces, heat detectors in Galley, engine room and Crew Galley
Security	CCTV system with cameras in Engine Room, aft Deck, Salon, Slouching area, electr. Power distribution room, bow mast, side gangway, Monitors on Bridge Dashboard and Crew Mess
<u>Communication Equipment:</u>	
SATCOM 1	INMARSAT Standard C Communication Terminal
SATCOM 2	INMARSAT Mini M Communication Terminal
Radio	VHF Radio with GMDSS, DSC (stationary) 9 portable VHF handheld radios
Telephone	2 GSM Triband fixed installed with gateway unit to PABX Automatic Telephone exchange station (PABX) with interfaces to SATCOM, FAX, GSM, internal Telephone sets, shoreline connector (PSTN)
TV Sat Antenna	2 axis System with Rate gyro, Diam. 850mm
<u>Office Equipment:</u>	
Shipboard Network	Ethernet Cat 7 STP cable network in star topology with one central hub, optional WLAN with server and access points
Printer	Network Laser Printer in Pilot House
Internet Connection	Via shipboard Network and SATCOM
Faxsimile	Fax interfaced via PABX to SATCOM, GSM and Shoreline

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Navigation Equipment:

Magnetic Compass	1 Pcs. On Bridge Panel
Electronic Compass	1 Pcs. GPS-Compass
Radar	2 Pcs. X-Band Radar, one with 4` scanner, one with 6` scanner
GPS	1 Pcs. GPS receiver
Depth sounder	1 Pcs. Standard Depth Sounder
Forward facing Depth sounder	1 Pcs.
Auto Pilot	Standard Auto Pilot, heading signal from GPS compass and Rategyro/Fluxgate Compass
Wind force / Direction	Standard Wind Instruments
Chartplotter	Standard Chartplotter
NAVTEX	Standard Navtex receiver
Windlass	2 MAXWELL windlasses with hydraulic motors
Aft Waring Capstans	2 MAXWELL hydraulic driven Capstans
Passarelle	1 Hydraulic driven Passarelle in centreline aft 1 Hydraulic driven Passarelle on starboard side midship
Stern Shell Door	Hydraulic Stern Door, in Open Position useable as swimming platform
Tender	1 diesel inboard engine driven Jet-Tender on foredeck, with hydraulic crane
Dive Compressor	One small portable Dive Compressor (optional)
Ropes	Towing Ropes Rocket Line Thrower, accordingly to Classification Rules and Flag State Rules

Audio / Visual Entertainment System:

B&O entertainment system of Denmark in all living areas of the yacht used guests

Domestic Equipment:

Main Galley	Miele Electric Hob Miele Air Extract Hood Miele Oven Miele Steam Cooker Miele Microwave Miele Dishwasher Miele Fridge Miele Freezer Miele Coffee Maschine Harpag Trash Compactor Fridge GE Footcenter & Icemaker
Crew Mess	Miele Microwave Miele Fridge Miele Freezer Miele electr. Hob & Cooker Miele Air Extrac Hood

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Laundry	4 Miele Combi Wascher / Dryer (Crew area aft)
Salon-Bar	Coolmatic Fridge
Open aft deck / Boat Deck	Coolmatic Fridge
Pilothouse	Coolmatic Fridge
Skylounge	Coolmatic Fridge
VIP-Cabins	Coolmatic Fridge
Owner´s Cabin	Coolmatic Fridge
Open Aft Deck (Bar)	Wessamat Icemaker
Slouching Area	Siemens Wine cooler
	Coolmatic Fridge
<u>Accomodation for Owner and Guests:</u>	
Master´s stateroom on main deck	1 double bed
2 VIP staterooms on lower deck	2 double beds
2 Guest Cabins on lower deck	1 double bed, 2 single beds
Penthouse	1 sofa, convertible into a double bed
Total Owner´s / Guest beds	12
Accomodation for Crew:	
Captain´s Cabin Lower Deck forward area	1 double bed, 1 sofa, convertible into a double bed, with en suite bath room
Crew Cabins	3 Crew cabins on lower deck, stern area, 2 single beds each
Total Crew Beds	10