

Motor Yacht "Perfect Harmony" BN 103

Vessel Type: Baron 102'
Twin Screw Diesel Yacht

Dimensions:

Length Overall	102'	31 metres
Beam	22' 4"	6.8 metres
Draft	5' 5"	1.85 metres
Depth	10' 2"	3.1 metres
Displacement	100 tonnes (lightship)	
Tonnage	155 GRT	46 NT

Construction:

Year Built	2005	
Builder	KaiserWerft GmbH, Saal a Donau, Germany	
Yard Number	BN 103	
Construction:	Glass Reinforced Polyester (GRP)	
	Teak Laid Decks	
Classification	RINA 100-A-1.1 "Y"	

Machinery:

Main Engines	2 x MTU 16V 2000 M91 Charge Air Cooled, Turbocharged, Electronic Governed, Marine Diesel Engines 2000 mHP (1471 kW) @ 2350 RPM	
Gearboxes	ZF 2555, reverse/reduction gearboxes, ratio 1:2.462	
Shafts/Propellers	"Inline" shafts of Aquamet steel alloy, water lubricated stem bearing + 2 outboard "P" brackets. 2 x Propellers, Dia.1080 mm 5 Blade NAB running in partial tunnels	
Speed	Max. Speed about 25 knots	

Auxiliary Machinery & Electrical Systems

Watermaker	AQUABASE, 200l per hour
Generators	2 x HFL, Marine Generator Sets 3 phase, 230/400V AC 50 Hz/(60 kW) Perkins Base Engine (4 Cyl. rated @ 1500 RPM) 230 volts AC 1 phase 50 Hz 400 volts AC 3 phase 50 Hz
Electricity	MAGNUS MARINE Electronic Conversion Shore Power Converter input: 80 kW 180V-520V AC, 50-60 Hz mono or 3 Phase with synchronization,
Shore Power	MAGNUS MARINE Electronic Conversion Shore Power Converter input: 80 kW 180V-520V AC, 50-60 Hz mono or 3 Phase with synchronization,
Converter	MAGNUS MARINE, from 400V to 120V
Batteries:	24 volt DC Systems Gel Batteries with Dolphin chargers 2pcs. 120A 3pole 800Ah 24V Domestic 400Ah 24V Engine Starting 200Ah 12V Radio/Com 200Ah 12V Service
Inverter:	Mastervolt 24V to 120V

Tank Capacities & Range:

Fuel	14,000 litres,	3699 USG
Water	2,000 litres,	528 USG
With freshwater cooling system		
Grey Water	1,200 litres,	317 USG
Black Water	800 litres,	264 USG
Lub oil	420 litres,	106 USG
Range	Approx 550 NM @ 23 Kt	

Ancillary Equipment:

Steering System:	BCS twin hydraulic ram, twin balanced rudder arrangement with interlink.	
Bow Thruster	36 kW/50 hp, Hyd. powered via PTO	
Stern Thruster	36 kW/50 hp Hyd. powered via PTO	
Stabilizers	WESMAR Stabilizers	
Fuel Filters:		
Main engines	Racor D-75/1000MAX	

Generators	Racor D- *500MAM30
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Fire/Bilge Pump:	1 x Biergans AM 50EM2 T50, 40m³/h 400VAC 1 x ACM 401BT, 24VDC, 14m³/h 4xJabsco 3550
Boiler:	2 x G&R, 200 litre Electric Hot Water Boiler 5+5kw
WC's	6 x TECMA Marine WC's, with sea water flush plus integral F.water bidet
Sewage Treatment	Hamann Super Mini Sewage Treatment Plant
Air Conditioning	HFL Chilled Water AC Compressor Plant 300,000 BTU Individual fan coil units for each room

Safety & Security Equipment:

Safety:

Watertight bulkheads	4 x
	Towing Rope Rocket Line Thrower 1 x JOTRON SART 1 x JOTRON EPIRB 1 x Axis50 GMDSS VHF
Life Rafts	3 x 8 Man VIKING RescYou™ Raft Pro, Self righting life rafts with SOLAS "B" packs in GRP containers with float free hydrostatic release units.
Lifebuoys	4 x Lifebuoys (2 with buoyant lines, 2 with smoke/light)
Lifejackets	14 x SOLAS Lifejackets 4 x SOLAS (Child size)
Fire Fighting	Engine Room CO ₂ Installation – Batec
Fire Hydrant	Sea Water Fire Hydrant System - fore & aft deck Fire extinguisher blanket

Portable Fire Extinguishers

Alarms:

Fire Detection	NAVEL Fire Detection system with smoke detectors in all spaces, plus heat detector at engine room and galley
Security	CCTV system with cameras 2 x Engine Room + 2 x Aft Deck Monitors on Bridge & Crew Mess (through WSF TV)

Communications Equipment

SATCOM	Simrad F55 Inmarsat F Satellite coms terminal with voice/fax - interfaced via PABX
SATCOM	Sailor H2095C INMARSAT-C Standard C Satellite Communications terminal
GSM	Phonecell Tellular dual 900/1800MHz Phonecell Tellular single 1900MHz Gateway units via the PABX system
VHF Radio GMDSS	Simrad RS86F VHF Radiotelephone with DSC, 4 x Simrad HT51 Handheld VHF Radiotelephone sets 5 x Headset LWH51 1 x Headset profi 1 x GMDSS AX30
PABX	Panasonic Digital Super hybrid telephone exchange, with direct trunkline access

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to SATCOM, GSM and
PSTN (shoreline).

Passerelle Type G 309 600 kg
Besenzoni Hydraulic
Passerelle Type PI 383

Navigation Equipment

Magnetic Compass 1 x Cassens Plath
mainhelm

Sat. Compass 1 x Simrad HS50

Auto Pilot Simrad AP50
Hand remote, heading
signal from Simrad HS50
and Rategyro/Fluxgate
RFC35R

Depth Sounder forward looking sonar
FLS Gold

Radar Simrad RA83
Single 4' Scanner

GPS GPS signals from Simrad
HSS0 & Simrad GN33S/W

Weatherfax: Navtex NAV-5

Chartplotter Simrad chart system CS 55
15" TFT

Wind Inst. Simrad IS 15
With lot/log

Deck Equipment

Anchor Windlass 2x 3500 watt /24 volt
Lofrans Vertical

Aft Waring Capstans Lofrans 2x 1500 watt /24VDC

Ground Tackle Anchor: 2x 128 kg
High Holding Power
Chain: 2x 110 metres,
12,5mm stud link

Boat Crane Besenzoni Hydraulic Crane

Audio Visual Entertainment Systems

Salon BeoSound9000 Audio/HiFi
BeoCord V8000 video
recorder
B&O DVD player
BeoVision 4-42 TV
Karthrein Sat receiver
UFD590
Sonance Ceiling speaker

Owner's Suite
main deck BeoCenter2 audio/HiFi
BeoVision 5 TV
HT 502 speakers
Karthrein Sat receiver
UFD590

Owner's Suite
Lower deck BeoVision 5 TV
HT 502 speakers
Karthrein Sat receiver
UFD590

Guest Cabins BeoVision 6 TV
BeoCenter 2 audio/HiFi
HT 502 speakers
Karthrein Sat receiver
UFD590

Crew Cabins & Mess 2x Sharp LC-15S1E TV
2x Car radio
Karthrein Sat receiver
UFD590

Dinning Area BeoVision 6 TV

Galley Car radio

Aft Deck Ceiling Speakers

Domestic Equipment

Main Galley Miele 4 ring cookingstove
Miele Air Extract Hood
Miele Oven
Miele Dishwasher
Miele Microwave
Miele Steamcooker
G.E. Footcenter; Icemaker
Miele Freezer
Miele Refrigerator
Miele Coffee Machine
Universal Trash Compactor
Miele Dishwarmer
Liebherr Winecooler

Crew Mess Siemens Microwave
Siemens Refrigerator
Siemens Cookingstove
Siemens Air Extract Hood
AEG Freezer

Laundry Miele Washing machine
Miele Dryer

Guest area Miele Refrigerator

Helm station Coolmatic Refrigerator

Owner's Cabins Coolmatic Refrigerator

Salon Wesamat Icemaker
Miele Refrigerator
Liebherr Refrigerator

Fly Miele Grill

Tenders & Watersports Equipment

Tender Novamarine
400 DL, 4 metre RIB
+ Honda 50 hp outboard

Jetski 1x Bombardier XPDI
Special hydraulic
slip system

Office Equipment

Network 2x patchfeld switch HP
procurve 2124
Wall sockets in all spaces
throughout yacht

Printer Network Brother MFC 9030
printer/fax/copy

Internet
Connection with the Simrad F55 System

Facsimile Interfaced via PABX to
SATCOM, GSM & PSTN

Accommodation

Owner's Suite
(main deck) Split level Double Cabin
with sitting area
lower level kingsize bed
.

Higher level en-suite
bathroom with combination
Jacuzzi/bath/shower, twin
wash stand, WC and bidet

Owner's cabin
(lower deck) Double Cabin with sitting
area, desk and large
wardrobe.

En-suite bathroom with
combination
bath/shower, wash
stand and WC.

Guest Cabins (x2) Twin cabins with shower
rooms en-suite

Crew Cabins (x2) Twin berth Cabins

Crew Mess Dining/rest area for 4 pers,

Crew Bathroom shower and WC