

Aluminium

<b>Overview</b>	
Type	KOOPMANS 48 Decksalon/Aluminium/Centerboard
Boatname	STORMVOGEL (since maiden journey 1997)
Build	1995 (into water 1997)
Dimensions	app. 14,46 x 3,95 x2,70 m
Draft	1.45/2.70 m
Mast hight	app. 19 m
Yard	Koopmans Kasko Sneek / Wilhelmina Yard (both THE NETHERLANDS)
Design	Dick Koopmans
Hull material	Aluminium
Superstructure material	Aluminium
Deck material	Aluminium / Teak
Window material	Aluminium / double layer glass
Hull shape	S-Frame
Keel	Centerboard (hydraulic, manual pump)
Weight	app. 19 tons (net 16 tons)
Ballast	app. 8 tons
Dieseltank	2 Tanks, in total 650 Liter
Watertank	2 Tanks, in total 750 Liter
Black&Greywater tank	2 Tanks, in total 220 Liter
Daytank	No (temprrarysolution for Genset)
Wheel / Rudder	Wheel, Whitlock (1 mechanic, 1 hydraulic)
Emergency rudder	Yes, in stern locker
Windfane	Yes, HYDROVANE (new 2/2012)
Anchor	Yes, electric LEWMAR V4 electric (new 3/2014) + 100 meter chain (new 3/2014) + Deltaanker
<b>Interior</b>	
Design/Style	Custom spefic classic
Material	Bubinga hard wood
Cabins	2 (+Salon +Shower and toilett)
Berth	4 (+1 in Salon)
Headroom	Saloon+Deckhouse app. 1,90m / Forecabin app. 1.85m
Toilett	1 (manuell)
Shower	1 (with sink)
Heater	Webasto 2010 CV, hot water system with radiators; new 9/2015+B25
Air condition	No
Hotwater	Yes (Boiler via engine or shore power)
Waterpressuresystem	Yes
Galley	Yes
Fridge and Freezer	Yes, two boxes with each a compressor, liquid cooled
Stove	Ja, 3 Flammen FORECE TEN / Gas
Oven	Ja, FORCE TEN / Gas
Exhaust hood	No
<b>Engine / Electric</b>	
Main engine	NANNI 4 Zylinder
Type	NANNI N.85

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Horse power	85 PS
Operating hours	ca. 1.600 (new 09/2012)
Impusion	MAXPROP / SHAFT / AQUADRIVE (new 2009)
Cooling system	Indirekt
Consumption	ca. 5 Liter Diesel
Cruising speed	ca. 7 Knots
Propeller	3 blade MAXPROP (new 2/2012)
Lubrication	Seewater
Bowthruster	Yes (new 2009)
Gas detector	No
Bilgepump (electric / manuel)	1 manuel, 2 Electric
Electrical installation	Central fuse boxes below chart table
Voltage	12 volt + 220 volt via inverter or genset; 24 volt for bow thruster
Batteries	Mainengine 12V/90Ah, generator 12V/90Ah, Housing 3*12V/200 Ah (all new 2/2015), bow thruster 2*12V/110 Ah (new 4/2015)
Genset	Yes, EMI MDS 102 (4 kW, 2 cylinder PERKINS)
Charger	Yes, 2 VICTRON PALLAS
Inverter	Yes, VICTRON 1.500 Watt
Batterie monitor	Yes
Solarpanel	Yes, 3 (1*30 Watt, 2*95 Watt)
Wind- and towing generator	Yes,AMPAIR AQUAIR 100 Watt (Windmill, Propellerturbine)
<b>Rigging</b>	
Rig	Cutter
Mast	Aluminium, brand Proctor, withe painted
Furler	Yes, Yankee RECKMANN 30 and Staysail RECKMANN 20 (both new 2/2012)
Sails	Mainsail 42 m2 Triradiaal, Hydra Net Radial 433 + Persenning + Lazyjack (new 2/2012)
	Yankee 48.5 m2 Triradiaal, Hydra Net Radial 433 (new 2/2012)
	Staysail 27.2 m2 Triradiaal, Hydra Net Radial 433 (new 2/2012)
	Storrmsail ca. 9 m2 (new 2/2012)
	Parasailor brand WINGAKER app, 148 m2 (new 4/2012)
Reffsystem	Foresails: Furler / Mainsail jiffy reef with lazy jacks
Backstay tigthner	Yes, hydraulic (NAVTEC, refit 2/2012)
Downhauler	Yes, Proctor mechanic
Winch	8x LEWMAR self tailer (2*54st / 5x44st / 1x34st)
Spiboom	Yes, Aluminium
Shrouds	2 lower shrouds, 4 upper shrouds, DYFORM (new 2/2012)
<b>Navigation (all new 2/2012ff)</b>	
Compass	Yes, two: RIVIERA URANIA and FURUNO PG700
GPS	Yes, two: FURUNO GPS-33 and FURUNO AIS-50
Depth sounder	Yes, FURUNO DST800
Speed indicator	Yes, FURUNO DST800
Wind indicator	Yes, FURUNO RO WIND PLUS
VHF	Yes, RAYMARIN i100 and iCOM Handheld
Radar	Yes, FURUNO DRS2D (lan)
Plotter	Yes, FURUNO MDF12 with worldwide charts (new 2/2012)
	(coconut milkrun)
Autopilot	Yes, FURUNO NAVPILOT 700 (hydraulic)

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AIS	Yes, FURUNO AIS-50
Navtex	Yes, FURUNO FAX-30
Wetterfax	Yes, FURUNO FAX-30
Navigation-PC	Yes, PANASONIC Toughbook CF29 with MAXSEA 1.9x and worldwide chars (coconut milkrun)
SSB short wave radio	Yes, ICOM 801 with AT 101 antenna tuner
Satellite communication	Yes, SAILOR Thrane&Thrane 150
Stereo Radio	Yes, Kenwood CD/SD/BT Radio
<b>Equipment</b>	
Sprayhood	Yes
Bimini	Yes
Liferaft	Yes, VIKING RescYou 6 persons (new 2/2012; maintained 3/2014)
Winter tent	Yes (t.b.v.)
Bathing platform	Yes (can not be used because of mounted HYDROVANE)
Deck shower	Yes
Deck wash	Yes
Anchor wash	Yes
Fenders	Yes, 6
Watermaker	Yes, DESOLATOR DUO60 (12V/220V); 60 Liter/h (new 01/2013)
<b>Miscellaneous</b>	
Shipping routes	few years Northsea and Balticsea / since 2012 worldwide
Value added tax	Yes, paid in THE NETHERLANDS, documents available
Maintenance and Repair	Yes, permanent by professional yards in THE NETHERLANDS, NEWZEALAND and GERMANY
	2005: Hull new painted; New Teakdeck
	2009: Bowthruster, Corrosion removal; Sealings; Propellershaft
	2012: Major refit (see separate documentation)
	2014: Refit and improvement (see separate documentation)
	2016/2017: Major refit "beauty farm"
	Documentation: Building, Refit2012, Refit2016/2017
Owners	3, Builder (app. 12 Years); Hobbysailor (app. 3 Years); World cruiser (3 Years plus)
<b>Known Projects</b>	
Watermaker	Tankfilling improvment (Refit 2016/2017)
Genset	Starter engine maintenance
Mainengine	Daughterdisplay in cockpit configuration / function re-think (?)