



R/V KINFISH

Vessel Specifications



GENERAL

<i>Vessel type</i>	Expedition and Research/Survey
<i>Flag / Port of registry</i>	Sweden / Göteborg
<i>Built / rebuilt</i>	Stord 1958 / Båtservice 1986, Kimek 1996, NRS 2017
<i>Class</i>	DNV +1A-1 ICE-C - E0 (bow strengthened to ICE 1B1)
<i>Length (LOA)</i>	37.25 m
<i>LBP</i>	31,38 m
<i>Beam</i>	7.01 m
<i>Max draft / Air draft</i>	4.25 m / 16.25 m
<i>Tonnage</i>	329 GT / 98 NT
<i>Displacement</i>	442 tonnes
<i>Material hull / superstructure</i>	Steel / Aluminium
<i>Speed (cruising / max)</i>	9 knots / 11 knots

TECHNICAL

<i>Main engine</i>	Grenaa 6FR 24T 750 BHp @ 750 rpm Primary engine Controls / PMH / DP Secondary engine control original Grenaa Hydraulic Autronica E0 system
<i>Auxiliary engines</i>	Valmet ,620D SMG,110kW/220V/50Hz air start Valmet, 620D SMG,110kW/220V/50Hz electric start
<i>Propeller</i>	Grenaa C/P 4 Blade
<i>Thrusters</i>	2x PMH ST 60-80 (60-80HK) 8mm Steel
<i>Rudder</i>	Active Becker type
<i>Steering gear</i>	Frydenbø HS12 01 (1990) Frydenbø Mjølner PTE 1 1/4 pump no. 1 (1990) Ulstein PE 1 1/4 pump no. 2 (1996)
<i>Lube oil separator</i>	Alfa Laval, MAB 103
<i>Heater</i>	Pyro 35 kW oil/electrical
<i>Compressor</i>	Sperry HLF 2/27 with Leroy Somer LS100L T 3 phase Motor 3kW
<i>Transformer</i>	Noratel 3MSO-91.22 60 kVA Palmier Robin 50 kVA
<i>Water maker</i>	HEM water maker 6 000 l/24h Aqua Pro UV- 24 GPM-HTM water filter Ultraviolet water Sterilizer between tanks and taps
<i>Fire pump</i>	2 x Delta 400-serie, 500 l/min, 15 bar
<i>Emergency fire pump</i>	Yanmar YDP30N-E3, portable w. el. start, 900 L/min
<i>Other</i>	Mastervolt Mass 24/25 25 Amp battery charger ME cooling pump Desmi 550-32-135/D09 14 M3
<i>HPU 1</i>	For Crane, anchor winch and MOB boat davit
<i>HPU 2</i>	Brueninghaus hydromatik pump a10VSO 100 DFR1/31 For thrusters/PMH DP system 2x Saur Danfoss 90l 130cc mounted on ME

TANKS AND STORAGE CAPACITY

<i>Cargo Capacity</i>	Open deck area 51.5 m2 / load 12/15 T Cargo hold 47.5 m3 Forpeak 11.4 m3
<i>Fuel</i>	2x 8.70 m3 + 2x 6.90 m3 + 2x 16.80 m3 + 1x 17.50 m3 Total = 82.30 m3
<i>Day tank</i>	2x 0.60 m3
<i>Fresh water</i>	2x 7.60 m3
<i>Black/Grey water</i>	6.30 m3
<i>Waste oil</i>	0.62 m3
<i>Trim Tank</i>	5.30 m3 + 12.5 m3
<i>Other</i>	Anti-roll tank 12 m3

SAFETY AND MEDICAL EQUIPMENT

<i>MOB Boat</i>	4,5 meter, 40HP Yamaha, 2-stroke
<i>Life rafts</i>	2x Viking 25-person life rafts
<i>Survival Suits</i>	25
<i>Life buoys</i>	8
<i>Life jackets (rigid)</i>	25
<i>Life jackets (inflatable)</i>	25
<i>Fire alarm unit</i>	Servoteknikk with 49 sensors
<i>Fire fighting engine room</i>	Fixed CO2
<i>Fire fighting galley</i>	Fixed Ansulex
<i>Medical equipment</i>	Medical stock for worldwide trade Helicopter stretcher AED w. EKG

BRIDGE EQUIPMENT

<i>ECDIS</i>	2x Furuno FMD-3100
<i>MaxSea</i>	Dell computer w. MaxSea 10 MaxSea charts from Dakar to North Atlantic
<i>Radar</i>	Furuno FAR2817 Furuno FAR2117
<i>Autopilot</i>	Robertson, AP9 Mk II
<i>GPS navigator</i>	Furuno GP-32 Furuno GP-35
<i>Navigation Echosounder</i>	Koden CVR010 Suzuki analogue echo sounder Skipper EML224 (speed, log, water temp).
<i>AIS</i>	Sam Electronics – Debeg 3401
<i>Compass</i>	iXBlue S.A.S, Octans III Navtron, NT920 AHR heading repeater
<i>Navtex</i>	JRC, NCR-300A
<i>Watch Alarm System</i>	Alpha BNWAS
<i>External communications</i>	SSB/ Sailor RM2150 HF SSB/ Sailor RE2100 Sat C / LRIT Furuno Felcom 15 Inmarsat C Sailor H 2095 C fleet broadband dome Iridium 9555 Satellite Phone Iridium Pilot open port dome Sailor RM 2048 DSC GMDSS Sailor RM 2042 DSC Sailor RT 4822 DSC Sailor 6300 MF/HF DSC Sailor 6222 VHF DSC 2x Sailor SP3520 Icom ICM71 Sailor SP3510 2x Raymarine RAY101E Megaphone
<i>Internal communications</i>	Intercom Vingtor

<i>Radar Transponder (SART)</i>	McMurdo S4 rescue SART Sailor 5051 AIS SART and Jotron 9 GHz
<i>EPIRB</i>	Sailor SE406-II KANNAD Auto 406MHz
<i>Camera surveillance</i>	3x CCTV cameras on Honeywell remote camera system 1 camera in the engine room 1 camera viewing aft deck 1 camera in the top of the mast
<i>Other</i>	Sailor DT4646e GMDSS computer terminal. Printer+printer

DECK EQUIPMENT

<i>Deck crane</i>	3.6 ton Heila HLM 10-3S
<i>Fixed davit</i>	4 ton gantry davit on stern
<i>Winches</i>	2x 5 ton electrical winches on fixed gantry davit
<i>Diving Ladder</i>	For use on ship or small boats
<i>Search light</i>	2x fixed ice light in bow Remote control search light port side (Norse Light) Manual search light starboard side (Norse Light)
<i>Rescue boat davit</i>	4 fixed search lights on AFT deck Vestdavit C-194-2, 700kg SWL

ACCOMMODATION

<i>Cabins</i>	5x passenger doubles en suite cabins 1x passenger triple en suite cabin 2x double en suite crew/staff cabins 4x double crew/staff cabins w. shared facilities 3x single crew/staff cabins w. shared facilities 13+15 beds in total, 2 shared bathrooms w. shower
<i>Common areas</i>	Messroom w. bar and dining area for 18 seated persons Crew mess w. 5 table seats TV Lounge / Dayroom w. board games, wireless media library and PlayStation 4. Survey Lounge w. survey station, library and large projector screen for presentations and media streaming via Apple TV or HDMI from computers, phones, tablets or the wireless media library. Mud room / Changing room
<i>Storage/work areas</i>	Galley (all stainless steel) Deck Office w. first aid station inc. AED and helicopter stretcher Deck workshop Laundry w. washing and drying facilities for crew/staff, 2 washing machines, 2 dryers. 6 m3 freezer room, 3 m3 (total volume) freezer boxes 6 m3 cooling room Bonded stores, Dry store, Linen lockers Cargo hold w. work bench and crew/staff gym

EXPEDITION EQUIPMENT

<i>Zodiacs</i>	2x 5,85 meter, Hypalon, MK5 equivalent
<i>Zodiac engines</i>	60HP Yamaha 4-stroke w. electric tilt
<i>Polar bear protection</i>	2x Rifles cal. 30-06 1x Shotgun cal. 12 (for slugs) 3x Signal pistols

ADDITIONAL

<i>Survey station</i>	2x 60" TV screens, 8x 17" Fujitsu screens
<i>Media library</i>	Network harddrive w. media library and file sharing
<i>Drone</i>	DJI Mavic 2 PRO w. accessories
<i>Fishing gear</i>	Fishing rods for ocean fishing and outside fish cleaning sink and desk.
<i>Bicycles</i>	2x Watski foldable bicycles
<i>SUP</i>	4x standup paddle boards