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RV HEINCKE

Ship's Basic

Owner	German Ministry for Education & Research
Operator	Alfred Wegener Institute for Polar and Marine Research, Bremerhaven
Flag	Federal Republic of Germany
Built	Detlef Hegemann Roland-Werft GmbH & Co. KG, Berne 1990
Type	Multipurpose Research Vessel
Classification	GL + 100 A5 E2 ‚Special Ship‘ + MC E2 Aut.

Dimensions and main data

Tonnage	1322 GT / 396 NT
Length o.a.	54.59 m
Beam	12.50 m
Draught	4.16 m
Freeboard	1.93 m
Speed	abt. 12.5 kn
Cruising radius	abt. 7500 sm
Fuel Capacity	144 t
Freshwater Capacity	21.9 t
Aquarium Water	29 t
RO fresh water production	3 t/day

Engines

Main Engine	3 x KHD-MWM TDB-604 L 6 each 525 kW
Propulsion	DMT DC-motor GC 395/103/6 1100 kW
Aux. Equipment	Schottel Pump-Jet 620 kW, Special rudder type ‚Becker‘, Interling stabilizer tank
Generators	3 x 800 kVA, 380 V, 50 Hz; 1 x 228 kVA, 380 V, 50 Hz, 1 x 40 kVA, 380 V, 50 Hz; main generators, harbour generator, aux. generator



Network

Ship's network 380/220 V, 50 Hz via transformer
Stabilized network 380/220 V, 50 Hz via alternator

Lifting Gear

A-frame SWL 3t, gallow SWL 3t, main crane max. 6t,
aux. cranes 0.99 t

Winches

fishery winch 2 x 1200 m / 18 mm; 4 t net winder, net monitor
winch 1200 m / 11 mm;
special (4-drum) winch: 3000 m coax cable / 8 mm; 3400 m steel
wire / 6 mm; 1200 m coax cable / 11 mm;
2400 m coax cable / 11 mm

Accommodation

11 crewmembers and max. 12 scientists

Nautical Equipment

Gyrocompass, 2 x autopilot, 2 radars, radio navigation systems: NMS
2000, MK 53B, Trimble 10X, Seral SR3 with colour plotter, radio
direction finder, doppler-log Dolog 22 D, EM-log Naviknot II

Acoustic Equipment

Navigation echo sounder, net monitoring system, sediment echo
sounder, 2 fishery echo sounders

Communication

Telephone, 2 x talk-back systems, data collection and distribution
system for nautical, meteorological and all kind of data (pc based),
HF-SSB-radio telephone 1.6-30mc, VHF units, GMDSS A1, A2, A3,
Fleet 55, weather fax receiver

Laboratories

Dry laboratory abt. 42 sq.m, wet laboratory abt. 28 sq.m, freezing
laboratory abt. 9 sq.m, multipurpose laboratory abt. 22 sq.m,
space for containers abt. 38 sq.m

Supplies

380/220 V, 50 Hz network, 220 V, 50 Hz stabilized network, 220 V,
50 Hz UPS, pressed air 4 bar, industrial water, pure seawater, data
distribution system 'DATADIS', remote control for acoustic systems

