



NIWA
Taihoro Nukurangi

Kaharoa II Multi-purpose marine research vessel



Designed by leading naval architect Skipsteknisk, it is the new benchmark for research vessels under 500 gross tonnage:

- Silent DNV Acoustic and Fisheries Class
- 30-day, 6500 nautical mile range
- 10t A-frame supported by 6 tonne deck crane and an 85m² working deck
- Mounted sensors including Kongsberg echosounders, multibeam, USBL and dynamic positioning
- Space for 9 working staff and 6 crew, with operations room, dry laboratory, wet laboratory and conference facilities.

Kaharoa II sets the standard of excellence for marine research vessels. The state-of-the-art science platform has the capability of a larger vessel for a vast array of applications across the marine environment.

Available for charter, *Kaharoa II* is a cost-efficient vessel with the latest equipment and technologies to enable world-class science.

Kaharoa II specifications

Name of vessel	<i>Kaharoa II</i>
Class and Flag	Class: DNV 1A, "Fishing vessel", DYNPOS-AUT, Silent A, Silent F, EO
Aft deck area	85m ²
Dry lab	12.9m ²
Wet lab	12.6m ²
Length	36.1m
Beam	9.5m
Draft (Design)	3.65m
Gross tonnage	492
Cruising speed	10
Max speed	12
Main engine	Yanmar Y6N21AW – 956kW @ 850 rpm. Tier III
Shaft generator	Stamford, 750KVA, 440VAC, 60Hz
Dynamic positioning	KPOS DP1, 420kW Schottel pump jet and 1 x 250kW transverse aft thruster
Auxiliary generator	Cummins QSK 19-DM, 711KVA/569kWe/440VAC, 60Hz
Accommodation crew	6 crew in single bunks
Accommodation passengers	8 in double cabins, 1 in single cabin

Endurance	30 days
Range	6500Nm
A-frame	SWL 10t
Starboard T-frame	SWL 5t
Trawl winches	2 x 2000m 16mm wire
Net drum	4.3 SWL. Capacity 4.3m ³
CTD/Camera/Acoustic winch	Nominal max pull 5.3t-6500m 10.59mm electricaloptical cable
Oceanographic winch	Nominal max pull 3.6t-4000m 8mm synthetic cable
Main crane	6t at 8m, 3t at 12m
Multibeam	Kongsberg EM712
Sounders	EK80, 5 channel system with 150kHz ADCP
Attitude reference system	Kongsberg Seapath 380-R3 GNSS/INS/Attitude Sensor. Applanix POSMV capable
Hydro-Acoustic positioning	HiPAP 352
PROVISION FOR:	
Sub-bottom profiler	Topas PS40
ROV/AUV	Light to mid work class ROVs/AUVs
Multibeam	Kongsberg EM2040

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