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Hull 091

111m RO/PAX Catamaran



General Particulars

Yard No:	091
Designer:	Revolution Design Pty Ltd
Builder:	Incat Tasmania Pty. Ltd.
Class Society:	DNV-GL
Certification:	DNV-GL ✱A1 HSLC R1 Ferry "B" EO
Length overall:	111.9 metres
Length waterline:	103.2 metres
Beam Overall:	30.5 metres
Beam of Hulls:	5.8 metres
Draft:	4.1 metres
Speed:	42.4 knots at 600 tonnes deadweight

Capacities

Max Deadweight:	1000 tonnes (approx.)
Complement:	1200 persons (including crew).
Passenger Decks:	Located on one level, Tier 3.
Consisting of:	- First Class, Business Class and Economy Class lounges - Bars and food service areas - Gift Shop - Male and female Toilets - Disabled Toilet

Crew Accommodation

Crew accommodation Port and Starboard at Tier 2 level for 8 crew including bunks, lockers and bathroom facilities.

Vehicle Capacity:	595 Truck lane metres @ 3.1m (w) plus 219 cars @ 4.5m x 2.35m or 401 cars. Vessel fitted with stern mounted vehicle loading ramp.
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Axle loads:	13.0 tonnes (single axle, dual wheel) on truck decks. 2.0 tonnes (single axle) elsewhere.
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Tankage:

- Fuel Oil (main storage) - 160,000 litres*
 - MGO Fuel Oil (long range) – 450,000 litres*
 - Fuel Oil (Header tanks) - 2 x 1240 litres
 - Genset Fuel Oil - 2 x 1240 litres
 - Fresh Water – 2 x 5,000 litres
 - Sewage – 2 x 6,500 litres
 - Lube Oil - 1 x 1,100 litres
 - Oily Bilge holding – 1 x 1,100 litres
 - ER Sludge - 4 x 160 litres
 - Aft Hydraulic Oil - 2 x 500 litres
 - Fwd Hydraulic Oil - 1 x 500 litres
- *Note: Approximate preliminary values

Construction

Design - Two slender, aluminium hulls connected by a bridging section with centre bow structure at forward end. Each hull is divided into ten vented, watertight compartments divided by transverse bulkheads. Three compartments in each hull are prepared as fuel oil tanks with additional strengthening on each of the end bulkheads and intermediate tank tops.

Air Conditioning

Reverse cycle heat pump units throughout capable of maintaining between 20-22 deg C and 50% RH with a full passenger load and ambient temperature of between 0 deg C and 35 deg C and 60 % RH.

Evacuation

Four Marine Evacuation Stations (MES), two port and two starboard, each MES capable of serving a total of up to 300 persons. A total of fourteen, 100-person liferafts are fitted.

2 x SOLAS semi-rigid inflatable dinghies with motor and approved launch / recovery method

Machinery

Main Engines:	4 x resiliently mounted MAN 28/33D STC 20V marine diesel engines, each rated at 9,100 kW at 100% MCR
Water Jets:	4 x Wartsila Lips LJX 1500SR waterjets.
Transmission:	4 x ZF 60000 NR2H gearboxes.
Hydraulics:	Three hydraulic power packs, one forward and two aft, all alarmed for low level, high temperature and filter clog and low pressure. One pressure line filter and two return line filters fitted. An off-line filter / pump provided
Ride Control	A "Naiad Dynamics" active ride control system is fitted to maximise passenger comfort. This system combines active trim tabs aft and a fold-down T-foil located at aft end of centre bow.

Electrical Installations:

Alternators:	4 x Scania DI13 074M 323kW marine generator sets.
Distribution:	415V, 50 Hz. 3 phase. 4 wire distribution with neutral earth allowing 240 volt supply using one phase and one neutral. Distribution via distribution boards adjacent to or within the space they serve. 200-amp 415V 3-phase shore power connection point fitted in starboard anteroom.

Details provided are based on original design and certification.

For more information on Incat representatives in your region, contact head office.