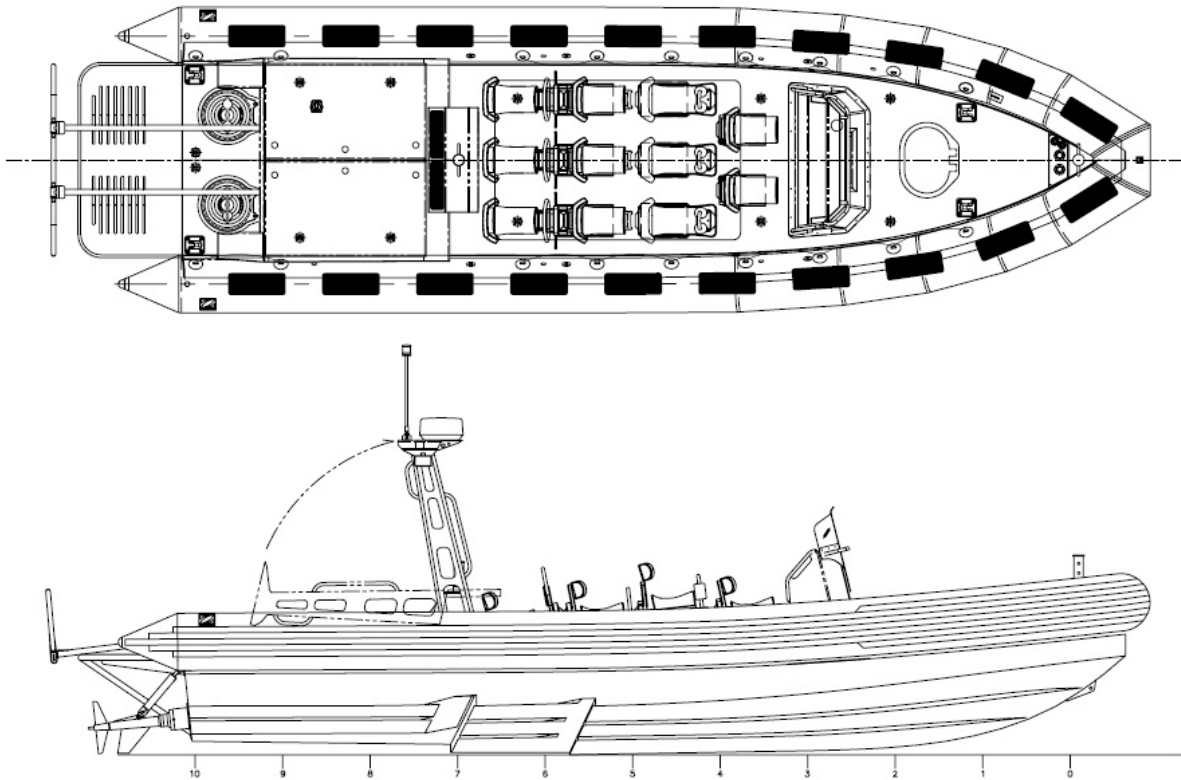# MACH II – Military Air Channeled Hull

1100 IO MACH II / European Demo Boat version

Considered the finest craft of their type in the world, the Zodiac Hurricane range of RIBs are used by the most knowledgeable and discriminating operators who demand the utmost in ruggedness and reliability. RIBs combine the security, stability, light weight and ease of use of traditional inflatables with the speed and comfort of a rigid boat. True "go anywhere" boats, they provide exceptional marine qualities combining a low centre of gravity to a deep V hull and a stabilizing buoyancy tube.

All Hurricane models have removable collars, for ease of maintenance, transport and store as well as the capability of interchanging with DuraRIB foam collars.

Zodiac Hurricane has been supplying high speed outboard powered RIBS since the early 1990's.

The Zodiac Hurricane MACH II (Military Air Channeled Hull II) was created to offer a high speed fully versatile boat that is at ease in all activities and all sea conditions. The patented MACH hull design reduces resistance and enhances directional stability for increased speed, fuel economy and safety.

The MACH II hull design is available with inflatable or Durarib foam collar. These features combine to provide superior seaworthiness, shock mitigation, stability and maneuverability required to operate reliably and effectively in extreme conditions.

MACH II – Military Air Channeled Hull

Picture is not contractual

PHYSICAL CHARACTERISTICS:

- Length overall – 11.32 meters

- Beam overall – 3,23 meters

- Beam (collar deflated) – 2.50 meters

- Collar diameter – 0.61 meters

- Collar volume – 6128 liters

- Fuel capacity – 700 liters (2 tanks)

- Displacement (with full fuel, no payload) – 7500 Kg

- Max Horse Power – 2 x 480 HP

- Max speed –55 Knots, full fuel & 1000 Kg payload

- Range (at 55 knots) – 210 NM

MACH II – 1100 IO European Demo Boat description

Hull and deck
• Aluminum stepped hull & deck with 5086 alloy;
• Foam flotation, under deck cable routing, under deck access hatch to remove fuel tanks;
• Hull & deck painted haze grey, black anti-fouling bottom paint;
• Self draining deck with black non skid adhesive on all horizontal deck surfaces.

Collar
• Grey inflatable collar, 7 chambers with foam fill at the bow;
• Removable collar with slide on attachment;
• 1670 dtx Neoprene/Hypalon fabric, intercommunicating inflation/deflation valves & overpressure valves;
• Collar accessories – All around black rubbing strakes (total 5 rows all around with 7 rows in bow section), interior and exterior full length lifelines laced on D-rings, 20 black non-skid pads on top of collar;
• 12 VDC Autoflate system;

Console
• Three person wide aluminum console with handrails;
• Includes inserts for fire extinguishers port and stbd;
• Lewmar access hatch in front;
• Handles on dash for navigator;
• Height adjustable windscreen with sliding attachment.

Seating
• 8 Shockwave jockey seats: 2 at console, 2 rows of 3 wide;
• 3 Shockwave jump seats located aft of aft row of jockey seats.

Equipment
• Stainless steel bow eye and two heavy-duty stainless steel transom tie-downs;
• Mooring – two transom cleats, aft tow post and removable bow post, bow box with anchor package;
• Electrically actuated folding antenna/light arch with radar platform;
• Aft swim platform over surface drives, same height of aft deck, with non skid adhesive;
• Stern launch ramp to accommodate F470 or PWC, removable with tools;
• Removable bow ladder, allows access over bow to dock or beach, stores in bow locker;
• Cast aluminium under deck hatch to forward hull cavity storage area;
• 12 Flush deck tie downs;
• Removable storage locker located at the aft end of the engine box;
• Two 2.5Kg (5 pound) fire extinguisher and stowage;
• Console/seating cover & overall cover.

Bilge pumping/draining
• High capacity deck drains fitted with scupper trunks;
• Manual and Electric bilge pumps.

Hoisting
• Integral SS 4 point lift points - flush folding;
• 4 point polyester webbing with steel master link.

Electrical
• 12 VDC electrical system (23 circuits);
• Three battery banks (Optima D34M batteries) with 2 poles selector/isolator switches;
• Battery condition indicator;
• 220 VAC (16 amp) shore-power system with battery charger;
• Galvanic isolation and monitoring system package;
• Dimmer switch (2) - instrument lights and separate dimmer for compass light;
• Handheld searchlight;
• Two 12 VDC Accessory plugs (marine style);
• One 12 VDC Accessory plugs (automotive style);
• Two pair of Deck lights (LEDs);
• One pair of floodlights.

Navigation/communications
• Navigation lights (w/ LEDs) in accordance with COLREGS '72 for vessels < 20 meters length;
• Electric horn;
• Magnetic compass Ritchie SS-2000;
• Radar - Garmin GMR 18;
• Chartplotter/Display - Garmin 4212;
• GPS sensor – Garmin;
• Sounder - Garmin GSD 22 with tilted element transducer;
• Autopilot/heading sensor - Garmin TR-1 Gladiator, interface with chartplotter/display;
• Marine VHF Radio ICOM IC-M604 with 3 decibel gain VHF antenna. DSC Class D. integrated with GPS;
• Marine Wired Intercom System - David Clark DCCI 9800. Accommodates up to six crew members on intercom, expandable to five radios with optional Multi-Radio Interface Module.

Fuel system
• Dual fuel tank system, aluminium, EC marked (2 x 350 liters) with fuel gauge and fuel/water separators.

Propulsion
• Twin Volvo Penta D6-435hp inboard engines;
• Twindisc 5061A gear - 1.54:1 ratio;
• Twindisc Arneson ASD-8 BIL drives;
• Propulsion installation includes U-joint jack shafts, hull & drives anodes protection, engine covers with hinges, air intakes & ventilation, aft machinery space underdeck access hatch over each drive;
• Hydraulic steering.

Miscellaneous
• Design category B/C approval according to EC 94/25;
• As a minimum, boat in all respects meets American Boat and Yacht Council (ABYC) standards and recommended practices and ISO: 6185-4 draft guideline.

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