

EXPLORER 12



AIR CUSION COMFORT & VERSATILITY

The Explorer 12 Hovercraft is a 12 seat fully amphibious hovercraft powered by a single diesel engine. The engine is connected via drive belts and pulleys to lift and thrust fans. The thrust fan has fully variable/reversible pitch.

The hull is manufactured according to standard marine composite techniques using high quality glass and resins. Integral buoyancy compartments provide excellent reserve floatation.

The control position is mounted forward to give the pilot superb visibility. A steering wheel operates slipstream mounted rudders to control heading. A variable pitch propeller and internal ballast movement further enhance controllability of the craft. The instrument panel contains full instrumentation to indicate engine and craft performance parameters.

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FEATURES

Engine

Diesel engine - 275hp at 2500rpm. Turbocharged and inter-cooled. Stainless Steel exhausts. Closed circuit liquid cooling with electric fans. Coalescer panel to remove airborne salt spray to protect engine bay components. Engine compartment fire sensor.

Fuel

Fuel type diesel. 240 litre fuel tank mounted amidships provides fuel for up to 6 hours cruising.

Transmission

Centrifugal clutch engagement. Drive shaft transmission for clean fan intakes. Gates Polychain GT2 Kevlar Aramid toothed drive belts. All rotating parts rubber mounted to minimize hull vibration.

Thrust

Single 1600mm diameter ducted propeller. Fully variable and reverse thrust. Sealed bearings. Safety screens on all air intakes.

Lift

800mm diameter centrifugal compressor fan. Strong non-corroding composite construction. High efficiency and quietness.

Skirt

Full flow bag/segment skirt system giving excellent stability at speed with the bag acting as a protective fender. Strong, high quality Northern Rubber neoprene/nylon material used for bag and fingers.

Hull

Fiberglass and polyester resin construction with Kevlar reinforcing and hard wearing gelcoat finish. Glass/foam laminate vacuum bagged hull for strength and lightness. Extreme impact and abrasion resistance and easy to repair. Replaceable landing pads. Four combination mooring cleats and lifting points. Front and rear stainless towing eyes. Anchor, chain and 100m rope supplied.

Control

Automotive steering wheel operated steering rudders. Fingertip thrust pitch buttons for hydraulically operated reverse pitch. Four on board ballast tanks with high volume pump transfer.

Cabin

Curved high visibility laminated automotive windscreen. Large side windows. Twin gull-wing doors. High quality marine cockpit gauges. Aerodynamically smooth cabin lines. Window wipers with integral washer system. Heating provided. Anti-fogging windscreen de-mister vents. Internal cabin light. Single central driver's seat.

Lighting/Electrical

Full marine navigation lights. 12 Volt electrical systems with 60 amp alternator. Double high amperage marine batteries. Amber strobe light. Bilge pumps in engine bay and cabin. Fire extinguishers.

Shipping

The Explorer 12 may be shipped on a single 40' flat rack.



Full instrumentation to indicate engine and craft performance



Stylish and spacious interior



Gull-wing doors for easy access



Excellent pilot and passenger visibility

SPECIFICATIONS

WEIGHT.....	2000kg empty
PAYLOAD.....	1000kg
LENGTH.....	8.8m
WIDTH.....	3.5m
HEIGHT.....	2.2m
CUSHION HEIGHT.....	0.45m
SEATING.....	12 passengers
POWER UNIT.....	275hp Cummins diesel engine
TRANSMISSION.....	Gates Polychain GT2 toothed drive belts
PROPULSION.....	1600mm diameter ducted propeller With fully reversible pitch control.
LIFT FAN.....	High flow aerofoil section composite centrifugal fan.
FLEXIBLE SKIRT.....	Full flow Neprene/ Nylon reinforced loop with anti-bounce web and reinforced neoprene segments
WAVE HEIGHT.....	1.2m
SPEED.....	35 knots
FUEL CAPACITY.....	240 litres diesel
FUEL CONSUMPTION.....	44 litres an hour average
NOISE LEVEL.....	At cruise speed 20m - 78dBA

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