

RAPID MARINE TRANSPORT. FASTER THAN ANY SHIP. CHEAPER THAN ANY AIRCRAFT.

EP-15 MULTI-PURPOSE MARINE EKRANOPLAN

Mid-range marine ekranoplan for high-speed passenger & cargo transportation



RDC AQUALINES

EP-15



Cruising flight mode

VERSATILE MULTI-PURPOSE VEHICLE FOR SHORT-DISTANCE PASSENGER AND CARGO TRANSPORTATION IN COASTAL AREAS

MAIN CHARACTERISTICS

Overall dimensions:

Length, m.....	16,3
Width, m.....	10,1
Height, m.....	4,6

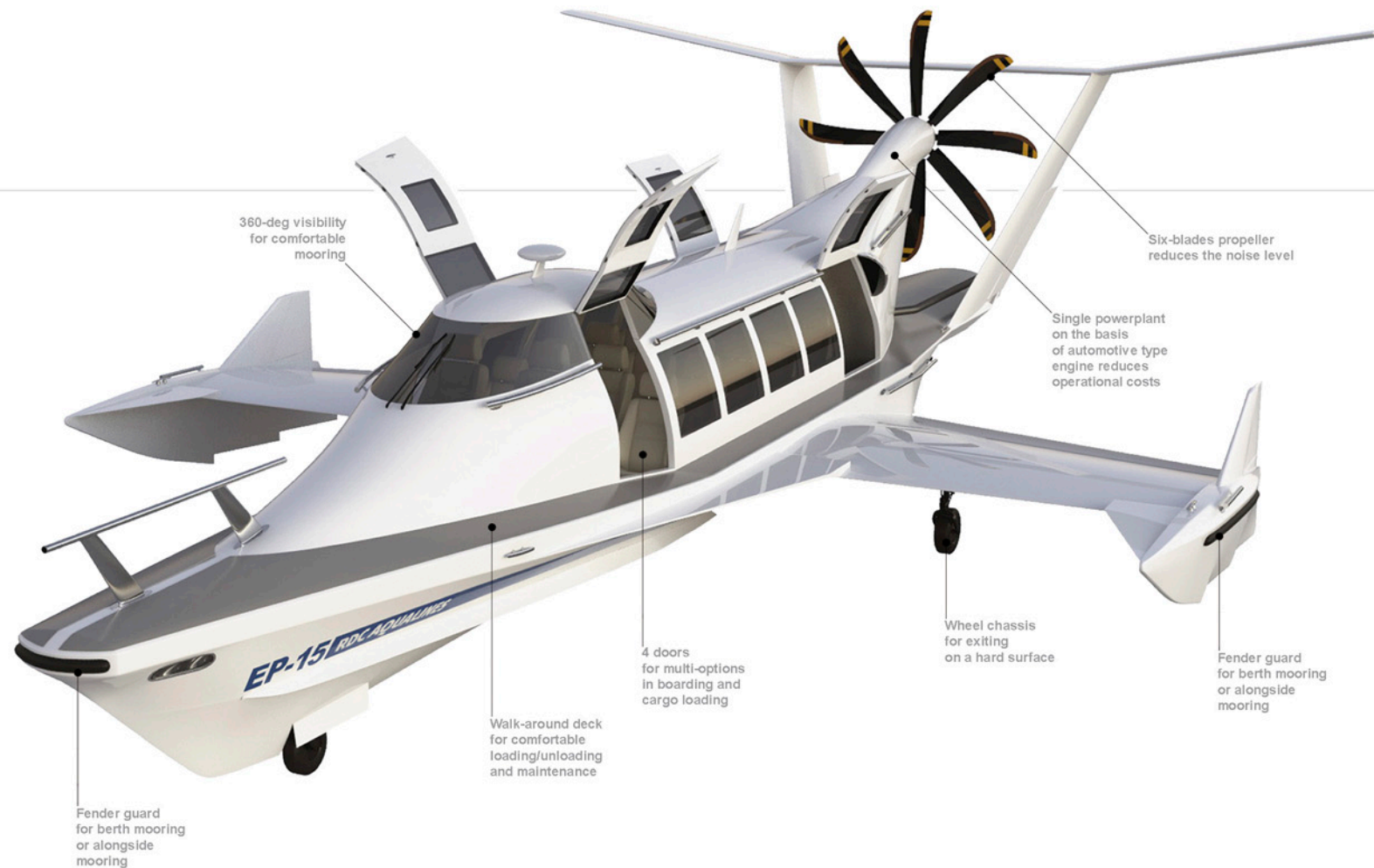
Full-load draught, m.....	0,6
Displacement (takeoff weight), t.....	4
Crew, pers.....	2
Passengers, pers./ cargo, kg.....	12*/1400
Maximum speed, km/h.....	200
Cruising speed, km/h.....	185
Takeoff speed, km/h.....	150
Displacement mode speed, km/h.....	20
Cruising flight height, m.....	1
Full-load range, km.....	600

Seaworthiness:

takeoff / landing, m.....	1
flight, m.....	1,5
displacement regime, m.....	2,2

Powerplant:

Engine, gasoline, power, hp....	1 x Chevrolet LSX454, 620
Maneuvering engine, hp.....	40
Fuel tank volume, liters.....	800**
Fuel consumption in cruising mode, kg/h.....	60



360-deg visibility for comfortable mooring

Six-blades propeller reduces the noise level

Single powerplant on the basis of automotive type engine reduces operational costs

4 doors for multi-options in boarding and cargo loading

Wheel chassis for exiting on a hard surface

Fender guard for berth mooring or alongside mooring

Walk-around deck for comfortable loading/unloading and maintenance

Fender guard for berth mooring or alongside mooring

INSPIRED BY AVIATION, DESIGNED FOR SEAFARING



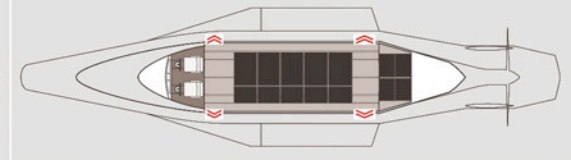
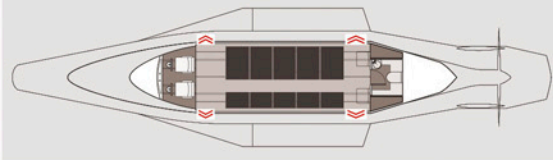
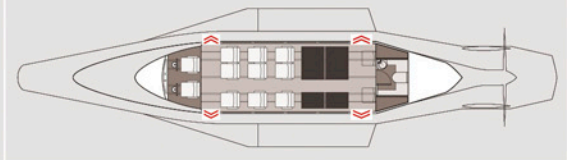
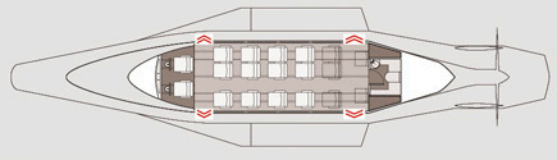
Spacious cabin with big windows provides a comfortable journey for passengers



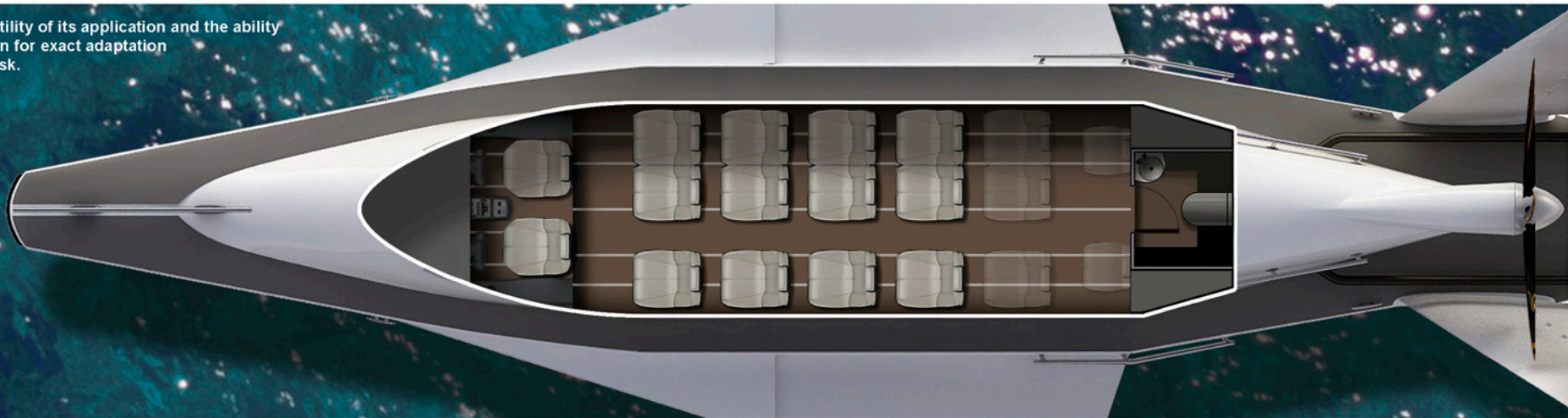
The passenger cabin may be partially or completely converted into the cargo cabin with flat floor if needed



Control cabin for two crewmembers is equipped with modern navigation equipment

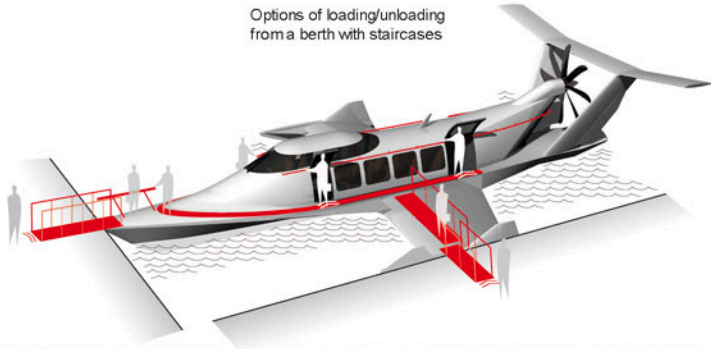


Cabin design implies the versatility of its application and the ability for crew to quickly modify cabin for exact adaptation to the current transportation task.



* Passenger cabin has space capacity for 15 passengers. However, current certification rules allow to take up to 12 passengers onboard (with this number of seats the craft is legally considered as a speed-boat). The number of crew members is not limited.
 ** When the cabin is fully loaded with passengers/cargo only 200 liters of fuel are available.

Options of loading/unloading from a berth with staircases



Options of loading/unloading from a hardstand with ladders



Options of loading/unloading on water with rafts when mooring is not possible



SAFETY

Fire prevention facilities:

Engine room is isolated with A – 30 class fireproof wall;
Automatic fire alarm and fire suppression system;
Fire extinguisher, fire bucket, aerosol fire suppression system;
Emergency lighting system.

Dehumidifying system:

Flood-and-drain system;
Automatic electric motor driven pump, portable hand pump.

Lifesaving equipment:

Life vests for all passengers including children;
Life rafts for all passengers and crew.

Signal lights and signaling system:

Navigational lights in accordance with IRPCS requirements;
Search And Rescue Transponder (SART);
Red parachute flares; buoyant smoke signals; red hand flares;
Emergency Position Indicating Radio Beacon (EPIRB).

OPERATION

Control cabin equipment (radio and navigation):

Magnetic compass;
Gyro compass;
VHF radio with Digital Selective Calling (DSC);
Electronic Chart Display and information System (ECDIS);
Radar;
GSM antenna.

Equipment:

Amortized take-off and landing gear (hydroski);
Wheel chassis (for exiting on the equipped platform with a hard surface and slopes up to 7°);
Anchor with anchor winch;
Foldable staircases for unloading on a hardstand;
Doors: 2 for passengers + 2 for cargo;
Railings for movement around the deck;
Deck is covered with nonslip coating;
Body: combination of composite materials and aluminum alloy;
Ventilation, heating and conditioning system;
Demountable lavatory.

Transportation to the operation area is carried out with marine transport.

EXAMPLE OF OPERATIONAL COVERAGE



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