



EXPLORER 16.9/100_6000 (H₂)

The Flying Yacht That Redefines Freedom

The Explorer introduces a new chapter in atmospheric mobility: a **100-meter flying yacht** that merges the elegance of a superyacht, the autonomy of a long-range aircraft, and the sustainability of next-generation clean aviation. Designed for visionary owners, sovereign clients, and global entrepreneurs, it delivers a level of freedom no jet, helicopter, yacht, or residence can match.

More than an aircraft, the Explorer is a **stabilized airborne environment** — capable of hovering at 70 meters and lowering occupants or cargo through elevators or dynamically stabilized capsules, even in zero-visibility conditions. It eliminates the constraints of runways, helipads, and open landing zones, enabling safe access to **deserts, islands, forests, beaches, mountains, estates, resorts, farms, and corporate facilities.**

Inside, up to **175 m² of panoramic living space** transforms travel into a serene, silent, vibration-free experience. Two-meter windows frame the world as it unfolds beneath you, while hydrogen propulsion ensures zero emissions and ultra-low consumption.

The Explorer does not simply shorten distances — **it multiplies possibilities.** A leisure vessel, a business tool, a logistics solution, and a mobile sanctuary, all in one.

TECHNICAL DATASHEET — ETERNAUS AIRSHIP DIVISION

1. Basic Dimensions

- Overall Length: 100 m
- Maximum Diameter: 16.9 m
- Maximum Cross-Section: 224.3 m²
- External Surface Area: 4,295 m²
- Displaced Volume: 15,567 m³
- Maximum Thrust: 20,230 kg



2. Structural Information

- Material: ALLOY 2090-T83 aerospace-grade sheet
- Plate Thickness: 0.4 mm
- Specific Density: 1.04 kg/m^2
- Tensile Strength: 70 kg/mm^2
- Allowable Stress: 15 kg/mm^2
- Transverse Prestressing: 8.8 kg/mm^2
- Longitudinal Prestressing: 4.4 kg/mm^2
- Operating Pressure: 420 mmca
- Maximum Allowable Pressure: 900 mmca
- External Compression Resistance: 420 kg/m^2

3. Operational Performance

- Operating Speed Limit: 280 km/h
- Superstructure Weight: 7,300 kg
- Accessories Weight: 3,400 kg
- Gas Weight: 1,560 kg
- Fuel Weight: 2,000 kg (H_2)
- Payload Capacity: 6,000 kg
- Total Operating Weight: 14,260 kg
- Displacement Factor: $0.009504 \times \text{vel}^3$

Range by Speed

- 70 km/h — 70 HP: 30,000 km (infinite with solar energy)
- 100 km/h — 210 HP: 15,400 km
- 140 km/h — 560 HP: 7,000 km
- 180 km/h — 1,200 HP: 4,500 km
- 210 km/h — 1,890 HP: 3,200 km



MAIN USES — EXPLORER (H₂)

A Multifunctional Platform With High-Impact Capabilities

Below is the **expanded, premium, Mercur-level version** of the Explorer's applications — now fully aligned with the depth and breadth of your other flagship platforms.

1. Flying Yachts & Ultra-Luxury Aerial Residences

A fully stabilized airborne yacht with **175 m² of panoramic interior space**, two-meter windows, and silent, vibration-free hydrogen propulsion. It offers runway-free access to:

- private islands
- vineyards and estates
- mountain lodges
- beaches and remote natural sanctuaries

A new category of **zero-emission luxury mobility**.

2. Advanced Air Mobility & Sovereign Transport

With capacity for **up to 70 passengers or soldiers**, the Explorer enables:

- sovereign mobility with absolute discretion
- troop deployment in remote regions
- equipment delivery without runways
- military operations at **14–20× lower cost** than helicopters

A strategic asset for governments and defense forces.

3. Industrial & Construction Operations

Exceeding the lifting capability of many **40-ton cranes**, the Explorer performs:

- aerial installation of HVAC units, cooling towers, and rooftop equipment
- construction of eco-lodges, treehouse hotels, and remote bases
- deployment of prefabricated structures in forests, mountains, or islands

No rigging. No ground impact. No heavy machinery.



4. Agriculture, Forestry & Environmental Missions

A high-efficiency platform for rural and environmental operations:

- aerial harvesting of tall-tree crops (up to 6 tons/day)
- reforestation with **35–40 adult trees per mission**
- fogging and spraying in mountainous or low-visibility terrain
- monitoring of farms, forests, and construction sites

Ideal for sensitive ecosystems and sustainable operations.

5. Health, Emergency & Humanitarian Response

Configurable as:

- a **240 m² airborne ICU**
- a rapid-response medical platform
- a disaster-relief and evacuation system
- a firefighting unit with **6 m³** of extinguishing agent

Medical capsules can be lowered directly to accident sites, bypassing traffic, terrain, and weather.

6. Premium Tourism, Leisure & Commercial Experiences

A high-revenue tourism asset with:

- **42 rotating panoramic seats**
- 175 m² of usable interior area
- canopy-level ecotourism
- premium sightseeing flights
- itinerant commercial operations in isolated communities

Creates a new category of **experiential aviation**.

7. Logistics & Distribution

With long-range autonomy and runway-independent operation, the Explorer supports:

- urban and intercity delivery networks
- transport of sensitive or high-value cargo



- distribution in regions without infrastructure

A powerful tool for express logistics and humanitarian supply chains.

8. Equine Transport — Stress-Free Mobility for Elite Racehorses

A unique capability among atmospheric aircraft:

- transport of **up to 10 racehorses**
- silent, vibration-free environment
- stable cabin pressure and temperature
- direct point-to-point routes between competitions

Horses arrive **calm, rested, and competition-ready**, improving performance outcomes.

9. Special Operations & High-Value Missions

The Explorer can operate as:

- a mobile corporate headquarters
- a scientific observation platform
- a discreet executive transport system
- a cultural or promotional airborne venue
- a remote-region access vehicle

Its autonomy, silence, and stability make it ideal for **strategic, commercial, and creative missions**.

10. A New Lifestyle for Global Entrepreneurs

The Explorer transforms travel into a seamless extension of home and office:

- a silent, stable interior
- panoramic workspaces
- family, guests, or collaborators traveling together

It does not merely shorten distances — **it expands the owner's world**.