

LZ-73 - small luxury airship concept

Peter Lobner, updated 8 February 2022

This is an exotic design by Denislav Videnovia circa 2013 for an all-electric, battery-powered airship capable of carrying a pilot and perhaps 4 to 6 passengers in rather luxurious accommodations.



Three LZ-73s in flight. Source. Tuvie.com

Basic design features:

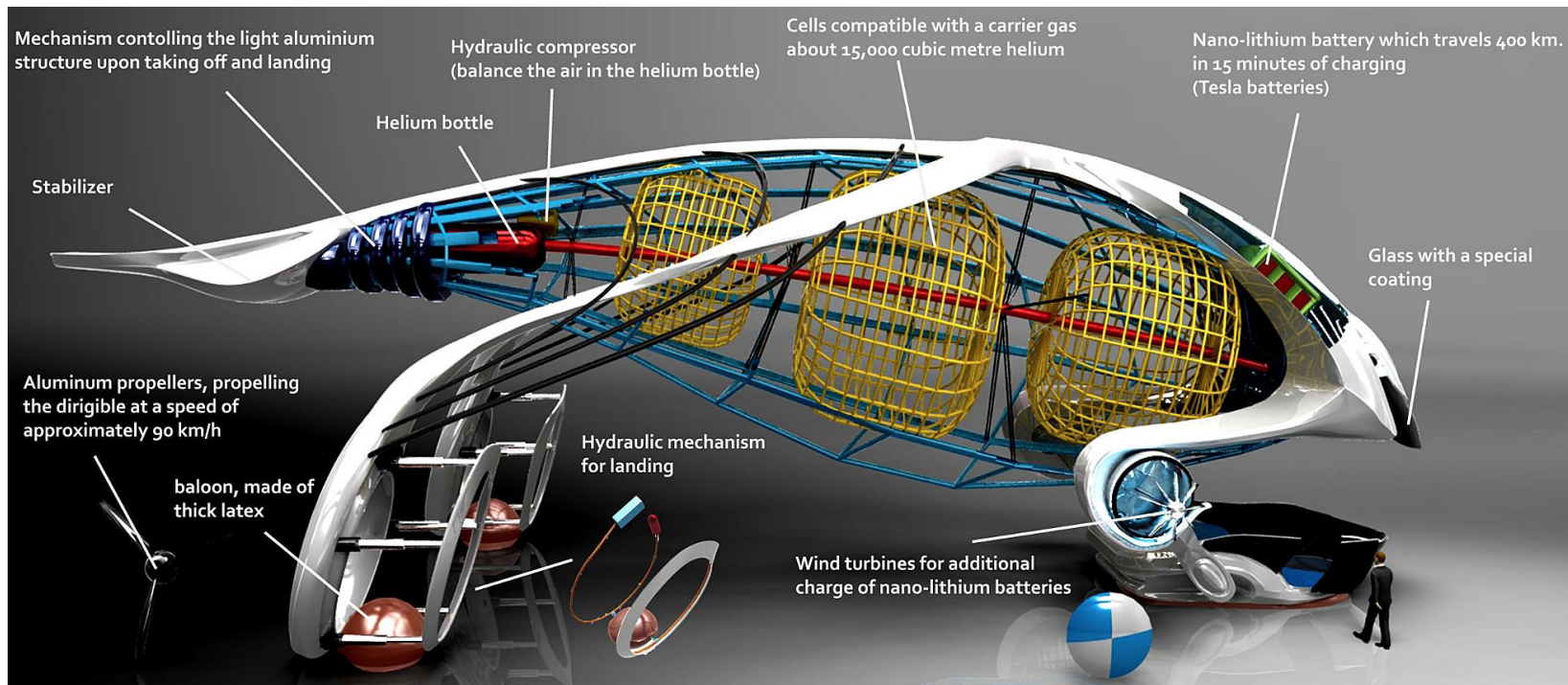
- Lifting gas volume: 15,000 cubic meters (530,000 cu ft)
- All lift is aerostatic: 100% from helium lift gas in flight
- Variable buoyancy control system:
 - Variable buoyancy is achieved by compressing some helium lifting gas and storing it in an on-board pressurized tank.
 - Capable of vertical takeoff & landing (VTOL) and hovering
 - Heavier-than-air on the ground
- Automatic flight controls in hover: digital controls manage hovering and position-keeping, even under windy conditions
- All-electric propulsion with vectoring thrusters for propulsion and maneuvering flight
- Zero carbon emissions
- Range: 400 km (249 miles) on battery power
- Speed: about 90 kph (56 mph)



Front quarter view with the passenger cabin extended for access.



*Bow-on view with the passenger cabin extended for access.
Source, both graphics: Tuvie.com*

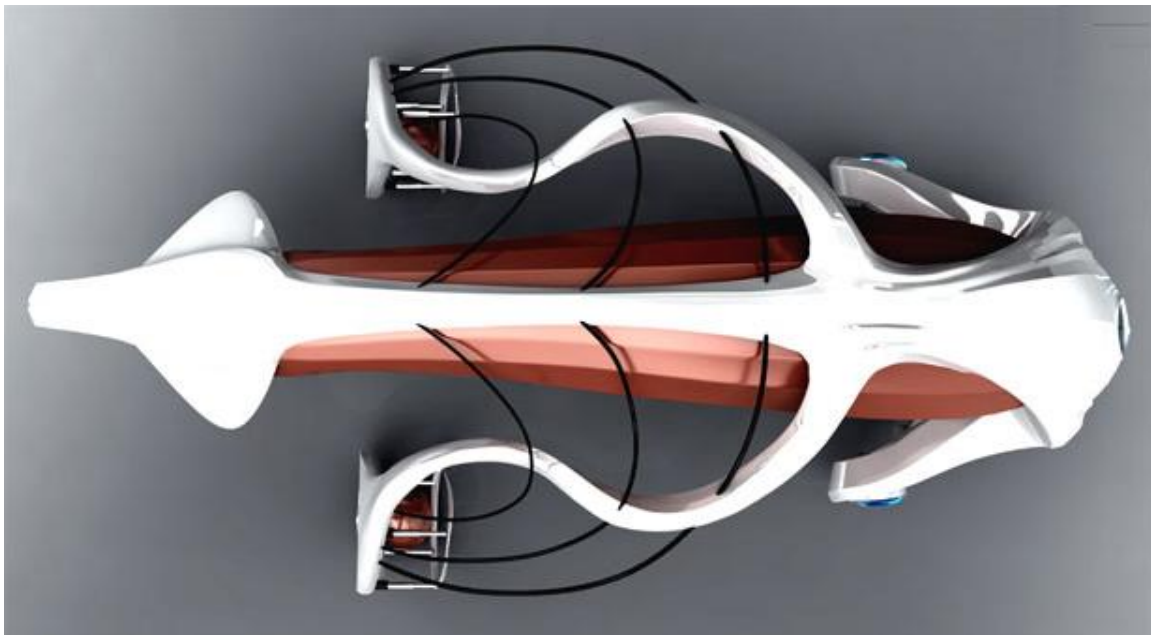


*Interior layout of the LZ-73. Note the scale with the figure of a person, bottom right.
Source. Tuvie.com*



Upon landing the lifting gas (Helium) is sucked out back in the bottle (the pressure in the bottles is balanced through a compressor).

Rear quarter view showing the main propulsors.



*Top view. Source.
Source, both graphics: Tuvie.com*



LZ-73 passenger compartment showing pilot station and passenger accommodations. Source. Tuvie.com

For more information

- Futuristic Airship LZ-73 Concept by Denislav Videnov,” Tuvie, <http://www.tuvie.com/futuristic-airship-lz-73-concept-by-denislav-videnov/>

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