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20' Selway-Fisher launch with 4.2kW POD motor

This Golden Bay launch was originally designed for a 12-15HP steam engine. The design has been modified to a length of 20 feet with amendments to the underwater hull to accept a submersible electric POD motor. The boat was built from the keel up with electric propulsion in mind and the owner/builder could construct it lighter as it does not have to accommodate a heavy steam or diesel plant. 'Flisan' weights in just under 1 tonne and its canopy will be covered in solar panels to help provide the energy for the electric motor.

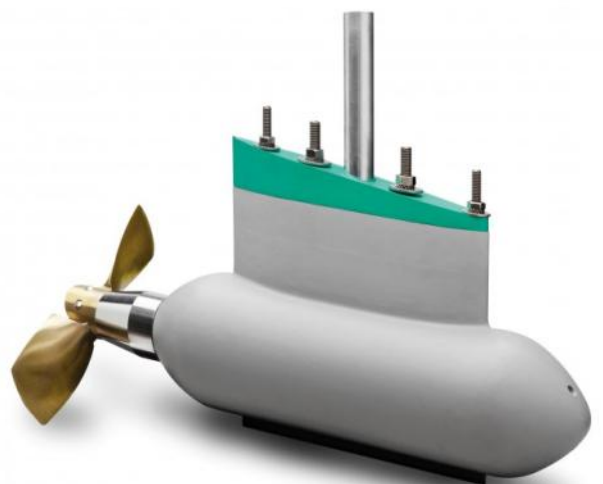


Flisan, powered by a quiet Pod motor

Flisan is powered by a Mastervolt-Bellmann 4.2kW (12HP) pod drive system, imported from Holland. The Pod motor is mounted under the hull, giving lots of interior space in return. The PMS permanent magnet synchronous motor delivers high torque, is low-maintenance and exceptionally quiet. It gives the boat a cruising speed of 4.5 knots at 900RPM and a top speed of 6 knots.



Pod motor with 3-blade bronze prop



48V AC electric POD motor



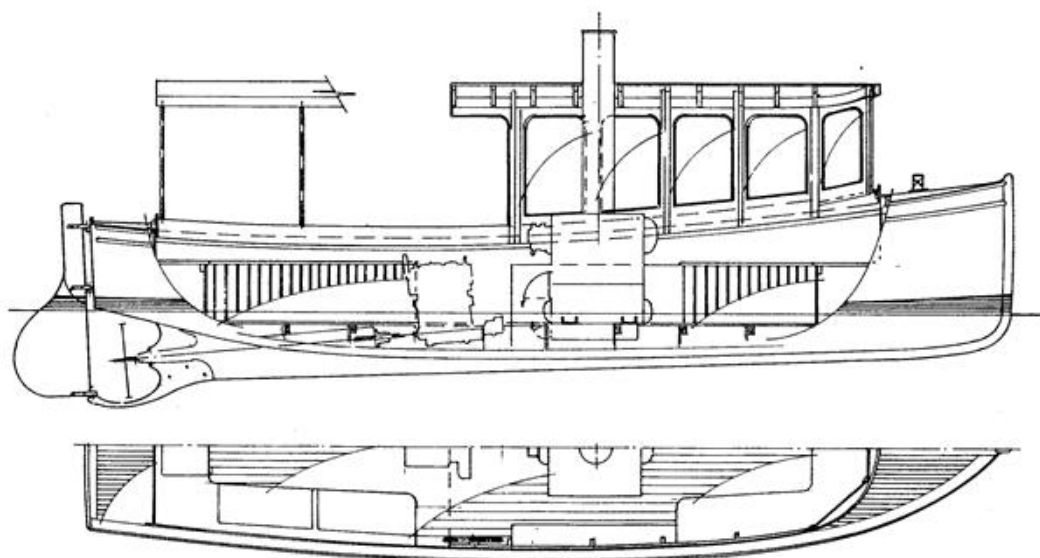
The display and throttle are built into the aft liner of the boat.



Early stage of construction

The electric POD motor is supplied with a 3 blade high pitch propeller (folding prop optional) that revs at 1500-1800RPM and generates maximum torque at any speed . As there is no reduction gear the drive system is exceptionally quiet and virtually maintenance free. The digital display gives all-important information such as battery condition, remaining running time and the power consumption in kW.

The electric motor is powered by 8 x 6V 225Ah batteries (48V battery bank). An on-board 3-stage charger provides automatic charging and solar panels on the rooftop will assist in keeping the battery bank topped up.



Study plan for the Selway Fisher / Golden Bay launch



For more information on electric propulsion visit:

www.ecoboats.com.au

For more info on the building process:

http://www.tradboatsact.com/gallery_Peter_Hawker.html