

## **EAGLE**

LOA 36.3', LWL 32.3', Beam 8.5', Draft 2.5'  
Displacement 5000 lb (5850 lb/ .75 tankage)  
Designers: Ted Brainard and Michael Mason  
Built 2000 by ABCO Industries Ltd., Lunenburg, NS



*Eagle* was designed as a coastal cruising power yacht with several purposes in mind, including family recreation, coastal cruising for a couple, deep-sea fishing off the coast of Nova Scotia, and transportation back and forth to Big Gooseberry Island. Additional design objectives were to provide a very energy efficient and quiet platform, and to require minimum upkeep.

*Eagle's* design is the product of the integration of many existing designs, and creative inputs from the owner's friends. The drawings for the yacht were prepared by Michael Mason, a designer located in Bridgewater, Nova Scotia. The hull construction is aluminum used for light weight and corrosion resistance. The power plant is a 90 HP four stroke Honda 4 cylinder outboard. There is 100 gal. of fuel capacity. At 2.8 gal / hr at 10.5 knots (3500RPM), the yacht has a range of 375 miles. Fresh water capacity is 35 gal.

*Eagle* is sparsely finished, with two bunks in the main cabin and a V-berth forward. There is an enclosed head. The galley is 6.5 ft in length. Cooking is with an Origa alcohol stove. The cabin is heated with a propane forced draft heating unit. Minimum teak trim is employed to reduce maintenance and weight.

*Eagle* is very stable, with the center of gravity 2.8' above the keel. Six men standing on the rail only induce a 10 degree heel angle. The carrying capacity is excellent, with one

inch of sinkage for each 1000 pounds of added weight. The hull holds a nearly constant pitch angle from minimum speed to flank speed at 18.5 knots. Due to the high length to beam ratio and small deadrise aft, the hull does not squat at higher speeds, and it has a nearly linear fuel consumption versus speed curve.

*Eagle* cruised from Chester, Nova Scotia to Marion, MA during the fall of 2003. The next spring she cruised up the Hudson River to Albany, and returned to Nova Scotia making a circumnavigation of Manhattan Island. She has proved to be very able in rough conditions, and provides a very comfortable and quiet ride.



This view from astern shows *Eagle's* cockpit, steering station, and engine arrangement.



The cabin includes a proper table with berth/seats outboard on each side, and a V-berth forward.



The galley and enclosed head are adjacent to the companionway. Note the propane cabin heater and multiple fire extinguishers.

