

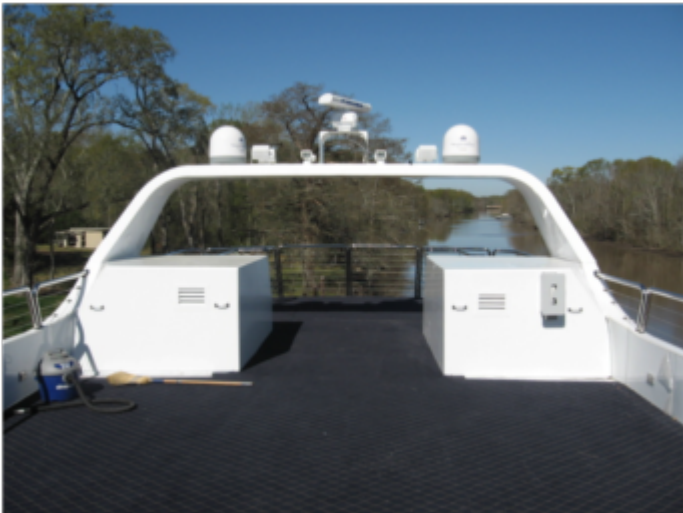
VENETIAN LADY was built in 2007 for Venetian Lady Yacht Charters (Miami, FL) <https://biscaynelady.com/luxury-yachts/venetian-lady>. The vessel features gourmet dining for 140 guests in two dining rooms. The vessel has two dance floors and two full bars on three decks. There is a full galley located below the main deck. Dimensions are 130’ LOA x 30’ beam. Alan carried out a large part of the marine engineering and electrical design for this Coast Guard-inspected (Subchapter T) passenger vessel. The overall design of the boat was carried out by One2Three Pty. Ltd. (Melbourne, Australia). Interior décor is the creation of Lisa Parsiola (South Bend, IN).

Given the sub-tropical location, there is no need for interior heating, but there is a large air-conditioning load. Alan carried out thermal load analysis, coordinated the selection of HVAC vendors and major components, and arranged the (5) air handlers, the modular chiller unit, the associated seawater piping, freshwater piping, and the ductwork. The attached sheet (3606-3C-1) is an example of the HVAC design.

Alan carried out an electrical load analysis for both the AC and DC electrical systems, which lead to the rational selection of generators, batteries, and battery chargers. Subsequently Alan designed the electrical distribution (one-line diagrams), of which the attached sheet (3606-4) is an example. The attached photos show two of the air handlers which are located on the uppermost “Sky” deck.



One of the air handlers, shown during installation on the Sky Deck



The two air handlers on Sky Deck are enclosed in the weather-tight cabinets

