



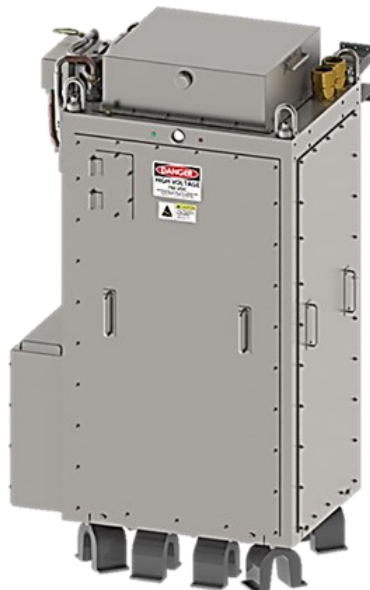
Mechanical Integration - Electrical Systems - Marine Services

(757) 384-1957

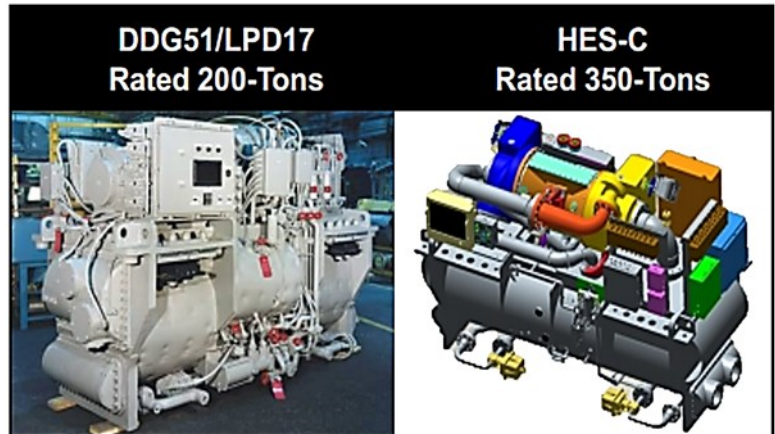
650 Chautauqua Avenue, Portsmouth, VA 23707

High Efficiency Super Capacity (HESC) Variable Speed Drive

Fairlead designed and delivered a First Article High Efficiency Super Capacity (HESC) Variable Speed Drive (VSD) to the customer for use in various U.S. Navy platforms including LPD, DDG, and LX(R). It is the first ever refrigerant-cooled drive in a Navy application.



VARIABLE SPEED DRIVE



LPD



DDG



LX(R)

The drive powers a 432 HP permanent magnet motor inside the compressor section of the A/C Plant and uses Sensorless Motor Control algorithms. It is the largest U.S. Navy VSD program of record and the Navy expects to procure 10 to 20 VSDs per year for the next 15 to 20 years. Fairlead manufactured 15 drives to date.

The 350-ton HESC chiller fits the footprint of the legacy 200-ton chiller and uses less power. The new chiller provides significantly higher cooling capability, while holding size and weight, and increasing power margin to the ship.

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