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United Launch Alliance Pad #37



Cape Canaveral, Florida-- Providing 24/7 cooling

CHALLENGE

The United Launch Alliance Pad CCAFS Launch Site SLC37B is a launch complex sending rockets to space located on Cape Canaveral. This site was accepted by NASA in 1963 to support the Saturn program. Site #37 needed to retrofit the existing equipment, but required a custom solution. Dunham-Bush Americas was called upon to advise and solve this issue. The ULA needed a system that could meet the high standards, demands, and regulations of the pad. The system is required to operate 24/7, 365 days a year. If any mishaps were to occur it can halt, or even shut down the operation of the pad.

SOLUTION

DBA provided (2) 400TR air cooled rotary screw chillers, each chiller has (4) semi hermetic vertical compressors for complete redundancy. The compressors are located in a sound reduction cabinet which helps to provide a quiet operation of the chillers and does not interfere with the launch pads daily operations. Due to the proximity of the chillers location to the ocean the cabinet and frame were coated with an anti corrosion protection to ensure longevity to the equipment.

RESULTS

The ULA Pad #37 transitioned smoothly and, successfully from the existing equipment to the new retrofit. The rigorous demands across the board were met, and the pad is able to operate at the design conditions needed. The equipment proved a viable fit, and all space shuttles have successfully blasted off due to the adequate solution.

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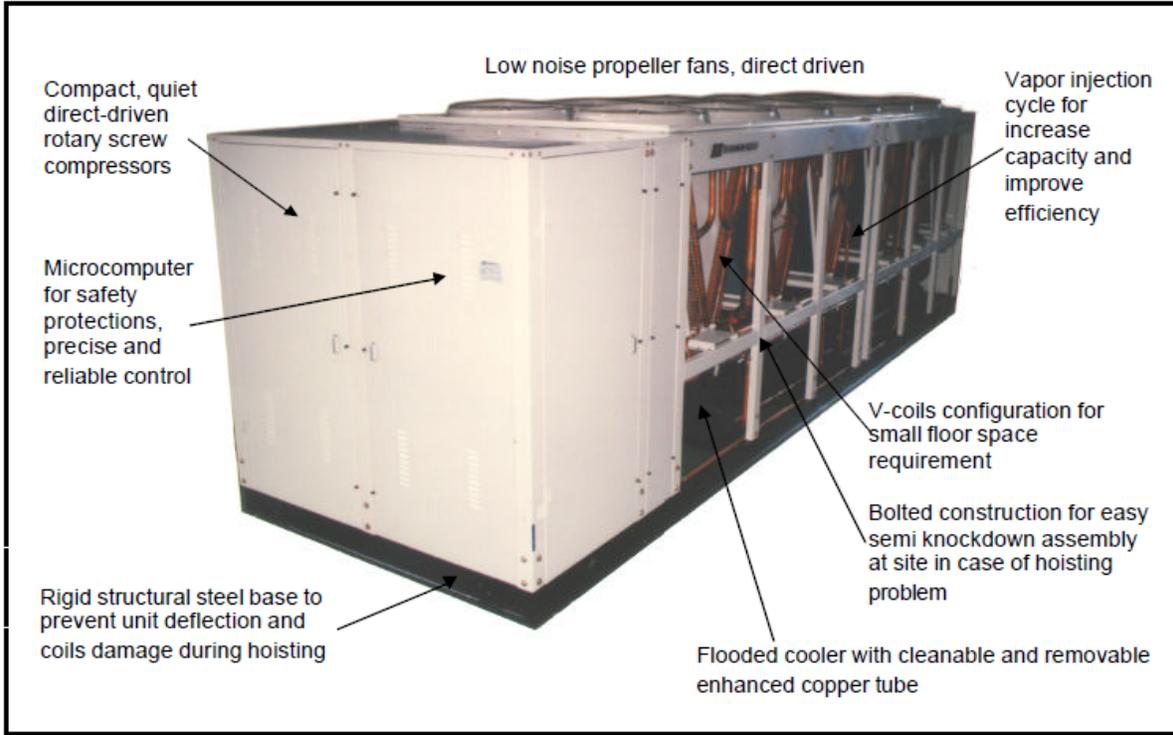
THE SPECIFICS

- ▶ (2) ACFX400-6Q with Semi-hermetic vertical screw compressors
- ▶ Noise reduction package
- ▶ Anti-corrosion protection
- ▶ Factory start-up and training



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ACFX AIR COOLED ROTARY SCREW CHILLER



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