

McQuay Turbocor Installation



- Removal of One 320-ton Trane CVHA
- Install Two 160-ton McQuay Turbocor Chillers
- Added Redundancy / Increased Efficiency
- Piping Redesign for Dual Chillers
- SMUD Energy Rebate
- First Turbocor Chillers in Sacramento
- Environmentally Friendly R-134a Refrigerant
- Turn-key Chiller Replacement by ACS



AMERICAN CHILLER SERVICE, INC.
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McQuay Frictionless Chillers Engineer \$25,000 in Estimated Energy Savings At California State Railroad Museum

John Burdette of Norman-Wright, collaborating with Robert Strebel of American Chiller Service, Inc., introduced cutting edge technology to an institution dedicated to preserving technology of the past, when they convinced the California State Railroad Museum to replace their existing 360-ton Trane centrifugal chiller with two McQuay 160-ton Frictionless Centrifugal Compressor Chillers.

Originally contacted to perform a service call, Robert Strebel recognized an opportunity to save the museum money by collaborating with John and offering McQuay's newest chiller. Earlier John had discussed the efficiency of the new McQuay Frictionless chillers. These unique chillers utilize Danfoss Turbocor centrifugal compressors, the most efficient compressors available today.



Turbocor compressors use non-contact magnetic bearings rather than conventional oil-lubricated bearings—thereby eliminating the need for the oil support system, which in turn significantly reduces maintenance costs. Up to 30% more efficient than conventional compressors in the same capacity range, the Turbocor compressors are half the size of traditional compressors, are extremely quiet, and offer outstanding operating efficiencies at both full and part load.

In addition to selling the museum on the new technology, John and Robert also helped arrange for partial funding of the chillers through an innovative program offered by the Sacramento Municipal Utility District (SMUD). The Customer Advanced Technologies (C.A. T.) program provides funding for customers who want to use energy saving equipment in exchange for monitoring rights.

Preliminary energy analysis showed that the new McQuay chillers could save the museum more than \$25,000 in annual energy costs. SMUD is monitoring the museum's energy use and will have a full report in the fall of 2005. Congratulations, John, on helping the State of California save money and conserve energy with the innovative McQuay frictionless chillers.