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CASE STUDY

Denver International Airport — Chiller Relocation and Upgrade, DENVER, COLORADO

TRANSPORTATION

AIRPORTS

OPERATING COMPANY:
Trautman & Shreve

CLIENT:
City and County of Denver
Municipal Airport System

ENGINEER:
Behrent Engineering

PROJECT DURATION:
10 Months

COST:
$2,400,000

VALUE DELIVERED

More efficient operation, energy cost savings, increased comfort and productivity, greater return on investment.

SCOPE OF WORK

During the project's first phase, the company removed and relocated a York 2,500-ton chiller and two 250-horsepower pumps. The scope of work called for field assembly of a motor-driven centrifugal compressor, as well as the motor, gear box, evaporator, condenser, intercooler, controls, and panels, including gauges, indicating lights, auxiliary components, and accessories.

During the project's second phase, the company installed a new motor, gear box, starter assembly, controls, control panel, and other devices to retrofit the relocated chiller to an expanded full-load capacity of 3,300 tons. The firm also upgraded existing piping in the central plant complex.

BACKGROUND

Situated on 34,000 acres or 53 square miles, Denver International Airport is one of the largest airports in the world. From the expansive and beautiful Jeppesen Terminal to Colorado's second largest public art display, it is renowned for aesthetics, aviation safety, customer satisfaction, and passenger convenience. It is the nation's fifth-busiest airport and the 10th-busiest in the world.

TECHNICAL SOLUTIONS
Relationships
Quality Service
VALUE ENGINEERING
Experience
Project Schedule & Coordination
EXPERTISE

- [ ] New Construction
- [ ] Retrofit
- [ ] Electrical Construction
- [x] Mechanical Construction
- [ ] Facilities Services
- [ ] Consulting Services

Trautman & Shreve
Mechanical Contractors & Engineers
An EMCOR Company

4406 Race Street
Denver, CO 80216
T: 303.295.1414 F: 303.295.0324
www.trautman-shreve.com

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OBJECTIVES

To extend the payback of a chiller from another site by relocating it to this facility and upgrading it to meet the facility's increased capacity requirements.

SOLUTIONS

Prior to project startup, Trautman & Shreve provided design, budgeting, and scheduling services, as well as constructability analyses and value engineering recommendations. During the first phase, the chiller was relocated and returned to operation in 60 days.

For over 68 years, we have been providing complete mechanical contracting services, including engineering, design, installation, and service of reliable, efficient, and economical HVAC, plumbing, process piping, refrigeration, and building automation systems.

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