

Commercial Industrial Cooling Project Fact Sheet Lodging, Gaming & Entertainment Segment



Harrah's Rincon

Near Escondido, California, North America

Project Summary

- **Chilling System**
 - H-4C Chiller Plant 1,200 Tons
 - 1 X Trane 770 CVHE Centrifugal Chiller
 - 1 X Trane 500 CVHE Centrifugal Chiller
 - Expandable to 2,800 Tons
- **Ambient Design Conditions**
 - 92°F Dry Bulb; 69°F Wet Bulb
 - Chilled water supply temperature of 42°F (16°F DT)
- **System Benefit**
 - Operates at 0.771 KW/ton @ peak conditions
 - Compact plant has room for ultimate 2,800 ton phased capacity



Project Description

Harrah's Entertainment Inc.'s second project with TAS required 1,200 TR installed on an expedited basis. The facility is remotely located in the mountains 50 miles north of San Diego. The same tight space, operational and budget constraints existed as at their Bossier City, Louisiana site. Based on previous experience with TAS and the Packaged Central Plant solution, Harrah's opted to chose another packaged central plant product, relying on the proven quality, delivery and performance elements.

The plant was delivered within five months of contract date and site installation by a local contractor was completed in 4 weeks, on schedule and on budget. All required site operational and performance targets were met.

The self-contained plant TAS H-4C plant is anchored by one (1) Trane nominal 400 ton and one (1) nominal 800 ton CVHF centrifugal chiller in a parallel flow configuration, two (2) 100% variable speed chilled water pumps, three (3) 50% condenser water pumps, two (2) cell cooling towers with variable drive fans, and associated piping and insulation. This integrated design provides Harrah's with the most efficient chiller system at full and part load conditions. All components, including the cooling towers, are optimized with an integrated Trane Tracer Summit Central Plant Manager that allows remote monitoring.

Corporate Overview & Contact Information

TAS Packaged Central Plants (TAS) is the worldwide leader in packaging central chilled water plants. TAS' large range of packaged chilling products, ranging from 500 to over 8000 tons provide our customers with the flexibility to match cooling needs with a compact, efficient and cost effective TAS packaged product designed for lowest life-cycle cost and highest net present value. TAS Packaged Central Plants is the commercial and industrial cooling division of TAS, Ltd. TAS, Ltd. is the exclusive packager of Trane centrifugal & absorption chillers for both power and commercial cooling applications. TAS has delivered over 300,000 tons of packaged central plants worldwide for commercial and industrial applications and has an ongoing commitment for continual improvement of quality and products throughout all of its business segments.

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