

# TECOCHILL®

- Gas engine-driven screw chiller
- Two 175 refrigeration ton units
- 192,000 sq. ft. office space and three clubhouse restaurants
- Queens, New York



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**New York horse racing fans can bet on staying cool with two new TECOCHILL® chillers installed at the racetrack. Rebate programs, along with significant savings in cooling costs, make natural gas cooling the winning choice.**

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Management at Aqueduct Racetrack was faced with the decision of either making costly repairs to the diffusion well system used with their existing electric chillers or finding a suitable replacement. Utility costs were of primary importance in selecting the replacement system. Wanting to avoid expensive demand charges for using electric systems during peak hours, natural gas was the logical energy choice. After analyzing the available choices, two TECOCHILL® CH-175 units were installed.

In addition to estimated energy cost savings of \$73,000 a year, Aqueduct was able to take advantage of rebate programs offered by both Con Edison and Brooklyn Union Gas,

that saved another \$245,000, making the decision to go with natural gas even more attractive. With energy cost savings and rebates the payback period is calculated at three-and-a-half years.

Assistant Track Manager James Morrison summed up the switch to natural gas cooling: "What we essentially have is a win-win situation. We are cost-effective using gas versus electric, and we've eliminated the need to make expensive repairs to our old diffusion well system. With savings of about \$73,000 annually on energy alone, we will easily achieve our payback objectives."

Gas engine-driven chillers use the same cooling processes as conven-





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tional electric-powered systems. The main difference is the electric motor is replaced with a natural gas-powered engine. The switch results in variable-speed operating capacity not available with electric systems, plus higher part-load efficiency. Output can be modulated from zero to 100 percent of load with the TECOCHILL® unit.

Another benefit Aqueduct enjoys with its natural gas engine-driven chiller is the optional engine heat recovery system package, which efficiently generates domestic hot water.

A microprocessor-based control system allows for fully automatic operation and enables in-house engineers to continuously monitor system performance. An optional telecommunications package is available that permits remote real-time monitoring and control of the system via telephone.

In addition to using the environmentally preferred refrigerant, HCFC-22, the entire TECOCHILL® unit is manufactured in the United States.

