



- Gas-fired absorption chillers
- 300 total refrigeration tons
- 136 bed hospital complex
- New York, NY



New York City was suffering from a rash of abandoned children at the end of the Civil War, and one of the most popular drop off points at the time was St. Peter's Convent. Sister Mary Irene of the Sisters of Charity, who was a resident of the convent, saw the need these children had for care and responded by starting what would eventually become known as the New York Foundling Hospital. Started as a "Foundling Hospital" or orphanage, it has evolved to take on a broader mission to "help children and families succeed."

Recently, the hospital found themselves in need because of a failing cooling system and turned to Yazaki Energy Systems, Inc. (YESI) for a solution. Thanks to the help of Ernie Biron of Carrier Commercial Building Services in New York, they chose Yazaki gas fired absorption chiller-heaters for this critical facility that requires cooling 24 hours a day. Space was a major factor in the selection process, as the units had to be installed in the basement of the existing hospital structure and meet the performance requirements of the building. Yazaki's solution was to offer three 100RT chillers for a total of 300 RT that were able to be rigged one unit at a time. Using circular tube bundles, the Yazaki chillers don't require tube pull space which made it possible to locate the machines in the existing mechanical room. Since the chillers do not require an onsite operating engineer, the building operating expenses are kept low. They also offer the advantage of using natural gas in the summer when the off peak gas rates are most favorable.

NY Foundling Hospital reduces its electrical load by cooling with natural gas.



Since the chiller plant is made up of three modules it is easy to stage the load while offering more redundancy than a single chiller system. The Yazaki chiller produces low noise and no vibration. This lowers the installed cost as expensive machine room sound attenuation is eliminated and vibration isolation is not required. These features are critical performance factors for an acoustically sensitive project such as a hospital.

Yazaki Energy Systems is proud to partner with Carrier Commercial Building Services on this project to meet the challenge of providing reliable cooling for a critical hospital application.

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