

University of Dayton

Total Project Cost

\$330,000

Heapy Solutions Sub-Contractors:

- Wat Kem Mechanical
- Chapel Electric
- Johnson Controls



Roesch Library Boiler Replacement

Project Overview / Scope:

- 223,000 SF University Library
- Not looking for just a one-for-one replacement
- Engineering analysis conducted
- Produced Construction Documents
- Provided all Construction Coordination for owner

Project Accomplishments:

- Developed most cost-effective long term solution
 - Original Plant oversized
 - **Engineered sizing saved over \$40,000 in first cost**
- New plant (3 boilers) provides **redundancy** in the event of boiler downtime
- Engineered **hybrid** approach
 - Incorporates condensing and high-efficiency non-condensing boilers
 - System design maximizes condensing boiler efficiencies during off-season
 - Design allowed for re-use of existing HVAC system HW Coils
 - **Performed flawlessly in record cold winter of 2013-14!**
- **Energy Savings** versus original system approximately 15%
- Project **completed on time** and **without impacting** library operations

