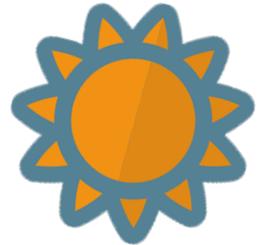


THE GRAY LINE

By Technical Systems

February 2019

No one likes being inside sweating because the building's cooling system is in need of replacement. In a room that can hold approximately 200 people, your cooling should work properly but this wasn't the case for Chesapeake Christian Fellowship's Sanctuary. When commercial equipment could not meet their needs The Gray Line from Technical Systems saved the day by offering the best combination of engineered products designed and built to meet their needs.



The Problem: Keeping Costs Low

CFF's old, inefficient cooling system was in need of replacement. However, they needed to minimize project costs and stay within a tight time schedule to complete the job. The site was limited by their existing electrical supply, and replacing that supply to fit "off the shelf" equipment would be costly. The other guys said it couldn't be done, but TSI was able to design a cooling system that would fit seamlessly with the existing electrical supply, have higher energy efficiency and be quieter than the original units.

The Solution: A New Refrigeration System

Although TSI had a higher initial equipment cost, they kept the total installed cost low by working with the existing electrical supply. TSI provided a new condensing unit that was cross plotted with a new evaporator coil to ensure seamless operation across the entire operating envelope of the system. By providing an engineered solution and giving the client timely support, TSI provided a complete solution that stayed within electrical requirements, improved peak and part load efficiency all within a quiet package at a minimal job cost for the contractor.

Key Takeaways:

- Lowest cost of equipment isn't always the lowest cost of ownership.
- Problems are best solved when understood. In this case, the electrical service limitation was the second most important consideration with the first being the replacement of the equipment.
- Variable speed compressors, condenser fans and cross plotted evaporator coils designed to remain under the power limitation and delivered exceptional efficiency and low sound
- Meeting electrical requirements saved the customer time and money by avoiding numerous changes to the existing systems.
- Quick response time and reducing installation time allowed the customer to stay on track with their project timeline.
- Exact replacements by RAE Coils, a division of RAE Corporation, minimized installation time and gave the owner assurance of a complete and balanced system by a single manufacturer.



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