

High Rise Building Cooling

United Rentals PHVAC was asked to design and install a temporary 800-ton cooling system for the New FMC Tower in Philadelphia.



The temporary cooling system was needed to condition the 13th–22nd floors as part of both the new equipment validation and the arrival of the initial tenants of the building. Although the permanent mechanical equipment was in place, the temporary solution was preferred since, once the permanent equipment was placed in service, the warranty period would begin. Leveraging a strong general rentals relationship with the Construction Manager and project mechanical contractor, the United Rentals team helped them maintain the critical schedule for this project by using the PHVAC system.

How

In addition to three 440 Ton Air Cooled Chillers and two High Capacity High Head Pumps (Pump Solutions), the standing hydraulic pressure in high rise construction required the use of two plate and shell heat exchangers to prevent over pressurization of the air cooled chillers.

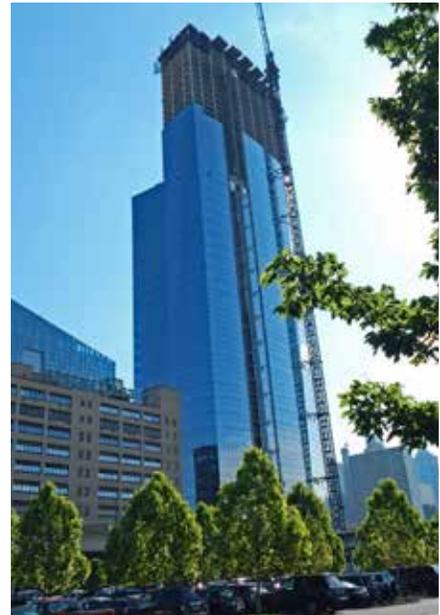
Who

The PHVAC OSR thoroughly understood the building mechanical and air distribution processes prior to recommending a solution. In addition, the PHVAC OSR also understood the various roles of the project stakeholders and was very effective at blending multiple desired outcomes into a “best fit” solution. This successful complex solution confirmed to both the Construction Manager and project mechanical contractor that our capabilities of Project Engineering and Design were the key and critical difference when selecting UR PHVAC as a partner.



What's Next

The process cooling system will remain online through the Fall of 2016, and will be considered as the template for similar future opportunities.



The chillers were configured for low temperature duty to match the performance criteria of the permanent mechanical equipment.

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