

Case Study

Wilkes University

Boiler Replacement Needs: Existing boiler was original to the building and had a leak from a crack in the casting. The failing boiler had no modulation, just low-high-low, which resulted in low efficiencies due to the boiler turning on and off instead of adjusting to the temperature outside. The boiler room is on the roof of the building with difficult access. It housed a single boiler for central heat only, two boilers with matching indirect water heaters and an additional direct boiler to supply domestic hot water.

Project Installation Date: October 27, 2013

Type of Facility: 48,000 square foot multi-use building

Name of Building: Frank M. & Dorothea Henry Student Center

Location: Wilkes-Barre, PA

Construction Details: Total Number of Boilers Required for Job - Two

Solution: Weil-McLain® SlimFit™ SF1000L and SF1000R



New SlimFit Boilers



SlimFit LCD Touch Screen



Frank M. & Dorthea Henry Student Center

Case Study *(Cont'd)*

Wilkes University

Details:

The building was constructed by the Quandel Group, Inc. of Pennsylvania in 1999. The student center is the hub of extracurricular activities for both resident and commuter students. The facility has a three-story sky lighted atrium, first-floor fireplace and a patio with a balcony that overlooks the Susquehanna River. The student center houses a café, food court, office and meeting rooms, ballroom, TV lounge and campus mail facility.

The University decided to replace a single cast iron 2 million BTU boiler with two high-efficiency 1 million BTU boilers. Two Weil-McLain SlimFit High Efficiency Condensing Gas Boilers, SlimFit SF1000L and SF1000R, were selected for the job. The packaged boiler is on wheels and the compact design requires minimal clearance – it fits through most typical doorways and allows side by side installation. The SlimFit is available in the left or right side configuration and the panels are interchangeable. Factory standard SOLA control display ships on the long side but can be moved easily

by unbolting the brackets and re-installing on the long side or the short end. The advanced SOLA control system easily integrates with existing building control systems and displays information on a color touch screen LCD. The SOLA control also offers flexibility with LEAD/LAG rotation and is CSD-1 Compliant as standard. Using a BACnet converter, the boiler system easily integrates with the existing Johnson Controls Metasys® for remote modulation capability.

Installing two high efficiency condensing SlimFit boilers ensures system reliability and efficiency gain. With combustion efficiency ratings up to 96.1% the SlimFit satisfies the same needs that could be provided by a larger system but without the inefficiencies. The configuration of the controls was simple due to the intuitive display and plug and play installation. The start-up was supervised by Weil-McLain staff and the facility manager received onsite training. The SlimFit installs fast and is built to last.



Rooftop Boiler Room



New Copper Water Connections



New SlimFit Boilers