

WestView Manor Boiler Replacement

Project Location: Wooster, Ohio

Project Date: 2006



New Boiler Building



New Condensing Boilers

Project Description:

A nursing homes aging heating water boiler plant and separate laundry domestic hot water boiler plant were both rapidly failing. The existing systems were located in a cramped basement mechanical room that did not facilitate maintenance and had code clearance violations with electrical panels. The existing systems were replaced with new state of the art equipment for long life expectancy and for high operating efficiency.

Due to spatial and rig limitations as well as installation coordination to minimize downtime, the new heating water boiler plant was installed in a new boiler house with buried connector piping to the existing nursing home. The new laundry domestic hot water boiler plant was installed in the existing basement mechanical room which now had sufficient room.

The existing boiler plant consisted of two (2) 40 year old natural gas, fire tube boilers each with an input capacity of 4200 MBH. The new boiler plant features a pair of high efficiency condensing boilers each with an input of 3361 MBH. The original heating pumps and piping were not properly arranged to provide complete back-up in case of a pump failure. In addition to correcting this deficiency, the new design and installation also replaced most of the original heating water piping that was in tunnels beneath the nursing home. The new boiler building not only allows space for proper maintenance of all of the new equipment, but also provides better access for future replacement of the major components.

The laundry boiler plant was not only failing; but was also undersized. The new system utilizes a 999 MBH input sealed combustion copper fin tube boiler and a pair of 284 gallon storage tanks with new circulating pumps.