

Existing Mechanical Systems

The following is a list of major system components based on design data from University Ridge at East Stroudsburg. These buildings are each 4 stories and have an overall size of 140,000 ft². The primary use of the facility is apartments for student housing. There is also a commons area with lounges, offices and conference rooms. The following is a basic summary of the mechanical systems for these buildings.

University Ridge contains 153 apartment units with a dedicated duct furnace air handling unit for each of the units. These units are purely re-circulatory. Heating capacity is supplied by hot water coils with hot water supplied from the domestic water heaters. Cooling comes from individual condensing units for greater control. The duct furnace air handlers for the commons area are individually gas fired and are cooled in the same was as the apartments.

The water heaters that supply domestic hot water and hot water for the duct furnaces fired by natural gas and are sized according to the National Plumbing Code with adjustments for the HVAC demand. All other water heaters are electrically heated for spaces such as public bathrooms and mechanical rooms.

There are individual exhaust fans for each bathroom in which they are controlled intermittently.