

UNIVERSITY CHAPEL (0022)

The University of Georgia Chapel was originally constructed in 1832. In 1989, the HVAC systems were renovated to include a total of four fan coil units (FCUs) with two FCUs supplying conditioned air to the main floor and two FCUs located in the attic distributing air from the ceiling to serve the balcony level. All four fan coil units serving the Chapel supply a combination of recirculated building air and ventilation air from outside the building.

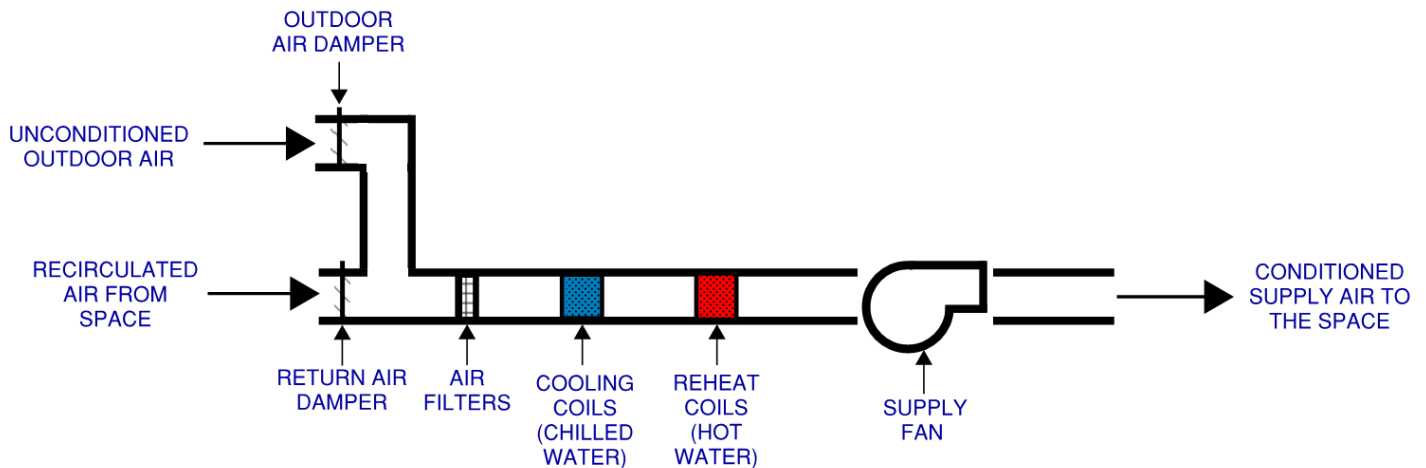
Unit	Area Served	Outdoor Air Fraction
FCU-1	Balcony	23%
FCU-2	Balcony	19%
FCU-3	Main Floor	19%
FCU-4	Main Floor	19%

Restrooms are heated using electric wall heaters and exhausted by a total of three exhaust fans on the roof.

Chilled water is supplied throughout the building from a chiller located in the nearby Holmes-Hunter Academic Building. Heating hot water, distributed throughout the building for heating, is provided by a steam to water heat exchanger using steam from the campus central steam system.

FAN COIL UNITS

A fan coil unit is fairly simple: it's a fan with a coil or coils (like a car radiator) that can add heating and cooling to the air stream flowing through it. The FCUs have air filters to remove particulate matter from the air, a hot water coil and chilled water coil for heating and cooling the air, and a supply fan for forced air circulation through the unit and into the space. The Chapel's fan coil units have supply and return ductwork along with ventilation air provided directly to each unit through outdoor air ductwork.



FAN COIL UNIT SCHEMATIC