

MEMORIAL HALL (0670)

War Memorial Hall was completed in 1925 and dedicated to the UGA students that died in World War I. Over the years, the building has seen both expansion and renovation.

The ballroom and lecture hall located in the center of the building is served by a single zone, constant volume air handling unit with chilled and hot water coils. In addition the offices on the second and third floor of the west side of the building are also served by single zone units. The fifth floor rotunda is served by a single zone fan coil unit. The offices on the first through the fourth floor on the east side of the building are served by variable volume air handling units (AHUs) with terminal units equipped with heating hot water coils. Ventilation air is introduced into the return air stream at each unit. The latest renovations utilized MERV 11 air filters within the AHUs.

Chilled water is supplied throughout the building from the campus chilled water system. Heating hot water, distributed throughout the building for heating, is provided by a steam to water heat exchanger using steam from the campus steam system.

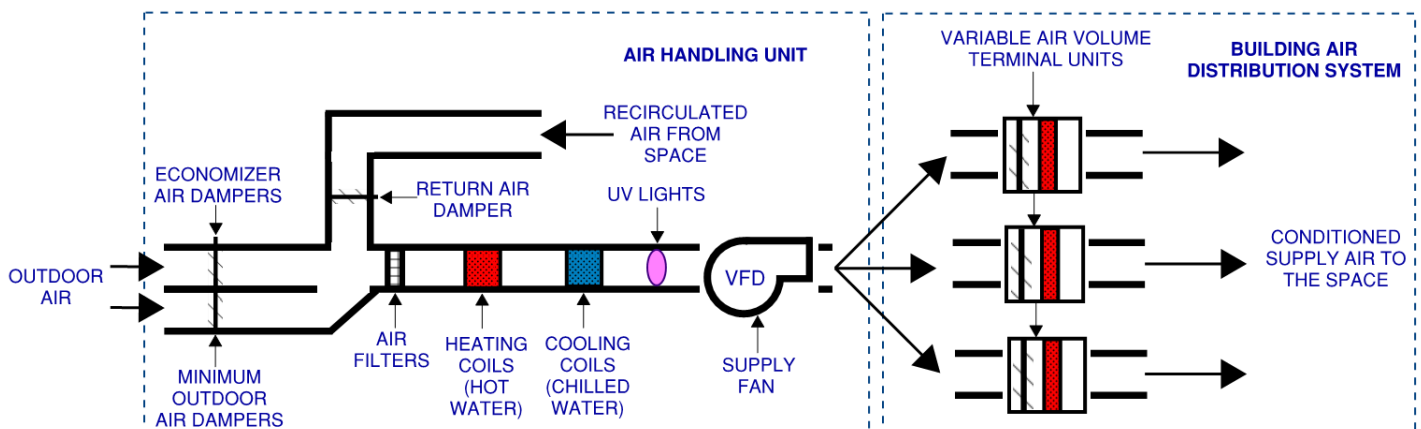
Some AHUs are equipped with UV lights that help to inhibit biological activity with the units. These units are equipped with an air side economizer function that increase ventilation to provide free cooling when ambient weather conditions are appropriate. These units are equipped with an occupancy schedule that disables the AHU during periods when the facility is unoccupied. The occupancy schedules have been adjusted to operate the unit and ventilate the building continuously as part of FMD's COVID-19 response plan. Some AHUs are also equipped with demand controlled ventilation programming that reduces ventilation to high occupancy spaces based on sensed occupancy as an energy savings measure. The demand controlled ventilation strategies have been disabled during the pandemic as part of FMD's COVID-19 response plan.

VARIABLE VOLUME AIR HANDLING UNITS

Variable volume air handling units (AHUs) deliver a variable volume of conditioned air consisting of a mixture of recirculated building air and fresh air from outside. The building return air is filtered, mixed with outdoor air and cooled with chilled water coils in the air handling unit before being supplied to rooms throughout the building via above ceiling ductwork.

Space heating is provided by Variable Air Volume terminal units (VAVs) with hot water reheat coils located in supply ductwork throughout the building. The VAVs are equipped with an air damper to regulate the volume of air delivered from the central AHU to the space based on the current space temperatures and a hot water reheat coil to provide space heating when needed. The VAVs include a fan and a filter combination that will mix air from above the ceiling with the conditioned air from the central AHU when the space requires heating.

Air is recirculated from the spaces back to the air handling units through ceiling mounted air return registers located in each space. Return air is pulled from a plenum space above the ceiling. Exhaust is provided in restrooms on each floor to remove odors and to maintain a slightly positive building pressurization.

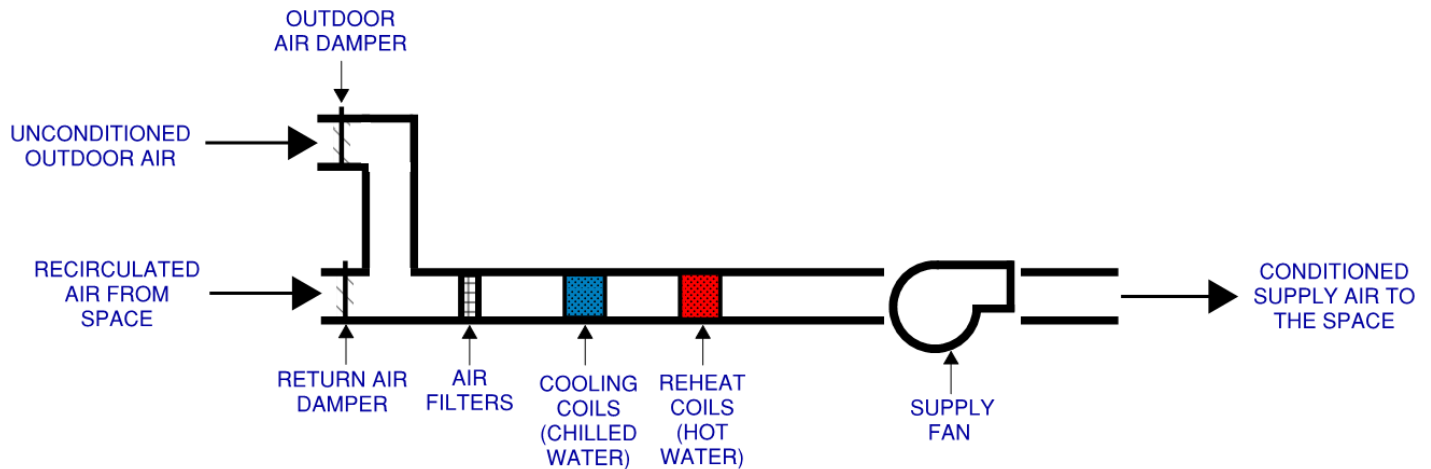


VARIABLE VOLUME AIR HANDLING UNIT SCHEMATIC

SINGLE ZONE AIR HANDLING UNITS

Single zone air handling units (AHUs) deliver a constant volume of conditioned air consisting of a mixture of recirculated building air and fresh air from outside. The building return air is filtered, mixed with outdoor air and cooled with chilled water coils and/or heated with hot water coils in the air handling unit before being supplied to the space(s) served via above ceiling ductwork.

Air is recirculated back to the air handling units through ceiling mounted air return registers located in the space(s) served. Return air is pulled from a plenum space above the ceiling. Exhaust is provided in restrooms on each floor to remove odors and to maintain a slightly positive building pressurization.



SINGLE ZONE AIR HANDLING UNIT SCHEMATIC