

Daikin® AC VRV System Project Profile

Hampton University Requirements:

- “...an HVAC system that can allow an energy efficient HVAC system to be incorporated into a historic building renovation and *is quiet and comfortable for University administrators and their executive staff in their offices* and can be maintained by the University maintenance department. The HVAC system cannot be highly visible or disrupt the architectural integrity of this building dating back to 1862”



Hampton University Academy Building

- Uses a Daikin **VRV®** Heat Recovery system for heating and cooling Administrative Offices in a historic building.
- Provides 16-Tons of total cooling served by two 8-Ton Outdoor Units (ODU) serving 7 large Executive Offices and Meeting Rooms using multiple 2 & 3-Ton Indoor Units.
- Outdoor Unit (ODU) utilizes VSD operation to maximize energy and adjust for changing building (occupancy) loads and seasonal temperatures



System Overview:

- Extremely compact and quiet, Ducted FXSQ Indoor Units (IDU) were used within a Heat Recovery system.
- Contractor used Factory supplied REFNET refrigerant branch piping connections to allow for the rapid installation of piping.
- Each room has an easy to operate remote wall mounted Controller for each Indoor Unit (IDU).



Discrete Indoor Units within compact closet and eave areas provide heating and cooling through wall and ceiling mounted diffusers to refurbished spaces.



OLD versus NEW Architecture on Campus
Hampton University Academy Building (circa 1862) versus
Douglas Wilder Building (circa 2002) on Left.