



St. John Neumann Church

Reston, Virginia

St. John Neumann Catholic Church helps bring together members from across its Reston parish. Apart from the main congressional area, the building also has six offices and eight classrooms for adults and children within its Parish Center as well as a separate Rectory.



The Challenge

St. Neumann knew they wanted a new cost effective system for the Church Parish Center and Rectory. Comfort was also a concern for management due to that fact that their HVAC was centralized, only allowing for one temperature across all the offices in the Center. Finally, St. Neumann wanted to significantly reducing their overall carbon footprint.

The Solution

After reviewing several RFPs, St. Neumann decided to award ColonialWebb with the job. The management already had a trusting relationship in place with the contractor, built from a service contract they shared.

The service company began by removing the church's existing air-cooled chiller, one boiler, and the fan coil units. They then replaced the old system with two Sanyo variable refrigerant flow systems consisting of two, 24-ton heat pump units and seven ducted units and ductless ceiling cassettes. The new system was designed to drastically decrease their gas usage.

To increase comfort, all the new units included separate programmable thermostats for each office to allow employees the option of setting their own spacial temperature.

The team also installed a central touch screen control to manage all the new systems, ensuring they run efficiently at all times.

The Results

As a result of the work, St. Neumann's has significantly cut down on their utility bills by eliminating most of their gas usage with the exception of a single boiler, increased the comfort of its members with new temperature controlled areas, and reduce their carbon footprint with a reduction in eco-waste. The building has also been ENERGY STAR benchmarked so that the management team can monitor their energy savings and investigate future green projects.

