

FUJITSU

CASE STUDY

AIRSTAGE™

Carolina Village
Retirement Community

Hendersonville, NC

Project Name

Carolina Village
Main Street
Retirement Community

Location

Hendersonville, NC

Completion Date

April 2014

The Team**Owner**

Carolina Village

Mechanical Contractor

R&W, Inc.

HVAC Distributor

Virginia Air
Distributors Inc.

Interesting Mix of Halcyon & Airstage

Carolina Village is a non-profit retirement community with continuing care located in the beautiful Blue Ridge Mountains in Western North Carolina. The community is constantly working toward a long range master plan for its facilities. This project is part of a new “Main Street” concept, which will provide an active, social environment for the residents by applying the design principles of a small town center. The project includes the renovation of an existing building of approximately 21,000 SF, along with the addition of approximately 3,000 SF. The new “Main Street” includes a movie theater, education center, indoor pool, pharmacy, and a bistro-style sports bar.

The project used 6 tons of Airstage heat pump equipment and was paired with over 25 tons of Halcyon equipment – with more

being planned in future stages. The primary indoor unit used was the Compact Cassette.

Design Challenge

There were many limitations with running ductwork through the existing area of the building – including low ceilings and trusses. In addition, parts of the building were to remain occupied during construction with minimal disturbance to the occupants. The owner was interested in a high-efficiency system to help them reduce long-term operational costs.

Why Fujitsu Was Chosen

A large number of Fujitsu Halcyon units were installed throughout the building with Fujitsu Airstage used in large rooms with high heating/cooling loads. The design team selected Fujitsu equipment with ceiling cassette indoor units to avoid the need for ductwork. In addition, the high energy-efficiency of Fujitsu equipment was attractive to the owner.

The Results

The Fujitsu system was installed with relative ease by R&W, Inc. Due to the lack of ductwork, the primary mechanical work involved the installation of refrigerant piping. The Compact Cassette fit



seamlessly into areas with suspended ceiling grids. In rooms with 12-foot ceilings, the powerful fan of the Airstage Compact Cassettes are able to provide a consistent temperature throughout the entire space. Additionally, the compact size of the Airstage and Halcyon outdoor units made it possible to hide the equipment when viewed from street level.

Customer Testimonial

Stuart Smith of R&W, Inc. chose to use Fujitsu because of competitive pricing, ease of installation, and Fujitsu's outstanding reputation for service & support. Smith said that he had installed other VRF and mini-split products and found Fujitsu to be much easier to install and troubleshoot.

Halcyon Equipment List:

(1) AOU48RLXFZ1 Heat pump Outdoor Unit
(1) AOU36RLXFZ Heat pump Outdoor Unit
(2) AOU24RLX Heat pump Outdoor Unit
(2) AUU24RCLX Ceiling Cassette Indoor Unit
(5) AUU9RLF Compact Cassette Indoor Unit
(5) UTG-CCGF Compact Cassette Grille
(1) ARU18RLF Slim Duct Indoor Unit
(1) ARU12RLF Slim Duct Indoor Unit
(1) ARU9RLF Slim Duct Indoor Unit
(1) UTP-PU03A Primary Branch Box
(1) UTP-PU03B Secondary Branch Box
(1) UTP-SX248A Separation Tubes

Airstage V-II Equipment List:

(1) AOUA72RLBV V-II Heat pump Outdoor Unit
(2) AUUB36RLAV Ceiling Cassette Indoor Unit
(1) UTY-RNKU Wired Remote Controller
(2) UTG-LCGV Wireless Remote Controller
(1) UTR-BP090X Separation Tubes



- ISO9001
- ISO14001

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