

OFFICE BUILDING LG Air Conditioning Systems

LG Technology The Comfort Experience for Office Buildings



Multi V

The benefits of quiet, energy efficient, sustainable building innovations may enhance your property value. The right choice for the LEED[®] generation.



IMAGINE less or no duct work, low utility bills... LG Technology.

Multi V Benefits

- VRF TECHNOLOGY
- EASY TO MANAGE
- TENANT COMFORT

LG Multi V, an architect's best friend for upgrading building aesthetics, keep, reduce, or eliminate the need for a cooling tower all together...Multi V offers the most flexible design choice.

Although the LG Multi V system works as one system, each unit can be isolated for unparalleled redundancy. Should any unit require maintenance or service, each unit compressor, heat exchanger or electrical service can be isolated while the system and other units continue to operate.

MultiV modular design offers a higher level of redundancy to your facility.



OFFICE BUILDING

LG Multi V

Delivering upgrading building aesthetics with operational cost savings



Indoor units come in a variety of design styles, including wall, floor and ceiling surface mount, ceiling flush and recessed concealed mount to blend in with its surrounding design, seamlessly.

Additional Benefits:

- Modular design offers unparalleled comfort control
- May enhance building resale value
- Tenant fit out flexibility and tenant retention improvement
- Simplifies routine maintenance and cuts annual maintenance expenditures

Multi V The Best Solution for Office Buildings

ENERGY EFFICIENT

Operational Cost

This innovative VRF system technology delivers exceptional comfort while delivering value, to buildings with lower energy consumption.

MULTI V III

System Efficiency

An energy efficient system from LG Multi V III allows you to use only what you need, when you need it.

BUILDING MODELING SOFTWARE

EnergyPro[™] V.5 building energy simulation software provided by EnergySoft[®], using the following accreditations:

- Uses DOE-2.1E simulation engine from U.S. Department of Energy
- Approved by the California Energy Commission
- Accepted by USGBC for use with LEED[®] certification
- Incorporates ASHRAE based load calculations

DESIGN PARAMETERS

The utility rates used for the energy analysis were assigned based on regional data acquired from the U.S. DOE

The building energy analysis was performed using ASHRAE design temperatures for Atlanta, GA

The city design conditions were used to model the performance of six different types of HVAC systems:

• LG Multi V III, Water Source Heat Pumps (WSHP), Duct Free Split (DFS) Systems, Constant Volume Rooftop Package Units and 4-pipe chilled water/hot water (CW/HW) central plants: one using air cooled chillers, one using water cooled chillers.

BUILDING DESCRIPTION

- Total Area (Sq. Ft): 133,600
- Total levels: 6
- Basement level walk-out
- Zones: 145
- Infiltration (CFM): O



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LIFE'S GOOD...WHEN IT'S GREEN.

Potential energy savings may vary depending on your personal system settings, equipment maintenance, local climate, actual construction and installation of equipment, and duct system





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