LG Technology for Medical Office Buildings and Hospitals

MODULAR DESIGN
SUSTAINABLE TECHNOLOGY
REDUNDANCY
HEALTHIER SYSTEM
LG Electronics, a leading provider to the healthcare industry, brings state-of-the-art modular design to improve comfort in problem areas within medical facilities.

IMAGINE less or no duct work, lower utility bills, a healthier, ozone friendly environment... LG Technology.

Multi V Benefits

- MODULAR DESIGN
- SUSTAINABLE TECHNOLOGY
- REDUNDANCY
- HEALTHIER SYSTEM

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.

Modular design adds a higher level of redundancy to your building.

Healthcare

LG Multi V – Engineered to be environmentally sustainable

The benefits of quiet, energy efficient building innovations will enhance your property value.

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 adds a high level of redundancy to your facility
- Independent zone control for improved comfort in problem areas
- Turn mechanical rooms into usable space
- Works with existing systems and delivers low ownership cost

Multi V

The Best Solution for Healthcare
This innovative VRF system technology delivers exceptional comfort while delivering value to the healthcare facilities with the lowest energy consumption per operating hour.

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

**Multi V**  
System Efficiency

- **Building Description**
  - Total Area (Sq. Ft): 133,600
  - Total levels: 6
  - Basement level walk-out
  - Zones: 145
  - Infiltration (CFM): 0

**Multi-story Building Energy Analysis**

<table>
<thead>
<tr>
<th>HVAC Systems</th>
<th>Annual Operating Cost ($0.0902/kWh, $1.358/Therm)</th>
<th>Building modeled in Atlanta, GA</th>
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<tbody>
<tr>
<td>LG Multi V</td>
<td>$20,000K</td>
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<td>WSHP</td>
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**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 Sync II, 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.