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## About Benefits



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### LG VRF Benefits

Your project can realize significant benefits by using LG's VRF Technology. Efficiency and modern modular design are just the beginning.

The modular design of VRF results in superior energy savings giving occupants the choice to air condition or heat only the zones in use. A VRF system provides exceptional dehumidification and temperature control by rapidly adapting to changing loads.

#### Efficient Design



Without using large distribution ducts, the Multi V system removes losses that are unavoidable in other systems. In addition, the use of optimized scroll or rotary compressors, specially designed heat exchangers, and inverter technology, the Multi V system minimizes energy consumption to levels previously unattainable by non-VRF systems. The modular design offers comfort on demand allowing the choice to use the system only in the zones where it is needed further promoting reduced energy consumption.

#### Energy Modeling



LG stands behind efficiency and performance with proof. You will find Multi V in the EnergyPro™ building energy simulation software from EnergySoft®. EnergyPro™ is approved by the California Energy Commission and can be used for documentation with the California Title 24 Standards as well as energy codes throughout the United States including ASHRAE 90.1 and LEED®. The software accurately models energy consumption based on building design, orientation, location, and other design conditions taking into account your specific utility rate structure.

#### Zoned Comfort Control & Dehumidification



With the use of inverters and dual compressor outdoor units, the LG Multi V system offers superior load matching, preventing constant cycling or large temperature swings. Tight temperature control through precise load matching ensures maximum comfort, efficient operation, and superior dehumidification. The modular design of VRF results in superior energy savings giving occupants the choice to air condition or heat only the zones in use. The LG Multi V offers individual zoning to insure owner or tenant comfort.

#### Sustainability



The architectural and engineering community is adopting a balanced design approach that considers energy and water consumption, repetitive maintenance costs, the impact of development on the environment, and the building's initial cost as equally important factors in developing high performance, sustainable buildings that will increase building value. LG's Multi V VRF systems help achieve points for sustainability programs.

The USGBC has developed holistic design standards for constructing new and retrofitting existing buildings known as LEED® - Leadership in Energy and Environmental Design. The Multi V variable refrigerant flow air conditioning systems are engineered for sustainable green buildings and provide opportunities for designers to claim numerous LEED® prerequisites and points.



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### Stylish Design

Multi V indoor units are available in a wide range of styles to fit any interior design. With indoor unit choices including cassettes that mount flush to the ceiling, ducted units that hide completely concealed in the ceiling, and mirror finished wall mounted units that fit into any décor, the LG Multi V system offers unparalleled aesthetic design.



### Quiet

Work without distraction. Sleep without noise. With indoor units that can operate at sound levels as low as 23dB(A) and outdoor units that operate as low as 50dB(A) and lower with night quiet operation, Multi V creates a comfortable environment so quiet it's almost undetectable. For additional sound level control, a night quiet mode can be set to limit fan speed during off peak hours.

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