



LG

Life's Good

The future of air conditioning

MULTI V™ IV

- Enhanced Efficiency
- AHRI 1230 Certified®
- Low Ambient Heating
- Improved Part Load

About LG VRF Technology

Variable Refrigerant Flow is a technology introduced as a system to minimize efficiency losses and provide sustainable energy benefits. LG VRF systems are engineered to save on the cost of ducts, distribution fans, water pumps and water piping. VRF systems have a low life cycle cost compared to other technology on the market today.

Why LG VRF?

The benefits are numerous: less piping for installers, energy efficiency for owners, and sleek modern indoor unit styling. LG has industry-leading low sound levels, so units are quiet and can be installed where sound is an issue. LG-manufactured inverter scroll compressors optimize system energy efficiency.



Benefits

• LG Inverter Scroll

A new high side shell innovation offers a more compact size for the same capacity output with greater reliability in cold climates.

• Low Ambient Operation

Heating operating range down to -13°F.
Cooling and simultaneous operating range down to 14°F.

• Compact & Lighter

More indoor zones, less outdoor space. When space or access is at a premium, Multi V IV equates to significant cost advantages for the owner on large projects.

• Higher Elevation Piping Distances

More floors with fewer systems. Multi V IV eliminates the need to invest in extra systems and saves on installation.

• Enhanced Energy Efficiency

New compressor design and optimized heat exchanger contribute to enhanced efficiency. Multi V IV is AHRI 1230 certified to ensure you get verified efficiency.

• Continuous Heating Defrost

Ability to provide heating during a defrost cycle.

• LG Smart Oil Control

Smart Oil Control eliminates timed oil return cycles and takes hours off of operating time to return oil versus systems that use a timed oil recovery cycle.

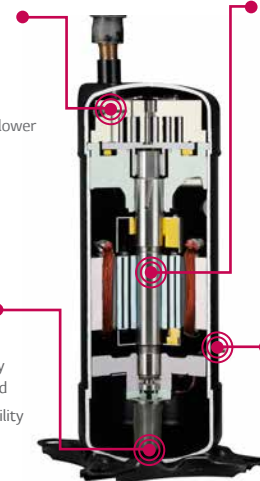
4th Generation of LG Inverter Compressor

VAPOR INJECTION

- Max. heating capability by two-stage compression
- Energy efficiency improved
- Greater heating capacity at lower ambient temperatures

SMART OIL CONTROL OPERATION

- Oil sensor: Smart oil recovery operation only when required
- Enhanced compressor reliability and user comfort



COMPRESSOR SPEED 15HZ-150HZ

- Enhanced heating, rapid response capability
- Compact core design (concentrated motor)
- Down to 15 Hz Partial load efficiency

HIPOR (HIGH PRESSURE OIL RETURN)

- Direct oil return technology reduces losses caused by differential pressure type oil return

MULTI V™ IV

Multi V IV VRF Technology

This product line is LG's premier VRF system. Multi V IV is designed to provide the owner with the benefits of VRF – lower operational costs, minimal or no duct work to install, tenant comfort with individual zoning, and efficiency superior to other technologies while maintaining architectural integrity. The benefit of zoning for heating or cooling is that it provides a level of comfort for the owners and tenants. Units are from 6 tons to 30 tons.

MULTI V™ IV

Benefits of Heat Pump

LG VRF Multi V IV heat pump systems provide heating or cooling to individual zones. The benefits of VRF heat pump zoning are to provide a level of control for tenant comfort in their individual space. The owner saves on boiler size reduction.

MULTI V™ IV

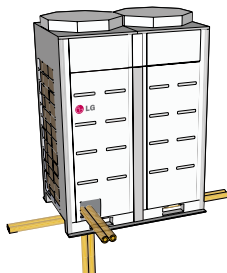
Benefits of Heat Recovery

LG Multi V IV heat recovery systems permit synchronous cooling and heating in different zones at the same time. The benefit of zoning for heating and cooling at the same time provides the ultimate in VRF technology, moving heat from one zone to another.



Building shown using LG Multi V IV.
Note: Heat recovery units are not depicted on this image. Refer to engineering product data book for layout.

Contractor-Friendly 4-Way Piping



Compact Design



ENERGY EFFICIENT

Operational Cost

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

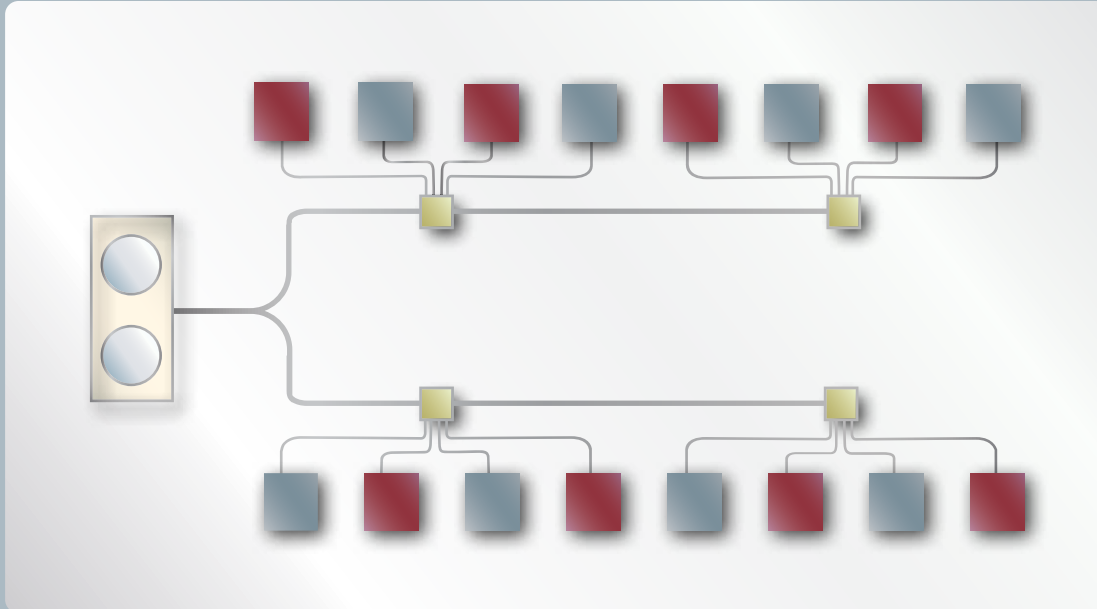
MULTI V IV

System Efficiency

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

LG HYBRID PIPING CONFIGURATION

- Configured for fully independent heating and cooling
- Series and/or parallel configuration
 - Ports are closer to the indoor units they serve which reduces piping costs
 - Smaller number of Y-Branch brazes reduces field install labor
- No heat recovery unit condensate drains saves material costs



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