

# MULTI V 5™

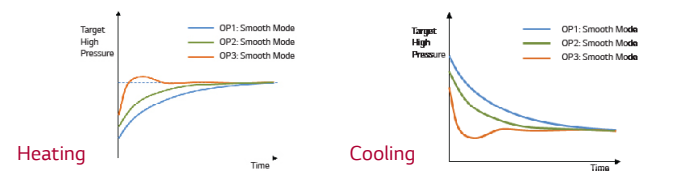
## FEATURES AND BENEFITS SUMMARY

### OUTDOOR UNIT TEMPERATURE AND HUMIDITY SENSORS

Multi V 5 system control technology is now predictive. By monitoring the current temperature and humidity, changes in current conditions modify machine operation before the change has had an opportunity to impact the condition of the occupied space.

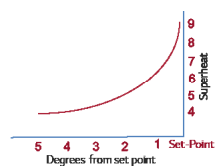
### SMART LOAD CONTROL

Smart Load Control is a field selectable option that substantially enhances VRF system energy savings during off-peak cooling and heating operation by adjusting target temperatures reducing the amount of work the compressor performs.



### COMFORT COOLING

Comfort Cooling is a field selectable option that increases comfort during cooling operation by progressively increasing the leaving air temperature as the space temperature nears the room set-point.

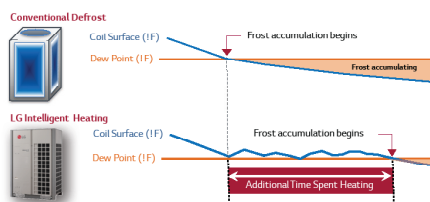


### INTELLIGENT DEFOST

Intelligent defrost allows field customization of a VRF system's defrost operation to optimize it for local weather characteristics.

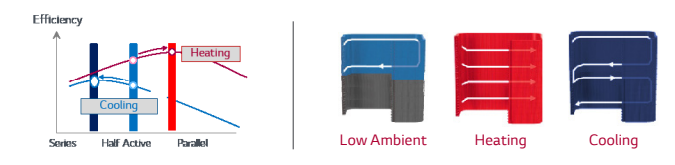
### SMART HEATING

Smart Heating is an energy saving addition for Multi V 5 that extends the VRF system's heating run-hours between defrost cycles by delaying frost formation on the outdoor unit coil by staying above dew-point when possible.



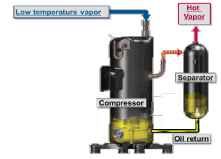
### VARIABLE PATH HEAT EXCHANGER

Variable path heat exchanger dynamically modifies the refrigerant path through the ODU coil as mode or weather conditions change enabling low ambient cooling capability and optimizing system operation at all weather conditions.



### HIPOR™ COMPRESSOR TECHNOLOGY

HiPOR™ is acronym for Hi Pressure Oil Return that refers to LG's unique strategy which returns oil to the compressor sump without passing through the suction port providing increased compression cycle efficiency.



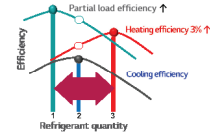
### SENSOR BASED OIL MANAGEMENT

When a VRF system is heating and an oil return cycle is necessary, heating is halted during oil return and compressor energy is consumed to return oil. Sensor based oil management requests an oil return only when necessary saving money and increasing winter comfort.



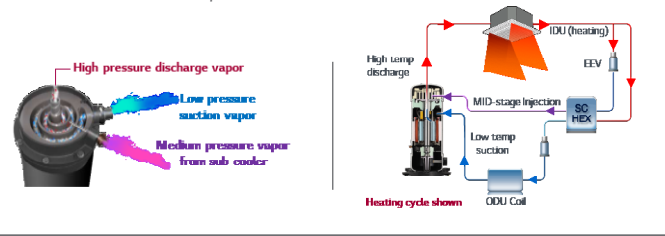
### ACTIVE REFRIGERANT CONTROL

Active refrigerant control optimizes system operating efficiency by dynamically optimizing refrigerant charge at any outdoor ambient temperature. If the VRF system is located where extreme weather changes occur, active refrigerant control eliminates seasonal service calls to adjust the charge.



### SUBCOOLING & VAPOR INJECTION

LG VRF systems provide high performance heating and cooling with long distances between the source unit and indoor units. Subcooling technology ensures the refrigerant delivered to the cooling units will be in a liquid state. Vapor injection enhances heating and cooling performance and efficiency at extreme outdoor air temperatures.



### LIQUID-COOLED INVERTER DRIVE

Using refrigerant liquid to cool the inverter driver electronics removes the dependence on air movement through the cabinet which enhances reliability and extends the inverter's ability to operate at a more extreme ambient air temperature.

