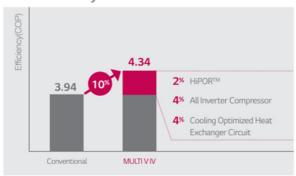
World's First Class, Rated and Part Load Efficiency

Rated Efficiency



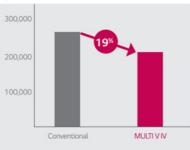
* Comparison between 10HP

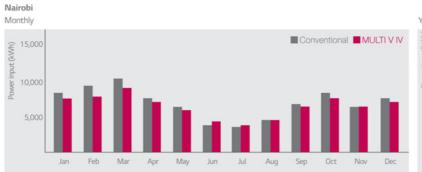
Integrated Part Load Efficiency

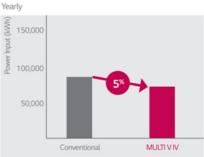


* Comparison between 10HP, part load efficiency based on internal test data









* Analysis Condition

- Weather : Meteonorm Program(www.meteotest.ch)

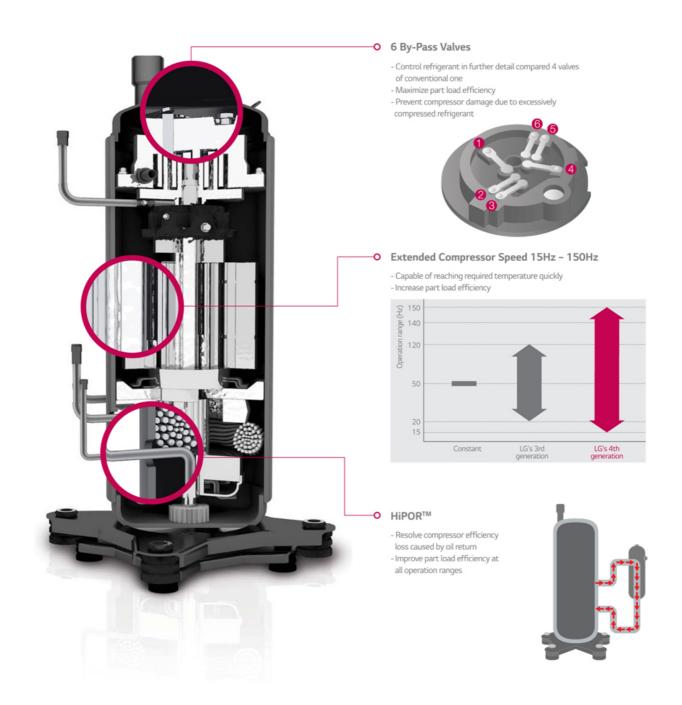
- Capacity : 90HP(10HP +12HP + 14HP + 16HP + 18HP + 20HP)

- Operation : 24hr, 365days

Energy Consumption Comparison

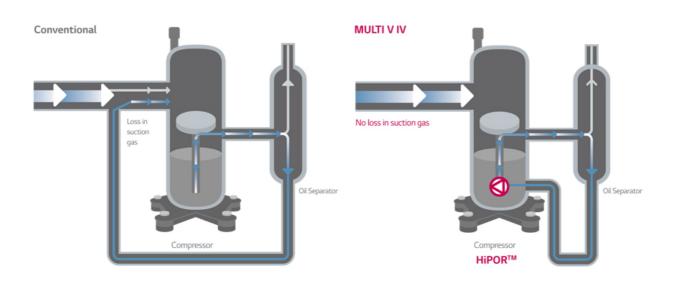
Compressor

The new high-side shell (HSS) scroll inverter compressor employs a BLDCtype motor coil to maximize efficiency in part load conditions. This exceptional efficient inverter compressor also boasts an increase in highfrequency operation from 120Hz to 150Hz.



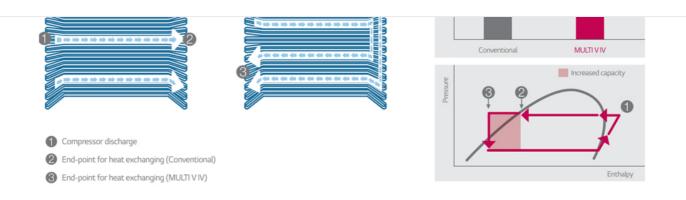
Return)

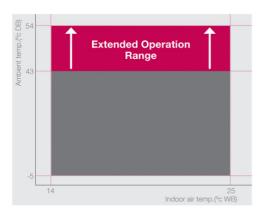
Conventional models can't fully return refrigerant to compressor when returning oil. However, LG's HiPOR™ reduces compressor energy wastage by returning oil directly into the compressor, not from refrigerant pipe. Through this, it provides superior efficiency and a high level of reliability.



Cooling Optimized Heat Exchanger Circuit

By extending the path length of the heat exchanger and decreasing the number of paths, the refrigerant is able to throw off more heat. Through a rise in the heat exchange rate, the heat exchanger contributes to increase cooling efficiency.





Cooling Operation Range Up to 54**°C**

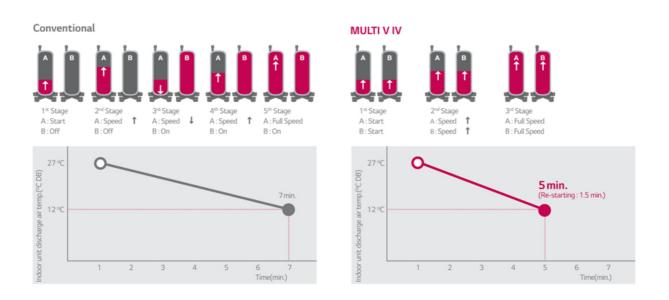
Thanks in large part to LG's advanced inverter compressor and unique heat exchanger design, MULTI V IV is able to provide reliable operation even when the outside temperature soars to 54°C, exceeding the previous norm limit by 11 degrees.

* Stable cooling operation can be expected up to 43°C.

Fast Cooling via Advanced Inverter

Thanks to LG's all inverter compressor system and high performance cycle design, MULTI V IV delivers fast cooling by operating two compressors

reach maximum capacity.



Fan with Less Noise and Higher Air Volume

The design of cannon fan creates more separation between blades and allows for a reduction in the system's vortex. This increases the total air volume up to 50cmm (m3 per minute), and it also decreases the level of noise by 4dB(A).

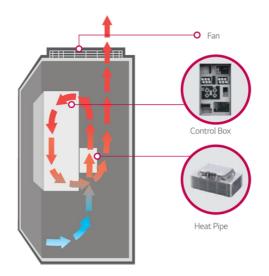


Self-Cooled Printed Circuit Board (PCB) Protection

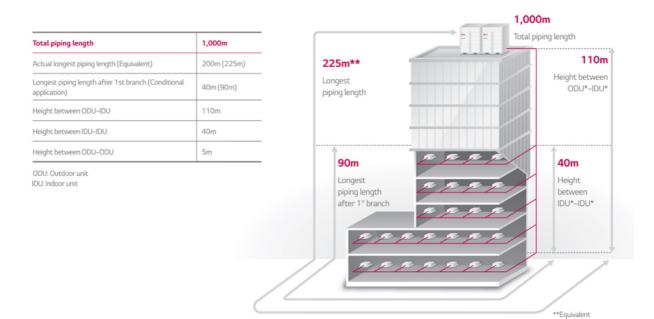
The temperature of PCB should be maintained at proper levels regardless of the rise in outdoor temperature. Selfcooled PCB Protection is a unique system which employs separate pipes to cool the PCB. MULTI V IV is able to minimize the loss of cooling capacity and refrigerant.

- PCB is cooled by air through heat pipe behind control box

- Maintain cooling performance regardless of outdoor temperature

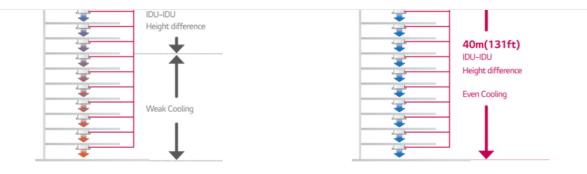


MULTI V IV inverter technology and subcooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a high-rise building or complex facilities, reducing the designer's work time and providing more efficient design.

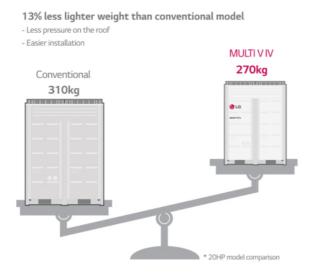


High Elevation Technology between Indoor and Indoor

MULTI V IV provides a maximum 40m of height difference between the indoor units without any loss in cooling capacity thanks to the new cycle and compressor technology.



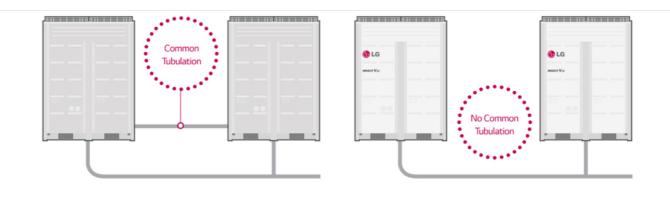
Light Weight Outdoor Units





Elimination of Common Pipes between Outdoor Units

Due to the elimination of common pipes between outdoor units, installation time is reduced and reliability is enhanced.





Upgraded Fault Detection & Diagnosis (FDD)

The inclusion of FDD elements - auto start-up, auto refrigerant check, black box functionality, simultaneous evaluation, and auto refrigerant collection, provides the optimal solution for user reliability and ease of maintenance.

- Auto Commissioning Mode
- Auto Refrigerant Collection
- Auto evaluation of refrigerant amount and charging
- Able to access LGMV (LG Monitoring View) by smartphone
- Piping & wiring error check-up
- Black box function

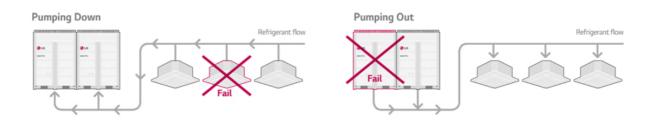
AULO CUITITISSIULIITY MUUE

Commissioning time has been reduced up to 25%, from 60 minutes to 45 minutes. Remote control, wireless reporting has been provided.



Auto Refrigerant Collection

If an indoor unit experiences a problem, any remaining refrigerant is pumped down and transferred to normally functioning outdoor units. Conversely, if an outdoor unit malfunctions, any refrigerant left is pumped out to fully operational indoor units. This collection function helps to prevent the loss of refrigerant,while also making maintenance easier.



Smartphone Monitoring & Control



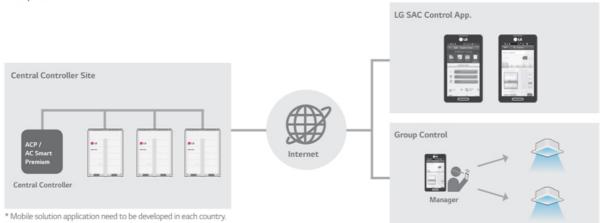
- To use Mobile LGMV application, exclusive Bluetooth module is required.

- Bluetooth module can be installed on the main board of the outdoor unit for use.

Smartphone specification			Effective communication distance of Bluetooth
Basic specification	Recommended specification	Exception	
- Android OS 2.2 - CPU 1 GHz - RAM 1 GB	 Android OS 4.0(ICS) or higher CPU 1 GHz Dual Core or higher RAM 1GB or higher 1280 x 720, 800 x 480 resolution (Optimized) 	- Android OS 3.x (Honeycomb) - iPhone not supported	Effective distance : 10m (Open Space) Effective distance can be shortened based on the communication environment.

LG SAC Control App.

Central Controller (ACP / AC Smart Premium : Option) provides smartphone monitoring and control function for users. Group control is available via smartphone.



Capacity (Rated)	
Cooling (kW) 28.0	Cooling (kcal/h) 24,100
Cooling (Btu/h) 95,900	
Input (Rated)	
Cooling (kW) 6.45	
COP	
Cooling 4.34	
Power Factor	
Rated 0.90	
Casing Color	
Casing Color Warm Gray /Morning Gray	
Heat Exchanger	
Heat Exchanger Gold fin	
Compressor	
Type Hermetically Sealed Scroll	Piston Displacement (cm3/rev) 43.8
Number of Revolution (rev/min) 3,600	Motor Output x Number (W x No.) 4,200
Starting Method Direct On Line	Oil Type FVC68D(PVE)

Air Flow Rate(High) - m3/min	Air Flow Rate(High) - ft3/min 7,416
210	7,410
Drive	Discharge (Side / Top)
DC INVERTER	TOP
Pipe Connctions	
Liquid - mm(inch)	Gas - mm(inch)
9.52(3/8)	22.2(7/8)
Dimensions(WxHxD)	
mm	
(920×1,680×760)×1	
Net Weight	
kg	
180 × 1	
Sound Pressure Level	
Cooling - dB(A)	
58.5	
Sound Power Level	
dB(A)	
69.5	
Protection Devices	
High pressure protection	Compressor/Fan
High pressure sensor / High pressure switch	Over-heat protection / Fan driver overload protector
Inverter	
Over-heat protection / Over-current protection	
Communication Cable	
No.× mm2 (VCTF-SB)	
2C × 1.0 ~ 1.5	

Control

Electronic Expansion Valve

Power Supply

Ø, V, Hz 3, 380~415, 50 / 3, 380, 60

Number of outdoor units

Number of outdoor units

1

Number of maxmum connectable indoor units

Number of maxmum connectable indoor units 16(25)

Running Current

Cooling (A) 10.66 Product Support

Simply choose a support option from the icons below:

Phone

Call an LG Support Representative on Nigeria: 0800 9811 5454 (Toll Free) Angola: +244 933 772 011 Angola: +244 933 772 012 Benin : +229 21 37 74 09 Benin : +229 21 37 74 10 Cameroon: +237 671 385 050 Cote D'Ivoire : +225 2031 9454 DR Congo: +243 999555999 DR Congo : 99997774 Gabon: +241 0172 1790 Gambia : +220 4375900 Gambia: +220 7955815 Ghana: +233 302247770 Ghana: +233 302247771 Guinea Conakry : +224 664 199 999 Liberia: +231 880538538 Liberia: +231 770000391 Mali: +223 2029 0058 Mauritania : +222 45 24 24 24 RP Congo : +242 066 625 555 Senegal : +221 338 596 902 Togo: +228 22 37 02 04 Monday to Friday : Open Saturday - Sunday : Closed Bank Holidays : Closed

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Send an Email to LG Customer Service and Support to receive response from LG support

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MULTI V IV

MULTI V IV