

2009

**MULTI V™**

**AIR CONDITIONING SYSTEM**

Enjoy a clean & comfortable life with MULTI V.



www.lgeaircon.com

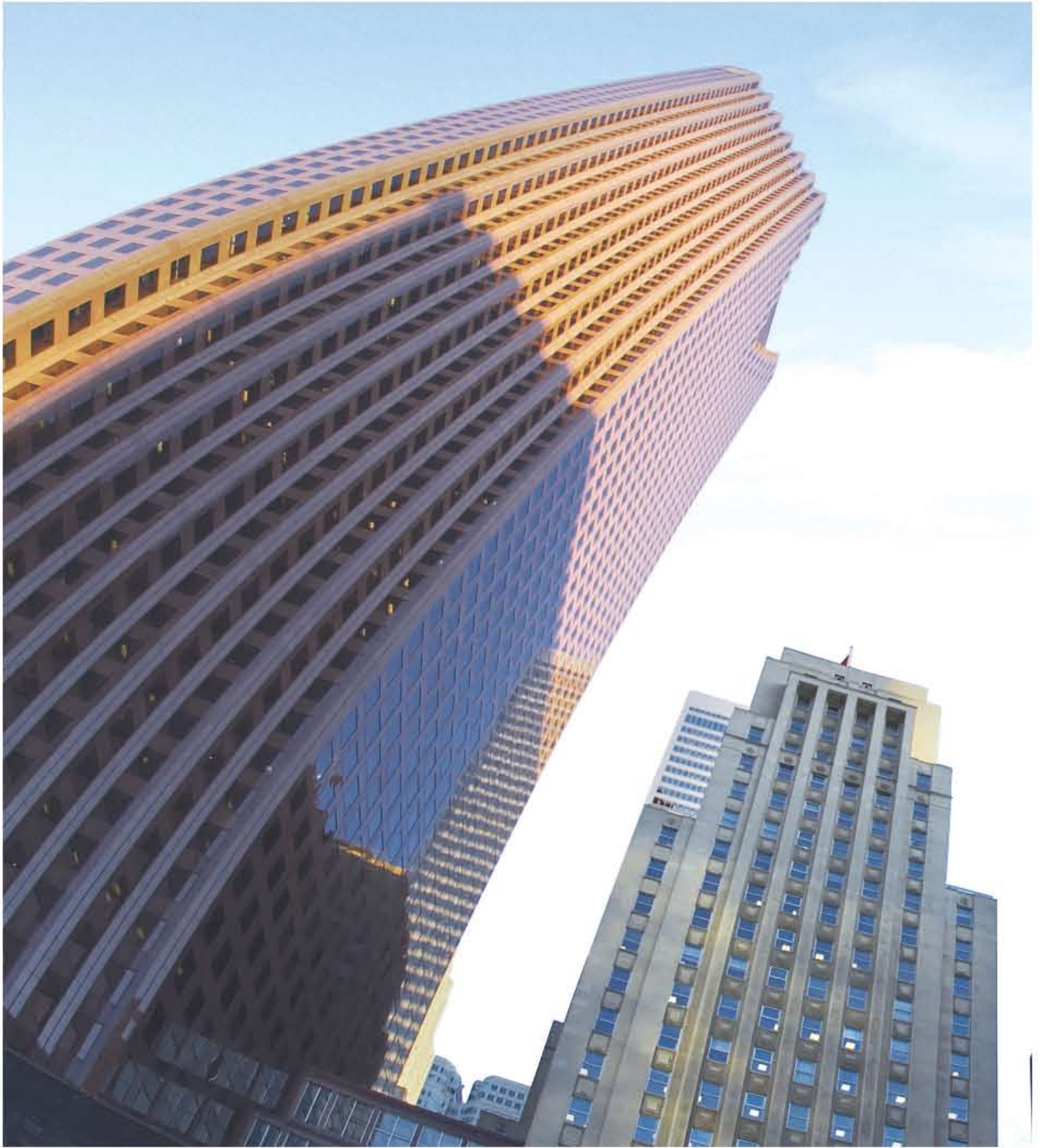


**LG**

Life's Good







## Global Air Conditioning Academies



Changwon in Korea



Pyeongtaek in Korea



Spain



Italy



Dubai



China



Saudi Arabia



# Life's Good!

From installation to maintenance and repair,  
LG runs 30 global air conditioning academies, providing  
training for air conditioning professionals around the world.

## Brief History

### Establishment

- 1947 Establishment of the LG Group
- 1958 Establishment of LG Electronics Inc.
- 1962 Establishment of Digital Appliance Company

### Growth

- 1968 Manufactured Korea's first air conditioners
- 1985 Introduced Korea's first Inverter air conditioners
- 1986 Exported Korea's first window type air conditioner

### Expansion

- 1995 Establishment of LGETA in China
- 1997 Establishment of LGEIL in India
- 1999 Establishment of LGEAT in Turkey
- 1999 Establishment of LGEVN in Vietnam
- 2001 Establishment of LGEAZ in Brazil
- 2002 Establishment of LGETH in Thailand
- 2002 Establishment of LGEIN in Indonesia
- 2004 Turnover of US\$1.4 Billion dollars
- 2008 Establishment of LGELF in Levant Countries
- 2008 Establishment of LGETK in Turkey



Thailand



England



France



Australia



Moscow



Singapore



Mexico



Panama



Indonesia



Iran



Turkey



Vietnam

# *Multi V Series*

Your life comes more quiet, economical and powerful  
with LG air conditioning high technology.





**Outdoor  
Unit  
10**

16	MULTI V MINI
20	MULTI V PLUS II
28	MULTI V SYNC II
34	MULTI V SPACE II



**Indoor  
Unit  
38**

49	Wall Mounted
50	ARTCOOL
52	Ceiling Cassette
56	Ceiling Concealed Duct
60	Ceiling & Floor
61	Ceiling Suspended
62	Floor Standing



**eco V  
(Heat Recovery  
Ventilator)**

**64**

66	Features
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68	Line-up
70	Specifications











**V-net  
&  
Accessory  
72**

74	Remote Controller
76	Central Controller
84	Accessory



# MULTI V™

## Outdoor unit line up

MODEL	HP	4	5	6	8	10	12	14	16	18	20	22	24	26	28
MULTI V™ MINI															
MULTI V™ PLUS II															
MULTI V™ SYNC II															
MULTI V™ SPACE II															

\*10, 220V \*30, 380V



30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64

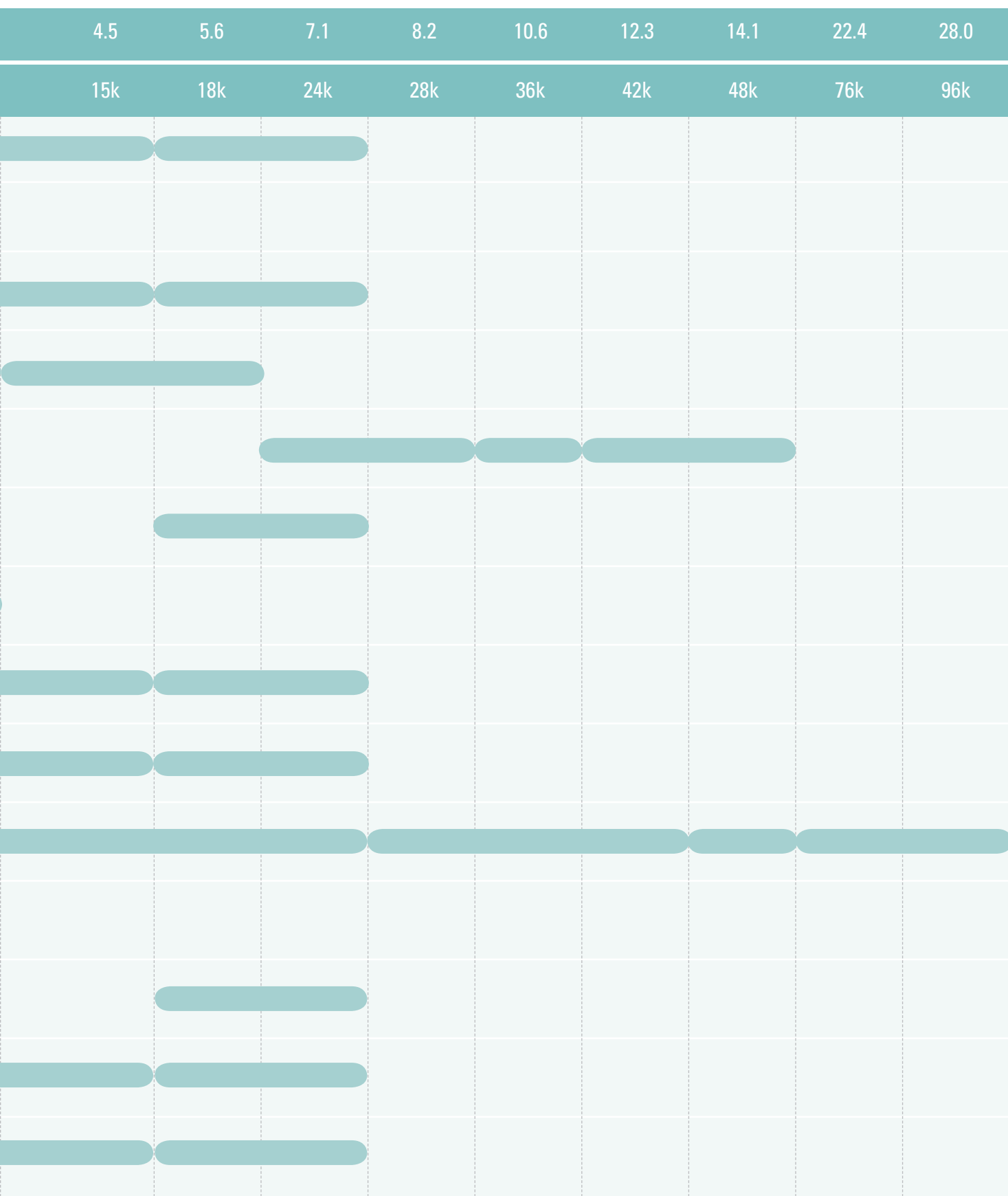




## Indoor unit line up

kW			1.5	2.2	2.8	3.6
Btu / h			5k	7k	9k	12k
SRAC	Wall Mounted					
ART COOL Series	Gallery					
	Mirror					
Ceiling Cassette	4way Cassette (570*570)					
	4way Cassette (840*840)					
	2way Cassette					
	1way Cassette					
Ceiling Concealed Duct	Low Static					
	Built-in					
	High Static					
Ceiling & Floor						
Ceiling Suspended						
Floor Standing	With Case					
	Without Case					





# **MULTI V™ series** Outdoor unit

MULTI V Inverter units composed of serially arranged refrigerant pipes connected to a single outdoor unit are an efficient system that offers outstanding energy saving, simple and easy installation, and connection to different types of indoor units, making it easy to design and install.



## **MULTI V outdoor**

- |    |                  |
|----|------------------|
| 16 | MULTI V MINI     |
| 20 | MULTI V PLUS II  |
| 28 | MULTI V SYNC II  |
| 34 | MULTI V SPACE II |



**MULTI V™**  
MINI



**MULTI V™**  
PLUS II



**MULTI V™**  
SYNC II



**MULTI V™**  
SPACE II

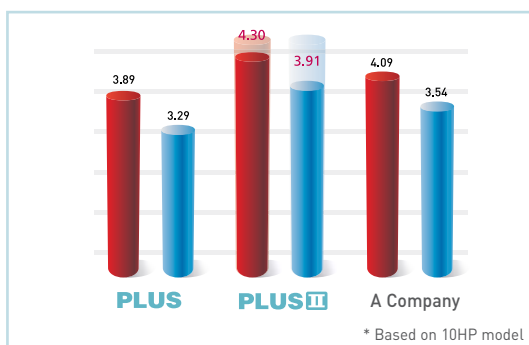




# MULTI V™ series

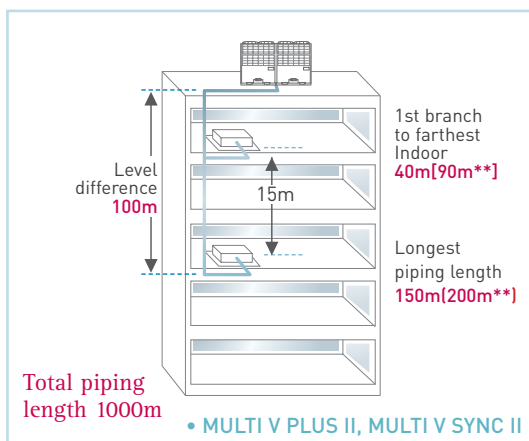
## Outdoor unit

Pursuing the market needs of high energy efficiency and environmental friendliness.



### World Highest COP!

- DC Inverter compressor
- Inverter combination
- High efficient DC Inverter fan
- Wide louver heat exchanger



### Extended Piping Length

#### • MULTI V PLUS II / SYNC II

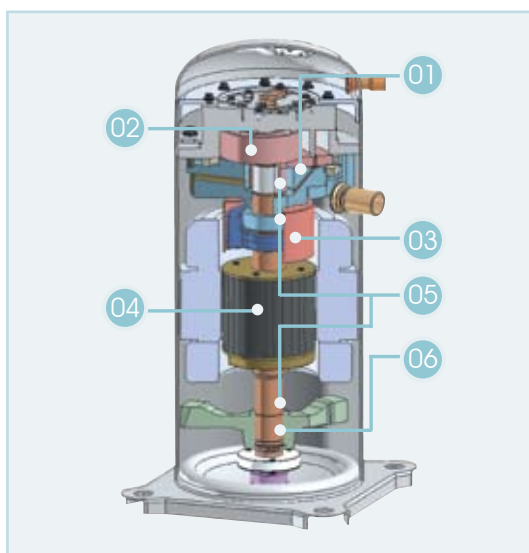
\* Using Y branch

Total piping length	1000m
Longest piping length	150m[200m**]
Longest piping length after 1st branch	40m[90m**]
Level difference between ODU~IDU	100m
Level difference between IDU~IDU	15m
Level difference between ODU~ODU	5m

- Refer to the specifications for more information

\*\* Conditional Application

To make 40~90m of pipe length after first branch, refer to the part of "installation of outdoor units" in PDB

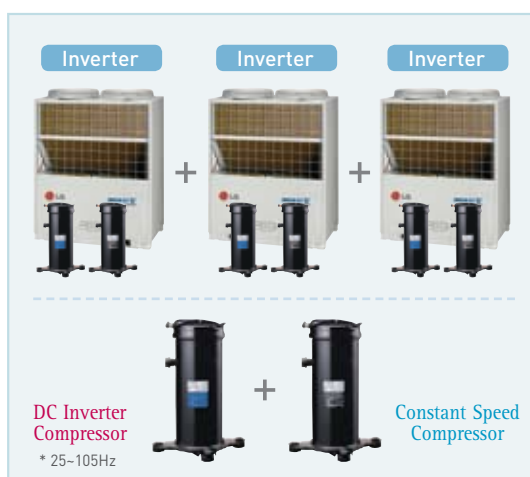


### DC Inverter Compressor

- 01 Optimized scroll shape
- 02 Oil injection mechanism
  - High reliability in low rpm operation
  - High efficiency in partial load operation
- 03 Oil discharge reduction
  - High reliability in high rpm operation
  - Enhanced oil circulation
- 04 DC Inverter motor
  - High efficiency
  - Low noise
- 05 Teflon coated bearing
- 06 High performance oil pump

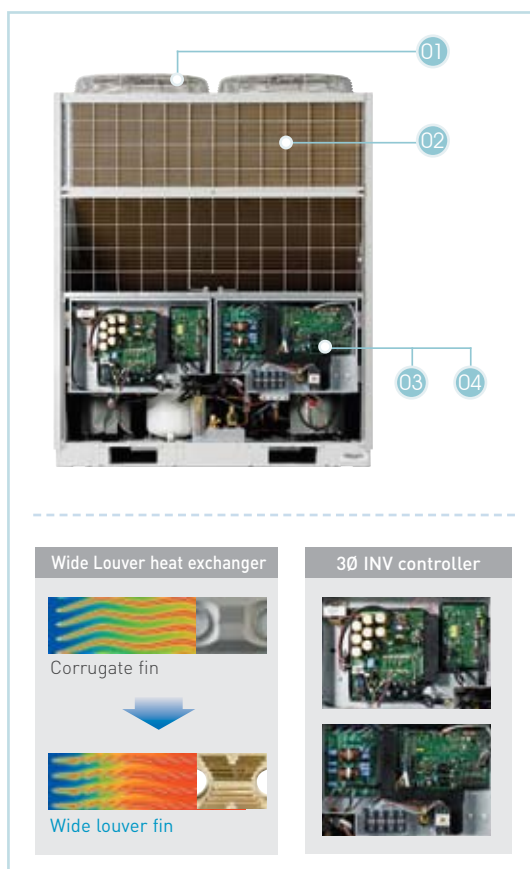
## 2009 New Features

MULTI V MINI / MULTI V PLUS II  
MULTI V SYNC II / MULTI V SPACE II



### Inverter Combination

- Increased performance & high COP
- Faster response for partial load
- Optimized combination with space saving
- Competitive price for customers
- Reduced total base model units
  - Simple line-up (16 models → 5 models)
  - Easy stock & logistics management



### Other Features

- 01 DC Inverter fan motor
  - Max RPM increased from 850 to 920 rpm
  - Power consumption decreased by 30~40%
- 02 Wide louver heat exchanger
  - Improved heat exchange rate by 14%
  - Anti-corrosion treatment (Gold fin)
- 03 Black box function
  - Save the last 3 minutes operating data
  - Precise analysis & fast trouble-shooting
- 04 Upgraded Main PCB

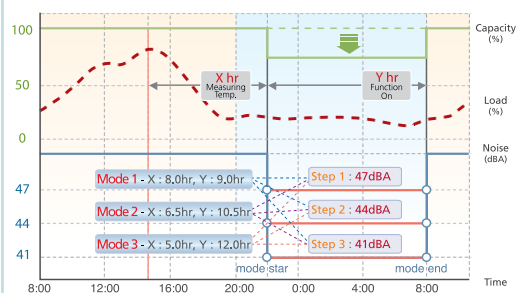


# MULTI V™ series

## Outdoor unit

Pursuing the market needs of high energy efficiency and environmental friendliness.

### Enhanced comfort for end-user!



\* Based on MULTI V PLUS II, 10HP model

## Night Silent Operation

Night silent operation will be on for X hours starting from the peak temperature during daytime, and then after Y hours, it'll be back to normal operation.

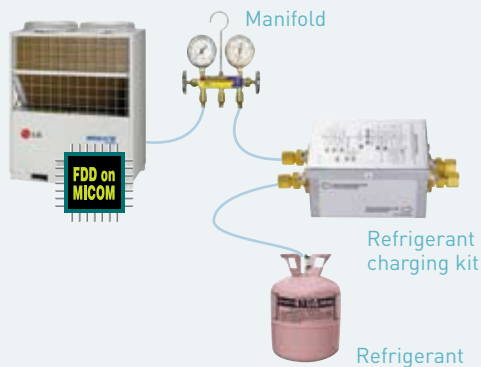
- Mode 1 → X : 8.0 hours, Y : 9.0 hours
- Mode 2 → X : 6.5 hours, Y : 10.5 hours
- Mode 3 → X : 5.0 hours, Y : 12.0 hours

Each mode can be selected as 3 steps of sound level.

Unit : dBA

	MINI	PLUS II	SYNC II
Step 1	46	47	47
Step 2	43	44	44
Step 3	40	41	41

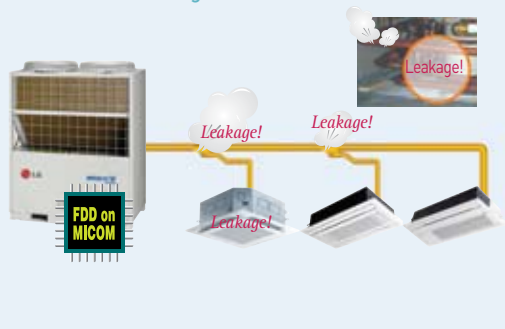
### \* Fault detect & diagnosis



## Automatic Refrigerant Charging

- Refrigerant charging without any scales or quantity calculation
- This function is recommended during service.
- Guaranteed temperature range : IDU(20~32°C), ODU(0~43°C)
- FDD function (Fault detect & diagnosis)

### \* Fault detect & diagnosis



## Automatic Refrigerant Check-Up

- It can be checked refrigerant status during start-up whether it is undercharged or overcharged
- It can be decided appropriate amount of refrigerant automatically through cycle operation.
- FDD function (Fault detect & diagnosis)



## 2009 New Features

MULTI V MINI / MULTI V PLUS II  
MULTI V SYNC II / MULTI V SPACE II



• Operation state • Central Controller • Cycle view

<p>• Model selection</p>	<p>• Auto check</p>
<p>• CAD application</p>	<p>• Making quotation</p>

### LG MV

- Easy start-up, easy trouble shooting
- Monitoring the normality of all parts such as compressor, fan, valve, etc

### LATS MULTI V

- Convenient model selection program
- Highly user-friendly design (Autocad version)
- Automatic piping design & check

Download from sales supporting system  
→ <http://www.lgeaircon.com>



MULTI V MINI can be easily installed in small offices and shops. Designed for low-noise operation, it ensures a pleasant air conditioned environment.

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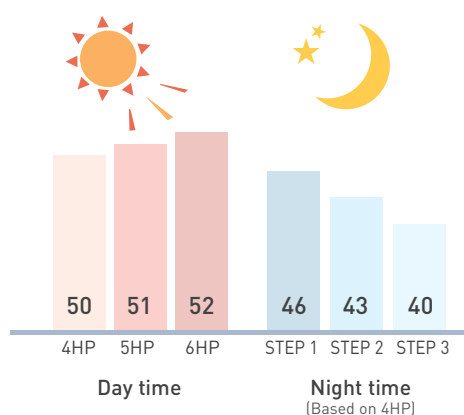
Enjoy a clean &  
comfortable life with MULTI V MINI.

## EFFICIENCY

MULTI V MINI uses the cutting-edge, artificial intelligence control to obtain efficient operation and reduced noise.



### • Noise level (dBA)



## Enhanced Comfort

- Night silent operation
- High COP

	1Ø, 220V		3Ø, 380V	
	Cooling	Heating	Cooling	Heating
4HP	3.9	4.0	3.7	3.9
5HP	3.7	4.0	3.6	3.9
6HP	3.6	3.8	3.5	3.8

- Longest Piping Length

Total piping length	300m
Longest piping length (Equivalent)	150m(175m)
Longest piping length after 1st branch	40m
Level difference between ODU-IDU	50m(40m*)
Level difference between IDU-IDU	15m
Level difference between ODU-ODU	5m

\*Outdoor unit is lower than indoor unit.

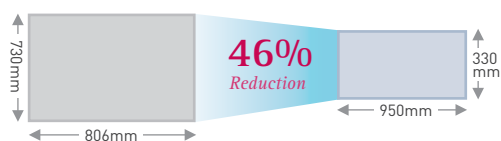
### Conventional

5, 6 HP

**MULTI V  
MINI**

4, 5, 6 HP

### • Foot print area



### • Volume



WxHxD : 806x1607x730

WxHxD : 950x1380x330

## Slim & Compact Size

Easy & efficient installation of MULTI V MINI will provide the best solution for small offices and shops.





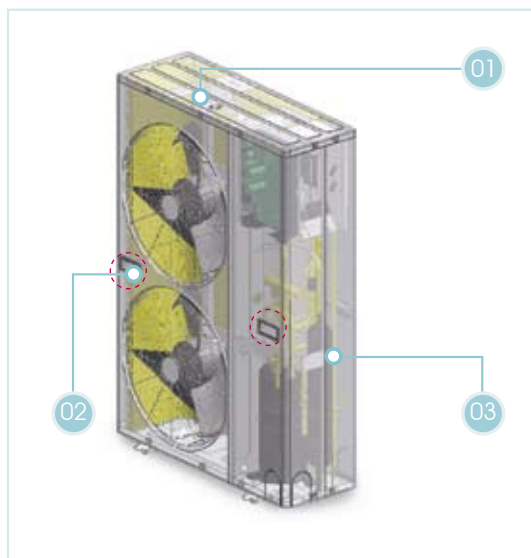
MULTI V MINI can be easily installed in small offices and shops. Designed for low-noise operation, it ensures a pleasant air conditioned environment.



## Max. 9 Indoor Units Connectable

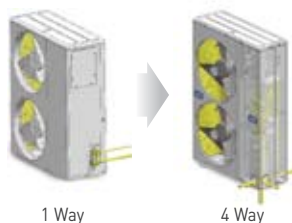
Maximum 9 indoor units can be connected to one single outdoor unit with 130% indoor unit combination.

- 9 indoor units for 6HP
- 8 indoor units for 5HP
- 6 indoor units for 4HP

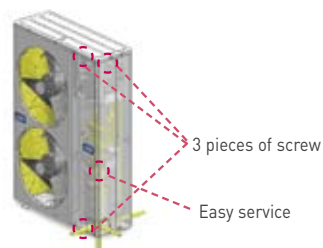


## Easy to Service

- 01 Inner SVC valve
- 4 Way piping is possible (Front, Rear, Right, Down)
  - Excellent exterior



- 02 Convenient moving handle
- 03 Compact design & Easy service
- Remove 3 pieces of screw for SVC
  - Front panel removal system



## '09 New Feature

- DC Inverter Compressor & Fan motor
- Black Box Function
- Night Silent Operation
- Fault Detect & Diagnosis
- Pump Down



**MULTI V<sup>TM</sup>**  
**MINI**

### \* Specifications

HP	Independent Unit	
Model		
Capacity	Cooling	kW
	Heating	kW
Power	Cooling	kW
Input	Heating	kW
COP	Cooling	
	Heating	
Power Supply	Ø, V, Hz	
Dimensions(WxHxD)	mm	
Weight	kg	
Color		
Noise level	Cooling	dB(A)±3
	Heating	dB(A)±3
Fan	Type	
	Air flow rate	[CMM]
Compressor	Type	
	Number of compressors	
Heat Exchanger		
Refrigerant	Type	
	Charge	kg
	Control	
Refrigerant	Type	
Oil	Charge	l
Piping	Liquid Pipes	mm(inch)
Connections	Gas Pipes	mm(inch)
Number of outdoor unit		
Number of maximum connectable indoor units		
Ratio of the connectable indoor units		
Longest piping length / Level difference		

\*1Ø, 220V

4	5	6
ARUN40GS2	ARUN50GS2	ARUN60GS2
11.2	14.0	15.5
12.5	16.0	18.0
2.9	3.8	4.3
3.1	4.0	4.7
3.86	3.68	3.60
4.03	4.00	3.83
1, 220 - 240, 50		
950 x 1380 x 330	950 x 1380 x 330	950 x 1380 x 330
118	118	118
Warm Gray		
50	51	52
52	53	54
BLDC		
110	110	110
DC INVERTER		
1	1	1
Gold Fin		
R410A		
3.7	3.7	3.7
EEV		
FV50S[PVE]	FV50S[PVE]	FV50S[PVE]
1.7	1.7	1.7
Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
Ø15.88(5/8)	Ø15.88(5/8)	Ø19.05(3/4)
1	1	1
6	8	9
50-130%		
150m/50m		

\*3Ø, 380V

4	5	6
ARUN40LS2	ARUN50LS2	ARUN60LS2
11.2	14.0	15.5
12.5	16.0	18.0
3.0	3.9	4.4
3.2	4.1	4.8
3.73	3.59	3.52
3.91	3.90	3.75
3, 380 - 415, 50		
950 x 1380 x 330	950 x 1380 x 330	950 x 1380 x 330
112	112	112
Warm Gray		
50	51	52
52	53	54
BLDC		
110	110	110
DC INVERTER		
1	1	1
Gold Fin		
R410A		
3.7	3.7	3.7
EEV		
FV50S[PVE]	FV50S[PVE]	FV50S[PVE]
1.3	1.3	1.3
Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
Ø15.88(5/8)	Ø15.88(5/8)	Ø19.05(3/4)
1	1	1
6	8	9
50-130%		
150m/50m		



#### Note :

- Capacities are based on the following conditions  
Cooling-Indoor temp. 27°C[80.6°F]DB / 19°C[66.2°F]WB  
Outdoor temp. 35°C[95°F]DB / 24°C[75.2°F]WB  
Interconnecting piping length 7.5m  
Level difference of zero

- Heating-Indoor temp. 20°C[68°F]DB / 15°C[59°F]WB  
Outdoor temp. 7°C[44.6°F]DB / 6°C[42.8°F]WB  
Interconnecting piping length 7.5m  
Level difference of zero

- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- EEV : Electronic Expansion Valve



MULTI V Inverter system offers one of the world's largest capacity units, essential for high-rise buildings. We are proud to say the system will ensure the highest level of customer satisfaction.

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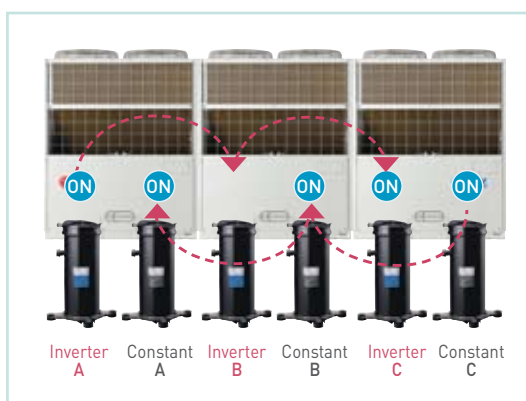
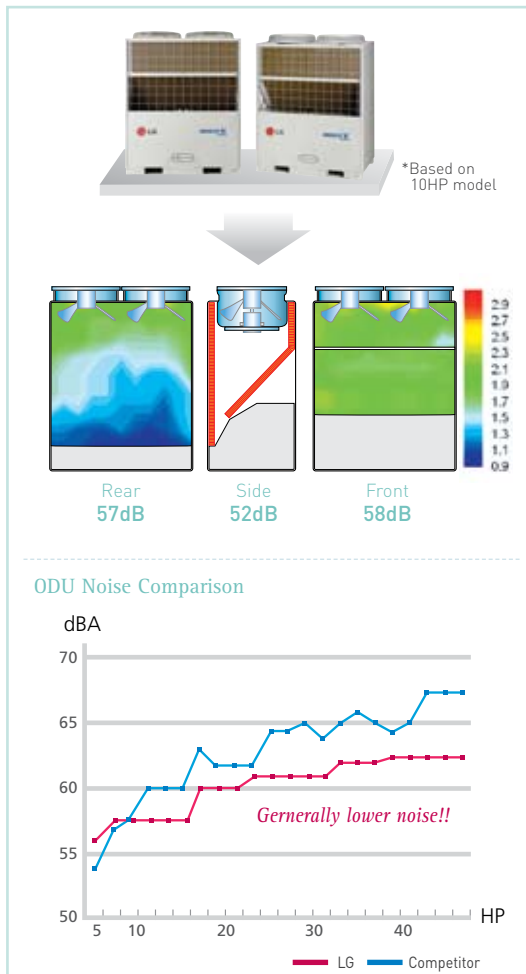
Enjoy a clean & comfortable life with MULTI V.





## TECHNOLOGY

Your life will be upgraded through the state-of-the-art technology of MULTI V PLUS II.



### Low Noise

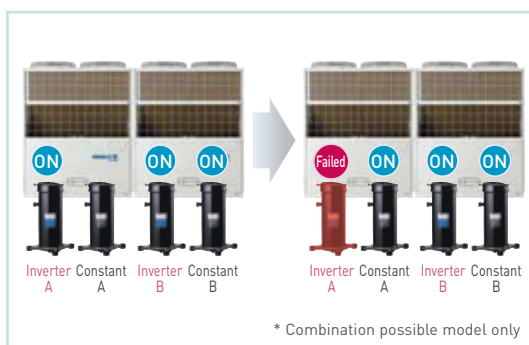
- Latest technology and features are applied to the new outdoor units to reduce noise level.

### Alternate-Cycling Function

- To extend compressors' life span by operating them alternately  
Inverter A  $\leftrightarrow$  Inverter B  $\leftrightarrow$  Inverter C  
Constant A  $\leftrightarrow$  Constant B  $\leftrightarrow$  Constant C
- To meet diverse load in operation



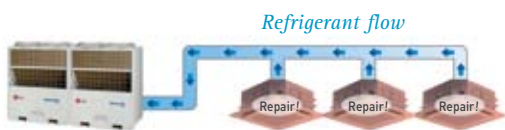
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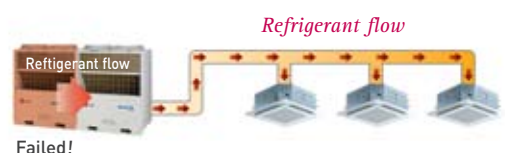
## Automatic Back-Up

- For emergency, it makes back-up operation possible before trouble-shooting  
Inverter A, B + Constant B  
→ Inverter B + Constant A, B
- Error notice in indoor unit : 4 times per day (every 6 hour)

### • Pump down

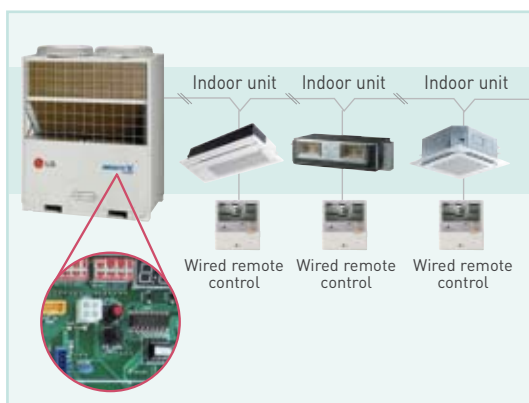


### • Pump out



## Pump Down & Pump Out

- Pump down  
When indoor units need to replace, refrigerant can be collected to the outdoor unit.  
- MULTI V MINI / PLUS II / SYNC II / SPACE II
- Pump out  
If left outdoor unit breakdown, refrigerant can be sent to another outdoor and indoor unit during service.  
- MULTI V PLUS II / SYNC II

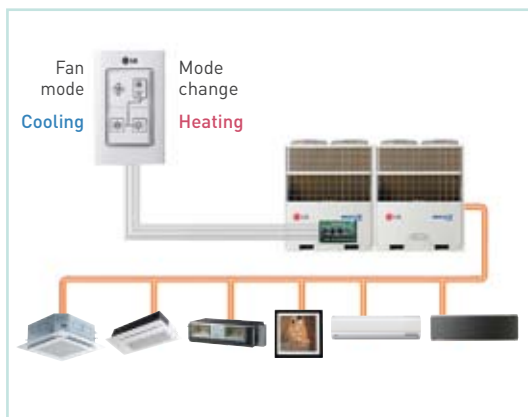
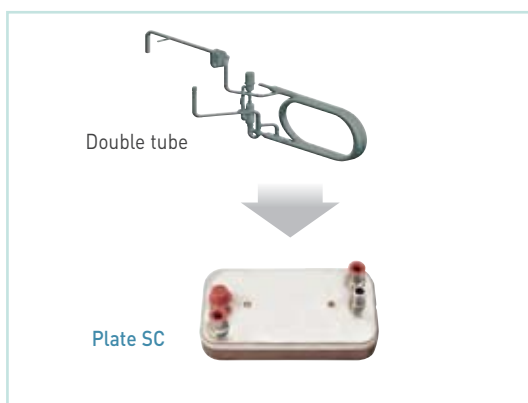
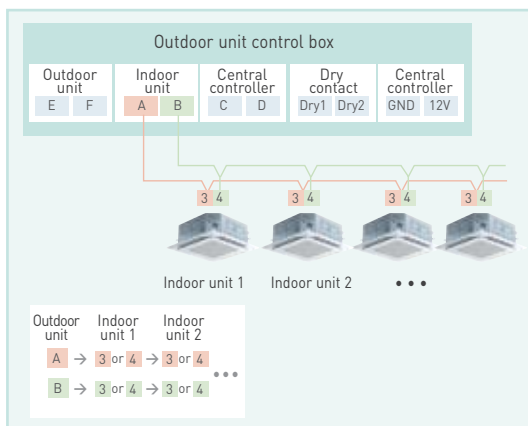


## Auto addressing

Addressing outdoor units and indoor units are automatically done just by pressing the button.

## CONVENIENCE

From installation and transportation to maintenance and service, MULTI V PLUS II adds convenience to cutting-edge technology.



## Non-Polarity Transmission Connection

Easy installation and no errors for transmission line connections

## Plate Type SC HEX

- Increased sub-cooling by high-performance heat exchanger
- Enable to be long piping length and level difference
- More powerful cooling operation

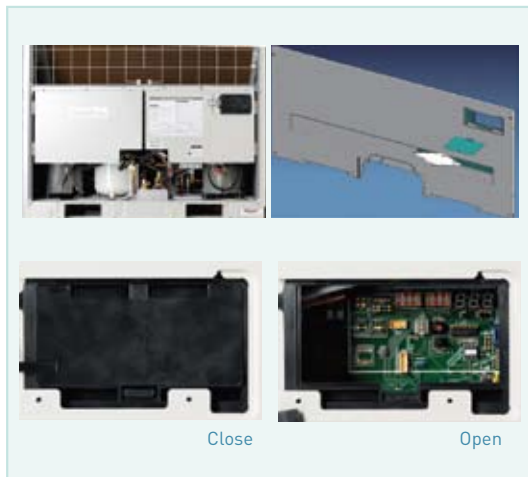
## Cool / Heat Selector

- Control all units without any central controller installed
- Select operation mode (Air circulation, cooling, heating)
- Mode lock for heating & cooling mixing error-proof during the change of season



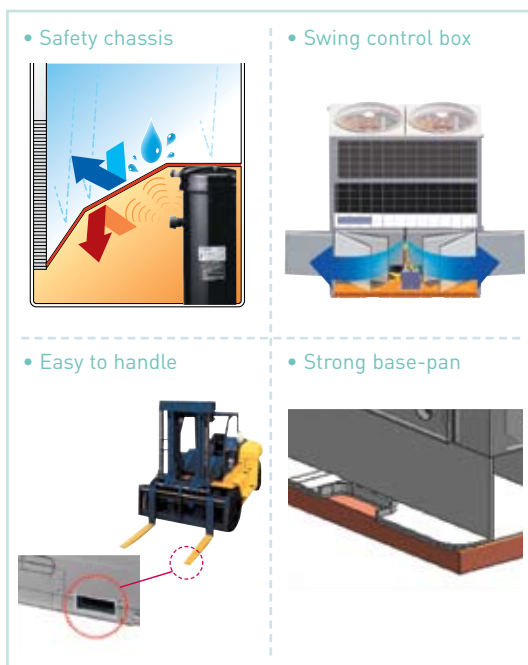
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### Separate Front Panel

- Easy access to main PCB (DIP switch)
- Convenient during service and start-up
- Benefits for technician, installer



### Other Features

- Resistant to dust, rain, corrosion and others
  - Convenient maintenance due to swing door type control box
  - Easy to handle through fork lift slot
  - Strong base-pan support
-



## '09 New Feature

- DC Inverter Compressor & Fan motor
- Black Box Function
- Night Silent Operation
- Fault Detect & Diagnosis
- Pump Down & Pump Out



**MULTI V<sup>TM</sup>**  
**PLUS II**

### \* Specifications

HP		
Model		Combination unit
		Independent unit
Capacity	Cooling	kW
	Heating	kW
Power	Cooling	kW
	Heating	kW
COP	Cooling	
	Heating	
Power Supply		Ø, V, Hz
Dimensions(WxHxD)		mm
Weight		kg
Color		
Noise level		dBA±3
Fan	Type	
	Air flow rate	[CMM]
Compressor	Type	
	Number of compressors	
Heat Exchanger		
Refrigerant	Type	
	Charge	kg
	Control	
Refrigerant Oil	Type	
	Charge	l
Piping	Liquid Pipes	mm(inch)
Connections	Gas Pipes	mm(inch)
Number of outdoor unit		
Number of maximum connectable indoor units *		
Ratio of the connectable indoor units		
Longest piping length / Level difference **		

5	6	8	10	12	14	16
ARUN50LT2	ARUN60LT2	ARUN80LT2	ARUN100LT2	ARUN120LT2	ARUN140LT2	ARUN160LT2
ARUN50LT2	ARUN60LT2	ARUN80LT2	ARUN100LT2	ARUN120LT2	ARUN140LT2	ARUN160LT2
14.0	16.0	22.4	28.0	33.6	39.2	44.8
15.8	18.0	25.2	31.5	37.8	44.1	50.4
3.75	4.25	5.28	7.16	9.08	11.85	14.00
4.00	4.55	5.73	7.33	9.05	10.60	12.40
3.73	3.76	4.24	3.91	3.70	3.31	3.20
3.95	3.96	4.40	4.30	4.18	4.16	4.06
3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50
806×1607×730	806×1607×730	1280×1607×730	1280×1607×730	1280×1607×730	1280×1607×730	1280×1607×730
175	175	240	285	285	285	285
Warm Gray						
56	56	58	58	58	58	58
Propeller Fan (DC INV)						
105	105	190	190	190	190	190
DC Inverter Scroll			DC Inverter Scroll / Constant speed Scroll			
1	1	1	2	2	2	2
Gold fin						
R410A						
4.5	4.5	8	8	8	8	8
EEV						
FVC68D(PVE)						
2.3	2.3	3.3	5.6	5.6	5.6	5.6
Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)
Ø15.88(5/8)	Ø19.05(3/4)	Ø19.05(3/4)	Ø22.2(7/8)	Ø28.58(1 1/8)	Ø28.58(1 1/8)	Ø28.58(1 1/8)
1	1	1	1	1	1	1
8(12)	9(14)	13(20)	16(25)	19(30)	23(35)	26(40)
50~200%						
200m/100m						

Check up the note, refer to on the 27 page.



## \* Specifications

HP		
Model		Combination unit Independent unit
Capacity	Cooling	kW
	Heating	kW
Power	Cooling	kW
	Heating	kW
COP	Cooling	
	Heating	
Power Supply		Ø, V, Hz
Dimensions(WxHxD)		mm
Weight		kg
Color		
Noise level	dBA±3	
Fan	Type	
	Air flow rate	[CMM]
Compressor	Type	
	Number of compressors	
Heat Exchanger		
Refrigerant	Type	
	Charge	kg
	Control	
Refrigerant	Type	
	Oil	l
Piping	Liquid Pipes	mm(inch)
Connections	Gas Pipes	mm(inch)
Number of outdoor unit		
Number of maximum connectable indoor units *		
Ratio of the connectable indoor units		
Longest piping length / Level difference **		

18	20	22	24	26	28	30	32
ARUN180LT2	ARUN200LT2	ARUN220LT2	ARUN240LT2	ARUN260LT2	ARUN280LT2	ARUN300LT2	ARUN320LT2
ARUN120LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2	ARUN140LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2
ARUN60LT2	ARUN60LT2	ARUN60LT2	ARUN80LT2	ARUN120LT2	ARUN140LT2	ARUN140LT2	ARUN160LT2
50.4	56.0	61.6	67.2	72.8	78.4	84.0	89.6
56.7	63.0	69.3	75.6	81.9	88.2	94.5	100.8
13.33	16.10	18.25	19.28	20.93	23.70	25.85	28.00
13.60	15.15	16.95	18.13	19.65	21.20	23.00	24.80
3.78	3.48	3.38	3.49	3.48	3.31	3.25	3.20
4.17	4.16	4.09	4.17	4.17	4.16	4.11	4.06
3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50
(1280×1607×730) +{806×1607×730}	(1280×1607×730) +{806×1607×730}	(1280×1607×730) +{806×1607×730}	(1280×1607×730)×2	(1280×1607×730)×2	(1280×1607×730)×2	(1280×1607×730)×2	(1280×1607×730)×2
285×175	285×175	285×175	285×240	285×2	285×2	285×2	285×2
Warm Gray							
60	60	60	61	61	61	61	61
Propeller Fan(DC INV)							
295	295	295	380	380	380	380	380
DC Inverter Scroll / Constant speed Scroll							
3	3	3	3	4	4	4	4
Gold fin							
R410A							
4.5+8	4.5+8	4.5+8	8+8	8+8	8+8	8+8	8+8
EEV							
FVC68D(PVE)							
5.6+2.3	5.6+2.3	5.6+2.3	5.6+3.3	5.6×2	5.6×2	5.6×2	5.6×2
Ø15.88(5/8)	Ø15.88(5/8)	Ø15.88(5/8)	Ø15.88(5/8)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)
Ø28.58(1 1/8)	Ø28.58(1 1/8)	Ø28.58(1 1/8)	Ø34.9(1 3/8)	Ø34.9(1 3/8)	Ø34.9(1 3/8)	Ø34.9(1 3/8)	Ø34.9(1 3/8)
2	2	2	2	2	2	2	2
29[36]	32[40]	35[44]	39[48]	42[52]	45[56]	49[60]	52[64]
50~160mm							
200m/100m							

HP		
Model		Combination unit Independent unit
Capacity	Cooling	kW
	Heating	kW
Power Input	Cooling	kW
	Heating	kW
COP	Cooling	
	Heating	
Power Supply	Ø, V, Hz	
Dimensions(WxHxD)	mm	
Weight	kg	
Color		
Noise level	dBA±3	
Fan	Type	
	Air flow rate	[CMM]
Compressor	Type	
	Number of compressors	
Heat Exchanger		
Refrigerant	Type	
	Charge	kg
	Control	
Refrigerant Oil	Type	
	Charge	l
Piping	Liquid Pipes	mm(inch)
Connections	Gas Pipes	mm(inch)
Number of outdoor unit		
Number of maximum connectable indoor units		
Ratio of the connectable indoor units		
Longest piping length / Level difference **		

34	36	38	40	42	44	46	48
ARUN340LT2	ARUN360LT2	ARUN380LT2	ARUN400LT2	ARUN420LT2	ARUN440LT2	ARUN460LT2	ARUN480LT2
ARUN140LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2
ARUN140LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2	ARUN140LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2
ARUN60LT2	ARUN60LT2	ARUN60LT2	ARUN80LT2	ARUN140LT2	ARUN140LT2	ARUN140LT2	ARUN160LT2
95.2	100.8	106.4	112.0	117.6	123.2	128.8	134.4
107.1	113.4	119.7	126.0	132.3	138.6	144.9	151.2
27.95	30.10	32.25	33.28	35.55	37.70	39.85	42.00
25.75	27.55	29.35	30.53	31.80	33.60	35.40	37.20
3.41	3.35	3.30	3.37	3.31	3.27	3.23	3.20
4.16	4.12	4.08	4.13	4.16	4.13	4.09	4.06
3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50
(1280×1607×730)×2 +{806×1607×730}	(1280×1607×730)×2 +{806×1607×730}	(1280×1607×730)×2 +{806×1607×730}	(1280×1607×730)×3	(1280×1607×730)×3	(1280×1607×730)×3	(1280×1607×730)×3	(1280×1607×730)×3
285x2+175	285x2+175	285x2+175	285x2+240	285×3	285×3	285×3	285×3
Warm Gray							
62	62	62	63	63	63	63	63
Propeller Fan(DC INV)							
485	485	485	570	570	570	570	570
DC Inverter Scroll / Constant speed Scroll							
5	5	5	5	6	6	6	6
Gold fin							
R410A							
4.5+8+8	4.5+8+8	4.5+8+8	8+8+8	8+8+8	8+8+8	8+8+8	8+8+8
EEV							
FVC68D(PVE)							
5.6x2+2.3	5.6x2+2.3	5.6x2+2.3	5.6x2+3.3	5.6x3	5.6x3	5.6x3	5.6x3
Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)
Ø34.9(1 3/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)
3	3	3	3	3	3	3	3
55	58	61	64	64	64	64	64
50~130%							
200m/100m							

## MULTI V PLUS II ensures economic life with high energy efficiency!!

### \* Specifications

HP			50	52	54	56	58	60	62	64
Model			ARUN500LT2	ARUN520LT2	ARUN540LT2	ARUN560LT2	ARUN580LT2	ARUN600LT2	ARUN620LT2	ARUN640LT2
Combination unit			ARUN140LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2
Independent unit			ARUN140LT2	ARUN140LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2
Capacity			140	145.6	151.2	156.8	162.4	168	173.6	179.2
Cooling			157.5	163.8	170.1	176.4	182.7	189	195.3	201.6
Heating			40.83	42.98	45.13	47.28	49.16	51.08	53.85	56.00
Power			37.53	39.33	41.13	42.93	44.53	46.25	47.80	49.60
Cooling			3.43	3.39	3.35	3.32	3.30	3.29	3.22	3.20
Heating			4.20	4.16	4.14	4.11	4.10	4.09	4.09	4.06
COP			3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50
Power Supply			Ø, V, Hz	Ø, V, Hz	Ø, V, Hz	Ø, V, Hz	Ø, V, Hz	Ø, V, Hz	Ø, V, Hz	Ø, V, Hz
Dimensions(WxHxD)			mm	mm	mm	mm	mm	mm	mm	mm
Weight			kg	kg	kg	kg	kg	kg	kg	kg
Color			285X3+240	285X3+240	285X3+240	285X3+240	285x4	285x4	285x4	285x4
Noise level			Warm Gray							
Fan			64	64	64	64	64	64	64	64
Type			Propeller Fan(DC INV)							
Air flow rate [CMM]			760	760	760	760	760	760	760	760
Compressor			DC Inverter Scroll / Constant speed Scroll							
Type			7	7	7	7	8	8	8	8
Number of compressors			Gold fin							
Heat Exchanger			R410A							
Refrigerant			8+8+8+8	8+8+8+8	8+8+8+8	8+8+8+8	8+8+8+8	8+8+8+8	8+8+8+8	8+8+8+8
Type			EEV							
Charge			FVC68D(PVE)							
Control			5.6X3+3.3	5.6X3+3.3	5.6X3+3.3	5.6X3+3.3	5.6x4	5.6x4	5.6x4	5.6x4
Refrigerant			Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)
Oil			Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)
Charge			4	4	4	4	4	4	4	4
Liquid Pipes			64	64	64	64	64	64	64	64
Gas Pipes			50~130%							
mm(inch)			200m/100m							
Number of outdoor unit										
Number of maximum connectable indoor units										
Ratio of the connectable indoor units										
Longest piping length / Level difference **										

\* The number of (l) means the number of max. connectable indoor units, when the connected capacity of indoor units is in the table below.

\*\* Conditional Application

To make 40~90m of pipe length after first branch refer to the part of "installation of outdoor units" in PDB

#### Note :

##### 1. Capacities are based on the following conditions

Cooling-Indoor temp. 27°C[80.6°F]DB / 19°C[66.2°F]WB  
Outdoor temp. 35°C[95°F]DB / 24°C[75.2°F]WB  
Interconnecting piping length 7.5m  
Level difference of zero

Heating-Indoor temp. 20°C[68°F]DB / 15°C[59°F]WB  
Outdoor temp. 7°C[44.6°F]DB / 6°C[42.8°F]WB  
Interconnecting piping length 7.5m  
Level difference of zero

##### 2. Capacities are net capacities

3. Due to our policy of innovation some specifications may be changed without notification

4. EEV : Electronic Expansion Valve

#### CAUTION

• A combination operation over 100% cause to reduce each indoor unit capacity

• Combination ratio[50~200%]

No. of outdoor unit	Connection Capacity
Single unit	200%
Double unit	160%
Triple unit	130%
Over triple unit	130%

We can guarantee the operation only within 130% Combination.

If you want to connect more than 130% combination, please contact us and discuss the requirement like below.

- 1) If the operation of indoor unit is more than 130%, low airflow operation is recommended in all the indoor units.
- 2) If the operation of indoor unit is more than 130%, additional refrigerant is needed according to the headquarter guidance.
- 3) Over 130%, capacity is same as capacity of 130%, Same remark is valid for power input.



Simultaneous heating and cooling with one outdoor unit, MULTI V SYNC II. Your environment is ensured of optimum conditions regardless of season or space.

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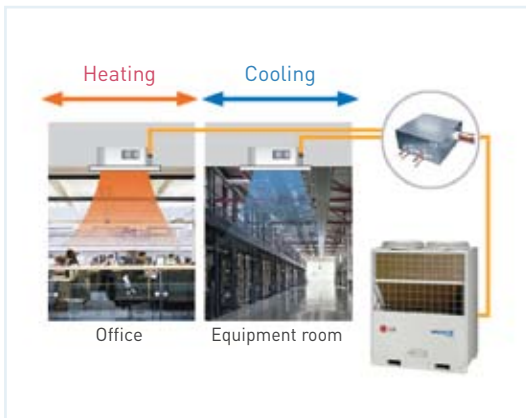


Enjoy a clean & comfortable life with MULTI V.



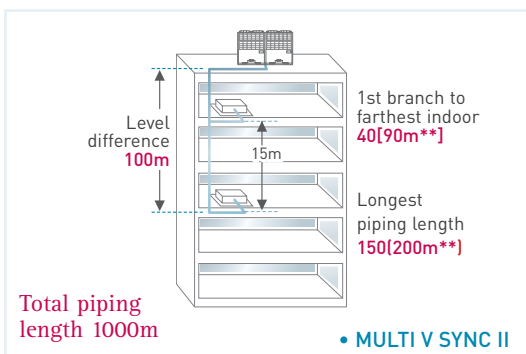
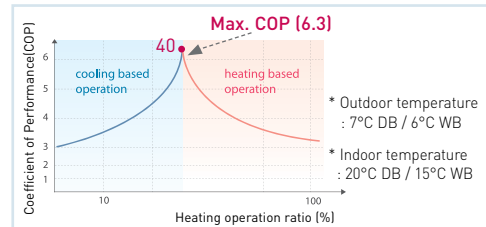
# TECHNOLOGY

Your life will be upgraded through the state-of-the-art technology of MULTI V SYNC II.



## Heating & Cooling Synchronous Operation

- High COP up to 6.3
  - When, cooling(40%) + heating(60%)
- Energy consumption can be decreased by 30%



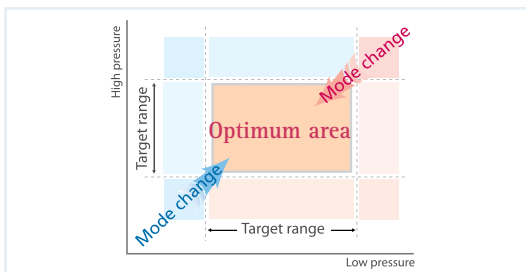
## Long Piping Length

- MULTI V SYNC II

Total piping length	1000m
Longest piping length	150m[200m**]
Longest piping length after 1st branch	40m[90m**]
Level difference between ODU-IDU	100m
Level difference between IDU-IDU	15m
Level difference between ODU-ODU	5m

- Refer to the specifications for more information

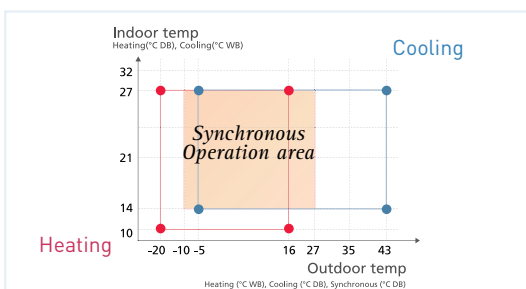
\*\* Conditional application  
To make 40~90m of pipe length after first branch, refer to the part of "installation of outdoor units" in PDB



## AMC (Advanced Mode Change)

AMC control provides an optimal cycle operation under any conditions.

- Real time pressure control
- Optimal cycle in optimum area
- Needed time to change mode : Max. 3min



## Wide Operation Range

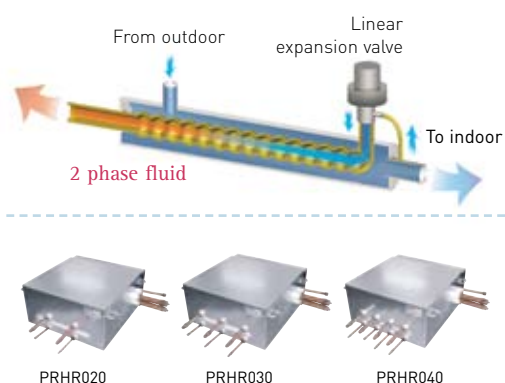
Wide operation range

- Heating mode : - 20°C WB ~ 16°C WB
- Cooling mode : - 5°C DB ~ 43°C DB
- Synchronous mode : - 10°C DB ~ 27°C DB

# MULTI V<sup>TM</sup> SYNC II

Simultaneous heating and cooling with one outdoor unit, MULTI V SYNC II. Your environment is ensured of optimum conditions regardless of season or space.

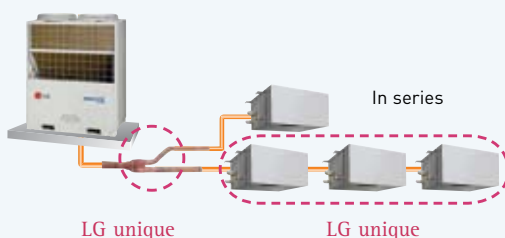
## • Double spiral tube heat exchanger



## High Efficiency Heat Recovery Unit

- High efficient double spiral tube type SCI circuit
- Maximum 4 indoor units connectable per one HR unit
- Easy installation with auto piping detect function

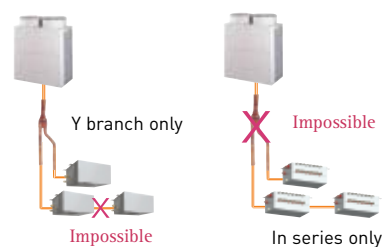
## • MULTI V SYNC II



## Flexible Connection of HR Unit

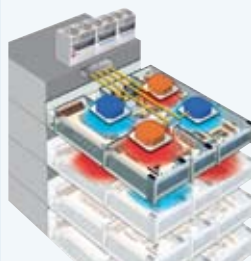
LG's heat recovery unit allows flexible connection both in series and in a row.

### • Conventional



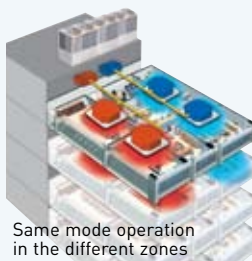
## • MULTI V SYNC II

*Free zoning!*



## • Conventional

*Inconvenient zoning!*

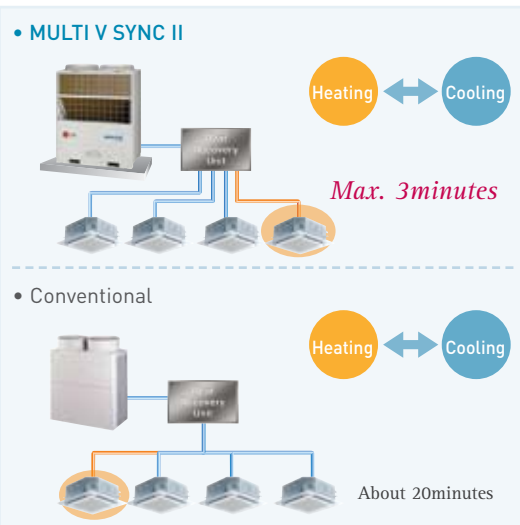


## Convenient Free Zoning

MULTI V SYNC II provides perfect individual zoning in each rooms for the user's convenience.

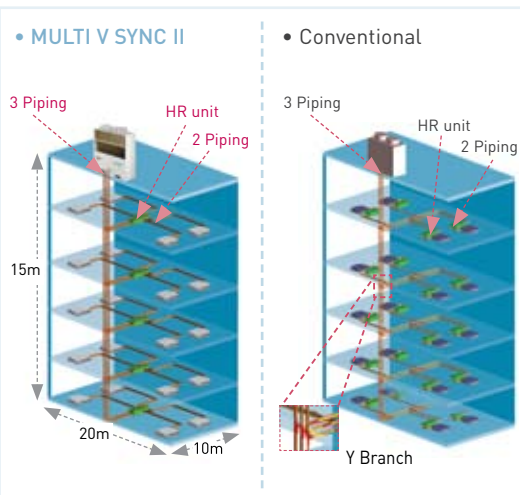
# COMFORT

MULTI V SYNC II ensures the comfort of all users with flexible design and easy installation.



## Fast Response of Mode Change

When the user wants to change the indoor unit's operating mode (ex. cooling → heating), MULTI V SYNC II takes less time compared to the conventional. This fast response of mode change provides a more pleasant and comfortable air conditioning.



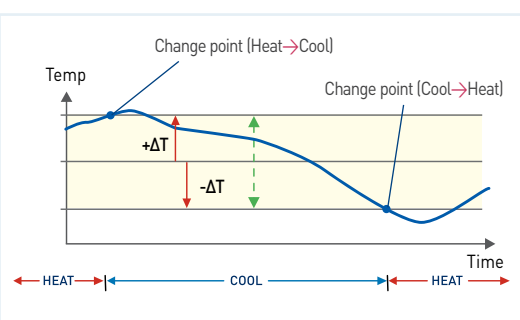
## Excellent Multiple HR Unit

LG's HR unit provides the flexible and convenient installation with lower cost.

LG needs less installation cost than the conventional

	LG	Conventional
Y branch	12 unit	57 unit
HR unit	5 unit	20 unit
Total piping length	690m	840m

\* Assumed with 5 stories building



## Auto Changeover

Auto changeover automatically change operating mode cool and heat, to maintain optimum room temperature, so no need of changing the mode during the change of season.



## '09 New Feature

- DC Inverter Compressor & Fan motor
- Black Box Function
- Night Silent Operation
- Fault Detect & Diagnosis
- Pump Down & Pump Out



**MULTI V**  
SYNCO II



### \* Specifications

HP		
Model		Combination unit
		Independent unit
Capacity	Cooling	kW
	Heating	kW
Power	Cooling	kW
	Heating	kW
COP	Cooling	
	Heating	
Power Supply		Ø, V, Hz
Dimensions(WxHxD)		mm
Weight		kg
Color		
Noise level		dBA±3
Fan	Type	
	Air flow rate	[CMM]
Compressor	Type	
	Number of compressors	
Heat Exchanger		
Refrigerant	Type	
	Charge	kg
	Control	
Refrigerant	Type	
	Oil	Charge l
Piping	Liquid(flare)	mm(inch)
Connections	Suction Gas	mm(inch)
	Discharge Gas	mm(inch)
Number of outdoor unit		
Number of maximum connectable indoor units *		
Ratio of the connectable indoor units		
Longest piping length / Level difference **		

8	10	12	14	16	18	20
ARUB80LT2	ARUB100LT2	ARUB120LT2	ARUB140LT2	ARUB160LT2	ARUB180LT2	ARUB200LT2
ARUB80LT2	ARUB100LT2	ARUB120LT2	ARUB140LT2	ARUB160LT2	ARUB100LT2 ARUB80LT2	ARUB120LT2 ARUB80LT2
22.4	28.0	33.6	39.2	44.8	50.4	56.0
25.2	31.5	37.8	44.1	50.4	56.7	63.0
5.28	7.16	9.08	11.85	14.00	12.44	14.36
5.73	7.33	9.05	10.60	12.40	13.06	14.78
4.24	3.91	3.70	3.31	3.20	4.05	3.90
4.40	4.30	4.18	4.16	4.06	4.34	4.26
3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50	3, 380~415, 50
1280x1607x730	1280x1607x730	1280x1607x730	1280x1607x730	1280x1607x730	1280x1607x730)x2	1280x1607x730)x2
240	285	285	285	285	240+285	240+285
Warm Gray						
58	58	58	58	58	61	61
Propeller Fan(DC INV)						
190	190	190	190	190	380	380
DC Inverter Scroll	DC Inverter Scroll / Constant speed Scroll					
1	2	2	2	2	3	3
Gold fin						
R410A						
8	8	8	8	8	8+8	8+8
EEV						
FVC68D(PVE)						
3.3	5.6	5.6	5.6	5.6	5.6+3.3	5.6+3.3
Ø9.52(3/8)	Ø9.52(3/8)	Ø12.7(1/2)	Ø12.7(1/2)	Ø12.7(1/2)	Ø15.88(5/8)	Ø15.88(5/8)
Ø19.05(3/4)	Ø22.2(7/8)	Ø28.58(1 1/8)	Ø28.58(1 1/8)	Ø28.58(1 1/8)	Ø28.58(1 1/8)	Ø28.58(1 1/8)
Ø15.88(5/8)	Ø19.05(3/4)	Ø19.05(3/4)	Ø22.2(7/8)	Ø22.2(7/8)	Ø22.2(7/8)	Ø22.2(7/8)
1	1	1	1	1	2	2
13(20)	16(25)	19(30)	23(35)	26(40)	29(36)	32(40)
50~200%					50~160%	
200m/100m						

\* The number of (I) means the number of max. connectable indoor units, when the connected capacity of indoor units is in the table below.

\*\* Conditional Application

To make 40~90m of pipe length after first branch refer to the part of "installation of outdoor units" in PDB

#### Note :

##### 1. Capacities are based on the following conditions

Cooling-Indoor temp. 27°C[80.6°F]DB / 19°C[66.2°F]WB  
Outdoor temp. 35°C[95°F]DB / 24°C[75.2°F]WB  
Interconnecting piping length 7.5m  
Level difference of zero

Heating-Indoor temp. 20°C[68°F]DB / 15°C[59°F]WB  
Outdoor temp. 7°C[44.6°F]DB / 6°C[42.8°F]WB  
Interconnecting piping length 7.5m  
Level difference of zero

##### 2. Capacities are net capacities

##### 3. Due to our policy of innovation some specifications may be changed without notification

##### 4. EEV : Electronic Expansion Valve

#### CAUTION

- A combination operation over 100% cause to reduce each indoor unit capacity

- Combination ratio[50~200%]

No. of outdoor unit	Connection Capacity
Single unit	200%
Double unit	160%
Triple unit	130%

We can guarantee the operation only within 130% Combination.

If you want to connect more than 130% combination, please contact us and discuss the requirement like below.

- 1) If the operation of indoor unit is more than 130%, low airflow operation is recommended in all the indoor units.
- 2) If the operation of indoor unit is more than 130%, additional refrigerant is needed according to the headquarter guidance.
- 3) Over 130%, capacity is same as capacity of 130%. Same remark is valid for power input.



## MULTI V SYNC II simultaneous heating and cooling from a single outdoor unit!

### \* Specifications

HP		
Model		Combination unit
		Independent unit
Capacity	Cooling	kW
	Heating	kW
Power	Cooling	kW
	Heating	kW
Input	Cooling	kW
	Heating	kW
COP	Cooling	
	Heating	
Power Supply		Ø, V, Hz
Dimensions(WxHxD)		mm
Weight		kg
Color		
Noise level		dBA±3
Fan	Type	
	Air flow rate	[CMM]
Compressor	Type	
	Number of compressors	
Heat Exchanger		
Refrigerant	Type	
	Charge	kg
	Control	
Refrigerant	Type	
	Charge	l
Piping	Liquid(flare)	mm(inch)
Connections	Suction Gas	mm(inch)
	Discharge Gas	mm(inch)
Number of outdoor unit		
Number of maximum connectable indoor units *		
Ratio of the connectable indoor units		
Longest piping length / Level difference **		

22	24	26	28	30	32	34
ARUB220LT2	ARUB240LT2	ARUB260LT2	ARUB280LT2	ARUB300LT2	ARUB320LT2	ARUB340LT2
ARUB140LT2	ARUB160LT2	ARUB140LT2	ARUB140LT2	ARUB160LT2	ARUB160LT2	ARUB140LT2
ARUB80LT2	ARUB80LT2	ARUB120LT2	ARUB140LT2	ARUB140LT2	ARUB160LT2	ARUB120LT2
						ARUB80LT2
61.6	67.2	72.8	78.4	84.0	89.6	95.2
69.3	75.6	81.9	88.2	94.5	100.8	107.1
17.13	19.28	20.93	23.70	25.85	28.00	26.21
16.33	18.13	19.65	21.20	23.00	24.80	25.38
3.60	3.49	3.48	3.31	3.25	3.20	3.63
4.24	4.17	4.17	4.16	4.11	4.06	4.22
3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
(1280x1607x730)x2	(1280x1607x730)x2	(1280x1607x730)x2	(1280x1607x730)x2	(1280x1607x730)x2	(1280x1607x730)x2	(1280x1607x730)x3
240+285	240+285	285+285	285+285	285+285	285+285	240+285+285
Warm Gray						
61	61	61	61	61	61	63
Propeller Fan(DC INV)						
380	380	380	380	380	380	570
DC Inverter Scroll / Constant speed Scroll						
3	3	4	4	4	4	5
Gold fin						
R410A						
8+8	8+8	8+8	8+8	8+8	8+8	8+8+8
EEV						
FVC68D(PVE)						
5.6+3.3	5.6+3.3	5.6+5.6	5.6+5.6	5.6+5.6	5.6+5.6	5.6+5.6+3.3
Ø15.88(5/8)	Ø15.88(5/8)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)
Ø34.9(1 3/8)	Ø34.9(1 3/8)	Ø34.9(1 3/8)	Ø34.9(1 3/8)	Ø34.9(1 3/8)	Ø34.9(1 3/8)	Ø34.9(1 3/8)
Ø28.58(1 1/8)	Ø28.58(1 1/8)	Ø28.58(1 1/8)	Ø28.58(1 1/8)	Ø28.58(1 1/8)	Ø28.58(1 1/8)	Ø28.58(1 1/8)
2	2	2	2	2	2	3
35(44)	39(48)	42(52)	45(56)	49(60)	52(64)	55
50~160%						50~130%
200m/100m						

HP		
Model		Combination unit
		Independent unit
Capacity	Cooling	kW
	Heating	kW
Power	Cooling	kW
	Heating	kW
Input	Cooling	kW
	Heating	kW
COP	Cooling	
	Heating	
Power Supply		Ø, V, Hz
Dimensions(WxHxD)		mm
Weight		kg
Color		
Noise level		dBA±3
Fan	Type	
	Air flow rate	[CMM]
Compressor	Type	
	Number of compressors	
Heat Exchanger		
Refrigerant	Type	
	Charge	kg
	Control	
Refrigerant	Type	
	Charge	l
Piping	Liquid(flare)	mm(inch)
Connections	Suction Gas	mm(inch)
	Discharge Gas	mm(inch)
Number of outdoor unit		
Number of maximum connectable indoor units		
Ratio of the connectable indoor units		
Longest piping length / Level difference **		

36	38	40	42	44	46	48
ARUB360LT2	ARUB380LT2	ARUB400LT2	ARUB420LT2	ARUB440LT2	ARUB460LT2	ARUB480LT2
ARUB140LT2	ARUB160LT2	ARUB160LT2	ARUB160LT2	ARUB160LT2	ARUB160LT2	ARUB160LT2
ARUB140LT2	ARUB140LT2	ARUB160LT2	ARUB160LT2	ARUB140LT2	ARUB160LT2	ARUB160LT2
ARUB80LT2	ARUB80LT2	ARUB80LT2	ARUB100LT2	ARUB140LT2	ARUB140LT2	ARUB160LT2
100.8	106.4	112.0	117.6	123.2	128.8	134.4
113.4	119.7	126.0	132.3	138.6	144.9	151.2
28.98	31.13	33.28	35.16	37.7	39.85	42.0
26.93	28.73	30.53	32.13	33.6	35.40	37.2
3.48	3.42	3.37	3.34	3.27	3.23	3.20
4.21	4.17	4.13	4.12	4.13	4.09	4.06
3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x3
240+285+285	240+285+285	240+285+285	285+285+285	285+285+285	285+285+285	285+285+285
Warm Gray						
63	63	63	63	63	63	63
Propeller Fan(DC INV)						
570	570	570	570	570	570	570
DC Inverter Scroll / Constant speed Scroll						
5	5	5	6	6	6	6
Gold fin						
R410A						
8+8+8	8+8+8	8+8+8	8+8+8	8+8+8	8+8+8	8+8+8
EEV						
FVC68D(PVE)						
5.6+5.6+3.3	5.6+5.6+3.3	5.6+5.6+3.3	5.6+5.6+5.6	5.6+5.6+5.6	5.6+5.6+5.6	5.6+5.6+5.6
Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)	Ø19.05(3/4)
Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)	Ø41.3(1 5/8)
Ø28.58(1 1/8)	Ø34.9(1 3/8)	Ø34.9(1 3/8)	Ø34.9(1 3/8)	Ø34.9(1 3/8)	Ø34.9(1 3/8)	Ø34.9(1 3/8)
3	3	3	3	3	3	3
58	61	64	64	64	64	64
50~130%						
200m/100m						

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# MULTI V<sup>TM</sup> SPACE II

Economic and aesthetic space design MULTI V SPACE II is ideal for refined and luxurious living spaces.

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Enjoy a clean &  
comfortable life with MULTI V.

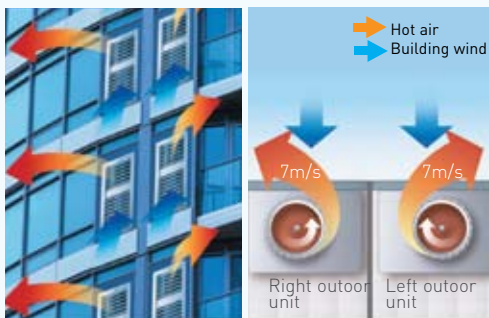


## COMFORT & SILENCE

The concept of the balcony is changed with the outdoor unit that does not generate hot air. Low noise and vibration technology of MULTI V SPACE II ensures a quiet environment.



### • MULTI V SPACE II



No efficiency reduction!

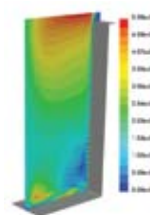
### Front Suction & Front Discharge

- Right and left side air flow system
- High speed air discharging (7~8m/sec)
- No interference between each floors (Efficiency reduction due to hot air back flow)

#### • Conventional



*Interference between floors!*



### • MULTI V SPACE II



#### • Conventional



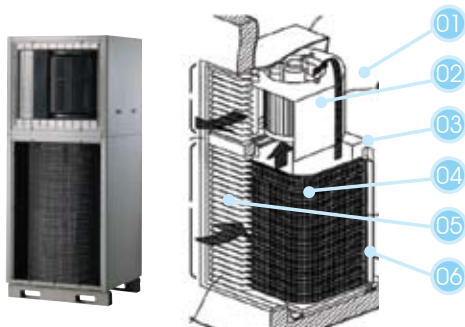
### Quiet Operation

The noise and vibration are reduced by

- Front discharge
- Sealed structure of outdoor unit

The indoor noise level is maintained at 30~40dBA, as quiet as being in the library

### • LG patents : 57items



### LG Patent For MULTI V SPACE II

All technologies in the MULTI V SPACE II which make it a distinctive, unique unit have been applied for patents domestically and internationally, and, some of them have already been registered.

- 01 Whole structure (8 items)
- 02 Air handler structure (18 items)
- 03 Separation of suction & discharge (6 items)
- 04 3-side heat exchange structure (3 items)
- 05 Louver structure /control (20 items)
- 06 Electrical part (2 items)

# MULTI V<sup>TM</sup> SPACE II

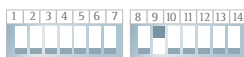
Economic and aesthetic space design MULTI V SPACE II is ideal for refined and luxurious living spaces.

## Duct application



## How to set up

### - E.S.P control



Step 1 → 4mmAq < ESP ≤ 6mmAq



Step 2 → 6mmAq < ESP ≤ 8mmAq



Step 3 → 8mmAq < ESP ≤ 10mmAq



Step 4 → 10mmAq < ESP ≤ 12mmAq

### - Noise control



Low blowing noise  
→ Max - 100 rpm

## Fan RPM Control (E.S.P & Noise Control)

- Enhanced installation flexibility (Duct application)
- No need of high static pressure exhaust fan and air guide
- Keeping capacity and noise level as desired



## 4-Step Modularized Design

- Modularized design of the outdoor unit provides simpler installation and maintenance.
- Outdoor unit can be installed according to overall building construction schedule.
- Louver is provided locally



\*6HP (ARUN60LR2, ARUN60LL2)  
\*8HP (ARUN80LR2, ARUN80LL2)



## '09 New Feature

- DC Inverter Compressor & Fan Motor
- Blackbox Function
- Night Silent Operation
- Pump Down



**MULTI V™**  
**SPACE II**

### \* Specifications

HP		
Model	Independent unit	
Capacity	Cooling	kW
	Heating	kW
Power	Cooling	kW
Input	Heating	kW
COP	Cooling	kW
	Heating	kW
Power Supply	Ø, V, Hz	
Dimensions(WxHxD)	mm	
Weight	kg	
Color		
Noise level	dBA±3	
E.S.P range	mmAq	
Fan	Type	
	Air flow rate [CMM]	
Compressor	Type	
	Number of compressors	
Heat Exchanger		
Refrigerant	Type	
	Charge	kg
	Control	
Refrigerant	Type	
Oil	Charge	l
Piping	Liquid(flare)	mm(inch)
Connections	Gas(Bazing)	mm(inch)
Number of outdoor unit		
Number of maximum connectable indoor units		
Ratio of the connectable indoor units		
Longest piping length / Level difference		

6		8	
ARUN60LR2 (Right Discharge)		ARUN80LR2 (Right Discharge)	
ARUN60LL2 (Left Discharge)		ARUN80LL2 (Left Discharge)	
16.0		21.7	
18.0		23.0	
4.7		6.7	
4.9		6.7	
3.40		3.24	
3.67		3.43	
3, 380~415, 50		3, 380~415, 50	
750 x 1790 x 650		750 x 1790 x 650	
200		200	
		Warm Gray	
49		53	
4~12		4~12	
		Sirocco Fan	
100		100	
		DC INV Scroll	
1		1	
		Gold Fin	
		R410A	
5.2		5.2	
		EEV	
		FVC68D(PVE)	
2.3		2.3	
9.52(3/8)		9.52(3/8)	
19.05(3/4)		19.05(3/4)	
1		1	
9		13	
		50~130%	
		150m/50m	

\* Preliminary data (8HP model)

#### Note :

- Capacities are based on the following conditions  
Cooling-Indoor temp. 27°C[80.6°F]DB / 19°C[66.2°F]WB  
Outdoor temp. 35°C[95°F]DB / 24°C[75.2°F]WB  
Interconnecting piping length 7.5m  
Level difference of zero

- Heating-Indoor temp. 20°C[68°F]DB / 15°C[59°F]WB  
Outdoor temp. 7°C[44.6°F]DB / 6°C[42.8°F]WB  
Interconnecting piping length 7.5m  
Level difference of zero

- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- EEV : Electronic Expansion Valve

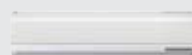
# **MULTI V™ series** Indoor unit

If you need a highly efficient air conditioning system in your building, MULTI V is the right choice for you.

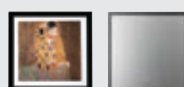


## **MULTI V** indoor

- 49 | Wall mounted
- 50 | ARTCOOL
- 52 | Ceiling Cassette
- 56 | Ceiling Concealed Duct
- 60 | Ceiling & Floor
- 61 | Ceiling Suspended
- 62 | Floor standing



Wall Mounted



**ART COOL**  
Gallery



**ART COOL**  
Mirror



4Way Casstte



2Way Casstte



1Way Casstte



Low Static



Built-in



High Static



Ceiling & Floor



Ceiling Suspended



Floor Standing  
- With Case

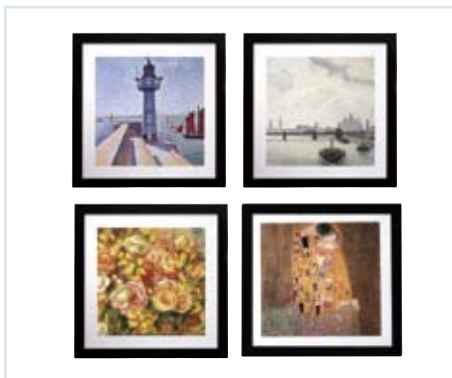


Floor Standing  
- Without Case



LG has been able to create a design conscious indoor unit that compliments any interior decoration. And they have improved air flow innovatively to realize world's lowest noise, and provide a more pleasant and convenient indoor environment.

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### Aesthetic Design

You no longer have to be told what your air conditioner should look like. With LG's revolutionary ARTCOOL photo changeable, you can simply change the look of your air conditioner to what you want, when you want to.

ARTCOOL series with outstanding designs have received International Forum Design Award, Reddot Design Award and G Mark.

#### - How to change the picture



#### - Panel type



Silver 07/09/12GSFV2



Gold 07/09/12GSFG2



Red 07/09/12GSFE2



White silver 07/09/12GSFH2

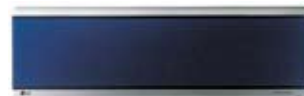
#### - ARTCOOL Mirror



Mirror 07/09/12/15GSER2  
18/24GS8R2



Silver 07/09/12/15GSEV2  
18/24GS8V2

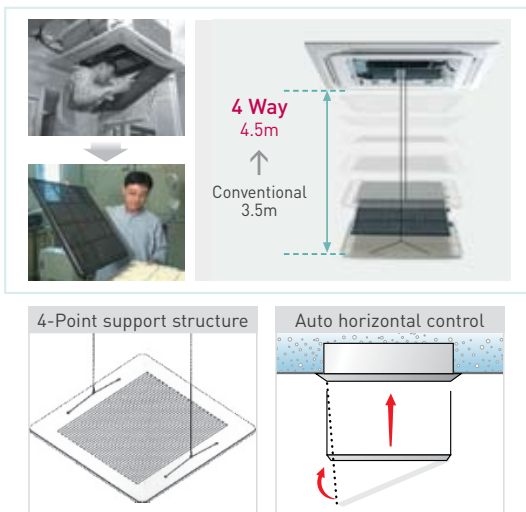
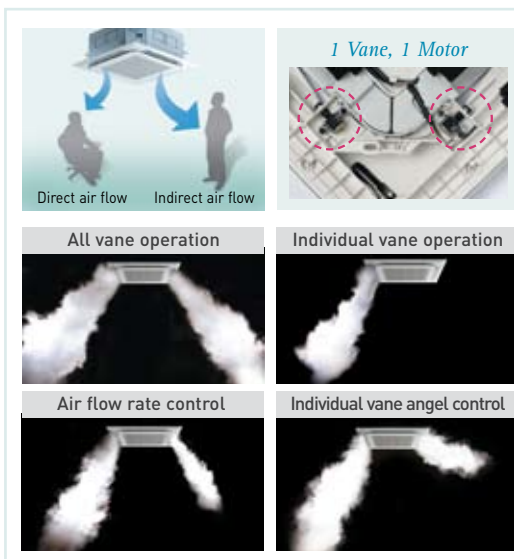
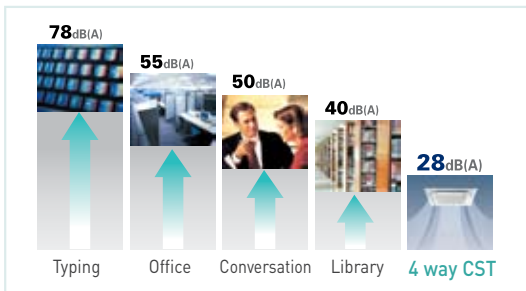


Blue 07/09/12/15GSEB2  
18/24GS8B2

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- Aesthetic Design
- Low Noise
- 4 Vane Independent Operation
- Auto Elevation Grille



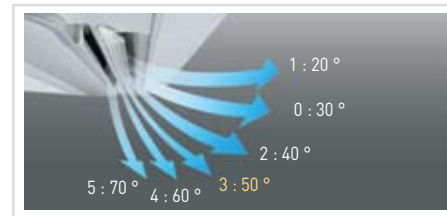
## Low Noise

Super light BLDC motor guarantees your enhanced comfortable indoor environment.

## 4 Vanes Independent Operation

Vane angle control satisfies both users who like direct wind and indirect wind, and also it prevents cold air draft.

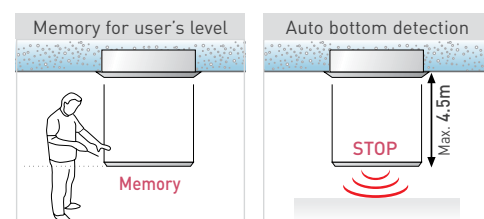
- Easy vane angle control with a remote controller



## Auto Elevation Grille

Easy filter cleaning with elevation grille

- Installed inside main body
- Auto horizontal level
- 4 points support
- Memory for user's level
- Max. 4.5m length

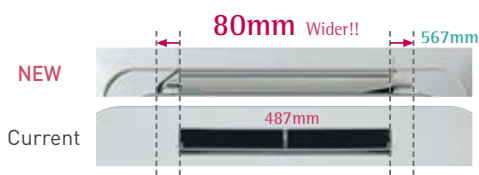


\*Available for 24k ~ 48k Btu/h

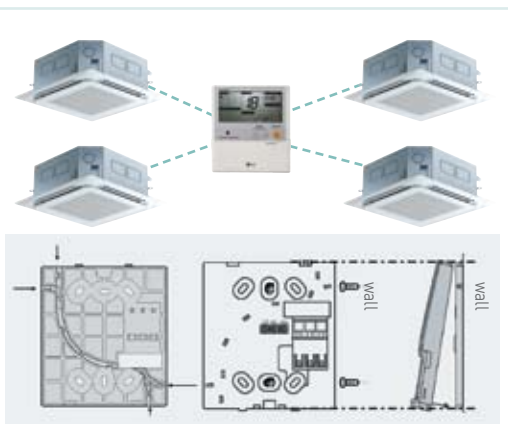
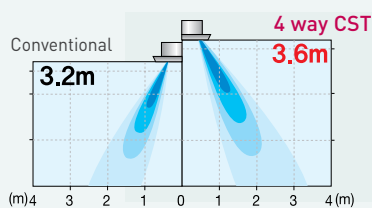
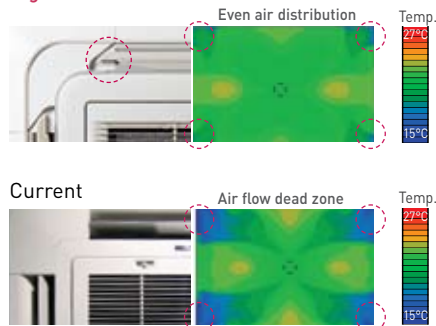
# MULTI V™

LG has been able to create a design conscious indoor unit that compliments any interior decoration. And they have improved air flow innovatively to realize world's lowest noise, and provide a more pleasant and convenient indoor environment.

## • Air flow improvement



## Highlander



## Wide Jet Vane

Improved wide and narrow vane will provide comfortable temperature distribution without air flow dead zone.

\* For 4 way cassette (570 \* 570), this function will be applied from May.

## High Ceiling Mode

High ceiling mode with phase-control algorithm is possible to apply as high as 3.6m of ceiling.

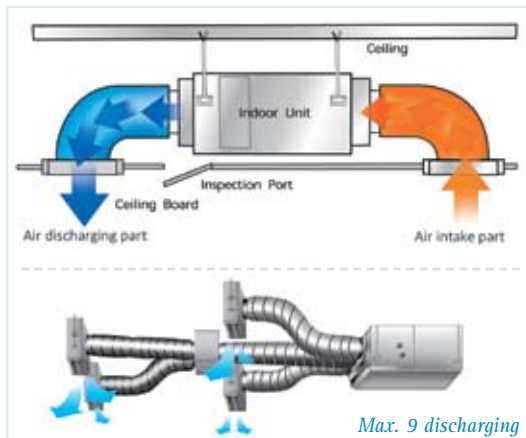
## Flexible Connection

Flexible connection of remote controller

- Group control  
: 1 remote controller to several indoor units
- Second remote control  
: 2 remote controllers to 1 indoor unit

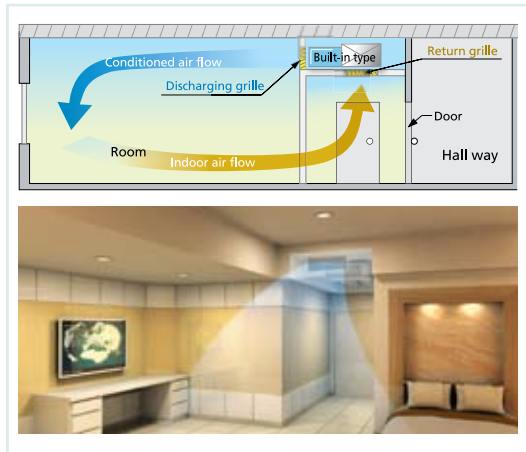
Easy & solid attachment to the wall

- Wide Jet Vane
- High Ceiling Mode
- Flexible Connection
- Application of Ceiling Concealed Duct
- Application of Built-in Duct
- Linear E.S.P Control



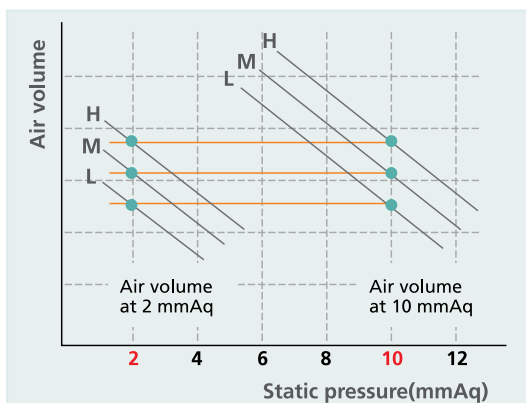
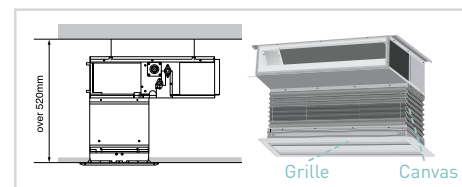
### Application of Ceiling Concealed Duct

It is possible to make each rooms cool & warm with installing a chamber and a spiral duct.



### Application of Built-in Duct

Built-in duct has no need of duct space with using suction canvas and grille.



\*E.S.P is easily controlled by remote controller

### Linear E.S.P Control

Air volume and sound are always kept as design regardless of E.S.P change using this technology, you can

- Optimize duct work Installation
- Keep capacity & sound level as desired
- Simplify model numbers

The phase control motor technology offers money saving benefit to the installer.

# MULTI V™

LG has been able to create a design conscious indoor unit that compliments any interior decoration. And they have improved air flow innovatively to realize world's lowest noise, and provide a more pleasant and convenient indoor environment.



## Compact Size

The indoor unit with slim and compact size has reduced the restriction which enables successful installation in various spaces.



## One Touch Type Panel

It provides easy installation with a one-touch detachable panel.

### • Corner detachable design



## Convenient Installation

Easy installation with corner detachable decoration panel.





- Compact Size
- One Touch Type Panel
- Convenient Installation
- Easy Drain Installation
- 3Way Flexible Installation
- Sliding Type Filter



Drain hose



Drain pump



## Easy Drain Installation

It reduces the installation time by over 40% with elbow-less drain hose.

Midget drain pump covers maximum 800mm high, featuring easy piping installation.

### \* Accessory (Drain hose)

PHDHA05T - 500mm 30EA

PHDHA07T - 700mm 30EA

PHDHA05B - 500mm 5EA

PHDHA07B - 700mm 5EA



## 3Way Flexible Installation

All sides (front, back, floor) are possible to install and connect to the outdoor unit.



Anti-biotic filter



Easy cleaning



Sliding type

## Sliding Type Filter

Easy maintenance and extended product life with sliding type anti-biotic filter.