



MULTI V™ Outdoor Unit

- 16 MULTI V MINI
- 20 MULTI V PLUS II
- 28 MULTI V SYNC II

MULTI V™ Indoor Unit

- 45 Wall Mounted
- 46 ARTCOOL
- 48 Ceiling Cassette
- 52 Ceiling Concealed Duct
- 56 Ceiling & Floor
- 57 Ceiling Suspended
- 58 Floor Standing

eco V™ Heat Recovery Ventilator

- 62 Features
- 63 Installation & Maintenance
- 64 Line-up
- 66 Specifications

V-NET™ Network Solution & Accessory

- 70 Remote Controller
- 72 Central Controller
- 80 Accessory

2008 **MULTI V™** Air Conditioning System



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2008 **MULTI V™** Air Conditioning System

Enjoy a clean & comfortable life with MULTI V.



<http://www.lgeaircon.com>

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 LGEMH 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

Global Air Conditioning Academies



Changwon in Korea

Pyeongtaek in Korea



Spain

Italy

Dubai

China

Saudi Arabia



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



Indoor Unit 34

- 45 Wall Mounted
- 46 ARTCOOL
- 48 Ceiling Cassette
- 52 Ceiling Concealed Duct
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- 57 Ceiling Suspended
- 58 Floor Standing



eco V (Heat Recovery Ventilator) 60

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- 64 Line-up
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V-net & Accessory 68

- 70 Remote Controller
- 72 Central Controller
- 80 Accessory

MULTI V™

Outdoor unit line up








MODEL	HP	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
MULTI V™ MINI		 <p>*10, 220V *30, 380V</p>																															
MULTI V™ PLUS II																																	
MULTI V™ SYNC II																																	

* LG Special guide is needed for 50-64HP unit.

MULTI V™

Indoor unit line up



kW		2.2	2.8	3.6	4.5	5.6	7.1	8.2	10.6	12.3	14.1	22.4	28.0
Btu / h		7k	9k	12k	15k	18k	24k	28k	36k	42k	48k	76k	96k
SRAC	Wall Mounted 	[Bar chart showing coverage from 2.2kW to 28.0kW]											
	ART COOL Series	Gallery 	[Bar chart showing coverage from 2.2kW to 12k Btu/h]										
Ceiling Cassette	Mirror 	[Bar chart showing coverage from 2.2kW to 28.0kW]											
	4way Cassette (570*570) 	[Bar chart showing coverage from 2.2kW to 18k Btu/h]											
	4way Cassette (840*840) 	[Bar chart showing coverage from 5.6kW to 42k Btu/h]											
	2way Cassette 	[Bar chart showing coverage from 5.6kW to 24k Btu/h]											
Ceiling Concealed Duct	1way Cassette 	[Bar chart showing coverage from 2.2kW to 15k Btu/h]											
	Low Static 	[Bar chart showing coverage from 2.2kW to 28.0kW]											
	Built-in 	[Bar chart showing coverage from 2.2kW to 28.0kW]											
Ceiling & Floor	High Static 	[Bar chart showing coverage from 2.2kW to 28.0kW]											
		[Bar chart showing coverage from 2.8kW to 12k Btu/h]											
Ceiling Suspended		[Bar chart showing coverage from 5.6kW to 24k Btu/h]											
Floor Standing	With Case 	[Bar chart showing coverage from 2.2kW to 28.0kW]											
	Without Case 	[Bar chart showing coverage from 2.2kW to 28.0kW]											

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

MULTI V™
MINI



MULTI V™
PLUS II



MULTI V™
SYNC II



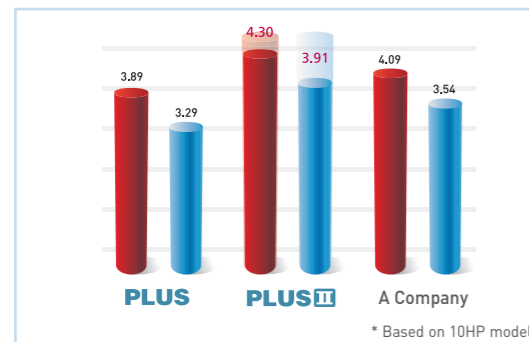
MULTI V™ series

Outdoor unit

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

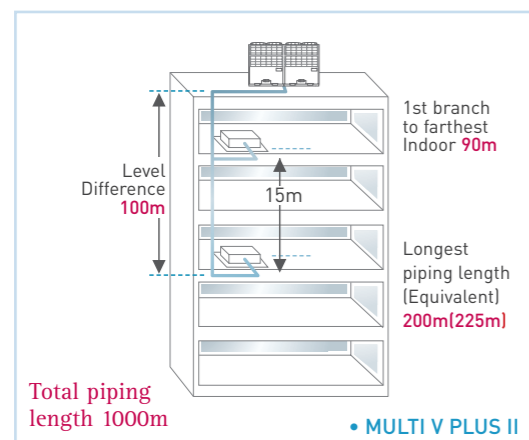
2008 New Features

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



World Highest COP!

- DC Inverter Compressor
- Inverter Combination
- High Efficient DC Inverter Fan
- Wide Louver Heat Exchanger



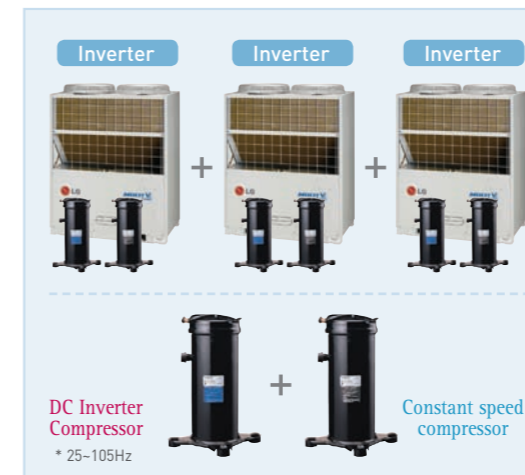
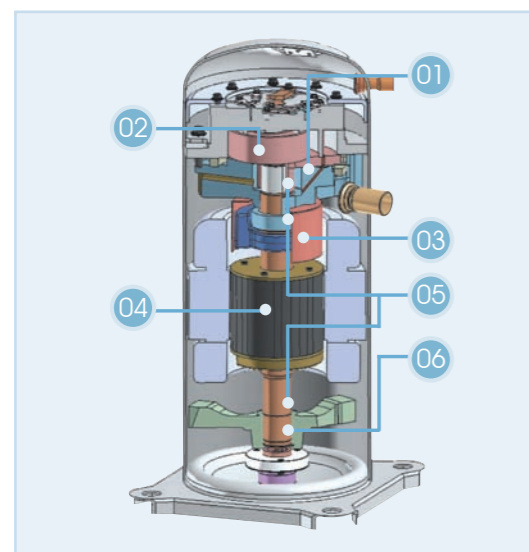
Extended piping length

MULTI V PLUS II		* Using Y branch
Total piping length	1000m	
Longest piping length (Equivalent)	200m(225m)	
Longest piping length after 1st branch	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

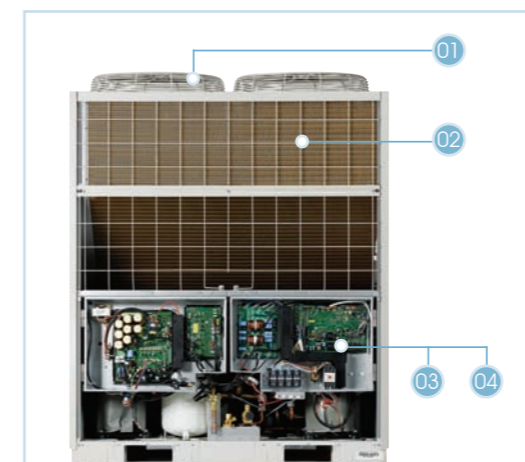
DC Inverter Compressor

- 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



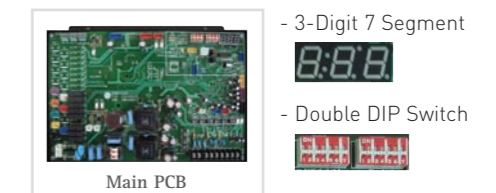
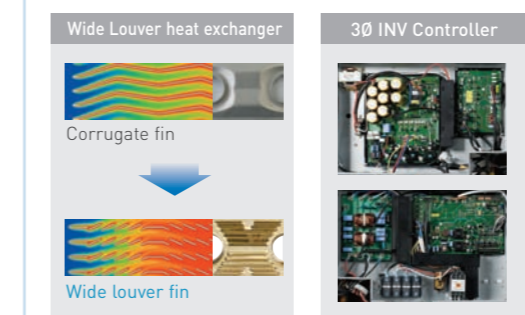
Inverter Combination

- 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 830 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
 - 3-Digit 7 Segment
 - Double DIP Switch



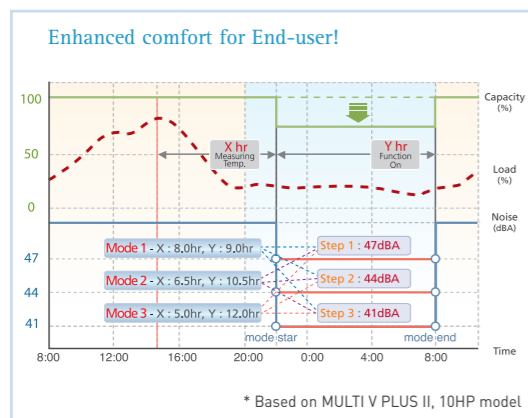
MULTI V™ series

Outdoor unit

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

2008 New Features

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



Night Silent Operation

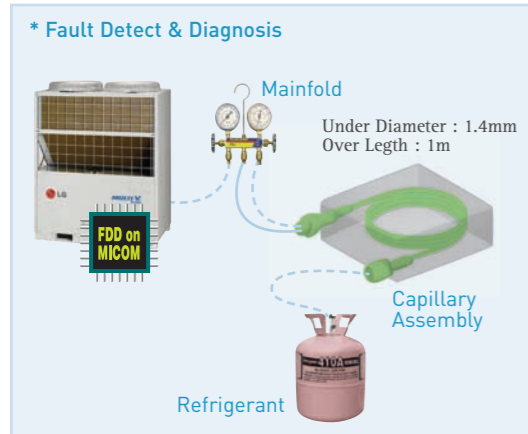
Night silent operation will be on for X hours starting from the peak temperature during daytime, and then after Y hours, it'll be back to normal operation.

- 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.

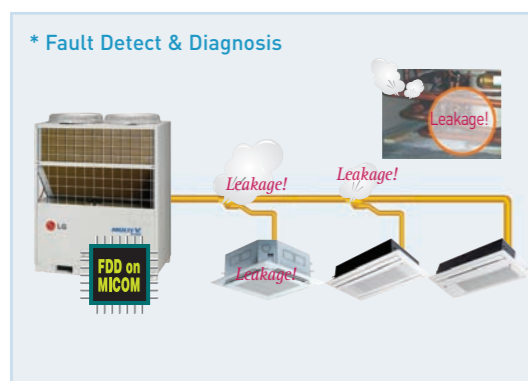
Unit : dBA

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



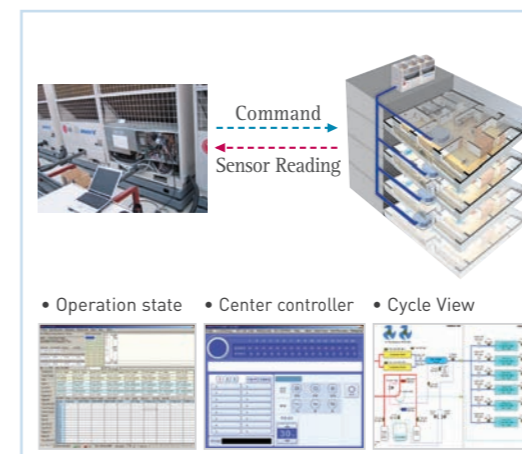
Automatic Refrigerant Charging

- 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)



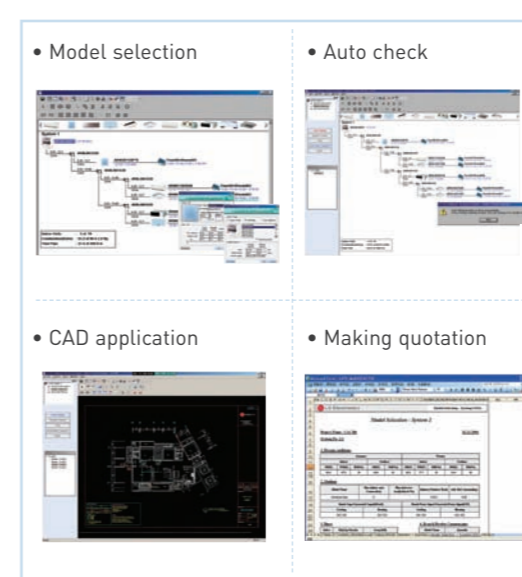
Automatic Refrigerant check-up

- 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)



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.



Enjoy a clean & comfortable life with MULTI V MINI.

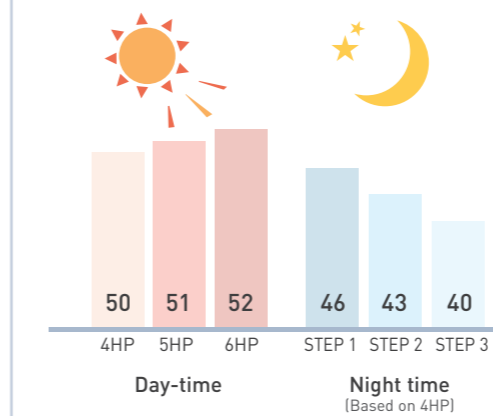


EFFICIENCY

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

- Long pipe 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

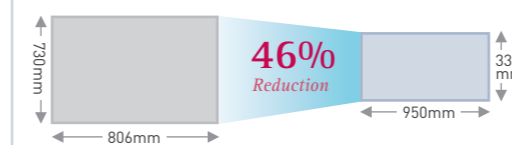
Slim & Compact size

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

Conventional
5, 6 HP

MULTI V
MINI
4, 5, 6 HP

• Foot Print Area



• Volume

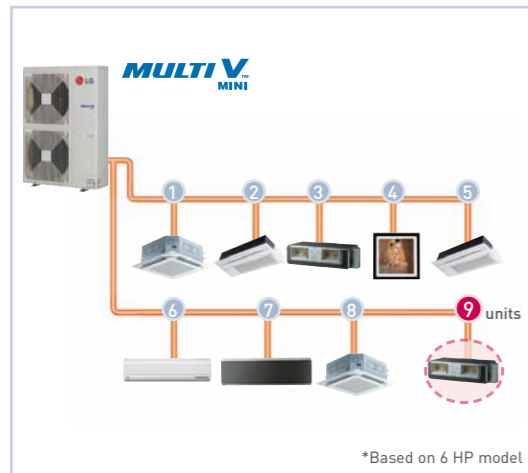


WxHxD : 806x1607x730

WxHxD : 950x1380x330



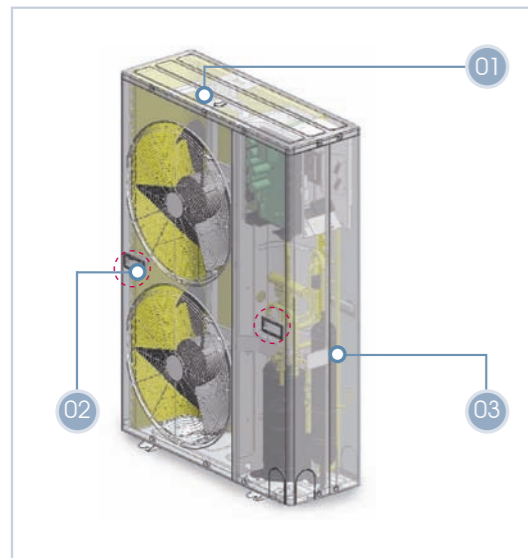
MULTI V MINI can be easily installed in small offices and shops. Designed for low-noise operation, it ensures a pleasant air conditioned environment.



Max. 9 indoor units connectable

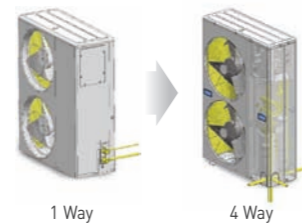
Maximum 9 indoor units can be connected to one single outdoor unit with 130% indoor unit combination.

- 9 indoor units for 6HP (122%)
- 8 indoor units for 5HP (130%)
- 6 indoor units for 4HP (130%)

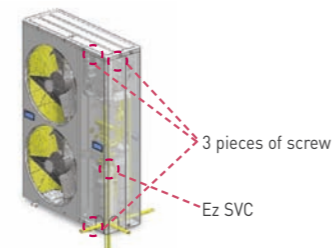


Easy to service

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



- 02 Convenient moving handle
- 03 Compact Design & Ez SVC
- Remove 3 pieces of screw for SVC
 - Front panel removal system



'08 New Feature

- DC Inverter Compressor & Fan motor
- Black box function
- Night silent operation
- Fault Detect & Diagnosis
- Pump down



* Specifications

HP	Model	*10, 220V			*30, 380V		
		4	5	6	4	5	6
	Independent Unit	ARUN40GS2	ARUN50GS2	ARUN60GS2	ARUN40LS2	ARUN50LS2	ARUN60LS2
Capacity	Cooling kW	11.2	14.0	15.5	11.2	14.0	15.5
	Heating kW	12.5	16.0	18.0	12.5	16.0	18.0
Power	Cooling kW	2.9	3.8	4.3	3.0	3.9	4.4
Input	Heating kW	3.1	4.0	4.7	3.2	4.1	4.8
COP	Cooling	3.86	3.68	3.60	3.73	3.59	3.52
	Heating	4.03	4.00	3.83	3.91	3.90	3.75
Power Supply	Ø, V, Hz	1, 220 - 240, 50			3, 380 - 415, 50		
Dimensions(WxHxD)	mm	950 x 1380 x 330	950 x 1380 x 330	950 x 1380 x 330	950 x 1380 x 330	950 x 1380 x 330	950 x 1380 x 330
Weight	kg	122	122	122	122	122	122
Color		Warm Gray			Warm Gray		
Noise level	dBA±3	50	51	52	50	51	52
Fan	Type	BLDC			BLDC		
	Air flow rate [CMM]	110	110	110	110	110	110
Compressor	Type	DC INVERTER			DC INVERTER		
	Number of compressors	1	1	1	1	1	1
Heat Exchanger	Type	Gold Fin			Gold Fin		
Refrigerant	Type	R410A			R410A		
	Charge kg	3.7	3.7	3.7	3.7	3.7	3.7
	Control	EEV			EEV		
Refrigerant	Type	FV50S	FV50S	FV50S	FV50S	FV50S	FV50S
	Charge l	1.7	1.7	1.7	1.7	1.7	1.7
Piping	Liquid Pipes mm(inch)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)	Ø9.52(3/8)
Connections	Gas Pipes mm(inch)	Ø15.88(5/8)	Ø15.88(5/8)	Ø19.05(3/4)	Ø15.88(5/8)	Ø15.88(5/8)	Ø19.05(3/4)
Number of outdoor unit		1	1	1	1	1	1
Number of maximum connectable indoor units		6	8	9	6	8	9
Ratio of the connectable indoor units		50-130%		50-122%	50-130%		50-122%
Longest piping length / Level difference		150m/50m			150m/50m		

* Refer to the note on page 27

MULTI V PLUS II

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.

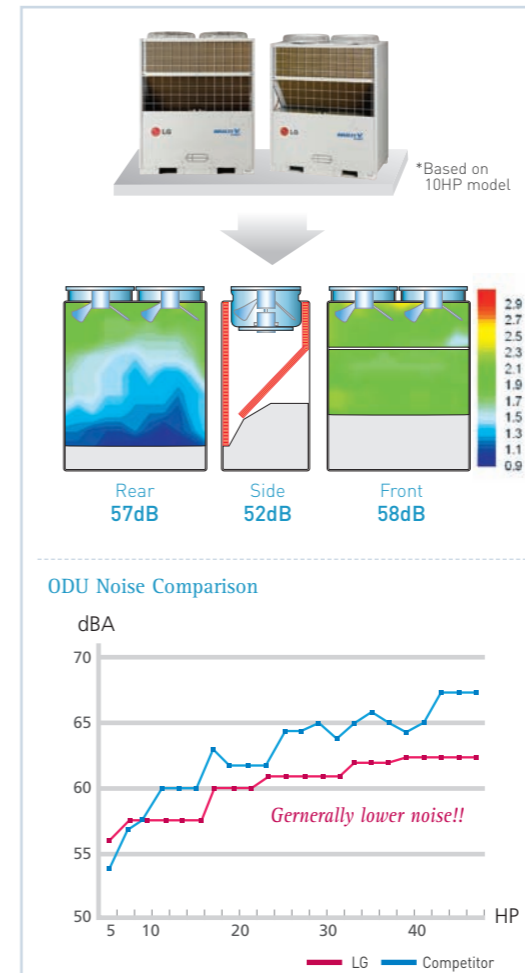


Enjoy a clean & comfortable life with MULTI V.



TECHNOLOGY

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

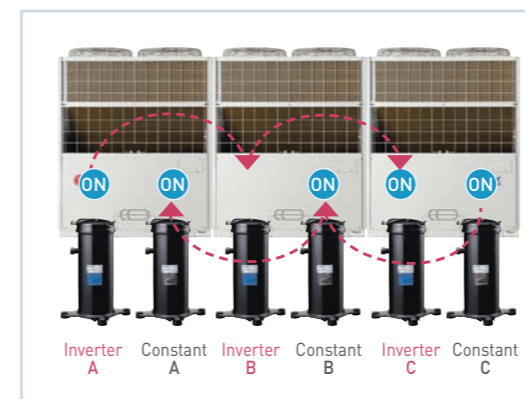


Low Noise

- 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 ↔ Inverter B ↔ Inverter C
 Constant A ↔ Constant B ↔ Constant C
- To meet diverse load in operation

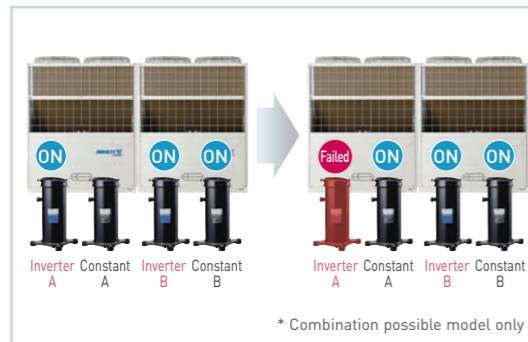




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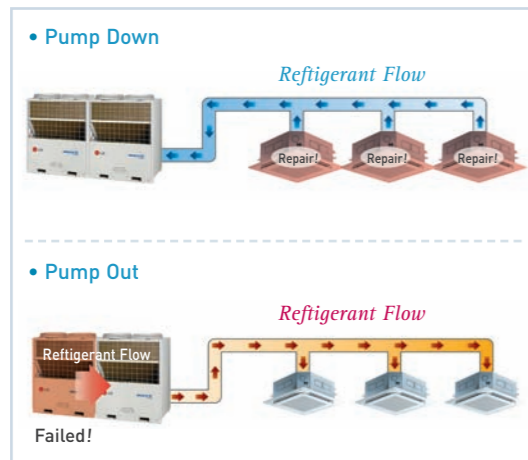
CONVENIENCE

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



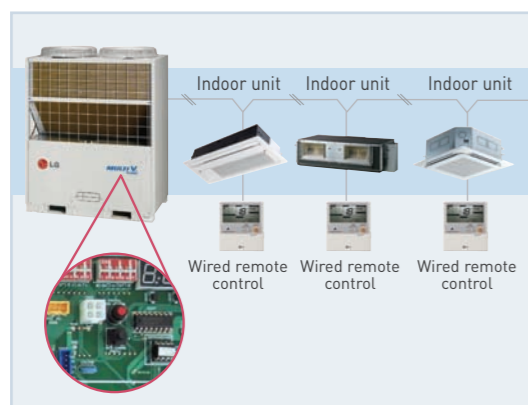
Automatic Back-up

- 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)



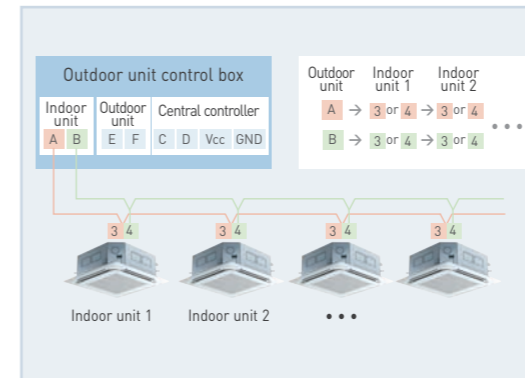
Pump Down & Pump Out

- Pump down
When indoor units need to replace, refrigerants can be collected to the outdoor unit.
- MULTI V MINI / PLUS II / SYNC 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.



Non-polarity transmission connection

Easy installation and no errors for transmission line connections.

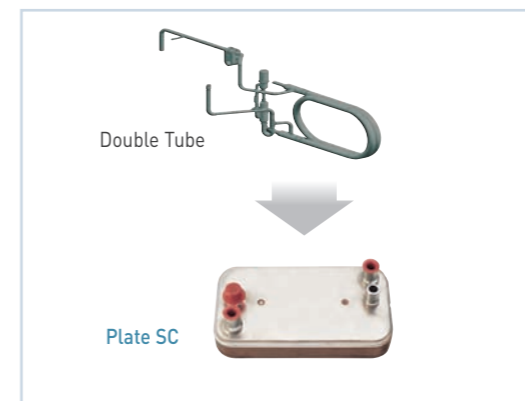
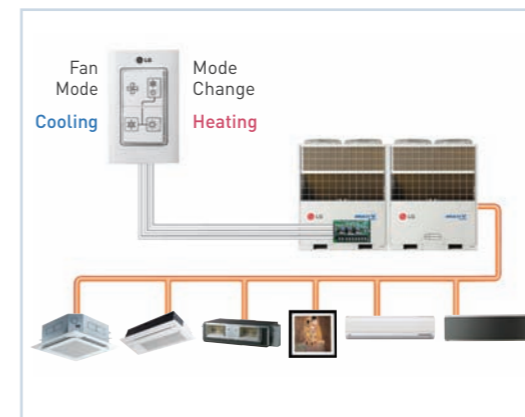


Plate type SC HEX

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



Cool / Heat selector

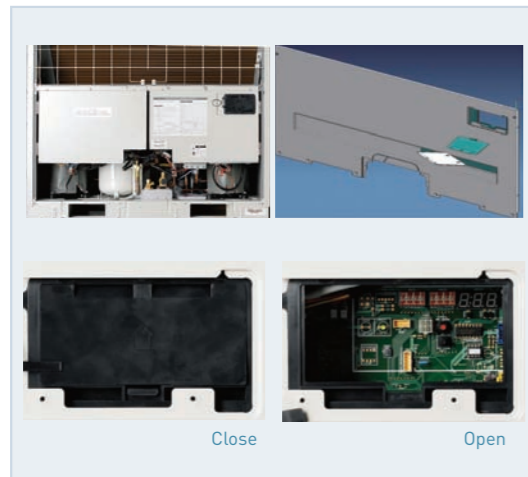
- Simple central control without Network solution
- Select operation mode (Air circulation, Cooling, Heating)
- Mode lock for heating & cooling mixing error-proof during the change of season



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.

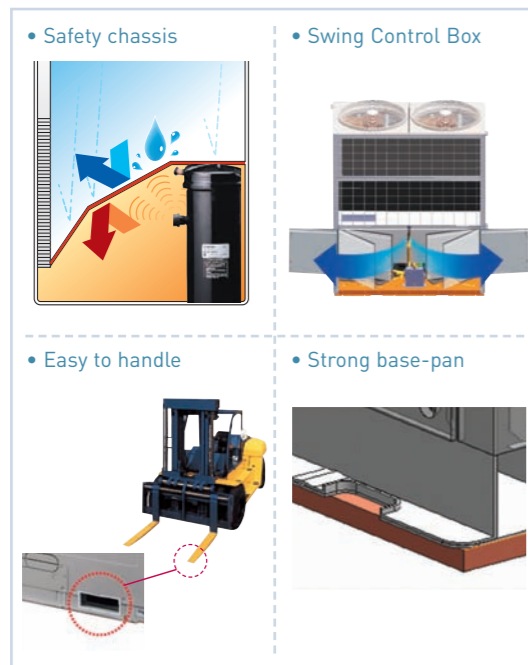
'08 New Feature

- DC Inverter Compressor & Fan motor
- Black box function
- Night silent operation
- Fault Detect & Diagnosis
- Pump down & Pump out



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



* Specifications

HP			5	6	8	10	12	14	16
Model	Combination unit	Independent unit	ARUN50LT2	ARUN60LT2	ARUN80LT2	ARUN100LT2	ARUN120LT2	ARUN140LT2	ARUN160LT2
Capacity	Cooling	kW	14.0	16.0	22.4	28.0	33.6	39.2	44.8
	Heating	kW	15.8	18.0	25.2	31.5	37.8	44.1	50.4
Power	Cooling	kW	3.75	4.25	5.28	7.16	9.08	11.85	14.00
Input	Heating	kW	4.00	4.55	5.73	7.33	9.05	10.60	12.40
COP	Cooling		3.73	3.76	4.24	3.91	3.70	3.31	3.20
	Heating		3.95	3.96	4.40	4.30	4.18	4.16	4.06
Power Supply	Ø, V, Hz		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
Dimensions(WxHxD)	mm		806×1607×730	806×1607×730	1280×1607×730	1280×1607×730	1280×1607×730	1280×1607×730	1280×1607×730
Weight	kg		175	175	240	285	285	285	285
Color			Warm Gray						
Noise level	dBA±3		56	56	58	58	58	58	58
Fan	Type		Propeller Fan [DC INV]						
	Air flow rate	[CMM]	105	105	190	190	190	190	190
Compressor	Type		DC INVERTER						
	Number of compressors		1	1	1	2	2	2	2
Heat Exchanger			Gold fin						
Refrigerant	Type		R410A						
	Charge	kg	4.5	4.5	8	8	8	8	8
	Control		EEV						
Refrigerant	Type		FVC68D(PVE)						
Oil	Charge	l	2.3	2.3	3.3	5.6	5.6	5.6	5.6
Piping	Liquid Pipes	mm(inch)	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)
Connections	Gas Pipes	mm(inch)	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)
Number of outdoor unit			1	1	1	1	1	1	1
Number of maximum connectable indoor units			8(12)	10(12)	13(20)	16(25)	20(30)	23(35)	26(40)
Ratio of the connectable indoor units			50-200%						
Longest piping length / Level difference			200m/100m						

* Refer to the note on page 27



*** Specifications**

HP			18	20	22	24	26	28	30	32
Model	Combination unit		ARUN180LT2	ARUN200LT2	ARUN220LT2	ARUN240LT2	ARUN260LT2	ARUN280LT2	ARUN300LT2	ARUN320LT2
	Independent unit		ARUN120LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2	ARUN140LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2
			ARUN60LT2	ARUN60LT2	ARUN60LT2	ARUN80LT2	ARUN120LT2	ARUN140LT2	ARUN140LT2	ARUN160LT2
Capacity	Cooling	kW	50.4	56.0	61.6	67.2	72.8	78.4	84.0	89.6
	Heating	kW	56.7	63.0	69.3	75.6	81.9	88.2	94.5	100.8
Power	Cooling	kW	13.33	16.10	18.25	19.28	20.93	23.70	25.85	28.00
	Heating	kW	13.6	15.15	16.95	18.13	19.65	21.20	23.00	24.80
COP	Cooling		3.78	3.48	3.38	3.49	3.48	3.31	3.25	3.20
	Heating		4.17	4.16	4.09	4.17	4.16	4.11	4.11	4.06
Power Supply	Ø, V, Hz		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
Dimensions(WxHxD)	mm		(1280x1607x730) +1806x1607x730	(1280x1607x730) +1806x1607x730	(1280x1607x730) +1806x1607x730	(1280x1607x730)×2	(1280x1607x730)×2	(1280x1607x730)×2	(1280x1607x730)×2	(1280x1607x730)×2
Weight	kg		285x175	285x175	285x175	285x240	285x2	285x2	285x2	285x2
Color			Warm Gray							
Noise level	dBA±3		60	60	60	61	61	61	61	61
Fan	Type		Propeller Fan(DC INV)							
	Air flow rate	[CMM]	295	295	295	380	380	380	380	380
Compressor	Type		DC INVERTER							
	Number of compressors		3	3	3	3	4	4	4	4
Heat Exchanger			Gold fin							
Refrigerant	Type		R410A							
	Charge	kg	4.5+8	4.5+8	4.5+8	8+8	8+8	8+8	8+8	8+8
Refrigerant	Type		EEV							
	Control		FVC68D(PVE)							
Oil	Charge	l	5.6+2.3	5.6+2.3	5.6+2.3	5.6+3.3	5.6x2	5.6x2	5.6x2	5.6x2
	Liquid Pipes	mm(inch)	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)
Connections	Gas Pipes	mm(inch)	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)
Number of outdoor unit			2	2	2	2	2	2	2	2
Number of maximum connectable indoor units			29(45)	32(40)	35(44)	39(48)	42(52)	45(56)	49(60)	52(64)
Ratio of the connectable indoor units			50-160%							
Longest piping length / Level difference			200m/100m							

HP			34	36	38	40	42	44	46	48
Model	Combination unit		ARUN340LT2	ARUN360LT2	ARUN380LT2	ARUN400LT2	ARUN420LT2	ARUN440LT2	ARUN460LT2	ARUN480LT2
	Independent unit		ARUN140LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2
			ARUN140LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2	ARUN140LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2
Capacity	Cooling	kW	95.2	100.8	106.4	112.0	117.6	123.2	128.8	134.4
	Heating	kW	107.1	113.4	119.7	126.0	132.3	138.6	144.9	151.2
	Cooling	kW	27.95	30.10	32.25	33.28	35.55	37.70	39.85	42.00
Power	Heating	kW	25.75	27.55	29.35	30.53	31.80	33.60	35.40	37.20
	Cooling		3.41	3.35	3.30	3.37	3.31	3.27	3.23	3.20
COP	Heating		4.16	4.12	4.08	4.13	4.16	4.13	4.09	4.06
	Ø, V, Hz		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
Dimensions(WxHxD)	mm		(1280x1607x730)×2 +1806x1607x730	(1280x1607x730)×2 +1806x1607x730	(1280x1607x730)×2 +1806x1607x730	(1280x1607x730)×3	(1280x1607x730)×3	(1280x1607x730)×3	(1280x1607x730)×3	(1280x1607x730)×3
Weight	kg		285x2+175	285x2+175	285x2+175	285x2+240	285x3	285x3	285x3	285x3
Color			Warm Gray							
Noise level	dBA±3		62	62	62	63	63	63	63	63
Fan	Type		Propeller Fan(DC INV)							
	Air flow rate	[CMM]	485	485	485	570	570	570	570	570
Compressor	Type		DC INVERTER							
	Number of compressors		5	5	5	5	6	6	6	6
Heat Exchanger			Gold fin							
Refrigerant	Type		R410A							
	Charge	kg	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
Refrigerant	Type		EEV							
	Control		FVC68D(PVE)							
Oil	Charge	l	5.6x2+2.3	5.6x2+2.3	5.6x2+2.3	5.6x2+3.3	5.6x3	5.6x3	5.6x3	5.6x3
	Liquid Pipes	mm(inch)	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)
Connections	Gas Pipes	mm(inch)	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)
Number of outdoor unit			3	3	3	3	3	3	3	3
Number of maximum connectable indoor units			55(64)	58(64)	61(64)	64(64)	64(64)	64(64)	64(64)	64(64)
Ratio of the connectable indoor units			50-130%							
Longest piping length / Level difference			200m/100m							

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

*** Specifications**

HP			50	52	54	56	58	60	62	64
Model	Combination unit		ARUN500LT2	ARUN520LT2	ARUN540LT2	ARUN560LT2	ARUN580LT2	ARUN600LT2	ARUN620LT2	ARUN640LT2
	Independent unit		ARUN80LT2	ARUN80LT2	ARUN80LT2	ARUN80LT2	ARUN100LT2	ARUN120LT2	ARUN140LT2	ARUN160LT2
			ARUN140LT2	ARUN140LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2
Capacity	Cooling	kW	140	145.6	151.2	156.8	162.4	168	173.6	179.2
	Heating	kW	157.5	163.8	170.1	176.4	182.7	189	195.3	201.6
	Cooling	kW	41.64	43.71	46.33	48.48	49.96	52.03	54.65	56.8
Power	Heating	kW	38.53	40.23	41.88	43.68	45.25	46.95	48.6	50.4
	Cooling		3.36	3.33	3.26	3.23	3.25	3.23	3.18	3.15
COP	Heating		4.09	4.07	4.06	4.04	4.04	4.03	4.02	4.00
	Ø, V, Hz		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
Dimensions(WxHxD)	mm		(1280x1607x730)×4	(1280x1607x730)×4	(1280x1607x730)×4	(1280x1607x730)×4	(1280x1607x730)×4	(1280x1607x730)×4	(1280x1607x730)×4	(1280x1607x730)×4
Weight	kg		285x3+240	285x3+240	285x3+240	285x3+240	285x4	285x4	285x4	285x4
Color			Warm Gray							
Noise level	dBA±3		64	64	64	64	64	64	64	64
Fan	Type		Propeller Fan(DC INV)							
	Air flow rate	[CMM]	760	760	760	760	760	760	760	760
Compressor	Type		Scroll							
	Number of compressors		7	7	7	7	8	8	8	8
Heat Exchanger			Gold fin							
Refrigerant	Type		R410A							
	Charge	kg	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
Refrigerant	Type		EEV							
	Control		FVC68D(PVE)							
Oil	Charge	l	5.6x2+3.3	5.6x2+3.3	5.6x3+3.3	5.6x3+3.3	5.6x4	5.6x4	5.6x4	5.6x4
	Liquid Pipes	mm(inch)	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)
Connections	Gas Pipes	mm(inch)	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)
Number of outdoor unit			4	4	4	4	4	4	4	4
Number of maximum connectable indoor units			64(64)	64(64)	64(64)	64(64)	64(64)	64(64)	64(64)	64(64)
Ratio of the connectable indoor units			50-130%							
Longest piping length / Level difference			200m/100m							

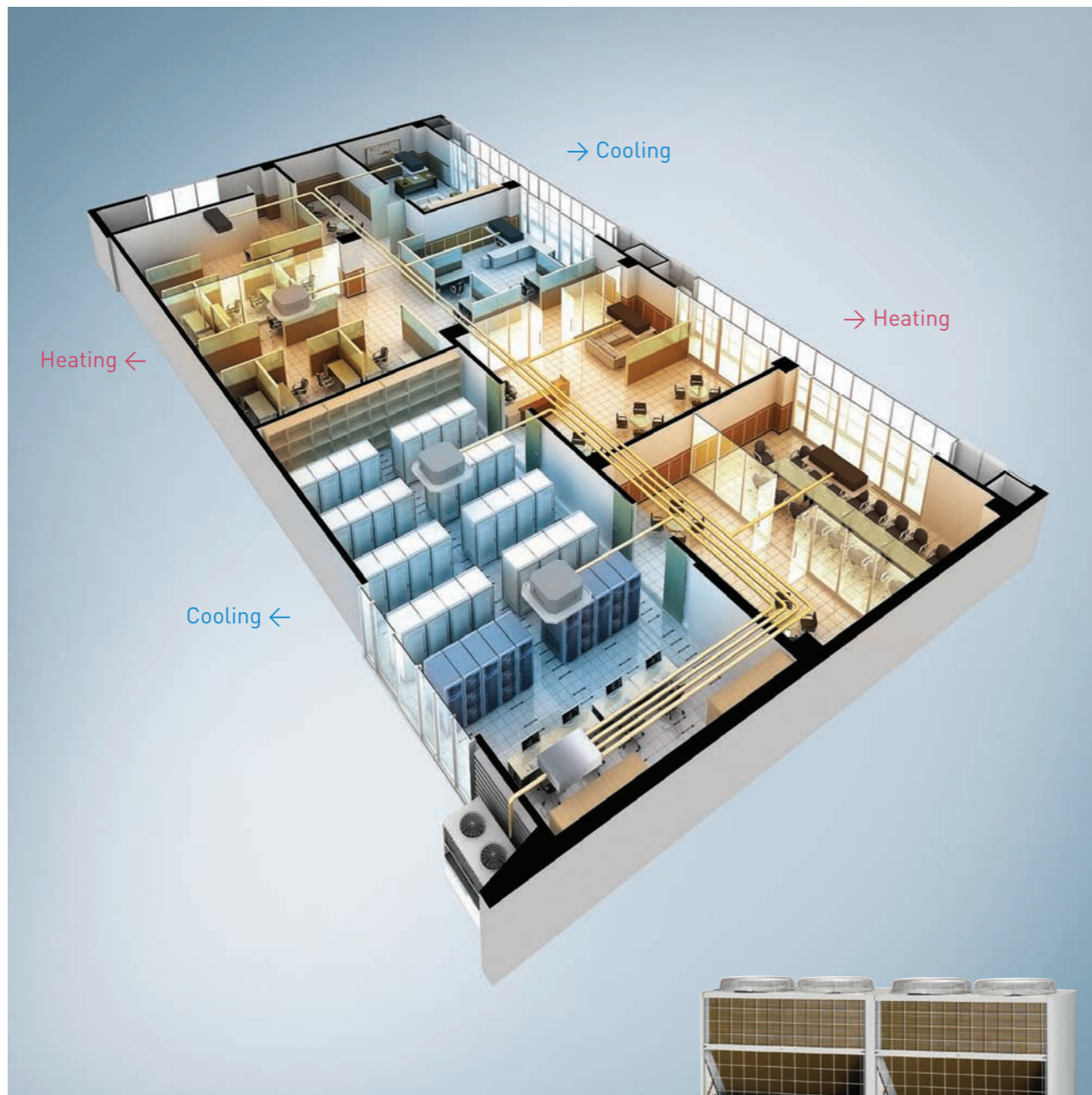
Note :

- Capacities are based on the following conditions
 Cooling-Indoor temp. 27°C(80.6°F)DB / 19°C(66.2°F)WB Heating-Indoor temp. 20°C(68°F)DB / 15°C(59°F)WB
 Outdoor temp. 35°C(95°F)DB / 24°C(75.2°F)WB Outdoor temp. 7°C(44.6°F)DB / 6°C(42.8°F)WB
 Interconnecting Piping Length 7.5m Interconnecting Piping Length 7.5m
 Level Difference of Zero Level Difference of Zero
- Capacities are net capacities
- Due to our policy of innovation some specifications may be changed without notification
- When the calculated refrigerant charge is over 95kg, multiple outdoor system must be divided into smaller independent systems.
 So, each system contains less than 95kg refrigerant charge.





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

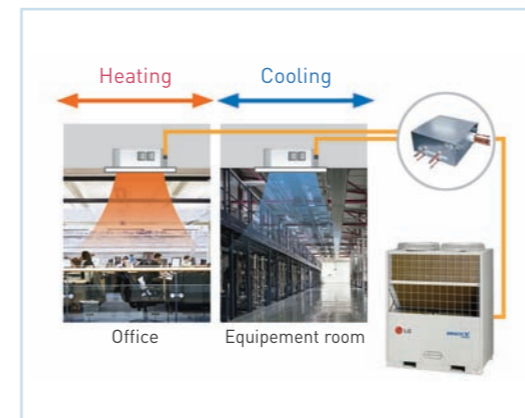


Enjoy a clean & comfortable life with MULTI V.



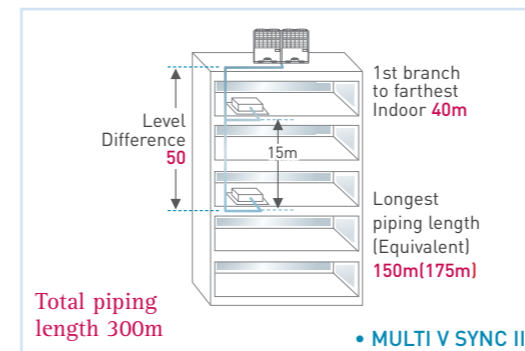
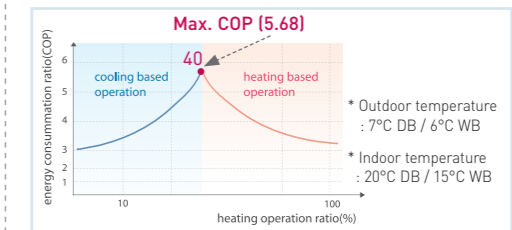
TECHNOLOGY

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 5.68
- When, Cooling(40%) + Heating(60%)
- Energy consumption can be decreased by 30%

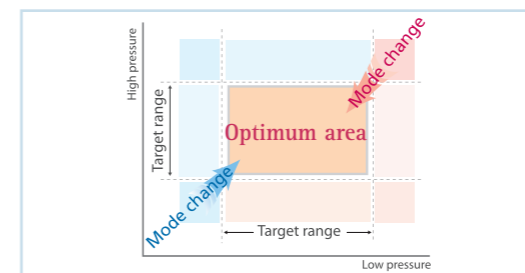


Long piping length

- MULTI V SYNC II

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	10m

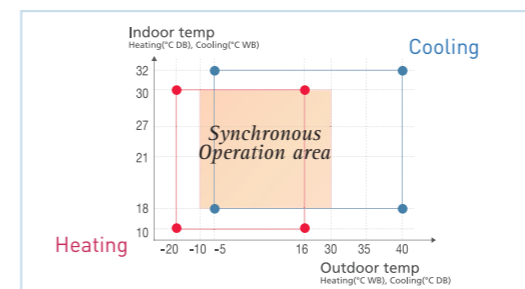
- Refer to the specifications for more information



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

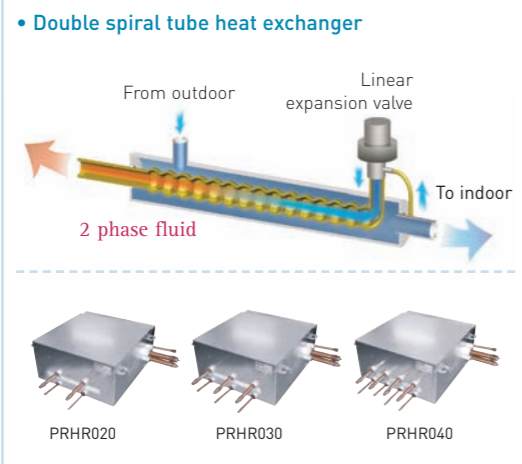
- Wide operation range
- Heating mode : - 20°C WB ~ 16°C WB
- Cooling mode : - 5°C DB ~ 43°C DB
- Synchronous mode : -10°C DB ~ 30°C DB

MULTI V 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.

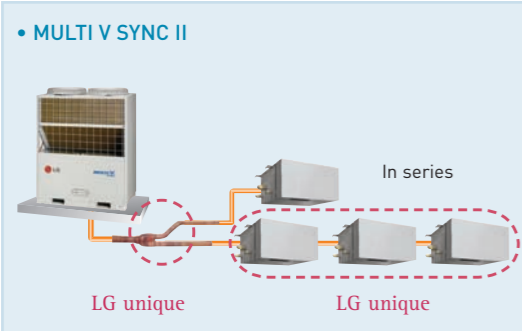
COMFORT

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



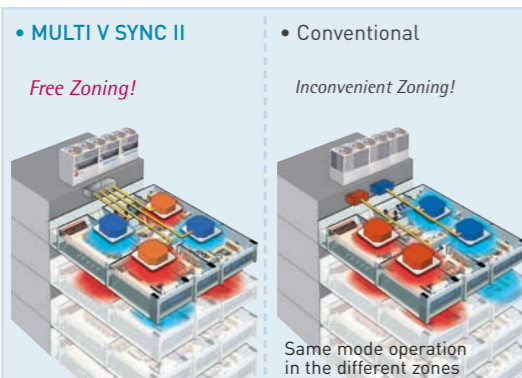
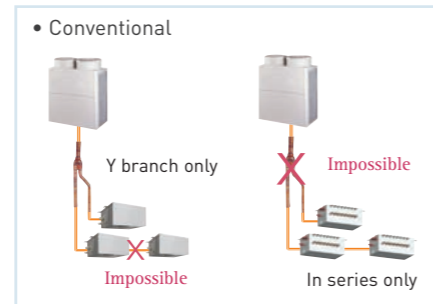
High efficiency heat recovery unit

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



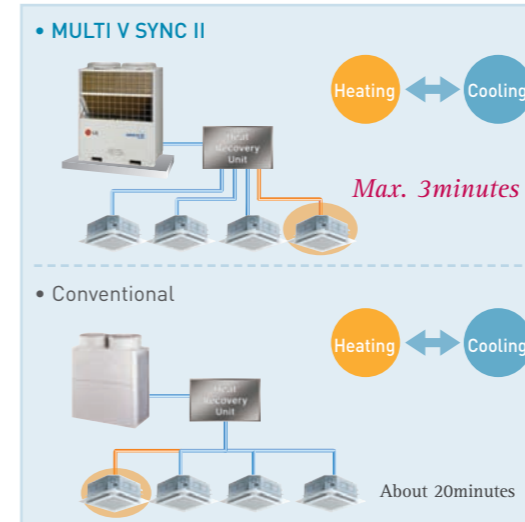
Flexible connection of HR unit

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



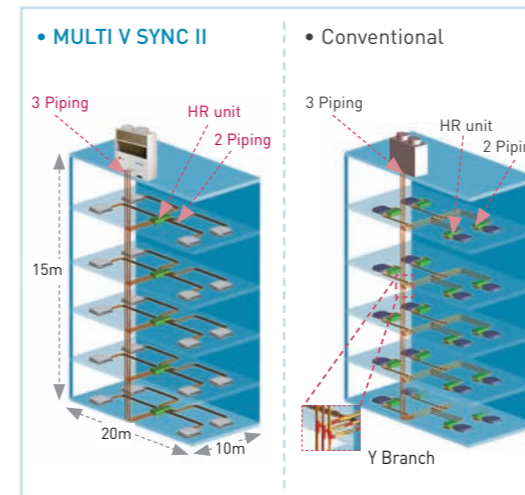
Convenient free zoning

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



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.



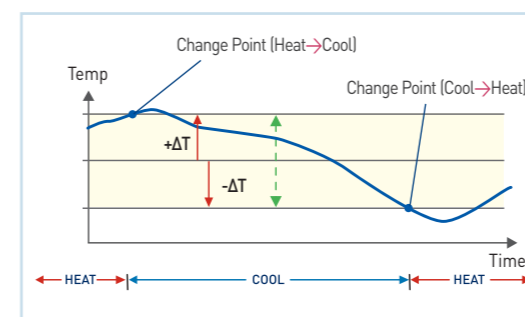
Excellent multiple HR unit

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.



'08 New Feature

- DC Inverter Compressor & Fan motor
- Black box function
- Night silent operation
- Fault Detect & Diagnosis
- Pump down & Pump out



* Specifications

HP			8	10	12	14	16	18	20
Model	Combination unit		ARUB80LT2	ARUB100LT2	ARUB120LT2	ARUB140LT2	ARUB160LT2	ARUB180LT2	ARUB200LT2
	Independent unit								
Capacity	Cooling	kW	22.4	28.0	33.6	39.2	44.8	50.4	56.0
	Heating	kW	25.2	31.5	37.8	44.1	50.4	56.7	63.0
Power	Cooling	kW	5.88	7.36	9.43	12.05	14.20	13.24	15.31
	Heating	kW	5.88	7.45	9.15	10.80	12.60	13.33	15.03
COP	Cooling		3.81	3.80	3.56	3.25	3.15	3.81	3.66
	Heating		4.29	4.23	4.13	4.08	4.00	4.25	4.19
Power Supply	Ø, V, Hz		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
Dimensions(WxHxD)	mm		1280x1607x730	1280x1607x730	1280x1607x730	1280x1607x730	1280x1607x730	(1280x1607x730)x2	(1280x1607x730)x2
Weight	kg		240	285	285	285	285	240+285	240+285
Color			Warm Gray						
Noise level	dBA±3		58	58	58	58	58	61	61
Fan	Type		Propeller Fan(DC INV)						
	Air flow rate	[CMM]	190	190	190	190	190	295	295
Compressor	Type		DC INV Scroll						
	Number of compressors		1	2	2	2	2	3	3
Heat Exchanger			Gold fin						
Refrigerant	Type		R410A						
	Charge	kg	8	8	8	8	8	8+8	8+8
	Control		EEV						
Refrigerant	Type		FVC68D(PVE)						
	Charge	l	3.3	5.6	5.6	5.6	5.6	5.6+3.3	5.6+3.3
Piping	Liquid(flare)	mm(inch)	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)
Connections	Suction Gas	mm(inch)	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)
	Discharge Gas	mm(inch)	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)
Number of outdoor unit			1	1	1	1	1	2	2
Number of maximum connectable indoor units			13(20)	16(25)	20(30)	23(35)	26(40)	29(36)	32(40)
Ratio of the connectable indoor units			50-200%			50-160%			
Longest piping length / Level difference			150m/50m						

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

* Specifications

HP			22	24	26	28	30	32	34							
Model	Combination unit		ARUB220LT2	ARUB240LT2	ARUB260LT2	ARUB280LT2	ARUB300LT2	ARUB320LT2	ARUB340LT2							
	Independent unit									ARUB80LT2	ARUB80LT2	ARUB120LT2	ARUB140LT2	ARUB140LT2	ARUB160LT2	ARUB80LT2
	ARUB140LT2	ARUB160LT2								ARUB140LT2	ARUB140LT2	ARUB160LT2	ARUB160LT2	ARUB160LT2	ARUB120LT2	ARUB140LT2
Capacity	Cooling	kW	61.6	67.2	72.8	78.4	84.0	89.6	95.2							
	Heating	kW	69.3	75.6	81.9	88.2	94.5	100.8	107.1							
Power	Cooling	kW	17.93	20.08	21.48	24.1	26.25	28.4	27.36							
	Heating	kW	16.68	18.48	19.95	21.6	23.40	25.2	25.83							
COP	Cooling		3.44	3.35	3.39	3.25	3.20	3.15	3.48							
	Heating		4.15	4.09	4.11	4.08	4.04	4.00	4.15							
Power Supply	Ø, V, Hz		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							
Dimensions(WxHxD)	mm		(1280x1607x730)x2	(1280x1607x730)x2	(1280x1607x730)x2	(1280x1607x730)x2	(1280x1607x730)x2	(1280x1607x730)x2	(1280x1607x730)x3							
Weight	kg		240+285	240+285	285+285	285+285	285+285	285+285	240+285+285							
Color			Warm Gray													
Noise level	dBA±3		61	61	61	61	61	61	63							
Fan	Type		Propeller Fan(DC INV)													
	Air flow rate	[CMM]	295	295	380	380	380	380	485							
Compressor	Type		DC INV Scroll													
	Number of compressors		3	3	4	4	4	4	5							
Heat Exchanger			Gold fin													
Refrigerant	Type		R410A													
	Charge	kg	8+8	8+8	8+8	8+8	8+8	8+8	8+8+8							
	Control		EEV													
Refrigerant	Type		FVC68D(PVE)													
	Charge	l	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							
Piping	Liquid(flare)	mm(inch)	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)							
Connections	Suction Gas	mm(inch)	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)							
	Discharge Gas	mm(inch)	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)							
Number of outdoor unit			2	2	2	2	2	2	3							
Number of maximum connectable indoor units			35(44)	39(48)	42(52)	45(56)	49(60)	52(64)	55(64)							
Ratio of the connectable indoor units			50-160%						50-130%							
Longest piping length / Level difference			150m/50m													

HP			36	38	40	42	44	46	48							
Model	Combination unit		ARUB360LT2	ARUB380LT2	ARUB400LT2	ARUB420LT2	ARUB440LT2	ARUB460LT2	ARUB480LT2							
	Independent unit									ARUB80LT2	ARUB80LT2	ARUB80LT2	ARUB100LT2	ARUB140LT2	ARUB140LT2	ARUB160LT2
	ARUB140LT2	ARUB160LT2								ARUB160LT2	ARUB160LT2	ARUB140LT2	ARUB160LT2	ARUB160LT2	ARUB160LT2	
Capacity	Cooling	kW	100.8	106.4	112.0	117.6	123.2	128.8	134.4							
	Heating	kW	113.4	119.7	126.0	132.3	138.6	144.9	151.2							
Power	Cooling	kW	29.98	32.13	34.28	35.76	38.3	40.45	42.6							
	Heating	kW	27.48	29.28	31.08	32.65	34.2	36.00	37.8							
COP	Cooling		3.36	3.31	3.27	3.29	3.22	3.18	3.15							
	Heating		4.13	4.09	4.05	4.05	4.05	4.03	4.00							
Power Supply	Ø, V, Hz		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							
Dimensions(WxHxD)	mm		(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x3							
Weight	kg		240+285+285	240+285+285	240+285+285	285+285+285	285+285+285	285+285+285	285+285+285							
Color			Warm Gray													
Noise level	dBA±3		63	63	63	63	63	63	63							
Fan	Type		Propeller Fan(DC INV)													
	Air flow rate	[CMM]	485	485	485	570	570	570	570							
Compressor	Type		DC INV Scroll													
	Number of compressors		5	5	5	6	6	6	6							
Heat Exchanger			Gold fin													
Refrigerant	Type		R410A													
	Charge	kg	8+8+8	8+8+8	8+8+8	8+8+8	8+8+8	8+8+8	8+8+8							
	Control		EEV													
Refrigerant	Type		FVC68D(PVE)													
	Charge	l	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							
Piping	Liquid(flare)	mm(inch)	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)							
Connections	Suction Gas	mm(inch)	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)							
	Discharge Gas	mm(inch)	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)							
Number of outdoor unit			3	3	3	3	3	3	3							
Number of maximum connectable indoor units			58(64)	61(64)	64(64)	64(64)	64(64)	64(64)	64(64)							
Ratio of the connectable indoor units			50-130%													
Longest piping length / Level difference			150m/50m													

* Refer to the note on page 27