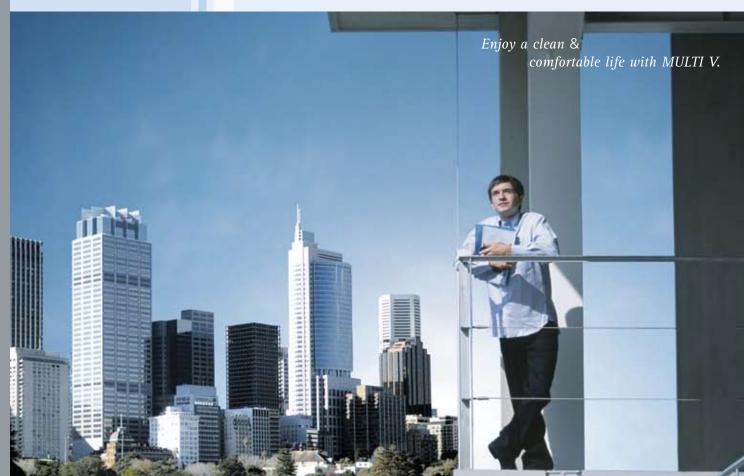


2008







Global Air Conditioning Academies









Changwon in Korea

Pveongtaek in Korea











Spain Italy Dubai China Saudi Arabia















Thailand

nd England

France

Australia

Moscow

Singapore













Mexico Panama Indonesia Iran Turkey Vietnam





Unit

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

56 Ceiling & Floor

57 Ceiling Suspended

58 Floor Standing

Multi V Series

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

ENVIRONMENT





(Heat Recovery Ventilator)

62 **Features** 63

Installation & Maintenance

60

64 66

Line-up **Specifications**



8 70 **Accessory** 72 80

Remote Controller Central Controller Accessory

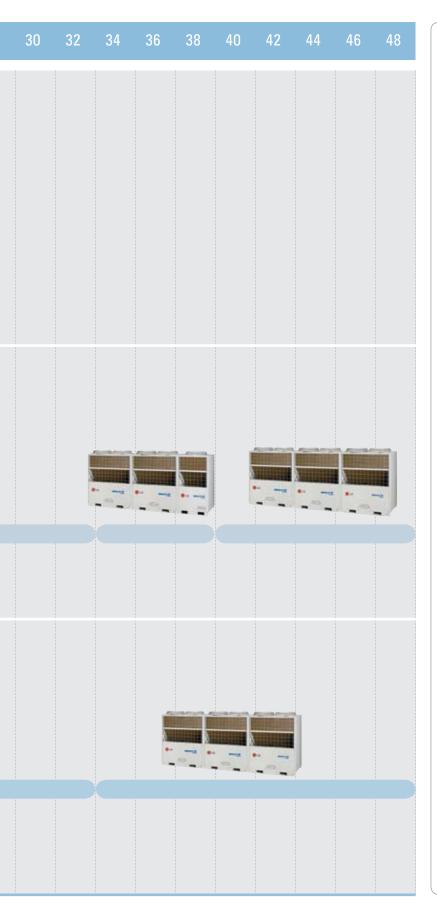
68



Outdoor unit line up

MODEL	HP	4	5	6	8	10	12	14	16	18	20	22	24	26	28
	V _{TM}	*10,	220V *3Ø	, 380V											
MULTI PL	USII														
MULTI SYN	V _{IM}														





LG Air-Conditioning Product Training 2008

LG are offering a range of training courses throughout 2008 at our purpose built training facility in Slough, for details of dates, prices and booking information go to www.mylg.co.uk and click training, the courses include:

Overview of LG air conditioning product range

A 2 hour overview of the full product range, with emphasis on the new products being introduced in 2008. Suitable for people who require a quick introduction to the latest models.

Split and multi split system design and specification (LG RAC and Universal range)

This course includes all non VRF LG air conditioners. It covers the information required to specify LG air conditioners for a particular site. It is intended for sales engineers, consultants and others who are involved in preparing specifications and quotations. It also includes an overview of the control systems available for this range.

VRF system design and specifications

The course is for consultants, sales engineers, and others who need to specify and quote LG VRF systems. It covers all aspects of the design including pipe layout and sizing, electrical layout, and the components required to make up a system.

VRF installation and service

This course covers the installation, commissioning and servicing of LG VRF systems including how they work and fault finding. It is intended mainly for experienced installation engineers. This course is 80 % practical based.

Split and multi split system installation and service (LG RAC and Universal range)

This course covers the installation and service of LG air conditioners, including how they work and fault finding. It is intended mainly for experienced air conditioning engineers. This course is 80% practical based.

Central controls

LG offers a range of central controls to provide control and monitoring of a large number of indoor units from a central location. The course concentrates on the installation and setting up of the AC smart (full control, monitoring and scheduling) and the Simple Central Controller (mainly on/off control). The course is 100% practical based.

As from April 9th, 2007 for CFC's and July 4th, 2007 for HFC's, it will be a compulsory requirement for any person who handles refrigerants or breaks into any refrigeration or air conditioning system, to have a safe handling of refrigerant qualification as an absolute minimum. Lg will be asking all trainees to confirm that they have this qualification before attending any of our installation or service training courses. If they don't have this we will be recommending to them that they should obtain this qualification as a matter of urgency. We reserve the right to refuse training to any engineers without this qualification.



Indoor unit line up

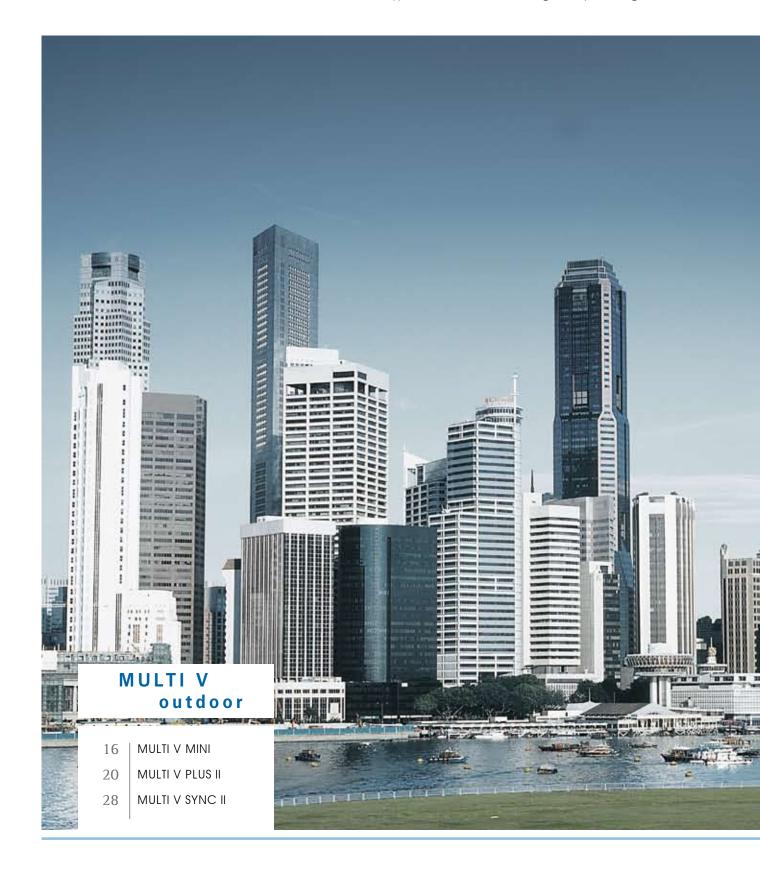
	kW	2.2	2.8	3.6	4.5
	Btu / h	7k	9k	12k	15k
SRAC	Wall Mounted				
ART COOL Series	Mirror				
	4way Cassette (570*570)				
Ceiling	4way Cassette (840*840)				
Cassette	2way Cassette				
	1way Cassette				
	Low Static				
Ceiling Concealed Duct	Built-in				
	High Static				
Ceiling & Floor					
Ceiling Susper	nded				
Floor	With Case				
Standing	Without Case				



5.6	7.1	8.2	10.6	12.3	14.1	22.4	28.0
18k	24k	28k	36k	42k	48k	76k	96k



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.













Pursuing the market needs of high energy efficiency.



15m

Level Difference 100m

Total piping

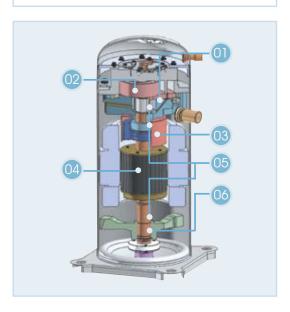
length 1000m

1st branch to farthest Indoor 40m (90m)* piping length (Equivalent) 150m (200m)*

Longest

• MULTI V PLUS II

MULTI V SYNC II



High COP!

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

Extended piping length

 MULTI V PLUS 	Ш
----------------------------------	---

*	Usina	Υ	branch

	oomig i branen
Total piping length	1000m
Longest piping length (Equivalent)	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 installation manual for more information

DC Inverter Compressor

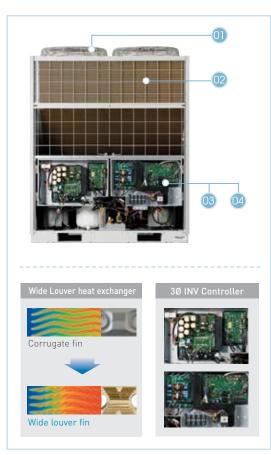
- 01 Optimized Scroll Shape
- 02 Oil injection Mechanism
 - High reliability in low rpm operation
 - High Efficiency in partial-load operation
- 03 Oil Discharge Reduction
 - High reliability in high rpm operation
 - Enhanced Oil Circulation
- DC Inverter Motor
 - High Efficiency Low Noise
- 05 Teflon Coated Bearing
- Migh-performance Oil Pump

2008 New Features

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







*Inverter Combination

(same ODU for Master and Slave)

- 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 \rightarrow 5 models)
- Easy stock & logistics management.
- *Multi V Plus II and Sync II only

Other features

- 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)
- Black Box Function
 - Save the last 3 minutes operating data
 - Precise Analysis & Fast trouble-shooting
- Upgraded Main PCB

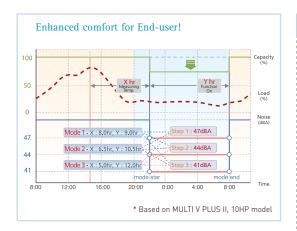


- 3-Digit 7 Segment

- Double DIP Switch



Pursuing the market needs of high energy efficiency.



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 \rightarrow X : 8.0 hours, Y : 9.0 hours

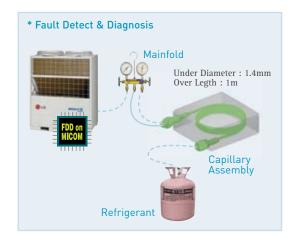
- Mode $2 \rightarrow X : 6.5 \text{ hours}, Y : 10.5 \text{ hours}$

- Mode $3 \rightarrow X : 5.0$ hours, Y : 12.0 hours

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

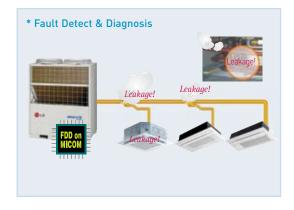
Unit : dBA

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



Automatic Refrigerant Charging - Leak detection

- Refrigerant charging without any scales or quantity calculation
- Guaranteed temperature range : IDU(20~32°C), ODU(0~43°C)
- FDD Function (Fault Detect & Diagnosis)



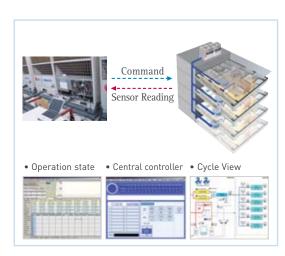
Automatic Refrigerant check-up - Leak detection

- 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)

2008 New Features

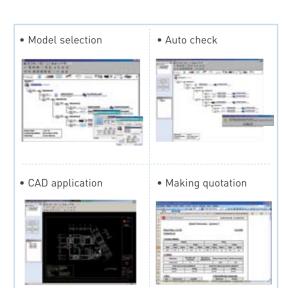
MULTI V MINI / MULTI V PLUS II MULTI V SYNC II





LG MV - Service Software

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



LATS MULTI V - Design Software

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

Download from Sales Supporting System
→ http://www.lgeaircon.com

* Contact our technical department for website pasword



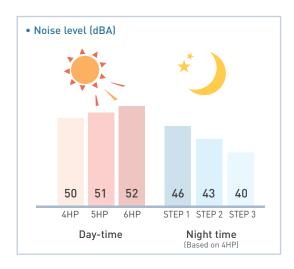
MULTI V MINI can be easily installed in small offices and shops. Designed for low-noise operation, it ensures a pleasant air conditioned environment.

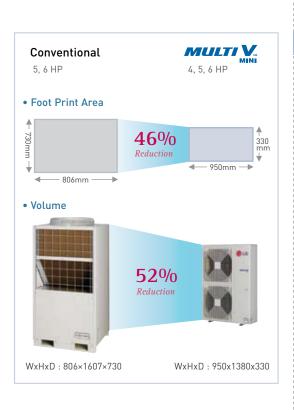


EFFICIENCY

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







Enhanced Comfort

- Night silent operation silent operation
- High COP

	1Ø, 2	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.



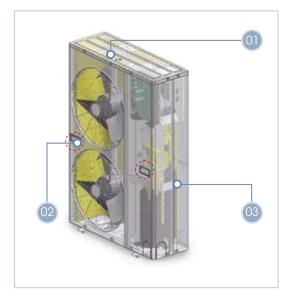
MULTI V MINI can be easily installed in small offices and shops. Designed for low-noise operation, it ensures a pleasant air conditioned environment.



Max. 9 indoor units connectable

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

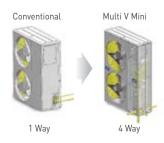
- 9 indoor units for 6HP (130%)
- 8 indoor units for 5HP (130%)
- 6 indoor units for 4HP (130%)



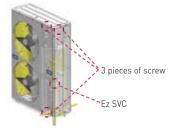
Easy to service

Inner SVC valve

- 4 Way piping is possible (Front, Rear, Right, Down)



- Convenient lifting handle
- Oscillation (1988) Compact Design & Ez SVC
 - Remove 3 screws 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

Model	Independent	Unit
Capacity	Cooling	kW
	Heating	kW
Power	Cooling	kW
Input	Heating	kW
COP	Cooling	
	Heating	
Power Supply		Ø, V, Hz
Dimensions(W	/xHxD)	mm
Weight		kg
Color		
Noise level (he	eating)	dBA±3
Fan	Туре	
	Air flow rate	[CMM]
Compressor	Туре	
	Number of co	ompressors
Heat Exchange	er	
Refrigerant	Туре	
	Charge	kg
	Control	
Refrigerant	Туре	
Oil	Charge	l
Piping	Liquid Pipes	mm(inch)
Connections	Gas Pipes	mm(inch)
Number of our	tdoor unit	
Number of max	imum connecta	ble indoor units
	nnectable indo	
Longest piping	g length / Leve	l difference

*1Ø, 220V

10, 2200		
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 (52)	51 (53)	52 (54)
	BLDC	
110	110	110
	DC INVERTER	r
1	1	1
	Gold Fin	
	R410A	
3.7	3.7	3.7
	EEV	
FV50S	FV50S	FV50S
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
50~1	130%	50~130%
	150m/50m	

*3Ø, 380V

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
106	106	106
	Warm Gray	
50 (52)	51 (53)	52 (54)
	BLDC	
110	110	110
	DC INVERTER	
1	1	1
	Gold Fin	
	R410A	
3.7	3.7	3.7
	EEV	
FV50S	FV50S	FV50S
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)
11	11	1
6	8	9
50~1		50~130%
	150m/50m	

^{*} Refer to the note on page 27



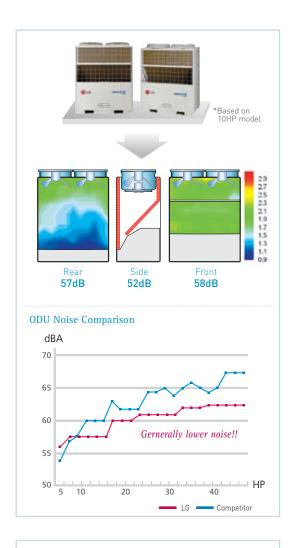
MULTI V Inverter system offers one of the world's largest capacity units, essential for high-rise buildings. We are proud to say the system will ensure the highest level of customer satisfaction.



TECHNOLOGY

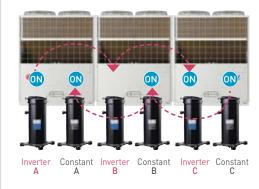
Your life will be upgraded through the state-of-the-art technology of MULTI V PLUS II.





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



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.



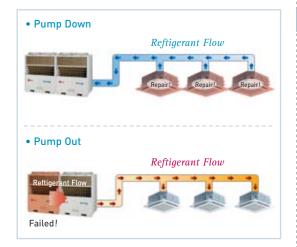
Automatic Back-up

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



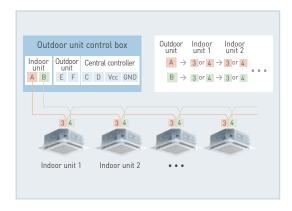
Auto Initialisation

Initialising outdoor units and indoor units is 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.

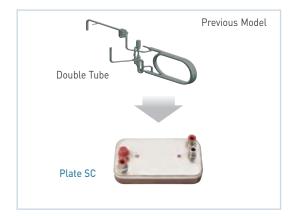


Plate type SC HEX

- Increased Sub-cooling by highperformance 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

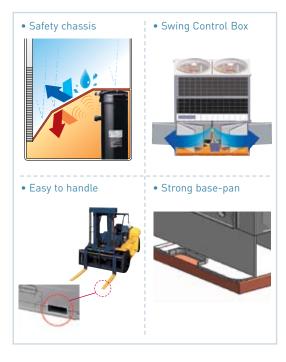


MULTI V Inverter system offers one of the world's largest capacity units, essential for high-rise buildings. We are proud to say the system will ensure the highest level of customer satisfaction.



Separate Front Panel

- Easy access to Main PCB (DIP switch)
- Convenient during service and start-up
- Benefits for Technician, Installer



Other features

- Internal components protected from the elements, reduces the chances of damage caused by corrosion, dust and other external factors
- Convenient maintenance due to swing door type control box
- Easy to handle through fork lift slot
- Strong base-pan support

'08 New Feature

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









* Specifications

HP			5				12				
Model Number			ARUN50LT2	ARUN60LT2	ARUN80LT2	ARUN100LT2	ARUN120LT2	ARUN140LT2	ARUN160LT2		
			ARUN50LT2	ARUN60LT2	ARUN80LT2	ARUN100LT2	ARUN120LT2	ARUN140LT2	ARUN160LT2		
Uses combinat	ion of	-									
		Į.									
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		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		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	Туре		Propeller Fan (DC INV)								
	Air flow rate	[CMM]	105	105	190	190	190	190	190		
Compressor	Туре		DC INVERTER								
	Number of compressors		1	1	1	2	2	2	2		
Heat Exchange	er		Gold fin								
Refrigerant	Туре		R410A								
	Charge	kg	4.5	4.5	8	8	8	8	8		
	Control		EEV								
Refrigerant	Туре		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 out	tdoor unit		1	1	1	1	1	1	1		
Number of ma:	ximum connect	able indoor units	8	9	13	16	19	23	26		
Ratio of the co	nnectable indo	or units	50~130%								
Longest piping length / Level difference		200m/100m									

^{*} Refer to the note on page 27



* Specifications

НР		
Model Numbe	er	
Uses combinat	tion of	
Capacity	Cooling	kW
	Heating	kW
Power	Cooling	kW
Input	Heating	kW
COP	Cooling Heating	
Power Supply		Ø, V, Hz
Dimensions(V	VxHxD)	mm
Weight		kg
Color		
Noise level		dBA±3
Fan	Type Air flow rate	[CMM]
Compressor	Type Number of c	ompressors
Heat Exchang	er	
Refrigerant	Туре	
	Charge	kg
	Control	
Refrigerant	Туре	
Oil	Charge	l
Piping	Liquid Pipes	mm(inch)
Connections	Gas Pipes	mm(inch)
Number of ou	tdoor unit	
Number of ma	ximum connect	able indoor units
	nnectable indo	
Longest pipin	g length / Leve	l difference

	18	20	22	24	26	28	30	32	
	ARUN180LT2	ARUN200LT2	ARUN220LT2	ARUN240LT2	ARUN260LT2	ARUN280LT2	ARUN300LT2	ARUN320LT2	
r						ARUN140LT2			
ł	ARUN60LT2	ARUN60LT2	ARUN60LT2			ARUN140LT2			
ι									
	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	
	13.6	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]	(1280×1607×730)	(1280×1607×730)	[1280×1607×730]×2	(1280×1607×730)×2	[1280×1607×730]×2	[1280×1607×730]×2	(1280×1607×730)×2	
	+(806×1607×730)	+(806×1607×730)	+(806×1607×730)						
	285+175	285+175 285+175 285+175			285x2	285x2	285x2	285x2	
				Warm	Gray				
	60	60	60	61	61	61	61	61	
				Propeller F	an(DC INV)				
	295	295	295	380	380	380	380	380	
				DC INV	ERTER				
	3	3	3	3	4	4	4	4	
				Gold	d fin				
				R41	10A				
	4.5+8	4.5+8	4.5+8	8+8	8+8	8+8	8+8	8+8	
				E					
			,	FVC68		·		·r	
	5.6+2.3	5.6+2.3	5.6+2.3	5.6+3.3	5.6x2	5.6x2	5.6x2	5.6x2	
	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	32	35	39	42	45	49	52	
					30%				
				200m,	/100m				

HP		
Model Number	er	
Uses combina	ation of	
Capacity	Cooling	kW
	Heating	kW
Power	Cooling	kW
Input	Heating	kW
COP	Cooling Heating	
Power Supply		Ø, V, Hz
Dimensions(V	VxHxD)	mm
Weight		kg
Color		
Noise level		dBA±3
Fan	Type Air flow rate	[CMM]
Compressor	Туре	
	Number of co	ompressors
Heat Exchang	er	
Refrigerant	Туре	
	Charge Control	kg
Refrigerant	Туре	
Oil	Charge	l
Piping	Liquid Pipes	mm(inch)
Connections	Gas Pipes	mm(inch)
Number of ou	tdoor unit	
Number of ma	ximum connect	able indoor units
Ratio of the co	onnectable indo	oor units
Longest pipin	g length / Leve	l difference

	34	36	38	40	42	44	46	48
	ARUN340LT2	ARUN360LT2	ARUN380LT2	ARUN400LT2	ARUN420LT2	ARUN440LT2	ARUN460LT2	ARUN480LT2
٢	ARUN140LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2	ARUN160LT2
₹	ARUN140LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2	ARUN140LT2	ARUN140LT2	ARUN160LT2	ARUN160LT2
ι	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	[1280×1607×730]×2	[1280×1607×730]×2	(1280×1607×730)×3	(1280×1607×730)×3	(1280×1607×730)×3	(1280×1607×730)×3	(1280×1607×730)×3
	+(806×1607×730)	+(806×1607×730)	+(806×1607×730)					
	285x2+175	285x2+175	285x2+175	285x2+240	285×3	285×3	285×3	285×3
				Warm	n Gray			
	62	62	62	63	63	63	63	63
				Propeller F	an(DC INV)			
	485	485	485	570	570	570	570	570
				DC INV	ERTER			
	5	5	5	5	6	6	6	6
				Gol	d fin			
				R4	10A			
	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
				El	ΕV			
				FVC68	D(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)							
	Ø34.9(1 3/8)	Ø41.3(1 5/8)						
	3	3	3	3	3	3	3	3
	55	58	61	64	64	64	64	64
				50~1	30%			
				200m,	/100m			

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

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

- 2. Capacities are net capacities
- ${\it 3. \ Due\ to\ our\ policy\ of\ innovation\ some\ specifications\ may\ be\ changed\ without\ notification}}$
- 4. 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.

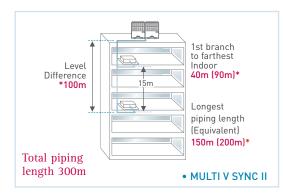


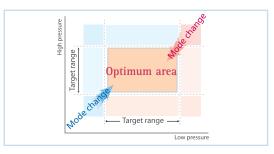
TECHNOLOGY

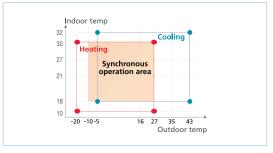
Your life will be upgraded through the state-of-the-art technology of MULTI V SYNC II.





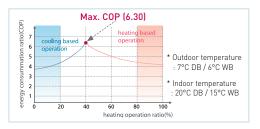






Heating & Cooling Synchronous operation

- High COP up to 6.30
- 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 (Equivalent)	150m (200m)*
Longest piping length after 1st branch	40m (90)*
Level difference Between ODU~IDU	100m*
Level difference Between IDU~IDU	15m
Level difference Between ODU~ODU	10m

* Refer to the installation manual 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

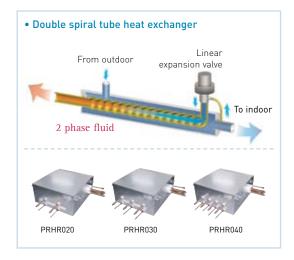
Wide operation range

Wide operation range

- Heating mode : 20°CDB ~ 27°CDB
- Cooling mode : 5°CDB ~ 43°CDB
- Synchronous mode : $-10^{\circ}CDB \sim 27^{\circ}CDB$

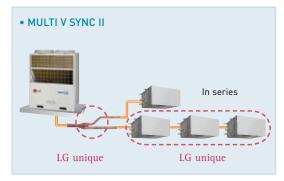


Simultaneous heating and cooling with one outdoor unit, MULTI V SYNC II. Your environment is ensured of optimum conditions regardless of season or space.



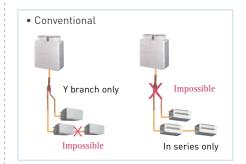
High efficiency heat recovery unit

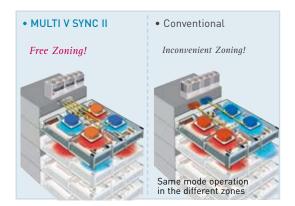
- High efficient double spiral tube type SCI circuit
- Maximum 4 indoor units connectable per one HR unit
- Easy Installation with auto piping detect function



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.

COMFORT

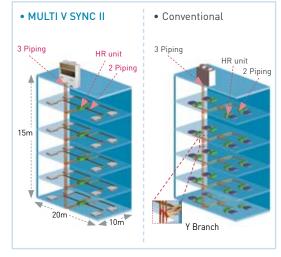
MULTI V SYNC II ensures the comfort of all users with flexible design and easy installation.





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.



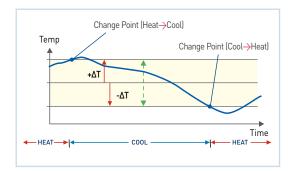
Excellent multiple HR unit

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 lenght	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 Number				ARUB80LT2	ARUB100LT2	ARUB120LT2	ARUB140LT2	ARUB160LT2		ARUB200LT2		
			ſ	ARUB80LT2	ARUB100LT2	ARUB120LT2	ARUB140LT2	ARUB160LT2	ARUB80LT2	ARUB80LT2		
Uses combina	ition of		K						ARUB100LT2	ARUB120LT2		
			ļ									
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		5.24	7.16	9.08	11.85	14.0	12.44	14.36		
Input	Heating	kW		5.73	7.33	9.05	10.60	12.40	13.06	14.78		
COP	Cooling			4.24	3.91	3.70	3.31	3.20	4.05	3.90		
	Heating			4.40	4.30	4.18	4.16	4.06	4.34	4.26		
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(V	VxHxD)	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	Туре			Propeller Fan(DC INV)								
	Air flow rate	[CMM]		190	190	190	190	190	295	295		
Compressor	Type						DC INV Scroll					
	Number of co	ompressors		1	2	2	2	2	3	3		
Heat Exchang	er			Gold fin								
Refrigerant	Туре			R410A								
	Charge	kg		8	8	8	8	8	8+8	8+8		
	Control						EEV					
Refrigerant	Туре			FVC68D[PVE]								
Oil	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 ou	tdoor unit			1	1	1	1	1	2	2		
Number of ma	ximum connect	able indoor units		13	16	19	23	26	29	32		
Ratio of the co	nnectable indo	or units				50~130%			50~1	30%		
Longest pipin	g length / Leve	l difference		150m/50m								

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

* Specifications

			22		26	28		32		
Model Number			ARUB220LT2 ARUB80LT2	ARUB240LT2 ARUB80LT2	ARUB260LT2 ARUB120LT2	ARUB280LT2 ARUB140LT2	ARUB300LT2 ARUB140LT2	ARUB320LT2 ARUB160LT2	ARUB340LT2 ARUB80LT2	
Uses combina	ation of		ARUB140L12	ARUB160LT2	ARUB140LT2	ARUB140LT2	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	17.13	19.28	20.93	23.7	25.85	28.0	26.21	
Input	Heating	kW	16.33	18.13	19.65	21.2	23.0	24.8	25.38	
COP	Cooling		3.60	3.49	3.48	3.31	3.25	3.20	3.63	
	Heating		4.24	4.17	4.17	4.16	4.11	4.06	4.22	
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(V	VxHxD)	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	Туре			Propeller Fan(DC INV)						
	Air flow rate	[CMM]	295	295	380	380	380	380	485	
Compressor	Туре					DC INV Scroll				
	Number of c	ompressors	3	3	4	4	4	4	5	
Heat Exchang	jer					Gold fin				
Refrigerant	Туре					R410A				
	Charge	kg	8+8	8+8	8+8	8+8	8+8	8+8	8+8+8	
	Control					EEV				
Refrigerant	Туре					FVC68D(PVE)				
Oil	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 ou	ıtdoor unit		2	2	2	2	2	2	3	
Number of ma	ximum connect	able indoor units	35	39	42	45	49	52	55	
Ratio of the co	onnectable indo	or units		50~130%						
Longest piping length / Level difference			150m/50m							

HP			36	38	40	42	44	46	48		
Model Numbe	ar		ARUB360LT2	ARUB380LT2	ARUB400LT2	ARUB420LT2	ARUB440LT2	ARUB460LT2	ARUB480LT2		
Model Mailibe	-I		r ARUB80LT2	ARUB80LT2	ARUB80LT2	ARUB100LT2	ARUB140LT2		ARUB160LT2		
Uses combina	ation of		ARUB140LT2	ARUB140LT2	ARUB160LT2		ARUB140LT2	ARUB160LT2	ARUB160LT2		
OSES COMBINE			ARUB140LT2	ARUB160LT2	ARUB160LT2	ARUB160LT2	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	28.98	31.13	33.28	35.16	37.7	39.85	42.0		
Input	Heating	kW	26.93	28.73	30.53	32.13	33.6	35.40	37.2		
COP	Cooling		3.48	3.42	3.37	3.34	3.27	3.23	3.20		
	Heating		4.21	4.17	4.13	4.12	4.13	4.09	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(V	VxHxD)	mm	(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x3	(1280x1607x730)x		
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	Туре		Propeller Fan(DC INV)								
	Air flow rate	[CMM]	485	485	485	570	570	570	570		
Compressor	Туре		DC INV Scroll								
	Number of co	ompressors	5	5	5	6	6	6	6		
Heat Exchang	jer		Gold fin								
Refrigerant	Туре					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)					
Oil	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)						
Number of ou	ıtdoor unit		3	3	3	3	3	3	3		
Number of ma	ximum connecta	able indoor units	58	61	64	64	64	64	64		
Ratio of the co	onnectable indo	oor units	50-130%								
Longest pipin	g length / Leve	l difference		150m/50m							

 $^{^{}st}$ Refer to the note on page 27