

Multi Split

LG Multi Split system is an advanced air conditioning system of superior quality that has the ability to operate at different temperatures and fan speeds in individual rooms. The multi split system can be made up of large indoor units for living areas and small indoor units for bedrooms, all operated from the one common outdoor unit.



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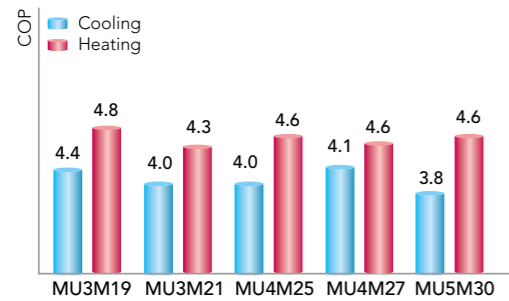
Multi Split

High Efficiency Multi

1 High COP & Energy Saving

Top Class Energy Efficiency

In 2010, LG Inv. Multi New Model has Top class Energy Efficiency Model using LG BLDC Compressor, BLDC motor, high efficiency heat exchanger.



Using LG Inverter AC is same as planting 138 big cone pines.



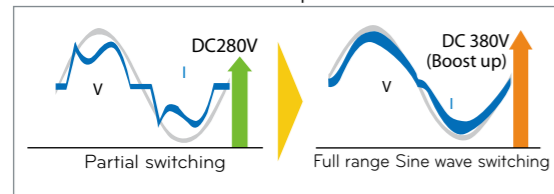
- 1) KFRI(Korea Forest Research Institute) calculated based on annual power save. (Assumption : Using AC 4hr/day, 365days)
- 2) Energy saving 37% was compared with LG Non-inverter model

DC Inverter Technology

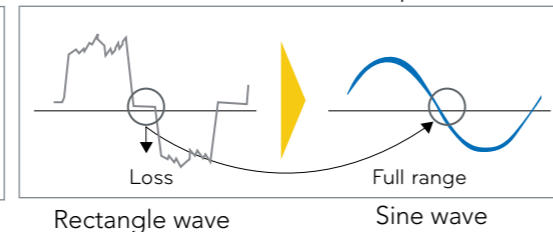
With the advancement of inverter technology comes more silent, economical and powerful air conditioning systems. The LG air conditioner is manufactured using the PFC and the sine wave technology.

Step-up Inverter by the PFC & the Sine Wave Control Technology (PFC : Power Factor Correction)compared to conventional.

• PFC Control in Power Input



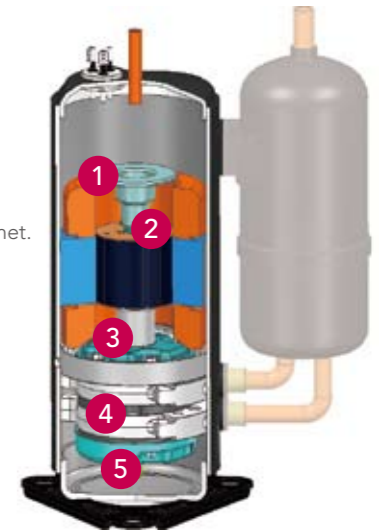
• Sine wave Control in BLDC Compressor



Powerful BLDC Compressor

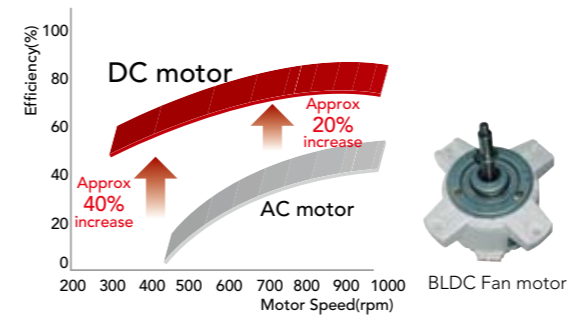
The LG inverter air conditioner comes with a BLDC compressor that uses a strong neodymium magnet. Its compressor thus has improved efficiency compared with AC inverter.

- 1 Minimized Oil circulation
- 2 High Efficiency Motor
- 3 Optimize Compression Eff.
- 4 Optimize Vibration, Noise
- 5 High Reliability



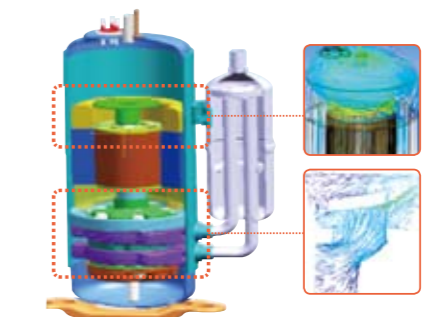
BLDC Fan Technology

BLDC Fan motor offers additional energy saving in operating mode. Compared with AC motors, BLDC Fan motor can cut energy by 35% at full velocity.



Prevent Oil Discharge at High Hz !

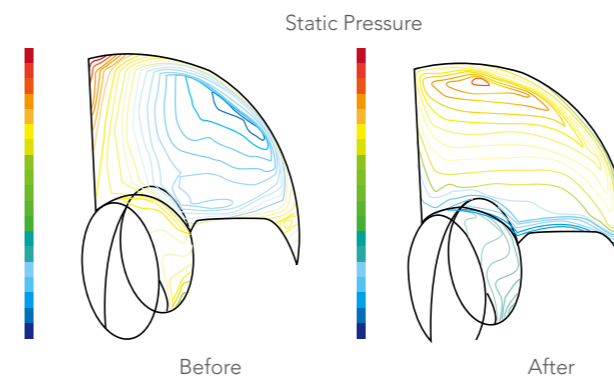
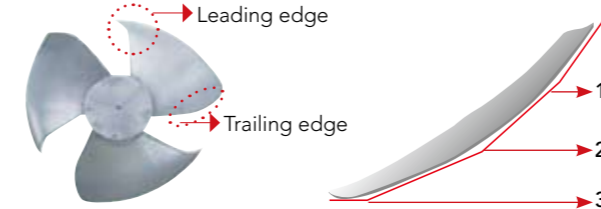
For keeping Oil level in high Hz , Improved Oil circulation system So. LG inv. Multi can have high reliability system



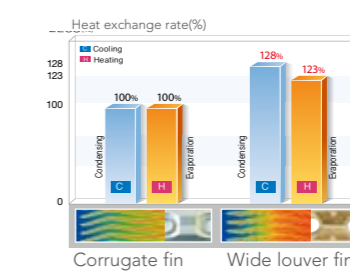
Adopt Oil Separate & Optimize Oil Path

Axial Fan

3 Step Axial fan shape can be available of high-efficient & low noise

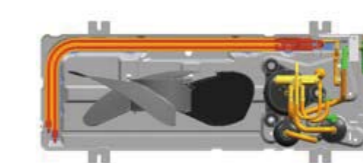


Wide Louver tech



- Improved heat exchange rate by max 28%
- Anti-corrosion treatment (Gold fin)

More Heat exchanger



Height : 6% ↑
Length : 8% ↑
Energy Efficiency ↑

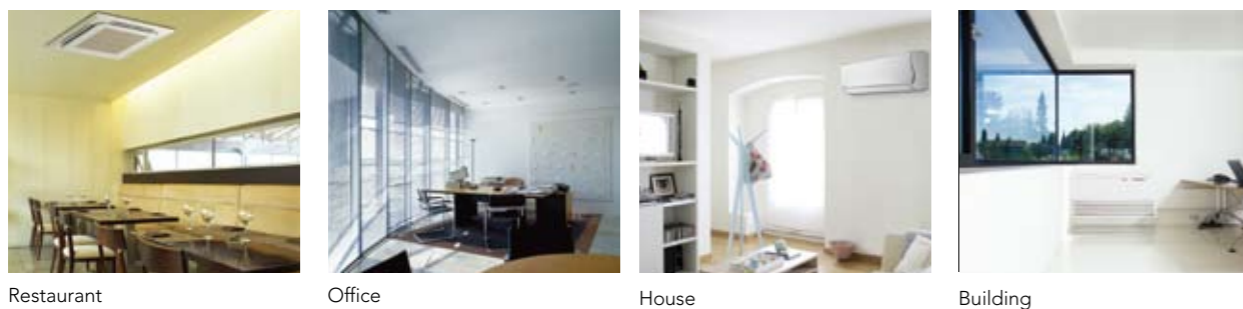
Multi Split

2 Comfort Application

The Variety of Various Combination



For Reference Sites



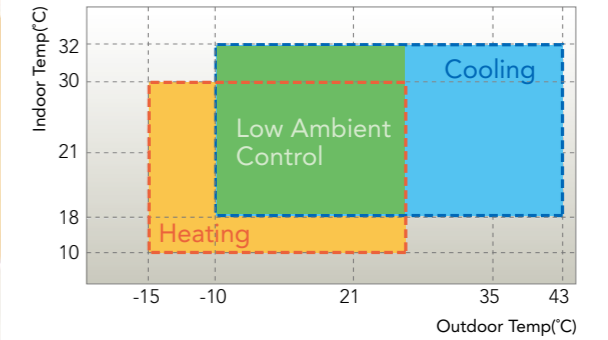
Available from 1.5kW

According to construction regulation, house wall is becoming thicker & to strengthen insulation, LG can provide right solution to small space.

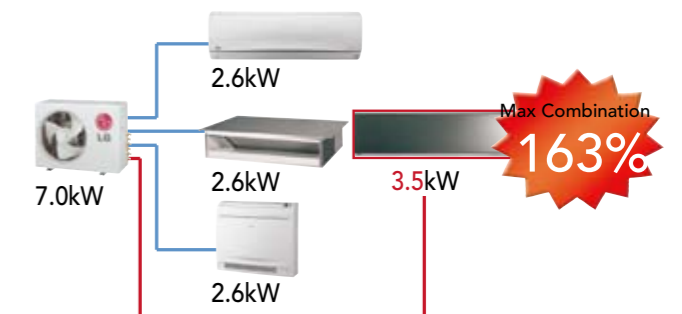
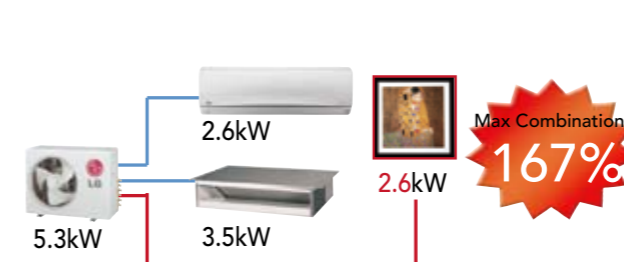
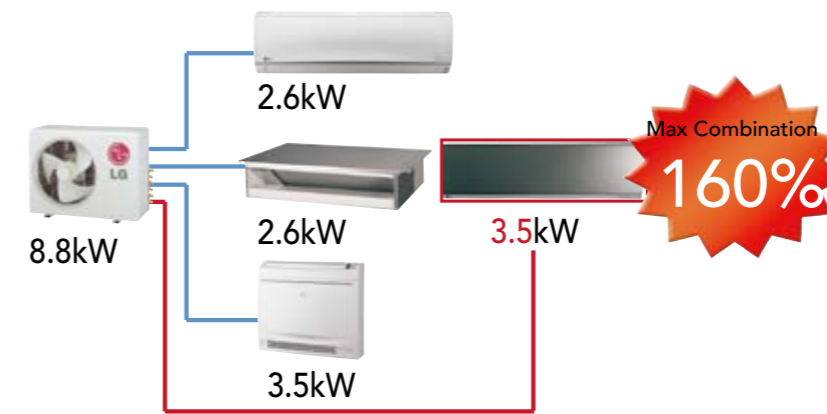


Wide Operating Range

When cooling computer rooms and other rooms in the event of low outdoor temperature, the BLDC inverter compressor and outdoor BLDC fan motor are used to adjust the air flow and volume, with a view to ensuring efficient operation by allowing the air conditioner to keep operating at -10°C without turning it off.



Indoor Capacity Combination



Multi Split

Long & High Elevation Piping

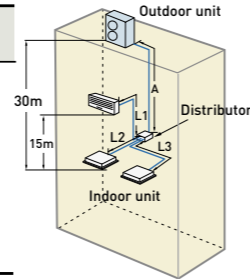
The FM56AH supports a piping length of up to 145m and high elevation of up to 30m for more flexibility in installation

*Multi Piping Type

Piping Length (m)	15/17k	19k/21k	25k/27k	30k	40k
Total	30	50	70	75	85
Max / Room	20	25	25	25	25
Allowable Elevation (Indoor-Outdoor)	15	15	15	15	15
(Indoor-Indoor)	7.5	7.5	7.5	7.5	7.5

*Distributor Box Type

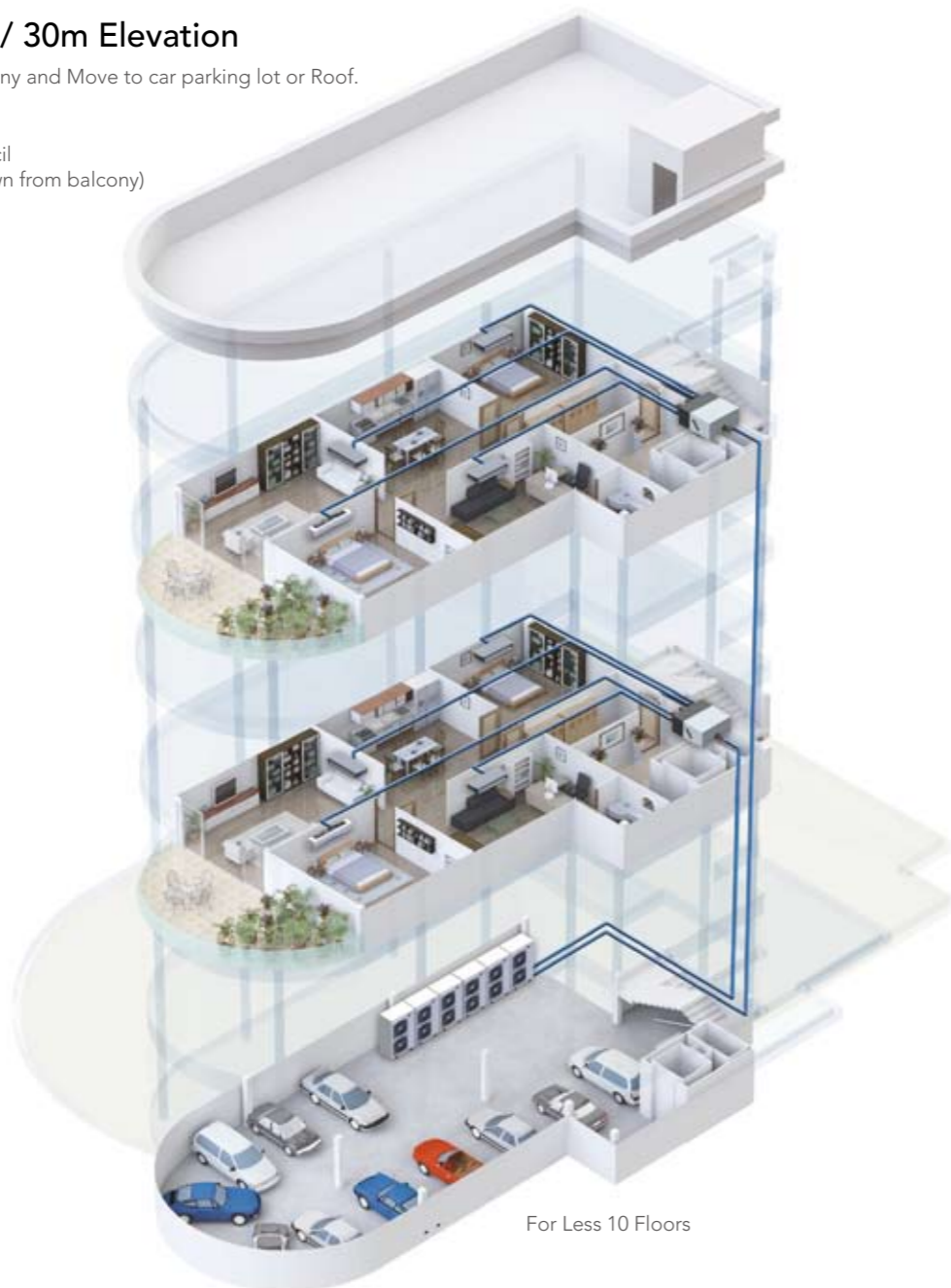
Piping Length(m)	40k	48k	56k
Total Pipe (A+L1+L2+L3)	100	135	145
Main Pipe(A)	50	55	55
Total Branch Pipe (L1+L2+L3)	50	80	90
Each Branch Pipe	15	15	15
Allowable Elevation (Indoor-Outdoor (B))	30	30	30
(Indoor-Indoor (C))	15	15	15



Max 145m pipe run / 30m Elevation

Remove outdoor unit From Balcony and Move to car parking lot or Roof.

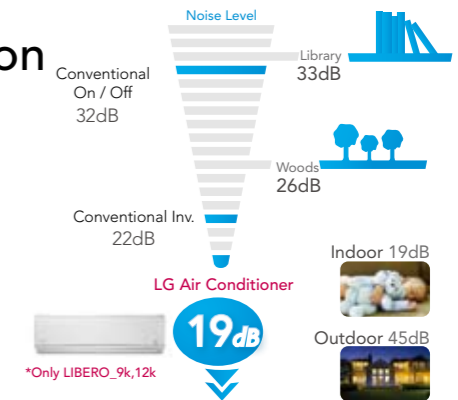
- Beauty care center
- Easy to get approval from council
- Avoid safety issue (Baby fall down from balcony)



3 Comfort Operation & Ez installation

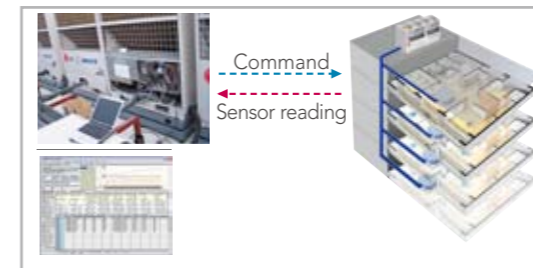
Improved Low Noise

The Inverter technology, the BLDC Motor technology, and LG's unique new Skew Fan technology have achieved the world's lowest noise level of 19dB. Thus, the Sleep mode will allow pleasant sleeping.

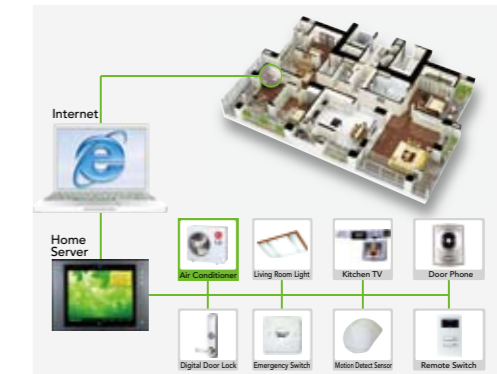


LG MV

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



Available to link with home network



*LG does not supply home network. Only available to link.

Smart phone Solution for Operation monitoring & Trouble shooting

Smart phone connection

When faults have occurred, you can see the Error code during the check of indoor and outdoor units, select the Error code, and find solutions to each problem through Q&A. It is like the trouble shooting guide book embedded in the smart phone.

Operation Monitoring

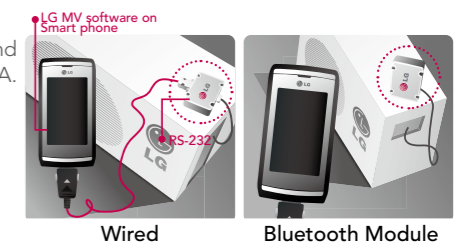


- Select communication method and language
- Check the installation status
- Compressor operation status
- Check the indoor unit status
- Operational status in line with the frequency

Troubleshooting on Smart phone



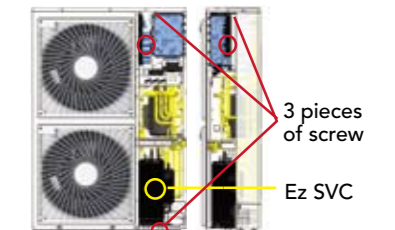
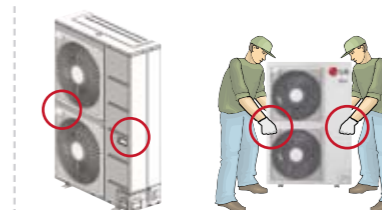
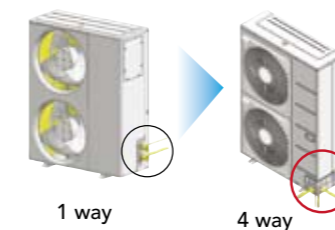
1. Select Error Code
2. Easy Process
3. Service Action



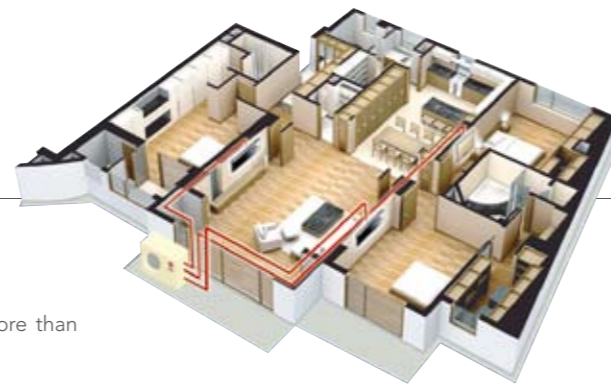
Easy to Service

Easy & efficient installation of outdoor unit will provide the best solution for small offices and shops.

- 1. Inner SVC valve**
- 4 Way piping is possible (Front, Rear, Right, Down)
- Excellent exterior
- 2. Convenient moving handle**
- Fitted hand grips for easy transportation and installation
- 3. Compact Design & Ez SVC**
- Remove 3 pieces of screw for SVC
- Front panel removal system



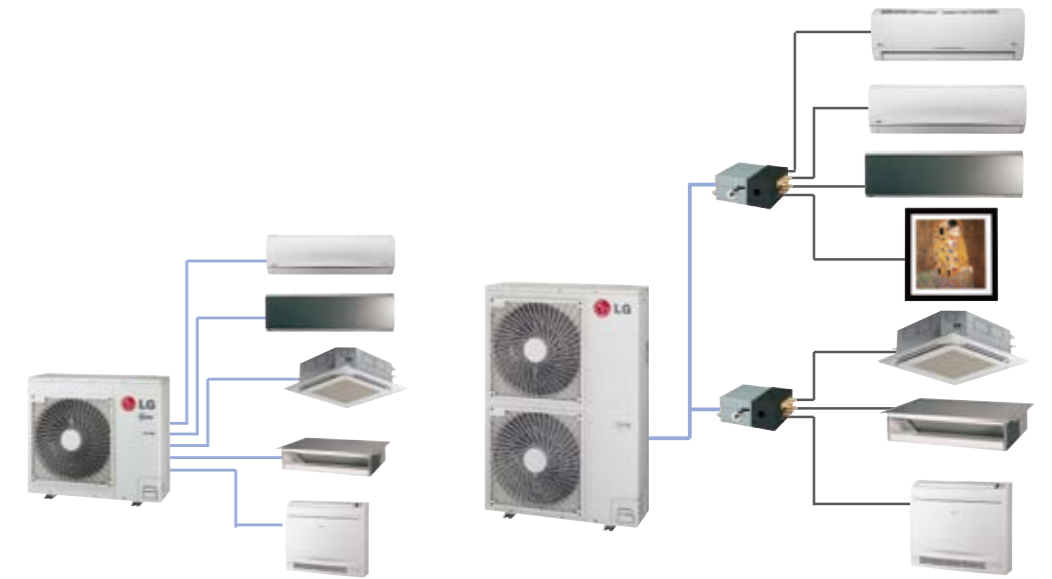
Multi Split



Wide Range

LG Multi systems provide various indoor units and outdoor units up to 16.4kW. More than 2,000 types of combinations are available using 15 outdoor units and 48 indoor units

Type	Multi Piping				DB Box Type			
	Category	Category	Category	Category	Category	Category	Category	Category
Model	MU2M15 UL0 MU2M17 UL0	MU3M19 UE0 MU3M21 UE0 MU4M25 UE0	MU4M27 U40 MU5M30 U40	MU5M40 UH0	FM40AH UH5	FM48AH U33 FM56AH U33	FM37AH UE0	FM41AH U33 FM49AH U33 FM57AH U33
Capacity KW(C/H)	4.1/4.7 4.7/5.3	5.3/6.3 6.2/7.0 7.0/8.4	7.9/9.1 8.8/10.1	11.7/13.5	11.7/13.5	15.5/16.4 16.7/17.9	9.7/11.1	13.5/14.1 15.5/16.4 16.7/17.9
Max. Indoor units	2 2	3 3 4	4 5	5	7	8 9	6	7 8 9
Phase	1ø	1ø	1ø	1ø	1ø	1ø	3ø	3ø



Free Combination with Various Indoor Types

Product	Wall Mounted Type						Ceiling Cassette Type		Ceiling Concealed Duct Type		Console	Ceiling & Floor Type
	Wall Mounted	<i>LIBERO</i>	<i>HERO</i>	ART COOL Mirror	ART COOL Gallery	ART COOL Panel	1-way	4-way	Slim Duct	High		
Capacity Range (kBtu/kW)												
5/1.5	MS05AH N40		CS05AF NH0					MT06AH NR0				
7/2.1	MS07AH N40	CS07AQ NB0	CS07AF NH0	CC07AW* NE3				MT08AH NR0				
9/2.6	MS09AH N40	CS09AQ NB0	CS09AF NH0	CC09AW* NE3	MA09AH1 NF1	MA09AH* NF1	MT09AH NC1	MT10AH NR0	MB09AHL N12		CQ09 NAO	MV09AH NE0
12/3.5	MS12AH N40	CS12AQ NB0	CS12AF NH0	CC12AW* NE3	MA12AH1 NF1	MA12AH* NF1	MT11AH NC1	MT12AH NR0	MB12AHL N12		CQ12 NAO	MV12AH NE0
18/5.3	MS18AH N50	CS18AQ NC0		CC18AW* N83				MT18AH NQ0	MB18AHL N22		CQ18 NAO	MV18AH NB0
24/7.0	MS24AH N50	CS24AQ NC0		CC24AW* N83				MT24AH NP0	MB24AHL N22			MV24AH NB0

ART COOL Note : * indicates color of panel
 *Blue(B) *Mirror(R) *Silver(V) *Red(E) *Gold(G) *White Silver(H) *Gallery(1)

Multi Split _ Ceiling & Floor Type

Console Type

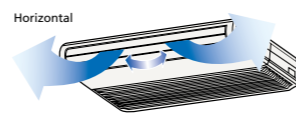
Flexible Installation

The Perfect Choice to Free up maximum Wall or Floor Space
 •Two-way installation
 The rounded design of the floor/ceiling-suspended dual type unit allows either ceiling or floor-level installation. Ceiling installation frees up wall and floor space, while floor-level installation helps prevent the loss of warm air.

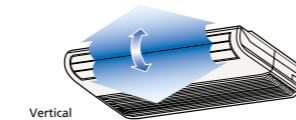


Airflow Direction Control

Horizontal Airflow Direction Control.
 Adjust the horizontal airflow direction by manually moving the horizontal airflow direction louver by hand.

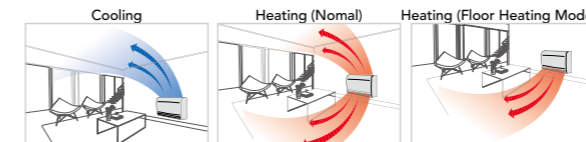


Vertical Airflow Direction Control
 The airflow direction can be adjusted as desired by using the remote controller.



Comfort Air Flow

•Different air flow of cooling & heating
 For cooling, the vane is adjusted upwards to let the cold air travel up. As for heating, the vane sends the heated air downwards to balance room temperature specially for floor.



•Quick floor heating
 Console air conditioners can operate faster to provide more powerful performance. The results is to attain the desired temperature much faster in floor heating mode than conventional air conditioners.

	Company A	Company B	Electric Heater	LG	LG Floor Heating Mode
Vertical					
Horizontal					
Lead Time for Heating (13°C, 21°C)	12 minutes 30 seconds	9 minutes 40 seconds	50 minutes	9 minutes 30 seconds	8 minutes 40 seconds

(Test Condition : Target Temp 23°C, Indoor Room: 13°C, Outdoor Room: 7°C)

- EZ vane tap control
- Quiet operation (22dB)

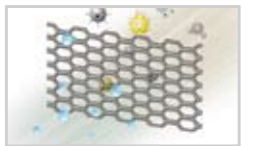


Healthy Air (3 stage air filter system)

1st Advanced pre filter :
 The antibacterial pre-filter primarily reduces large dust, mould and quilt dust.



2nd Allergy Filter :
 Filter consists of enzyme that breaks down allergen, apatite, and organic/inorganic binder that attaches the enzyme to the filter. When the air passes the filter, allergen clings to the filter and like tiny pairs of scissors the enzymes cut allergen's protein to deactivate the allergen.



3rd Nano Plasma Ion Generator :
 The sterilized ion generating system, Ion Generator, emits around 1.2 million ions, and catches hazardous substances floating in the air, therefore proactively looking for and catching germs.



Various Indoor Units

Capacity (kW)	2.6	3.5	5.3	7.0
	MV09AH NEO	MV12AH NEO	MV18AH NB0	MV24AH NB0

Various Indoor Units

Capacity (kW)	2.6	3.5	5.3
	CQ09 NA0	CQ12 NA0	CQ18 NA0

Specifications

		Ceiling & Floor				
Model		MV09AH NEO	MV12AH NEO	MV18AH NB0	MV24AH NB0	
Cooling Capacity	Btu/h	9,000	12,000	18,000	24,000	
	kW	2.64	3.52	5.27	7.03	
Heating Capacity	Btu/h	10,000	13,200	19,800	25,200	
	kW	2.93	3.87	5.8	7.38	
Current Nominal running current	A	0.56	0.56	0.67	0.67	
Air flow rate (H/M/L)	cmm	7.8/6.4/5.0	10.0/8.3/6.5	13.5/12/11	15/13.5/12	
	cfm	27.6/22.6/17.7	35.3/29.3/23.0	47.7/42.4/38.8	53.0/47.7/42.4	
Dimensions (W*H*D)	Body	mm(inch)	900×200×490(35.4×7.9×19.3)	900×200×490(35.4×7.9×19.3)	1,200×205×615(47.2×8.1×24.2)	1,200×205×615(47.2×8.1×24.2)
	Weight	kg(lbs)	12(26.5)	12(26.5)	30(66.1)	30(66.1)
Sound level (H/M/L)	dB(A)±3	36/32/28	40/36/31	43 / 40 / 37	45 / 42 / 39	
Piping Connections	Liquid	mm(inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas	mm(inch)	9.52(3/8)	9.52(3/8)	12.7(1/2)	12.7(1/2)
Dehumidification rate	l/h	1.0	1.2	2.0	3.0	

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

Specifications

		Console			
Model		CQ09 NA0	CQ12 NA0	CQ18 NA0	
Cooling Capacity	Btu/h	9,000	12,000	18,000	
	kW	2.64	3.52	5.27	
Heating Capacity	Btu/h	10,000	13,200	19,800	
	kW	2.93	3.87	5.8	
Running current	A	0.56	0.56	0.67	
Air flow rate (H/M/L/Sleep)	cmm	8.1/6.5/5.2	8.1/6.5/5.2	10.1/8.6/7.2	
	cfm	28.3/23.0/17.7	28.3/23.0/17.7	37.1/30.0/36.5	
Dimensions (W*H*D)	Body	mm(inch)	700×600×210(27.5×23.6×8.3)	700×600×210(27.5×23.6×8.3)	700×600×210(27.5×23.6×8.3)
	Weight	kg(lbs)	13.8(30.4)	13.8(30.4)	13.8(30.4)
Sound level (H/M/L/Sleep)	dB(A)±3	38/32/27	39/32/27	44/39/35	
Piping Connections	Liquid	mm(inch)	6.35 (1/4)	6.35 (1/4)	6.35 (1/4)
	Gas	mm(inch)	9.52(3/8)	9.52(3/8)	12.7(1/2)
Dehumidification rate	l/h	1.0	1.2	2.0	

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