

NEW SOUTH WALES / HEAD OFFICE

2 Wonderland Drive EASTERN CREEK NSW 2766
PH : 02-8805-4000 FAX : 02-8805-4248

QUEENSLAND

23 Terrace Place MURARRIE QLD 4172
PH : 07-3908-9000 FAX : 07-3399-4179

VICTORIA

3 John Deere Court, Parkwest Estate DERRIMUT VIC 3030
PH : 03-8369-0900 FAX : 03-9931-0677

SOUTH AUSTRALIA

162 Richmond Road, Marleston SA 5033
PH : 08-8238-0200 FAX : 08-8238-0299

WESTERN AUSTRALIA

Unit 1/1A 2 Business Way Malaga 6090
PO Box 1724 Malaga WA 6944
PH : 08-9249-3721 FAX : 08-9249-1300

Customer Information Centre is available 7 days
from 7AM-7PM on 1300 54 2273 (1300 LG CARE)
SMS Fault call 0400 660 629
<http://www.lg.com.au/airconditioning>

NEW ZEALAND

LG House, Level 1, Building 2, 60 Highbrook Drive,
East Tamaki, Auckland, 2013, New Zealand
Tel : +64 (09) 914 2444 Fax : +64 (09) 914 2441

Customer Service Helpline
0800 54 2273 (0800 LG CARE)
www.lge.com/nz

©LG Electronics Australia Pty, Ltd. Printed in Korea [February 2015]



LG Electronics Changwon Facility Achieved ISO9001 Certification Under Series 9000 of International Standard Organization(ISO) Based on Quality Systems For Design & Manufacture of Air Conditioners, Hermetic Refrigeration Compressors.

Disclaimer

The descriptions and specifications in this brochure are relevant as at the date of publication. In the interest of product development, LG Electronics reserves the right to carry out alterations and improvements to products and specifications. Future releases of products, accessories and parts for them may differ from, and may not be compatible with current versions. As it may be difficult to determine the exact nature of a product from its depiction in this brochure, LG Electronics strongly recommends that you confirm with your retailer that the product shown or described in this brochure meets your requirements before you purchase the product.



LG HVAC SOLUTION

MULTI SPLIT

AIR CONDITIONERS

MULTI F / MULTI F DX



LG HVAC SOLUTION

LG MULTI SPLIT AIR CONDITIONERS



ENJOY CLEAN, STYLISH AND COMFORTABLE AIR CONDITIONING AND LG

LG is committed to bringing comfort to its customers and has produced a large range of air conditioners that do just that. It's all about comfort in the home, and offering you the perfect harmony of stylish design and smart technology that fits your life.

Whether it is just a small unit for the bedroom, a larger unit to help keep you cool in your lounge room, or a system to cool the entire house such as Ducted or Multi-Split systems, LG has designed stylish, smart, reliable and functional air conditioners designed to help make **Life good.**

MULTI SPLIT

17	Outdoor Units
24	Indoor Units
34	Accessories
36	Combination Table



MULTI SPLIT

OUTDOOR UNITS / INDOOR UNITS LINE UP

Outdoor Units

Type kW	MULTI F (Multi Piping)	Max. Indoor units	Phase	Combination Sample
5.3	UHXM55MA1 	3	1ø	
7.0	UHXM70MA1 	4	1ø	
8.8	UHXM90MA1 	5	1ø	
11.2	UHXM110MA1 	5	1ø	
Type kW	MULTI F DX (DB Box Type)	Max. Indoor units	Phase	Combination Sample
8.8	UHXM90BA0 	4	1ø	
11.2	UHXM120BA1 	7	1ø	
14.0	UHXM140BA1 	8	1ø	
15.5	UHXM160BA1 	9	1ø	

Indoor Units

Type kW	Wall Mounted			Ceiling Cassettes	Ceiling Concealed Ducts	
	Standard	ART COOL Mirror	ART COOL Gallery		High Static	Low Static
2.1	 MS07AH1	 NHXM20S2A1				
2.6	 MS09AH1	 NHXM30S2A1	 MA09AH-NF1	 NHXM30C1A1		 NHXM30D3A0
3.5	 MS12AH1	 NHXM40S2A1	 MA12AH-NF1	 NHXM40C1A1  NHXM40C4A1		 NHXM40D3A0
5.3	 MS18AH1	 NHXM50S2A1		 NHXM50C4A1	 NHXM50D1A1	 NHXM50D3A0
7.0	 MS24AH1	 NHXM70S2A1		 NHXM70C4A1	 NHXM70D1A1	 NHXM70D3A0
8.8					 NHXM90D1A0	
10.6					 NHXM110D1A0	

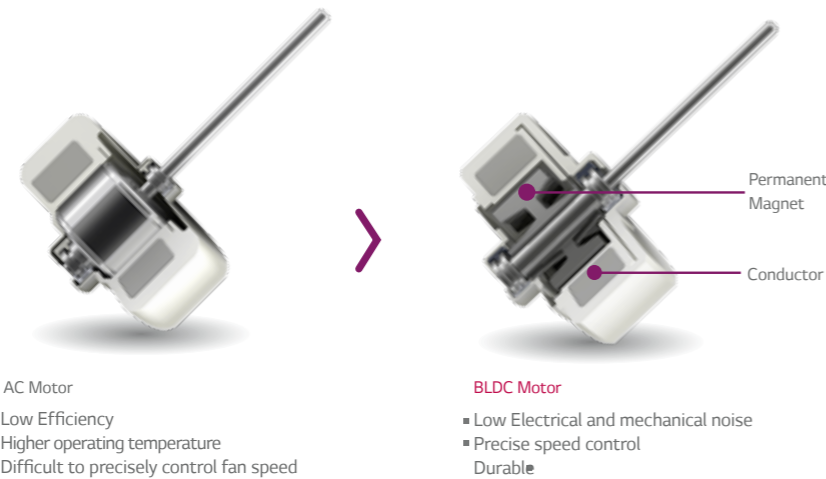
ENERGY EFFICIENCY TECHNOLOGIES

BLDC (Brushless Direct Current motor) Compressor

LG air conditioners are equipped with a BLDC compressor that uses a strong neodymium magnet. The compressor has improved efficiency compared to AC inverter products and it is optimised for seasonal efficiency.

Brushless DC Fan Motor

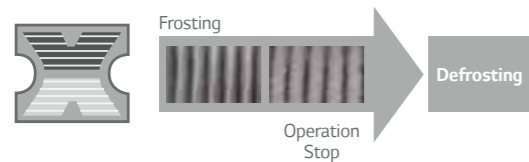
The BLDC motor is made up of powerful ND magnets providing high torque, resulting in the ability to provide large air volume and high static pressure capability. This allows high speed operation at reduced electrical and mechanical noise.



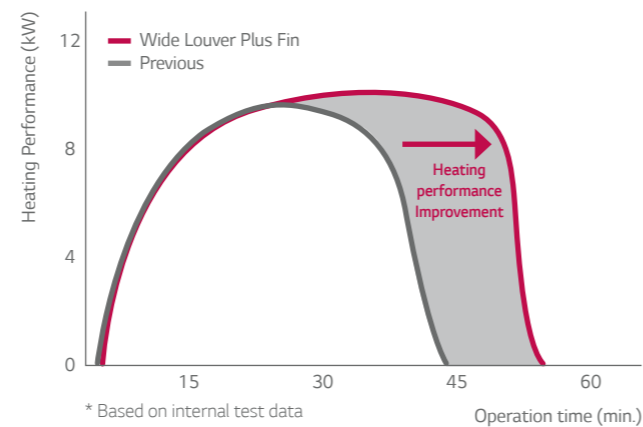
Wide Louver Plus Fin

Wide Louver Plus fin technology increases 11% of full load heating performance and 6% of COP compared to conventional fin. It can slow down frosting of heat exchanger and postpone the start of defrosting operation.

Previous LG model



Wide Louver Plus

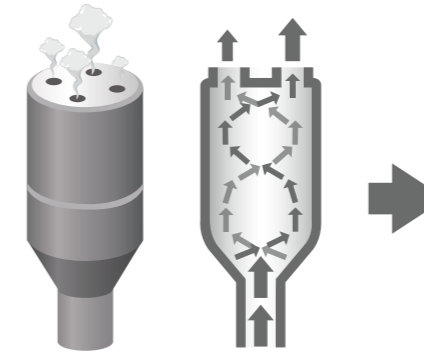


Optimised Heat Exchanger Path

Optimised heat exchanger path improved cycle efficiency up to 5%.

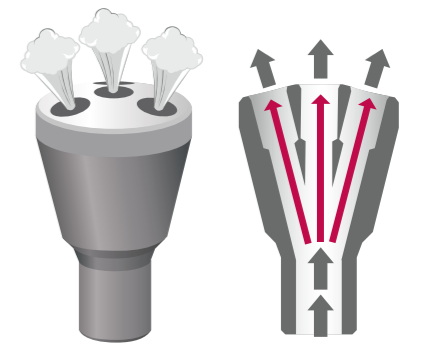
Previous

Unequal distribution



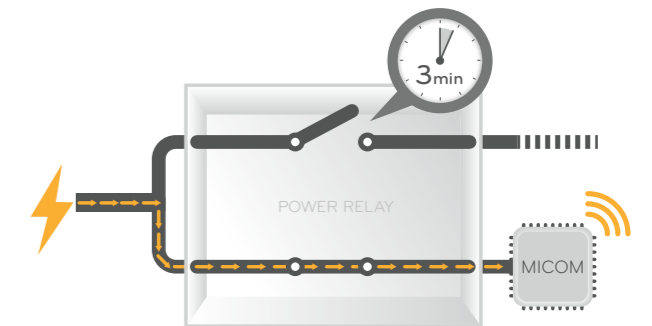
New

Equal distribution



Standby Mode

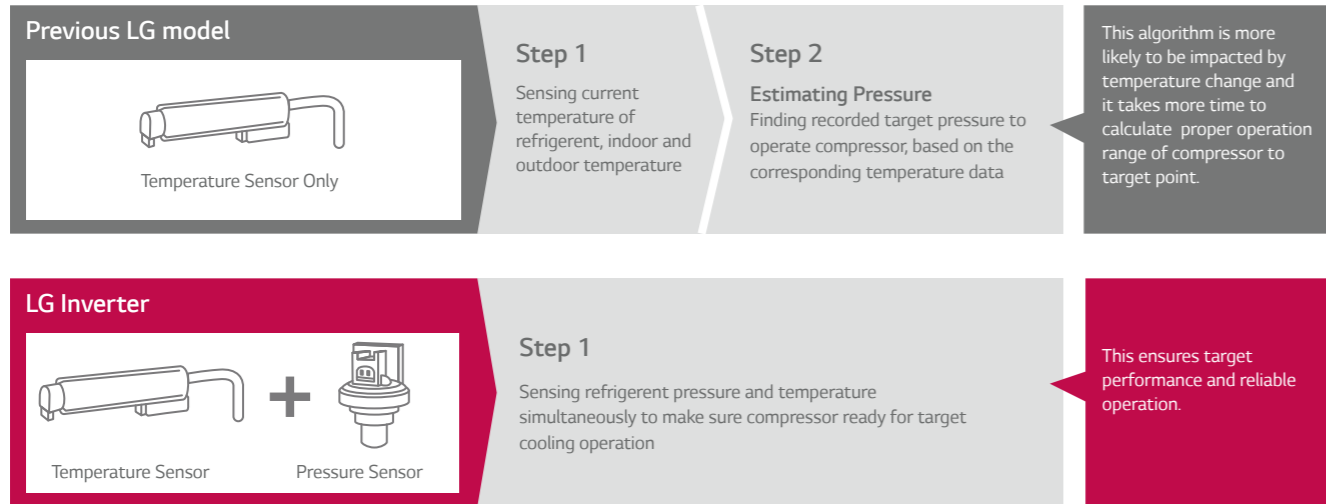
The Standby Mode operates three minutes after the air conditioner is turned off via the remote control. The Standby Mode removes power from the outdoor unit and only powers the indoor unit remote control receiver circuitry, saving unnecessary power consumption in the outdoor unit.



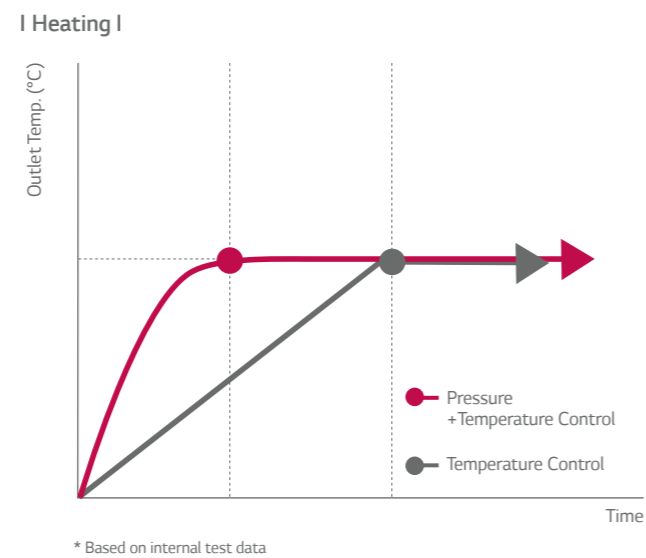
* Based on UHXM55MA1

QUICK COOLING & HEATING

Quick Operating Response

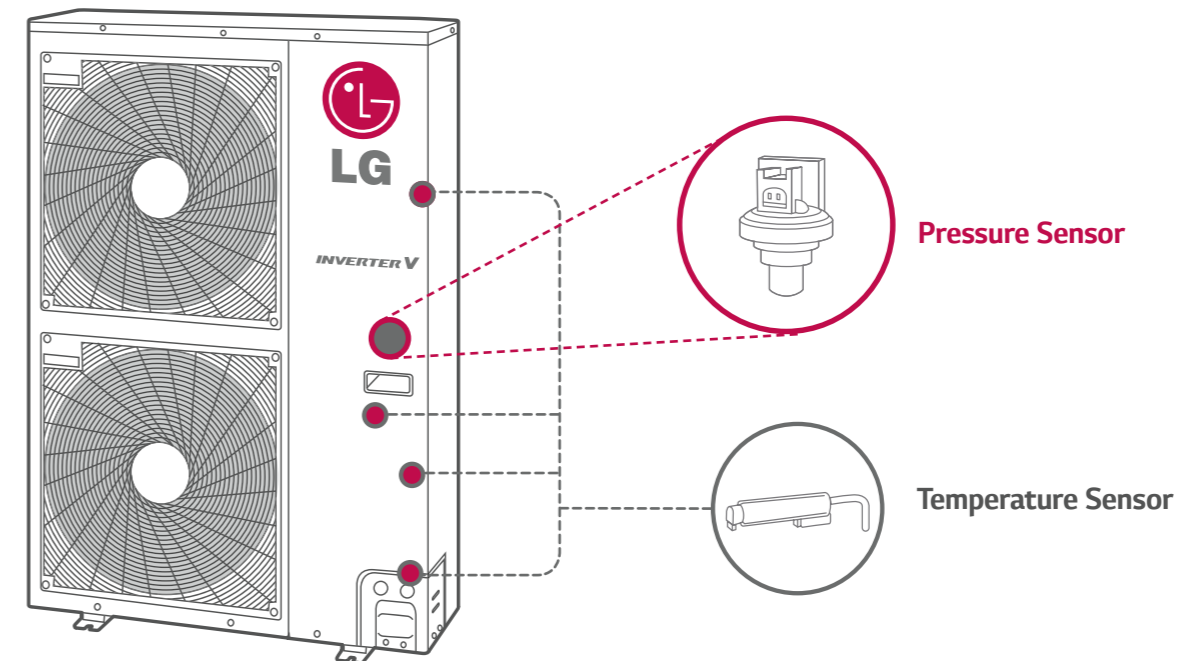
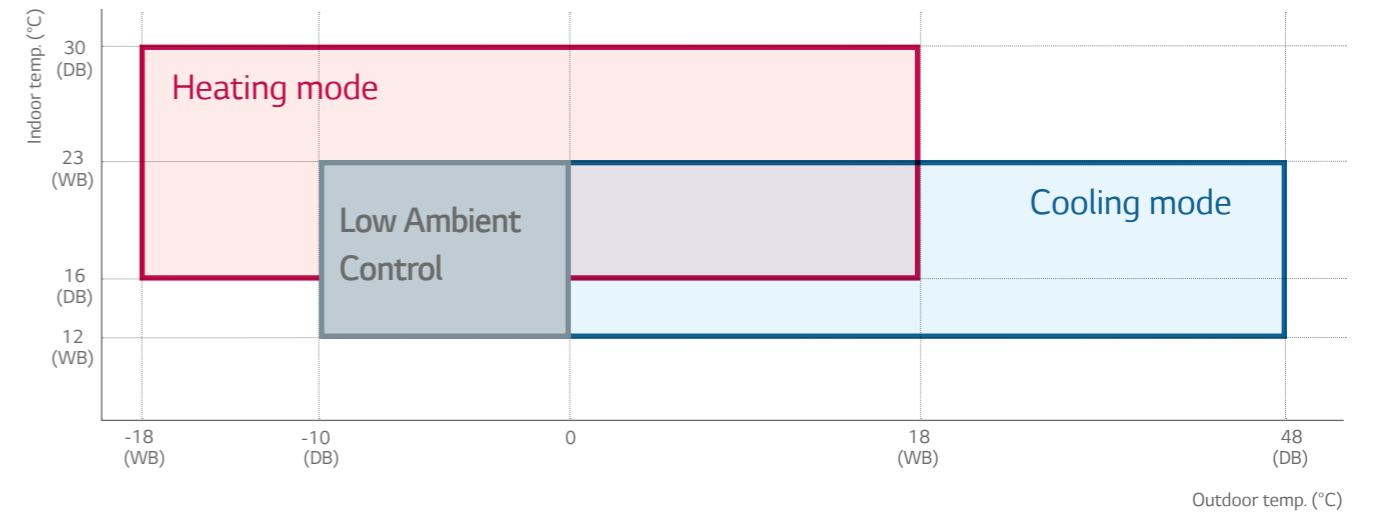


Using both pressure and temperature sensors improves control accuracy and stability resulting in a quick operating response time.



RELIABLE PERFORMANCE

Wide Operating Conditions

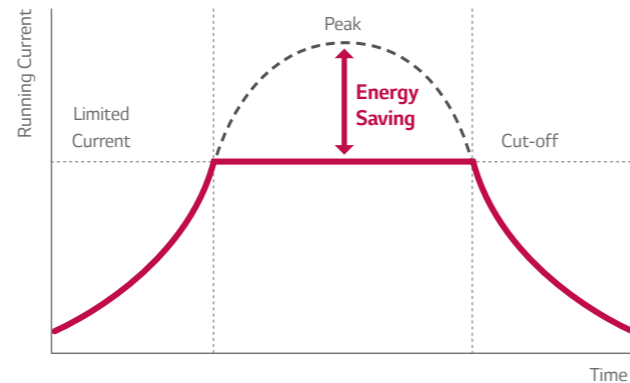


ENERGY CONTROL

Peak Current Control

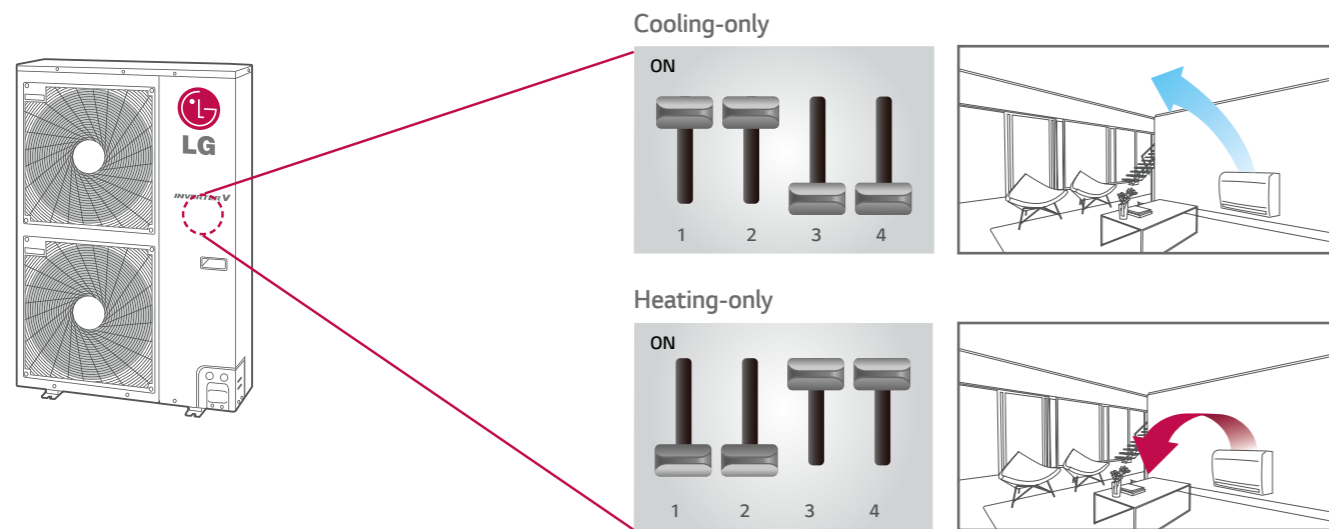
The peak current control function limits the air conditioner from running at the maximum level thus improving operating efficiency to help reduce energy consumption.

*This function is not user adjustable, please contact your nearest AC installer.



Mode Lock

Set the operation mode to either cooling-only or heating-only by adjusting the dip switch inside the unit. This will help to prevent mixed use of cooling and heating.



* Applied to all MULTI outdoors

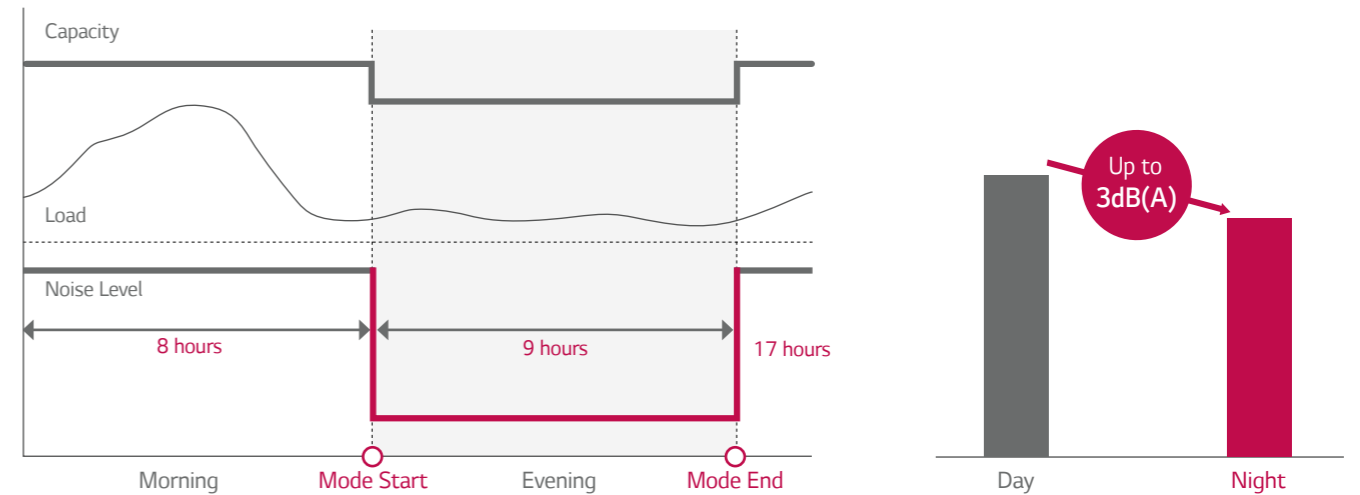
*This function is not user adjustable, please contact your nearest AC installer.

QUIET OPERATION

"Night Quiet" Operation

"Night Quiet" operation can reduce noise levels at night time by setting the dip switch on the PCB of the outdoor unit*.

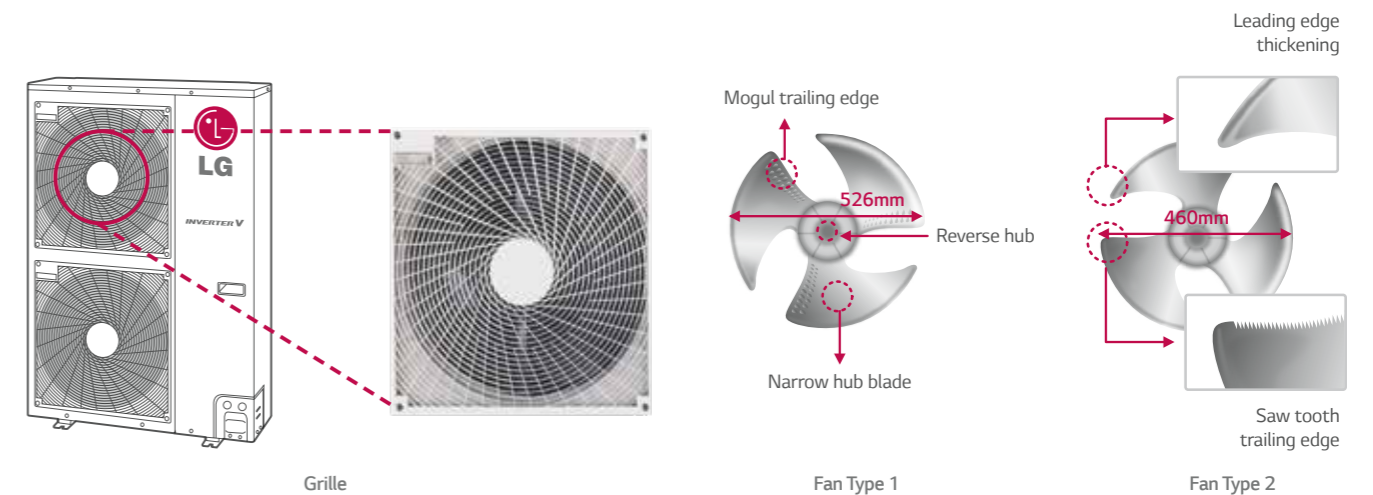
I Cooling mode I



*This function is not user adjustable, please contact your nearest AC installer.

Improved Grille & Fan

The grille shape design on the outdoor unit helps to disperse air more efficiently which improves heat exchange and reduces noise level. The new axial fan has a thick front edge and smooth rear edge, this provides a high efficiency, low noise, wide fan, as well as improving the air flow rate.



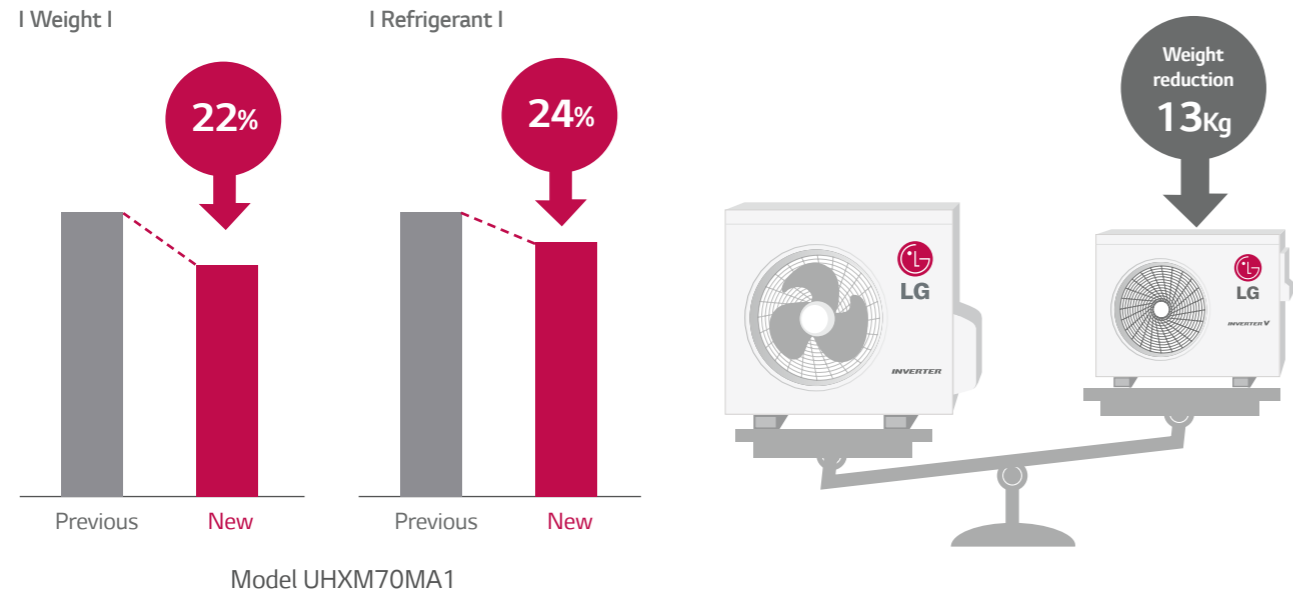
Fan Type 1 - UHXM90BA0

Fan Type 2 - UHXM70MA1, UHXM90MA1, UHXM110MA1, UHXM120BA1, UHXM140BA1, UHXM160BA1

EASY INSTALLATION & MAINTENANCE

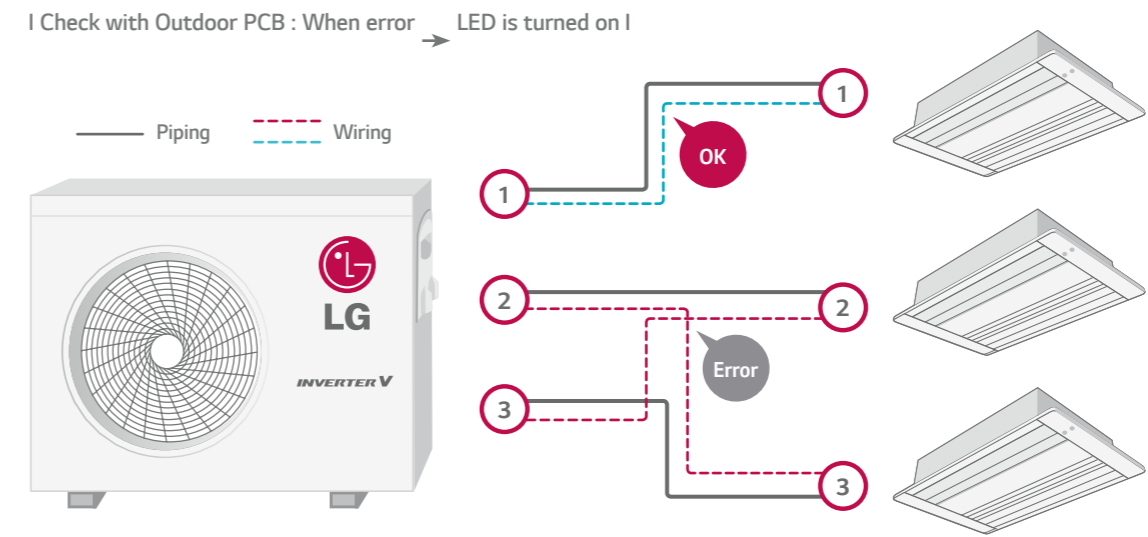
Compact Size & Lightweight (UHXM70MA1)

Some MULTI F models are more compact and lighter compared to previous models. The reduction in weight makes it easier to carry and install.



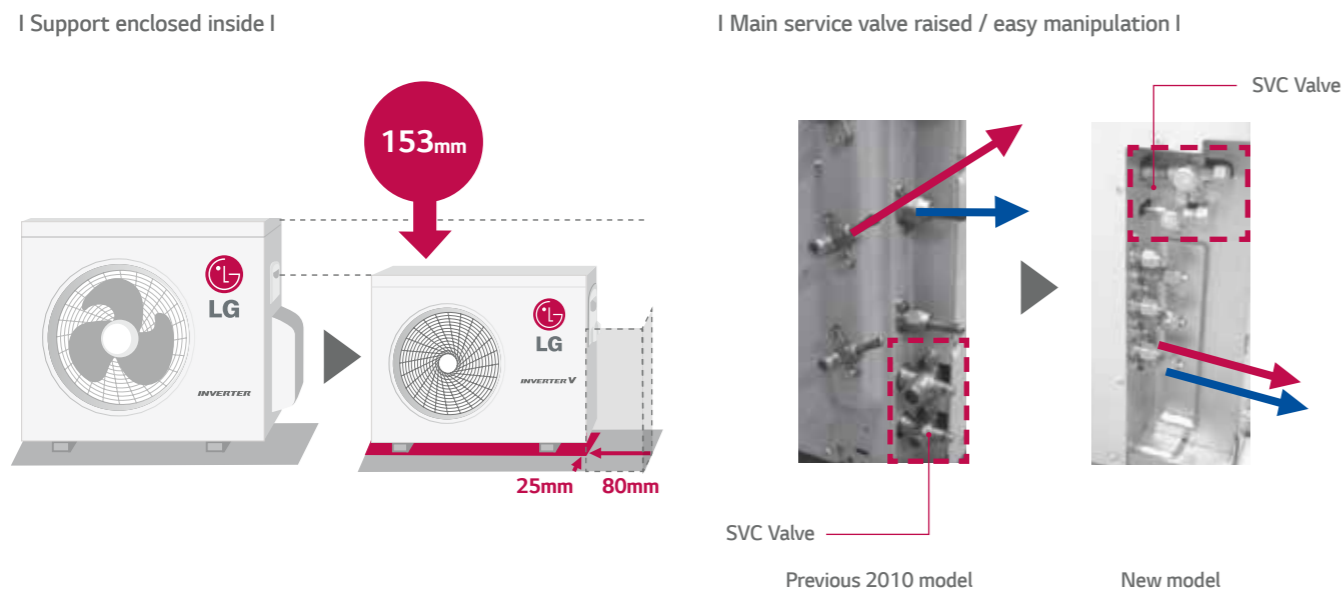
Wiring Error Check (UHXM55MA1, UHXM70MA1, UHXM90MA1, UHXM110MA1)

Installers can check whether the transmission cable has been connected correctly by using the wiring error check function. The wiring error check can reduce the time taken to check for transmission cable errors.



Inner Support (UHXM55MA1)

The Multi F has a better design so that the piping cover is enclosed and the size reduced by 80mm and 25mm at the side and back respectively. As a result it is possible to install the unit close to a wall. As well as the easily accessible service valve, it is possible to conveniently service the outdoor unit when installed below a window.



INSTALLATION & MAINTENANCE

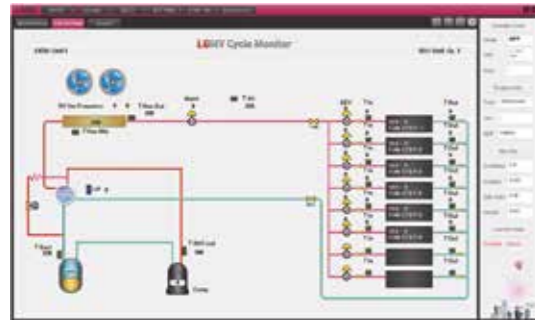
LG MV (Monitoring View)

LG MV helps technicians inspect and monitor air conditioning units easily. Information is provided by product type. (Single Split & Multi Split)



- IDU info.
- Cycle & valves
- Actuator info.
- Sensors & Electric
- ODU info.

LG MV provides cycle information with diagrams and the technicians can check accumulated data on a graph.



A manager can easily check the error status by looking at the indicator information. (Troubleshooting guide)

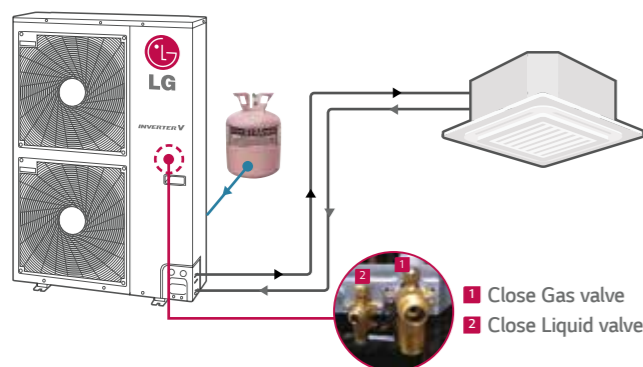
Error indicator

Error Code	Contents
01	Air temperature sensor of indoor unit
02	Inlet pipe temperature sensor of indoor unit
03	Communication error : wired remote controller ↔ indoor unit
	⋮

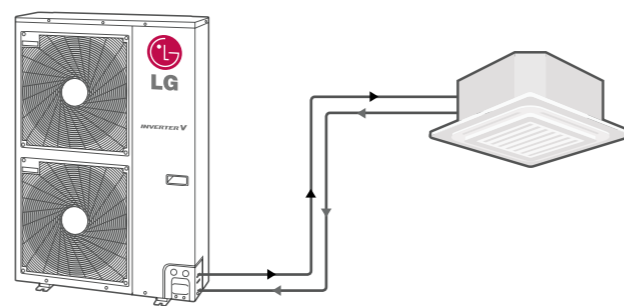
Pump Down Mode

The forced cooling operation allows refrigerant to be recharged or pumped down, regardless of the indoor temperature. More importantly this function can be used when indoor units are being repaired.

I Recharging I



I Pump Down I



FLEXIBLE COMBINATION

Long and High Elevation Piping

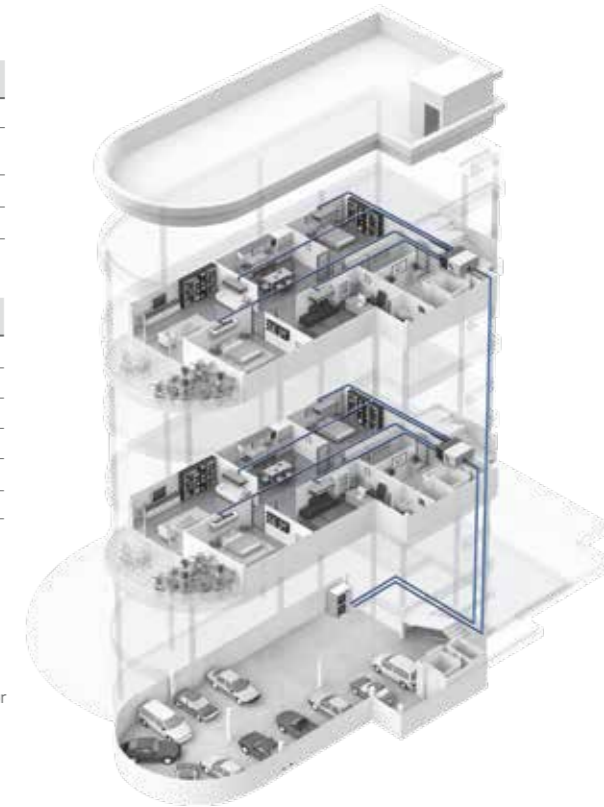
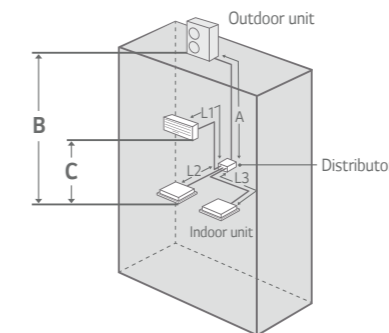
UHXM160BA1 supports piping lengths of up to 145m and elevations of up to 30m for more flexibility in installations.

I Multiple Piping Type I

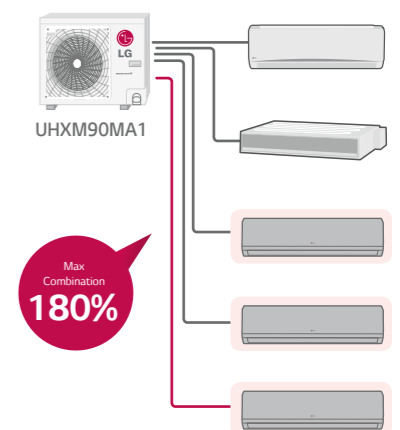
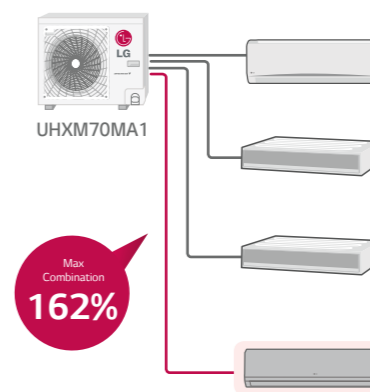
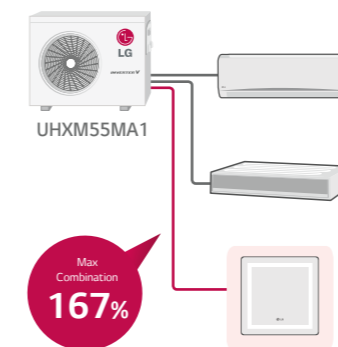
(m)	UHXM55MA1	UHXM70MA1	UHXM90MA1	UHXM110MA1
Total Piping Length	50	70	75	85
Piping Length per Branch	25	25	25	25
Max. Elevation	Indoor-Outdoor	15	15	15
	Indoor-Indoor	7.5	7.5	7.5

I Distribution Box Type I

(m)	UHXM90BA0	UHXM120BA1	UHXM140BA1	UHXM160BA1
Total Pipe (A+L1+L2+L3)	80	100	135	145
Main Pipe (A)	30	50	55	55
Total Branch Pipe (L1+L2+L3)	50	50	80	90
Each Branch Pipe	15	15	15	15
Max.Elevation	Indoor-Outdoor (B)	15	30	30
	Indoor-Indoor (C)	7.5	15	15



Indoor Capacity Combinations



• UHXM110MA1, UHXM90BA0, UHXM120BA1, UHXM140BA1, UHXM160BA1 : 180%

FLEXIBLE COMBINATIONS

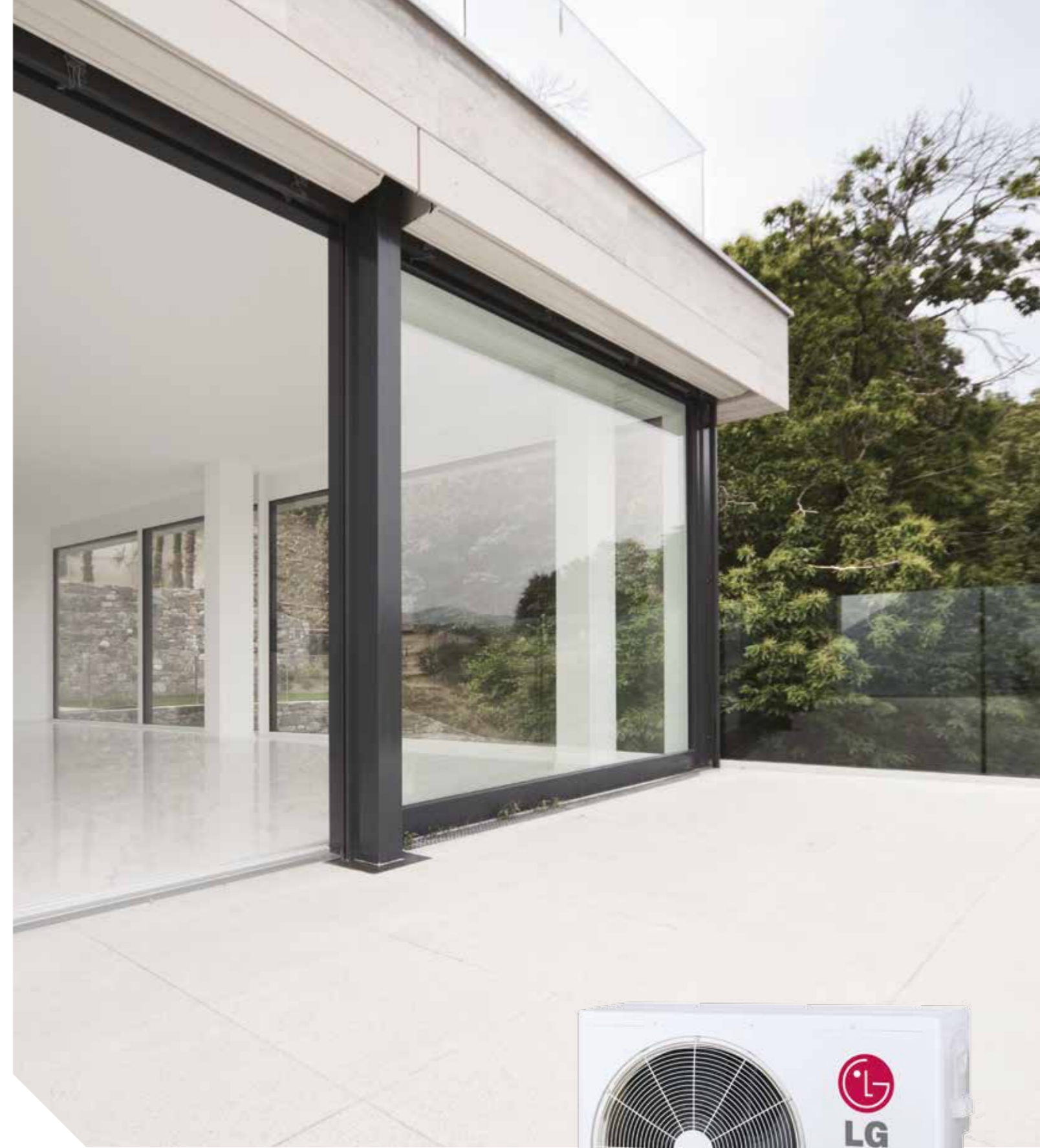
Variety of Combinations



8 Outdoor Units

25 Indoor Units

* Across multi F and FDX range

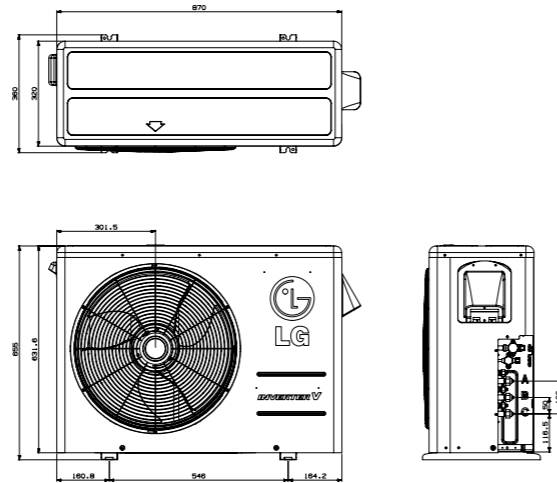


OUTDOOR UNITS



UHXM55MA1

MULTI F



(Unit : mm)

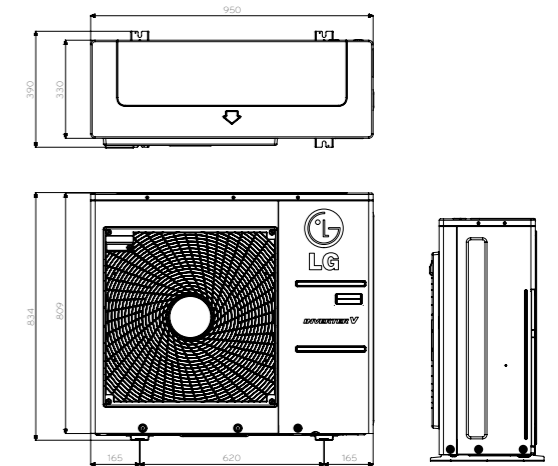
Outdoor Unit				UHXM55MA1
Compressor	Type			Twin Rotary
Capacity *	Cooling	Min/Nom/Max	kW	1.35/5.27/6.33
	Heating	Min/Nom/Max	kW	1.41/6.33/7.27
Power Input *	Cooling	Min/Nom/Max	kW	0.14/1.29/2.08
	Heating	Min/Nom/Max	kW	0.18/1.53/2.64
Running Current	Cooling	Min/Nom/Max	A	0.6/6.0/9.0
	Heating	Min/Nom/Max	A	0.8/7.0/11.5
EER				4.57
COP				4.15
Airflow Rate	Nom		m ³ /min	31
			I/S	517
Sound Pressure	Cooling	Nom	dB(A)	50
	Heating	Nom	dB(A)	52
Dimensions	WxHxD		mm	870x655x320
Net Weight				45.0
Refrigerant	Type			R410A
	Charge	g		1,700
	Additional Charge	g/m		20
Operation Range (Outdoor)	Cooling	Min-Max	°C DB	-10~48
	Heating	Min-Max	°C WB	-18~18
Power Supply				1/220-240/50
Power Supply Cable				No.xmm ² 3Cx2.5
Transmission Cable				No.xmm ² 4Cx0.75
Circuit Breaker				A 20
Piping Length Total				50
Piping Length per Branch	Max		m	25
Piping Elevation Difference	IDU-ODU	Max	m	15
	IDU-IDU	Max	m	7.5
Piping Connection	Liquid	mm(inch)xNo.		ø 6.35 (1/4)x3
	Gas	mm(inch)xNo.		ø 9.52 (3/8)x3

Notes: 1. Capacities are based on the following conditions:
 Cooling : - Indoor Temperature 27°C DB / 19°C WB
 - Outdoor Temperature 35°C DB / 24°C WB
 Heating : - Indoor Temperature 20°C DB / 15°C WB
 - Outdoor Temperature 7°C DB / 6°C WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero.

2. * : See page "Combination Table".
 3. Due to our policy of innovation some specifications may change without notification.
 4. At least two indoor units should be connected.
 5. Minimum combination capacity rate should be more than 40%.

UHXM70MA1 / UHXM90MA1

MULTI F



(Unit : mm)

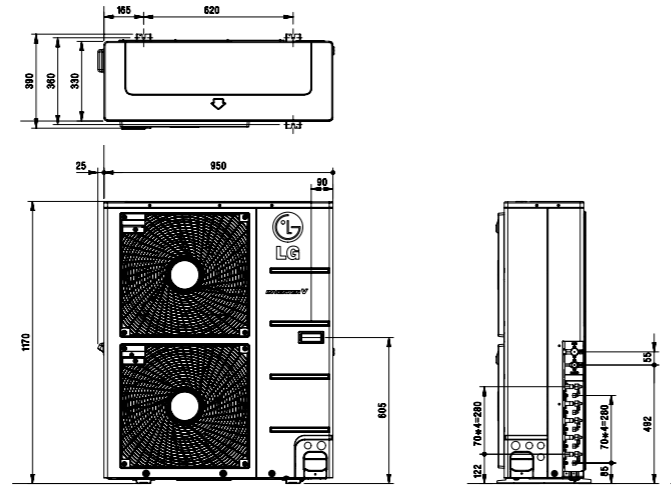
Outdoor Unit				UHXM70MA1	UHXM90MA1
Compressor	Type			Twin Rotary	Twin Rotary
Capacity *	Cooling	Min/Nom/Max	kW	1.32/7.03/8.5	1.32/6.8/10.6
	Heating	Min/Nom/Max	kW	1.45/8.44/9.38	1.47/10.1/12.1
Power Input *	Cooling	Min/Nom/Max	kW	0.44/1.29/2.59	0.44/2.20/3.3
	Heating	Min/Nom/Max	kW	0.5/1.53/2.99	0.5/2.20/3.7
Running Current	Cooling	Min/Nom/Max	A	2.0/7.2/11.1	2.0/9.9/16.2
	Heating	Min/Nom/Max	A	2.2/8.1/12.8	2.2/9.8/16.5
EER				4.59	4.26
COP				4.59	4.58
Airflow Rate	Nom		m ³ /min	30	30
			I/S	500	500
Sound Pressure	Cooling	Nom	dB(A)	51	51
	Heating	Nom	dB(A)	53	53
Dimensions	WxHxD		mm	950x834x330	950x834x330
Net Weight				64.0	64.0
Refrigerant	Type			R410A	R410A
	Charge	g		3,200	3,200
	Additional Charge	g/m		20	20
Operation Range (Outdoor)	Cooling	Min-Max	°C DB	-10~48	-10~48
	Heating	Min-Max	°C WB	-18~18	-18~18
Power Supply				1/220-240/50	1/220-240/50
Power Supply Cable				No.xmm ² 3Cx2.5	No.xmm ² 3Cx2.5
Transmission Cable				No.xmm ² 4Cx0.75	No.xmm ² 4Cx0.75
Circuit Breaker				A 25	A 25
Piping Length Total				70	75
Piping Length per Branch	Max		m	25	25
Piping Elevation Difference	IDU-ODU	Max	m	15	15
	IDU-IDU	Max	m	7.5	7.5
Piping Connection	Liquid	mm(inch)xNo.		ø 6.35 (1/4)x4	ø 6.35 (1/4)x5
	Gas	mm(inch)xNo.		ø 9.52 (3/8)x4	ø 9.52 (3/8)x5

Notes: 1. Capacities are based on the following conditions:
 Cooling : - Indoor Temperature 27°C DB / 19°C WB
 - Outdoor Temperature 35°C DB / 24°C WB
 Heating : - Indoor Temperature 20°C DB / 15°C WB
 - Outdoor Temperature 7°C DB / 6°C WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero.

2. * : See page "Combination Table".
 3. Due to our policy of innovation some specifications may change without notification.
 4. At least two indoor units should be connected.
 5. Minimum combination capacity rate should be more than 40%.

UHXM110MA1

MULTI F



(Unit : mm)

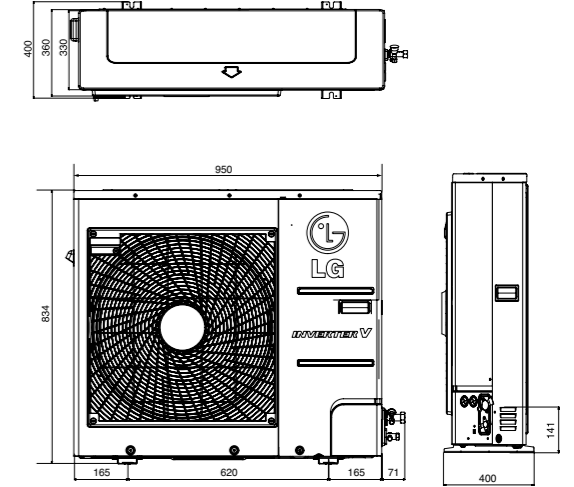
Outdoor Unit				UHXM110MA1
Compressor	Type			Twin Rotary
Capacity *	Cooling	Min/Nom/Max	kW	0.88/11.2/13.55
	Heating	Min/Nom/Max	kW	0.97/12.5/15
Power Input *	Cooling	Min/Nom/Max	kW	0.78/2.73/4.15
	Heating	Min/Nom/Max	kW	0.82/2.81/4.45
Running Current	Cooling	Min/Nom/Max	A	3.5/12.1/18.4
	Heating	Min/Nom/Max	A	3.6/12.5/19.7
EER				4.38
COP				4.42
Airflow Rate	Nom		m ³ /min	34
			I/S	1,146
Sound Pressure	Cooling	Nom	dB(A)	53
	Heating	Nom	dB(A)	55
Dimensions	WxHxD		mm	950x1,170x330
Net Weight				84.0
Refrigerant	Type			R410A
	Charge	g		3,800
	Additional Charge	g/m		20
Operation Range (Outdoor)	Cooling	Min-Max	°C DB	-10~48
	Heating	Min-Max	°C WB	-18~18
Power Supply				1/220-240/50
Power Supply Cable				No.xmm ² 3Cx3.5
Transmission Cable				No.xmm ² 4Cx0.75
Circuit Breaker				A 30
Piping Length Total				m 85
Piping Length per Branch	Max		m	25
Piping Elevation Difference	IDU-ODU	Max	m	15
	IDU-IDU	Max	m	7.5
Piping Connection	Liquid	mm(inch)xNo.		ø 6.35 (1/4)x5
	Gas	mm(inch)xNo.		ø 9.52 (3/8)x5

Notes: 1. Capacities are based on the following conditions:
 Cooling : - Indoor Temperature 27°C DB / 19°C WB
 - Outdoor Temperature 35°C DB / 24°C WB
 Heating : - Indoor Temperature 20°C DB / 15°C WB
 - Outdoor Temperature 7°C DB / 6°C WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero.

2. * : See page "Combination Table".
 3. Due to our policy of innovation some specifications may change without notification.
 4. At least two indoor units should be connected.
 5. Minimum combination capacity rate should be more than 40%.

UHXM90BA0

MULTI F DX



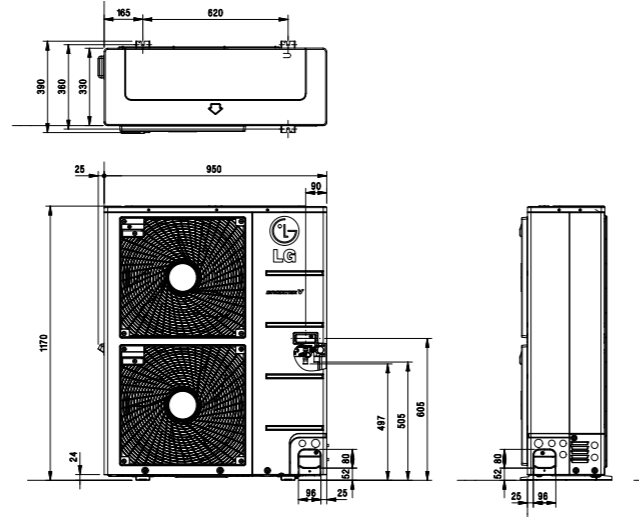
(Unit : mm)

Outdoor Unit				UHXM90BA0
Compressor	Type			Twin Rotary
Capacity *	Cooling	Min/Nom/Max	kW	1.85/8.80/10.55
	Heating	Min/Nom/Max	kW	2.22/9.60/12.1
Power Input *	Cooling	Min/Nom/Max	kW	0.72/2.50/3.16
	Heating	Min/Nom/Max	kW	0.88/2.20/3.87
Running Current	Cooling	Min/Nom/Max	A	3.2/10.9/13.8
	Heating	Min/Nom/Max	A	3.9/9.6/16.9
EER				3.43
COP				4.38
Airflow Rate	Nom		m ³ /min	36
			I/S	607
Sound Pressure	Cooling	Nom	dB(A)	52
	Heating	Nom	dB(A)	52
Dimensions	WxHxD		mm	950x834x330
Net Weight				64
Refrigerant	Type			R410A
	Charge	g		2,750
	Additional Charge	g/m		20g/m
Operation Range (Outdoor)	Cooling	Min-Max	°C DB	-10 ~ 46
	Heating	Min-Max	°C WB	-10 ~ 24
Power Supply				1/220-240/50
Power Supply Cable				No.xmm ² 3C x 2.5
Transmission Cable	ODU-BD	No.xmm ²		4C x 1.25
Circuit Breaker	BD-IDU	No.xmm ²		4C x 0.75
Max Piping Length	Total Piping(Main+Total Branch)		m	25
	Main Piping		m	80
	Total Branch Piping		m	30
	Each Branch Piping		m	50
Piping Elevation Difference	IDU-ODU	Max	m	15
	IDU-IDU	Max	m	7.5
Piping Connection	Liquid	mm(inch)		ø 9.52(3/8)
	Gas	mm(inch)		ø 19.05(3/4)

Notes: 1. Capacities are based on the following conditions:
 Cooling : - Indoor Temperature 27°C DB / 19°C WB
 - Outdoor Temperature 35°C DB / 24°C WB
 Heating : - Indoor Temperature 20°C DB / 15°C WB
 - Outdoor Temperature 7°C DB / 6°C WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero.

2. * : See page "Combination Table".
 3. Due to our policy of innovation some specifications may change without notification.
 4. At least two indoor units should be connected.
 5. Minimum combination capacity rate should be more than 40%.

UHXM120BA1



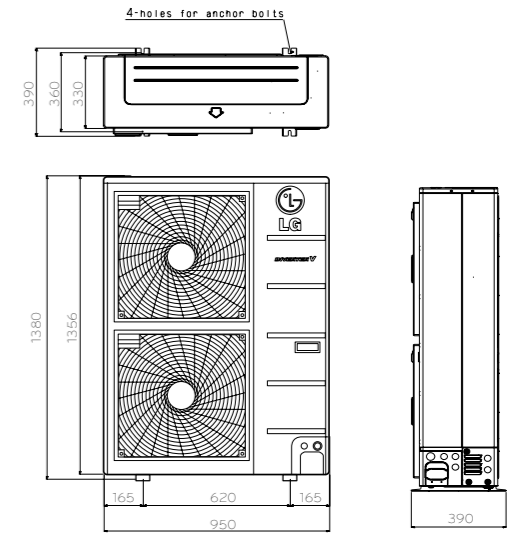
(Unit : mm)

Outdoor Unit				UHXM120BA1				
Compressor	Type			Twin Rotary				
Capacity *	Cooling	Min/Nom/Max	kW	2.8/11.2/12.6				
	Heating	Min/Nom/Max	kW	3.1/12.5/15				
Power Input *	Cooling	Min/Nom/Max	kW	0.78/2.73/4.15				
	Heating	Min/Nom/Max	kW	0.82/2.81/4.45				
Running Current	Cooling	Min/Nom/Max	A	3.5/12.1/18.4				
	Heating	Min/Nom/Max	A	3.6/12.5/19.7				
EER				4.26				
COP				4.42				
Airflow Rate			Nom	m ³ /min	68.6			
				I/S	1,144			
Sound Pressure	Cooling	Nom	dBA	53				
	Heating	Nom	dBA	58				
Dimensions	WxHxD		mm		950×1,170×330			
Net Weight				kg		82.0		
Refrigerant	Type			R410A				
	Charge			g		3,800		
	Additional Charge			g/m		20		
Operation Range (Outdoor)	Cooling	Min-Max	°C DB	-10~48				
	Heating	Min-Max	°C WB	-18~18				
Power Supply			ø/V/Hz		1/220-240/50			
Power Supply Cable			No.xmm ²		3C×3.5			
Transmission Cable	ODU-BD			No.xmm ²		4C×1.25		
	BD-IDU			No.xmm ²		4C×0.75		
Circuit Breaker				A		30		
Max Piping Length	Total Piping(Main+Total Branch)		m		100			
	Main Piping		m		50			
	Total Branch Piping		m		50			
	Each Branch Piping		m		15			
Piping Elevation Difference	IDU-ODU	Max	m		30			
	IDU-IDU	Max	m		15			
Piping Connection	Liquid			mm(inch)		ø 9.52 (3/8)		
	Gas			mm(inch)		ø 19.05 (3/4)		

Notes: 1. Capacities are based on the following conditions:
 Cooling : - Indoor Temperature 27°C DB / 19°C WB
 - Outdoor Temperature 35°C DB / 24°C WB
 Heating : - Indoor Temperature 20°C DB / 15°C WB
 - Outdoor Temperature 7°C DB / 6°C WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero.

2. * : See page "Combination Table".
 3. Due to our policy of innovation some specifications may change without notification.
 4. At least two indoor units should be connected.
 5. Minimum combination capacity rate should be more than 40%.

I UHXM140BA1 / UHXM160BA1



(Unit : mm)

Outdoor Unit				UHXM140BA1				UHXM160BA1				
Compressor	Type			Twin Rotary				Twin Rotary				
Capacity *	Cooling	Min/Nom/Max	kW	3.3/14.0/17.0		4.0/15.5/18.5		4.5/17.4/18.8				
	Heating	Min/Nom/Max	kW	3.7/16.0/17.3		4.5/17.4/18.8		4.5/17.4/18.8				
Power Input *	Cooling	Min/Nom/Max	kW	0.84/3.17/5.1		1/3.86/5.86		1/3.86/5.86				
	Heating	Min/Nom/Max	kW	1.3/3.66/5.17		1.49/3.9/6.19		1.49/3.9/6.19				
Running Current	Cooling	Min/Nom/Max	A	3.9/13.2/22.3		4.6/16.1/25.7		4.6/16.1/25.7				
	Heating	Min/Nom/Max	A	6.9/15.6/22.7		7.4/16.8/27.2		7.4/16.8/27.2				
EER				4.87		4.4		4.4				
COP				4.77		4.7		4.7				
Airflow Rate			Nom	m ³ /min	71		71					
				I/S	1,176		1,176					
Sound Pressure	Cooling	Nom	dBA	54		54		54				
	Heating	Nom	dBA	58		58		59				
Dimensions	WxHxD		mm		950×1,380×330		950×1,380×330					
Net Weight				kg		96.0		96.0				
Refrigerant	Type			R410A		R410A		R410A				
	Charge			g		4,400		4,400				
	Additional Charge			g/m		20		20				
Operation Range (Outdoor)	Cooling	Min-Max	°C DB	-10~48		-10~48		-10~48				
	Heating	Min-Max	°C WB	-18~18		-18~18		-18~18				
Power Supply			ø/V/Hz		1/220-240/50		1/220-240/50					
Power Supply Cable			No.xmm ²		3C×4.0		3C×4.0					
Transmission Cable	ODU-BD			No.xmm ²		4C×1.25		4C×1.25				
	BD-IDU			No.xmm ²		4C×0.75		4C×0.75				
Circuit Breaker				A		40		40				
Max Piping Length	Total Piping(Main+Total Branch)		m		135		145					
	Main Piping		m		55		55					
	Total Branch Piping		m		80		90					
	Each Branch Piping		m		15		15					
Piping Elevation Difference	IDU-ODU	Max	m		30		30					
	IDU-IDU	Max	m		15		15					
Piping Connection	Liquid			mm(inch)		ø 9.52 (3/8)		ø 9.52 (3/8)				
	Gas			mm(inch)		ø 19.05 (3/4)		ø 19.05 (3/4)				

Notes: 1. Capacities are based on the following conditions:
 Cooling : - Indoor Temperature 27°C DB / 19°C WB
 - Outdoor Temperature 35°C DB / 24°C WB
 Heating : - Indoor Temperature 20°C DB / 15°C WB
 - Outdoor Temperature 7°C DB / 6°C WB
 Piping Length - Interconnecting Piping Length 7.5m
 - Level Difference of Zero.

2. * : See page "Combination Table".
 3. Due to our policy of innovation some specifications may change without notification.
 4. At least two indoor units should be connected.
 5. Minimum combination capacity rate should be more than 40%.



INDOOR UNITS



WALL MOUNTED

Filtering

Filters are scientifically proven to deactivate viruses that may pose risks to health.

Virus Deactivation

The LG virus & allergy safe filter blocks neuramidase and hemagglutinin, which is activated when the virus breaks up from host cell to proliferate.

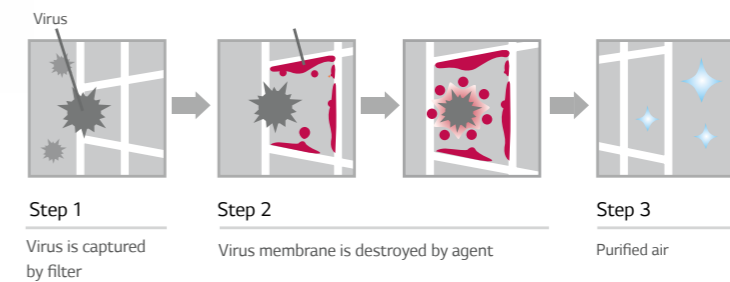
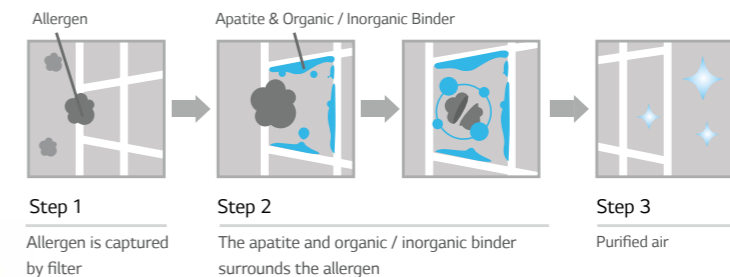
Allergy Filter

Allergy care filter coated with allergy decomposition substance



Virus Filter

Sterilising filter with anti-virus coating



| Artcool |



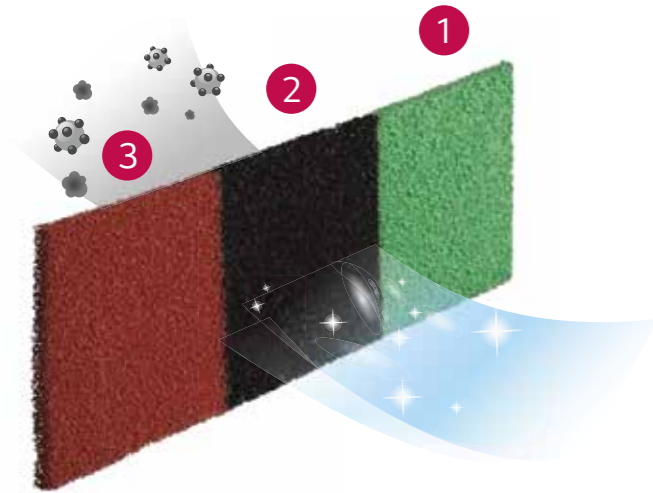
| Standard | (Allergy Safe Filter Only)



WALL MOUNTED

Triple Filter

Eliminates chemical particles and other odour emanating from different sources including tobacco.



- 1 VOC filter**
 removes odour and hazardous VOCs that are discharged from household materials made out of chemical substances (carpet, paint, cleaners, furniture, etc.) (VOC= Volatile Organic Chemical)
- 2 Formaldehyde filter**
 blocks formaldehyde.
- 3 Common odour filter**
 removes ordinary odours.

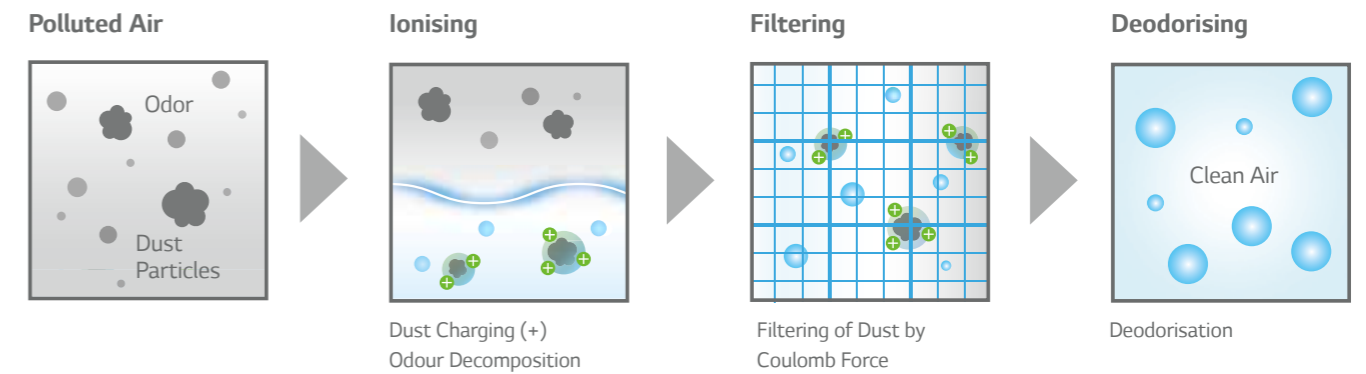
Auto Cleaning

A major cause of air conditioner odours is mould and bacteria that can breed in the heat exchanger. The auto clean function dries the wet heat exchanger to prevent mould and bacteria from breeding which can significantly reduce smells and help reduce cleaning frequency.



Eliminating (Plasma Filter)

Tiny dust particles are burnt and eliminated when captured by the electric field. The plasma air purifying system can reduce microscopic contaminants and dust. This filter removes house mites, micro dust, and pet fur.



LG Skew Fan

Tilting the fan blades by 15° reduces the air surface pressure on the fan, resulting in reduced peak air noise.



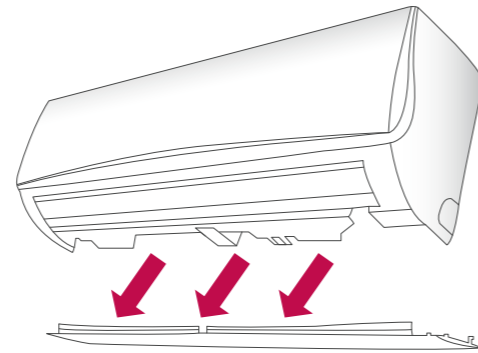
When the fan rotates, the stabiliser and the fan blade are in parallel (= the contact of lines)
 → Instantaneous pressure change generates noise.

When the fan rotates, the stabiliser and the fan blade are not in parallel (= the contact of points)
 → Instantaneous pressure change is decreased, reducing fan noise.

WALL MOUNTED SPLIT

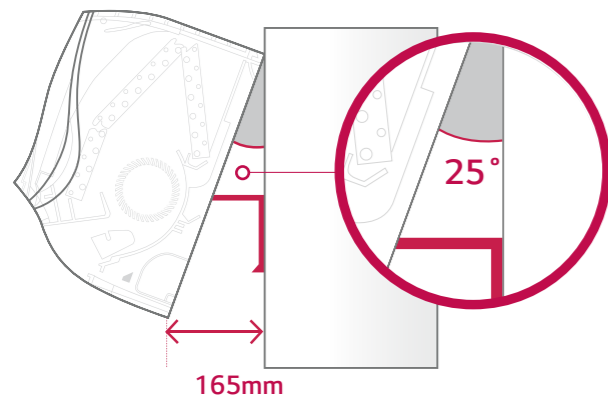
Detachable Bottom Cover

Due to the structure of the unit, the detachable bottom cover can be removed for easier installation.



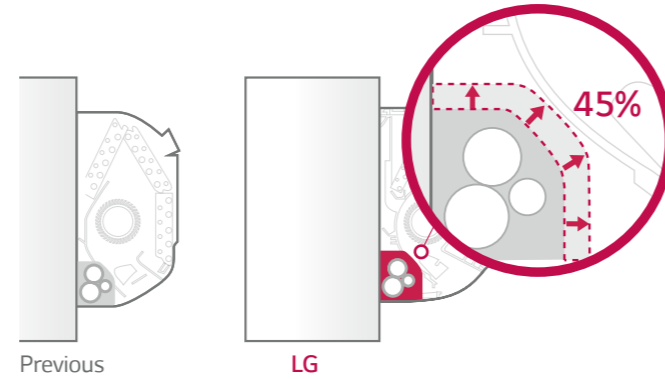
Installation Support Clip

A support clip creates space between the wall and the unit for easier installation.



Wider Piping Space

The piping space is up to 45% wider than previous models for easier installation. The piping space is wider than many products currently on the market.



Variety of Indoor Units

Capacity (kW)	2.1	2.6	3.5	5.3	7.0
Wall Mounted Standard	MS07AH1	MS09AH1	MS12AH1	MS18AH1	MS24AH1
ART COOL Mirror	NHXM20S2A1	NHXM30S2A1	NHXM40S2A1	NHXM50S2A1	NHXM70S2A1
ART COOL Gallery		MA09AH-NF1	MA12AH-NF1		

Specifications

Indoor Unit				MS07AH1	MS09AH1	MS12AH1	MS18AH1	MS24AH1
Capacity	Cooling/Heating	Nom	kW	2.1/2.3	2.6/2.9	3.5/3.9	5.3/5.8	6.7/7.5
Running Current	Cooling/Heating	Nom	A	0.1	0.2	0.2	0.3	0.3
Power Supply			ø/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
			High/Medium/Low	m ³ /min	8.1/6.9/6.3	7.0/6.5/6.0	9.5/8.0/6.5	16.2/14.2/12.3
Air Flow Rate			I/S	135/115/105	117/108/100	158/150/142	270/237/205	340/283/220
Sound Pressure	Cooling	High/Medium/Low	dBA	36/30/27	34/31/27	39/36/31	37/33/28	42/39/36
Dehumidification Rate			l/h	0.9	1.1	1.2	1.9	2.6
Dimensions	Body	WxHxD	mm	756×270×190	895×289×215	895×289×215	1,030×325×255	1,030×325×255
Net Weight	Body		kg	7.2	9.0	9.0	13.0	13.0
Piping Connection	Liquid		mm(inch)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)
	Gas		mm(inch)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 12.7 (1/2)	ø 12.7 (1/2)

Indoor Unit				NHXM20S2A1	NHXM30S2A1	NHXM40S2A1	NHXM50S2A1	NHXM70S2A1
Capacity	Cooling/Heating	Nom	kW	2.1/2.3	2.6/2.9	3.5/3.9	5.3/5.8	6.7/7.5
Running Current	Cooling/Heating	Nom	A	0.1	0.2	0.2	0.3	0.3
Power Supply			ø/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
			High/Medium/Low	m ³ /min	5.6/5.0/4.6	7.0/6.5/6.0	9.5/8.0/6.5	16.2/14.2/12.3
Air Flow Rate			I/S	93/83/77	117/108/100	158/133/108	270/237/205	340/283/220
Sound Pressure	Cooling	High/Medium/Low	dBA	33/30/26	34/31/27	39/36/31	37/33/28	42/39/36
Dehumidification Rate			l/h	0.9	1.1	1.2	1.9	2.6
Dimensions	Body	WxHxD	mm	895×289×205	895×289×205	895×289×205	1,030×325×245	1,030×325×245
Net Weight	Body		kg	10.2	10.2	10.2	14.2	14.2
Piping Connection	Liquid		mm(inch)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)
	Gas		mm(inch)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 12.7 (1/2)	ø 12.7 (1/2)

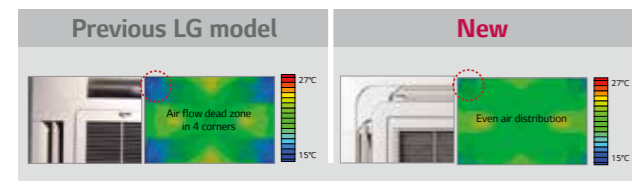
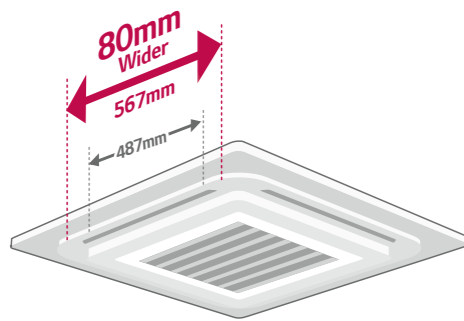
Indoor Unit				MA09AH-NF1	MA12AH-NF1
Capacity	Cooling/Heating	Nom	kW	2.64 / 2.93	3.52 / 3.87
Running Current	Cooling/Heating	Nom	A	0.08	0.08
Power Supply			ø/V/Hz	1/220-240/50	1/220-240/50
			High/Medium/Low	m ³ /min	7.7/5.9/4.4
Air Flow Rate			I/S	128/98/73	148/122/93
Sound Pressure	Cooling	High/Medium/Low	dBA	38/32/27	44/38/32
Dehumidification Rate			l/h	1.2	1.4
Dimensions	Body	WxHxD	mm	600×600×146	600×600×146
Net Weight	Body		kg	15.0	15.0
Piping Connection	Liquid		mm(inch)	ø 6.35(1/4)	ø 6.35(1/4)
	Gas		mm(inch)	ø 9.52(3/8)	ø 9.52(3/8)

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

CEILING CASSETTE

Wide Air Flow

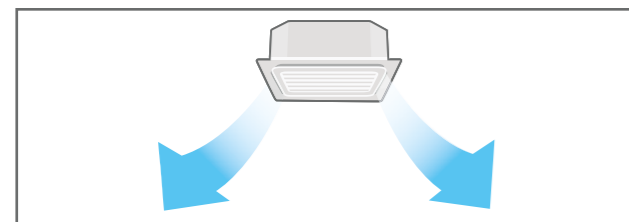
Improved vanes reduce the curved area and provide better air and temperature distribution.



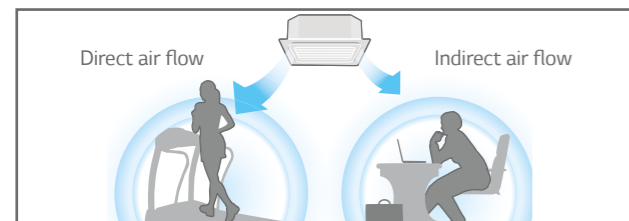
Independent Vane Control

The Independent Vane Operation feature uses separate motors, making it possible to control all four vanes independently.

All vane operation



Independent Vane Control

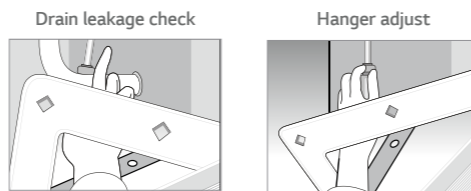
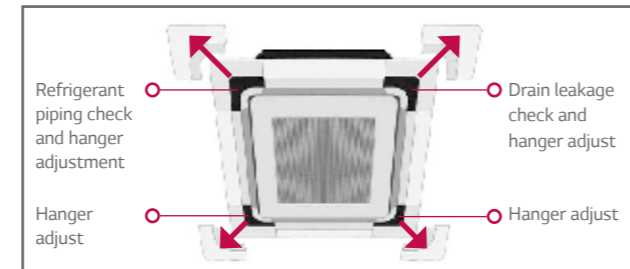


* Wired remote controller PQRCVSL0(QW) required

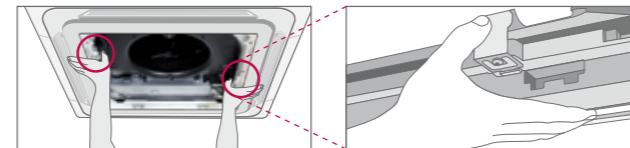
Convenient Panel Installation

The detachable corner design makes it easy to adjust the hanger during installation and to check for leakages in the drain connection pipe.

Detachable Corner Design

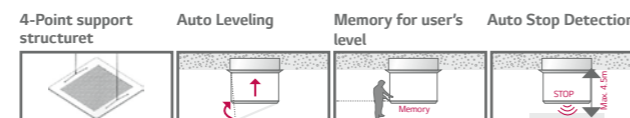


It is easy to install the panel to the body, using the button type panel design.



Auto Elevation Grille (PTEGM0)

Easy filter cleaning with elevation grill



* Operating with wired remote controller PQRCVSL0(QW) and wireless remote controller included in PTEGM0.

* Excludes NHXM40C4A1 / NHXM50C4A1

* Applied to cassette panel PT-UMC1

Variety of indoor units

Capacity (kW)	2.6	3.5	5.3	7.0
1-Way Cassette Type	NHXM30C1A1	NHXM40C1A1		
4-Way Cassette Type		NHXM40C4A1	NHXM50C4A1	NHXM70C4A1

Specifications

Indoor Unit				NHXM30C1A1	NHXM40C1A1
Capacity	Cooling/Heating	Nom	kW	2.6/2.9	3.5/3.9
Running Current	Cooling/Heating	Nom	A	0.2	0.2
Power Supply			ø/V/Hz	1/220-240/50	1/220-240/50
Air Flow Rate		High/Medium/Low	m ³ /min	7.5/7.3/6.8	8.1/7.4/7.0
			l/s	125/122/113	135/123/117
Sound Pressure	Cooling	High/Medium/Low	dBA	36/34/32	37/36/33
Dehumidification Rate			l/h	1.1	1.2
Dimensions	Body	WxHxD	mm	860×132×450	860×132×450
Net Weight	Body		kg	13.5	13.5
Piping Connection	Liquid		mm(inch)	ø 6.35 (1/4)	ø 6.35 (1/4)
	Gas		mm(inch)	ø 9.52 (3/8)	ø 9.52 (3/8)
Decoration Panel	Model			PT-UUC1	PT-UUC1
	Color			Morning Fog	Morning Fog
	Dimensions	WxHxD	mm	1,100×34×500	1,100×34×500
	Weight		kg	4.4	4.4

Indoor Unit				NHXM40C4A1	NHXM50C4A1	NHXM70C4A1
Capacity	Cooling/Heating	Nom	kW	3.5/3.9	5.3 /5.8	6.7/7.5
Running Current	Cooling/Heating	Nom	A	0.4	0.4	0.6
Power Supply			ø/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50
Air Flow Rate		High/Medium/Low	m ³ /min	9.5/8.0/7.0	13.0/12.0/11.0	17.0/15.0/13.0
			l/s	158/133/117	217/200/183	283/250/217
Sound Pressure	Cooling	High/Medium/Low	dBA	38/35/32	41/39/36	38/36/34
Dehumidification Rate			l/h	1.7	2.1	2.4
Dimensions	Body	WxHxD	mm	570×214×570	570×256×570	840×204×840
Net Weight	Body		kg	14.0	15.5	20.5
Piping Connection	Liquid		mm(inch)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)
	Gas		mm(inch)	ø 9.52 (3/8)	ø 12.7 (1/2)	ø 12.7 (1/2)
Decoration Panel	Model			PT-UQC	PT-UQC	PT-UMC1
	Color			Morning Fog	Morning Fog	Morning Fog
	Dimensions	WxHxD	mm	700×22×700	700×22×700	950×25×950
	Weight		kg	3.0	3.0	5.0

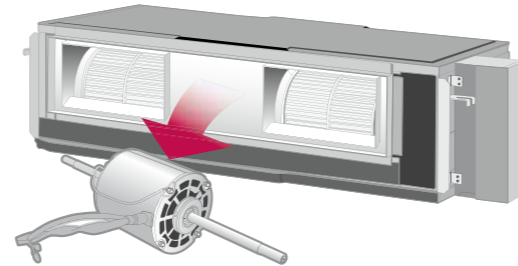
Note : Due to our policy of innovation some specifications may change without notification.

CEILING CONCEALED DUCT

E.S.P: External Static Pressure

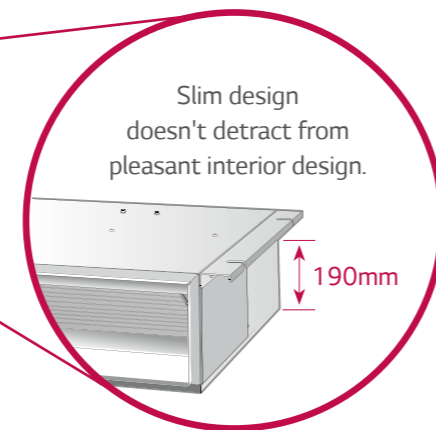
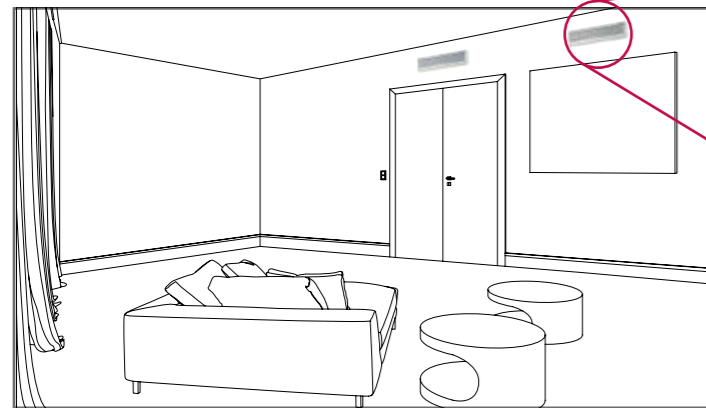


EZ Tuning ensures that the air conditioning system operates at its specified performance regardless of changes in ESP (External Static Pressure) by allowing the adjustment and control of fan speed at installation. This results in being able to obtain and maintain the required air flow rate.



Slim Duct

The LG slim ducted fan coil unit are a good solution for apartments or hotel rooms with narrow ceiling space with a height of 190mm for 2.6kw up to 7.0kw. A drain pump is fitted as standard to drain condensate water out where drain gradient is insufficient.



Drain Pump

An auxiliary condensate drain pump is available as an option for all LG ducted indoor units. This is an ideal solution where drain fall is limited or unavailable. This will lift water up to a 700mm height above the drain outlet.



Variety of indoor units

Capacity (kW)	2.6	3.5	5.3	7.0	8.8	10.6
Low Static Duct	NHXM30D3A0	NHXM40D3A0	NHXM50D3A0	NHXM70D3A0		
High Static Duct			NHXM50D1A1	NHXM70D1A1	NHXM90D1A0	NHXM110D1A0

Specifications

Indoor Unit				NHXM30D3A0	NHXM40D3A0	NHXM50D3A0	NHXM70D3A0
Capacity	Cooling/Heating	Nom	kW	2.6/2.9	3.5/3.9	5.3/5.8	7.0/7.4
Running Current	Cooling/Heating	Nom	A	1.02	1.02	1.6	1.6
Power Supply			ø/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Air Flow Rate		High/Medium/Low	m ³ /min	8.5/7.5/6.5	9.5/8.5/7.5	15.0/13.5/11.5	17.0/15.0/13.5
			I/S	142/125/108	158/142/125	250/225/192	283/250/225
Sound Pressure	Cooling	High/Medium/Low	dBA	31/26/25	33/31/26	34/31/29	36/34/32
Dehumidification Rate			l/h	1.0	1.2	2.0	2.5
Dimensions	Body	WxHxD	mm	820X190X575	820X190X575	1,100X190X575	1,100X190X575
Net Weight	Body		kg	20.5	20.5	26.5	27.0
Piping Connection	Liquid		mm(inch)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)
	Gas		mm(inch)	ø 9.52 (3/8)	ø 9.52 (3/8)	ø 12.7 (1/2)	ø 12.7 (1/2)
External Static Pressure		Min-Max	mmAq(Pa)	0-4 (0-39)	0-4 (0-39)	0-4 (0-39)	0-4 (0-39)

Indoor Unit				NHXM50D1A1	NHXM70D1A1	NHXM90D1A0	NHXM110D1A0
Capacity	Cooling/Heating	Nom	kW	5.3 / 5.8	7.0 / 7.7	8.8/9.7	10.6/11.6
Running Current	Cooling/Heating	Nom	A	1.0	1.1	2.35	2.35
Power Supply			ø/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1/220-240/50
Air Flow Rate		High/Medium/Low	m ³ /min	16.5/14.5/13.0	18.0/16.5/14.0	26.5/23.0/20.0	32.0/29.0/26.0
			I/S	275/242/217	300/275/233	442/383/333	533/483/433
Sound Pressure	Cooling	High/Medium/Low	dBA	36/34/32	36/35/33	40/38/35	42/39/36
Dehumidification Rate			l/h	2.0	2.5	3.3	4.0
Dimensions	Body	WxHxD	mm	882X260X450	882X260X450	1,180X298X450	1,180X298X450
Net Weight	Body		kg	26.0	26.0	38.0	38.0
Piping Connection	Liquid		mm(inch)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)	ø 6.35 (1/4)
	Gas		mm(inch)	ø 12.7 (1/2)	ø 12.7 (1/2)	ø 15.88 (5/8)	ø 15.88 (5/8)
External Static Pressure		Min-Max	mmAq(Pa)	2.5-8 (25-78)	2.5-8 (25-78)	4.0-10 (39-98)	4.0-10 (39-98)

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

ACCESSORIES

Distributor Boxes

PMBD3620, PMBD7220, PMBD3630, PMBD7230, PMBD3640, PMBD3641

Flexible installation using a range of Distributor Boxes.

For	2 Indoors	3 Indoors	4 Indoors
Distributor	PMBD3620 PMBD7220 	PMBD3630 PMBD7230 	PMBD3640 PMBD3641 

Various distributors can make much easier installation for any sites

Features

- Distribution of refrigerant to various indoor units.
- 3 models (2, 3, 4 indoor units)
- Consists of LEVs
- Controlling PCB
- Internally insulated (helps prevent any chances to condensation)
- Flare joints for easy and clean installation
- Compact design (low height)
- Flexible installation



Specifications Distributors Boxes

		2 Indoors		3 Indoors		4 Indoors	
		PMBD3620	PMBD7220	PMBD3630	PMBD7230	PMBD3640	PMBD3641
Connectable Indoor Units	Number of Indoor Units	1-2	1-2	1-3	1-3	1-4	1-4
	Capacity	kW	2.1/2.6/3.5/5.3/7	5.3/7/8.8/10.6	2.1/2.6/3.5/5.3/7	5.3/7/8.8/10.6	2.1/2.6/3.5/5.3/7
Power Supply	øV/Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Power Consumption	H/M/L	W	10	10	10	10	10
Running Current	H/M/L	A	0.05	0.05	0.05	0.05	0.05
Dimensions	WxHxD	inch(mm)	11.9x5.6x9.9 (302x143x252)	11.9x5.6x9.9 (302x143x252)	11.9x5.6x9.9 (302x143x252)	11.9x5.6x9.9 (302x143x252)	11.9x5.6x9.9 (302x143x252)
Net Weight	Indoor Unit	kg	4.8	4.8	4.9	4.9	5.0
Connecting Cable	Direction - Indoor Unit	No.*mm ²	4x0.75 (Includes earth) 4x1.25	4x0.75 (Includes earth) 4x1.25	4x0.75 (Includes earth) 4x1.25	4x0.75 (Includes earth) 4x1.25	4x0.75 (Includes earth) 4x1.25
	Direction - Outdoor Unit	No.*mm ²	4x0.75 (Includes earth) 4x1.25	4x0.75 (Includes earth) 4x1.25	4x0.75 (Includes earth) 4x1.25	4x0.75 (Includes earth) 4x1.25	4x0.75 (Includes earth) 4x1.25
Piping Connection (To Outdoor Unit)	Liquid	inch(mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
	Gas	inch(mm)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)	3/4 (19.05)
Piping Connection (To Indoor Unit)	Liquid	inch(mm)	1/4 (6.35)x2EA	1/4 (6.35)x2EA	1/4 (6.35)x3EA	1/4 (6.35)x3EA	1/4 (6.35)x4EA
	Gas	inch(mm)	3/8 (9.52)x2EA	5/8 (15.88)x2EA	3/8 (9.52)x3EA	1/2 (12.7)x1EA 5/8 (15.88)x2EA	3/8 (9.52)x4EA

Note : 1. Distributor box should be located within 15m run and 10m in elevation from all indoor units.

2. The piping connection must suit the piping sizes of the indoor unit which will be connected. (If need, use the adaptor which is included in the indoor unit)

3. The distribution box should be installed inside the building.

Y Branch and Branch Kits

PMBL5620 (2units)



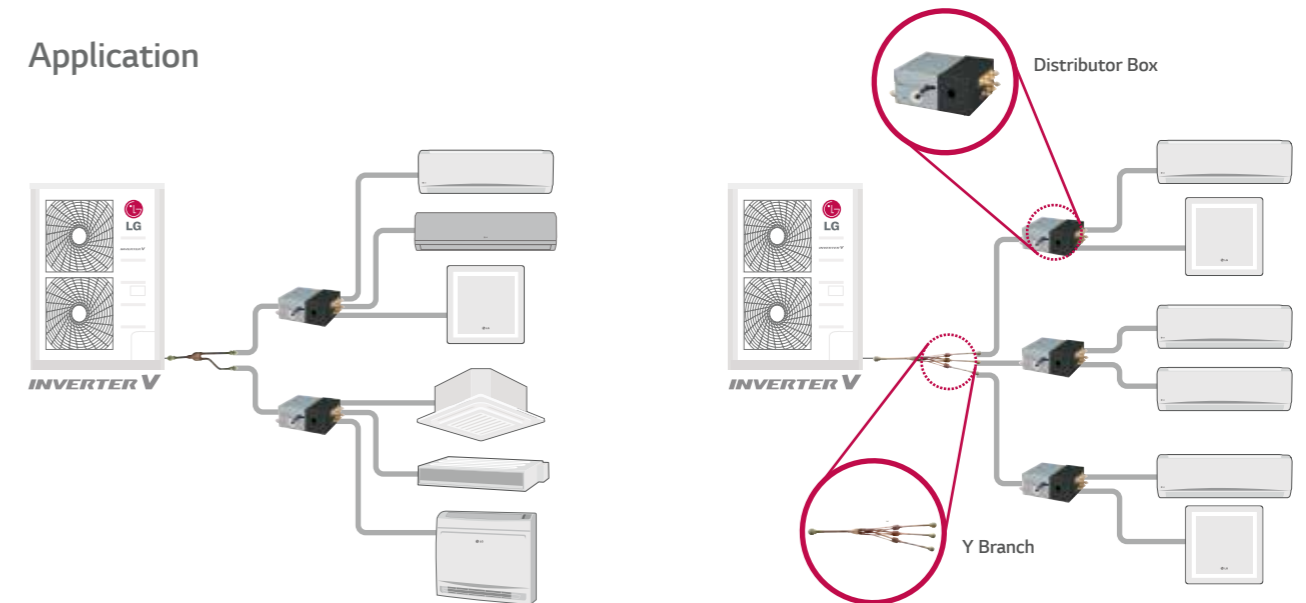
PMBL1203F0 (3units)



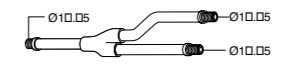
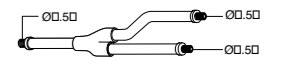
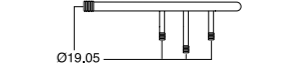
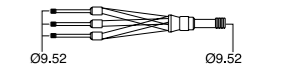
Features

- Y Branch and Branch kits make MULTI FDX installation easier.
- Y Branch and Branch kits for both gas and liquid are provided.
- Insulation material is also provided for covering the branches.

Application



Accessory Model Name

Model Name	No. of BD units	Applicable Model	Specification	
			Gas	Liquid
PMBL5620	2 units	1ø, 3ø		
PMBL1203F0	3 units	1ø, 3ø		

(Unit : mm)

The Total HVAC and Energy Solution Provider

Ever since manufacturing Korea's first homegrown air conditioner in 1968, LG has remained at the forefront of air conditioning innovation. And in 2008, LG became the first company to sell a cumulative total of more than 100 million air conditioners.

Building on its success and technological leadership in the residential air conditioning sector, LG moved into system air conditioning as well. The company's range of

high-performance system air conditioning products provides effective temperature control to large-scale buildings and facilities. Over time, LG has evolved into the total HVAC and energy solution provider, investing in new technologies and adding chillers, VRF systems, and building management systems (BMS) into its comprehensive product portfolio.

Along with a wide range of innovative solutions, LG delivers unrivalled customer service. The company produces top-notch air conditioning professionals at its SAC academies, of which there are more than 100 worldwide. These centers

of excellence provide detailed product workshops and training programs that offer invaluable hands-on experience. LG also provides useful tools for HVAC system engineers and installers, including its timesaving LG Air Conditioner Technical Solution (LATS) software.

Additionally, LG operates several state-of-the-art R&D facilities in various countries. One such facility is the Energy Lab, a purpose-built R&D and testing center in northern France. Helping to keep the company ahead of the competition, the scientists and engineers at the Energy Lab

study the effects of different environmental conditions on LG's products. This in-depth research and analysis enables LG to tailor its solutions to the various environmental demands of individual markets.

With 10 manufacturing plants throughout the world, LG produces in excess of 17 million compressors and 16 million first-class HVAC solutions per year. Combining the best technologies and ideas, LG's high quality products are now enjoyed by consumers in over 100 countries.

