

LG HVAC SOLUTION





LG Electronics AE Company, Commercial Air Conditioning

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About LG VRF Technology

Variable Refrigerant Flow is a technology introduced as a system to minimize efficiency losses and provide sustainable energy benefits. LG VRF systems are engineered to save on the cost of ducts, distribution fans, water pumps and water piping. VRF systems have a lower life cycle cost of any system on the market today.

Why LG VRF?

The benefits are numerous; modern style, mirror units for interior designers, less piping for installers and energy efficiency for owners. LG has low sound levels, so units are quiet and can be installed where sound is an issue. LG manufactured inverter compressor optimizes system energy efficiency.

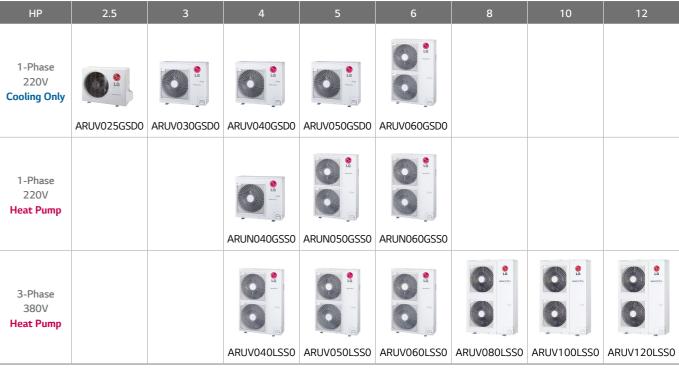
Inverter Technology

With a compressor optimized around the latest inverter technology, the LG Multi V S system precisely matches the load. This helps prevent constant cycling and results in tight temperature control, superior dehumidification, and optimized efficiency. Occupants stay comfortable while reducing utility costs.

Multi V S Technology

This product line is LG's premiere VRF system. Multi V S is designed to provide the owner the benefits of VRF - lower operational costs, minimal or no duct work to install, tenant comfort with individual zoning, efficiency superior to other technologies — while maintaining architectural integrity. The benefit of zoning for heating or cooling is that it provides a level of comfort for all occupants.

PRODUCT LINE-UP

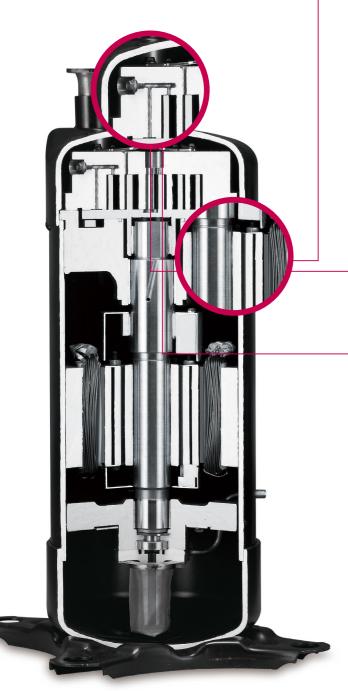




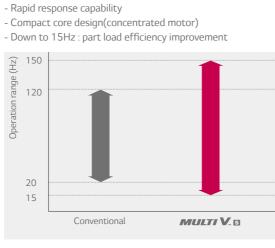
EXCEPTIONAL EFFICIENCY

LG's 4th Generation Inverter Compressor

Multi V S has high efficiency inverter scroll compressor with frequency range 15Hz~150Hz. * 8-12HP Heat pump models



-• World Best Compressor Speed 150Hz



Inverter Scroll Compressor

Inverter SCROLL compressor of high efficiency
Low vibration / Low noise

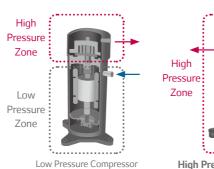
• 6 By-pass Valve

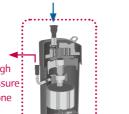
Compressor reliability is maximized with 6 By-pass Valve - Prevent compressor damage due to excessively compressed refrigerant more efficiently than 4 by-pass valve



High Pressure Compressor

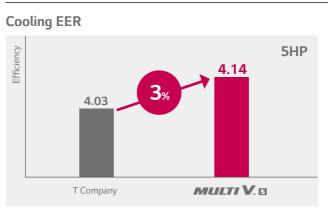
Viscosity of oil is secured due to high temperature and pressure.Do not need oil pump. (Efficiency Increases)



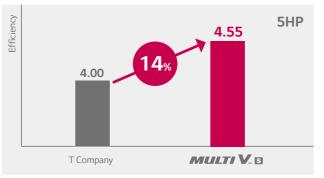


High Pressure Compressor

High Efficiency

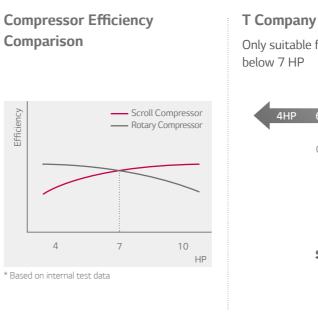


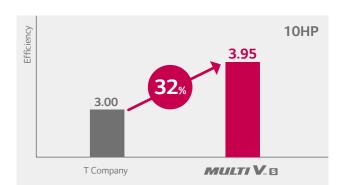
Heating COP

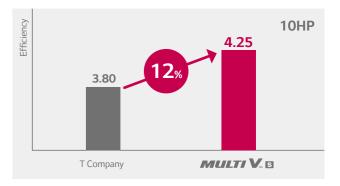


Reliable Inverter Compressor

Multi V S Inverter compressors are highly efficient and reliable for all commercial & residential applications.







Only suitable for small capacity

High reliability and efficiency at all capacity - 2.5 ~ 6HP : Rotary Compressor

- 8 ~ 12HP : Scroll Compressor



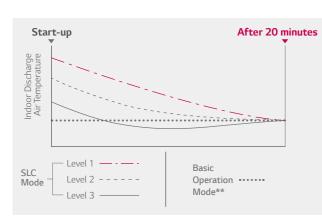
EXCEPTIONAL EFFICIENCY

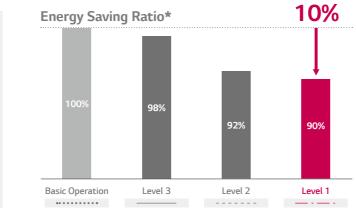
Smart Load Control

To save energy, Multi V S changes indoor discharge air temperature continuously according to load. * 4-12HP Heat pump models

Start-up Operation	Auto-reactive Operation	• • •	
After 20 minutes			

Operates for 20 minutes after Start-up. 3 levels of SLC operation can be set to save energy. (if not, can run in Basic Operation mode)

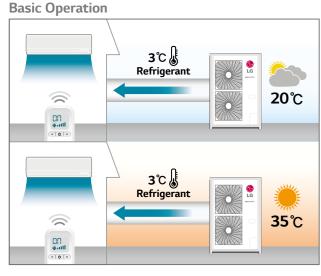




*Energy Saving Ratio : Ratio of energy saved, compared to 100% power consumption for 30 minutes (LG internal test result) **Basic Operation Mode : Indoor discharge air temperature is constant regardless of variable heat load, so operating efficiency is not relatively high

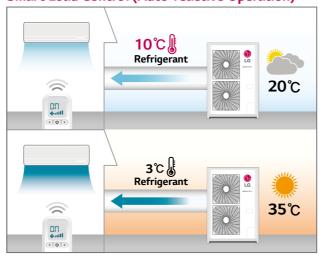
Auto-reactive Operation

Automatically changes discharge air temperature according to the simultaneous loads. (OAT, IAT & Target temp.)



- Variable : Indoor Air Temperature

Smart Load Control (Auto-reactive Operation)



Variable : Indoor Air Temperature, Setting Temperature
/ Outdoor Air Temperature
Accurate operation control considering various circumstances.

Maximum Energy Saving 13%

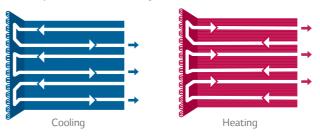
Optimal Heat Exchanger Circuit

Variable Heat Exchanger Circuit is the world first technology which intelligently selects the optimal path for both heating and cooling (Efficiency up to 5%). * 4~12HP Heat pump models

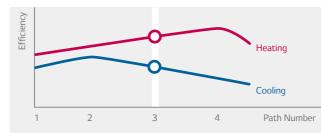
Conventional

The number and direction of path are fixed independent of temperature and operation mode.

A fixed path limits efficiency.

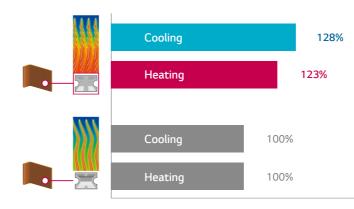


Compromising efficiency for each operation



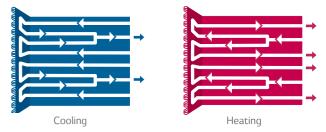
Heat Exchanger with Wide Louver Plus Fin

Improved heat exchanger efficiency of up to 28%

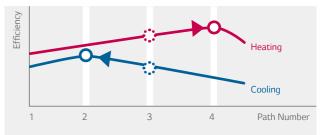


MULTI V. S

Variable Heat Exchanger Circuit adjusts the path number to match temperatures and operation modes, thereby contributing to an increase in energy efficiency.

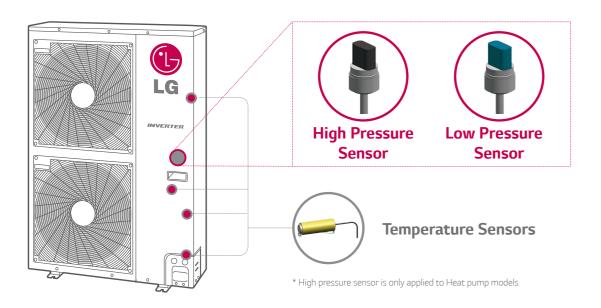


Maximizing efficiency for all operations





HIGH OPERATION RELIABILITY



High Reliability with Pressure Control

Conventional Temperature Control



Calculates target pressure according to indoor/outdoor temperature, desired temperature and piping length.

Temperature + Pressure Control

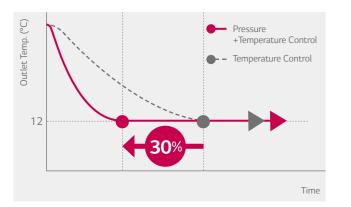


Senses and controls pressure directly using pressure sensor for faster and more exact response to load variation

* High pressure sensor is only applied to Heat pump models

Quick Operating Response

Pressure control takes up to 30% less time in cooling mode, to reach the desired temperature.





The indoor environment can be made more comfortable, faster and more accurately. *Based on internal test data

High Reliability of Refrigerant Cycle

Multi V S improved reliability through an excellent technique of Oil separator / Accumulator / Sub-cooling.

1. Cyclone Centrifuges Oil Separator

- Highly reliable and efficient oil separation by centrifugal separation using cyclone methods
- separation using cyclone methods
- High collection efficiency as well as outstanding resistance
- to high temperature and pressure

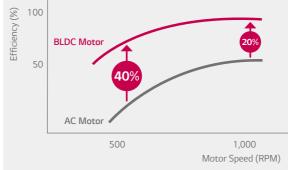


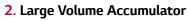


3. BLDC Fan Motor









 Improved reliability by adopting the large volume accumulator
(138% volume up compared to conventional)
Prevents the liquid refrigerant entering the compressor suction



Accumulator

4. Double Sub-cool Interchanger

 Reliability is enhanced by minimizing pressure drop due to high efficiency spiral structure and 2 times larger size
>Long pipe is possible (up to 175 m)

and high elevation (up to 50 m)





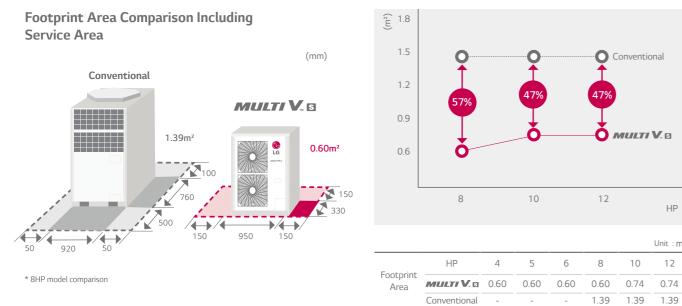
Double Sub-cool Interchanger



DESIGN WITHOUT LIMIT

Compact Design

MULTI V S provides the optimal solution for small offices and shops.



1.39 1.39

* Source : Data Book

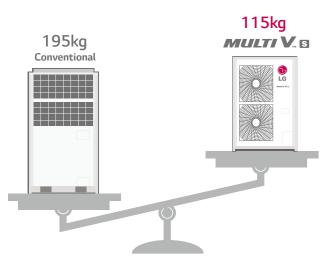
ΗP

Unit : m²

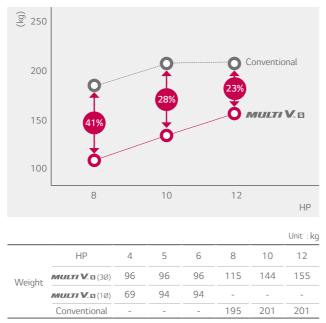
12

41% Lighter weight than conventional model.

- Less pressure on the roof - Easier installation



* 8HP model comparison



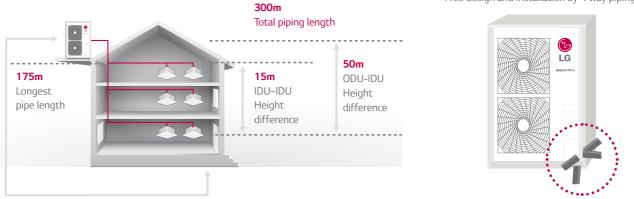
* Source : Data Book

Expanded Piping Capabilities

MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and providing more efficient design.

Piping Capabilities

* 4~12HP Heat pump models



* For Cooling only models

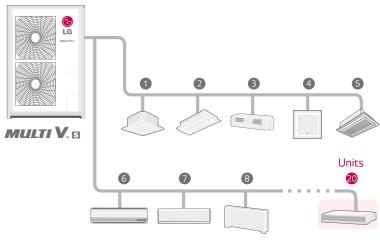
- 100m Total piping length - 50m Longest piping length

- 15m ODU-IDU height difference - 7.5m IDU-IDU height difference

Max.20 Indoor Units Connectable (Based on 12HP)

Maximum of 20 units can be connected to a single outdoor unit with 130% indoor unit combination. (Based on 12HP)

- Connectable indoor units is up to 20 units
- maximum.
- Indoor units combination range : 50 ~ 130%
- 4HP : Max. 6 indoor units
- 5HP : Max. 8 indoor units
- 6HP : Max. 9 indoor units
- 8HP : Max. 13 indoor units
- 10HP : Max. 16 indoor units
- 12HP : Max. 20 indoor units



4 Way Piping

- Free design and installation by 4 way piping.

* Based on 12HP model

OUTSTANDING PERFORMANCE

Fan Technology and E.S.P. Control

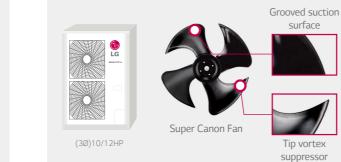
For efficient operation, newly developed fan blows higher air volume and has more high static pressure, also operating noise is decreased.

Fan Technology

The new axial fan has a mogul trailing edge, narrow hub blade and reverse hub, this provides a high efficiency, low noise, wide fan, as well as improving the air flow rate.

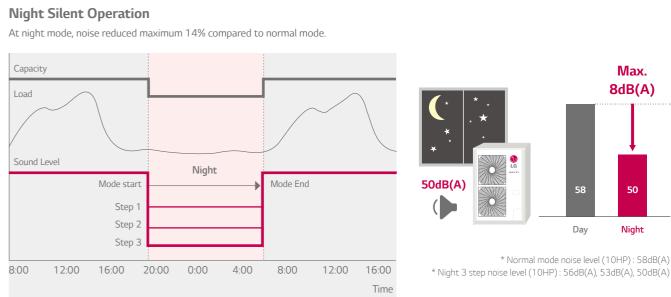


Super cannon fan increases the air volume in 50 CMM and the noise level is decreased by 4 dB(A).



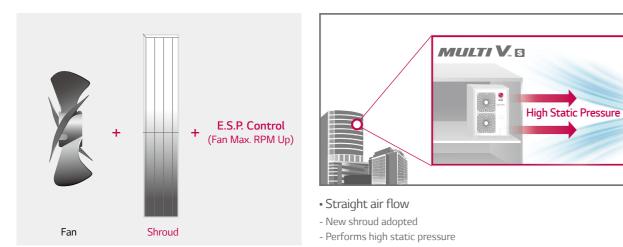
Silence

Low noise operation at night is possible thanks to inverter technology.



High E.S.P. Technology

Flow of air has straightness due to fan shroud and E.S.P. control even in high-rise building. * 10~12HP Heat pump models

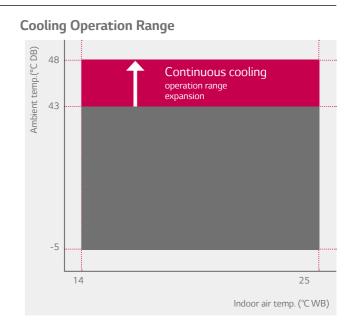


* E.S.P : External Static Pressure

Wide Operation Range

Thanks in large part to LG's advanced inverter compressor and unique heat exchanger design,

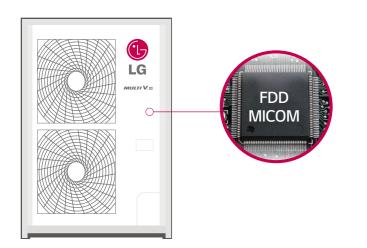
MULTI V S is able to provide reliable operation even when the outside temperature soars to 48°C, exceeding the previous norm limit by 5 degrees.



CYCLE & SERVICE OPTIMIZATION

Upgraded Fault Detection and Diagnosis

The inclusion of FDD elements - Auto start-up, auto refrigerant check, black box functionality, simultaneous evaluation, and auto refrigerant collection, provides the optimal solution for user reliability and ease of maintenance. * Heat pump models



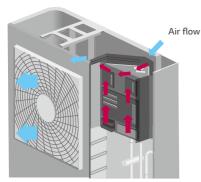
- Auto commissioning Mode
- Auto Refrigerant Collection
- Auto evaluation of refrigerant amount and charging
- Able to access LGMV (LG Monitoring View) by smartphone
- Black box function
- Piping & wiring error check-up

Self Cooled Control

Multi V S has heat exchanger structure and diagonal shape of control box.(Efficiency up to 3%)

Control Box Cooling System

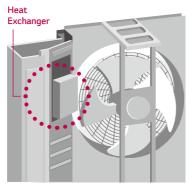
- Feature of control box is diagonal shape, it makes naturally air flowing(directly pulling air back of the fan)
- Reduced heating / cooling efficiency loss



Front view

Heat Exchanger Technology

- Heat exchanger structure
- Optimal air flow by aluminum heat exchanger on control box.



Rear view

Smartphone Control

With mobile application it is convenient to manage various indoor units. * Heat pump models

Wireless Control (Optional)

Easy control & monitoring through internet



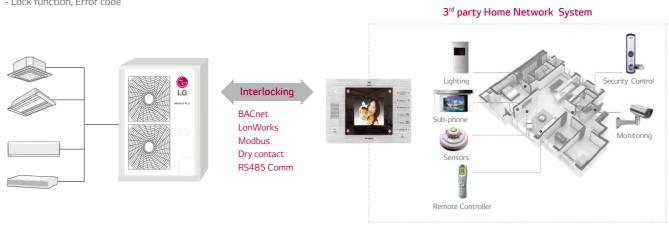
* In order to use this application, please do legal review (gathering private information) and get the wireless standard in each country. (Internet Bridge requires additional charges)

Interlocking with Home Network System

Interlocking with home network system enables various application. Depending on building size and usage, various communication method can be given.

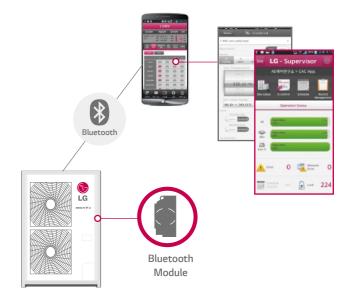
Compatibility to Home Network System

- Basic control (On/Off, Mode, Setting Temp, Fan speed)
- Lock function, Error code



Smartphone based LGMV (Optional)

Cycle monitoring and control



MULTI V. S

Cooling Only

Cooling Only



HP			2.5	3
Model Name			ARUV025GSD0	ARUV030GSD0
		kW	7.2	9.2
Capacity (Rated)	Cooling	kcal/h	6,191	7,911
	5	Btu/h	24,600	31,400
Input (Rated)	Cooling	kW	1.80	2.10
COP	Cooling	COP	4.00	4.38
Casing Color			Warm Gray	Warm Gray
Heat Exchanger			Gold fin	Gold fin
	Туре		Hermetic Motor Compressor	Hermetic Motor Compressor
	Piston Displacement	cm³/rev	18	24
	Number of Revolution	rev/min	6,000	6,600
Compressor	Motor Output x Number	W x No.	1,500 x 1	2,137 x 1
	Starting Method		DC Inverter Starting	DC Inverter Starting
	Oil Type		FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	CC	670	900
	Туре		Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W	85.4 x 1	124.0 x 1
_	Air Flow Rate(High)	m³/min	44	60
Fan		ft³/min	1,553	2,118
	Drive		DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side
	Liquid	mm(inch)	9.52(3/8)	9.52(3/8)
Piping Connections	Gas	mm(inch)	15.88(5/8)	15.88(5/8)
		mm	870 x 655 x 320	950 x 834 x 330
Dimensions(W x H x D)		inch	34-1/4 × 25-25/32 × 12-19/32	37-13/32 × 32-27/32 × 13
NI - 187 1		kg	45	59
Net Weight		lbs	99.2	130
Sound Press Level	Cooling	dB(A)	50	50
Sound Power Level		dB(A)	-	-
Protection Devices	Comperssor/ Fan	-	Over-heat protection / Far	driver overload protector
Protection Devices	Inverter	-	Over-heat protection, C	Over-current protection
Communication Cable		No.xmm ² (VCTF-SB)	1.0~1.5 × 2	1.0~1.5 × 2
	Refrigerant name		R410A	R410A
Refrigerant	Procharged Amount	kg	1.0	1.4
Reingerant	Precharged Amount	lbs	2.2	3.1
	Control		Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V,Ø,Hz	1, 220-240, 50	1, 220-240, 50
Number of maximum co	nnectable indoor units		3	5
Cooling Operation Range	e (°C, DB)		-5 ~	48

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

HP			4	5	6
Model Name		ARUV040GSD0	ARUV050GSD0	ARUV060GSD0	
		kW	11	14.5	17
Capacity (Rated)	Cooling	kcal/h	9,458	12,470	14,620
	J	Btu/h	37,600	49,500	58,000
Input (Rated)	Cooling	kW	2.75	3.85	4.00
COP	Coolina	COP	4.00	3.77	4.25
Casing Color			Warm Gray	Warm Gray	Warm Gray
Heat Exchanger			Gold fin	Gold fin	Gold fin
2	Туре		Hermetic Motor Compressor	Hermetic Motor Compressor	Hermetic Motor Compressor
	Piston Displacement	cm³/rev	24	44.2	44.2
	Number of Revolution	rev/min	6,600	6,000	6,000
Compressor	Motor Output x Number	W x No.	2,137 x 1	4,000 x 1	4,000 x 1
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	CC	900	1,300	1,300
	Туре		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W	124.0 x 1	124.0 x 1	85.4 x 2
_	Air Flow Rate(High)	m³/min	60	60	90
Fan		ft³/min	2,118	2,118	3,178
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
	Liquid	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)
Piping Connections	Gas	mm(inch)	15.88(5/8)	15.88(5/8)	19.05(3/4)
D: : (14/ 11 D)		mm	950 x 834 x 330	950 x 834 x 330	950 x 1,170 x 330
Dimensions(W x H x D)		inch	37-13/32 × 32-27/32 × 13	37-13/32 × 32-27/32 × 13	37-13/32 × 46-1/16 × 13
NL - 107 - 1 -		kg	59	66	79
Net Weight		lbs	130	146	174
Sound Press Level	Cooling	dB(A)	50	51	52
Sound Power Level		dB(A)	-	-	-
Protection Devices	Comperssor/ Fan	-	Over-heat	protection / Fan driver overload	d protector
Protection Devices	Inverter	-	Over-h	eat protection, Over-current pro	otection
Communication Cable		No.xmm ² (VCTF-SB)	1.0~1.5 × 2	1.0~1.5 × 2	1.0~1.5 × 2
	Refrigerant name		R410A	R410A	R410A
Refrigerant	Precharged Amount	kg	1.4	1.4	2.3
Reingerant	Frechargeu Amount	lbs	3.1	3.1	5.1
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V , Ø , Hz	1, 220-240, 50	1, 220-240, 50	1, 220-240, 50
Number of maximum connectable indoor units		6	8	9	
Cooling Operation Range	e (°C, DB)			-5 ~ 48	

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

(1Ø)6HP



MULTI V. S

Heat Pump

(1Ø)5/6 HP LG (1Ø)4HP LG

HP			4	5	6
Model Name		ARUN040GSS0	ARUN050GSS0	ARUN060GSS0	
		kW	12.1	14.0	15.5
	Cooling	kcal/h	10,400	12,040	13,330
	J	Btu/h	41,200	47,800	52,900
Capacity (Rated)		kW	12.5	16.0	18.0
	Heating	kcal/h	10,750	13,760	15,480
	. leating	Btu/h	42,700	54,600	61,400
	Cooling	kW	2.95	3.38	3.96
Input (Rated)	Heating	kW	2.91	3.52	4.09
	Cooling	COP	4.10	4.14	3.91
COP	Heating	COP	4.10	4.14	4.40
Power Factor	Rated	COP	4.30	4.55	4.40
	Rated	-			
Casing Color			Warm Gray	Warm Gray	Warm Gray
Heat Exchanger			Gold fin	Gold fin	Gold fin
	Туре		Hermetic Motor Compressor	Hermetic Motor Compressor	Hermetic Motor Compresso
	Piston Displacement	cm³/rev	44.2	44.2	44.2
	Number of Revolution	rev/min	3,600	3,600	3,600
Compressor	Motor Output x Number	W x No.	4,000 x 1	4,000 x 1	4,000 x 1
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	СС	1,300	1,300	1,300
	Туре		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W	124 x 1	124 x 2	124 x 2
_	Air Flow Rate(High)	m³/min	60	110	110
Fan		ft³/min	2,119	3,885	3,885
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
	Liquid	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)
Piping Connections	Gas	mm(inch)	15.88(5/8)	15.88(5/8)	19.05(3/4)
	003	mm	950 × 834 × 330	950 × 1380 × 330	950 × 1380 × 330
Dimensions(W x H x D)		inch	37.4 × 32.8 × 13.0	37.4 × 54.3 × 13.0	37.4 × 54.3 × 13.0
		kg	69	94	94
Net Weight		lbs	152	207	207
	Cooling	dB(A)	50.0	51.0	52.0
Sound Press Level					
	Heating	dB(A)	52.0	53.0	54.0
Sound Power Level		dB(A)	62.0	66.0	67.0
	High pressure protection	-		pressure sensor, High pressure s	
Protection Devices	Comperssor/ Fan	-		protection / Fan driver overload	
	Inverter	-	Over-heat protection, Over-current protection		
Communication Cable		No.xmm ² (VCTF-SB)	2C × 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
	Refrigerant name		R410A	R410A	R410A
Refrigerant	Precharged Amount	kg	1.8	3	3
Reingerant		lbs	4	6.6	6.6
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V,Ø,Hz	220, 1, 60	220, 1, 60	220, 1, 60
Number of maximum co	nnectable indoor units		6	8	9
Cooling Operation Range	e (°C, DB)			-5 ~ 48	
Heating Operation Rang				-20 ~ 18	

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

Heat Pump

HP			4	5	6
Model Name			ARUN040LSS0	ARUN050LSS0	ARUN060LSS0
		kW	12.1	14.0	15.5
	Cooling	kcal/h	10,400	12,040	13,330
	coomig	Btu/h	41,200	47,800	52,900
Capacity (Rated)		kW	12.5	16.0	18.0
	Heating	kcal/h	10,750	13,760	15,480
	ricating	Btu/h	42,700	54,600	61,400
	Cooling	kW	2.80	3.38	3.96
nput (Rated)	Heating	kW	2.75	3.52	4.09
	Cooling	COP	4.31	4.14	3.91
COP	Heating	COP	4.55	4.55	4.40
Power Factor	Rated	-	4.55	4.55	4.40
	Raleu	-	Warm Gray	Warm Gray	Warm Gray
Casing Color			Gold fin	Gold fin	Gold fin
Heat Exchanger	Tues			Hermetic Motor Compressor	
	Type Distan Disale coment	3/	Hermetic Motor Compressor 44.2	44.2	Hermetic Motor Compress 44.2
	Piston Displacement	cm³/rev			
	Number of Revolution	rev/min	3,600	3,600	3,600
Compressor	Motor Output x Number	W x No.	4,000 x 1	4,000 x 1	4,000 x 1
	Starting Method		DC Inverter Starting	DC Inverter Starting	DC Inverter Starting
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	CC	1,300	1,300	1,300
	Туре		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W	124 x 2	124 x 2	124 x 2
an	Air Flow Rate(High)	m³/min	110	110	110
an		ft³/min	3,885	3,885	3,885
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
	Liquid	mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)
Piping Connections	Gas	mm(inch)	15.88(5/8)	15.88(5/8)	19.05(3/4)
		mm	950 × 1380 × 330	950 × 1380 × 330	950 × 1380 × 330
Dimensions(W x H x D)		inch	37.4 × 54.3 × 13.0	37.4 × 54.3 × 13.0	37.4 × 54.3 × 13.0
		kg	96	96	96
Net Weight		lbs	212	212	212
	Cooling	dB(A)	50.0	51.0	52.0
Sound Press Level	Heating	dB(A)	52.0	53.0	54.0
Sound Power Level		dB(A)	63.0	66.0	67.0
	High pressure protection	-	Hiah	pressure sensor, High pressure s	switch
Protection Devices	Comperssor/ Fan	_		protection / Fan driver overload	
Totection Devices	Inverter			eat protection, Over-current pro	
Communication Cable	IIIVerter	No.xmm ² (VCTF-SB)			2C x 1.0 ~ 1.5
	Refrigerant name	140.Amin (VC11-3D)	R410A	R410A	R410A
Refrigerant	Reingerant name	ka	3	3	3
	Precharged Amount	kg Ibc	6.6	6.6	6.6
	Castral	lbs	Electronic Expansion Valve	0.0 Electronic Expansion Valve	0.0 Electronic Expansion Valve
	Control	N 6 11		· · ·	•
Power Supply	and the first of t	V,Ø,Hz	380, 3, 60	380, 3, 60	380, 3, 60
Number of maximum connectable indoor units		6 8 9			
Cooling Operation Range (°C, DB)		-5~48			
Heating Operation Rang	e (°C, WB)			-20 ~ 18	

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

(3Ø)4/5/6HP



Heat Pump



HP			8	10	12
Model Name			ARUN080LSS0	ARUN100LSS0	ARUN120LSS0
		kW	22.4	28.0	33.6
	Cooling	kcal/h	19,300	24,100	28,900
	cooking	Btu/h	76,400	95,900	114,700
Capacity (Rated)		kW	25.2	31.5	37.8
	Heating	kcal/h	21,700	27,100	32,500
	ricacing	Btu/h	86,000	107,500	129,000
	Cooling	kW	5.89	7.09	9.08
Input (Rated)	Heating	kW	6.00	7.41	9.95
	Cooling	COP	3.80	3.95	3.70
СОР		СОР	4.20	4.25	3.80
Power Factor	Heating	CUP	0.90	0.90	0.93
	Rated	-		Warm Gray	
Casing Color			Warm Gray	,	Warm Gray
Heat Exchanger			Gold fin	Gold fin	Gold fin
	Туре	24	Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scro
	Piston Displacement	cm ³ /rev	43.8	62.1	62.1
	Number of Revolution	rev/min	3,600	3,600	3,600
Compressor	Motor Output x Number	W x No.	4,200 x 1	5,300 x 1	6,800 x 1
	Starting Method		Direct On Line	Direct On Line	Direct On Line
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Oil Charge	CC	1,200	1,400	1,400
	Туре		Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W	124 x 2	250 x 2	250 x 2
Fan	Air Flow Rate(High)	m³/min	140	190	190
Fan		ft³/min	4,944	6,707	6,710
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
	Liquid	mm(inch)	9.52(3/8)	9.52(3/8)	12.7(1/2)
Piping Connections	Gas	mm(inch)	19.05(3/4)	22.2(7/8)	28.58(9/8)
		mm	(950 × 1,380 × 330) × 1	(1,090 x 1,625 x 380) x 1	(1,090 x 1,625 x 380) x
Dimensions(W x H x D)		inch	(37.4 × 54.3 × 13.0) × 1	(42.9 × 64.0 × 15.0) × 1	(42.9 × 64.0 × 15.0) × 1
		kg	115 x 1	144 x 1	157 x 1
Net Weight		lbs	254 x 1	317 x 1	346 x 1
	Cooling	dB(A)	59	60	62
Sound Press Level	Heating	dB(A)	59	60	62
Sound Power Level	ricating	dB(A)	68	69	73
Sound I Swell Level		db(rt)			
	High pressure protection	-	High	pressure sensor, High pressure s	Switch
Protection Devices	Comperssor/ Fan	-	Over-heat protection (S/W) / Fai	n driver overload protector (S/W)	Over-heat protection / Fan driver overload protect
	Inverter	ter - Over-heat protection (S/W), Over-current protection (H/W, S/			Over-heat protection, Over-current protection
Communication Cable		No.xmm ² (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
	Refrigerant name		R410A	R410A	R410A
Pefrigerant	Precharged Amount	kg	3.5	4.5	6
Refrigerant		lbs	7.7	9.9	13.2
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		V,Ø,Hz	380-415, 3, 50	380-415, 3, 50	380-415, 3, 50
Number of maximum cor	nnectable indoor units		13	16	20
Cooling Operation Range				-5 ~ 48	
Heating Operation Range				-20 ~ 18	

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

Heat Pump

	Device	Buyer Model	ARUN040GSS0, ARUN050GSS0, ARUN060GSS0 ARUN040LSS0, ARUN050LSS0, ARUN060LSS0 ARUN080LSS0, ARUN100LSS0, ARUN120LSS0
	AC Ez (Simple Controller)	PQCSZ250S0	0
	AC Smart II	PQCSW320A1E	0
	AC Smart Premium	PQCSW421E0A	0
	128 Unit Expansion Kit for AC Smart	PQCSE440U0	0
	Option Kit (SD card type) for AC Smart	PQCSE341A0 / PQCSE342A0	0
Central Controller	ACP(Advanced Control Platform)	PQCPA11A0E / PQCPB11A0E	0
	AC Manager	PQCSS520A0E	0
	ACP(Advanced Control Platform) Standard	PQCPC22N0	0
	ACP(Advanced Control Platform) Premium	PQCPC22A0	0
	AC Manager Plus	PQCSSA21E0	0
	DO(Digital Output) Kit	PQNFP00T0	0
	LONWORKS Gateway (DC 12V Adapter)	PQNFB16A1 / PLNWKB000	0
BNU	LONWORKS Gateway (AC 24 V)	PLNWKB100	Х
(Building Network Unit)	BACnet Gateway (DC 12V Adapter)	PQNFB17B0 / PQNFB17C0	0
	BACnet Gateway (AC 24 V)	PQNFB17C1	Х
	Refrigerant Charging Kit	PRAC1	0
Installation	Variable Water Flow Control Kit	PWFCKN000	Х
PDI(power distribution ir	ndicator)	PQNUD1S00	0
PDI(power distribution indicator) Premium		PQNUD1S40	0
Cool / Heat Selector		PRDSBM	0
IO Module (ODU Dry Contact)		PVDSMN000	0
Low Ambient Kit		PRVC*	Х
C. J. Maria in D. J.	LG MV	PRCTILO	0
Cycle Monitoring Device	Mobile LGMV(Bluetooth)	PMVBTQ01	0
Internet Bridge		PWFMDB000	0

Cooling Only

	Device	Buyer Model	ARUV025GSD0, ARUV030GSD0, ARUV040GSD0 ARUV050GSD0, ARUV060GSD0
	AC Ez (Simple Controller)	PQCSZ250S0	0
Central Controller	AC Smart II	PQCSW320A1E	0
	AC Smart Premium	PQCSW421E0A	0
	PI485	PMNFP14A1	0
Cycle Monitoring Device	LG MV	PRCT-FE1	0

Notes:

1. Capacities are based on the following conditions:

- Cooling Temperature : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB

Outdoor 35°C(95°F) DB / 24°C(75.2°F) WB

- Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB

- Piping Length : Interconnected Pipe Length = 5m

- Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.

2. Wiring cable size must comply with the applicable local and national code.

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

4. Sound Level Values are measured at Anechoic chamber.

Therefore, these values can be increased (maximum 3dB(A)) owing to ambient conditions during opration.

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