

Highlight

- Air cooled VRF Heat pump & Heat Recovery
- 12.1 ~ 33.6kW (Cooling capacity based)
- Both 1Ø, 220 ~ 240V, 50Hz and 3Ø, 380 ~ 415V, 50Hz
- Side discharge outdoor unit
- Includes the industry's first single phase Heat Recovery system
- Includes the industry's first R32 side discharge







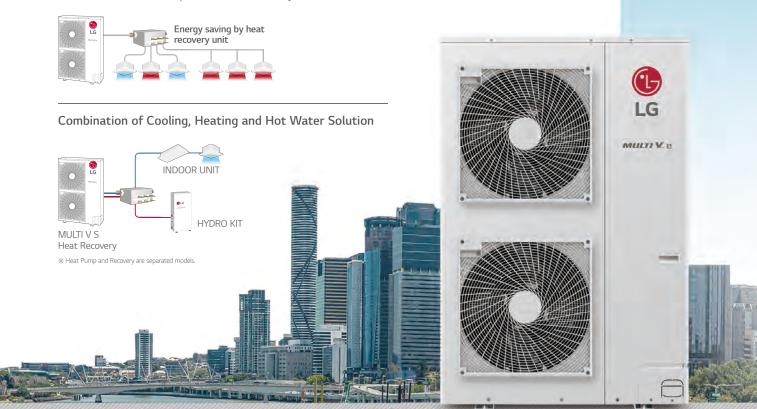
Energy savings

Reliability

Convenience

How does it work?

Available in Heat Pump and Heat Recovery Models





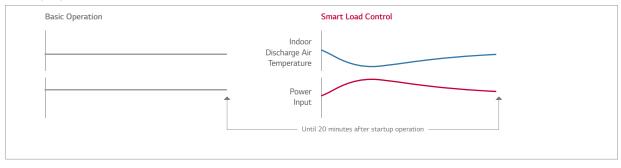
Smart Load Control Applied

Enhanced comfort and up to 23% energy savings with MULTI V load control

MULTI V S changes indoor discharge air temperature continuously according to load, to save energy.



Startup Operation

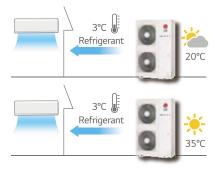


Max 10% Energy saving

- Indoor air discharge temperature
 Energy efficiency increased by 3-step Smart Load Control during startup phase
 Discharge air temperature adjusted according to outdoor and indoor temperature
 Comfort level in cooling 'heating operations ensured

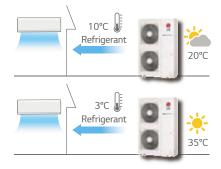
Real Time Operation

Basic Operation



Fixed refrigerant temperature

Smart Load Control



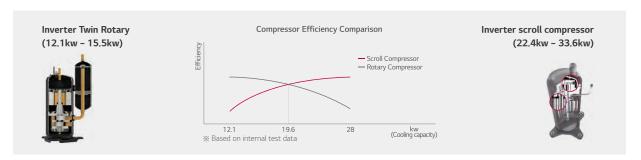
Fixed refrigerant temperature

Max 13% Energy saving

- % How to set up : By dip switch in outdoor unit (Referred to Product Data Book) Factory default setting is Off. Outdoor temperature condition : EER 100% / 75% / 50% / 25% = 35 $^{\circ}$ (DB) / 30 $^{\circ}$ (DB) / 25 $^{\circ}$ (DB) / 20 $^{\circ}$ (DB) Indoor temperature condition : 27 $^{\circ}$ (DB) / 19 $^{\circ}$ (WB) with Remote controller PTEMTB100 (White) / PREMTBB10 (Black)

Inverter Twin Rotary & Inverter Scroll Compressor

Adapted high efficient compressor according to capacity



Inverter Twin Rotary

Concentrated Winding Motor

Oil path area is improved by over 50% by increasing the extra stator cavity. Due to this, caloric value of motor is reduced, improving the cooling function of stator coil.



Twin Rotary Rotor

Upper and lower part rotor offset imbalance in shaft rotor rotation. Vibration and noise is reduced. Max torque load decreased by 45% compared to single rotor.



Surface Coating

Surface coating of outstanding abrasion resistance property on vane and crank shaft.



Inverter scroll compressor

Best-in-class Compressor Speed

- Rapid response capability
- Compact core design (Concentrated motor)
- Down to 15Hz: Part load efficiency improvement



6 Bypass Valve

Compressor reliability is maximized with 6 Bypass Valve

 Prevent compressor damage due to excessively compressed refrigerant more efficiently than 4 Bypass valve



Direct Oil Injection

- Eliminate suction refrigerant gas heat loss through direct oil injection into compression chamber (Efficiency increases)
- Increased reliability with regulated oil supply

Scroll Profile

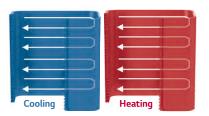
- The enhanced reliability with regulated oil supply
- Efficiency increases by expanding 96% Bypass area and 17% improved volume ratio by non-uniform scroll thickness

Optimal Heat Exchanger

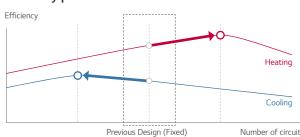
Maximize efficiency according to different heat exchanger path by cooling and heating

Variable Heat Exchanger Circuit intelligently selects the optimal path. With this smart path selection technology, an average of 6% increase in the efficiency of both operations has been achieved.





Efficiency performance



Efficiency up due to Fin shape

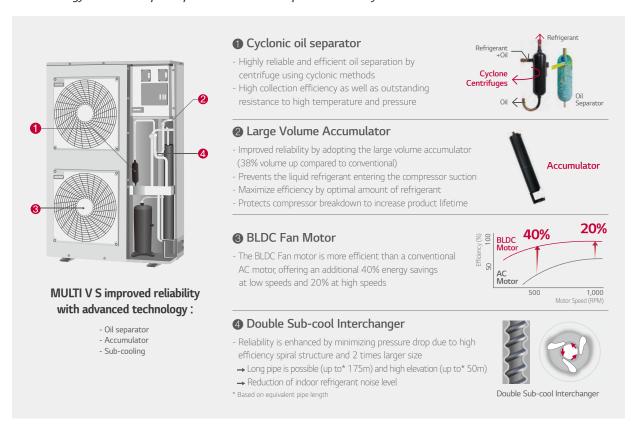
Improved heat exchanger efficiency of up to 28%

Cooling 100%
Heating 100%



Reliable Refrigerant Components

LG technology allows for superior performance and component durability

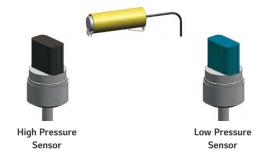


Smart Control

Pressure control applied for smart, quick and precise response to user's temperature request

Temperature + Pressure Control

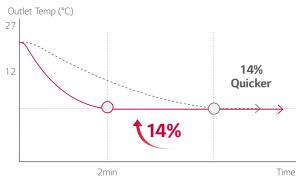
Senses and controls pressure directly using pressure sensor for faster and more precise response to load variation.



Quick Operating Response

Desired temperature can be reached up to 14% faster in cooling mode with pressure control, allowing more accurate control of indoor environment for maximized comfort.

* Specifications may vary for each model.



O— Pressure +Temperature Control

O— Temperature Control

Corrosion Resistance Black Fin

Strong durability against high salinity and heavily polluted air

Black Fin ensures continued operation of MULTI V S in highly corrosive environments such as salt laden atmosphere in coastal towns or severe air pollution in industrial cities. This improvement in durability prolongs the product's lifespan and lowers both the operational and maintenance costs.

Corrosion Resistance Proven by Certified Tests

LG Corrosion Resistance solution passed ISO 21207 accelerated corrosion test conducted by an independent test organization and the result has been certified by prestigious global certification organization, TUV.

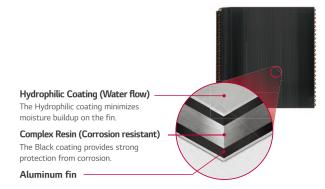
Certified protection



- ※ Verification of corrosion resistance performance
 - Test Method B of ISO 21207 - ASTM B117 / ISO 9227 (10,000 hours)

Enhanced Coating Layers

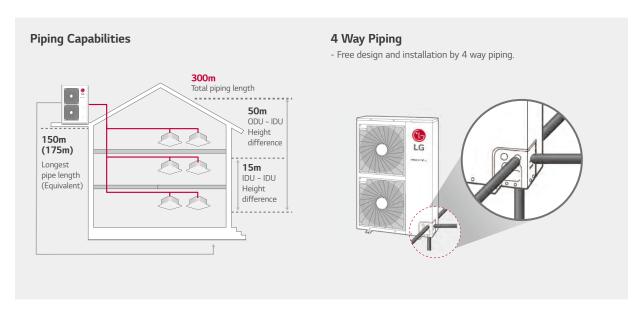
The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution. Moreover, the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup and eventually making it even more corrosion resistant.



Sufficient Piping Length

Increased piping length allows for flexible design and installation

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.

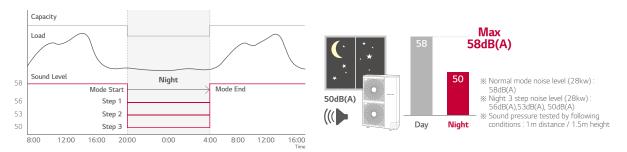


064 | 065

Low Noise Operation

Decreased noise during operation with low noise functionality

At night low noise mode, the noise level can reduce up to 14% in comparison with normal operation mode.



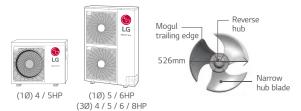
Fan Technology and RPM Control

External static pressure control enables outdoor unit to offer more flexibility in installations.

New axial fan offers higher air volume, increased static pressure, decreased noise and enhanced efficiency.

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 4dB(A).

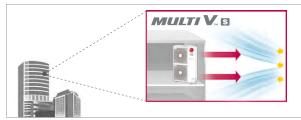




Fan RPM control

Due to the new shroud and ROM control, the air flows straight away from the fan even in high-rise buildings.





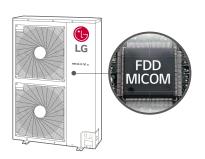
- Straight air flow
- New shroud adopted
- Performs high static pressure

Upgraded Fault Detection and Diagnosis

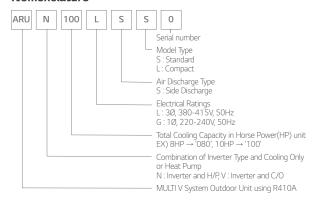
Easy and convenient maintenance with self-diagnosis

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.

- 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
- FDD (Fault Detection and Diagnosis)



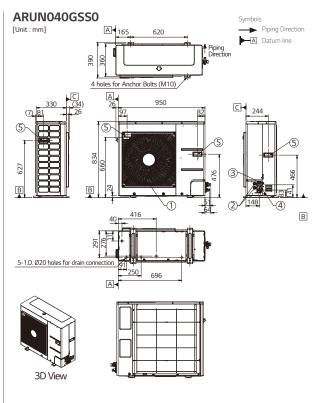
Nomenclature

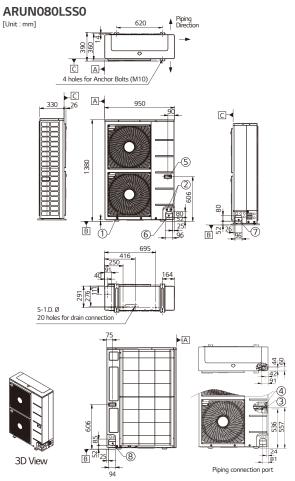


Outdoor Units Function

Category	Functions	MULTI V S
	Variable Path of Outdoor Unit HEX	-
Key Refrigerant	HiPOR™ (High Pressure Oil Return)	-
Components	Humidity Sensor	ARUB060GSS4 onl
	Corrosion Resistance Black Fin	0
	Oil Sensor	-
	Dual Sensing	ARUB060GSS4 onl
	Low Noise Operation	0
	Hgih Static Mode of Outdoor Unit Fan	0
	Partial Defrosting	-
Special Function	Auto Dust Removal of Outdoor Unit (Fan reverse rotation)	-
	Indoor Cooling Comfort Mode Based Outdoor Temperature	0
	Smart Load Control (SLC) (Changing indoor discharge air temperature according to load)	0
	Outdoor Unit Control Refer to Humidity	ARUB060GSS4 onl
	Defrost / Deicing	0
	High Pressure Switch	0
	Phase Protection	0
Basic Function	Restart Delay (3-minutes)	0
	Self Diagnosis	0
	Soft Start	0
	Test Run Function	-
	AC Ez (Simple Controller)	PQCSZ250S0
	AC Ez Touch	PACEZA000
	AC Smart IV	PACS4B000
Central Controller	AC Smart 5	PACS5A000
	ACP (Advanced Control Platform)	PACP4B000
	ACP (Advanced Control Platform) 5	PACP5A000
Central Controller BNU (Building Jetwork Unit)	AC Manager 5	PACM5A000
BNU (Building	ACP Lonworks	PLNWKB000
Network Unit)	ACP BACnet	PQNFB17C0
IO Module (ODU Dr	y Contact)	PVDSMN000
PDI (Power Distribution	Standard	PPWRDB000
Indicator)	Premium	PQNUD1S40
Cool / Heat Selector		PRDSBM
Cycle Monitoring	LGMV	PRCTIL0
Device	Mobile LGMV	PLGMVW100
Additional kit	Refrigerant Charging Kit	O (Logical operation) Not applied to ARUB060GSS4
	Low Ambient Kit	-
	Variable Water Flow Valve Control Kit	-

※ ○ : Applied, - : Not Applied





- Note

 1. Unit should be installed in compliance with the installation manual in the product box.

 2. Unit should be grounded in accordance with the local regulation or applicable national code.
- the local regulation or applicable national codes.

 3. All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.

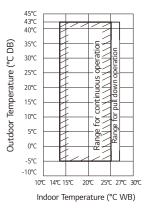
 4. Electrical characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

No.	Part Name	Description
1	Air Outlet	-
2	Power and communication cable Hole	-
3	Gas Pipe Connection	Welding
5	das ripe connection	joint
4	Lieuid Dina Connection	Welding
4	Liquid Pipe Connection	joint
5	Handle	-
6	Pipe routing hole (front)	-
7	Pipe routing hole (side)	-
8	Pipe routing hole (back)	-

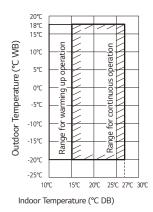
ECHNICAL DATA

Heat Pump

Cooling

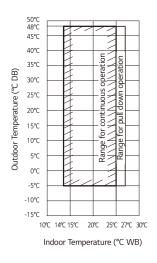


Heating

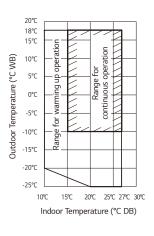


Heat Recovery

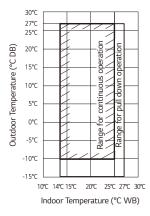
Cooling



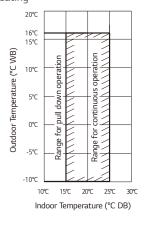
Heating



Simultaneous Cooling

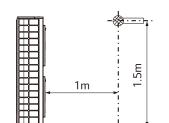


Simultaneous Heating



Note
1. These figures assume the following operating conditions: Equivalent piping length: 7.5m
Level difference: 0m
2. Range of pull down operation: If the relative humidity is too high, cooling capacity can be decreased by the sensible

Position of Sound Level Measuring



Note 1. These figures assume the following operating conditions: Equivalent piping length: 7.5m Level difference: 0m

MULTI V S HEAT PUMP





LG participates in the ECP programme for EUROVENT VRF program.
Check ongoing validity of certification: www.eurovent-certification.com

	НР		4
Model Name			ARUN040GSS0
	Cooling (Rated)	kW	12.1
Capacity	Heating (Rated)	kW	12.5
	Cooling (Rated)	kW	4.03
Input	Heating (Rated)	kW	3.10
EER	3 , ,		3.00
SEER			5.63
COP	Rated Capacity		4.03
SCOP	, ,		3.97
	Color (General)		Warm Gray
Exterior	RAL Code (Classic)		RAL 7044
Heat Exchanger	Туре		Wide Louver Plus
Exchanger	Туре		BLDC Inverter Twin Rotary
	Combination x No.		(Inverter) x 1
Compressor	Motor Output x Number	W x No.	4,000 x 1
	Oil Type		FW68D (PVE)
	Oil Charge	СС	1,300
	Туре		Axial Flow Fan
	Motor Output x Number	W x No.	124 x 1
Fan	Air Flow Rate (High)	m³/min x No.	60
	Drive		DC INVERTER
	Discharge	Side / Top	Side
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)
Connection	Gas Pipe	mm (inch)	Ø15.88 (5/8)
Dimensions (\	WxHxD)	mm x No.	950 × 834 × 330
Dimensions (\	N x H x D) - Shipping	mm x No.	(1,065 x 918 x 461) x 1
Net Weight		kg x No.	70
Shipping Weig	jht	kg x No.	77 x 1
Sound	Cooling	dB(A)	50
Pressure Level	Heating	dB(A)	52
Sound Power	Cooling	dB(A)	72
Level	Heating	dB(A)	75
Communication	on Cable	mm ² x No. (VCTF-SB)	2C x 1.0 ~ 1.5
	Refrigerant Name		R410A
Refrigerant	Precharged Amount in factory	kg	1.8
Remgerant	t-CO ₂ eq		3.758
	Control		Electronic Expansion Valve
D		Ø 1/11-	220-240,1,50
Power Supply		Ø, V, Hz	220, 1, 60
Number of M	aximum Connectable Indo	or Units	8

- Note

 1. Eurovent Test Condition: Type of indoor unit connected is only Ceiling Concealed Duct.

 Refer to EUROVENT certification regulation for more detail test conditions.

 Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

 2. Performances are based on the following conditions:

 Cooling Temperature: Indoor 27°C (88.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB

 Heating Temperature: Indoor 27°C (66°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 3. The maximum combination ratio is 160%.

 4. Wiring cable size must comply with the applicable local and national codes.

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

 6. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.

 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.

 Therefore, these values can be increased owing to ambient conditions during operation.

 7. Power factor could vary less than ±1% according to the operating conditions.

 8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

OUTDOOR UNITS SPECIFICATIONS

ZRUN040GSS0 / ZRUN050GSS0 ZRUN060GSS0







LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification www.eurovent-certification.com

	HP		4	5	6
Model Name			ZRUN040GSS0	ZRUN050GSS0	ZRUN060GSS0
	Cooling (Rated)	kW	12.1	14.0	15.5
Capacity	Heating (Rated)	kW	12.1	14.0	15.5
	Heating (Max)	kW	14.2	16.0	18.0
Input	Cooling (Rated)	kW	4.26	4.90	5.64
input	Heating (Rated)	kW	3.03	3.48	3.95
EER (Rated)			2.84	2.86	2.75
SEER			6.69	6.44	6.59
COP (Rated)			4.00	4.02	3.92
SCOP			3.87	3.81	4.07
.	Color		Warm Gray	Warm Gray	Warm Gray
Exterior	RAL Code		RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
Compressor	Motor Output x Number	W x No.	3,198 x 1	3,198 x 1	3,198 x 1
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	СС	1,100	1,100	1,100
	Туре		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 1	198 x 1	198 x 1
Fan	Air Flow Rate (High)	m³/min x No.	60	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Connection	Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (W >	(H x D)	mm x No.	950 x 834 x 330	950 x 834 x 330	950 × 834 × 330
Dimensions (W >	(H x D) - Shipping	mm x No.	1,147 x 919 x 461	1,147 x 919 x 461	1,147 x 919 x 461
Net Weight		kg x No.	64.7	71.6	71.6
Shipping Weight		kg x No.	73.7	79.6	79.6
Sound Pressure	Cooling	dB(A)	51	57	57
Level	Heating	dB(A)	55	60	60
Sound Power	Cooling	dB(A)	67	70	71
Level	Heating	dB(A)	71	74	75
Communication	Cable	mm ² x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
	Refrigerant name		R32	R32	R32
D-friend :	Precharged Amount	kg	1.5	2.0	2.0
Refrigerant	t-CO₂eq		1.013	1.350	1.350
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	220 - 230 - 240 , 1 , 50	220 - 230 - 240 , 1 , 50	220 - 230 - 240 , 1 , 50
Number of maxii	mum connectable indoor u	nits	8	10	13

- Note

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

 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.

- 4. Performances are based on the following conditions:

 Cooling: Indoor Ambient Temp 27°CDB / 19°CWB, Outdoor Ambient Temp 35°CDB / 24°CWB

 Heating: Indoor Ambient Temp 20°CDB / 15°CWB, Outdoor Ambient Temp 7°CDB / 6°CWB

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

 5. EUROVENT Test Condition:

 Performance values on the this PDB are based on Ceiling mounted cassette combination.

 Refer to EUROVENT web site (www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.

 6. The maximum combination ratio is 160%.

 7. This product contains Fluorinated greenhouse gases. (R32, GWP (Global warming potential) = 675)

MULTI V S R32

IULTI V S HEAT PUMP R32

ZRUN040LSS0 / ZRUN050LSS0 ZRUN060LSS0







LG participates in the ECP programme for EUROVENT VRF program.
Check ongoing validity of certification : www.eurovent-certification.com

	HP		4	5	6
Model Name			ZRUN040LSS0	ZRUN050LSS0	ZRUN060LSS0
	Cooling (Rated)	kW	12.1	14.0	15.5
Capacity	Heating (Rated)	kW	12.1	14.0	15.5
	Heating (Max)	kW	14.2	16.0	18.0
	Cooling (Rated)	kW	4.26	4.90	5.64
Input	Heating (Rated)	kW	3.03	3.48	3.95
EER (Rated)			2.84	2.86	2.75
SEER			6.69	6.44	6.59
COP (Rated)			4.00	4.02	3.92
SCOP			3.87	3.81	4.07
	Color		Warm Gray	Warm Gray	Warm Gray
Exterior	RAL Code		RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
Compressor	Motor Output x Number	W x No.	3,198 x 1	3,198 x 1	3,198 x 1
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	сс	1,100	1,100	1,100
	Туре		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 1	198 x 1	198 x 1
Fan	Air Flow Rate (High)	m³/min x No.	60	80	80
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Connection	Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (W >	(HxD)	mm x No.	950 x 834 x 330	950 x 834 x 330	950 × 834 × 330
Dimensions (W >	(H x D) - Shipping	mm x No.	1,147 x 919 x 461	1,147 x 919 x 461	1,147 x 919 x 461
Net Weight		kg x No.	64.7	71.6	71.6
Shipping Weight		kg x No.	73.7	79.6	79.6
Sound Pressure	Cooling	dB(A)	51	57	57
Level	Heating	dB(A)	55	60	60
Sound Power	Cooling	dB(A)	67	70	71
Level	Heating	dB(A)	71	74	75
Communication	Cable	mm ² x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
	Refrigerant name	,	R32	R32	R32
D. f.	Precharged Amount	kg	1.5	2.0	2.0
Refrigerant	t-CO ₂ eq		1.013	1.350	1.350
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø, V, Hz	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50	380 - 400 - 415, 3, 50
Number of maxir	mum connectable indoor u	nits	8	10	13

- Note

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

 2. Wiring cable size must comply with the applicable local and national codes. And "Electric characteristics" chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.

 3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard. Therefore, these values can be increased owing to ambient conditions during operation.

- 4. Performances are based on the following conditions:

 Cooling: Indoor Ambient Temp 27°CDB / 19°CWB, Outdoor Ambient Temp 35°CDB / 24°CWB

 Heating: Indoor Ambient Temp 20°CDB / 15°CWB, Outdoor Ambient Temp 7°CDB / 6°CWB

 Interconnected Pipe Length is 7.5m and difference of Elevation (Outdoor ~ Indoor Unit) is 0m.

 5. EUROVENT Test Condition:

 Performance values on the this PDB are based on Ceiling mounted cassette combination.

 Refer to EUROVENT web site(www.eurovent-certification.com) for other indoor unit combination and more detail test conditions.

 6. The maximum combination ratio is 160%.

 7. This product contains Fluorinated greenhouse gases. (R32, GWP (Global warming potential) = 675)

ARUN050GSS0 / ARUN060GSS0





LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : www.eurovent-certification.com

	HP		5	6
Model Name			ARUN050GSS0	ARUN060GSS0
Capacity	Cooling (Rated)	kW	14.0	15.5
Сараспсу	Heating (Rated)	kW	16.0	18.0
Input	Cooling (Rated)	kW	4.59	5.17
прис	Heating (Rated)	kW	4.18	5.00
EER			3.05	3.00
SEER			7.40	7.53
COP	Rated Capacity		3.83	3.60
SCOP			4.16	4.35
Exterior	Color (General)		Warm Gray	Warm Gray
Exterior	RAL Code (Classic)		RAL 7044	RAL 7044
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus
	Туре		BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	Combination x No.		(Inverter) x 1	(Inverter) x 1
Compressor	Motor Output x Number	W x No.	4,000 x 1	4,000 x 1
	Oil Type		FW68D (PVE)	FW68D (PVE)
	Oil Charge	СС	1,300	1,300
	Туре		Axial Flow Fan	Axial Flow Fan
	Motor Output x Number	W x No.	124 x 2	124 x 2
Fan	Air Flow Rate (High)	m³/min x No.	110	110
	Drive		DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)
Connection	Gas Pipe	mm (inch)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (\	W x H x D)	mm x No.	950 × 1,380 × 330	950 × 1,380 × 330
Dimensions (\	N x H x D) - Shipping	mm x No.	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1
Net Weight		kg x No.	94	94
Shipping Weig	ght	kg x No.	106	106
Sound	Cooling	dB(A)	51	52
Pressure Level	Heating	dB(A)	53	54
Sound Power	Cooling	dB(A)	72	72
Level	Heating	dB(A)	76	77
Communication	on Cable	mm² x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
	Refrigerant Name		R410A	R410A
Refrigerant	Precharged Amount in factory	kg	3.0	3.0
gerant	t-CO ₂ eq		6.263	6.263
	Control		Electronic Expansion Valve	Electronic Expansion Valve
D		Ø VIII	220-240 , 1 , 50	220-240 , 1 , 50
Power Supply		Ø, V, Hz	220, 1, 60	220, 1, 60
Number of Ma	aximum Connectable Indo	or Units	10	13

- Note

 1. Eurovent Test Condition: Type of indoor unit connected is only Ceiling Concealed Duct.

 Refer to EUROVENT certification regulation for more detail test conditions.

 Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

 2. Performances 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 27°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 3. The maximum combination ratio is 16.0%.

 4. Wiring cable size must comply with the applicable local and national codes.

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

 6. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.

 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.

 Therefore, these values can be increased owing to ambient conditions during operation.

 7. Power factor could vary less than ±1% according to the operating conditions.

 8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

IULTI V S HEAT PUMP

ARUN040LSSO / ARUN050LSSO ARUN060LSS0





LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification www.eurovent-certification.com

	HP		4	5	6
Model Name			ARUN040LSS0	ARUN050LSS0	ARUN060LSS0
C	Cooling (Rated)	kW	12.1	14.0	15.5
Capacity	Heating (Rated)	kW	12.5	16.0	18.0
lance.	Cooling (Rated)	kW	3.39	4.59	5.17
Input	Heating (Rated)	kW	2.75	4.18	5.00
EER			3.57	3.05	3.00
SEER			7.42	7.40	7.53
COP	Rated Capacity		4.55	3.83	3.60
SCOP			4.30	4.16	4.35
Exterior	Color (General)		Warm Gray	Warm Gray	Warm Gray
EXTELLO	RAL Code (Classic)		RAL 7044	RAL 7044	RAL 7044
Heat Exchanger	Туре		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary	BLDC Inverter Twin Rotary
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
Compressor	Motor Output x Number	W x No.	4,000 x 1	4,000 x 1	4,000 x 1
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D (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 x No.	124 x 2	124 x 2	124 x 2
Fan	Air Flow Rate (High)	m³/min x No.	110	110	110
	Drive		DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø9.52 (3/8)
Connection	Gas Pipe	mm (inch)	Ø15.883(5/8)	Ø15.88 (5/8)	Ø19.05 (3/4)
Dimensions (W x H x D)	mm x No.	950 × 1,380 × 330	950 × 1,380 × 330	950 × 1,380 × 330
Dimensions (W x H x D) - Shipping	mm x No.	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1
Net Weight		kg x No.	96	96	96
Shipping Wei	ght	kg x No.	108	108	108
Sound	Cooling	dB(A)	50	51	52
Pressure Level	Heating	dB(A)	52	53	54
Sound Power	Cooling	dB(A)	72	72	72
Level	Heating	dB(A)	76	76	77
Communicati	on Cable	mm ² x No. (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
Refrigerant	Precharged Amount in factory	kg	3.0	3.0	3.0
gerant	t-CO ₂ eq		6.263	6.263	6.263
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ø	380-415,3,50	380-415,3,50	380-415,3,50
Fower Supply		Ø, V, Hz	380, 3, 60	380, 3, 60	380, 3, 60
Number of M	aximum Connectable Indo	or Units	8	10	13

- Note

 1. Eurovent Test Condition: Type of indoor unit connected is only Ceiling Concealed Duct.

 Refer to EUROVENT certification regulation for more detail test conditions.

 Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

 2. Performances are based on the following conditions:

 Cooling Temperature: Indoor 27°C (88.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB

 Heating Temperature: Indoor 27°C (66°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 3. The maximum combination ratio is 160%.

 4. Wiring cable size must comply with the applicable local and national codes.

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

 6. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.

 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.

 Therefore, these values can be increased owing to ambient conditions during operation.

 7. Power factor could vary less than ±1% according to the operating conditions.

 8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

ARUN080LSSO / ARUN100LSSO ARUN120LSS0





LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification : www.eurovent-certification.com

	НР		8	10	12
Model Name			ARUN080LSS0	ARUN100LSS0	ARUN120LSS0
Wodet Warrie	Cooling (Rated)	kW	22.4	28.0	33.6
Capacity	Heating (Rated)	kW	24.5	30.6	36.7
	Cooling (Rated)	kW	8.45	12.44	15.27
Input	Heating (Rated)	kW	6.96	8.50	12.23
EER	ricating (Nated)	IX V V	2.65	2.25	2.20
SEER			7.13	6.28	6.50
COP	Rated Capacity		3.52	3.60	3.00
SCOP	Thatba Supusity		4.53	4.21	4.32
	Color (General)		Warm Gray	Warm Gray	Warm Gray
Exterior	RAL Code (Classic)		RAL 7044	RAL 7044	RAL 7044
Heat	Type		Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
Exchanger	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1	(Inverter) x 1	(Inverter) x 1
Compressor	Motor Output x Number	W v No	4,200 x 1	5,300 x 1	5,300 x 1
Compressor	Oil Type	VV X IVO.	FW68D (PVE)	FW68D (PVE)	FW68D (PVE)
	Oil Charge	CC	2.400	2.600	3.400
	Type	cc	Propeller fan	Propeller fan	Propeller fan
	Motor Output x Number	W x No	124 x 2	250 x 2	250 x 2
Fan	Air Flow Rate (High)	m³/min x No.	140	190	190
T CIT	Drive	111 /111111 X 140.	DC INVERTER	DC INVERTER	DC INVERTER
	Discharge	Side / Top	Side	Side	Side
Dis.	Liquid Pipe	mm (inch)	Ø9.52 (3/8)	Ø9.52 (3/8)	Ø12.7 (1/2)
Pipe Connection	Gas Pipe	mm (inch)	Ø19.05 (3/4)	Ø22.2 (7/8)	Ø28.58 (1-1/8)
Dimensions (\		mm x No.	950 × 1,380 × 330	1,090 × 1,625 × 380	1,090 x 1,625 x 380
	N x H x D) - Shipping	mm x No.	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1	(1,065 x 918 x 461) x 1
Net Weight	,Рг3	kg x No.	115	142	155
Shipping Wei	aht	kg x No.	127	158	171
Sound	Cooling	dB(A)	57	58	60
Pressure Level	Heating	dB(A)	57	58	60
Sound Power	Cooling	dB(A)	78	77	78
Level	Heating	dB(A)	81	79	82
Communication	on Cable	mm² x No. (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5
	Refrigerant Name	(1011 35)	R410A	R410A	R410A
5.61	Precharged Amount in	kg	3.5	4.5	6.0
Refrigerant	factory t-CO ₂ eq		7.306	9.394	12.525
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
			380-415 , 3 , 50	380-415 , 3 , 50	380-415 , 3 , 50
Power Supply		Ø, V, Hz	380 , 3 , 60	380 , 3 , 60	380,3,60
Number of M	aximum Connectable Indo	or Units	13	16	20
Taciliber of W	ammani connectable inde	or office	13	10	20

Note

1. Eurovent Test Condition: Type of indoor unit connected is only Ceiling Concealed Duct.

- Refer to EUROVENT certification regulation for more detail test conditions.

- Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

2. Performances 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 27°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

3. The maximum combination ratio is 16.0%.

4. Wiring cable size must comply with the applicable local and national codes.

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

6. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.

Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.

Therefore, these values can be increased owing to ambient conditions during operation.

7. Power factor could vary less than ±1% according to the operating conditions.

8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

MULTI V S HE





LG participates in the ECP programme for EUROVENT VRF program. Check ongoing validity of certification www.eurovent-certification.com

	HP		6
Model Name			ARUB060GSS4
	Cooling (Rated)	kW	15.5
Capacity	Heating (Rated)	kW	18.0
	Cooling (Rated)	kW	5.74
Input	Heating (Rated)	kW	5.14
EER			2.70
SEER			5.92
COP	Rated Capacity		3.50
SCOP			3.79
Fortesian	Color		Warm Gray
Exterior	RAL Code (Classic)		RAL 7044
Heat Exchanger	Туре		Wide Louver Plus
,	Туре		Hermetically Sealed Scroll
	Combination x No.		(Inverter) x 1
Compressor	Motor Output x Number	W x No.	4,200 x 1
	Oil Type		FW68D (PVE)
	Oil Charge	СС	1,700
	Туре		Axial Flow Fan
	Motor Output x Number	W x No.	124 x 2
Fan	Air Flow Rate (High)	m³/min x No.	110
	Drive		DC INVERTER
	Discharge	Side / Top	Side
Pipe	Liquid Pipe	mm (inch)	Ø9.52 (3/8)
Connection	Low Pressure Gas Pipe	mm (inch)	Ø19.05 (3/4)
#1	High Pressure Gas Pipe	mm (inch)	Ø15.88 (5/8)
Dimensions (\	W x H x D)	mm x No.	950 × 1,380 × 330
Dimensions (\	N x H x D) - shipping	mm x No.	(1,140 x 1,549 x 466) x 1
Net Weight		kg x No.	118
Shipping Weight	ght	kg x No.	132
Sound Pressure	Cooling	dB(A)	56
Level	Heating	dB(A)	58
Sound Power	Cooling	dB(A)	76
Level	Heating	dB(A)	78
Communication	on Cable	mm ² x No. (VCTF-SB)	2C x 1.0 ~ 1.5
	Refrigerant Name		R410A
Refrigerant	Precharged Amount in factory	kg	3.5
,	t-CO ₂ eq		7.306
	Control		Electronic Expansion Valve
Power Supply		Ø, V, Hz	220-230-240 , 1 , 50/60
Number of M	aximum Connectable Indo	or Units	13

- Note

 1. Eurovent Test Condition: Type of indoor unit connected is only Ceiling Concealed Duct.

 Refer to EUROVENT certification regulation for more detail test conditions.

 Refer to EUROVENT website for test values connected Ceiling Cassette type indoors.

 2. Performances are based on the following conditions:

 Cooling Temperature: Indoor 27°C (88.6°F) DB / 19°C (66.2°F) WB / Outdoor 35°C (95°F) DB / 24°C (75.2°F) WB

 Heating Temperature: Indoor 27°C (66°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 3. The maximum combination ratio is 160%.

 4. Wiring cable size must comply with the applicable local and national codes.

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

 6. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.

 Sound power level is measured on the rated condition in the semi-anechoic rooms by ISO 9614 standard.

 Therefore, these values can be increased owing to ambient conditions during operation.

 7. Power factor could vary less than ±1% according to the operating conditions.

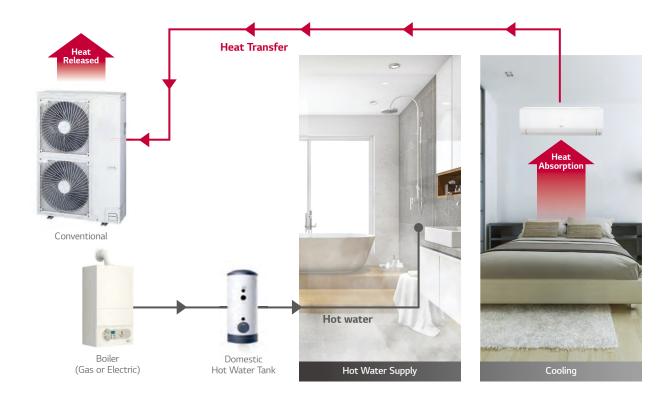
 8. This product contains Fluorinated greenhouse gases. (R410A, GWP(Global warming potential) = 2087.5)

Energy Savings

Energy consumption can be reduced as indoor heat is absorbed and transferred to hot water supply.

Conventional

Absorbed heat is released to outdoor air.



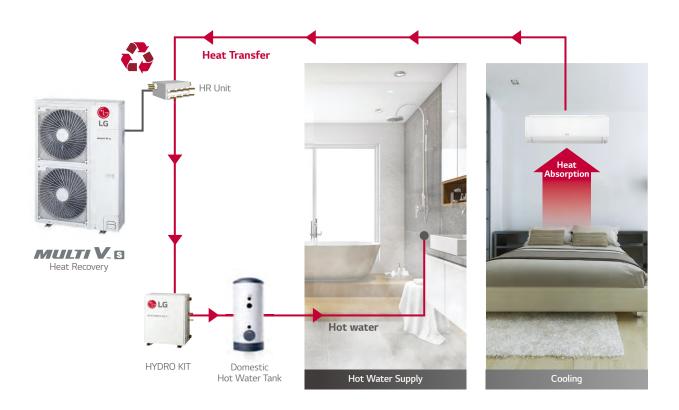
OUTDOOR UNITS

Energy Savings

Energy consumption can be reduced as indoor heat is absorbed and transferred to hot water supply.

MULTI V S Heat Recovery with HYDRO KIT

Absorbed heat from indoor space is used for making hot water.





- Air cooled VRF Heat pump
- 12.1 ~ 15.5kW (based on cooling capacity)
- Both 10, 220 ~ 240V, 50Hz and 30, 380 ~ 415V, 50Hz



Lower Global Warming Potential (GWP)

What is GWP?

Global Warming Potential is a measure that allows for an accurate comparison of the environmental impact of different gases. GWP measures how much energy the emissions of 1 ton of a gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (CO₂).





R134a 1,430 GWP



 \bigcirc N_2O 298 GWP

CH₄ 25 GWP

Global Trend and EU Regulation for F-Gas

HFC* Phase Down 79% by 2030.



79%

HFCs refrigerants should be reduced by 79% by 2030 compared to 2013.

Hydrofluorocarbon : One of the alternative freon gas that does not harm the Earth's ozone layer

Cost Savings with R32

Higher Efficiency

Savings on cost of energy consumption.



Reduced Equipment Sizes

Savings on product purchase and labor cost for installation and maintenance.



Less Refrigerant Charge

Savings on cost of injecting & replacing refrigerant.



Reduced Refrigerant Volume

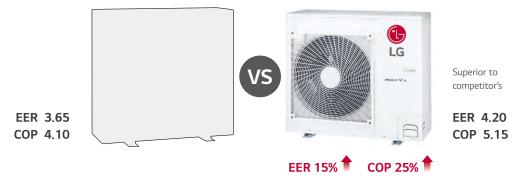
Savings on refrigerant purchase and recycling costs.



MULTI V S R32

Higher Efficiency

LG Multi V S achieved high efficiency through technology of biomimetic fan and revolutionary scroll compressor.



The values based on 5HP model

Compact Size & Light Weight

Its compact size and light weight make it easy to install and optimize space. (5/6HP)



Less Refrigerant Charge

LG reduced refrigerant charge by applying environment-conscious refrigerant R32.

※ IDU (Wall Mounted Unit): 5 kBtu/h, 8 EA
※ This result can be different depending on actual environment

Total amount : 5.6 kg Factory Charging: 3 kg Total amount: 4.3 kg 23% (R32) New

23% -

New

Corrosion Resistance Black Fin

Enhanced Coating Layers

The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution. Moreover, the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimizing moisture buildup and eventually making it even more corrosion resistant.

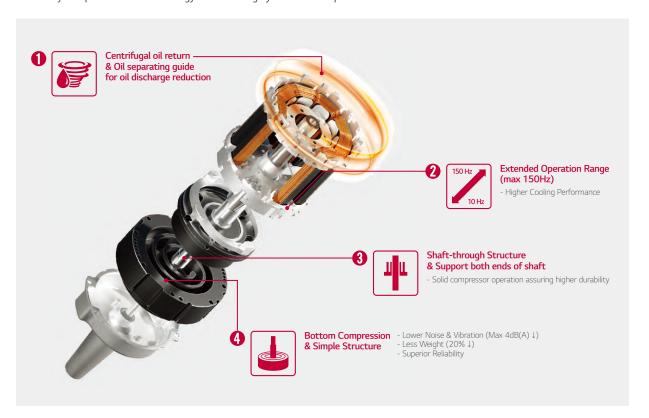




- Werification of corrosion resistance performance
 Test Method B of ISO 21207
 ASTM B117 / ISO 9227 (10,000 hours)

R1Compressor™

R1 Compressor is one that combines high-efficiency, low sound characteristics of the scroll and the simple compressing structure of the rotary compressor. This technology enables a highly efficient compact model.



Conventional Compressor

R1Compressor™

