

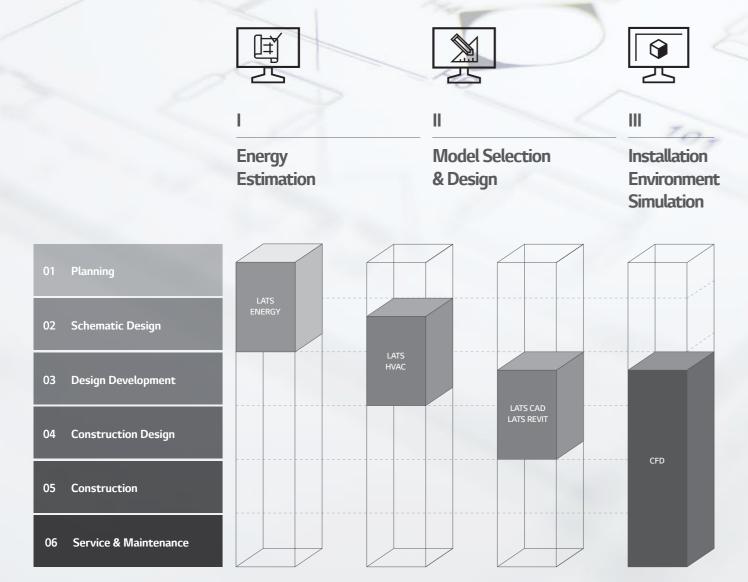


ENGINEERING CAPABILITY :HVAC TOOL & SUPPORT

From planning to service & maintenance and then to de-construction, an architectural project goes along many stages from the beginning to the end of its lifecycle. Along those stages, various engineering tools are applied to solve the diverse issues happening in each stage, with the most optimal solution possible. Due to the usage of such tools, buildings are effectively designed, built, supervised, and maintained throughout the lifecycle.

Dedicated to provide exceptional HVAC engineering support, LG Electronics Air-Solution Business Unit offers several engineering tools and solutions focused on HVAC, during the overall lifecycle of a building, related to the three categories: I. Draft Energy Estimation, II. Model Selection & Design, and III. Installation Environment Simulation. Among them, the LATS* Program series has been developed to offer optimised tool for LG HVAC systems, providing our customers a fast, easy, and accurate way in everyday duties of Model-selection, Draft Energy Estimation & Designing, and many more.

* LATS: LG Air-conditioner Technical Solution



01 Draft Energy Estimation

LATS Energy

LATS Energy program is a draft energy estimation program, self-developed by LG. This program helps estimate the draft energy usage and analyses the life cycle cost of LG VRF models during the early stage of a project.



02 Model Selection

LATS HVAC

LATS HVAC is an integrated model selection program of LG HVAC products, enabling an accurate and quick selection on the best model suitable to each sites. In addition to model selection, faster estimation on refrigerant piping diameter and additional refrigerant is possible, along with auto printing of reports.



03 Design

LATS CAD

LATS CAD enables faster and a more accurate design of LG HVAC products. Moreover, it offers not only designing, but also quotation and installation review in order to minimise problems during installation processes.

LATS Revit

LATS REVIT is developed to make 3D designing of LG HVAC products easier than the previous program. It enables engineers to check 3D images from designing stage and prevents possible issues of the installation stage.

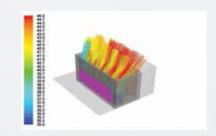




04 Installation Environment Simulation

CFD Analysis

CFD Analysis is applied in areas of estimating: indoor airflow and temperature distribution while operating VRF products, outdoor airflow distribution, and noise level. By running a simulation before construction, engineers estimate possible issues and find optimal solutions of malfunction that could occur after construction.



LG CONTROL SOLUTION

MULTI V S offers a diverse range of effective control solutions that satisfy specific needs of each building and its user scene. These controlling systems are equipped with user friendly interface, flexible interlocking environment, energy management and smart individual controller for optimised controlling conditions and smart building management.



OUTDOOR UNIT KEY FEATURES

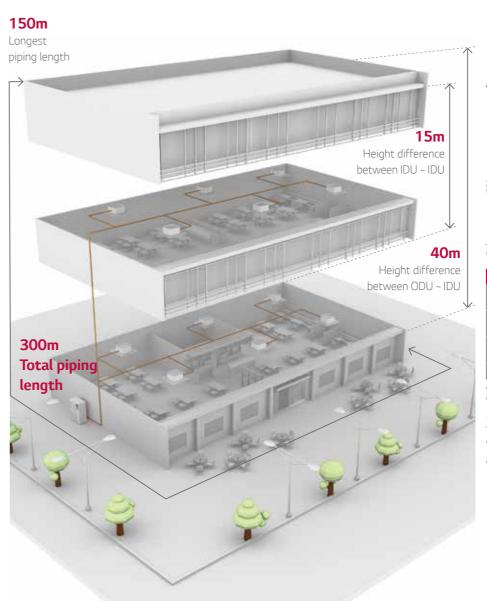
LINE-UP

MULTI V S

Unit : Class

Unit : Class Type	Features	Appearance	4	5	6	8	10	12	14	16	18	20
	Saves floor space Flexible design applications Slim, light and wide line up (9kW ~ 33.6kW) Combination of indoor unit (Up to 20 Units) For Small / Medium building with up to 20 rooms	ic ic	0									
MULTIVS				0	0							
		LG LG				•	•	•				
MULTI V S Heat Recovery					0							

● 400V, 3Ø O 230V, 1Ø





1. Compact Size



2. Piping Capabilities

Total Piping Length	300m
Longest piping length (Equivalent)	150m (175m)
Longest piping length after 1st branch (Conditional application)	40m (90m)
Height difference between ODU ~ IDU	40m* (50m**)
Height difference between IDU ~ IDU	15m

* In case of outdoor unit installed lower than indoor unit ** In case of outdoor unit installed upper than indoor unit

3. Operation Range

- Heating: -20 ~ 18°C WB
- Cooling : -5 ~ 43°C DB

Benefit

- Saves valuable floor space
- Flexible design applications
- Slim, light and wide line up (9kW ~ 33.6kW)
- Combination of indoor unit

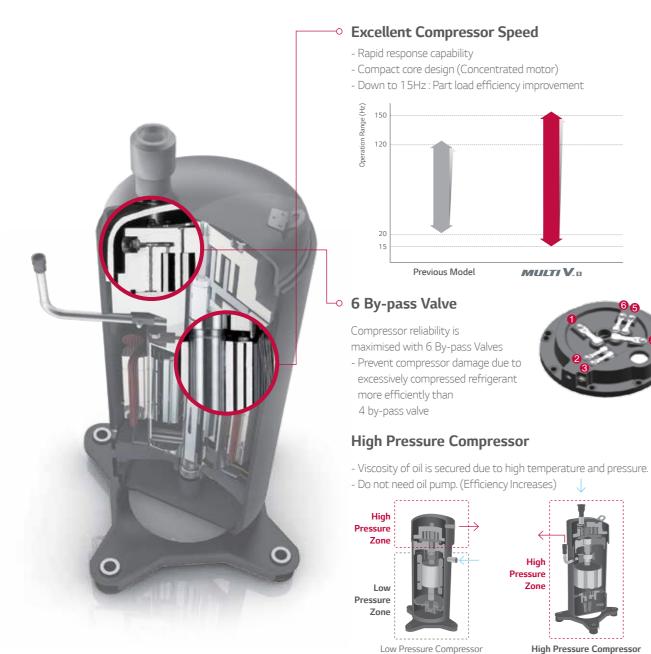
Application

- Premium residential apartment / House (With small balcony)
- Small sized office / Restaurant / Retail shops
- Building with multiple owners

EFFICIENCY

LG's 4th Generation Inverter Compressor

MULTI V S has high efficiency inverter scroll compressor with frequency range 15Hz ~ 150Hz.



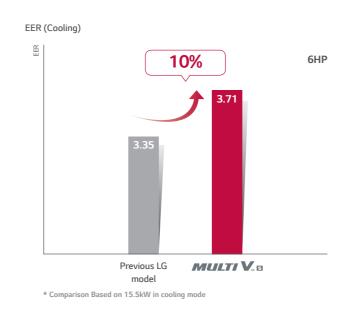
Inverter Scroll Compressor

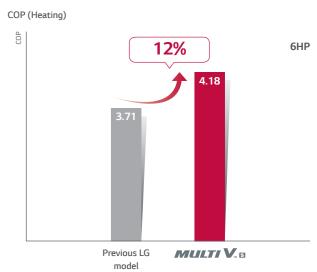
- Low vibration / Low noise

- Inverter SCROLL compressor of high efficiency

EFFICIENCY

High Efficiency





* Comparison Based on 615.5kW in heating mode

* Based on internal test data

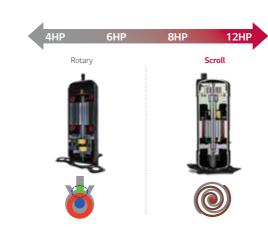
Reliable Inverter Compressor

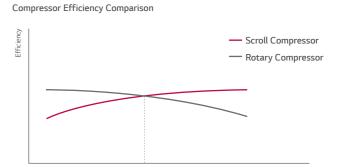
MULTI V S Inverter compressors are highly efficient and reliable for all commercial & residential applications.



High reliability and efficiency at all capacity

- Below 7HP: Rotary compressor
- Upper 7HP: Scroll compressor

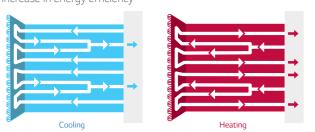


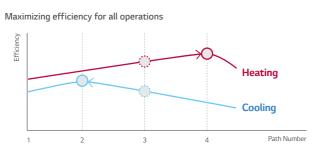


Optimal Heat Exchanger Circuit

Variable Heat Exchanger Circuit is among the world first technology which intelligently selects the optimal path for both heating and cooling (Efficiency increased up to 5%).

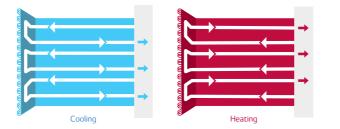
Variable Heat Exchanger Circuit adjusts the path number to match temperatures and operation modes, thereby contributing to an increase in energy efficiency



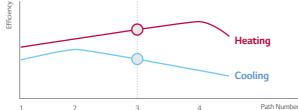


Previous LG model

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

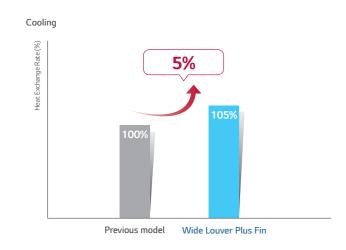


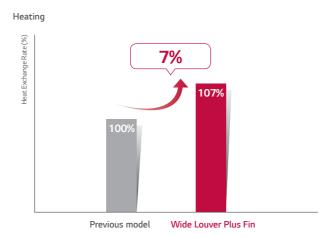




Heat Exchanger with Wide Louver Plus Fin

Improved heat exchanger efficiency of up to 7%.





EFFICIENCY

Pressure Sensor

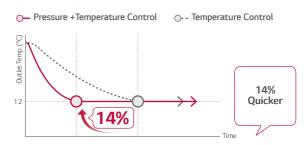
Temperature + Pressure Control

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



Quick Operating Response

Pressure control takes up to 14% 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

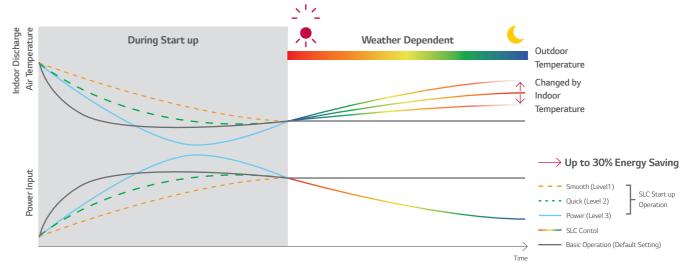
Smart Load Control

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



Benefits:

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



PERFORMANCE

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

- The BLDC Fan motor is more efficient

offering 40% energy savings at low

40%

than a conventional AC motor,

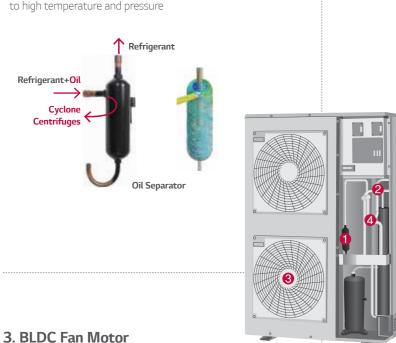
speeds and 20% at high speeds

BLDC Motor

AC Motor

100 l

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



20%

1,000

2. Large Volume Accumulator

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



4. Double Sub-cool Interchanger

- Reliability is enhanced by minimising pressure drop due to high efficiency spiral structure and 2 times larger size
- \rightarrow Long pipe is possible (up to 150m) and high elevation (up to 50m)
- → Reduction of indoor refrigerant noise level





Double Sub-cool Interchanger

PERFORMANCE

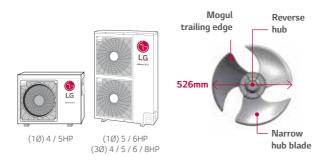
Fan Technology and E.S.P. Control

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

Fan Technology

hub, this provides a high efficiency, low noise, wide fan, as well as improving level is decreased by 4dB (A). the air flow rate.

The new axial fan has a mogul trailing edge, narrow hub blade and reverse Super cannon fan increases the air volume in 50 CMM and the noise

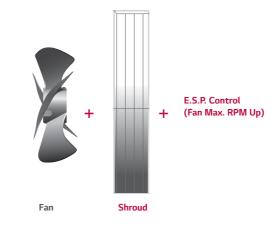


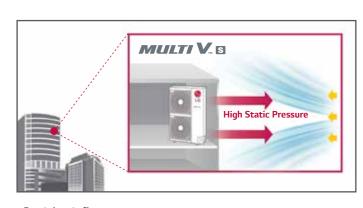




High E.S.P. Technology

Flow of air has straightness due to fan shroud and E.S.P. control even in high-rise building.



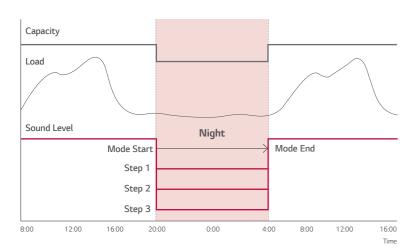


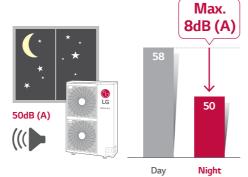
- Straight air flow
- New shroud adopted
- Performs high static pressure

^{*} E.S.P : External Static Pressure

Night Silent Operation

At night mode, noise reduced up to 14% compared to normal mode.





- * Normal mode noise level (28kW): 58dB(A)
- * Night 3 step noise level (28kW) : 56dB(A), 53dB(A), 50dB(A)
- 1m distance / 1.5m height

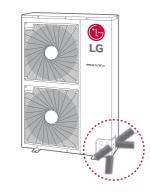
Expanded Piping Capabilities

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 300m Total piping length 50m 15m 175m ODU-IDU IDU~IDU Height Longest Height difference equivalent difference pipe length

4 Way Piping

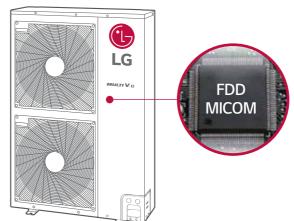
- Free design and installation by 4 way piping.



CONVENIENCE

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.



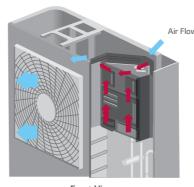
- Auto commissioning Mode
- Auto Refrigerant Collection
- Auto evaluation of refrigerant amount and charging
- Able to access LGMV (LG Monitoring View) by smartphone
- Black box function
- Piping & wiring error check-up

Self Cooled Control

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

Control Box Cooling System

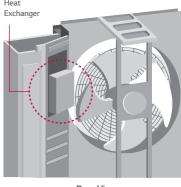
- Feature of control box is diagonal shape, it makes naturally air flowing (Directly pulling air back of the fan)
- Reduced heating / cooling efficiency loss



Front View

Heat Exchanger Technology

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



Rear View

Smartphone Monitoring & Control

Mobile LGMV helps technicians to monitor the MULTI V S system cycle using the Wi-Fi MV Module. Technicians can check LGMV data 10m away from the MULTI V S outdoor unit with a smartphone. (iPad only for IOS).



Connection type: Wi-Fi / To use Mobile LGMV Application, exclusive Wi-Fi MV Module is required

Smart Phone Specification

App. Name	OS Recommended Specification		Resolution	Wireless Communication Effective Distance	
	iOS (iPad Only)	AppiOS 8.0 / 8.1	2,048 x 1,536 (Optimization) / 1,024 x 768	Effective distance : 10m (Open Area)	
Mobile LGMV	Android	Android 4.4 (Android 3.x, Honeycomb not Supported)	480 x 800 / 720 x 1,280, 768 x 1,280 / 768 x 1,024 / 1,080 x 1,920	The effective distance may be reduced by the communication environment	

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



PERFORMANCE

Heat Exchanger with Ocean Black Fin for Corrosion Resistance

The LG exclusive Ocean Black Fin is applied on the heat exchanger of MULTI V S in order to perform even in corrosive environments. The strong protection from various corrosive external environments such as seaside with high salt contamination and industrial cities with severe air pollution caused by fumes from factories keeps MULTI V S operating without breakdown. This improvement in durability prolongs the product's lifespan and lowers both the operational and maintenance costs.







OUTDOOR UNIT SPECIFICATION

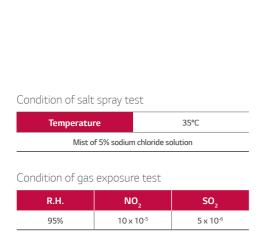
MULTIVS

MULTIVS

Corrosion Resistance Proven by Certified Tests

LG Corrosion Resistance solution passed ISO accelerated corrosion test conducted by an independent test organisation and the result has been certified by prestigious global certification organization, UL (Underwriters Laboratories).

Certified protection



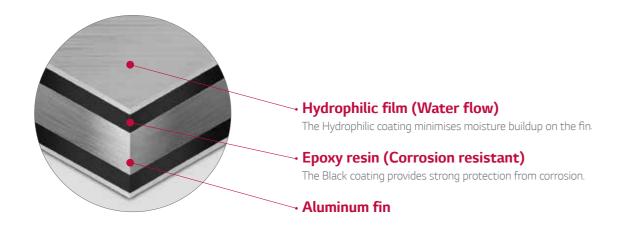




- * Test Method B Simulation Validated
 (Test condition: Salt contaminated condition +
 severe industrial/traffic environment(NO./SO.))
- * Based on 1,500 UL test hours (=62.5 days)

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 including fumes from factories. Moreover, the hydrophilic film keeps water from accumulating on the heat exchanger's fin, minimising moisture buildup and eventually making it even more corrosion resistant.



ARUN040GSS0



CLASS			4		
Model Name	ne Combination Unit		ARUN040GSS0		
		kW	12.1		
	Cooling	kcal/h	10,400		
0 : 1)(0 : 1)		Btu/h	41,300		
Capacity 1) (Rated)		kW	12.5		
	Heating	kcal/h	10,800		
		Btu/h	42,700		
1 (0 11)	Cooling	kW	2.95		
Input (Rated) 1)	Heating	kW	2.91		
Power Factor	Rated	-	0.93		
Casing Colour			Warm Grey		
Heat Exchanger			Wide Louver Plus		
_	Туре		Hermetic Motor Compressor		
Compressor	Motor Output x Number	W x No.	4,000 x 1		
	Туре		Axial Flow Fan		
	Motor Output x Number	W	124 x 1		
_	Air Flow Rate (High)	m³/min	60		
Fan		l/s	1,000		
	Drive		DC INVERTER		
	Discharge	Side / Top	Side		
D: 0 ::	Liquid	mm (inch)	Ø 9.52(3/8)		
Pipe Connections	Gas	mm (inch)	Ø 15.88(5/8)		
Dimensions (W x H x D)	mm	950 × 834 × 330		
Net Weight		kg	70		
	Cooling	dB(A)	50		
Sound Pressure Level	Heating	dB(A)	52		
Sound Power Level		dB(A)	66		
	High pressure protection	-	High pressure sensor / High pressure switch		
Protection Devices	Compressor / Fan	-	Over-heat protection / Fan driver overload protector		
	Inverter	-	Over-heat protection / Over-current protection		
		No. x mm ² (VCTF-SB)	2C x 1.0 ~ 1.5		
Refrigerant	Refrigerant name		R410A		
	Precharged Amount kg		1.8		
	Control		Electronic Expansion Valve		
Power Supply V, Ø, Hz		V, Ø, Hz	220-240 , 1 , 50		
Number of maxmum connectable indoor units 3)			18		

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 = 7.5m Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
- 2. The maximum combination ratio is 160%.
- 3. Wiring cable size must comply with the applicable local and national code
- Due to our policy of innovation some specifications may be changed without notification.
- 5. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
- 6. Power factor could vary less than $\pm 1\%$ according to the operating conditions.

MULTI V S

ARUN050GSS0 ARUN060GSS0



CLASS			5	6		
Model Name	Combination Unit		ARUN050GSS0	ARUN060GSS0		
		kW	14.0	15.5		
	Cooling	kcal/h	12,000	13,300		
0 11/0 11		Btu/h	47,800	52,900		
Capacity 1) (Rated)		kW	16.0	18.0		
	Heating	kcal/h	13,800	15,500		
		Btu/h	54,600	61,400		
1	Cooling	kW	3.38	3.96		
Input (Rated) 1)	Heating	kW	3.52	4.09		
Power Factor	Rated	-	0.93	0.93		
Casing Colour			Warm Grey	Warm Grey		
Heat Exchanger			Wide Louver Plus	Wide Louver Plus		
6	Туре		Hermetic Motor Compressor	Hermetic Motor Compressor		
Compressor	Motor Output x Number	W x No.	4,000 x 1	4,000 x 1		
	Туре		Axial Flow Fan	Axial Flow Fan		
	Motor Output x Number W		124 x 2	124 x 2		
Fan	At Ele Der (Utell)	m³/min	110	110		
ran	Air Flow Rate (High)	l/s	1,833	1,833		
	Drive		DC INVERTER	DC INVERTER		
	Discharge Side / Top		Side	Side		
Dina Connections	Liquid	mm (inch)	Ø 9.52(3/8)	Ø 9.52(3/8)		
Pipe Connections	Gas	mm (inch)	Ø 15.88(5/8)	Ø 19.05(3/4)		
Dimensions (W x H x D)	mm	950 × 1,380 × 330	950 × 1,380 × 330		
Net Weight		kg	94	94		
Sound Pressure Level	Cooling	dB(A)	51	52		
Sourid Pressure Level	Heating	dB(A)	53	54		
Sound Power Level		dB(A)	67	69		
	High pressure protection	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch		
Protection Devices	Compressor / Fan	-	Over-heat protection / Fan driver overload protector	Over-heat protection / Fan driver overload protector		
	Inverter	-	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection		
		No. x mm ² (VCTF-SB)	2C x 1.0 ~ 1.5	2C x 1.0 ~ 1.5		
	Refrigerant name		R410A	R410A		
Refrigerant	Precharged Amount	kg	3.0	3.0		
	Control		Electronic Expansion Valve	Electronic Expansion Valve		
Power Supply V, Ø, Hz		220-240 , 1 , 50	220-240 , 1 , 50			
Number of maxmum connectable indoor units 3)			10	13		

- 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 = 7.5m Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
- 2. The maximum combination ratio is 160%.
- Wiring cable size must comply with the applicable local and national code
 Due to our policy of innovation some specifications may be changed without notification.
- 5. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
- 6. Power factor could vary less than \pm 1% according to the operating conditions.

ARUN080LSS0 ARUN100LSS0 ARUN120LSS0



CLASS			8	10	12	
Model Name Combination Unit			ARUN080LSS0	ARUN100LSSO	ARUN120LSSO	
		kW	22.4	28.0	33.6	
	Cooling	kcal/h	19,300	24,100	28,900	
0 1 1 (0 1 1)		Btu/h	76,400 95,900		114,700	
Capacity 1) (Rated)		kW	25.2	31.5	37.8	
	Heating	kcal/h	21,700	27,100	32,500	
		Btu/h	86,000 107,500		129,000	
	Cooling	kW	5.89	7.09	9.08	
Input (Rated) 1)	Heating	kW	6.00	7.41	9.95	
Power Factor	Rated	-	0.93	0.93	0.93	
Casing Colour			Warm Grey	Warm Grey	Warm Grey	
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	
_	Туре		Hermetic Sealed Scroll	Hermetic Sealed Scroll	Hermetic Sealed Scroll	
Compressor	Motor Output x Number	W x No.	4,200 x 1	5,300 x 1	5,300 x 1	
	Туре		Propeller Fan	Propeller Fan	Propeller Fan	
	Motor Output x Number	W	124 x 2	250 x 2	250 x 2	
	·	m³/min	140			
Fan	Air Flow Rate (High)	l/s	2,333	3,167	3,167	
	Drive		DC INVERTER	DC INVERTER	DC INVERTER	
	Discharge	Side / Top	Side	Side	Side	
	Liquid	mm (inch)	Ø 9.52(3/8)	Ø 9.52(3/8)	Ø 12.7(1/2)	
Pipe Connections	Gas	mm (inch)	Ø 19.05(3/4)	Ø 22.2(7/8)	Ø 28.58(1-1/8)	
Dimensions (W x H x [D)	mm	950 × 1,380 × 330	1,090 × 1,625 × 380	1,090 × 1,625 × 380	
Net Weight		kg	115	144	157	
	Cooling	dB(A)	57	58	60	
Sound Pressure Level	Heating	dB(A)	57	58	60	
Sound Power Level		dB(A)	69	70	71	
	High pressure protection	-	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	High pressure sensor / High pressure switch	
Protection Devices	Compressor / Fan	-	Over-heat protection / Fan driver overload protector	Over-heat protection / Fan driver overload protector	Over-heat protection / Fan driver overload protector	
	Inverter -		Over-heat protection / Over-current protection	Over-heat protection / Over-current protection	Over-heat protection / Over-current protection	
Communication Cable No. x mm 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	
Refrigerant	Precharged Amount kg		3.5	3.0	6.0	
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Power Supply V, Ø, Hz		V, Ø, Hz	380-415,3,50	380-415,3,50	380-415,3,50	
Number of maxmum connectable indoor units 3)			13	16	20	

- 1. Capacities are based on the following conditions:
- Cooling Temperature : Indoor 27°C(80.6°F) DB / 19°C(66.2°F) WB
 Heating Temperature : Indoor 20°C(68°F) DB / 15°C(59°F) WB
 WB / George Temperature : Undoor 20°C(68°F) DB / 15°C(59°F) WB
 WB / George Temperature : Undoor 20°C(68°F) DB / 15°C(59°F) WB
- Piping Length : Interconnected Pipe Length = 7.5m Difference Limit of Elevation (Outdoor ~ Indoor Unit) is Zero.
- 2. The maximum combination ratio is 160%.
- Wiring cable size must comply with the applicable local and national code
 Due to our policy of innovation some specifications may be changed without notification.
- 5. Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
- 6. Power factor could vary less than \pm 1% according to the operating conditions.

MULTI V S HEAT RECOVERY

ARUB060GSS4



Model ARUBOGOSSA Capacity (Rated)*** Cooling Nom kW 15.5 Power Input (Rated)*** Cooling Nom kW 18.0 Power Input (Rated)*** Cooling Nom kW 3.97 EER Facility (Rated)*** Nom kW 3.90 COP Facility (Rated)*** Power Input (Rated)** 1.90 4.93 COP Jay Searcis (Rated)** Power Input (Rated)** 4.93 Power Input (Rated)** Jay Cooling 4.93 COP Jay Searcis (Rated)** 4.93 Power Input (Rated)** Jay Cooling Power Counced Jay Cooling 4.88 Power Counced Inch (Power Law)** Power Cooling No. Input (Power Law)** Power Cooling No. Input (Power Law)** Power Cooling Biol (A) Power Law)	CLASS				6			
Capacity (Rated)**) Heating Nom kW 18.0 Power Input (Rated)**) Cooling Nom kW 3.97 EER V 4.0 3.90 COP Fee 6.0 1.0 4.39 Compressor Peston Displacement Motor Output 0.0 m*/rev 4.38 Compressor Startius Method w 4.38 Fan Displacement Motor Output Number W 4.200 Motor Output Number W 1.24 ± 2 Motor Output Number M 1.0 1.0 Motor Output Number M N 1.24 ± 2 Motor Output Number M M 1.0 1.0 Motor Output Number <td>Model</td> <td></td> <td></td> <td></td> <td>ARUB060GSS4</td>	Model				ARUB060GSS4			
Heating Nom kW 3.97	Cit (D-td)1)	Cooling	Nom	kW	15.5			
Power Injute (Rated) Power Injute (Rated) Power Injute (Rated) Power Supply	Capacity (Nateu)	Heating	Nom	kW	18.0			
Feeting	Danier Janut (Date d) 1)	Cooling	Nom	kW	3.97			
COP 4.39 Compressor Fiston Displacement Piston Pis	Power input (Rated) 7	Heating	Nom	kW	4.10			
Compressor Type Moto Output cm³/rev 4.3.8 Motor Output W 4,200 Earning Method Toch Inverter Starting Fan Type Axial Flow Fan Motor Output x Number W 124 x 2 Motor Output X Number No. Xe Tom 110 Motor Output X Number Dischard Side Tom Motor Output X Number Side Tom No. Xe Tom 950 x 13.80 x 30 Motor Output X Number Kg 118 Motor Output X Number	EER				3.90			
Compressor Piston Displacement cm²/rev 43.8 Motor Output W 4,200 Fan Starting Method V Axial Flow Fan Motor Output x Number W 124 x 2 Motor Output x Number W 124 x 2 Mymin 110 110 Fér/inin 3,885 5 Drive DI NIVERTER 5ide Discharge Side / Top Side Discharge Side / Top Side Low Pressure Gas mm (inch) Ø 9.52 (3/8) Low Pressure Gas mm (inch) Ø 15.88 (5/8) Dimensions (W x H x D) mm 950 x 1,380 x 330 Net Weight kg 118 Sound Pressure Level Cooling dB(A) 56 Heating dB(A) 58 Sound Power Level Cooling dB(A) 69 Heating dB(A) 71 Communication Cable (VCTF-SB) No x mm² 2Cx 1.0 - 1.5 Refriger	COP				4.39			
Compressor Motor Output W 4,200 Fan Motor Output x Number		Туре			Hermetically Sealed Scroll			
Motor Output W A,200	Compressor	Piston Displacement		cm³/rev	43.8			
Fan Motor Output x Number W 124 x 2 Fan Aris Flow Rate (High) W 124 x 2 Air Flow Rate (High) m³/min 110 Fit³/min 3,885 Drive DC INVERTER Discharge Side / Top Side Discharge Side / Top Side Pipe Connections Liquid mm (inch) Ø 9.52 (3/8) Bid Pressure Gas mm (inch) Ø 19.05 (3/4) Miph Pressure Gas mm (inch) Ø 19.05 (3/4) Miph Pressure Gas mm (inch) Ø 19.05 (3/4) Not Weight kg 118 Sound Power Level Aleating dB(A) 56 Heating dB(A) 58 Sound Power Level (VCTF-SB) No. x m² 2cx 1.0 - 1.5 Refrigerant Name Refrige	Compressor	Motor Output		W	4,200			
Fan Autor Output x Number		Starting Method			DC Inverter Starting			
Fan Air Flow Rate (High) m²/min 110 Fan Air Flow Rate (High) m²/min 3,885 Drive DC INVERTER Discharge Liquid mm (inch) 0 9.52 (3/8) Dimensions (W x H x D) Liquid mm (inch) 0 9.52 (3/8) Dimensions (W x H x D) mm (inch) 0 9.52 (3/8) Dimensions (W x H x D) mm (inch) 0 9.52 (3/8) Dimensions (W x H x D) mm (inch) 0 9.52 (3/8) Dimensions (W x H x D) mm (inch) 0 9.52 (3/8) Dimensions (W x H x D) mm (inch) 0 9.52 (3/8) Dimensions (W x H x D) mm (inch) 0 9.52 (3/8) Dimensions (W x H x D) mm (inch) 0 9.52 (3/8) Memory (Solida) Mm (inch) 0 9.52 (3/8) Dimensions (W x H x D) Mm (i		Туре			Axial Flow Fan			
Fan Augustian (High) ft ²/min 3,885 Drive DC INVERTER Discharge Side / Top Side Pipe Connections Liquid mm (inch) Ø 9.52 (3/8) Pipe Connections Low Pressure Gas mm (inch) Ø 19.05 (3/4) High Pressure Gas mm (inch) Ø 15.88 (5/8) Dimensions (W x H x D) mm 950 x 1,380 x 330 Net Weight kg 118 Sound Pressure Level Cooling dB(A) 56 Heating dB(A) 58 Sound Power Level Cooling dB(A) 69 Heating dB(A) 69 Heating dB(A) 71 Communication Cable (VCTF-SB) No. x mm² 2C x 1.0 - 1.5 Refrigerant Name R410A 3.5 Refrigerant Coll kg 3.5 Control Electronic Expansion Valve FVC GB(PVE) Charge cc 1,300 Power Supply V, Ø, Hz 220-240, 1, 50		Motor Output x Number		W	124 x 2			
Price	Fan	Air Flow Pata (High)		m³/min	110			
Discharge Side Top Side	rdii	Air Flow Rate (High)		ft³/min	3,885			
Pipe Connections Liquid mm (inch) Ø 9.52 (3/8) Pipe Connections Low Pressure Gas mm (inch) Ø 19.05 (3/4) High Pressure Gas mm (inch) Ø 15.88 (5/8) Dimensions (W x H x D) mm 950 x 1,380 x 330 Net Weight kg 118 Sound Pressure Level Cooling dB(A) 56 Heating dB(A) 58 Sound Power Level Cooling dB(A) 69 Heating dB(A) 71 Communication Cable (VCTF-SB) No. x mm² 2C x 1.0 - 1.5 Refrigerant Name R410A 3.5 Precharged Amount kg 3.5 t-CO,eq 7.3 Electronic Expansion Valve Refrigerant Oil Type FVC68D(PVE) Charge Cc 1,300 Power Supply V, Ø, Hz 220-240, 1,50		Drive			DC INVERTER			
Pipe Connections Low Pressure Gas mm (inch) Ø 19.05 (3/4) Dimensions (W x H x D) mm 950 x 1,380 x 330 Net Weight kg 118 Sound Pressure Level Cooling dB(A) 56 Heating dB(A) 58 Sound Power Level Cooling dB(A) 69 Heating dB(A) 71 Communication Cable (VCTF-SB) No. x mm² 2C x 1.0 - 1.5 Refrigerant Name R410A Precharged Amount kg 3.5 t-CO ₂ eq 7.3 Control Electronic Expansion Valve Refrigerant Oil Type FVC68D(PVE) Charge cc 1,300 Power Supply V, Ø, Hz 220-240, 1, 50		Discharge		Side / Top	Side			
High Pressure Gas mm (inch) Ø 15.88 (5/8) Dimensions (W x H x D) mm 950 x 1,380 x 330 Net Weight kg 118 Sound Pressure Level Cooling dB(A) 56 Heating dB(A) 58 Sound Power Level Cooling dB(A) 69 Heating dB(A) 71 Communication Cable (VCTF-SB) No. x mm² 2C x 1.0 - 1.5 Refrigerant Name R410A R410A Precharged Amount kg 3.5 t-CO₂eq 7.3 7.3 Control Electronic Expansion Valve Refrigerant Oil Type FVC68D(PVE) Charge cc 1,300 Power Supply V, Ø, Hz 220-240, 1, 50		Liquid		mm (inch)	Ø 9.52 (3/8)			
Dimensions (W x H x D) mm 950 x 1,380 x 330 Net Weight kg 118 Sound Pressure Level Cooling dB(A) 56 Heating dB(A) 58 Sound Power Level Cooling dB(A) 69 Heating dB(A) 71 Communication Cable (VCTF-SB) No. x mm² 2C x 1.0 ~ 1.5 Refrigerant Name R410A Precharged Amount kg 3.5 t-CO ₂ eq 7.3 Control Electronic Expansion Valve Refrigerant Oil Type FVC68D(PVE) Charge cc 1,300 Power Supply V, Ø, Hz 220-240, 1, 50	Pipe Connections	Low Pressure Gas		mm (inch)	Ø 19.05 (3/4)			
Net Weight kg 118 Sound Pressure Level Cooling dB(A) 56 Heating dB(A) 58 Sound Power Level Cooling dB(A) 69 Heating dB(A) 71 Communication Cable (VCTF-SB) No. x mm² 2C x 1.0 ~ 1.5 Refrigerant Name R410A Precharged Amount kg 3.5 t-CO ₂ eq 7.3 Control Electronic Expansion Valve Refrigerant Oil Type FVC68D(PVE) Charge cc 1,300 Power Supply V, Ø, Hz 220-240, 1, 50		High Pressure Gas		mm (inch)	Ø 15.88 (5/8)			
Cooling	Dimensions (W x H x D)			mm	950 × 1,380 × 330			
Sound Pressure Level Heating dB(A) 58 Sound Power Level Cooling dB(A) 69 Heating dB(A) 71 Communication Cable (VCTF-SB) No. x mm² 2C x 1.0 − 1.5 Refrigerant Name R410A Precharged Amount kg 3.5 t-CO₂eq 7.3 Control Electronic Expansion Valve Refrigerant Oil Type FVC68D(PVE) Charge cc 1,300 Power Supply V, Ø, Hz 220-240, 1, 50	Net Weight			kg	118			
Heating dB(A) 58	Count December 1 and	Cooling		dB(A)	56			
Sound Power Level Heating dB(A) 71 Communication Cable (VCTF-SB) No. x mm² 2C x 1.0 - 1.5 Refrigerant Name Refrigerant Name RA10A Precharged Amount kg 3.5 t-CO ₂ eq 7.3 Control Electronic Expansion Valve Refrigerant Oil Type FVC68D(PVE) Charge cc 1,300 Power Supply V, Ø, Hz 220-240, 1, 50	Souria Pressure Level	Heating		dB(A)	58			
Heating dB(A) 71	Cound Dowar Lovel	Cooling		dB(A)	69			
Refrigerant Name R410A Precharged Amount kg 3.5 t-CO2eq 7.3 Control Electronic Expansion Valve FVC68D(PVE) Charge cc 1,300 Power Supply V, Ø, Hz 220-240, 1,50	Sourid Power Level	Heating		dB(A)	71			
Refrigerant Precharged Amount kg 3.5 t-CO₂eq 7.3 Control Electronic Expansion Valve Refrigerant Oil Type FVC68D(PVE) Charge cc 1,300 Power Supply V, Ø, Hz 220-240, 1,50	Communication Cable	(VCTF-SB)		No. x mm ²	2C x 1.0 ~ 1.5			
Refrigerant t-CO ₂ eq 7.3 Control Electronic Expansion Valve FVC68D(PVE) Charge cc 1,300 Power Supply V, Ø, Hz 220-240 , 1 , 50		Refrigerant Name			R410A			
Control Flectronic Expansion Valve	Defricana	Precharged Amount kg		kg	3.5			
Refrigerant Oil Type FVC68D(PVE) Charge cc 1,300 Power Supply V, Ø, Hz 220-240 , 1 , 50	Reingerant	t-CO ₂ eq			7.3			
Refrigerant Oil Charge cc 1,300 Power Supply V, Ø, Hz 220-240 , 1 , 50		Control			Electronic Expansion Valve			
Charge cc 1,300 Power Supply V, Ø, Hz 220-240, 1,50	Refrigerant Oil	Туре			FVC68D(PVE)			
W and the second		Charge		СС	1,300			
Notes for a second like the size	Power Supply			V, Ø, Hz	220-240 , 1 , 50			
Number of maxmum connectable indoor units 13	Number of maxmum conn	Number of maxmum connectable indoor units			13			

- 1. 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 20°C(68°F) DB / 15°C(59°F) WB / Outdoor 7°C(44.6°F) DB / 6°C(42.8°F) WB 2. The maximum combination ratio is 160%.
- 3. Wiring cable size must comply with the applicable local and national codes.
- Due to our policy of innovation some specifications may be changed without notification.
 Sound Level Values are measured at Anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
 Power factor could vary less than ±1% according to the operating conditions.
 This product contains Fluorinated greenhouse gases.(R410A, GWP(Global warming potential) = 2087.5)



Find out more lg.com/au/commercial-air-conditioning