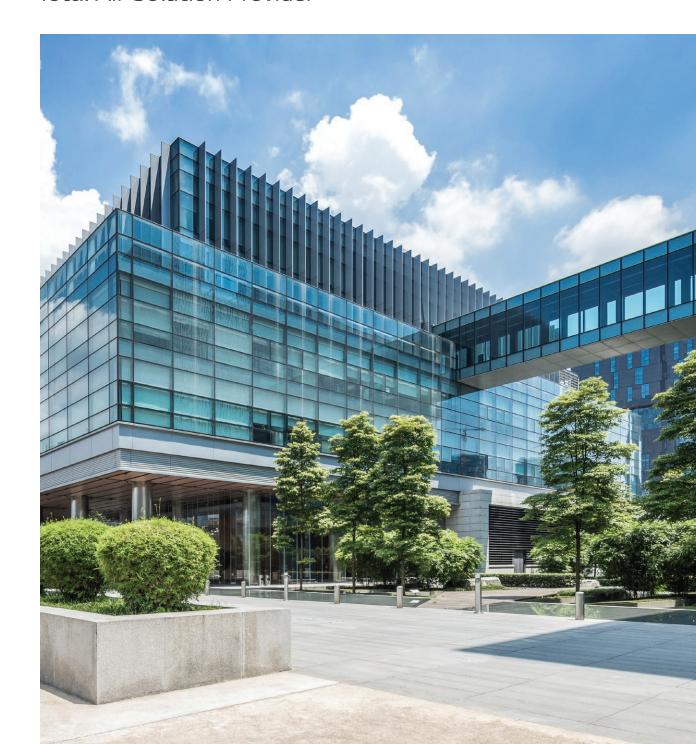


Total Air Solution Provider



LINE-UP

OUTDOOR UNITS LINE-UP

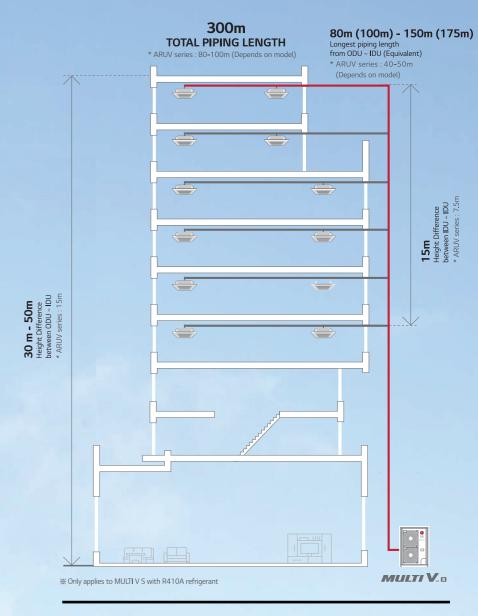
Unit : HP / o 220V, 1Φ / ● 380V, 3Φ / CO ▲ 220V, 1Φ

Features	Appearance	3	4	5	6	8	10	12
		A	A	A	A			
 Space saving Flexible design applications Slim, light, and broad range (4 - 12 HP) Large number of connectable indoor units (Up to 20 Units) For small / medium building 			0•	0•	0			
• For Small / medium building						•	•	•

MULTI V_{IM} S

- Air Cooled VRF mini Cooling only & Heat pump
- 9.2 ~ 33.6kW (Cooling capacity based)
- Both 1Ø, 220 ~ 240V, 50Hz and 3Ø, 380 ~ 415V, 50Hz
- Side discharge outdoor unit







Energy savings



Reliabilit



Convenience

How does it work?

Available in Heat Pump and Heat Recovery Configurations



Combination of Cooling, Heating and Hot Water Solution



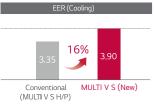
※ Heat Pump and Recovery are separated models.

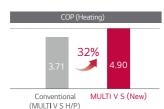
ENERGY SAVINGS

EER / COP / Part Load

Cost savings with energy efficiency

Heat Pump





Comparison Based on 15.5kW in cooling mode

Comparison Based on 15.5kW in heating mode

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.

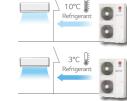


- Energy efficiency increased by 3-step Smart Load Control during startup phase
 Discharge air temperature adjusted according to outdoor and indoor temperature
- Discharge air temperature adjusted according to outdoo
 Comfort level in cooling / heating operations ensured

Max.10% Energy saving

Real Time Operation

Refrigerant 20°C



Smart Load Control

Fixed refrigerant temperatur

Variable 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. ESEER (European seasonal energy efficiency Ratio) conditions based on 15.5kW unit

- Outdoor temperature condition:
 EER 100% / 75% / 50% / 25% = 35°C (DB) / 30°C (DB) / 25°C (DB) / 20°C (DB)
- Indoor temperature condition : 27°C (DB) / 19°C (WB)
- Dual sensing (Temperature & humidity) Smart Load Control is possible with Remote controller PTEMTB100 (White) / PREMTBB10 (Black)

Inverter Twin Rotary & Inverter Scroll Compressor

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

- $\mbox{-}$ 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 by Increased reliability with regulated oil supply.
- Efficiency increases by expanding 96% Bypass area and 17% improved volume ratio by nonuniform 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 for both heating and cooling operations. With this smart path selection technology, an average of 6% increase in the efficiency of both operations has been achieved. The paths number and circuit velocity are adjusted to match temperatures and operation modes in order to maximize efficiency instead of compromising efficiency for each operation when the number and direction of paths are fixed independently of temperature operation mode.



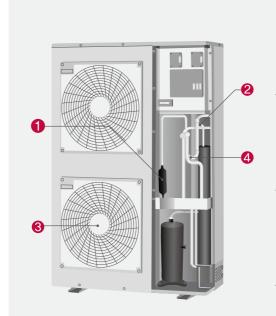




RELIABILITY

Reliable Refrigerant Components

LG technology allows for superior performance and component durability



MULTI V S improved reliability with advanced technology:

- Oil separator
- Accumulator
- Sub-cooling

O Cyclonic oil separator

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



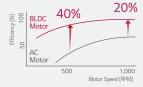
2 Large Volume Accumulator

- Improved reliability by adopting the large volume accumulator (38% volume up compared to conventional)
- Prevents the liquid refrigerant entering the compressor suction
- Maximize efficiency by optimal amount of refrigerant
- Protects compressor breakdown to increase product lifetime



3 BLDC Fan Motor

The BLDC Fan motor is more efficient than a conventional AC motor, offering an additional 40% energy savings at low speeds and 20% at high speeds



Double Sub-cool Interchanger

- Reliability is enhanced by minimizing pressure drop due to high efficiency spiral structure and 2 times larger size
- \rightarrow Long pipe is possible (up to* 175m) and high elevation (up to* 50m)
- → Reduction of indoor refrigerant noise level
- * Based on equivalent pipe length



Double Sub-cool Interchanger

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 exact response to load variation.



High Pressure Low Pressure Sensor Sensor

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.

X Specifications may vary for each model.

Corrosion Resistance Black Fin

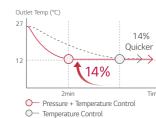
Strong Durability against high salinity and heavily polluted air

corrosive environments like salt concentration in coastal towns or severe air

product's lifespan and lowers both the operational and maintenance costs.

pollution in industrial cities keeps. This improvement in durability prolongs the

Ocean Black Fin ensures continued operation of MULTI V S in highly



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
 Declared by TLIV Rheinland
- Declared by TUV Rheinland - Test Method B of ISO21207
- Test condition : Salt contaminated condition + severe industrial / traffic environment (NO 2 / SO 2)

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.



Hydrophilic film (Water flow)

The Hydrophilic coating minimizes moisture buildup on the fin

— Acryl + Epoxy + Melamine resin (Corrosion resistant)

The Black coating provides strong protection from corrosion

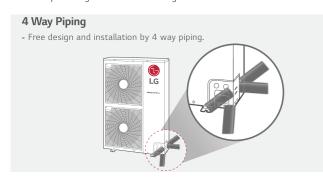
004 / 005

IMPROVED USER CONVENIENCE

Sufficient Piping Length

Increased piping length allows for flexible design and installation

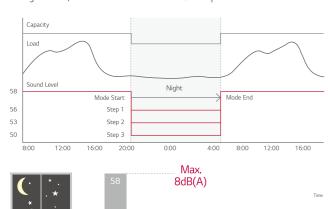
MULTI V S inverter technology and sub cooling control circuit technology allows greater piping length and outstanding elevation differences. A cooling system can be implemented more flexibly in a shop, office and even high-rise building, reducing the designer's work time and providing more efficient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



Low Noise Operation

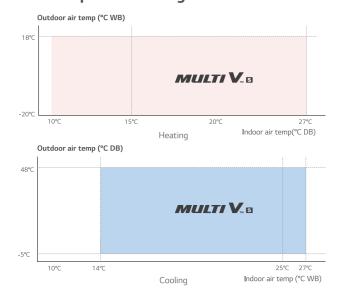
Decreased noise during operation with low noise functionality

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



1m distance / 1.5m height

Wider Operation Range



Fan Technology and RPM Control

External static pressure control for outdoor unit fan to adapt more flexibly to various installation conditions of outdoor unit

For enhanced efficiency, new axial fan boasts higher air volume, increased static pressure and decreased noise.

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

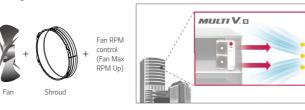


Super cannon fan increases the air volume in 50 CMM and the noise level is decreased by 4dB(A).



Fan RPM control

Flow of air is straight due to fan shroud and Fan RPM control even in high-rise



- · 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



MULTI V S COOLING ONLY

ARUV030GSD5 / ARUV040GSD5 ARUV050GSD5 / ARUV060GSD5





	HP		3	4	5	6	
Model Name	Combination Unit		ARUV030GSD5	ARUV040GSD5	ARUV050GSD5	ARUV060GSD5	
		kW	9.2	11.0	14.5	16.0	
	Cooling	Btu/h	31.400	37,600	49.500	54,600	
Capacity (Rated)		kW			-		
	Heating	Btu/h	-			_	
	Cooling	kW	2.36	2.89	3.62	4.50	
Pipe Connections Dimensions (W×H×D) Weight Sound Pressure Level Protection Devices Communication Cable Refigerant Power Supply	Heating	kW	-	-		-	
EER (Rated)		W/W	3.90	3.81	4.01	3.56	
		W/W	-	-	-	-	
		,	Warm Gray	Warm Gray	Warm Gray	Warm gray	
			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	
	Туре		Twin Rotary	Twin Rotary	LG Inverter Scroll	LG Inverter scroll	
	Piston Displacement	cm³/rev	20.8	20.8	31.6	31.6	
Compressor	Number of Revolution	rev/min	3,600	3,600	3,600	3,600	
,	Motor Output	W × No.	1,500 × 1	1,500 × 1	3,198 × 1	3,198 × 1	
	Oil Type		FW68D (PVE)	FW68D (PVE)	FW68D	FW68D	
	Туре		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	
Fan	Motor Output × Number	W × No.	124.2 × 1	124.2 × 1	198 × 1	198 × 1	
	Air Flow Rate(High)	m³/min	60	60	80	80	
	Max. External Static Pressure	Pa	30	30	30	30	
	Drive		DC Inverter	DC Inverter	DC Inverter	DC Inverter	
	Discharge	Side/Top	Side	Side	Side	Side	
	Liquid	mm (inch)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	Ø 9.52 (3/8)	
Pipe Connections	Gas	mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)	
Dimensions (W×H×D)	Net	mm	950 × 834 × 330	950 × 834 × 330	950 × 834 × 330	950 × 834 × 330	
	Net	kg	53	53	67	67	
	Cooling	dB(A)	52	52	53	56	
Sound Pressure Level	Heating	dB(A)	-	-	-	-	
	High pressure protection	-	-	-	-	-	
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	Over-heat protection Fan driver overload protecto	
	Inverter	-	Over-heat protection Over-current protection	Over-heat protection Over-current protection	Over-heat protection Over-current protection	Over-heat protection Over-current protection	
		No. × mm² (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	
	Refigerant name		R410A	R410A	R410A	R410A	
Refigerant	Precharged Amount	kg	1.0	1.0	2.0	2.0	
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valv	
Power Supply		Ф, V, Hz	1, 220~240, 50	1, 220~240, 50	1, 220~240, 50	1, 220~240, 50	
Number of maxmum o	connectable indoor units		5	6	8	9	

- 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 20°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 160%. (the maximum combination ratio of ARUV*** (Cooling only model) is 130%.)

- 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.
- 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 reverberation rooms by ISO 3741 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)

MULTIVS HEAT PUMP

ARUN040GSS5 / ARUN050GSS5 / ARUN060GSS5



	НР		4	5	6	
Model Name	Combination Unit		ARUN040GSS5	ARUN050GSS5	ARUN060GSS5	
		kW	12.1	14.0	15.5	
	Cooling	Btu/h	41,300	47,800	52,900	
Capacity (Rated)		kW	12.5	16.0	18.0	
	Heating	Btu/h	42,700	54,600	61,400	
	Cooling	kW	3.06	3.33	14.0 15.5 47,800 52,900 16.0 18.0 54,600 61,400 3.33 3.97 3.48 4.29 4.20 3.90 4.60 4.20 Warm Gray Warm Gray Wide Louver Plus Uide Louver Plus LG Inverter Scroll LG Inverter Scroll 31.6 31.6 3,600 3,600 3,198 × 1 3,198 × 1 FW68D FW68D Axial Flow Fan Axial Flow Fan 198 × 1 198 × 1 80 80 30 30 DC Inverter DC Inverter Side Side Ø 9.52 (3/8) Ø 9.52 (3/8) Ø 15.88 (5/8) Ø 19.05 (3/4) 950 × 834 × 330 950 × 834 × 330 72 72 57 57 60 63 High pressure sensor Fan driver overload protector Over-heat protection Over-heat protection	
Input (Rated)	Heating	kW	2.90	3.48	4.29	
EER (Rated)		W/W	3.95	4.20	3.90	
COP (Rated)		W/W	4.31	4.60	4.20	
Casing Color			Warm Gray	Warm Gray	Warm Gray	
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus	
-	Туре		LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll	
Compressor	Piston Displacement	cm³/rev	31.6	31.6	31.6	
	Number of Revolution	rev/min	3,600	3,600	3,600	
	Motor Output W × No.		3,198 × 1	3,198 × 1	3,198 × 1	
	Oil Type		FW68D	FW68D	FW68D	
	Туре		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	
Fan	Motor Output × Number	W × No.	124 × 1	198 × 1	198 × 1	
	Air Flow Rate(High)	m³/min	60	80	80	
	Max. External Static Pressure	Pa	30	30	30	
	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 9.52 (3/8)	
Pipe Connections	Gas	mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)	
Dimensions (W×H×D)	Net	mm	950 × 834 × 330	950 × 834 × 330	950 × 834 × 330	
Weight	Net	kg	65	72	72	
	Cooling	dB(A)	51	57	57	
Sound Pressure Level	Heating	dB(A)	55	60	63	
	High pressure protection	-	High pressure sensor Fan driver overload protector	High pressure sensor Fan driver overload protector	High pressure sensor Fan driver overload protector	
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			
Communication Cable	1	No. × mm² (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	
	Refigerant name		R410A	R410A	R410A	
Refigerant	Precharged Amount	kg	1.8	2.4	2.4	
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve	
Power Supply		Ф, V, Hz	1, 220~240, 50	1, 220~240, 50	1, 220~240, 50	
Number of maxmum of	connectable indoor 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 (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

 3. The maximum combination ratio is 160%. (the maximum combination ratio ARUV*** (Cooling only model) is 130%.)

- 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 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 reverberation rooms by ISO 3741 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)

MULTIVS HEAT PUMP

ARUN040LSS5 / ARUN050LSS5 / ARUN060LSS5



	HP		4	5	6
Model Name			ARUN040LSS5	ARUN050LSS5	ARUN060LSS5
	Carlina	kW	12.1	14.0	15.5
o : (p · 1)	Cooling	Btu/h	41,300	47,800	52,900
Capacity (Rated)		kW	12.5	16.0	18.0
	Heating	Btu/h	42,700	54,600	61,400
/=	Cooling	kW	3.06	3.33	3.97
Input (Rated)	Heating	kW	2.90	3.48	4.29
EER (Rated)		W/W	3.95	4.20	3.90
COP (Rated)		W/W	4.31	4.60	4.20
Casing Color			Warm Gray	Warm Gray	Warm Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		LG Inverter Scroll	LG Inverter Scroll	LG Inverter Scroll
	Piston Displacement cm³/rev		31.6	31.6	31.6
Compressor	Number of Revolution	rev/min	3,600	3,600	3,600
	Motor Output W × No.		3,198 × 1	3,198 × 1	3,198 × 1
	Oil Type		FW68D	FW68D	FW68D
	Туре		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
Fan	Motor Output × Number	W × No.	124 × 1	198 × 1	198 × 1
	Air Flow Rate(High)	m³/min	60	80	80
	Max, External Static Pressure	Pa	30	30	30
	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 9.52 (3/8)
Pipe Connections	Gas	mm (inch)	Ø 15.88 (5/8)	Ø 15.88 (5/8)	Ø 19.05 (3/4)
Dimensions (W×H×D)	Net	mm	950 × 834 × 330	950 × 834 × 330	950 × 834 × 330
Weight	Net	kg	65	72	72
	Cooling	dB(A)	51	57	57
Sound Pressure Level	Heating	dB(A)	55	60	63
	High pressure protection	-	High pressure sensor Fan driver overload protector	High pressure sensor Fan driver overload protector	High pressure sensor Fan driver overload protector
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	1	No. × mm² (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
	Refigerant name		R410A	R410A	R410A
Refigerant	Precharged Amount	kg	1.8	2.4	2.4
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ф, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
	connectable indoor units		8	10	13

- 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 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 20°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 160%. (the maximum combination ratio of ARUV*** (Cooling only model) is 130%.)

- The maximum combination ratio is 160% (the maximum combination ratio of ARCV^{****} (Cooling only model) is 150%.)
 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 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 reverberation rooms by ISO 3741 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)

008 / 009

MULTIVS HEAT PUMP

ARUN080LSS0 / ARUN100LSS0 / ARUN120LSS0



	HP		8	10	12
Model Name	Combination Unit ARUN080LSS0		ARUN080LSS0	ARUN100LSS0	ARUN120LSS0
	Carlina	kW	22.4	28.0	33.6
Capacity (Rated)	Cooling	Btu/h	76,400	95,900	114,700
	11 - 22	kW	25.2	31.5	37.8
	Heating	Btu/h	86,000	107,500	129,000
(5 1)	Cooling	kW	5.89	7.09	9.08
Input (Rated)	Heating	kW	6.00	7.41	9.95
EER (Rated)		W/W	3.80	3.95	3.70
COP (Rated)		W/W	4.20	4.25	3.80
Casing Color			Warm Gray	Warm Gray	Warm Gray
Heat Exchanger			Wide Louver Plus	Wide Louver Plus	Wide Louver Plus
	Туре		Hermetically Sealed Scroll	Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Piston Displacement cm³/rev		43.8	62.1	62.1
Compressor	Number of Revolution	rev/min	3,600	3,600	3,600
	Motor Output	W × No.	4,200 × 1	5,300 × 1	5,300 × 1
	Oil Type		FVC68D(PVE)	FVC68D(PVE)	FVC68D(PVE)
	Туре		Propeller fan	Propeller fan	Propeller fan
Fan	Motor Output × Number	W × No.	124 × 2	250 × 2	250 × 2
	Air Flow Rate(High)	m³/min	140	190	190
	Max, External Static Pressure	Pa	30	25	25
	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×H×D)	Net	mm	950 × 1,380 × 330	1,090 × 1,625 × 380	1,090 × 1,625 × 380
Weight	Net	kg	115	142	155
	Cooling	dB(A)	57	58	60
Sound Pressure Level	Heating	dB(A)	57	58	60
	High pressure protection	-	High pressure sensor Fan driver overload protector	High pressure sensor Fan driver overload protector	High pressure sensor Fan driver overload protector
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
		No. × mm² (VCTF-SB)	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5	2C × 1.0 ~ 1.5
	Refigerant name		R410A	R410A	R410A
Refigerant	Precharged Amount	kg	3.5	4.5	6.0
	Control		Electronic Expansion Valve	Electronic Expansion Valve	Electronic Expansion Valve
Power Supply		Ф, V, Hz	3, 380-415, 50	3, 380-415, 50	3, 380-415, 50
Number of maxmum of	connectable indoor units		13	16	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

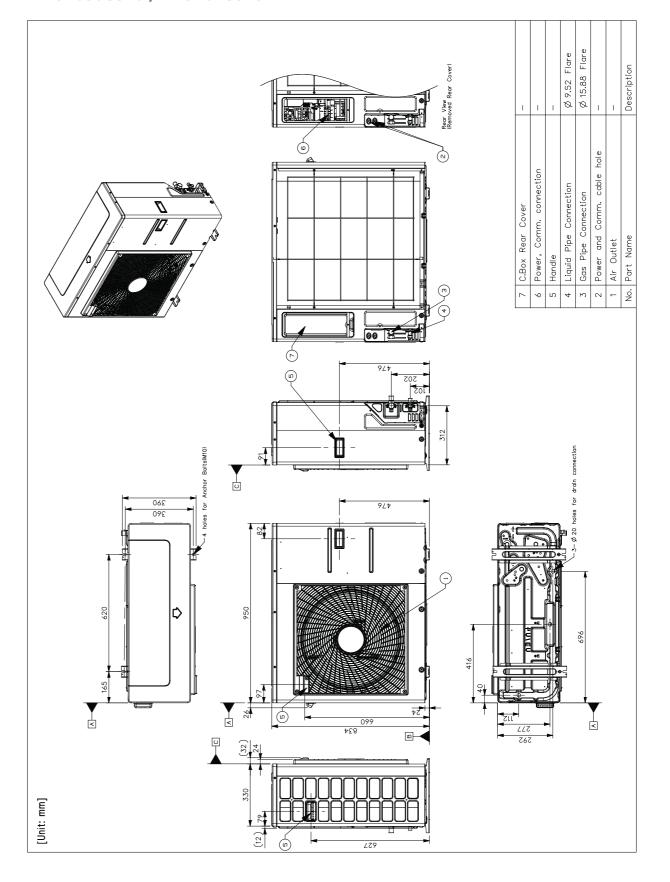
 Heating Temperature: Indoor 20°C (68°F) DB / 15°C (59°F) WB / Outdoor 7°C (44.6°F) DB / 6°C (42.8°F) WB

 3. The maximum combination ratio is 160%. (the maximum combination ratio of ARUV*** (Cooling only model) is 130%.)

- 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 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 reverberation rooms by ISO 3741 standard. 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)

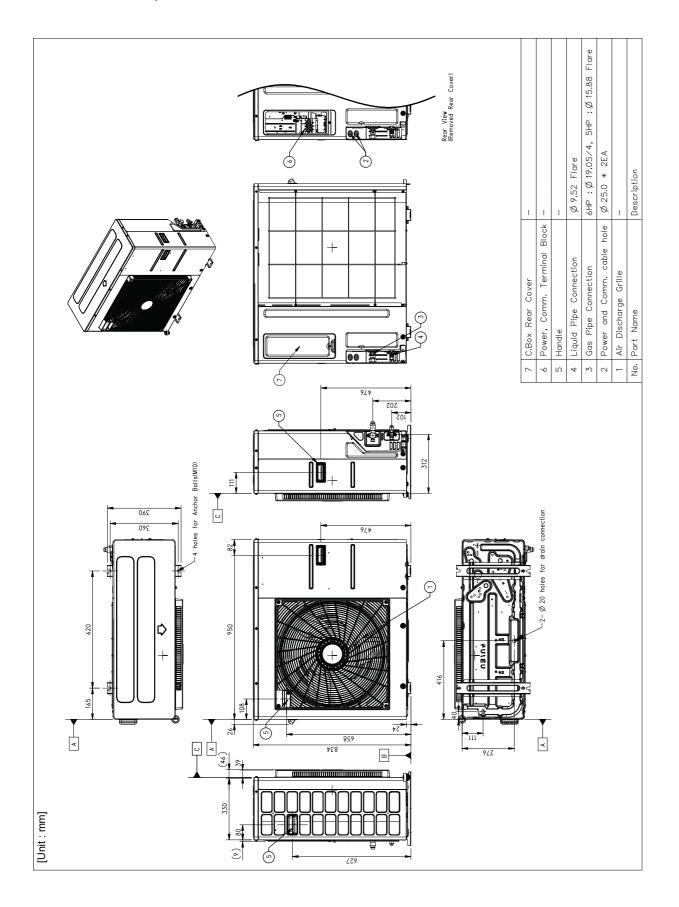
Dimensions

ARUV030GSD5 / ARUV04GSD5



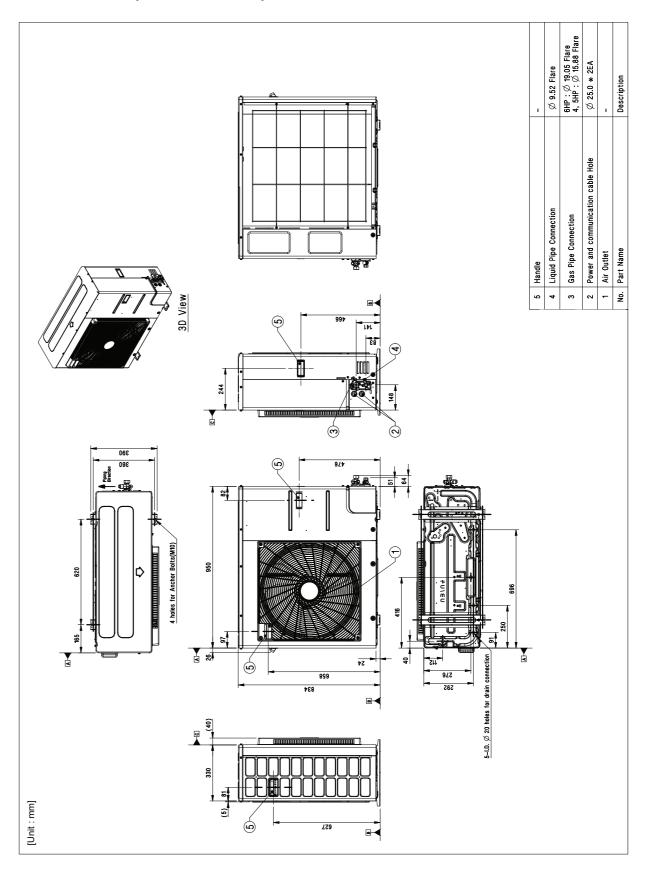
Dimensions

ARUV050GSD5 / ARUV060GSD5



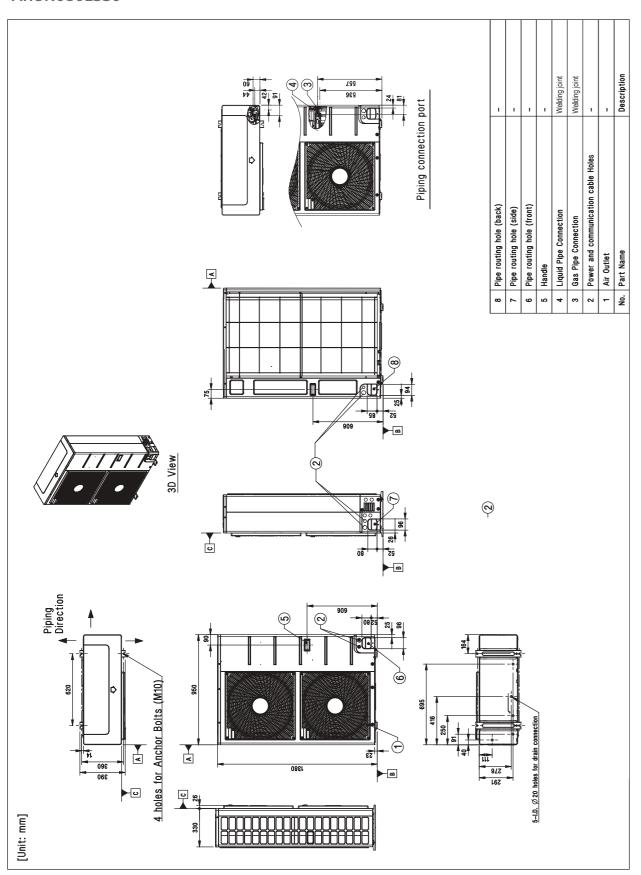
Dimensions

ARUN040GSS5 / ARUN050GSS5 / ARUN060GSS5 ARUN040LSS5 / ARUN050LSS5 / ARUN060LSS5



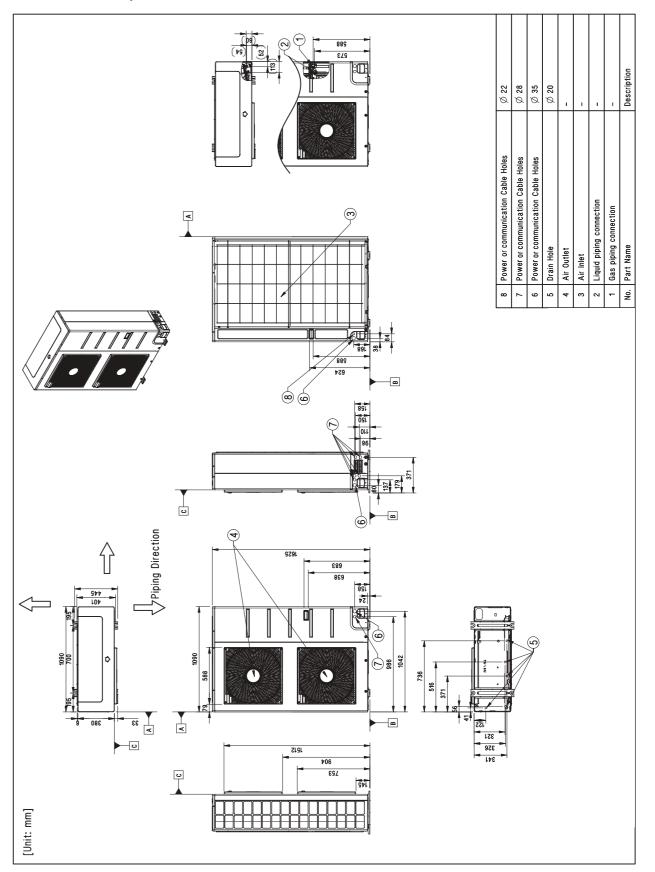
Dimensions

ARUN080LSS0



Dimensions

ARUN100LSS0 / ARUN120LSS0



OUTDOOR UNITS _ MULTI V S _ TECHNICAL DATA

Electric Characteristics

■ Wiring of Main Power Supply and Equipment Capacity

- 1. Use a separate power supply for the Outdoor Unit and Indoor Unit.
- 2. Bear in mind ambient conditions (ambient temperature, direct sunlight, rain liquid, etc.) when proceeding with the wiring and connections
- 3. The wire size is the minimum value for metal conduit wiring. The power cord size should be 1 rank thicker taking into account the line voltage drops. Make sure the power-supply voltage does not drop more than 10%.
- 4. Specific wiring requirements should adhere to the wiring regulations of the region.
- 5. Power supply cords of parts of appliances for outdoor use should not be lighter than polychloroprene sheathed flexible cord (design 60245 IEC57).
- 6. Don't install an individual switch or electrical outlet to disconnect each of indoor unit separately from the power supply.



- Follow ordinance of local regulation for technical standard related to electrical equipment, wiring regulations and guidance of each electric power company.
- Make sure to use specified wires for connections so that no external force is imparted to terminal connections. If connections are not fixed firmly, it may cause heating or fire.
- Make sure to use the appropriate type of overcurrent protection switch. Note that generated overcurrent
 may include some amount of direct current.
- All installation site may require attachment of an earth leakage breaker. If no earth leakage breaker is installed, it may cause an electric shock.

CAUTION

 Do not use anything other than breaker and fuse with correct capacity. Using fuse and wire or copper wire with too large capacity may cause a malfunction of unit or fire.

OUTDOOR UNITS _ MULTI V S _ TECHNICAL DATA

Electric Characteristics

Cooling only

Model	Unit		Power Supply				COMP	OFM				
wodet	Hz	Hz Volts Voltage-range		MCA	TOCA	MFA	MSC	RLA(Cooling)	RLA(Heating)	kW	FLA	
3 HP				20.2	21.3	25	-	9.7	-	0.124	0.5	
4 HP	F0	220-240 Min.:198, Max.:264	220 240	M:100 M204	20.2	21.3	25	-	12.0	-	0.124	0.5
5 HP	50 220-240		22.8	25.1	32	-	16.8	-	0.198	0.9		
6 HP			26.4	29.0	40	-	21.1	-	0.198	0.9		

Heatpump

Model	Unit		Pov	Power Supply			COMP	OFM					
iviodet	Hz	Hz Volts Voltage-range		MCA	TOCA	MFA	MSC	RLA(Cooling)	RLA(Heating)	kW	FLA		
4 HP		220-240		23.6	26.0	30	-	14.5	13.7	0.124	0.5		
5 HP			Min.:198, Max.:264	25.0	27.6	30	-	15.4	16.1	0.198	0.9		
6 HP				26.4	29.0	40	-	18.5	20.1	0.198	0.9		
4 HP		380-415		380-415 Min.:342, Max.:456		14.6	16.1	20	-	4.5	4.2	0.124	0.5
5 HP	50					14.6	16.1	20	-	4.5	4.8	0.198	0.9
6 HP					Min : 2/12 May : //56	14.6	16.1	20	-	5.6	6.1	0.198	0.9
8 HP					21.3	24.0	30.0	4.0	8.4	8.6	0.35	1.0	
10 HP				26.3	35.0	30.0	4.5	9.3	9.5	0.50	2.8		
12 HP				32.5	35.0	35.0	4.5	12.0	13.5	0.50	2.8		

- Voltage supplied to the unit terminals should be within the minimum and maximum range.
- 2. Maximum allowable voltage unbalance between phase is 2%.
- 3. MSC means the Max. current during the starting of compressor.
- 4. MSC and RLA are measured as the compressor only test condition.
- 5. OFM are measured as the outdoor unit test condition.
- 6. TOCA means the total over current value of each outdoor unit.
- 7. Select the wire size based on the larger value among MCA or TOCA.
- MFA is used to select the circuit breaker and ground fault circuit interrupter, and all
 installation site must require attachment of an earth leakage breaker. [circuit breaker
 type is ELCB(Earth Leakage Circuit Breaker)].
- Select the electrical equipment of combination unit according to the electrical characteristics of individual unit.

Symbols

MCA: Minimum Circuit Amperes (A)
TOCA: Total Over Current Amperes (A)

MFA: Maximum Fuse Amperes (A)

MSC: Maximum Starting Current (A)

RLA: Rated Load Amperes (A)
OFM: Outdoor Fan Motor
kW: Fan Motor rated output (kW)

FLA: Full Load Amperes (A)

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LG Vietnam

*For continual product development, LG reserves the right to change specifications or design without notice

This product uses inverter technology, so it can generate harmonics. If local law or the Investor requires harmonic suppression at the construction site, please coordinate with the electrical design unit to take measures to suppress harmonics. Contact your supplier for more detailed information on the electrical characteristics of LG air conditioners.

