



***MULTI V***™ **S**

VRF HEAT RECOVERY AND  
INVERTER HEAT PUMP SOLUTIONS  
WITH **LGRED°**

---

LG Air Conditioning Technologies

---



# ABOUT LG VRF ADVANTAGES

---

## WHY MULTI V™ S?

The LG Multi V S and Multi V S with LGRED° for residential and light commercial applications use a closed refrigerant circuit, connecting one outdoor unit to many indoor units, providing individual zone temperature control solutions. Compact yet powerful, LG's VRF solution is an efficient way to condition any space, providing improved humidity control, individual set points per indoor unit, and a very quiet experience for the occupants.

The Multi V S solutions are capable of heat pump or heat recovery and several models include LGRED° heat technology. In heat recovery, the system allows for simultaneously heating and cooling different zones by using heat energy from one space to condition another, reducing the amount of 'created' energy, further enhancing energy savings. In addition, Multi V S solutions require little to no ductwork, resulting in smaller space requirements which allow for higher interior ceilings, less structural impact, and more usable square footage.



### MAXIMIZE EFFICIENCY

---

#### Smart Load Control

Automatically adjusts operation requirements by sensing both indoor and outdoor conditions

#### Inverter Compressor

Allows the outdoor units to closely match compressor speed with output demand, which translates to a higher energy efficiency



### OPTIMIZE COMFORT

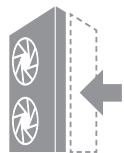
---

#### Individual Zone Control

Allows the user to control the space to the precise temperature desired

#### Quiet Operation

LG Multi V™ Indoor units operate quietly in the interior space, with rated sound levels as low as 23 dB(A)



### VERSATILE SOLUTIONS

---

#### Compact and Lightweight

Connect up to 12 indoor units to one outdoor unit to heat and cool more zones while using less outdoor space (less than 3.4 ft<sup>2</sup>)

#### Design Flexibility

Choose from a wide variety of indoor unit styles, both ducted and non-ducted, including the award-winning LG Art Cool™ Gallery



### SUPERIOR PERFORMANCE

---

#### Powerful Heating

Continuous heating down to -13° F on select models

#### LGRED°

LGRED° models feature 100% heating capacity at 5° F

#### Heat Recovery

Heat and cool different areas simultaneously by taking heat removed from one space in cooling mode and delivering it to a space that requires heating

# APPLICATIONS

LG Multi V S utilizes single-phase and three-phase power so it can be used residentially as well as in a wide range of commercial applications, offering overall increased flexibility and efficiency for property owners.



RESIDENTIAL



LIGHT COMMERCIAL

## About LG Electronics USA

LG Electronics USA, Inc., based in Englewood Cliffs, N.J., is the North American subsidiary of LG Electronics, Inc., a \$68 billion global innovator in technology and manufacturing. In the United States, LG sells a wide range of innovative home appliances, home entertainment products, commercial displays, air conditioning products, energy solutions and vehicle components. LG is a 2023 ENERGY STAR® Partner of the Year-Sustained Excellence. The company's commitment to environmental sustainability and its "Life's Good" marketing theme encompass how LG is dedicated to people's happiness by exceeding expectations today and tomorrow. Please Visit [www.lg.com](http://www.lg.com).

## About LG Electronics Air Conditioning Technologies

LG Electronics USA's Air Conditioning Technologies business is based in Alpharetta, GA. LG is a leading player in the global air conditioning market, distributing both commercial and residential air conditioners and building management solutions. From consumer and individual units to industrial and specialized air conditioning solutions, LG provides a wide range of products for heating, ventilating and air conditioning. The company's industry-leading variable refrigerant flow (VRF) technology minimizes efficiency losses, provides sustainable energy savings, and offers some of the lowest lifecycle costs compared to other systems on the market today. Ten-time ENERGY STAR® Partner of the Year, LG Electronics USA (based in Englewood Cliffs, NJ), is the North American subsidiary of LG Electronics Inc., a \$68 billion global technology and manufacturing. Visit [www.lghvac.com](http://www.lghvac.com) for more information.

# MULTI V™ S WITH LGRED°

## MULTI V™ S HEAT PUMP AND HEAT RECOVERY

**LGRED°**  
Powerful Heat Technology  
RELIABLE TO EXTREME DEGREES

Continuous heating down to -13 °F.  
100% heating capacity at 5°F.



Model	Specifications	Unit	ARUM036GSS5		ARUM048GSS5	
			Heat Pump and Heat Recovery		Heat Pump and Heat Recovery	
Capacity	Heat Pump / Heat Recovery		3		4	
	Tons		3		4	
	Nominal Cooling Capacity <sup>1</sup>	Btu/h	36,000		48,000	
	Nominal Heating Capacity <sup>1</sup>	Btu/h	42,000		54,000	
	Rated Cooling Capacity <sup>2</sup>	Btu/h	36,000		48,000	
Power	Rated Heating Capacity <sup>2</sup>	Btu/h	42,000		54,000	
	Voltage	V / Hz / Ø	208-230/60/1		208-230/60/1	
Operating Range	Power/Communication Wiring <sup>5</sup>	No. x AWG	2 x 18		2 x 18	
	Cooling Operation Range <sup>6</sup>	°F	23 - 122		23 - 122	
Dimensions	Heating Operation Range	°F	-13 - 61		-13 - 61	
	Dimensions (WxHxD)	in	37-13/32 x 54-11/32 x 13		37-3/32 x 54-11/32 x 13	
Weight	Net	lbs	263		263	
	Shipping	lbs	294		294	
Sound Pressure <sup>4</sup>		dB(A)	50/53		52/54	
Fan	Cooling/Heating		Axial Flow Fan x2		Axial Flow Fan x2	
	Air Flow Rate	CFM	4238		4238	
Compressor	Type		Hermetically Sealed Scroll		Hermetically Sealed Scroll	
	Oil Type		FVC68D		FVC68D	
Heat Exchange	Quantity		1		1	
	Coating		Black Coated Fin™ / Hydrophilic / Cooper Tube		Black Coated Fin™ / Hydrophilic / Cooper Tube	
Piping for Heat Recovery Operation	Rows/Fins per inch		3 / 14		3 / 14	
	Liquid Line (OD)	in	3/8		3/8	
	HP/Vapor Line (OD)	in	5/8		5/8	
Piping for Heat Pump Operation	LP/Vapor Line (OD)	in	3/4		3/4	
	Liquid Line (OD)	in	3/8		3/8	
Refrigerant	Vapor Line (OD)	in	5/8		5/8	
	Type		R410A		R410A	
Number of Indoor Units <sup>3</sup>	Charge	lbs	7.7 lbs.		7.7 lbs.	
	Control		EEV		EEV	
	Minimum / Maximum		2/6		2/8	

1. Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80°F dry bulb (DB) and 67°F wet bulb (WB) and outdoor ambient conditions of 95°F dry bulb (DB) and 75°F wet bulb (WB).

Nominal heating capacity rating obtained with air entering the indoor unit at 70°F dry bulb (DB) and 59°F wet bulb (WB) and outdoor ambient conditions of 47°F dry bulb (DB) and 43°F wet bulb (WB).

2. Rated capacity is certified under AHRI Standard 210/240. See [www.ahrinet.org](http://www.ahrinet.org) for information.

3. The System Combination Ratio must be between 50–130%.

4. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.

5. Power wiring is field provided, solid or stranded, and must comply with all local and national codes. Refer to the engineering manual for detailed electrical data.

6. Cooling range with the Low Ambient Baffle Kit (sold separately) is down to -9.9°F.

7. Multi V S units with LGRED° ship from the factory configured for heat recovery operation. For heat pump operation, the DIP switch settings must be set accordingly. See the product installation manual for details.

Due to our commitment to continued innovation, some specifications may be changed without notification.

# MULTI V™ S

## MULTI V™ S HEAT PUMP



Model	Specifications	Unit	ARUN024GSS4	ARUN038GSS4	ARUN048GSS4	ARUN060GSS4
	Heat Pump / Heat Recovery		Heat Pump	Heat Pump	Heat Pump	Heat Pump
	Tons		2	3	4	5
Capacity	Nominal Cooling Capacity <sup>1</sup>	Btu/h	24,000	39,500	50,000	60,000
	Nominal Heating Capacity <sup>1</sup>	Btu/h	27,000	44,000	56,500	64,000
	Rated Cooling Capacity <sup>2</sup>	Btu/h	24,000	38,000	48,000	60,000
	Rated Heating Capacity <sup>2</sup>	Btu/h	27,000	42,000	54,000	64,000
Power	Voltage	V / Hz / Ø	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
	Power/Communication Wiring <sup>5</sup>	No. x AWG	2 x 18	2 x 18	2 x 18	2 x 18
Operating Range	Cooling Operation Range <sup>6</sup>	°F	23 to 122	23 to 122	23 to 122	23 to 122
	Heating Operation Range	°F	-4 to 61	-4 to 61	-4 to 61	-13 to 61
Dimensions	Dimensions (WxHxD)	in	37-13/32 x 32-27/32 x 13	37-13/32 x 54-11/32 x 13	37-13/32 x 54-11/32 x 13	37-13/32 x 54-11/32 x 13
Weight	Net	lbs	159	207	207	260
	Shipping	lbs	176	218	218	291
Sound Pressure <sup>4</sup>		dB(A)	50	50	51	57
Fan	Type		Axial Flow Fan	Axial Flow Fan	Axial Flow Fan	Axial Flow Fan
	Air Flow Rate	CFM	2,119	3,885	3,885	3,885
Compressor	Type		DC Inverter	DC Inverter	DC Inverter	Scroll Inverter
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		1	1	1	1
Heat Exchanger	Coating		Gold Fin / Hydrophilic / Copper Tube	Gold Fin / Hydrophilic / Copper Tube	Gold Fin / Hydrophilic / Copper Tube	Gold Fin / Hydrophilic / Copper Tube
	Rows/Fins per inch		2 / 14	2 / 14	2 / 14	3 / 14
Piping	Liquid Line (OD)	in	3/8	3/8	3/8	3/8
	Vapor Line (OD)	in	5/8	5/8	5/8	3/4
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charge	lbs	4.0	6.6	6.6	7.7
	Control		EEV	EEV	EEV	EEV
Number of Indoor Units <sup>3</sup>	Minimum / Maximum		2 / 4	2 / 6	2 / 8	2 / 12

1. Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80°F dry bulb (DB) and 67°F wet bulb (WB) and outdoor ambient conditions of 95°F dry bulb (DB) and 75°F wet bulb (WB).

Nominal heating capacity rating obtained with air entering the indoor unit at 70°F dry bulb (DB) and 59°F wet bulb (WB) and outdoor ambient conditions of 47°F dry bulb (DB) and 43°F wet bulb (WB).

2. Rated capacity is certified under AHRI Standard 210/240. See [www.ahrinet.org](http://www.ahrinet.org) for information.

3. The System Combination Ratio must be between 50–130%.

4. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.

5. Power wiring is field provided, solid or stranded, and must comply with all local and national codes. Refer to the engineering manual for detailed electrical data.

6. Cooling range with the Low Ambient Baffle Kit (sold separately) is -9.9°F to +12.2°F.

Due to our commitment to continued innovation, some specifications may be changed without notification.

# MULTI V™ S

## MULTI V™ S HEAT RECOVERY



Model	Specifications	Unit	ARUB060GSS4
Capacity	Heat Pump / Heat Recovery		Heat Recovery
	Tons		5
	Nominal Cooling Capacity <sup>1</sup>	Btu/h	60,000
	Nominal Heating Capacity <sup>1</sup>	Btu/h	60,000
	Rated Cooling Capacity <sup>2</sup>	Btu/h	60,000
Power	Rated Heating Capacity <sup>2</sup>	Btu/h	60,000
	Voltage	V / Hz / Ø	208-230/60/1
Operating Range	Power/Communication Wiring <sup>5</sup>	No. x AWG	2 x 18
	Cooling Operation Range <sup>6</sup>	°F	23 to 122
Dimensions	Heating Operation Range	°F	-13 to 61
	Dimensions (WxHxD)	in	37-13/32 x 54-11/32 x 13
Weight	Net	lbs	260
	Shipping	lbs	291
Sound Pressure <sup>4</sup>		dB(A)	57
Fan	Type		Axial Flow Fan
	Air Flow Rate	CFM	3,885
Compressor	Type		Scroll Inverter
	Oil Type		PVE/FVC68D
	Quantity		1
Heat Exchange	Coating		Gold Fin / Hydrophilic / Copper Tube
	Rows/Fins per inch		3 / 14
Piping	Liquid Line (OD)	in	3/8
	HP/Vapor Line (OD)	in	5/8
	LP/Vapor Line (OD)	in	3/4
Refrigerant	Type		R410A
	Charge	lbs	7.7
	Control		EEV
Number of Indoor Units <sup>3</sup>	Minimum / Maximum		2/12

1. Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80°F dry bulb (DB) and 67°F wet bulb (WB) and outdoor ambient conditions of 95°F dry bulb (DB) and 75°F wet bulb (WB).

Nominal heating capacity rating obtained with air entering the indoor unit at 70°F dry bulb (DB) and 59°F wet bulb (WB) and outdoor ambient conditions of 47°F dry bulb (DB) and 43°F wet bulb (WB).

2. Rated capacity is certified under AHRI Standard 210/240. See [www.ahrinet.org](http://www.ahrinet.org) for information.

3. The System Combination Ratio must be between 50–130%.

4. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.

5. Power wiring is field provided, solid or stranded, and must comply with all local and national codes. Refer to the engineering manual for detailed electrical data.

6. Cooling range with the Low Ambient Baffle Kit (sold separately) is down to -9.9°F.

*Due to our commitment to continued innovation, some specifications may be changed without notification.*

# MULTI V™ S

## MULTI V™ S HEAT PUMP

### THREE-PHASE



Model	Specifications	Unit	ARUN072BSS5	ARUN096BSS5
	Heat Pump / Heat Recovery		Heat Pump	Heat Pump
	Tons		6	8
Capacity	Nominal Cooling Capacity <sup>1</sup>	Btu/h	72,000	96,000
	Nominal Heating Capacity <sup>1</sup>	Btu/h	81,000	108,000
	Rated Cooling Capacity <sup>2</sup>	Btu/h	69,000	92,000
	Rated Heating Capacity <sup>2</sup>	Btu/h	77,000	103,000
Power	Voltage	V / Hz / Ø	208-230/60/3	208-230/60/3
	Power/Communication Wiring <sup>5,6</sup>	No. x AWG	2 x 18	2 x 18
Operating Range	Cooling Operation Range <sup>7</sup>	°F	23 to 122	23 to 122
	Heating Operation Range	°F	-13 to 61	-13 to 61
Dimensions	Dimensions (WxHxD)	in	42-29/32 x 63-3/8 x 17-17/32	42-29/32 x 63-3/8 x 17-17/32
Weight	Net	lbs	348	348
	Shipping	lbs	379	379
Sound Pressure <sup>4</sup>		dB(A)	55 / 57	59 / 60
Fan	Type		Axial Flow Fan	Axial Flow Fan
	Air Flow Rate	CFM	7,416	7,416
Compressor	Type		Hermetically Sealed Scroll	Hermetically Sealed Scroll
	Oil Type		PVE/FW68D	PVE/FW68D
	Quantity		1	1
Heat Exchanger	Coating		Black Coated Fin™ / Hydrophilic / Cooper Tube	Black Coated Fin™ / Hydrophilic / Cooper Tube
	Rows/Fins per inch		(3 x 14) x 2	(3 x 14) x 2
Piping	Liquid Line (OD)	in	3/8	3/8
	Vapor Line (OD)	in	3/4	7/8
Refrigerant	Type		R410A	R410A
	Charge	lbs	13.2	13.2
	Control		EEV	EEV
Number of Indoor Units <sup>3</sup>	Minimum / Maximum		2/13	2/16

1. Nominal capacity applied with non-ducted indoor units, and is rated 0 ft. above sea level with 25 ft. of refrigerant line per indoor unit and a 0 ft. level difference between outdoor and indoor units. All capacities are net with a Combination Ratio between 95–105%.

Nominal cooling capacity rating obtained with air entering the indoor unit at 80°F dry bulb (DB) and 67°F wet bulb (WB) and outdoor ambient conditions of 95°F dry bulb (DB) and 75°F wet bulb (WB).

Nominal heating capacity rating obtained with air entering the indoor unit at 70°F dry bulb (DB) and 59°F wet bulb (WB) and outdoor ambient conditions of 47°F dry bulb (DB) and 43°F wet bulb (WB).

2. Rated capacity is certified under AHRI Standard 210/240. See [www.ahrinet.org](http://www.ahrinet.org) for information.

3. The System Combination Ratio must be between 50–130%.

4. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.












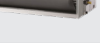


5. Power wiring is field provided, solid or stranded, and must comply with all local and national codes. Refer to the engineering manual for detailed electrical data.

6. Communication cable between outdoor unit and indoor units must be a minimum of 18 AWG, 2-conductor, twisted, stranded, shielded. Ensure the communication cable shield is properly grounded to the outdoor unit chassis only. Do not ground the outdoor unit to the indoor units communication cable at any other point. Wiring must comply with all applicable local and national codes.

7. Cooling range with the Low Ambient Baffle Kit (sold separately) is covered to -9.9°F.

Due to our commitment to continued innovation, some specifications may be changed without notification.

# INDOOR UNIT LINE-UP

Type	kBtu/h	5	7	9	12	15	18	24	28	30	36	42	48	54	96				
Wall Mounted Unit	Art Cool™ Gallery 			■															
	Art Cool™ Mirror 	■																	
	Standard 	■										■							
Ceiling Mounted Cassette	1-Way Cassette 		■				■												
	2-Way Cassette 						■												
	4-Way Cassette (2' x 2') 	■																	
	4-Way Cassette (3' x 3') 		■										■						
Ceiling Suspended 							■			■			■						
Multi-Position Air Handler Unit 					■		■			■									
Ceiling Concealed Ducted	Low Static 	■																	
	Mid Static 								■	■									
	Convertible Mid Static 	■																	
	High Static 	■										■							
Floor Standing	With Case 	■																	
	Without Case 	■																	
Outside Air Unit (OAU) 														■					
Hydro Kit 													■		■				

AHRI Certified, Variable Refrigerant Flow (VRF) Multi-Split AC and HP AHRI Standard 1230

## LG Electronics USA Inc

Air Conditioning Technologies  
4300 North Point Parkway  
Alpharetta, GA 30022

[www.lghvac.com](http://www.lghvac.com)

