



MULTI V™ S

MULTI V™ S WITH LGRED°

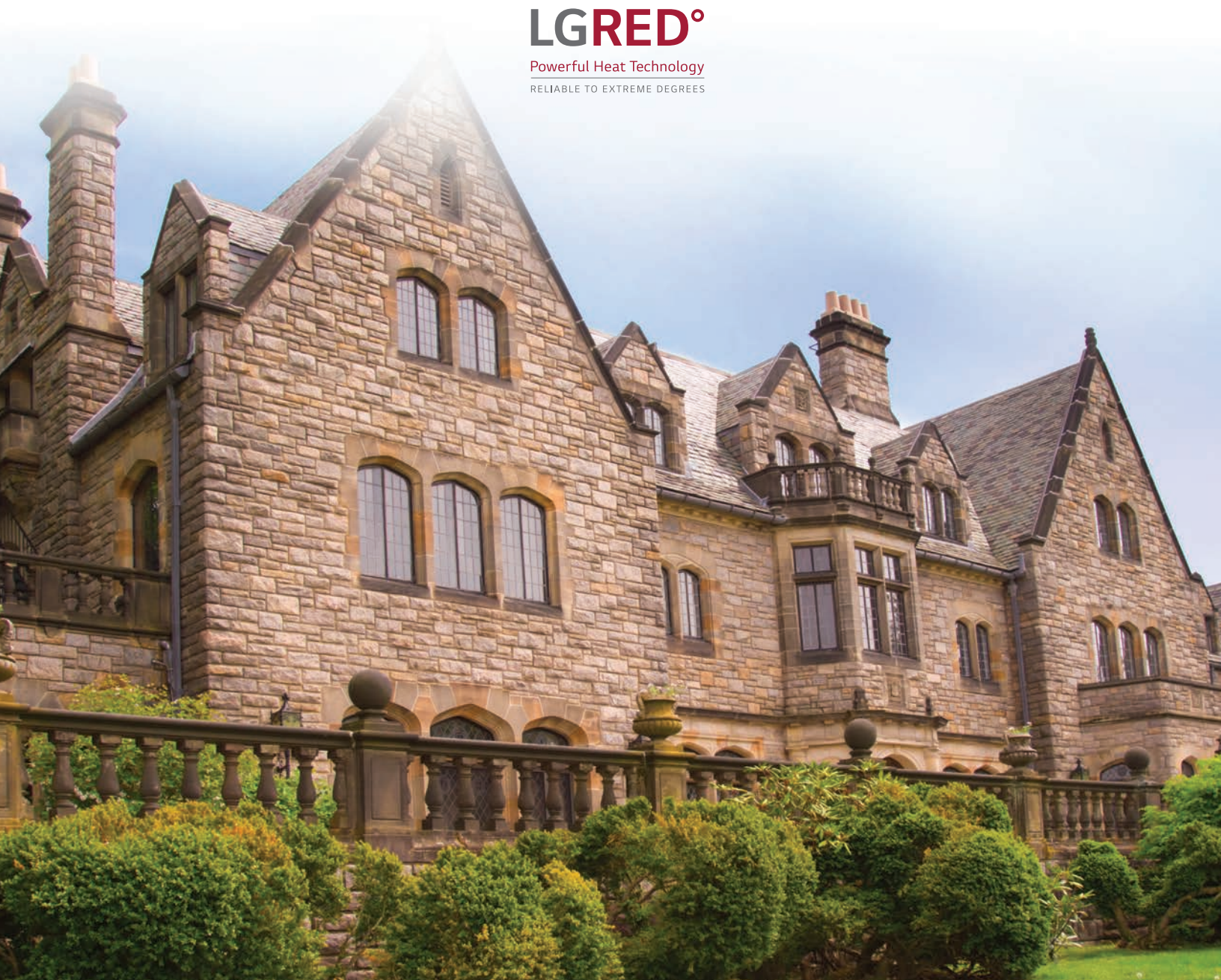
VRF HEAT RECOVERY SYSTEMS
AND HEAT PUMP SYSTEMS

LG Air Conditioning Technologies

LGRED°

Powerful Heat Technology

RELIABLE TO EXTREME DEGREES



ABOUT LG VRF

WHAT IS VRF?

A Variable Refrigerant Flow (VRF) system uses a closed refrigerant circuit, connecting one outdoor unit to many indoor units, providing individual zone temperature control. VRF 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.

In the heat recovery configuration, VRF also allows for heating and cooling simultaneously in different zones by using heat energy from one space to condition another, reducing the amount of 'created' energy further enhancing energy savings and increasing occupant comfort.



About LG Electronics USA Inc

LG Electronics USA, Inc., based in Englewood Cliffs, New Jersey, is the North American subsidiary of LG Electronics, Inc., a \$54 billion global force and technology leader in consumer electronics, home appliances and mobile communications. LG Electronics, a proud ENERGY STAR® Partner of the Year for the past 5 consecutive years, sells a range of stylish and innovative home entertainment products, mobile phones, home appliances, commercial displays, air conditioning systems and solar energy solutions in the United States, all under LG's "Life's Good" marketing theme. For more news and information on LG Electronics, please visit www.LG.com.

About LG Electronics Air Conditioning Technologies

The LG Electronics USA Air Conditioning Technologies business is based in Alpharetta, Georgia. LG is a leading player in the global air conditioning market, manufacturing both commercial and residential air conditioners and providing total sustainability and building management solutions. From consumer and individual units to industrial and specialized air conditioning systems, LG provides a wide range of products for heating, ventilating and air conditioning. Visit www.lghvac.com for more information.

ADVANTAGES

WHY MULTI V S?

The LG Multi V S and Multi V S with LGRED° is a compact yet powerful VRF solution for residential and light commercial applications. LG Multi V S utilizes single-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. To meet the needs of multiple applications and loads, Multi V S systems are capable of heat pump or heat recovery and several models include LGRED° heat technology. Multi V S systems require little to no ductwork, resulting in smaller space requirements which allow for higher interior ceilings, less structural impact and more usable square footage.



MAXIMIZED EFFICIENCY

Smart Load Control

Automatically adjusts operation requirements by sensing both indoor and outdoor conditions

Inverter Compressor

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



OPTIMIZED 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 ft²)

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

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

APPLICATIONS

RESIDENTIAL



LIGHT COMMERCIAL



MULTI V™ S WITH LGRED°

MULTI V™ S HEAT PUMP AND HEAT RECOVERY

LGRED° Continuous heating down to -13 °F.
100% heating capacity at 5°F.
Powerful Heat Technology
RELIABLE TO EXTREME DEGREES



Model	Specifications	Unit	ARUM036GSS5	ARUM048GSS5
	Heat Pump / Heat Recovery		Heat Pump and Heat Recovery	Heat Pump and Heat Recovery
	Tons		3	4
Capacity	Nominal Cooling Capacity ¹	Btu/h	36,000	48,000
	Nominal Heating Capacity ¹	Btu/h	42,000	54,000
	Rated Cooling Capacity ²	Btu/h	36,000	48,000
	Rated Heating Capacity ²	Btu/h	42,000	54,000
Power	Voltage	V / Hz / Ø	208-230/60/1	208-230/60/1
	Power/Communication Wiring ³	No. x AWG	2 x 18	2 x 18
Operating Range	Cooling Operation Range ⁶	°F	23 - 122	23 - 122
	Heating Operation Range	°F	-13 - 61	-13 - 61
Dimensions	Dimensions (WxHxD)	in	37-13/32 x 54-11/32 x 13	37-3/32 x 54-11/32 x 13
	Net	lbs	263	263
Weight	Shipping	lbs	294	294
	Sound Pressure ⁴	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		Aluminum Fin & Black Fin / Copper Tube	Aluminum Fin & Black Fin / Copper Tube
	Rows/Fins per inch		3 / 14	3 / 14
Piping	Liquid Line (OD)	in	3/8	3/8
	HP/Vapor Line (OD)	in	5/8	5/8
	LP/Vapor Line (OD)	in	3/4	3/4
Refrigerant	Type		R410A	R410A
	Charge	lbs	7.7 lbs.	7.7 lbs.
Number of Indoor Units ³	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 1230. See 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 ¹	Btu/h	24,000	39,500	50,000	60,000
	Nominal Heating Capacity ¹	Btu/h	27,000	44,000	56,500	64,000
	Rated Cooling Capacity ²	Btu/h	24,000	38,000	48,000	60,000
	Rated Heating Capacity ²	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 ⁵	No. x AWG	2 x 18	2 x 18	2 x 18	2 x 18
Operating Range	Cooling Operation Range ⁶	°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
	Net	lbs	159	207	207	260
Weight	Shipping	lbs	176	218	218	291
	Sound Pressure ⁴	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	Gold Fin / Hydrophilic	Gold Fin / Hydrophilic	Gold Fin / Hydrophilic
	Rows/Fins per inch		2 / 14	2 / 14	2 / 14	3 / 14
	Liquid Line (OD)	in	3/8	3/8	3/8	3/8
Piping	LP/Vapor Line (OD)	in	5/8	5/8	5/8	3/4
	Type		R410A	R410A	R410A	R410A
Refrigerant	Charge	lbs	4.0	6.6	6.6	7.7
	Control		EEV	EEV	EEV	EEV
Number of Indoor Units ³	Minimum / Maximum		2 / 4	2 / 6	2 / 8	2 / 12

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 2. Rated capacity is certified under AHRI Standard 1230. See 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.
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MULTI V™ S HEAT RECOVERY



Model	Specifications	Unit	ARUB060GSS4
	Heat Pump / Heat Recovery		Heat Recovery
	Tons		5
Capacity	Nominal Cooling Capacity ¹	Btu/h	60,000
	Nominal Heating Capacity ¹	Btu/h	60,000
	Rated Cooling Capacity ²	Btu/h	60,000
	Rated Heating Capacity ²	Btu/h	60,000
Power	Voltage	V / Hz / Ø	208-230/60/1
	Power/Communication Wiring ⁵	No. x AWG	2 x 18
Operating Range	Cooling Operation Range ⁶	°F	23 to 122
	Heating Operation Range	°F	-13 to 61
Dimensions	Dimensions (WxHxD)	in	37-13/32x54-11/32x13
Weight	Net	lbs	260
	Shipping	lbs	291
Sound Pressure ⁴		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
	Rows/Fins per inch		3 / 14
	Liquid Line (OD)	in	3/8
Piping	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 ³	Minimum / Maximum		2/12

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INDOOR UNIT LINE-UP

Type	kBtu/h	5	7	9	12	15	18	24	28	30	36	42	48	54	
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 							■				■		■		
Vertical Air Handler Unit (VAHU) 				■			■			■					
Ceiling Concealed Ducted	Low Static 		■												
	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

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