



VRF SYSTEMS

LG Air Conditioning Technologies



ABOUT LG



About LG Electronics USA

LG Electronics USA, Inc., based in Englewood Cliffs, New Jersey, is the North American subsidiary of LG Electronics, Inc., a \$48 billion global force and technology leader in consumer electronics, home appliances and mobile communications. LG Electronics, named an ENERGY STAR® Partner of the Year for many 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.

LG Electronics USA 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. For more information, please visit www.lghvac.com.

ABOUT LG VRF

A Variable Refrigerant Flow (VRF) system is a single refrigerant circuit that connects many indoor units to one outdoor unit. VRF is a superior way to heat and cool any space, providing improved humidity control, individual set points per indoor unit, and a very quiet comfort experience. In the heat recovery configuration, VRF also allows for heating and cooling simultaneously in different zones, further enhancing energy savings and increasing occupant comfort. Energy efficient and easy to design, install, and maintain; a VRF system has low life cycle cost compared to other systems on the market today.

Why LG VRF?

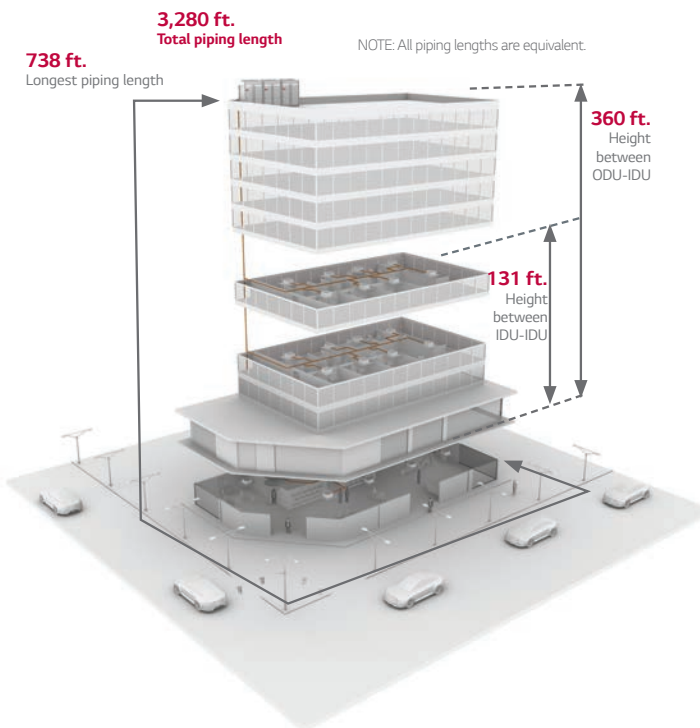
The benefits are numerous: less piping for installers, energy efficiency for owners, and modern indoor units that complement every setting. Sound levels of LG VRF products are among the lowest in the industry, so units can be installed where noise is an issue. Inverter scroll compressors manufactured by LG optimize system energy efficiency.

With the addition of LGRED° heating capability, the Multi V™ 5 provides continuous operational performance with heating down to -22°F and cooling up to 122°F for all units with no additional accessories or modifications to the equipment, making it a robust solution for all climates.



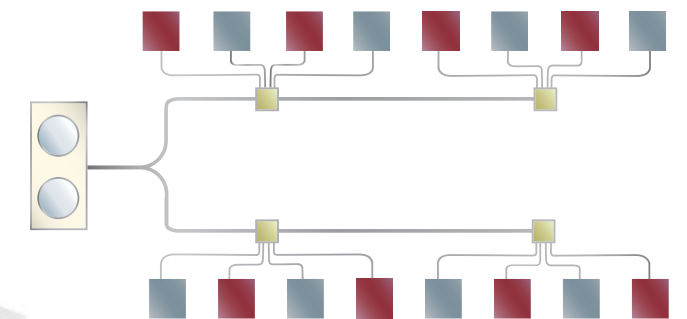
MULTI V™ 5

1. High Elevation Piping Distances



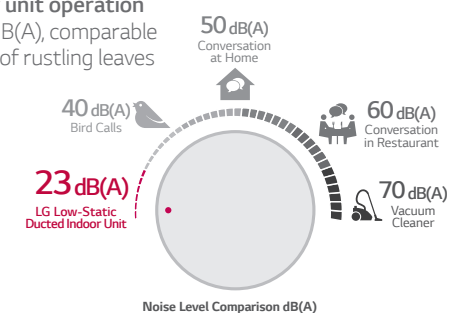
2. Optimized Heat Recovery Piping

- Flexible piping layout reduces materials and labor costs during installation
- LG Heat Recovery Unit (HRU) is quiet, compact, lightweight, and does not need condensate drains¹
- Configured for fully independent heating and cooling, ensuring occupant comfort



4. Quiet Operation

- Quiet indoor unit operation down to 23 dB(A), comparable to the sound of rustling leaves



3. Operation Range

- Industry-leading operation ranges without additional accessories or performance deficits:
 - Heating: -22°F to 61°F WB
 - Cooling: 5°F to 122°F DB
 - Simultaneous Cooling: 14°F to 81°F DB



1. Down to 31 dB(A). See page 44 for HRU specification details.

LG VRF ADVANTAGES

Efficiency

Advanced features for superior efficiency

- **Advanced Smart Load Control**
Automatically adjusts system target pressures based on outdoor temperature and humidity for increased cooling performance.
- **Active Refrigerant Control**
Depending on the operating mode and conditions, the system refrigerant level is automatically adjusted for increased part load and heating efficiency.
- **Variable Path Heat Exchanger**
Depending on the operating mode and conditions, both the refrigerant flow path and velocity are adjusted for improved efficiency.
- **Advanced PCB Cooling**
Improved cooling performance of the inverter PCB by using liquid refrigerant instead of heat sink cooling methods.

- **LG Inverter Scroll**
Innovative high side-shell design creates a more compact unit providing the same capacity output, with greater reliability in cold climates.
- **HiPOR™ (High-Pressure Oil Return)**
Oil is returned to the compressor through a separate inlet pipe, ensuring that compressor energy is used to compress refrigerant only.
- **Smart Oil Control**
Eliminates timed oil-return cycles and takes hours off of the time required to return oil compared to systems that use a timed oil-recovery cycle.
- **Intelligent Heating**
By monitoring the outdoor humidity, system target pressures can be reduced to extend heating operation, delay defrost operation and reduce power consumption.

Performance

Expansive operating range in cooling and heating without adding accessories

- LG Multi V 5 uses vapor injection technology for improved heating performance in ambient conditions as low as -22°F.
- Using a variable path heat exchanger, LG Multi V™ 5 performs in low ambient conditions to provide cooling down to 5°F.

Comfort

- **Quiet Operation**
Multi V indoor units are among the quietest in the industry, with rated sound levels as low as 23dB(A). In addition to temperature, airflow and dehumidification, extremely low sound levels contribute to a relaxing environment.
- **Individualized Zone Control**
Multi V systems allow the user to control the space to the exact temperature desired. This further enhances comfort while promoting reduced power consumption.
- **Indoor Air Quality**
All Multi V indoor units incorporate a reusable, washable filter. Since distribution and return ducts are not required for this system, dust and duct mold accumulation are reduced, contributing to improved indoor air quality.

Design Flexibility

- **Higher-Elevation Piping Technology**
More floors with fewer systems. LG Multi V™ 5 eliminates the need to invest in extra systems and saves on installation. Enjoy no heating capacity losses due to long pipe length.
- **Compact & Lightweight**
More indoor zones, less outdoor space. When space or access is at a premium, Multi V 5 offers significant cost advantages on large projects.



TRAINING



Training

The LG US Air Conditioning division is headquartered near Atlanta in Alpharetta, Georgia, along with a full training academy. Additional training academies are located in California, Texas and New Jersey. Since 2008, our academies have trained thousands on the advantages of LG air conditioning systems, and even more have been trained through LG's online training modules. World class trainers with years of experience teach classes in duct-free technology, with topics covering everything from installation to service for the full range of LG air conditioning products. LG also has a number of strategically placed partner academies throughout the United States that offer a number of LG training classes as well.

For HVAC professionals, LG offers online instruction via our Learning Management System and classroom training at our training academies, strategically placed throughout the country. Training is open to all contractors; ask your LG Electronics authorized distributor for details. For more information and to find out how you can be part of the next training class near you, visit <https://lghvac.com/training>.

Service Tools

As part of our commitment to innovation, LG has developed innovative ways to enhance the service technician's experience during routine maintenance or service with these tools:

- **LG Monitoring View (LGMV)** Software and Mobile App both connect to LG Multi V Systems to allow technicians to troubleshoot accurately and evaluate equipment performance by interfacing directly with the unit. The software provides an accurate picture of an operating system without the need to check system temperatures manually, access the refrigerant circuit for system pressures, or perform time-consuming resistance and voltage tests. This service tool provides the most effective troubleshooting method for LG Multi V equipment.
- **LG Telepresence** connects technicians in the field directly to LG Technical Assistance representatives via a live video feed through the technician's smartphone, allowing you to bring LG technical support with you to any jobsite.

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LG Multi V IV installation at
Motorcars Honda, Cleveland, Ohio

OUTDOOR UNIT Lineup














● = Heat Pump
● = Heat Recovery
Unit : Tons

System Type		Frames	2	3	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	48	
Air Source	Multi V™ 5 LGRED° <small>Powerful Heat Technology</small> <small>RELIABLE TO EXTREME DEGREES</small>	 <ul style="list-style-type: none"> Heat Pump and Heat Recovery in the same chassis 					● ●	● ●	● ●	● ●	● ●	● ●	● ●	● ●													
		 <ul style="list-style-type: none"> Available in 208-230V and 460V 														● ●	● ●	● ●	● ●	● ●	● ●	● ●					
																							● ●	● ●	● ●	● ●	
Air Source	Multi V™ S <ul style="list-style-type: none"> Heat Pump or Heat Recovery Systems Single-Phase Power 		●	●	●	● ●																					
Water Source	Multi V™ Water IV 208-230V <ul style="list-style-type: none"> Heat Pump or Heat Recovery Systems 						● ●	● ●	● ●	● ●																	
												● ●		● ●		● ●											
																			● ●				● ●				
Water Source	Multi V™ Water IV 460V <ul style="list-style-type: none"> Heat Pump or Heat Recovery Systems 						● ●	● ●	● ●	● ●		● ●															
														● ●		● ●		● ●									
																							● ●		● ●		● ●

INDOOR UNIT Lineup

LG indoor units offer a wide range of styles and features to fit all of your cooling and heating needs. With cassettes that mount flush to the ceiling, ducted units that are completely concealed in the ceiling, and LG's award-winning Art Cool Gallery and mirror-finished, wall-mounted units that fit into any décor, the Multi V system offers unparalleled aesthetic design and indoor units to fit into multiple applications.

Unit : MBh

Chassis		5	7	9	12	15	18	24	28	30	36	42	48	54	76	96
Art Cool™	Gallery 			●	●											
	Mirror 	●	●	●	●	●	●	●								
Standard	Wall Mount 	●	●	●	●	●	●	●		●	●					
Ceiling Cassette	1-Way 		●	●	●		●	●								
	2-Way 						●	●								
	4-Way (2'x2') 	●	●	●	●	●	●									
	4-Way (3'x3') 		●	●	●	●	●	●	●		●	●	●			
Ceiling Concealed Duct	Low Static 		●	●	●	●	●	●								
	Mid Static 		●	●	●	●	●	●	●		●	●	●	●		
	High Static 		●	●	●	●	●	●	●		●	●	●		●	●
Vertical AHU	Vertical / Horizontal 				●		●	●		●	●	●	●	●		
Floor Standing	With Case 		●	●	●	●	●	●								
	Without Case 		●	●	●	●	●	●								

AIR SOURCE SYSTEMS

MULTI V⁵



MULTI V 5
Heat Pump and
Heat Recovery
6 to 42 Tons

LGRED^o
Powerful Heat Technology
RELIABLE TO EXTREME DEGREES

MULTI V^S



MULTI V S
Heat Pump and
Heat Recovery
2 to 5 Tons

MULTI V™ 5

LGRED°
Powerful Heat Technology
RELIABLE TO EXTREME DEGREES



ARUM072BTE5

ARUM***BTE5

Specifications	Unit	ARUM072BTE5	ARUM096BTE5	ARUM121BTE5	ARUM144BTE5	
Frames		ARUM072BTE5	ARUM096BTE5	ARUM121BTE5	ARUM144BTE5	
Tons		6	8	10	12	
Nominal Capacity	Cooling	Btu/h	72,000	96,000	119,700	144,000
	Heating	Btu/h	81,000	108,000	135,000	162,000
Rated Capacity ¹	Cooling	Btu/h	69,000	92,000	114,000	138,000
	Heating	Btu/h	77,000	103,000	129,000	152,000
Power Voltage	V / Hz / ø	208-230/60/3	208-230/60/3	208-230/60/3	208-230/60/3	
Power/Communication Wiring	No x AWG	2 x 18	2 x 18	2 x 18	2 x 18	
Operating Range	Cooling	°F	5-122	5-122	5-122	5-122
	Heating	°F	-22 - 61	-22 - 61	-22 - 61	-22 - 61
	Simultaneous Operation ²	°F	14 - 81	14 - 81	14 - 81	14 - 81
Dimensions (W×H×D)	Body	in	36-5/8 x 66-17/32 x 29-29/32	48-13/16 x 66-17/32 x 29-29/32	48-13/16 x 66-17/32 x 29-29/32	48-13/16 x 66-17/32 x 29-29/32
	Net	lbs	430	507	507	639
Weight	Shipping	lbs	452	534	534	666
Sound Pressure ³	dB(A)	58.0	58.0	59.0	60.0	
Fan (Propeller)	CFM	8,470	11,300	11,300	11,300	
Compressor (DC Scroll)	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		1	1	1	2
Heat Exchanger	Coating		Black Coated Fin™	Black Coated Fin™	Black Coated Fin™	Black Coated Fin™
	Rows/Fins per Inch		2/17	2/17	2/17	3/17
Piping	Liquid Line	in	3/8	3/8	1/2	1/2
	L/P Vapor Line	in	3/4	7/8	1-1/8	1-1/8
	H/P Vapor Line ⁴	in	5/8	3/4	3/4	7/8
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charge	lbs	14.3	23.2	23.2	26.5
	Control		EEV	EEV	EEV	EEV
Maximum Number of Indoor Units ⁵		13	16	20	24	

MULTI V™ 5

LGRED°
Powerful Heat Technology
RELIABLE TO EXTREME DEGREES



ARUM***BTE5

Specifications	Unit	ARUM168BTE5	ARUM192BTE5	ARUM216BTE5	ARUM241BTE5	
Frames		ARUM168BTE5	ARUM192BTE5	ARUM216BTE5	ARUM241BTE5	
Tons		14	16	18	20	
Nominal Capacity	Cooling	Btu/h	168,000	192,000	216,000	233,100
	Heating	Btu/h	189,000	216,000	243,000	243,000
Rated Capacity ¹	Cooling	Btu/h	160,000	184,000	206,000	222,000
	Heating	Btu/h	180,000	206,000	230,000	230,000
Power Voltage	V / Hz / ø	208-230/60/3	208-230/60/3	208-230/60/3	208-230/60/3	
Power/Communication Wiring	No x AWG	2 x 18	2 x 18	2 x 18	2 x 18	
Operating Range	Cooling	°F	5-122	5-122	5-122	5-122
	Heating	°F	-22 - 61	-22 - 61	-22 - 61	-22 - 61
	Simultaneous Operation ²	°F	14 - 81	14 - 81	14 - 81	14 - 81
Dimensions (W×H×D)	Body	in	48-13/16 x 66-17/32 x 29-29/32	48-13/16 x 66-17/32 x 29-29/32	48-13/16 x 66-17/32 x 29-29/32	48-13/16 x 66-17/32 x 29-29/32
	Net	lbs	639	659	666	666
Weight	Shipping	lbs	666	688	694	694
Sound Pressure ³	dB(A)	61.0	62.0	64.0	65.0	
Fan (Propeller)	CFM	11,300	11,300	11,300	11,300	
Compressor (DC Scroll)	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		2	2	2	2
Heat Exchanger	Coating		Black Coated Fin™	Black Coated Fin™	Black Coated Fin™	Black Coated Fin™
	Rows/Fins per Inch		3/17	3/17	3/17	3/17
Piping	Liquid Line	in	5/8	5/8	5/8	5/8
	L/P Vapor Line	in	1-1/8	1-1/8	1-1/8	1-3/8
	H/P Vapor Line ⁴	in	7/8	1-1/8	1-1/8	1-1/8
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charge	lbs	26.5	30.9	37.5	37.5
	Control		EEV	EEV	EEV	EEV
Maximum Number of Indoor Units ⁵		29	32	35	39	

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
 2. Temperatures shown are for Simultaneous operation - primarily cooling. The simultaneous operation range (primarily heating) is 14°F to 61°F.
 3. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 4. Used in Heat Recovery Systems only.
 5. The System Combination Ratio must be between 50 and 130%.
 6. Due to our commitment to continued innovation, some specifications may be changed without notification.

MULTI V™ 5

LGRED°
Powerful Heat Technology
RELIABLE TO EXTREME DEGREES



ARUM***BTE5

Specifications	Unit	ARUM264BTE5	ARUM288BTE5	ARUM312BTE5	ARUM336BTE5
Frames		ARUM096BTE5 ARUM168BTE5	ARUM096BTE5 ARUM192BTE5	ARUM096BTE5 ARUM216BTE5	ARUM121BTE5 ARUM216BTE5
Tons		22	24	26	28
Nominal Capacity	Cooling	Btu/h	264,000	288,000	312,000
	Heating	Btu/h	297,000	324,000	351,000
Rated Capacity ¹	Cooling	Btu/h	252,000	276,000	298,000
	Heating	Btu/h	282,000	308,000	332,000
Power Voltage	V / Hz / ϕ	208-230/60/3	208-230/60/3	208-230/60/3	208-230/60/3
Power/Communication Wiring	No x AWG	2 x 18	2 x 18	2 x 18	2 x 18
Operating Range	Cooling	*F	5-122	5-122	5-122
	Heating	*F	-22 - 61	-22 - 61	-22 - 61
	Simultaneous Operation ²	*F	14 - 81	14 - 81	14 - 81
Dimensions (W×H×D)	Body	in	97-5/8 x 66-17/32 x 29-29/32	97-5/8 x 66-17/32 x 29-29/32	97-5/8 x 66-17/32 x 29-29/32
	Net	lbs	507+639	507+659	507+666
Weight	Shipping	lbs	534+666	534+688	534+694
Sound Pressure ³	dB(A)	63.0	63.0	65.0	65.0
Fan (Propeller)	CFM	22,600	22,600	22,600	22,600
Compressor (DC Scroll)	Type		DC Scroll	DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		3	3	3
Heat Exchanger	Coating		Black Coated Fin™	Black Coated Fin™	Black Coated Fin™
	Rows/Fins per Inch		2/17+3/17	2/17+3/17	2/17+3/17
Piping	Liquid Line	in	3/8 + 5/8	3/8 + 5/8	1/2 + 5/8
	L/P Vapor Line	in	7/8 + 1-1/8	7/8 + 1-1/8	1-1/8 + 1-1/8
	H/P Vapor Line ⁴	in	3/4 + 7/8	3/4 + 1-1/8	3/4 + 1-1/8
Refrigerant	Type		R410A	R410A	R410A
	Charge	lbs	23.2+26.5	23.2+30.9	23.2+37.5
	Control		EEV	EEV	EEV
Maximum Number of Indoor Units ⁵		42	45	52	55

MULTI V™ 5

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Powerful Heat Technology
RELIABLE TO EXTREME DEGREES



ARUM***BTE5

Specifications	Unit	ARUM360BTE5	ARUM384BTE5	ARUM408BTE5
Frames		ARUM144BTE5 ARUM216BTE5	ARUM168BTE5 ARUM216BTE5	ARUM192BTE5 ARUM216BTE5
Tons		30	32	34
Nominal Capacity	Cooling	Btu/h	360,000	384,000
	Heating	Btu/h	405,000	432,000
Rated Capacity ¹	Cooling	Btu/h	344,000	366,000
	Heating	Btu/h	384,000	410,000
Power Voltage	V / Hz / ϕ	208-230/60/3	208-230/60/3	208-230/60/3
Power/Communication Wiring	No x AWG	2 x 18	2 x 18	2 x 18
Operating Range	Cooling	*F	5-122	5-122
	Heating	*F	-22 - 61	-22 - 61
	Simultaneous Operation ²	*F	14 - 81	14 - 81
Dimensions (W×H×D)	Body	in	97-5/8 x 66-17/32 x 29-29/32	97-5/8 x 66-17/32 x 29-29/32
	Net	lbs	639+666	639+666
Weight	Shipping	lbs	666+694	688+694
Sound Pressure ³	dB(A)	66.0	66.0	66.0
Fan (Propeller)	CFM	22,600	22,600	22,600
Compressor (DC Scroll)	Type		DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D
	Quantity		4	4
Heat Exchanger	Coating		Black Coated Fin™	Black Coated Fin™
	Rows/Fins per Inch		3/17 x 2	3/17 x 2
Piping	Liquid Line	in	1/2 + 5/8	5/8 + 5/8
	L/P Vapor Line	in	1-1/8 + 1-1/8	1-1/8 + 1-1/8
	H/P Vapor Line ⁴	in	7/8 + 1-1/8	7/8 + 1-1/8
Refrigerant	Type		R410A	R410A
	Charge	lbs	26.5+37.5	26.5+37.5
	Control		EEV	EEV
Maximum Number of Indoor Units ⁵		58	61	64

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
 2. Temperatures shown are for Simultaneous operation - primarily cooling. The simultaneous operation range (primarily heating) is 14°F to 61°F.
 3. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
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ARUM***BTE5

Specifications		Unit	ARUM432BTE5	ARUM456BTE5	ARUM480BTE5	ARUM504BTE5
Frames			ARUM121BTE5 ARUM121BTE5 ARUM192BTE5	ARUM121BTE5 ARUM121BTE5 ARUM216BTE5	ARUM121BTE5 ARUM144BTE5 ARUM216BTE5	ARUM121BTE5 ARUM168BTE5 ARUM216BTE5
Tons			36	38	40	42
Nominal Capacity	Cooling	Btu/h	430,500	455,700	476,700	504,000
	Heating	Btu/h	486,000	513,000	540,000	567,000
Rated Capacity ¹	Cooling	Btu/h	410,000	434,000	454,000	480,000
	Heating	Btu/h	460,000	484,000	510,000	534,000
Power Voltage		V / Hz / ø	208-230/60/3	208-230/60/3	208-230/60/3	208-230/60/3
Power/Communication Wiring		No x AWG	2 x 18	2 x 18	2 x 18	2 x 18
Operating Range	Cooling	*F	5-122	5-122	5-122	5-122
	Heating	*F	-22 - 61	-22 - 61	-22 - 61	-22 - 61
	SimultaneousOperation ²	*F	14 - 81	14 - 81	14 - 81	14 - 81
Dimensions (W×H×D)	Body	in	146-7/16 x 66-17/32 x 29-29/32	146-7/16 x 66-17/32 x 29-29/32	146-7/16 x 66-17/32 x 29-29/32	146-7/16 x 66-17/32 x 29-29/32
	Net	lbs	507+507+659	507+507+666	507+639+666	507+639+666
Weight	Shipping	lbs	507+507+688	534+534+694	534+666+694	534+666+694
Sound Pressure ³		dB(A)	66.0	66.0	67.0	67.0
Fan (Propeller)		CFM	33,900	33,900	33,900	33,900
Compressor (DC Scroll)	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		4	4	5	5
Heat Exchanger	Coating		Black Coated Fin™	Black Coated Fin™	Black Coated Fin™	Black Coated Fin™
	Rows/Fins per Inch		2/17 x 2 + 3/17	2/17 x 2 + 3/17	2/17 + 3/17 x 2	2/17 + 3/17 x 2
Piping	Liquid Line	in	1/2 + 1/2 + 5/8	1/2 + 1/2 + 5/8	1/2 + 1/2 + 5/8	1/2 + 1/2 + 5/8
	L/P Vapor Line	in	1-1/8 + 1-1/8 + 1-1/8	1-1/8 + 1-1/8 + 1-1/8	1-1/8 + 1-1/8 + 1-1/8	1-1/8 + 1-1/8 + 1-1/8
	H/P Vapor Line ⁴	in	3/4 + 3/4 + 1-1/8	3/4 + 3/4 + 1-1/8	3/4 + 7/8 + 1-1/8	3/4 + 7/8 + 1-1/8
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charge	lbs	23.2+23.2+30.9	23.2+23.2+37.5	23.2+26.5+37.5	23.2+26.5+37.5
	Control		EEV	EEV	EEV	EEV
Maximum Number of Indoor Units ⁵			64	64	64	64

MULTI V™ 5

LGRED°

Powerful Heat Technology
RELIABLE TO EXTREME DEGREES



ARUM072DTE5

ARUM***DTE5

Specifications		Unit	ARUM072DTE5	ARUM096DTE5	ARUM121DTE5	ARUM144DTE5
Frames			ARUM072DTE5	ARUM096DTE5	ARUM121DTE5	ARUM144DTE5
Tons			6	8	10	12
Nominal Capacity	Cooling	Btu/h	72,000	96,000	119,700	144,000
	Heating	Btu/h	81,000	108,000	135,000	162,000
Rated Capacity ¹	Cooling	Btu/h	69,000	92,000	114,000	138,000
	Heating	Btu/h	77,000	103,000	129,000	152,000
Power Voltage		V / Hz / ø	460/60/3	460/60/3	460/60/3	460/60/3
Power/Communication Wiring		No x AWG	2 x 18	2 x 18	2 x 18	2 x 18
Operating Range	Cooling	*F	5-122	5-122	5-122	5-122
	Heating	*F	-22 - 61	-22 - 61	-22 - 61	-22 - 61
	SimultaneousOperation ²	*F	14 - 81	14 - 81	14 - 81	14 - 81
Dimensions (W×H×D)	Body	in	36-5/8 x 66-17/32 x 29-29/32	48-13/16 x 66-17/32 x 29-29/32	48-13/16 x 66-17/32 x 29-29/32	48-13/16 x 66-17/32 x 29-29/32
	Net	lbs	430	507	507	639
Weight	Shipping	lbs	452	534	534	666
Sound Pressure ³		dB(A)	58.0	58.0	59.0	60.0
Fan (Propeller)		CFM	8,470	11,300	11,300	11,300
Compressor (DC Scroll)	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		1	1	1	2
Heat Exchanger	Coating		Black Coated Fin™	Black Coated Fin™	Black Coated Fin™	Black Coated Fin™
	Rows/Fins per Inch		2/17	2/17	2/17	3/17
Piping	Liquid Line	in	3/8	3/8	1/2	1/2
	L/P Vapor Line	in	3/4	7/8	1-1/8	1-1/8
	H/P Vapor Line ⁴	in	5/8	3/4	3/4	7/8
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charge	lbs	14.3	23.2	23.2	26.5
	Control		EEV	EEV	EEV	EEV
Maximum Number of Indoor Units ⁵			13	16	20	24

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 2. Temperatures shown are for Simultaneous operation - primarily cooling. The simultaneous operation range (primarily heating) is 14°F to 61°F.
 3. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 4. Used in Heat Recovery Systems only.
 5. The System Combination Ratio must be between 50 and 130%.
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MULTI V™ 5

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Powerful Heat Technology
RELIABLE TO EXTREME DEGREES



ARUM***DTE5

Specifications	Unit	ARUM168DTE5	ARUM192DTE5	ARUM216DTE5	ARUM241DTE5	
Frames		ARUM168DTE5	ARUM192DTE5	ARUM216DTE5	ARUM241DTE5	
Tons		14	16	18	20	
Nominal Capacity	Cooling	Btu/h	168,000	192,000	216,000	233,100
	Heating	Btu/h	189,000	216,000	243,000	243,000
Rated Capacity ¹	Cooling	Btu/h	160,000	184,000	206,000	222,000
	Heating	Btu/h	180,000	206,000	230,000	230,000
Power Voltage	V / Hz / ø	460/60/3	460/60/3	460/60/3	460/60/3	
Power/Communication Wiring	No x AWG	2 x 18	2 x 18	2 x 18	2 x 18	
Operating Range	Cooling	*F	5-122	5-122	5-122	5-122
	Heating	*F	-22 - 61	-22 - 61	-22 - 61	-22 - 61
	Simultaneous Operation ²	*F	14 - 81	14 - 81	14 - 81	14 - 81
Dimensions (W×H×D)	Body	in	48-13/16x66-17/32x29-29/32	48-13/16x66-17/32x29-29/32	48-13/16x66-17/32x29-29/32	48-13/16x66-17/32x29-29/32
	Net	lbs	639	659	666	666
Weight	Shipping	lbs	666	688	694	694
Sound Pressure ³	dB(A)	61.0	62.0	64.0	65.0	
Fan (Propeller)	CFM	11,300	11,300	11,300	11,300	
Compressor (DC Scroll)	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		2	2	2	2
Heat Exchanger	Coating		Black Coated Fin™	Black Coated Fin™	Black Coated Fin™	Black Coated Fin™
	Rows/Fins per Inch		3/17	3/17	3/17	3/17
Piping	Liquid Line	in	5/8	5/8	5/8	5/8
	L/P Vapor Line	in	1-1/8	1-1/8	1-1/8	1-3/8
	H/P Vapor Line ⁴	in	7/8	1-1/8	1-1/8	1-1/8
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charge	lbs	26.5	30.9	37.5	37.5
	Control		EEV	EEV	EEV	EEV
Maximum Number of Indoor Units ⁵		29	32	35	39	

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ARUM***DTE5

Specifications	Unit	ARUM264DTE5	ARUM288DTE5	ARUM312DTE5	ARUM336DTE5	
Frames		ARUM096DTE5 ARUM168DTE5	ARUM096DTE5 ARUM192DTE5	ARUM096DTE5 ARUM216DTE5	ARUM121DTE5 ARUM216DTE5	
Tons		22	24	26	28	
Nominal Capacity	Cooling	Btu/h	264,000	288,000	312,000	336,000
	Heating	Btu/h	297,000	324,000	351,000	378,000
Rated Capacity ¹	Cooling	Btu/h	252,000	276,000	298,000	320,000
	Heating	Btu/h	282,000	308,000	332,000	358,000
Power Voltage	V / Hz / ø	460/60/3	460/60/3	460/60/3	460/60/3	
Power/Communication Wiring	No x AWG	2 x 18	2 x 18	2 x 18	2 x 18	
Operating Range	Cooling	*F	5-122	5-122	5-122	5-122
	Heating	*F	-22 - 61	-22 - 61	-22 - 61	-22 - 61
	Simultaneous Operation ²	*F	14 - 81	14 - 81	14 - 81	14 - 81
Dimensions (W×H×D)	Body	in	97-5/8x66-17/32x29-29/32	97-5/8x66-17/32x29-29/32	97-5/8x66-17/32x29-29/32	97-5/8x66-17/32x29-29/32
	Net	lbs	507+639	507+659	507+666	507+666
Weight	Shipping	lbs	534+666	534+688	534+694	534+694
Sound Pressure ³	dB(A)	63.0	63.0	65.0	65.0	
Fan (Propeller)	CFM	22,600	22,600	22,600	22,600	
Compressor (DC Scroll)	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		3	3	3	3
Heat Exchanger	Coating		Black Coated Fin™	Black Coated Fin™	Black Coated Fin™	Black Coated Fin™
	Rows/Fins per Inch		2/17+3/17	2/17+3/17	2/17+3/17	2/17+3/17
Piping	Liquid Line	in	3/8 + 5/8	3/8 + 5/8	3/8 + 5/8	1/2 + 5/8
	L/P Vapor Line	in	7/8 + 1-1/8	7/8 + 1-1/8	7/8 + 1-1/8	1-1/8 + 1-1/8
	H/P Vapor Line ⁴	in	3/4 + 7/8	3/4 + 1-1/8	3/4 + 1-1/8	3/4 + 1-1/8
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charge	lbs	23.2+26.5	23.2+30.9	23.2+37.5	23.2+37.5
	Control		EEV	EEV	EEV	EEV
Maximum Number of Indoor Units ⁵		42	45	52	55	

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 2. Temperatures shown are for Simultaneous operation - primarily cooling. The simultaneous operation range (primarily heating) is 14°F to 61°F.
 3. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 4. Used in Heat Recovery Systems only.
 5. The System Combination Ratio must be between 50 and 130%.
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ARUM***DTE5

Specifications	Unit	ARUM360DTE5	ARUM384DTE5	ARUM408DTE5
Frames		ARUM144DTE5 ARUM216DTE5	ARUM168DTE5 ARUM216DTE5	ARUM192DTE5 ARUM216DTE5
Tons		30	32	34
Nominal Capacity	Cooling	Btu/h 360,000	Btu/h 384,000	Btu/h 408,000
	Heating	Btu/h 405,000	Btu/h 432,000	Btu/h 459,000
Rated Capacity ¹	Cooling	Btu/h 344,000	Btu/h 366,000	Btu/h 390,000
	Heating	Btu/h 384,000	Btu/h 410,000	Btu/h 434,000
Power Voltage	V / Hz / ø	460/60/3	460/60/3	460/60/3
Power/Communication Wiring	No x AWG	2 x 18	2 x 18	2 x 18
Operating Range	Cooling	*F 5-122	*F 5-122	*F 5-122
	Heating	*F -22 - 61	*F -22 - 61	*F -22 - 61
	SimultaneousOperation ²	*F 14 - 81	*F 14 - 81	*F 14 - 81
Dimensions (W×H×D)	Body	in 97-5/8 x 66-17/32 x 29-29/32	in 97-5/8 x 66-17/32 x 29-29/32	in 97-5/8 x 66-17/32 x 29-29/32
	Net	lbs 639+666	lbs 639+666	lbs 659+666
Weight	Shipping	lbs 666+694	lbs 666+694	lbs 688+694
		dB(A) 66.0	dB(A) 66.0	dB(A) 66.0
Sound Pressure ³				
Fan (Propeller)	CFM	22,600	22,600	22,600
Compressor (DC Scroll)	Type	DC Scroll	DC Scroll	DC Scroll
	Oil Type	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity	4	4	4
Heat Exchanger	Coating	Black Coated Fin™	Black Coated Fin™	Black Coated Fin™
	Rows/Fins per Inch	3/17 x 2	3/17 x 2	3/17 x 2
Piping	Liquid Line	in 1/2 + 5/8	in 5/8 + 5/8	in 5/8 + 5/8
	L/P Vapor Line	in 1-1/8 + 1-1/8	in 1-1/8 + 1-1/8	in 1-1/8 + 1-1/8
	H/P Vapor Line ⁴	in 7/8 + 1-1/8	in 7/8 + 1-1/8	in 1-1/8 + 1-1/8
Refrigerant	Type	R410A	R410A	R410A
	Charge	lbs 26.5+37.5	lbs 26.5+37.5	lbs 30.9+37.5
	Control	EEV	EEV	EEV
Maximum Number of Indoor Units ⁵		58	61	64

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 3. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 4. Used in Heat Recovery Systems only.
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MULTI V™ 5

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Powerful Heat Technology
RELIABLE TO EXTREME DEGREES



ARUM***DTE5

Specifications	Unit	ARUM432DTE5	ARUM456DTE5	ARUM480DTE5	ARUM504DTE5
Frames		ARUM121DTE5 ARUM121DTE5 ARUM192DTE5	ARUM121DTE5 ARUM121DTE5 ARUM216DTE5	ARUM121DTE5 ARUM144DTE5 ARUM216DTE5	ARUM121DTE5 ARUM168DTE5 ARUM216DTE5
Tons		36	38	40	42
Nominal Capacity	Cooling	Btu/h 430,500	Btu/h 455,700	Btu/h 476,700	Btu/h 504,000
	Heating	Btu/h 486,000	Btu/h 513,000	Btu/h 540,000	Btu/h 567,000
Rated Capacity ¹	Cooling	Btu/h 410,000	Btu/h 434,000	Btu/h 454,000	Btu/h 480,000
	Heating	Btu/h 460,000	Btu/h 484,000	Btu/h 510,000	Btu/h 534,000
Power Voltage	V / Hz / ø	460/60/3	460/60/3	460/60/3	460/60/3
Power/Communication Wiring	No x AWG	2 x 18	2 x 18	2 x 18	2 x 18
Operating Range	Cooling	*F 5-122	*F 5-122	*F 5-122	*F 5-122
	Heating	*F -22 - 61	*F -22 - 61	*F -22 - 61	*F -22 - 61
	SimultaneousOperation ²	*F 14 - 81	*F 14 - 81	*F 14 - 81	*F 14 - 81
Dimensions (W×H×D)	Body	in 146-7/16 x 66-17/32 x 29-29/32	in 146-7/16 x 66-17/32 x 29-29/32	in 146-7/16 x 66-17/32 x 29-29/32	in 146-7/16 x 66-17/32 x 29-29/32
	Net	lbs 507+507+659	lbs 507+507+666	lbs 507+639+666	lbs 507+639+666
Weight	Shipping	lbs 534+534+688	lbs 534+534+694	lbs 534+666+694	lbs 534+666+694
		dB(A) 66.0	dB(A) 66.0	dB(A) 67.0	dB(A) 67.0
Sound Pressure ³					
Fan (Propeller)	CFM	33,900	33,900	33,900	33,900
Compressor (DC Scroll)	Type	DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Oil Type	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity	4	4	5	5
Heat Exchanger	Coating	Black Coated Fin™	Black Coated Fin™	Black Coated Fin™	Black Coated Fin™
	Rows/Fins per Inch	2/17 x 2 + 3/17	2/17 x 2 + 3/17	2/17 + 3/17 x 2	2/17 + 3/17 x 2
Piping	Liquid Line	in 1/2 + 1/2 + 5/8	in 1/2 + 1/2 + 5/8	in 1/2 + 1/2 + 5/8	in 1/2 + 1/2 + 5/8
	L/P Vapor Line	in 1-1/8 + 1-1/8 + 1-1/8	in 1-1/8 + 1-1/8 + 1-1/8	in 1-1/8 + 1-1/8 + 1-1/8	in 1-1/8 + 1-1/8 + 1-1/8
	H/P Vapor Line ⁴	in 3/4 + 3/4 + 1-1/8	in 3/4 + 3/4 + 1-1/8	in 3/4 + 7/8 + 1-1/8	in 3/4 + 7/8 + 1-1/8
Refrigerant	Type	R410A	R410A	R410A	R410A
	Charge	lbs 23.2+23.2+30.9	lbs 23.2+23.2+37.5	lbs 23.2+26.5+37.5	lbs 23.2+26.5+37.5
	Control	EEV	EEV	EEV	EEV
Maximum Number of Indoor Units ⁵		64	64	64	64

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MULTI V™ S HEAT PUMP



ARUN***GSS4

Specifications	Unit	ARUN024GSS4	ARUN038GSS4	ARUN048GSS4	ARUN060GSS4	
Tons		2	3	4	5	
Nominal Capacity	Cooling	Btu/h	24,000	39,500	50,000	60,000
	Heating	Btu/h	27,000	44,000	56,500	64,000
Rated Capacity ¹	Cooling	Btu/h	24,000	38,000	48,000	60,000
	Heating	Btu/h	27,000	42,000	54,500	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	No x AWG	2 x 18	2 x 18	2 x 18	2 x 18	
Operating Range	Cooling ²	°F	23 - 122	23 - 122	23 - 122	23 - 122
	Heating	°F	-4 - 61	-4 - 61	-4 - 61	-13 - 61
Dimensions (W×H×D)	Body	in	37-13/32x32-27/32x13	37-13/32x54-11/32x13	37-13/32x54-11/32x13	37-13/32x54-11/32x13
	Net	lbs	159	207	207	256
Weight	Shipping	lbs	176	218	218	284
Sound Pressure ³	dB(A)	50	50	51	57	
Fan (Axial Flow Fan)	CFM	2,119	3,885	3,885	3,885	
Compressor	Type		DC Inverter Twin Rotary	DC Inverter Twin Rotary	DC Inverter Twin Rotary	DC Inverter Twin Rotary
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		1	1	1	1
Heat Exchanger	Coating		Gold Fin / Hydrophillic	Gold Fin / Hydrophillic	Gold Fin / Hydrophillic	Gold Fin / Hydrophillic
	Rows/Fins per Inch		2/14	2/14	2/14	3/14
Piping	Liquid Line	in	3/8	3/8	3/8	3/8
	Vapor Line	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
Maximum Number of Indoor Units ⁴		4	6	8	12	

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
 2. Cooling range with the Low Ambient Baffle Kit (sold separately) is -9.9°F to +122°F.
 3. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 4. The System Combination Ratio must be between 50 and 130%.
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MULTI V™ S HEAT RECOVERY



ARUB060GSS4

Specifications	Unit	ARUB060GSS4	
Tons		5	
Nominal Capacity	Cooling	Btu/h	60,000
	Heating	Btu/h	64,000
Rated Capacity ¹	Cooling	Btu/h	60,000
	Heating	Btu/h	64,000
Power Voltage	V / Hz / ø	208-230/60/1	
Power/Communication Wiring	No x AWG	2 x 18	
Operating Range	Cooling ²	°F	23 - 122
	Heating	°F	-13 - 61
Dimensions (W×H×D)	Body	in	37-13/32x54-11/32x13
	Net	lbs	256
Weight	Shipping	lbs	284
Sound Pressure ³	dB(A)	57	
Fan (Axial Flow Fan)	CFM	3,885	
Compressor	Type		Inverter Scroll
	Oil Type		PVE/FVC68D
	Quantity		1
Heat Exchanger	Coating		Gold Fin / Hydrophillic
	Rows/Fins per Inch		3/14
Piping	Liquid Line	in	3/8
	H/P Vapor Line	in	5/8
Refrigerant	L/P Vapor Line	in	3/4
	Type		R410A
	Charge	lbs	7.7
Control		EEV	
Maximum Number of Indoor Units ⁴		12	

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
 2. Cooling range with the Low Ambient Baffle Kit (sold separately) is -9.9°F to +122°F.
 3. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 4. The System Combination Ratio must be between 50 and 130%.
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WATER SOURCE SYSTEMS



LG Multi V Water IV installation at Decorah High School, Decorah, Iowa

MULTI V™ WATER IV HEAT PUMP (208-230V)



ARWN***BAS4

Specifications	Unit	ARWN072BAS4	ARWN096BAS4	ARWN121BAS4	ARWN144BAS4	
Frames		ARWN072BAS4	ARWN096BAS4	ARWN121BAS4	ARWN144BAS4	
Tons		6	8	10	12	
Nominal Capacity	Cooling	Btu/h	72,000	96,000	119,700	144,000
	Heating	Btu/h	81,000	108,000	135,000	162,000
Rated Capacity ¹	Cooling	Btu/h	69,000	92,000	114,000	138,000
	Heating	Btu/h	77,000	103,000	129,000	154,000
Power Voltage	V / Hz / ø	208-230/60/3	208-230/60/3	208-230/60/3	208-230/60/3	
Power/Communication Wiring	No x AWG	2 x 18	2 x 18	2 x 18	2 x 18	
Dimensions (WxHxD)	Body	in	29-3/4x39-1/4x19-3/4	29-3/4x39-1/4x19-3/4	29-3/4x39-1/4x19-3/4	29-3/4x39-1/4x19-3/4
	Net	lbs	280	280	280	280
Weight	Shipping	lbs	302	302	302	302
	Sound Pressure ²	dB(A)	47/51	50/53	56/56	58/57
Water Temperature Range	Cooling	°F	23 - 113	23 - 113	23 - 113	23 - 113
	Heating	°F	14 - 113	14 - 113	14 - 113	14 - 113
Compressor (DC Scroll)	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		1	1	1	1
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	FlowRateNominal	GPM	20.3	25.4	30.4	35.5
	Pressure Drop	ft wg	3.7	4.7	6.9	9.2
Piping	Liquid Line	in	3/8	3/8	1/2	1/2
	Vapor Line	in	7/8	7/8	1-1/8	1-1/8
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charge	lbs	12.8	12.8	12.8	12.8
	Control		EEV	EEV	EEV	EEV
Maximum Number of Indoor Units ³		13	16	20	23	

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahrirdirectory.org.
 2. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 3. The System Combination Ratio must be between 50 and 130%.
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MULTI V WATER IV
Heat Pump & Heat Recovery
6 to 48 Tons



MULTI V™ WATER IV HEAT PUMP (208-230V)



ARWN***BAS4

Specifications		Unit	ARWN192BAS4	ARWN240BAS4	ARWN288BAS4
Frames			ARWN072BAS4 ARWN121BAS4	ARWN121BAS4 ARWN121BAS4	ARWN144BAS4 ARWN144BAS4
Tons			16	20	24
Nominal Capacity	Cooling	Btu/h	192,000	239,400	287,700
	Heating	Btu/h	216,000	270,000	324,000
Rated Capacity ¹	Cooling	Btu/h	184,000	228,000	274,000
	Heating	Btu/h	206,000	256,000	308,000
Power Voltage		V / Hz / ø	208-230/60/3	208-230/60/3	208-230/60/3
Power/Communication Wiring		No x AWG	2 x 18	2 x 18	2 x 18
Dimensions (WxHxD)		Body	63-1/2x39-1/4x19-3/4	63-1/2x39-1/4x19-3/4	63-1/2x39-1/4x19-3/4
Weight	Net	lbs	280 x 2	280 x 2	280 x 2
	Shipping	lbs	302 x 2	302 x 2	302 x 2
Sound Pressure ²		dB(A)	54/60	59/59	59/58
Water Temperature Range	Cooling	°F	23 - 113	23 - 113	23 - 113
	Heating	°F	14 - 113	14 - 113	14 - 113
Compressor	Type		DC Scroll	DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		2	2	2
	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Flow Rate Nominal	GPM	20.3 + 30.4	30.4 + 30.4	35.5 + 35.5
	Pressure Drop	ft wg	3.7 + 6.9	6.9 + 6.9	9.2 + 9.2
	Liquid Line	in	3/8 + 1/2	1/2 + 1/2	1/2 + 1/2
Piping	Vapor Line	in	7/8 + 1-1/8	1-1/8 + 1-1/8	1-1/8 + 1-1/8
	Type		R410A	R410A	R410A
Refrigerant	Charge	lbs	12.8 + 12.8	12.8 + 12.8	12.8 + 12.8
	Control		EEV	EEV	EEV
Maximum Number of Indoor Units ³			32	39	45

MULTI V™ WATER IV HEAT PUMP (208-230V)



ARWN***BAS4

Specifications		Unit	ARWN336BAS4	ARWN432BAS4
Frames			ARWN121BAS4 ARWN121BAS4 ARWN096BAS4	ARWN144BAS4 ARWN144BAS4 ARWN144BAS4
Tons			28	36
Nominal Capacity	Cooling	Btu/h	336,000	430,500
	Heating	Btu/h	378,000	486,000
Rated Capacity ¹	Cooling	Btu/h	320,000	410,000
	Heating	Btu/h	360,000	460,000
Power Voltage		V / Hz / ø	208-230/60/3	208-230/60/3
Power/Communication Wiring		No x AWG	2 x 18	2 x 18
Dimensions (WxHxD)		Body	97-1/4x39-1/4x19-3/4	97-1/4x39-1/4x19-3/4
Weight	Net	lbs	280 x 3	280 x 3
	Shipping	lbs	302 x 3	302 x 3
Sound Pressure ²		dB(A)	60/64	58/62
Water Temperature Range	Cooling	°F	23 - 113	23 - 113
	Heating	°F	14 - 113	14 - 113
Compressor	Type		DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D
	Quantity		3	3
	Type		Stainless Steel Plate	Stainless Steel Plate
Heat Exchanger	Flow Rate Nominal	GPM	30.4 + 30.4 + 25.4	35.5 + 35.5 + 35.5
	Pressure Drop	ft wg	6.9 + 6.9 + 4.7	9.2 + 9.2 + 9.2
	Liquid Line	in	1/2 + 1/2 + 3/8	1/2 + 1/2 + 1/2
Piping	Vapor Line	in	1-1/8 + 1-1/8 + 7/8	1-1/8 + 1-1/8 + 1-1/8
	Type		R410A	R410A
Refrigerant	Charge	lbs	12.8 + 12.8 + 12.8	12.8 + 12.8 + 12.8
	Control		EEV	EEV
Maximum Number of Indoor Units ³			55	64

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
 2. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 3. The System Combination Ratio must be between 50 and 130%.
 4. Due to our commitment to continued innovation, some specifications may be changed without notification.

MULTI V™ WATER IV HEAT PUMP (460V)



ARWN***DAS4

Specifications		Unit	ARWN072DAS4	ARWN096DAS4	ARWN121DAS4	ARWN144DAS4	ARWN192DAS4
Frames			ARWN072DAS4	ARWN096DAS4	ARWN121DAS4	ARWN144DAS4	ARWN192DAS4
Tons			6	8	10	12	16
Nominal Capacity	Cooling	Btu/h	72,000	96,000	119,700	144,000	192,000
	Heating	Btu/h	81,000	108,000	135,000	162,000	216,000
Rated Capacity ¹	Cooling	Btu/h	69,000	92,000	114,000	138,000	184,000
	Heating	Btu/h	77,000	103,000	129,000	154,000	206,000
Power Voltage		V / Hz / ø	460/60/3	460/60/3	460/60/3	460/60/3	460/60/3
Power/Communication Wiring		NoxAWG	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Dimensions (WxHxD)	Body	in	29-3/4x39-1/4x19-3/4	29-3/4x39-1/4x19-3/4	29-3/4x39-1/4x19-3/4	29-3/4x39-1/4x19-3/4	29-3/4x39-1/4x19-3/4
	Net	lbs	280	280	280	309	309
Weight	Shipping	lbs	302	302	302	331	331
Sound Pressure ²		dB(A)	47/51	50/53	56/56	58/57	54/60
Water Temperature Range	Cooling	°F	23 - 113	23 - 113	23 - 113	23 - 113	23 - 113
	Heating	°F	14 - 113	14 - 113	14 - 113	14 - 113	14 - 113
Compressor	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		1	1	1	1	1
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	FlowRateNominal	GPM	20.3	25.4	30.4	35.5	50.7
	Pressure Drop	ft wg	3.7	4.7	6.9	4.7	9.2
Piping	Liquid Line	in	3/8	3/8	1/2	1/2	1/2
	Vapor Line	in	7/8	7/8	1-1/8	1-1/8	1-1/8
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Charge	lbs	12.8	12.8	12.8	6.6	6.6
	Control		EEV	EEV	EEV	EEV	EEV
Maximum Number of Indoor Units ³			13	16	20	23	32

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
 2. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 3. The System Combination Ratio must be between 50 and 130%.
 4. Due to our commitment to continued innovation, some specifications may be changed without notification.

MULTI V™ WATER IV HEAT PUMP (460V)



ARWN***DAS4

Specifications		Unit	ARWN240DAS4	ARWN288DAS4	ARWN336DAS4
Frames			ARWN096DAS4 ARWN144DAS4	ARWN144DAS4 ARWN144DAS4	ARWN192DAS4 ARWN144DAS4
Tons			20	24	28
Nominal Capacity	Cooling	Btu/h	239,400	287,700	336,000
	Heating	Btu/h	270,000	324,000	378,000
Rated Capacity ¹	Cooling	Btu/h	228,000	274,000	320,000
	Heating	Btu/h	256,000	308,000	360,000
Power Voltage		V / Hz / ø	460/60/3	460/60/3	460/60/3
Power/Communication Wiring		NoxAWG	2 x 18	2 x 18	2 x 18
Dimensions (WxHxD)	Body	in	63-1/2x39-1/4x19-3/4	63-1/2x39-1/4x19-3/4	63-1/2x39-1/4x19-3/4
	Net	lbs	280 + 309	309 + 309	309 + 309
Weight	Shipping	lbs	302 + 331	331 + 331	331 + 331
Sound Pressure ²		dB(A)	57/57	58/57	59/62
Water Temperature Range	Cooling	°F	23 - 113	23 - 113	23 - 113
	Heating	°F	14 - 113	14 - 113	14 - 113
Compressor	Type		DC Scroll	DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		2	2	2
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	FlowRateNominal	GPM	25.4 + 35.5	35.5 + 35.5	50.7 + 35.5
	Pressure Drop	ft wg	4.7 + 4.7	4.7 + 4.7	9.7 + 4.7
Piping	Liquid Line	in	3/8 + 1/2	1/2 + 1/2	1/2 + 1/2
	Vapor Line	in	7/8 + 1-1/8	1-1/8 + 1-1/8	1-1/8 + 1-1/8
Refrigerant	Type		R410A	R410A	R410A
	Charge	lbs	12.8 + 6.6	6.6 + 6.6	6.6 + 6.6
	Control		EEV	EEV	EEV
Maximum Number of Indoor Units ³			39	45	55

MULTI V™ WATER IV HEAT PUMP (460V)



ARWN***DAS4

Specifications	Unit	ARWN432DAS4	ARWN480DAS4	ARWN576DAS4
Frames		ARWN144DAS4 ARWN144DAS4 ARWN144DAS4	ARWN144DAS4 ARWN144DAS4 ARWN192DAS4	ARWN192DAS4 ARWN192DAS4 ARWN192DAS4
Tons		36	40	48
Nominal Capacity	Cooling	Btu/h 430,500	Btu/h 472,500	Btu/h 571,200
	Heating	Btu/h 486,000	Btu/h 540,000	Btu/h 648,000
Rated Capacity ¹	Cooling	Btu/h 410,000	Btu/h 450,000	Btu/h 544,000
	Heating	Btu/h 460,000	Btu/h 510,000	Btu/h 610,000
Power Voltage	V / Hz / ø	460/60/3	460/60/3	460/60/3
Power/Communication Wiring	No x AWG	2 x 18	2 x 18	2 x 18
Dimensions (WxHxD)	Body	in 97-1/4x39-1/4x19-3/4	in 97-1/4x39-1/4x19-3/4	in 97-1/4x39-1/4x19-3/4
	Net	lbs 309 x 3	lbs 309 x 3	lbs 309 x 3
Weight	Shipping	lbs 331 x 3	lbs 331 x 3	lbs 331 x 3
	Sound Pressure ²	dB(A) 62/63	dB(A) 60/62	dB(A) 60/62
Water Temperature Range	Cooling	°F 23 - 113	°F 23 - 113	°F 23 - 113
	Heating	°F 14 - 113	°F 14 - 113	°F 14 - 113
Compressor	Type	DC Scroll	DC Scroll	DC Scroll
	Oil Type	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity	3	3	3
Heat Exchanger	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Flow Rate Nominal	GPM 35.5 + 35.5 + 35.5	GPM 35.5 + 35.5 + 50.7	GPM 50.7 + 50.7 + 50.7
	Pressure Drop	ft wg 4.7 + 4.7 + 4.7	ft wg 4.7 + 4.7 + 9.2	ft wg 9.2 + 9.2 + 9.2
Piping	Liquid Line	in 1/2 + 1/2 + 1/2	in 1/2 + 1/2 + 1/2	in 1/2 + 1/2 + 1/2
	Vapor Line	in 1-1/8 + 1-1/8 + 1-1/8	in 1-1/8 + 1-1/8 + 1-1/8	in 1-1/8 + 1-1/8 + 1-1/8
Refrigerant	Type	R410A	R410A	R410A
	Charge	lbs 6.6 + 6.6 + 6.6	lbs 6.6 + 6.6 + 6.6	lbs 6.6 + 6.6 + 6.6
	Control	EEV	EEV	EEV
Maximum Number of Indoor Units ³		64	64	64

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
 2. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 3. The System Combination Ratio must be between 50 and 130%.
 4. Due to our commitment to continued innovation, some specifications may be changed without notification.

MULTI V™ WATER IV HEAT RECOVERY (208-230V)



ARWB***BAS4

Specifications	Unit	ARWB072BAS4	ARWB096BAS4	ARWB121BAS4	ARWB144BAS4
Frames		ARWB072BAS4	ARWB096BAS4	ARWB121BAS4	ARWB144BAS4
Tons		6	8	10	12
Nominal Capacity	Cooling	Btu/h 72,000	Btu/h 96,000	Btu/h 119,700	Btu/h 144,000
	Heating	Btu/h 81,000	Btu/h 108,000	Btu/h 135,000	Btu/h 162,000
Rated Capacity ¹	Cooling	Btu/h 69,000	Btu/h 92,000	Btu/h 114,000	Btu/h 138,000
	Heating	Btu/h 77,000	Btu/h 103,000	Btu/h 129,000	Btu/h 154,000
Power Voltage	V / Hz / ø	208-230/60/3	208-230/60/3	208-230/60/3	208-230/60/3
Power/Communication Wiring	No x AWG	2 x 18	2 x 18	2 x 18	2 x 18
Dimensions (WxHxD)	Body	in 29-3/4x39-1/4x19-3/4	in 29-3/4x39-1/4x19-3/4	in 29-3/4x39-1/4x19-3/4	in 29-3/4x39-1/4x19-3/4
	Net	lbs 280	lbs 280	lbs 280	lbs 280
Weight	Shipping	lbs 302	lbs 302	lbs 302	lbs 302
	Sound Pressure ²	dB(A) 47/51	dB(A) 50/53	dB(A) 56/56	dB(A) 58/57
Water Temperature Range	Cooling	°F 23 - 113	°F 23 - 113	°F 23 - 113	°F 23 - 113
	Heating	°F 14 - 113	°F 14 - 113	°F 14 - 113	°F 14 - 113
	Synchronous Operation	°F 23 - 113	°F 23 - 113	°F 23 - 113	°F 23 - 113
Compressor	Type	DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Oil Type	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity	1	1	1	1
Heat Exchanger	Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Flow Rate Nominal	GPM 20.3	GPM 25.4	GPM 30.4	GPM 35.5
	Pressure Drop	ft wg 3.7	ft wg 4.7	ft wg 6.9	ft wg 9.2
Piping	Liquid Line	in 3/8	in 3/8	in 1/2	in 1/2
	L/P Vapor Line	in 7/8	in 7/8	in 1-1/8	in 1-1/8
	H/P Vapor Line	in 3/4	in 3/4	in 3/4	in 3/4
Refrigerant	Type	R410A	R410A	R410A	R410A
	Charge	lbs 12.8	lbs 12.8	lbs 12.8	lbs 12.8
	Control	EEV	EEV	EEV	EEV
Maximum Number of Indoor Units ³		13	16	20	23

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
 2. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 3. The System Combination Ratio must be between 50 and 130%.
 4. Due to our commitment to continued innovation, some specifications may be changed without notification.

MULTI V™ WATER IV HEAT RECOVERY (208-230V)



ARWB***BAS4

Specifications		Unit	ARWN192BAS4	ARWB216BAS4	ARWB240BAS4	ARWB288BAS4
Frames			ARWN072BAS4 ARWN121BAS4	ARWB072BAS4 ARWB144BAS4	ARWB121BAS4 ARWB121BAS4	ARWB144BAS4 ARWB144BAS4
Tons			16	18	20	24
Nominal Capacity	Cooling	Btu/h	192,000	216,000	239,400	287,700
	Heating	Btu/h	216,000	243,000	270,000	324,000
Rated Capacity ¹	Cooling	Btu/h	184,000	206,000	228,000	274,000
	Heating	Btu/h	206,000	232,000	256,000	308,000
Power Voltage		V / Hz / ø	208-230/60/3	208-230/60/3	208-230/60/3	208-230/60/3
Power/Communication Wiring		No x AWG	2 x 18	2 x 18	2 x 18	2 x 18
Dimensions (WxHxD)	Body	in	63-1/2x39-1/4x19-3/4	63-1/2x39-1/4x19-3/4	63-1/2x39-1/4x19-3/4	63-1/2x39-1/4x19-3/4
	Net	lbs	280 x 2	280 x 2	280 x 2	280 x 2
Weight	Shipping	lbs	302 x 2	302 x 2	302 x 2	302 x 2
		dB(A)	54/60	57/57	59/59	59/58
Water Temperature Range	Cooling	°F	23 - 113	23 - 113	23 - 113	23 - 113
	Heating	°F	14 - 113	14 - 113	14 - 113	14 - 113
	Synchronous Operation	°F	23 - 113	23 - 113	23 - 113	23 - 113
Compressor	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		2	2	2	2
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Flow Rate Nominal	GPM	20.3 + 30.4	20.3 + 35.5	30.4 + 30.4	35.5 + 35.5
	Pressure Drop	ft wg	3.7 + 6.9	3.7 + 9.2	6.9 + 6.9	9.2 + 9.2
Piping	Liquid Line	in	3/8 + 1/2	3/8 + 1/2	1/2 + 1/2	1/2 + 1/2
	L/P Vapor Line	in	7/8 + 1-1/8	7/8 + 1-1/8	1-1/8 + 1-1/8	1-1/8 + 1-1/8
	H/P Vapor Line	in	3/4 + 3/4	3/4 + 3/4	3/4 + 3/4	3/4 + 3/4
Refrigerant	Type		R410A	R410A	R410A	R410A
	Charge	lbs	12.8 + 12.8	12.8 + 12.8	12.8 + 12.8	12.8 + 12.8
	Control		EEV	EEV	EEV	EEV
Maximum Number of Indoor Units ³			32	35	39	45

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
 2. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 3. The System Combination Ratio must be between 50 and 130%.
 4. Due to our commitment to continued innovation, some specifications may be changed without notification.

MULTI V™ WATER IV HEAT RECOVERY (208-230V)



ARWB***BAS4

Specifications		Unit	ARWB336BAS4	ARWB432BAS4
Frames			ARWB121BAS4 ARWB121BAS4 ARWB096BAS4	ARWB144BAS4 ARWB144BAS4 ARWB144BAS4
Tons			28	36
Nominal Capacity	Cooling	Btu/h	336,000	430,500
	Heating	Btu/h	378,000	486,000
Rated Capacity ¹	Cooling	Btu/h	320,000	410,000
	Heating	Btu/h	360,000	460,000
Power Voltage		V / Hz / ø	208-230/60/3	208-230/60/3
Power/Communication Wiring		No x AWG	2 x 18	2 x 18
Dimensions (WxHxD)	Body	in	97-1/4x39-1/4x19-3/4	97-1/4x39-1/4x19-3/4
	Net	lbs	280 x 3	280 x 3
Weight	Shipping	lbs	302 x 3	302 x 3
		dB(A)	60/64	58/62
Water Temperature Range	Cooling	°F	23 - 113	23 - 113
	Heating	°F	14 - 113	14 - 113
	Synchronous Operation	°F	23 - 113	23 - 113
Compressor	Type		DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D
	Quantity		3	3
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate
	Flow Rate Nominal	GPM	30.4 + 30.4 + 25.4	35.5 + 35.5 + 35.5
	Pressure Drop	ft wg	6.9 + 6.9 + 4.7	9.2 + 9.2 + 9.2
Piping	Liquid Line	in	1/2+1/2 + 3/8	1/2+1/2+1/2
	L/P Vapor Line	in	1-1/8 + 1-1/8 + 7/8	1-1/8 + 1-1/8 + 1-1/8
	H/P Vapor Line	in	3/4 + 3/4 + 3/4	3/4 + 3/4 + 3/4
Refrigerant	Type		R410A	R410A
	Charge	lbs	12.8 + 12.8 + 12.8	12.8 + 12.8 + 12.8
	Control		EEV	EEV
Maximum Number of Indoor Units ³			55	64

MULTI V™ WATER IV HEAT RECOVERY (460V)



ARWB***DAS4

Specifications		Unit	ARWB072DAS4	ARWB096DAS4	ARWB121DAS4	ARWB144DAS4	ARWB192DAS4
Frames			ARWB072DAS4	ARWB096DAS4	ARWB121DAS4	ARWB144DAS4	ARWB192DAS4
Tons			6	8	10	12	16
Nominal Capacity	Cooling	Btu/h	72,000	96,000	119,700	144,000	192,000
	Heating	Btu/h	81,000	108,000	135,000	162,000	216,000
Rated Capacity ¹	Cooling	Btu/h	69,000	92,000	114,000	138,000	184,000
	Heating	Btu/h	77,000	103,000	129,000	154,000	206,000
Power Voltage		V / Hz / ø	460/60/3	460/60/3	460/60/3	460/60/3	460/60/3
Power/Communication Wiring		NoxAWG	2 x 18	2 x 18	2 x 18	2 x 18	2 x 18
Dimensions (WxHxD)	Body	in	29-3/4x39-1/4x19-3/4	29-3/4x39-1/4x19-3/4	29-3/4x39-1/4x19-3/4	29-3/4x39-1/4x19-3/4	29-3/4x39-1/4x19-3/4
	Net	lbs	280	280	280	309	309
Weight	Shipping	lbs	302	302	302	331	331
	Sound Pressure ²	dB(A)	47/51	50/53	56/56	58/57	54/60
Water Temperature Range	Cooling	°F	23 - 113	23 - 113	23 - 113	23 - 113	23 - 113
	Heating	°F	14 - 113	14 - 113	14 - 113	14 - 113	14 - 113
	Synchronous Operation	°F	23 - 113	23 - 113	23 - 113	23 - 113	23 - 113
Compressor	Type		DC Scroll	DC Scroll	DC Scroll	DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		1	1	1	1	1
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Flow Rate Nominal	GPM	20.3	25.4	30.4	35.5	50.7
	Pressure Drop	ft wg	3.7	4.7	6.9	4.7	9.2
Piping	Liquid Line	in	3/8	3/8	1/2	1/2	1/2
	L/P Vapor Line	in	7/8	7/8	7/8	1-1/8	1-1/8
	H/P Vapor Line	in	3/4	3/4	3/4	3/4	3/4
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Charge	lbs	12.8	12.8	12.8	6.6	6.6
	Control		EEV	EEV	EEV	EEV	EEV
Maximum Number of Indoor Units ³			13	16	20	23	32

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
 2. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 3. The System Combination Ratio must be between 50 and 130%.
 4. Due to our commitment to continued innovation, some specifications may be changed without notification.

MULTI V™ WATER IV HEAT RECOVERY (460V)



ARWB***DAS4

Specifications		Unit	ARWB240DAS4	ARWB289DAS4	ARWB337DAS4
Frames			ARWB096DAS4 ARWB144DAS4	ARWB144DAS4 ARWB144DAS4	ARWB192DAS4 ARWB144DAS4
Tons			20	24	28
Nominal Capacity	Cooling	Btu/h	239,400	287,700	336,000
	Heating	Btu/h	270,000	324,000	378,000
Rated Capacity ¹	Cooling	Btu/h	228,000	274,000	320,000
	Heating	Btu/h	256,000	308,000	360,000
Power Voltage		V / Hz / ø	460/60/3	460/60/3	460/60/3
Power/Communication Wiring		No x AWG	2 x 18	2 x 18	2 x 18
Dimensions (WxHxD)	Body	in	63-1/2x39-1/4x19-3/4	63-1/2x39-1/4x19-3/4	63-1/2x39-1/4x19-3/4
	Net	lbs	280 + 309	309 + 309	309 + 309
Weight	Shipping	lbs	302 + 331	331 + 331	331 + 331
	Sound Pressure ²	dB(A)	57/57	58/57	59/62
Water Temperature Range	Cooling	°F	23 - 113	23 - 113	23 - 113
	Heating	°F	14 - 113	14 - 113	14 - 113
	Synchronous Operation	°F	23 - 113	23 - 113	23 - 113
Compressor	Type		DC Scroll	DC Scroll	DC Scroll
	Oil Type		PVE/FVC68D	PVE/FVC68D	PVE/FVC68D
	Quantity		2	2	2
Heat Exchanger	Type		Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate
	Flow Rate Nominal	GPM	25.4 + 35.5	35.5 + 35.5	50.7 + 35.5
	Pressure Drop	ft wg	4.7 + 4.7	4.7 + 4.7	9.2 + 4.7
Piping	Liquid Line	in	3/8 + 1/2	1/2 + 1/2	1/2 + 1/2
	L/P Vapor Line	in	7/8 + 1-1/8	1-1/8 + 1-1/8	1-1/8 + 1-1/8
	H/P Vapor Line	in	3/4 + 3/4	3/4 + 3/4	3/4 + 3/4
Refrigerant	Type		R410A	R410A	R410A
	Charge	lbs	12.8 + 6.6	6.6 + 6.6	6.6 + 6.6
	Control		EEV	EEV	EEV
Maximum Number of Indoor Units ³			39	45	55

MULTI V™ WATER IV HEAT RECOVERY (460V)



ARWB***DAS4

Specifications		Unit	ARWB432DAS4	ARWB480DAS4	ARWB576DAS4	
Frames			ARWB144DAS4 ARWB144DAS4 ARWB144DAS4	ARWB144DAS4 ARWB144DAS4 ARWB192DAS4	ARWB192DAS4 ARWB192DAS4 ARWB192DAS4	
Tons			36	40	48	
Nominal Capacity	Cooling	Btu/h	430,500	472,500	571,200	
	Heating	Btu/h	486,000	540,000	648,000	
Rated Capacity ¹	Cooling	Btu/h	410,000	450,000	544,000	
	Heating	Btu/h	460,000	510,000	610,000	
Power Voltage		V / Hz / Ø	460/60/3	460/60/3	460/60/3	
Power/Communication Wiring		No x AWG	2 x 18	2 x 18	2 x 18	
Dimensions (WxHxD)		Body	97-1/4x39-1/4x19-3/4	97-1/4x39-1/4x19-3/4	97-1/4x39-1/4x19-3/4	
Weight	Net	lbs	309 x 3	309 x 3	309 x 3	
	Shipping	lbs	331 x 3	331 x 3	331 x 3	
Sound Pressure ²		dB(A)	62/63	60/62	60/62	
Water Temperature Range	Cooling	°F	23 - 113	23 - 113	23 - 113	
	Heating	°F	14 - 113	14 - 113	14 - 113	
	Synchronous Operation	°F	23 - 113	23 - 113	23 - 113	
Compressor		Type	DC Scroll	DC Scroll	DC Scroll	
		Oil Type	PVE/FVC68D	PVE/FVC68D	PVE/FVC68D	
		Quantity	3	3	3	
Heat Exchanger		Type	Stainless Steel Plate	Stainless Steel Plate	Stainless Steel Plate	
		Flow Rate Nominal	GPM	35.5 + 35.5 + 35.5	35.5 + 35.5 + 50.7	50.7 + 50.7 + 50.7
		Pressure Drop	ft wg	4.7 + 4.7 + 4.7	4.7 + 4.7 + 9.2	9.2 + 9.2 + 9.2
Piping		Liquid Line	in	1/2 + 1/2 + 1/2	1/2 + 1/2 + 1/2	1/2 + 1/2 + 1/2
		L/P Vapor Line	in	1-1/8 + 1-1/8 + 1-1/8	1-1/8 + 1-1/8 + 1-1/8	1-1/8 + 1-1/8 + 1-1/8
		H/P Vapor Line	in	3/4 + 3/4 + 3/4	3/4 + 3/4 + 3/4	3/4 + 3/4 + 3/4
Refrigerant		Type	R410A	R410A	R410A	
		Charge	lbs	6.6 + 6.6 + 6.6	6.6 + 6.6 + 6.6	6.6 + 6.6 + 6.6
		Control	EEV	EEV	EEV	
Maximum Number of Indoor Units ³			64	64	64	

1. Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.
 2. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
 3. The System Combination Ratio must be between 50 and 130%.
 4. Due to our commitment to continued innovation, some specifications may be changed without notification.

AIR TECHNOLOGIES

ENERGY RECOVERY VENTILATOR (ERV)

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OUTSIDE AIR UNIT (OAU)

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AIR HANDLING UNIT (AHU) MODULES

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ROOFTOP DOAS (DEDICATED OUTDOOR AIR SYSTEM)

43

ERV (ENERGY RECOVERY VENTILATOR)



ARVU*****A2

The LG ERV system allows users to exchange indoor air with outdoor air in order to improve the air quality by reducing the temperature and humidity of incoming fresh air. Easy to maintain while providing superior energy savings and performance, LG ERV is an ideal solution for hotels, dormitories, restaurants, hospitals, retail establishments, theaters, schools and office buildings.

Specifications		Unit	053ZE	063ZE	093ZF	123ZF
Performance	Capacity	CFM	470	590	880	1,180
	Power Input (SH1)	Watts	360	470	720	930
Operation Range		°F DB	14-113	14-113	14-113	14-113
Heat Exchanger Data	Air-to-Air Heat Exchanger		Cross-Flow Fixed Core	Cross-Flow Fixed Core	Cross-Flow Fixed Core	Cross-Flow Fixed Core
	Quantity		1	1	1	1
Temperature Exchanger Efficiency	Cooling (Fan Speed SH)	%	62	59	62	59
	Entering Water Temp Range	°F	41-113			53-167
Enthalpy Exchange Efficiency	Cooling (Fan Speed SH)	%	37	34	37	34
	Heating (Fan Speed SH)	%	52	49	52	49
Unit Data	Sound Pressure	dB(A)	40/37/31	41/39/33	44/41/35	45/41/35
	Net Unit Weight	lbs	148	148	331	331
	Shipping Weight	lbs	177	177	397	397
	Dimensions (WxHxD)	in	44-7/8 x 41-13/16 x 14-3/8	44-7/8 x 41-13/16 x 14-3/8	44-7/8 x 41-13/16 x 29-1/16	44-7/8 x 41-13/16 x 29-1/16
	Rated Amps	A	2.8	3.44	5.62	6.82
Electrical Data	Power Supply	V / Hz / ø	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
	Power Input (Cooling)	Watts	360/270/165	470/385/210	720/540/340	930/770/420
	Power Input (Heating)	Watts	360/270/165	470/385/210	720/540/340	930/770/420
Fan	Type		Cross Flow	Cross Flow	Cross Flow	Cross Flow
	Quantity		2	2	2	2
	Motor/Drive		BLDC	BLDC	BLDC	BLDC
	Airflow Rate (SH/H/L)	CFM	471/471/388	589/589/471	883/883/706	1177/1177/942
	ExternalStaticPressure(SH/H/L)	in wg	0.80/0.44/0.24	0.64/0.36/0.20	0.80/0.44/0.24	0.64/0.36/0.20
Filters	Quantity		2	2	4	4
	Size	in	41-9/16" x 8-3/8" x 13/32"	41-9/16" x 8-3/8" x 13/32"	41-9/16" x 8-3/8" x 13/32"	41-9/16" x 8-3/8" x 13/32"

Accessories

Description	Model
PI-485	PFNFP14A0

1. SH - Super-high condensate drain not required. ERV temperature and enthalpy exchange efficiencies are in accordance with AHRI 1060 test conditions, 100% airflow, and 0" external static pressure.
Cooling: Outdoor 95°F DB, 78°F WB; Exhaust 75°F DB, 63°F WB
Heating: Outdoor 35°F DB, 33°F WB; Exhaust 70°F DB, 58°F WB

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

OAU (OUTSIDE AIR UNIT)



ARNU483B8Z4
ARNU763B8Z4
ARNU963B8Z4

Specifications		Unit	ARNU483B8Z4	ARNU763B8Z4	ARNU963B8Z4
Cooling Mode Performance	Capacity	Btu/h	48,100	76,400	95,900
	Power Input ¹	W	180	230	360
Heating Mode Performance	Capacity	Btu/h	46,115	73,080	91,360
	Power Input ¹	W	180	230	360
Entering Air	Cooling Max	°F WB	90	90	90
	Heating Min	°F DB	23	23	23
Unit Data	Refrigerant Type ²		R410A	R410A	R410A
	Refrigerant Control		EEV	EEV	EEV
	Sound Power ³	dB(A)	54	56	57
	Dimensions (WxHxD)	in	61-1/2 x 18-1/8 x 27-1/8	61-1/2 x 18-1/8 x 27-1/8	61-1/2 x 18-1/8 x 27-1/8
	Net Unit Weight	lbs	161	161	161
Fan	Shipping Weight	lbs	191	191	191
	Communication Cable ⁴	No. x AWG	2 x 18	2 x 18	2 x 18
	Type		Sirocco	Sirocco	Sirocco
	Motor		1	1	1
	Motor/Drive		Brushless Digitally Controlled / Direct	Brushless Digitally Controlled / Direct	Brushless Digitally Controlled / Direct
Piping (Main Coil)	Airflow Rate (H/M/L)	CFM	708/477/477	837 / 446 / 446	1,261 / 837 / 837
	External Static Pressure	in wg	0.7	0.87	0.87
	Liquid Line (OD)	in	3/8 Flare	3/8 Flare	3/8 Flare
Condensate	Vapor Line (OD)	in	5/8 Brazed	3/4 Brazed	7/8 Brazed
	Condensate Line (OD)	in	1	1	1
Electrical Data	MCA	A	2.7	2.7	2.7
	MOP	A	15	15	15
	Power Supply	V / Hz / ø	208-230/60/1	208-230/60/1	208-230/60/1

Accessories

Description	Model
High-Capacity Filter Box for B8 HSD Chassis	ZFBXB801A

1. The power input is rated at high speed.
2. Take appropriate actions at the end of HVAC equipment life to recover, recycle, reclaim or destroy R410A refrigerant according to applicable regulations (40 CFR Part 82, Subpart F) under section 608 of CAA.
3. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. All communication cables to be minimum 18 AWG, four-conductor, stranded, and shielded, and must comply with applicable local and national codes.

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

AIR HANDLING UNIT (AHU) CONVERSION KIT

Solution to extend LG VRF technology to third-party Air Handling Units.



PAHCMR000



PAHCMS000

Communication Kit



EEV Kit

- PRLK048A0
- PRLK096A0
- PRLK396A0
- PRLK594A0

Specifications

Type	Model Name	Combination				Description	Dimensions (in)			
		Outdoor unit	EEV Kit	Expansion Kit	Central controller		W	H	D	Weight
Communication Kit	PAHCMR000	MULTI V, Single Split	●	●	●	Return/room air by remote controller or dry contact control	11-13/16	11-13/16	6-1/8	13.7 lb
	PAHCMS000	MULTI V, Single Split	●	●	●	Discharge air or supply air (capacity) control by DDC	14-3/4	11-13/16	6-1/8	16.4 lb

NOTE: Available functions/features may differ based on the connected system. Due to our commitment to continued innovation, some specifications may be changed without notification.

Specifications

Type	Model Name	Capacity Range	Dimensions (in)		
			W	H	D
EEV Kit	PRLK048A0	8 tons maximum	8-5/8	15-15/16	3-5/16
	PRLK096A0	16 tons maximum	8-5/8	15-15/16	3-5/16
	PRLK396A0	32 tons maximum	8-1/2	13-1/2	7-1/8
	PRLK594A0*	48 tons maximum	11	13-1/2	7-1/8

Can be used in combination with or without indoor units. Several EEV kits can be connected to a single outdoor unit.

* In order for the PRLK594A0 to work with the PAHCMS000 the EV Control Module is required - PAEEVA020. This module will come in the box with the PRLK594A0.

Function list for Communication Kit

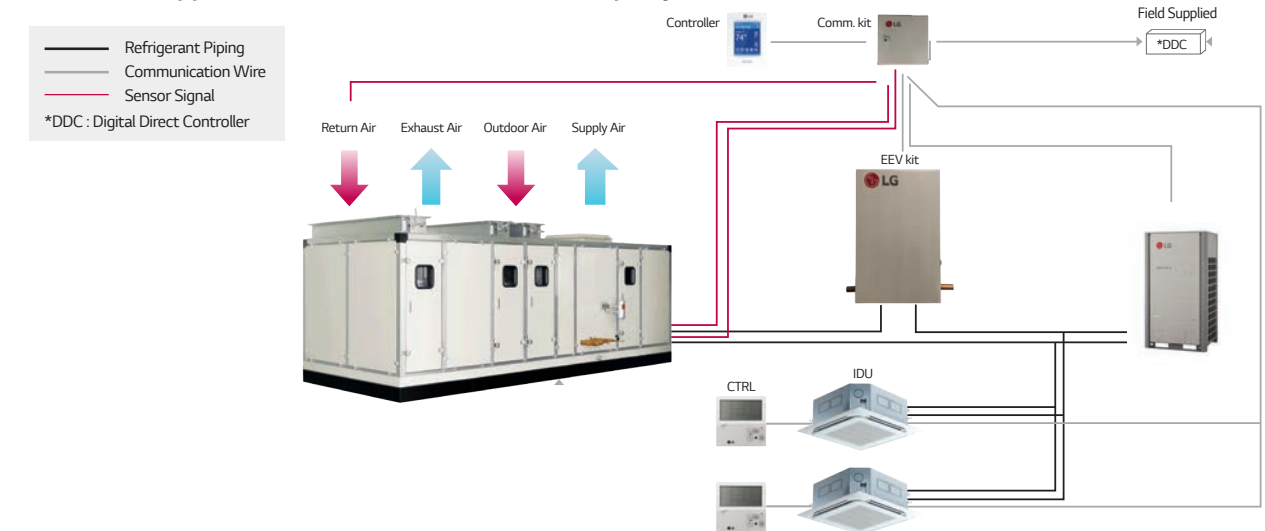
	List	Description	Specification			
			PAHCMR000		PAHCMS000	
			Min	Type	Min	Max
Controlling	Outdoor Unit Operation	On/Off	By wired controller*	Digital input** (Non-voltage)	-	-
	Mode	Cooling/Heating only		Digital input (Non-voltage)	-	-
	Fan Step	High/mid/low (three steps)	Applied	Digital input (Non-voltage)	Not Applied	
	Room Temperature Control	Cooling 64 ~ 86°F; Heating 60 ~ 86°F	By wired controller*	Analog input	0 V	10 V
	Supply Air Temperature (by outdoor capacity control)	Compressor Off Compressor Off & Fan Off, 40 ~ 100% capacity control	-	Analog input	0 V	10 V
Monitoring	Outdoor Unit Operation	On/Off	-	Digital input** (Non-voltage)	Max : AC 250 V, DC 30 V, 1A	
	AHU Communication Kit Operation	On/Off	-	Digital input (Non-voltage)	Max : AC 250 V, DC 30 V, 1A	
	Outdoor Mode	Fan/defrost/cooling/heating	-	Digital input (Non-voltage)	Max : AC 250 V, DC 30 V, 1A	
	Fan Mode	High/mid/low (three steps)	-	Digital input (Non-voltage)	Max : AC 250 V, DC 30 V, 1A	
	Error Status	No error/error occurred	-	Digital input (Non-voltage)	Max : AC 250 V, DC 30 V, 1A	

* Optional accessory, recommended model : PREMTB10U

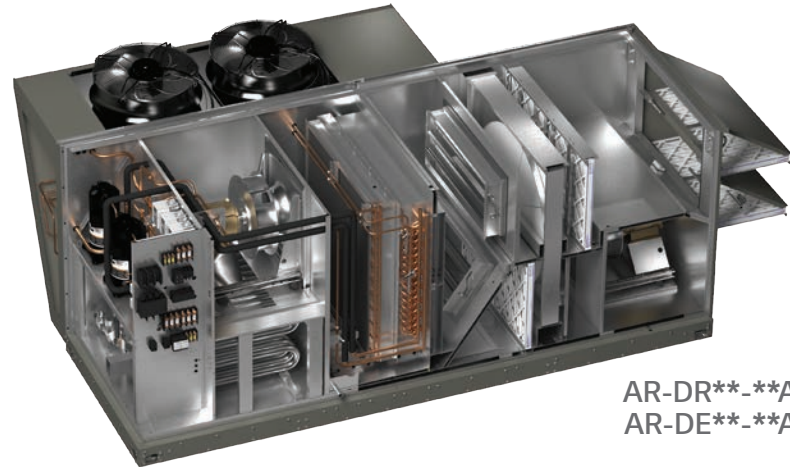
** Binary input and output (Open and short), DO is normal open

System Architecture

• MULTI V™ Application (in Combination with third-party AHU)



ROOFTOP DOAS



AR-DR**-**A
AR-DE**-**A

The LG Rooftop DOAS product line ranges from 5 tons to 70 tons in cooling capacity and up to 18,000 CFM of airflow capacity. Rooftop DOAS units are highly configurable to meet any local design requirement such as heating options including indirect gas furnace with modulating gas controls, SCR controlled electric, or hot water coil options. Available with inverter scroll or digital scroll compressors, split systems, bottom or side discharge.

Unit Type					
Chassis Size		12	22	31	35
Model Numbers		AR-DR12-05A AR-DR12-07A AR-DR12-10A AR-DR12-12A AR-DR12-15A AR-DE12-05A AR-DE12-07A AR-DE12-10A AR-DE12-12A AR-DE12-15A	AR-DR22-15A AR-DR22-17A AR-DR22-20A AR-DR22-25A AR-DR22-30A AR-DE22-15A AR-DE22-17A AR-DE22-20A AR-DE22-25A AR-DE22-30A	AR-DR311-25A AR-DR311-30A AR-DR311-35A AR-DR311-43A AR-DE311-25A AR-DE311-30A AR-DE311-35A AR-DE311-43A	AR-DR35-30A AR-DR35-40A AR-DR35-50A AR-DR35-60A AR-DR35-70A AR-DE35-30A AR-DE35-40A AR-DE35-50A AR-DE35-60A AR-DE35-70A
	Nominal Tons	5, 7.5, 10, 12.5, 15	15, 17.5, 20, 25, 30	25, 30, 35, 43	30, 40, 50, 60, 70
Airflow	Minimum (CFM)	800	900	3,125	3,750
	Maximum (CFM)	5750	9550	12,000	18,000
Cooling Components	Inverter Scroll	Optional	Optional	Optional	Optional
	Digital Scroll	Standard	Standard	Standard	Standard
	Modulating hot gas reheat	Standard	Standard	Standard	Standard
Indirect Gas Furnace	Minimum (MBH)	100	300	400	600
	Maximum (MBH)	300	500	800	1200
	Turndown	4:1 up to 16:1	4:1 up to 16:1	4:1 or 10:1	10:1
Electric Heat	Minimum (KW)	15	35	40	50
	Maximum (KW)	60	120	150	200
	SCR modulation	Standard	Standard	Standard	Standard
Hot Water Heat		Optional	Optional	Optional	Optional

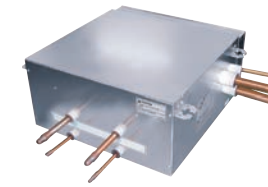
Accessories

LG Rooftop DOAS units are highly customizable with many accessories available to meet your application needs. To design an LG Rooftop DOAS unit and determine which accessory models are appropriate, use the LG CAPS (Computer-Aided Product Selection) software available through myLGHVAC.com.

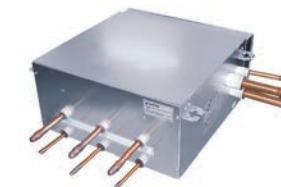
1. AR-DR unit types include cooling and heating. AR-DE unit types include cooling, heating, and an ERV wheel.
2. Voltages are selectable between 208, 230, or 460 volts (all 3ø)

HEAT RECOVERY UNIT

PRHR023A
PRHR033A
PRHR043A
PRHR063A
PRHR083A



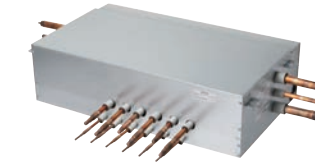
PRHR023A
(2-branch Unit)



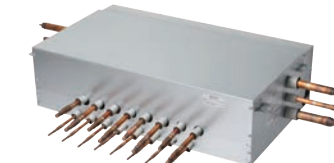
PRHR033A
(3-branch Unit)



PRHR043A
(4-branch Unit)



PRHR063A
(6-branch Unit)



PRHR083A
(8-branch Unit)

Features

- Max. 64 indoor units can be connected (Max. eight indoor units per branch)
- Easy installation with auto pipe detect
- Delivers maximum efficiency using the subcooling cycle within the HR Unit

Models Applied

- MULTI V™ 5 Heat Recovery
- MULTI V™ WATER IV Heat Recovery
- Multi V™ S Heat Recovery

Specifications

Specification		Unit	PRHR023A	PRHR033A	PRHR043A	PRHR063A	PRHR083A
Number of Indoor Unit Ports ²			2	3	4	6	8
Power Input (Cooling / Heating)		Watts	39.8 / 37.2	39.8 / 37.2	39.8 / 37.2	75.9 / 72.1	75.9 / 72.1
Max Port Capacity	Each Port	Btu/h	60,000	60,000	60,000	60,000	60,000
	Sum of Ports	Btu/h	120,000	180,000	230,000	230,000	230,000
Electrical	Power Supply	V/Hz/Ø	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1	208-230/60/1
	Rated Amps	A	0.06	0.06	0.06	0.09	0.09
Piping	Port Liquid Line	in	3/8	3/8	3/8	3/8	3/8
	Port Vapor Line	in	5/8	5/8	5/8	5/8	5/8
	System Liquid Line	in	3/8	1/2	5/8	5/8	5/8
	System Vapor Line High	in	3/4	7/8	7/8	7/8	7/8
	System Vapor Line Low	in	7/8	1 1/8	1 1/8	1 1/8	1 1/8
Sound Pressure Data	Cooling Mode	dB(A)	31	31	31	31	31
	Heating Mode	dB(A)	31	31	31	31	31
Weight	Simultaneous	dB(A)	38	38	38	38	38
	Net Unit Weight	lbs	33	37	40	60	68
Dimensions	Shipping Weight	lbs	46	50	53	75	82
	W x D x H	in	30-15/16 x 25-7/8 x 8-9/16	30-15/16 x 25-7/8 x 8-9/16	30-15/16 x 25-7/8 x 8-9/16	43-13/16 x 25-7/8 x 8-9/16	43-13/16 x 25-7/8 x 8-9/16

1. All refrigerant pipes require insulation.
2. Each port can allow up to eight indoor units with a maximum capacity of 60k Btu/h per port.
3. All communication cable to be minimum 18 AWG, 2-conductor, twisted, stranded, shielded and must comply with applicable local and national code.
4. Kit components must be kept dry and free of debris before installation.
5. Must follow installation instructions in the applicable LG installation manual.
6. Power wiring cable size must comply with the applicable local and national code.
7. This unit comes with a dry nitrogen charge.
8. Due to our commitment to continued innovation, some specifications may be changed without notification.

ACCESSORIES

Outdoor Accessories



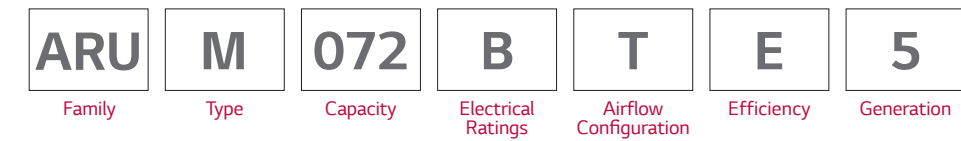
Type	Model	Description	Used with
Air Guide	ZAGDKA51A	Air Guide	Multi V 5 (6 Ton Chassis)
	ZAGDKA52A	Air Guide	Multi V 5 (8 to 20 Ton Chassis)
Hail Guard	ZHGDKA51A	Hail Guards Kit	Multi V 5 (6 Ton Chassis)
	ZHGDKA52A	Hail Guards Kit	Multi V 5 (8 to 20 Ton Chassis)
Low Ambient Baffle Kit	ZLABKA51A	Low Ambient Baffle Kit (requires PRVC2)	Multi V 5 (6 Ton Chassis)
	ZLABKA52A	Low Ambient Baffle Kit (requires PRVC2)	Multi V 5 (8 to 20 Ton Chassis)
Wind Baffle	ZLABGP04A	Low Ambient Baffle Kit (two required per unit)	Multi V 5
Variable Water Flow Control Kit	PWFCKN000	Variable Water Flow Control Kit for Multi V Water IV	Multi V Water IV
Low Ambient Control Kit	PRVC2	Low Ambient Control Kit (supports cooling down to -9°F)	Multi V 5
Cool/Heat Selector	PRDSBM	Cool/Heat Mode selector for Multi V systems	Multi V 5, Multi V S, Multi V Water IV

Type	Model	Description	Used with
Base Pan Heater	ZPLT1A51A	Base Pan Heater (208/230V)	Multi V 5 (6 Ton Chassis)
	ZPLT1A52A	Base Pan Heater (208/230V)	Multi V 5 (8 to 20 Ton Chassis)
	ZPLT2A51A	Base Pan Heater (460V)	Multi V 5 (6 Ton Chassis)
	ZPLT2A52A	Base Pan Heater (460V)	Multi V 5 (8 to 20 Ton Chassis)

UNIT NOMENCLATURE

Outdoor Units and Heat Recovery Units

Outdoor Units (ODU)



Family **ARU** Multi V™ Outdoor Unit (Refrigerant R410A)

Type **M** Combination (Heat Pump or Heat Recovery)

Capacity (cooling capacity in Mlbh)	072	72	241	240	408	408
	096	96	264	264	432	432
	121	121	288	288	456	456
	144	144	312	312	480	480
	168	168	336	336	504	504
	192	192	360	360		
	216	216	384	384		

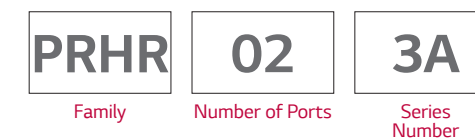
Electrical Ratings **B** 208–230V/60Hz/3Ph
D 460V/60Hz/3Ph

Airflow Configuration **T** Top Discharge

Efficiency **E** High Efficiency

Generation **5** Fifth

Heat Recovery Units (HRU)



Family **PRHR** Multi V™ Heat Recovery (HR) unit (Refrigerant R410A)

Number of Ports	02	Two Ports	06	Six Ports
	03	Three Ports	08	Eight Ports
	04	Four Ports		

Series Number **3A** Series Number

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