Cooling Mode: Heating (`F WB) -22 Nominal Capacity (Btu/h) 430,500 Synchronous Cooling Based (`F DB) 14 - Heating Mode: Nominal Capacity (Btu/h) 486,000 Synchronous Cooling Based (`F WB) 14 - Nominal Capacity (Btu/h) 486,000 Synchronous Cooling Based (`F WB) 14 - Mominal Capacity (Btu/h) 486,000 Synchronous Cooling Based (`F WB) 14 - Mominal Capacity (Btu/h) 486,000 Synchronous Cooling Based (`F WB) 14 - Mominal Capacity (soutside the scope of AHR) Standard 1230 and based on the following conditions: Max Number of Indoor Units ³ Sound Pressure* dB(A) Refrigerant Type Refrigerant Control Max Number of Indoor Units ³ Sound Pressure* dB(A) Power Supply (V/Hz/Ø) 575/60/3 575/60/3 575/60/3 S75/60/3 S75/60/3 Sound Pressure* dB(A) Net Unit Weight (a) + (b) + (c) (lbs) 527 + 52	Job Name/Location:					Tag #:		
Architect: GC: Engr: Mech: Rep: (monormation of the second of the se	Date:		For: 🔳 F	ile 🔳 I	Resubmit			
And under state Mech: Reg: () <td>PO No.:</td> <td></td> <td>- A</td> <td>opproval 🔳 (</td> <td>Other</td> <td></td> <td></td>	PO No.:		- A	opproval 🔳 (Other			
ARE Protest Managed ARUM432CTES (a) ARUM121CTES Multi V"S 575V (b) ARUM121CTES 36.0 Toon Outdoor Unit for Heat Pump and Heat Recovery (c) ARUM192CTES Performance: (c) ARUM192CTES Cooling Mode: (c) ARUM192CTES Nominal Capacity (Btu/h) 430,500 Power Input" (WW) 30.72 Heating Mode: (c) ARUM192CTES Nominal Capacity (Btu/h) 436,000 Power Input" (KW) 35.50 Refrigerant Control Refrigerant Control Nominal Capacity (Btu/h) 484,000 Power Supply (V/Hz/g) 575/60/3 575/60/3 Compressor A (A) 10.7 17.3 Compressor B (A) - - ARC Marg (Into ² (In, OD) 3/2 Braze 5/8 Braze Vapor Line Law? (In, OD) 3/2 Braze 1-3/8 Braze Vapor Line Law? (In, OD) 1/2 Braze 1-3/8 Braze Vapor Line Law? (In, OD) 1/2 Braze 1-3/8 Braze Vapor Line Law? (In, OD) 1/2 Braze 1-3/8 Braze Vapor Line Law? (In, OD) 1/2 Braze 1-3/8 Braze Native	Architect:		GC:			8.G 8.G	€LG	
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36.0 Ton Outdoor Unit for Heat Pump and Heat Recovery (c) ARUM192CTES Performance: Cooling Mode:	Multi V™ 5 575V		(b) ARUN	、 <i>i</i>		LG		
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MCA (A) 18.4 18.4 18.4 35.7 Rated Amps (A) 15.7 15.7 32.0 Compressor A (A) 10.7 10.7 14.8 Compressor B (A) - - 12.2 Fan (A) 5.0 5.0 5.0 Piping: (a) ARUM121CTES (b) ARUM121CTES (c) ARUM192CTES Compressor Quantity Oil/Type Refrigerant Charge (Ibs) 23.2 23.2 30.9 I// Braze 1.1/8 Braze Liquid Line ² (in, OD) 1/2 Braze 1/2 Braze 5/8 Braze Type Prope Vapor Line High ² (in, OD) 1.4/8 Braze 1-1/8 Braze 1-1/8 Braze Type Motor/Drive Advanced Smart Load Control •Fault Detection and Diagnosis •Active Refrigerant Control •Fault Detection and Diagnosis •Active Refrigerant Control •Fault Detection and Diagnosis •Active Refrigerant Control •Variable Path Heat Exchanger •Sobcooling and Vapor Injection Control •Variable Path Heat Exchanger •Active Refrigerant Control •Sobcooling and Vapor Injection Control •Variable Path Heat Exchanger •Sobcooling and Vapor Injection Control •Variable Path Heat Exchanger •Sobcooling and Vapor Injection Control •Sobcooling and V	Power Supply (V/Hz/Ø)	575/60/3	575/60/3	575/60/3			554 + 554 + 709	
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Compressor A (A) 10.7 10.7 14.8 Compressor B (A) - - 12.2 Fan (A) 5.0 5.0 5.0 Piping: (a) ARUM121CTE5 (b) ARUM121CTE5 (c) ARUM192CTE5 Compressor Quantity Dil/Type PVE/FVC0 Refrigerant Charge (Ibs) 23.2 23.2 30.9 Liquid Line ² (in, OD) 1/2 Braze 1/2 Braze 5/8 Braze Vapor Line High ² (in, OD) 1/2 Braze 1/2 Braze 1-1/8 Braze 1-1/8 Braze 1-1/8 Braze Vapor Line Low ² (in, OD) 1-1/8 Braze 1-1/8 Braze 1-1/8 Braze 1-1/8 Braze Vapor Line Low ² (in, OD) 1-1/8 Braze 1-1/8 Braze 1-1/8 Braze 1-1/8 Braze PhiPEIOR (high pressure oil return) •Fault Detection and Diagnosis •Active Refrigerant Control -Subcooling and Vapor Injection 3. The combination ratio must be thereen 50-1306. Night Quiet Operation •Subcooling and Vapor Injection Communication action cable at event of the area test on the anamethodic cable at event on the submittal cable colarian diatocac cable at event on a colar combination rate at east on the submittal (i.e., a-b-c) do not regresent the installation order. Highes tolerance is 4-105. PhiPional Accessories: •Control •Conderad fact of t		_	-		ŀ	Heat Exchanger Coating	Black Coated Fin™	
Compressor B (A) - - 12.2 Fan (A) 5.0 5.0 5.0 Piping: (a) ARUM121CTES (b) ARUM122CTES Compressor Quantity Refrigerant Charge (lbs) 23.2 23.2 30.9 Liquid Line ² (in, OD) 1/2 Braze 1/2 Braze 5/8 Braze Vapor Line High ² (in, OD) 1/2 Braze 1-1/8 Braze 1-1/8 Braze Vapor Line Low ² (in, OD) 1-1/8 Braze 1-1/8 Braze 1-1/8 Braze Advanced Smart Load Control •Fault Detection and Diagnosis •Active Refrigerant Control •Variable Path Heat Excharger •MiPOR (high pressure oil return) •Variable Path Heat Excharger •Subcooling and Vapor Injection S. Communication cable between 00U and IDU(s) must be 2-conductor, 18 AWG, twist stranded, and sis stated O1 abose sae level, with 25 for fregingerant line per indoor un a of thevel difference between outport and indoor units. Al capactites are net with a combination ratio between 95-105%. ARCNB21 (frame connector Y-branch) •ARCNB31 (frame connector Y-branch) •ARCNB31 (frame connector Y-branch) •ARCNB31 (frame connector Y-branch) •The ordination of each of these units on the submittal (i.e., a-b-c) do not represent the install an order. Higher 4 applicable local an antional code. Calterninate at each frame. •The torine and the specifies and these on on .		_	-		c	Compressor:		
Fan (A) 5.0 5.0 5.0 5.0 Piping: (a) ARUM121CTES (b) ARUM121CTES (c) ARUM192CTES (a) ARUM121CTES (c) ARUM192CTES (b) ARUM121CTES (c) ARUM192CTES Refrigerant Charge (lbs) 23.2 23.2 30.9 (c) (l/Type PVE/FVCd Vapor Line High ² (in, OD) 1/2 Braze 1/2 Braze 5/8 Braze (c) ARUM121CTES		-	-	-	(Compressor Type	HSS DC Scroll	
Piping: (a) ARUM121CTES (b) ARUM121CTES (c) ARUM192CTES Refrigerant Charge (lbs) 23.2 23.2 30.9 Liquid Line ² (in, OD) 1/2 Braze 1/2 Braze 5/8 Braze Vapor Line High ² (in, OD) 3/4 Braze 1-1/8 Braze 1-1/8 Braze Heat Recovery Only 3/4 Braze 1-1/8 Braze 1-1/8 Braze Vapor Line Low ² (in, OD) 1-1/8 Braze 1-1/8 Braze 1-1/8 Braze Advanced Smart Load Control •Fault Detection and Diagnosis •Active Refrigerant Control Motes: •MiPOR (high pressure oil return) •Variable Path Heat Exchanger 1. For AHRI ratings, refer to the AHRI website http://www.ahridirectory.org. 2. For main pipe segment size, refer to the AHRI website http://www.ahridirectory.org. •Night Quiet Operation •Subcooling and Vapor Injection 3. The combination ratio must be between 50-130%. •MacNB21 (frame connector Y-branch) •Liquid Cooled Inverter Controller 6. Nominal data is rated 0 rabove sea level, with 35 th or efrigerant line per indoor un a 0 th level difference between 0000 and indoor unk. Al capacities are ent with a combination ratio between 95-105%. •ARCNB21 (frame connector Y-branch) •ARCNB21 (frame connector Y-branch) 8. The order of each of these units on the submittal (i.e., a-b-c) do not represent the intallatin order. Highest capacity unit is used as the Master,		5.0	5.0		(Compressor Quantity	4	
Refrigerant Charge (lbs) 2.3.2 23.2 30.9 Liquid Line ² (in, OD) 1/2 Braze 1/2 Braze 5/8 Braze Vapor Line High ² (in, OD) 3/4 Braze 1-1/8 Braze 1-1/8 Braze Heat Recovery Only 3/4 Braze 1-1/8 Braze 1-1/8 Braze Vapor Line Low ² (in, OD) 1-1/8 Braze 1-1/8 Braze 1-1/8 Braze Avanced Smart Load Control •Fault Detection and Diagnosis •Active Refrigerant Control •Fault Detection and Diagnosis •Intelligent Heating •Active Refrigerant Control •Fault Detection and Diagnosis •Active Refrigerant Control •MiPOR (high pressure oil return) •Variable Path Heat Exchanger •Subcooling and Vapor Injection Scommunication cable betwen 000 and IDU(s) must be 2-conductor, 18 AWG, twist stranded, and shielded. Ensure the communication cable shield is properly grounded to must comply with all aplicable local and national codes. •Nortes: •Liquid Cooled Inverter Controller •Liquid Cooled Inverter Controller •ARCNB31 (frame connector Y-branch) •Liquid Cooled Inverter Controller •Dowr wing cape is size wat comply with the applicable local and national code. Calterninate at each frame. •ARCNB31 (frame connector Y-branch) •The voltage total size must comply with the applicable local and national code. Calterninate at each frame. <tr< td=""><td>. ,</td><td></td><td>0.0</td><td>0.0</td><td>(</td><td>Oil/Type</td><td>PVE/FVC68D</td></tr<>	. ,		0.0	0.0	(Oil/Type	PVE/FVC68D	
Liquid Line ² (in, OD) 1/2 Braze 1/2 Braze 5/8 Braze Vapor Line High ² (in, OD) 3/4 Braze 3/4 Braze 1-1/8 Braze Heat Recovery Only Vapor Line Low ² (in, OD) 1-1/8 Braze 1-1/8 Braze 1-1/8 Braze Standard Features: Advanced Smart Load Control Intelligent Heating HiPOR (high pressure oil return) Smart Oil Control Night Quiet Operation Night Quiet Operation Night Quiet Operation ARCNB21 (frame connector Y-branch) ARCNB31 (frame connector Y-branch) ARCNB31 (frame connector Y-branch) Pptional Accessories:	(u)	ARUM121CTE5 (b)			F	an:		
Vapor Line High² (in, OD) 3/4 Braze 3/4 Braze 1-1/8 Braze Wapor Line Low² (in, OD) 1-1/8 Braze 1-1/8 Braze 1-1/8 Braze Standard Features: •Fault Detection and Diagnosis •Fault Detection and Diagnosis •Active Refrigerant Control •Advanced Smart Load Control •Fault Detection and Diagnosis •Active Refrigerant Control •Active Refrigerant Control •WiPOR (high pressure oil return) •Variable Path Heat Exchanger •Subcooling and Vapor Injection Control •Utiquid Cooled Inverter Controller •Night Quiet Operation •Liquid Cooled Inverter Controller •Liquid Cooled Inverter Controller •. •ARCNB31 (frame connector Y-branch) ARCNB31 (frame connector Y-branch) •. The voltage tolerance is +/ 10%. •. The voltage tolerance is +/ 10%. •Ditional Accessories: •. The voltage tolerance is +/ 10%. •. The voltage tolerance is +/ 10%. •. The voltage tolerance is +/ 10%.						<i>,</i> ,	Propeller	
Vapor Line Hight (III, GD) 5/4 blaze 5/4 blaze 1-1/8 blaze Heat Recovery Only Air Flow Rate (a) + (b) + (c) (CFM) 33, Air Flow Rate (a) + (b) + (c) (CFM) 33, Advanced Smart Load Control •Fault Detection and Diagnosis •Advanced Smart Load Control •Fault Detection and Diagnosis •Active Refrigerant Control •Active Refrigerant Control •HiPOR (high pressure oil return) •Variable Path Heat Exchanger •Smart Oil Control •Subcooling and Vapor Injection •Night Quiet Operation Control •Liquid Cooled Inverter Controller •Liquid Cooled Inverter Controller •ARCNB21 (frame connector Y-branch) •Liquid Cooled Inverter Controller •Dritonal Accessories: •The voltage tolerance is +/-10%. •Ditional Accessories: •The voltage tolerance is +/-10%. •Ditional Accessories: •The voltage tolerance is +/-10%. •The voltage tolerance is +/-10%. •The voltage tolerance is +/-10%.	1	•		5/8 Braze			6 h. Controllod (Direct	
Standard Features: Advanced Smart Load Control Fault Detection and Diagnosis Active Refrigerant Control Variable Path Heat Exchanger Subcooling and Vapor Injection Night Quiet Operation Control Liquid Cooled Inverter Controller Subcooling and vapor Injection Nomication cable between 0DU and iDU(s) must be 2-conductor, 18 AWG, twist stranded, and shielded. Ensure the communication cable shield is properly grounded to Master ODU chassis only. Do not ground the communication cable at any other point. Numust comply with all applicable local and national codes. Nominal data is rated 0 ft above sea level, with 25 ft of refrigerant line per indoor units. All capacities are net with a combination ratio between 95-105%. Power wiring cable size must comply with the applicable local and national code. Calterminate at each frame. The voltage tolerance is t/- 10%. The voltage tolerance is t/- 10%. The voltage tolerance is to the submittal (i.e., a+b+c) do not represent the installation order. Highest capacity unit is used as the Master, followed by the next smaller size as Slave 1 and so on. 		3/4 Braze	3/4 Braze	1-1/8 Braze		.	33,900	
Standard Features: 2. For main pipe segment size, refer to the LATS Multi V tree diagram. Advanced Smart Load Control •Fault Detection and Diagnosis •Intelligent Heating •Active Refrigerant Control •HiPOR (high pressure oil return) •Variable Path Heat Exchanger •Smart Oil Control •Subcooling and Vapor Injection •Night Quiet Operation Control •Liquid Cooled Inverter Controller 6. Nominal data is rated 0 ft above sea level, with 25 ft of refrigerant line per indoor units. •ARCNB21 (frame connector Y-branch) 8. The voltage tolerance is +/- 10%. •ARCNB31 (frame connector Y-branch) 8. The voltage tolerance is +/- 10%. •Dytional Accessories: 8. The voltage tolerance is +/- 10%. •Dytional Accessories: 9. The voltage tolerance is +/- 10%. •Dytional Accessories: 9. The voltage tolerance is +/- 10%.	Vapor Line Low ² (in, OD)	1-1/8 Braze	1-1/8 Braze	1-1/8 Braze	N	lotes:		
Air Guide - ZAGDKA52A (3 required)	 Advanced Smart Load Con Intelligent Heating HiPOR (high pressure oil resonance) Smart Oil Control Night Quiet Operation Required Accessories: ARCNB21 (frame connection) 	•Ac eturn) •Va •Su Co •Liq ctor Y-branch)	tive Refrigerant Co riable Path Heat E bcooling and Vapo ntrol	ontrol xchanger or Injection	2. 3. 4. 5. 5. 5. 6. 6. 6. 7. 7. 7. 10. 8. 9. 9. 9. 9. 9. 9.	 For main pipe segment size, refer to the LATS Multi V tree di The combination ratio must be between 50-130%. Sound Pressure levels are tested in an anechoic chamber un ombination of outdoor units. Communication cable between ODU and IDU(s) must be 2-c tranded, and shielded. Ensure the communication cable shiel faster ODU chassis only. Do not ground the communication c ust comply with all applicable local and national codes. Nominal data is rated 0 ft above sea level, with 25 ft of refri 0 ft level difference between outdoor and indoor units. All c ombination ratio between 95-105%. Power wiring cable size must comply with the applicable loce reminate at each frame. The voltage tolerance is +/- 10%. The order of each of these units on the submittal (i.e., a+b+n stallation order. Highest capacity unit is used as the Master, 	iagram. Ider ISO Standard 3745 for the conductor, 18 AWG, twisted, d is properly grounded to the cable at any other point. Wiring igerant line per indoor unit and capacities are net with a cal and national code. Cables c) do not represent the	
Hail Guard Kit - ZHGDKA52A (3 Required)	📕 Air Guide - ZAGDKA52A	(3 required)						

- Hail Guard Kit ZHGDKA52A (3 Required)
- Low Ambient Baffle Kit ZLABKA52A (3), Control Kit PRVC2 (1 per system)

**Cooling operating range can be extended to -13°F if the optional low ambient baffle kit and

low ambient control kit are installed. This is the range in which the unit can operate as continuous operation. LG Electronics Canada, Inc. 20 Norelco Drive, North York, ON M9L2X6/www.lgvrf.ca

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

Inverter

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US

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