Job Name/Location: **Tag No.:**

Date: **For:** ☐ File ☐ Resubmit ☐ Approval ☐ Other

PO No.:

Architect: **GC:**

Engr: **Mech:**

Rep:
(Company) (Project Manager)



ARUM432DTE5

Multi V™ 5 with LGRED° 460V ODU

36 Ton Triple Frame Heat Pump and Heat Recovery

(a) ARUM121DTE5
(b) ARUM121DTE5
(c) ARUM192DTE5

LG Life's Good

Performance:

Cooling Mode:

Nominal Capacity (Btu/h)	430,500
Power Input[1] (kW)	30.74

Heating Mode:

Nominal Capacity (Btu/h)	486,000
Power Input[1] (kW)	35.50

Rated capacity is certified under AHRI Standard 1230. Ratings are subject to change without notice. Current certified ratings are available at www.ahridirectory.org.

Electrical:

Frame	(a) ARUM121DTE5	(b) ARUM121DTE5	(c) ARUM192DTE5
Power Supply (V/Hz/Ø)[1]	460/60/3	460/60/3	460/60/3
MOP (A)	25	25	50
MCA (A)	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 (B)	-	-	12.2
Fan (A)	5.0	5.0	5.0

Piping:[2]

Frame	(a) ARUM121DTE5	(b) ARUM121DTE5	(c) ARUM192DTE5
Refrigerant Charge (lbs.)	23.2	23.2	30.9
Liquid (in., O.D.)	1/2 Braze	1/2 Braze	5/8 Braze
High Pressure Vapor (in, O.D.)	3/4 Braze	3/4 Braze	1-1/8 Braze
Low Pressure Vapor (in., O.D.)	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
- Fault Detection and Diagnosis
- Active Refrigerant Control
- Variable Heat Path Exchanger
- Subcooling and Vapor Injection Control
- Liquid Cooled Inverter Controller
- Advanced Comfort Cooling

Required Accessories:

☐ ARCNB31 (Frame Connector Y-branch, 3 pipe heat recovery)
☐ ARCNB21 (Frame Connector Y-branch, 3 pipe heat recovery)
☐ ARCNN31 (Frame Connector Y-branch, 2 pipe heat pump)
☐ ARCNN21 (Frame Connector Y-branch, 2 pipe heat pump)

Optional Accessories:

☐ Air Guide - ZAGDKA52A (3 required)
☐ Hail Guard Kit - ZHGDKA52A (3 required)
☐ Low Ambient Baffle Kit - ZLABKA52A (3), Control Kit - PRVC2 (1 per system)
☐ Base Pan Heater - ZPLT2A52A

**Cooling range with the Low Ambient Baffle Kit (sold separately) is -9.9°F to +122°F and is achieved only when all indoor units are operating in cooling mode. Does not impact heat recovery system synchronous operating range.

Operating Range:

Cooling (°F DB)**	5 - 122
Heating (°F WB)	-22 - 61
Synchronous	
Cooling Based (°F DB)	14 - 81
Heating Based (°F WB)	14 - 61

Unit Data:

Refrigerant Type			R410A
Refrigerant Control			EEV
Max. Number of Indoor Units[3]			64
Sound Pressure[4] dB(A)			66
Weight			
Frame	(a) ARUM121DTE5	(b) ARUM121DTE5	(c) ARUM192DTE5
Net (lbs.)	507	507	650
Shipping (lbs.)	534	534	688
Communication Cable (No x AWG)[5]			2 x 18
Heat Exchanger Coating			Black Fin II

Compressor:

Type	HSS DC Scroll
Quantity	4
Oil / Type	PVE / FVC68D

Fan:

Type	Propeller
Quantity (a) + (b) + (c)	6
Motor Drive	Brushless Digitally Controlled Direct
Total Air Flow Rate (a) + (b) + (c) (rated/max, CFM)	27,100 / 33,900

Notes:

1. Power wiring cable size must comply with the applicable local and national codes. Cables terminate at each frame.
2. For main pipe segment size, refer to the LATS Multi V tree diagram.
3. The combination ratio must be between 50-130%.
4. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745 for the combination of outdoor units.
5. Communication cable between ODU and IDUs must be 2-conductor, 18 AWG, twisted, stranded, and shielded. Ensure the communication cable shield is properly grounded to the Main ODU chassis only. Do not ground the communication cable at any other point. Wiring must comply with all applicable local and national codes.
6. Acceptable operating voltage: 414V - 528V. SCCR rating: 65 kA RMS symmetrical 460V maximum.
7. The order of these units on the submittal (i.e., a+b+c) does not represent the installation order. Highest capacity unit is used as the Main, followed by the next smaller size as Sub 1, and so on.
8. Fan ESP (in wg) selectable range is 0.16 to 0.32.

LGRED° Powerful Heat Technology

C SA US Inverter

AHRI CERTIFIED™ www.ahridirectory.org
Variable Refrigerant Flow (VRF) Multi-Split AC and HP AHRI Standard 1230

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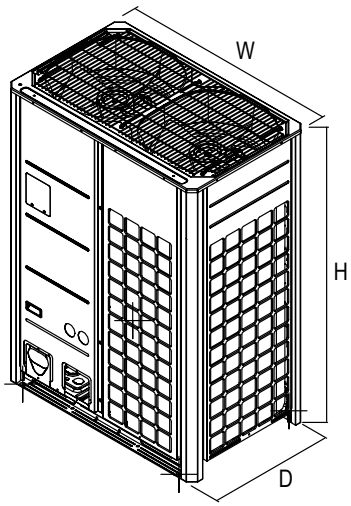
36 Ton Triple Frame Heat Pump and Heat Recovery

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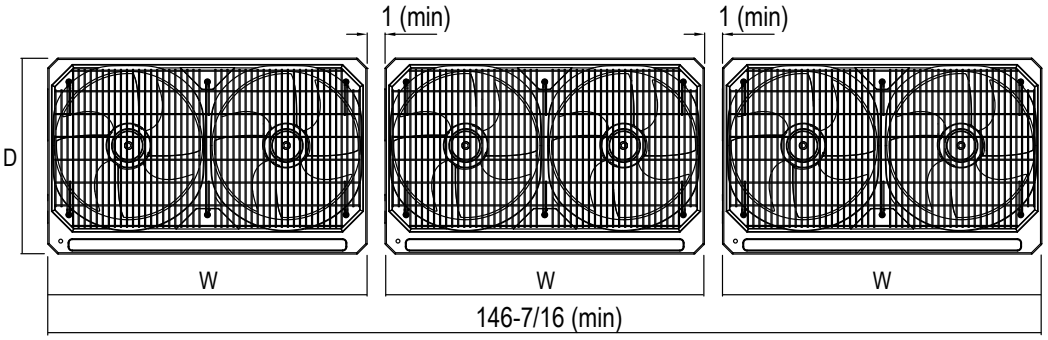
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Date: _____

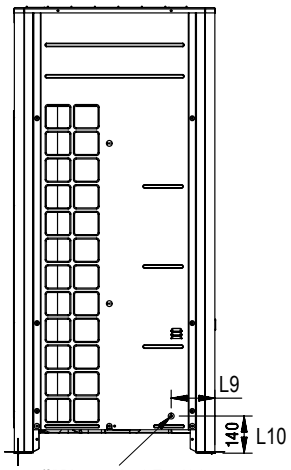
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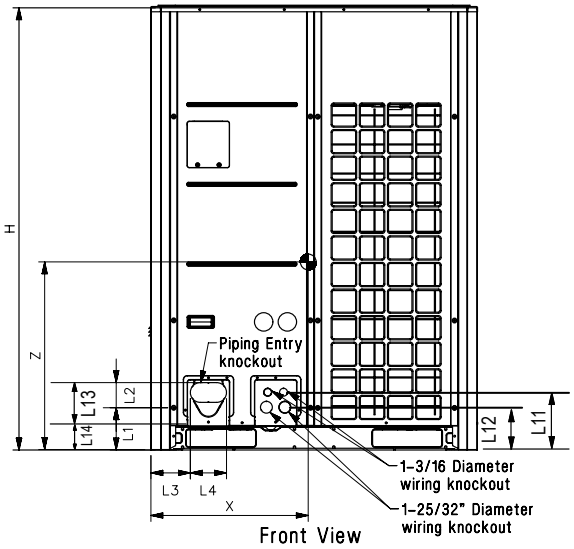
Typical Triple Frame Configuration



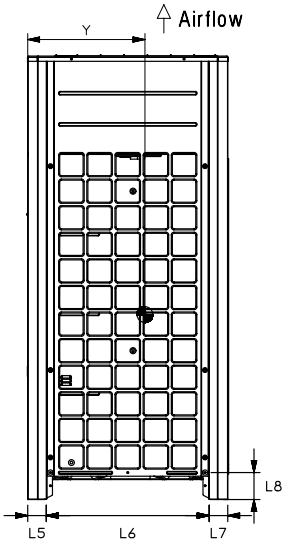
Note: Please refer to multi-frame placement information and piping rules in the Multi V 5 Engineering Manual and the Multi V 5 Installation Manual. Minimum spacing between frames is 1 inch.



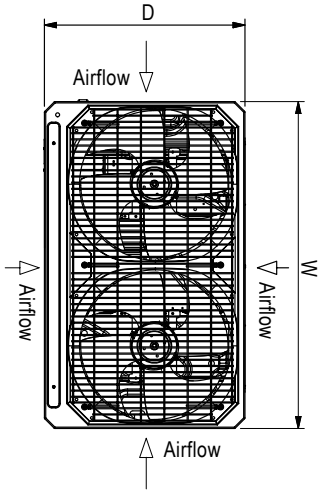
Left Side View



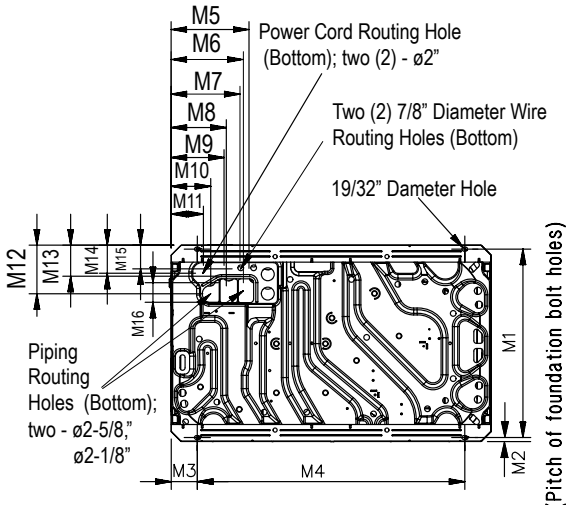
Front View



Right Side View



Top View



Bottom Mounting Holes

M1	28–25/32"
M2	5/8"
M3	3–15/16"
M4	40–15/16"
M5	11 – 15/16"
M6	11 – 1/16"
M7	10 – 1/2"
M8	8 – 7/16"
M9	8 – 1/8"
M10	6 – 1/16"
M11	4 – 15/16"
M12	7 – 1/2"
M13	4 – 13/16"
M14	4 – 5/16"
M15	3 – 5/8"
M16	3"

W	48–13/16"
H	66–17/32"
D	29–29/32"
L1	6–5/16"
L2	3–3/4"
L3	5–29/32"
L4	5–13/32"
L5	2–25/32"
L6	24–9/32"
L7	2–25/32"
L8	4–1/32"
L9	6 – 1/2"
L10	5 – 9/16"
L11	8 – 5/8"
L12	6 – 7/16"
L13	9 – 15/16"
L14	3 – 5/8"

Center of Gravity

X	23–7/32"
Y	15–5/8"
Z	25–9/16"

All dimensions have a tolerance of ± 0.25 in.
[Unit: inch]

= Center of Gravity

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AHRI Data:

Reference Number	Indoor Type	Cooling Capacity (95°F)	EER (95°F)	IEER	SCHE	High Heating Capacity (47°F)	High COP (47°F)	Low Heating Capacity (17°F)	Low COP (17°F)
205281486	Ducted Indoor Units	410,000	8.7	16.2	17.10	460,000	3.22	298,000	2.17
202524569	Non-Ducted Indoor Units	410,000	8.0	16.0	19.35	460,000	3.28	298,000	2.32

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