

Job Name/Location:

Tag No.:

Date:

For: File Resubmit

PO No.:

Approval Other

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

**KSSPA421A100-C1**

R32 Single-Zone System with LGRED® - A-Coil + Gas Furnace (80%)

A-Coil Unit - LKMM42C1, Outdoor Unit (ODU) - KUSXA422A, Gas Furnace - LNAEA100C1

**Performance:****Cooling:**

|                                          |                      |
|------------------------------------------|----------------------|
| Cooling Capacity (Min~Rated~Max) (Btu/h) | 16,400~41,000~43,000 |
| SEER2                                    | 18.2                 |
| EER2                                     | 11.70                |

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

**Heating:**

|                                          |                      |
|------------------------------------------|----------------------|
| Heating Capacity (Min~Rated~Max) (Btu/h) | 16,700~44,000~48,000 |
| HSPF2                                    | 9.8                  |
| Max. Heating @ Indoor 70°F DB            | 45,400               |
| Outdoor 17°F WB                          | 42,000               |
| Outdoor 5°F WB                           | 37,400               |
| Outdoor -4°F WB                          |                      |

HSPF - Heating Seasonal Performance Factor

**Outdoor Unit Electrical:**

|                                                |                 |
|------------------------------------------------|-----------------|
| Power Supply (V/Hz/Ø)                          | 208-230/60/1    |
| MOP (A)                                        | 40              |
| MCA (A)                                        | 32              |
| Cooling Rated Amps (A)                         | 15.1            |
| Heating Rated Amps (A)                         | 16.7            |
| Compressor (A)                                 | 22.0            |
| Fan Motor (ODU) (A)                            | 1.6 + 1.6       |
| Cooling Power Input (Min~Rated~Max @95°F) (kW) | 1.26~3.504~3.81 |
| Heating Power Input (Min~Rated~Max @47°F) (kW) | 1.23~3.500~4.55 |

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

**Outdoor Unit Piping:**

|                                            |            |
|--------------------------------------------|------------|
| Liquid (in., O.D.) <sup>2</sup>            | 3/8 Flare  |
| Vapor (in., O.D.) <sup>2</sup>             | 5/8 Flare  |
| Additional Refrigerant (oz./ft.)           | 0.43       |
| Min. / Max. Pipe Length (ft.) <sup>3</sup> | 16.4 / 246 |
| Piping Length (no add'l refrigerant, ft.)  | 24.6       |
| Max. Elevation (ft.)                       | 98.4       |

**Outdoor Unit Operating Range:**

|                 |           |
|-----------------|-----------|
| Cooling (°F DB) | 5 ~ 118   |
| Heating (°F WB) | -13 ~ +64 |

**Outdoor Unit Features:**

- Inverter (Variable Speed) Compressor
- Built-in Communication Kit

**A-Coil Features:**

- Aluminum Coil
- Fully Insulated Cabinet
- High Efficiency "A" Coil
- Built-in plenum flanges for fast and safe installation
- Multi-Position Installation: Vertical, Downflow, or Horizontal
- Vertical and Horizontal Drain Pans
- Left and Right Drain Connections
- Factory installed TXV's with bolt on connections
- Factory installed Refrigerant Detection sensor

**Gas Furnace Features:**

- Aluminized steel tubular heat exchanger
- Hot-surface ignition
- Multi-speed direct-drive blower
- Designed for multi-position installation

**Optional Accessories:**

- LG Airzone Aidoo Pro Wi-Fi Controller - AZAI6WSPLGE
- Low Ambient Wind Baffle (Cooling operation to -4°F) - ZLABGP04B

**Outdoor Unit Data:**

|                                                            |                         |
|------------------------------------------------------------|-------------------------|
| Compressor Type x Qty.                                     | R1 Scroll               |
| Refrigerant Type                                           | R32                     |
| Refrigerant Control                                        | EEV - ODU, TXV - A-Coil |
| Pre-Charge + Additional Charge for A-Coil (lbs.)           | 7.50 + 0.88             |
| Sound Pressure (Cooling / Heating) (±1 dB[A]) <sup>4</sup> | 54 / 56                 |
| Net / Shipping Weight (lbs.)                               | 213.4 / 232.4           |

**Fan:**

|                                                   |                                       |
|---------------------------------------------------|---------------------------------------|
| ODU Fan Type x Qty.                               | Axial x 2                             |
| ODU Fan Speeds (Fan/Cool/Heat)                    | 4 / 5 / 5                             |
| ODU Motor/Drive                                   | Brushless Digitally Controlled/Direct |
| ODU Air Flow Rate (CFM)                           | 1,942 x 2                             |
| Air Flow Range through A-Coil (CFM) (Min. ~ Max.) | 1,050~1,400                           |
| Corresponding ESP Range (in. w.g.) (Min. ~ Max.)  | 0.1~0.8                               |
| Dehumidification (pts./hr.)                       | 7.9                                   |

**A-Coil Unit Data:**

|                                        |              |
|----------------------------------------|--------------|
| Nominal Capacity (Btu/h)               | 41,000       |
| Type                                   | 21 inch      |
| Coil Material                          | Aluminum     |
| Case Width x Height x Depth (in.)      | 21 x 30 x 21 |
| Net / Shipping Weight (lbs.)           | 63 / 70      |
| Liquid Piping (in., O.D.) <sup>2</sup> | 3/8 Braze    |
| Vapor Piping (in., O.D.) <sup>2</sup>  | 3/4 Braze    |

**Gas Furnace:**

|                                   |                 |
|-----------------------------------|-----------------|
| <b>Performance:</b>               |                 |
| Input (Btu/h) (Natural/Propane)   | 100,000/100,000 |
| Output (Btu/h) (Natural/Propane)  | 80,000/80,000   |
| Air Temperature Rise (°F)         | 30-60           |
| Design Max. Outlet Air Temp. (°F) | 160             |
| AFUE                              | 80              |

**Gas Furnace Data:**

|                                                  |                      |
|--------------------------------------------------|----------------------|
| Blower Type / Fan Speed No.                      | Sirocco/5            |
| Motor Type                                       | ECM                  |
| Airflow Range (CFM)                              | 1,001~1,733          |
| Ignition Type / No. of Burners                   | Automatic/6          |
| Min./Max. Inlet Gas Pressure (Natural, in. w.c.) | 5/10.5               |
| Min./Max. Inlet Gas Pressure (Propane, in. w.c.) | 11/13                |
| Case Width x Height x Depth (in.)                | 21 x 33-3/4 x 28-1/2 |
| Shipping Weight (lbs.)                           | 177                  |

**Gas Furnace Electrical:**

|                       |          |
|-----------------------|----------|
| Power Supply (V/Hz/Ø) | 115/60/1 |
| MOP (A)               | 20       |
| MCA (A)               | 14       |

AFUE - Annual Fuel Utilization Efficiency

Must follow installation instructions in the applicable LG installation manual.

**LGRED®**

**KSSPA421A100-C1**

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A-Coil Unit - LKMMMA42C1, Outdoor Unit (ODU) - KUSXA422A, Gas Furnace - LNAEA100C1



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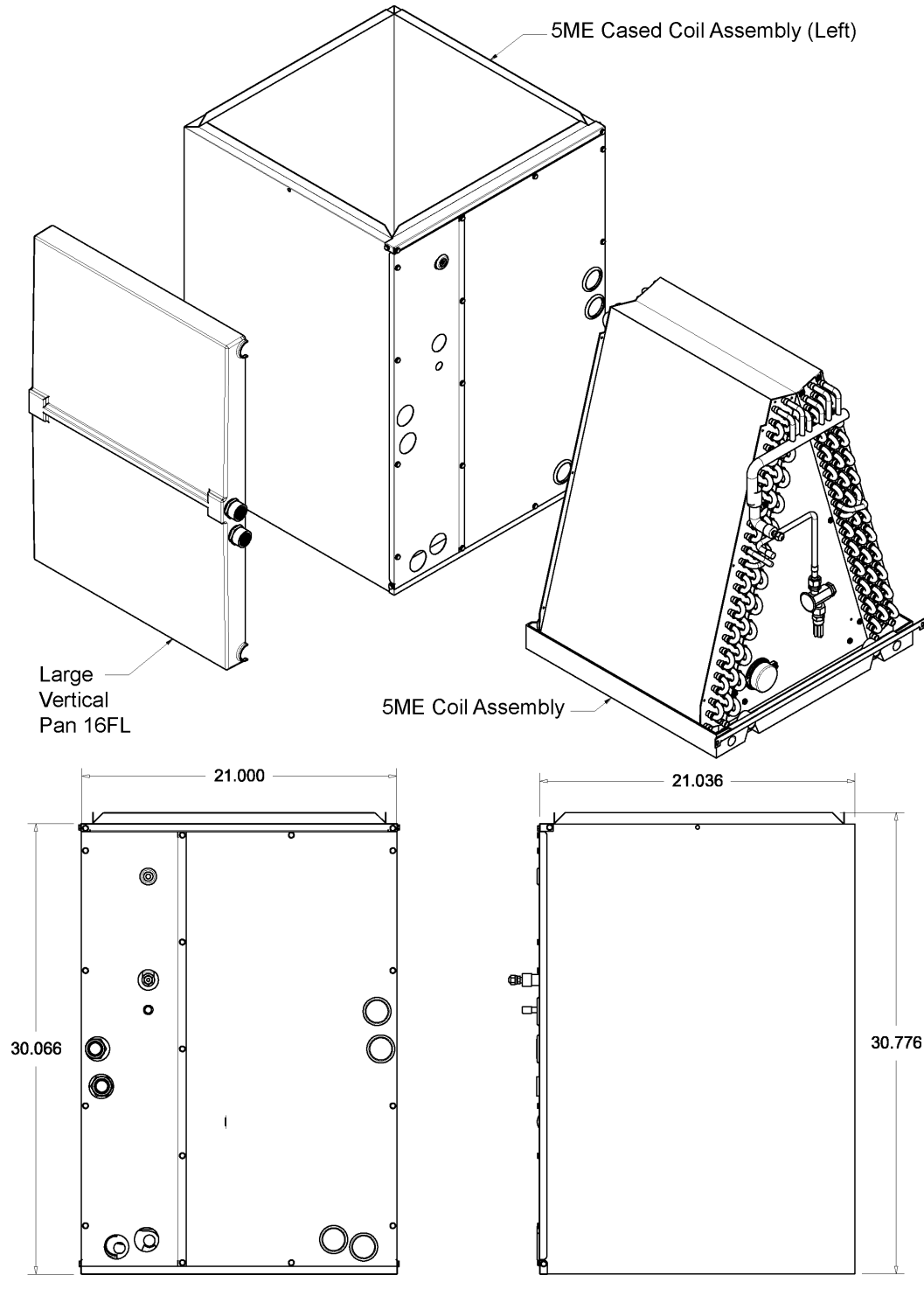
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**Notes:**

1. Acceptable operating voltage: 187V-253V.
2. Adapters for piping connections are shipped with the outdoor unit.
3. Piping lengths are equivalent.
4. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
5. All power supply wiring to the outdoor unit is field supplied, solid or stranded. The power wiring and the communication wiring from the outdoor unit to the third-party, field-supplied furnace is field supplied and must be stranded, shielded or unshielded (if shielded, it must be grounded to the chassis of the outdoor unit only). All wiring must comply with applicable local and national codes.

- a. Power Supply Wiring to Outdoor Unit (No. x AWG): 3 x 12 for 18k and 24k; 3 x 10 for 30k, 36k, 42k, and 48k.
- b. Power Supply Wiring to the third-party Furnace is to be specified by the manufacturer.
- c. Control Cable between the Outdoor Unit and the third-party Furnace (No. x AWG): 6 x 18.
- d. The 24V Control Power to the A-Coil is to be sourced from the third-party Furnace.
- e. The Control Cable between the third-party Furnace and the thermostat (No. x AWG): 6 x 18.
6. Nominal data is rated 0 ft. above sea level, with 25 ft. of refrigerant line and a 0 ft. level difference between outdoor and indoor units.
7. Must follow installation instructions in the applicable LG installation manual.

LKMMMA42C1, LKMMMA48C1, LKMMMA60C1

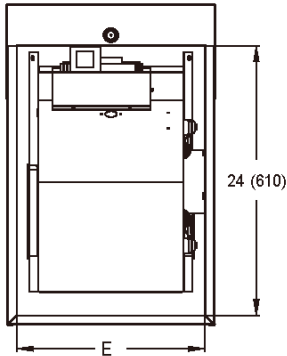
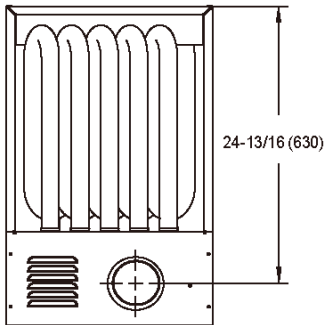
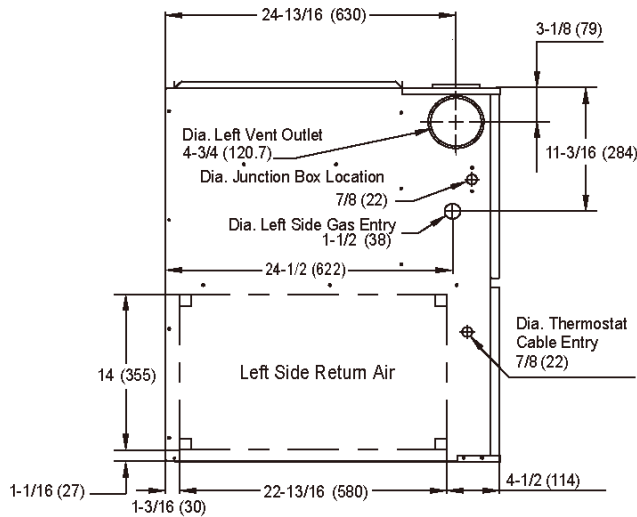
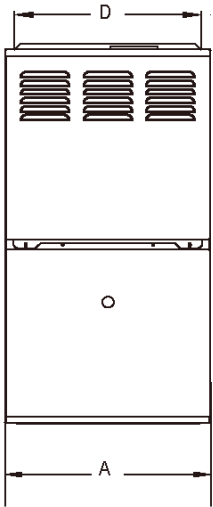
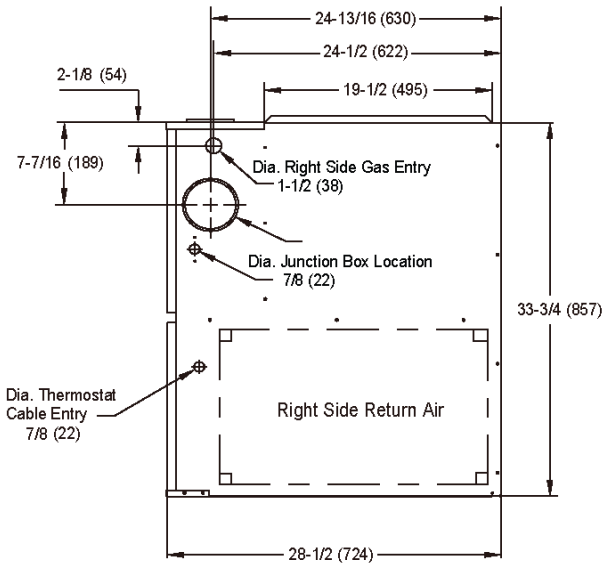


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Unit: Inches (mm)



| Furnace Size | A<br>Cabinet Width<br>(in. [mm]) | D<br>Supply Air Width<br>(in. [mm]) | E<br>Return Air Width<br>(in. [mm]) |
|--------------|----------------------------------|-------------------------------------|-------------------------------------|
| LNAEA040A1   | 14.5 (368)                       | 13 (330)                            | 15-57/32 (326)                      |
| LNAEA060B1   | 17.5 (446)                       | 16 (406)                            | 15-27/32 (402)                      |
| LNAEA080C1   | 21 (533)                         | 19.5 (495)                          | 19-13/32 (493)                      |
| LNAEA100C1   | 21 (533)                         | 19.5 (495)                          | 19-13/32 (493)                      |
| LNAEA120D1   | 24.5 (622)                       | 23 (584)                            | 22-27/32 (580)                      |

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