

Job Name/Location:

Tag No.:

Date:

For: File Resubmit
Approval Other

PO No.:

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

KSSSE481A100-C1

**R32 Single-Zone CV System-A-Coil+Gas
Furnace (96%) - A-Coil Unit-LKMMMA48C1,
ODU-KUSXE481A, Gas Furnace-LNAVE100C1**

General:

Nominal Capacity (Btu/h)	45,500
A-Coil Width (Inch)	21
Coil Material	Aluminum
Cooling Operating Range (°F DB)	14 to 118
Heating Operating Range (°F WB)	4 to 64
Gas Furnace Ignition Type	Automatic
Gas Furnace No. of Burners	5

Performance:

Gas Furnace Input (Natural) (Btu/h)	100,000
Gas Furnace Inlet Gas Pressure (Min.) (Natural, in. w.c.)	4.5
Gas Furnace Inlet Gas Pressure (Max.) (Natural, in. w.c.)	10.5
Gas Furnace Input (Propane) (Btu/h)	100,000
Gas Furnace Inlet Gas Pressure (Min.) (Propane, in. w.c.)	11
Gas Furnace Inlet Gas Pressure (Max.) (Propane, in. w.c.)	13
Gas Furnace Design Max. Outlet Air Temp. (°F)	165
Gas Furnace Output (Natural) (Btu/h)	95,000
Gas Furnace Output (Propane) (Btu/h)	95,000
SEER2	16
EER2	10
HSPF2	8.5
Gas Furnace Air Temperature Rise (°F)	35 - 65
Gas Furnace AFUE	96
Cooling Capacity (Min) (Btu/h)	18,200
Cooling Capacity (Rated) (Btu/h)	45,500
Cooling Capacity (Max) (Btu/h)	49,000
Heating Capacity (Min) (Btu/h)	20,200
Heating Capacity (Rated) (Btu/h)	48,000
Heating Capacity (Max) (Btu/h)	53,000
Max Heating @ Indoor 70° DB _ Outdoor 17° F WB (Btu/h)	45,000
Max Heating @ Indoor 70° DB _ Outdoor 5° F WB (Btu/h)	37,000

Electrical Characteristics:

ODU Power Supply (V,HZ,PH)	208-230/60/1
Cooling Power Input (Min) (kW)	1.45
Cooling Power Input (Rated) (kW)	4.55
Cooling Power Input (Max) (kW)	5
Heating Power Input (Min) (kW)	1.37
Heating Power Input (Rated) (kW)	4.26
Heating Power Input (Max) (kW)	5.05
Compressor (Motor LRA) (A)	22
Cooling Rated Amps (A)	19.6
Heating Rated Amps (A)	18.3
MCA (A)	30.7
MOP (A)	40
Gas Furnace MCA (A)	14
Gas Furnace MOP (A)	20
Gas Furnace Power Supply (V,HZ,PH)	115 / 60 / 1

**Refrigeration:**

A-Coil Liquid Line Connection Size (in., O.D.)	3/8 Braze
A-Coil Vapor Line Connection Size (in., O.D.)	3/4 Braze
ODU Liquid Line Connection Size (in., O.D.)	3/8 Flare
ODU Vapor Line Connection Size (in., O.D.)	3/4 Flare
Maximum Piping length (ft)	164
Max. Piping Length (No additional refrigerant Req.) (ft)	24.6
Factory Charge (ODU + A-Coil) (lbs.)	6.612 + 0
Additional Refrigerant Qty. (oz./ft.)	0.54
Compressor Quantity	1
Compressor Type	Twin Rotary

Fan:

Gas Furnace Fan Speed No.	5
Gas Furnace Motor Type	ECM
Gas Furnace Blower Type	Sirocco
ODU Fan Type	Axial
ODU Fan Quantity	2
ODU Fan Motor Output (W) x Qty	124 x 2
ODU Air Flow Rate (CFM)	1,942 x 2
Motor/Drive	Brushless Digitally Controlled/Direct
Air Flow Range through A-Coil (CFM) (Min. ~ Max.)	1,200 ~ 1,600
Corresponding ESP Range (in. w.g.) (Min. ~ Max.)	0.1 ~ 0.8
Dehumidification Rate (pts/hr)	8.06

Weight:

A-Coil Net / Shipping Weight (lbs.)	63 / 70
ODU Net / Shipping Weight (lbs.)	190.2 / 214.3
Gas Furnace Shipping Weight (lbs.)	191

Dimensions:

Dimensions A-Coil: Net / Shipping D (in.)	21 / 25
Dimensions A-Coil: Net / Shipping H (in.)	30 / 31
Dimensions A-Coil: Net / Shipping W (in.)	21 / 21-1/2
Dimensions ODU: Net / Shipping D (in.)	13 / 18-5/32
Dimensions ODU: Net / Shipping H (in.)	54-11/32 / 57-19/32
Dimensions ODU: Net / Shipping W (in.)	37-13/32 / 45-5/32
Gas Furnace Case Net D (in.)	28-1/2
Gas Furnace Case Net H (in.)	33-3/4
Gas Furnace Case Net W (in.)	21

Sound:

ODU Sound Pressure (Cool / Heat) ±1 dB(A)	54 / 56
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Note: Refer to the air pressure drop across the A-Coil at different CFM values in the Engineering Manuals for A-Coils / Gas Furnaces.

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

Outdoor Unit Features:

- Inverter (Variable Speed) Compressor

Optional Accessories:

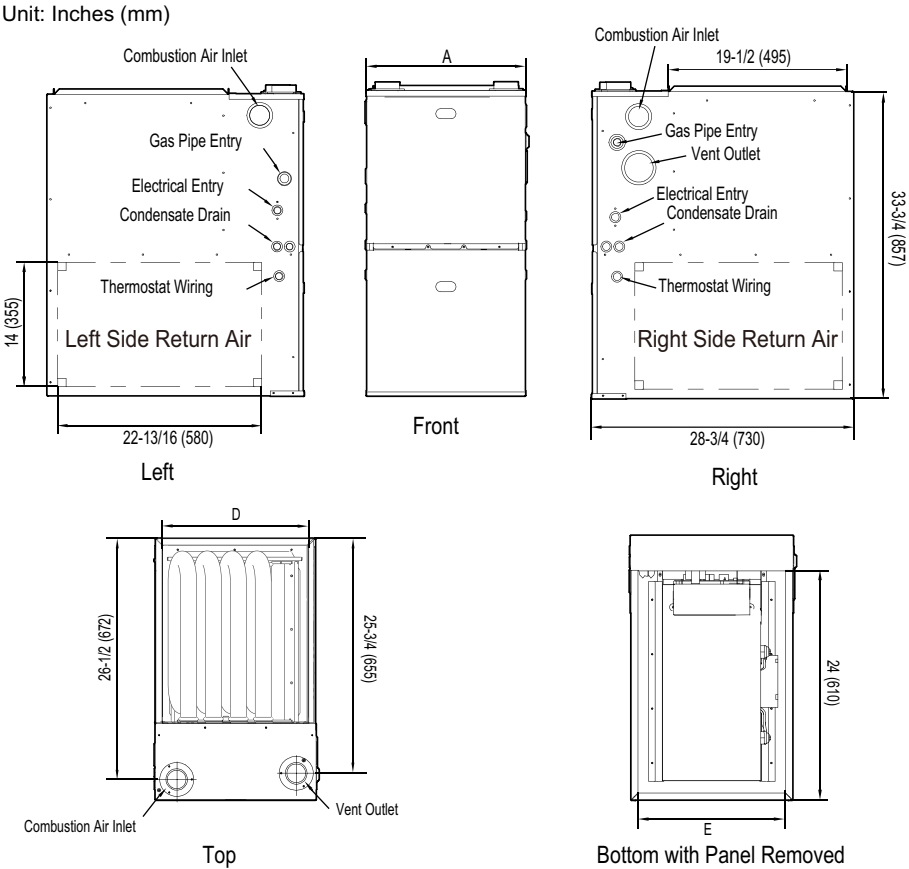
☐ Drain Pan Heater - PQSH1200

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 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, 24k, 30k, 36k; 3 x 10 for 42k, 48k, and 60k.
 - 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 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. AFUE - Annual Fuel Utilization Efficiency.
8. Must follow installation instructions in the applicable LG installation manual.

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Indoor Units - LKMMMA48C1 Outdoor Units - KUSXE481A
Indoor Units - LNAVE100C1

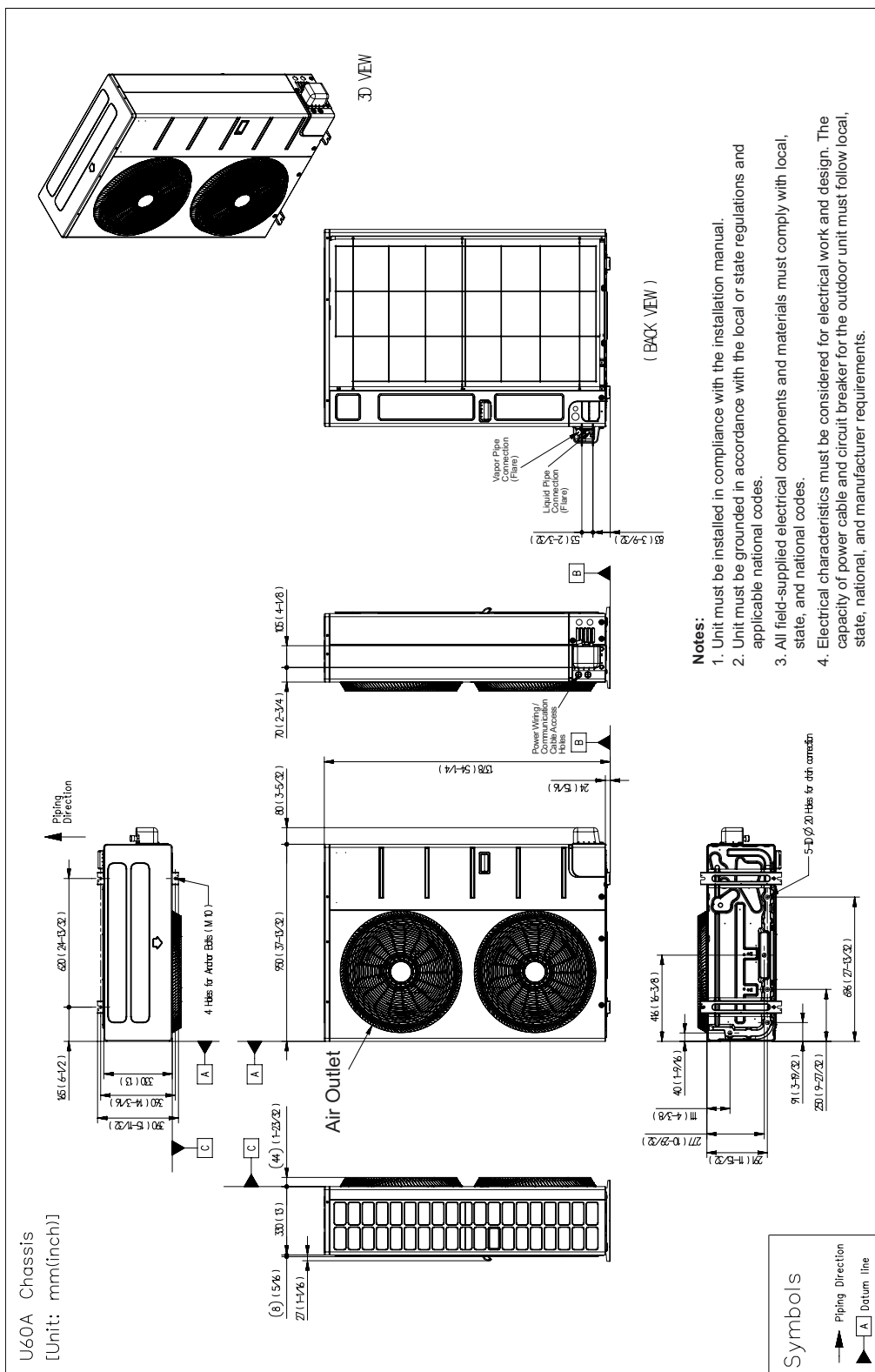
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Furnace Size	A Cabinet Width (in. [mm])	D Supply Air Width (in. [mm])	E Return Air Width (in. [mm])
LNAVE060B1	17.5 (445)	16 (406)	15-27/32 (402)
LNAVE080B1	17.5 (445)	16 (406)	15-27/32 (402)
LNAVE080C1	21 (533)	19.5 (495)	19-13/32 (493)
LNAVE100C1	21 (533)	19.5 (495)	19-13/32 (493)
LNAVE120D1	24.5 (622)	23 (584)	22-27/32 (580)



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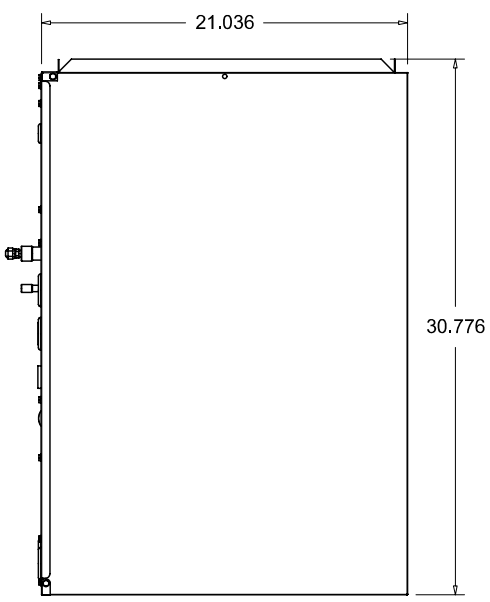
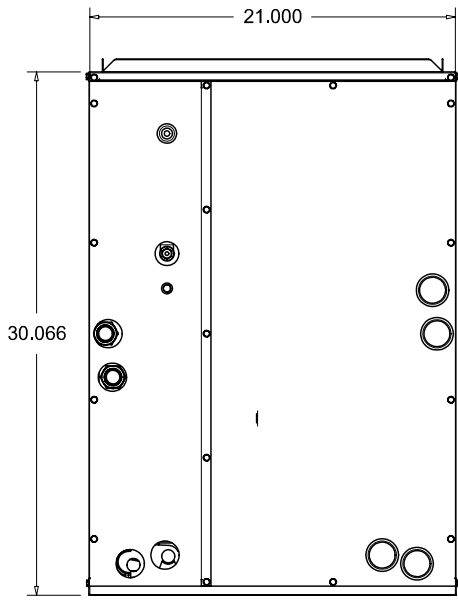
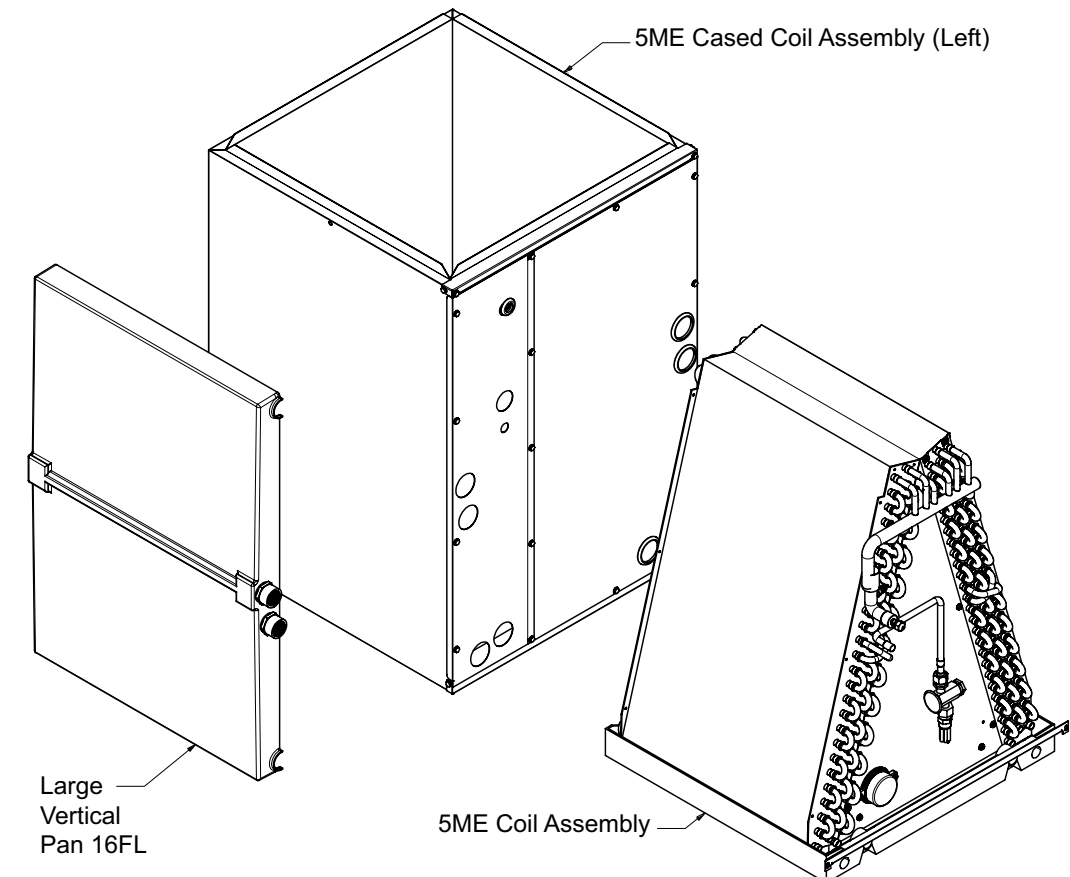


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Indoor Units - LNAVE100C1



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LKMMMA42C1, LKMMMA48C1, LKMMMA60C1



UNLESS OTHERWISE SPECIFIED:
ALL BENDS 90 DEGREES.
ANGLES +/- 2 DEGREES.
ALL HOLE SIZES +/- .010
ALL HOLE TO HOLE DIM. +/- .015
X.X +/- .125
X.XX +/- .063
X.XXX +/- .032
THICKNESS