

Job Name/Location:

Tag No.:

Date:

For:	File	Resubmit
	Approval	Other_____

PO No.:

Architect: \_\_\_\_\_ GC: \_\_\_\_\_

Engr: \_\_\_\_\_ Mech: \_\_\_\_\_

Rep: \_\_\_\_\_  
(Company) (Project Manager)

**KSSJA421A**  
Single Zone Mid Static Ducted LGRED°  
Outdoor Unit (ODU) - KUSXA421A, Indoor Unit (IDU) - KNSJB421A



**Performance:**

**Cooling:**

Cooling Capacity (Min~Rated~Max, Btu/h)	16,800 ~ 42,000 ~ 50,000
SEER2	18.80
EER2	12.60

SEER - Seasonal Energy Efficiency Ratio      EER - Energy Efficiency Ratio

**Heating:**

Heating Capacity (Min~Rated~Max, Btu/h)	18,000 ~ 48,000 ~ 57,000
HSPF2	9.40
Max. Heating @ Indoor 70°F DB (Btu/h)	
Outdoor 17°F WB	50,700
Outdoor 5°F WB	42,500
Outdoor -4°F WB	38,500
Outdoor -13°F WB	35,900

HSPF - Heating Seasonal Performance Factor      Heating Nominal Test Conditions:  
Cooling Nominal Test Conditions:      Indoor: 70°F DB / 60°F WB  
Indoor: 80°F DB / 67°F WB      Outdoor: 47°F DB / 43°F WB  
Outdoor: 95°F DB / 75°F WB

**Electrical:**

Power Supply (V/Hz/Ø)	208-230/60/1
MOP (A)	40
MCA (A)	32
Cooling / Heating Rated Amps (A)	27.7
Compressor (A)	22
Fan Motor (IDU + ODU) (A)	2.5 + (1.6 x 2)
Cooling Power Input (Min~Rated~Max, kW)	1.19 ~ 3.33 ~ 5.30
Heating Power Input (Min~Rated~Max, kW)	1.34 ~ 4.04 ~ 5.92
Locked Rotor Amps (A)	22

MOP - Maximum Overcurrent Protection      MCA - Minimum Circuit Ampacity

**Piping:**

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

**Features:**

- Inverter (Variable Speed Compressor)
- Internal Condensate Pump
- Jet Cool / Jet Heat
- Auto Restart
- R32 Leak Detection Sensor
- Auto Changeover
- Night Quiet Operation
- Optional Wi-Fi Control
- Drain Pan Heater
- Direct / Indirect Wind
- Swirl Wind
- Smart Mode
- Refresh Mode
- Optional Aux Heater Relay Kit

**Optional Accessories:**

- Auxiliary Heater Kit - PRARH1
- Vertical Installation Kit - ABDAMA0
- Wi-Fi Module - PWFMD200
- Single Port Shutoff Valve - PRHPZ010A
- ODU Wind Baffle - ZLABGP04B (x2)

**Controller Options:**

- MultiSITE™ CRC Controllers
- Simple Remote Controller
- Standard III Remote Controllers
- Remote Temperature Button Sensor
- Dry Contacts
- AC Smart 5 Central Controller
- LonWorks® Gateway
- MultiSITE Comm. Mgr.
- ACP 5 BACnet™ Gateway

For a complete list of available accessories, contact your LG representative.  
For continual product development, LG reserves the right to change specifications without notice.  
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**Operating Range:**

**Outdoor Unit:**

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

**Indoor Unit:**

Cooling (°F WB)	57 ~ 77
Heating (°F DB)	59 ~ 81

**System Data:**

Refrigerant Type	R32
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	7.5
ODU Sound Pressure (Cooling / Heating) (±1 dB[A]) <sup>3</sup>	54 / 56
IDU Sound Pressure (H/M/L) (±1 dB[A]) <sup>3</sup>	39 / 38 / 36
ODU Net / Shipping Weight (lbs.)	217.6 / 238.1
IDU Net / Shipping Weight (lbs.)	96.6 / 110.7
Heat Exchanger Coating	GoldFin™

**Fan:**

ODU Type	Propeller
IDU Type	Sirocco
Fan Speeds (Fan/Cool/Heat)	3 / 3 / 3
Quantity (ODU + IDU)	2 + 1
Motor/Drive	Brushless Digitally Controlled/Direct
Maximum ODU Air Volume (CFM)	1,942 x 2
IDU Air Flow (CFM Max. H/M/L)	1,412 / 1,200 / 988
Default ESP (in wg)	0.24
Minimum ESP/Fan Setting Value <sup>4</sup>	0.16 / 74
Maximum ESP/Fan Setting Value <sup>4</sup>	0.59 / 116
Dehumidification (pts./hr.)	7.9

**Notes:**

1. Acceptable operating voltage: 187V-253V.
2. Piping lengths are equivalent.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. Maximum static pressure may result in reduced airflow (CFM).
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 indoor unit 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 IDU: (No. x AWG): 3 x 12 for 9k, 12k, 18k, and 24k; 3 x 10 for 30k, 36k, 42k, and 48k.
  - b. Power Wiring and Communication Wiring from Outdoor Unit to Indoor Unit: (No. x AWG) 3 x 14 / 2 x 18.
6. See Engineering Manual for sensible and latent capacities.
7. Power wiring cable size must comply with the applicable local and national code.
8. The indoor unit comes with a dry helium charge.
9. This data is rated 0 ft. above sea level, with 24.6 ft. of refrigerant line and a 0 ft. level difference between outdoor and indoor units.
10. Must follow installation instructions in the applicable LG installation manual.
11. If the optional low ambient wind baffle is used, one wind baffle is required for each ODU fan.

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Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR® criteria. Ask your contractor for details or visit www.energystar.gov. (ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.)



# KSSJA421A

Single Zone Mid Static Ducted LGRED°

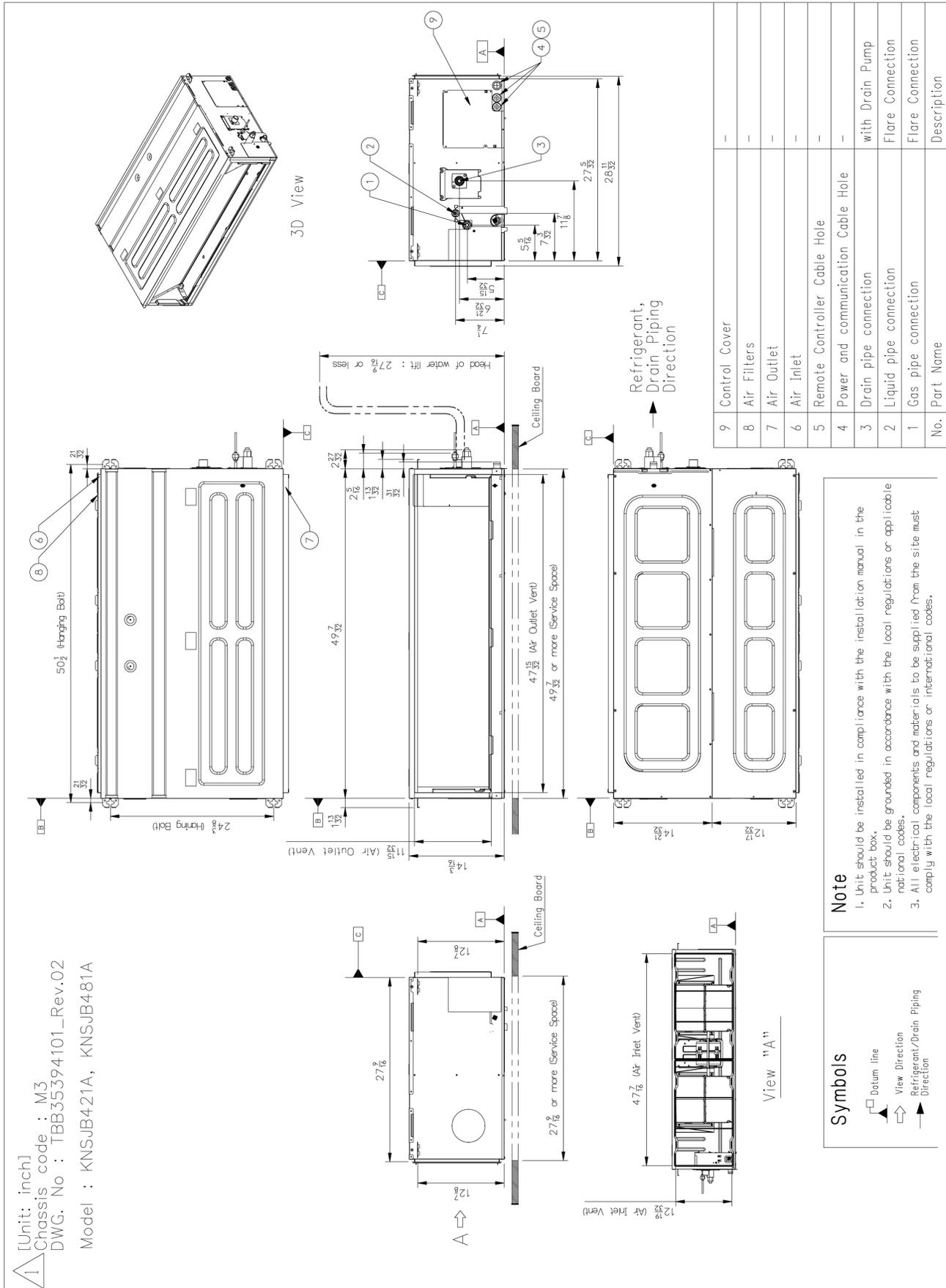
Outdoor Unit (ODU) - KUSXA421A, Indoor Unit (IDU) - KNSJB421A



Tag No.: \_\_\_\_\_

Date: \_\_\_\_\_

PO No.: \_\_\_\_\_



1 [Unit: inch]  
 Chassis code : M3  
 DWG. No : TBB35394101\_Rev.02  
 Model : KNSJB421A, KNSJB481A

No.	Part Name	Description
9	Control Cover	-
8	Air Filters	-
7	Air Outlet	-
6	Air Inlet	-
5	Remote Controller Cable Hole	-
4	Power and communication Cable Hole	with Drain Pump
3	Drain pipe connection	Flare Connection
2	Liquid pipe connection	Flare Connection
1	Gas pipe connection	Flare Connection

**Note**

- Unit should be installed in compliance with the installation manual in the product box.
- Unit should be grounded in accordance with the local regulations or applicable national codes.
- All electrical components and materials to be supplied from the site must comply with the local regulations or international codes.

**Symbols**

- Datum line
- ↔ View Direction
- ↔ Refrigerant/Drain Piping Direction