Job Name/Location: Tag No.:

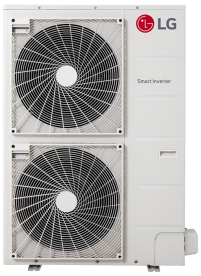
Date: For: ☐ File ☐ Resubmit ☐ Approval ☐ Other

PO No.:

Architect: GC:

Engr: Mech:

Rep:
(Company) (Project Manager)



KSSJB421A

Single Zone Mid Static Ducted

Outdoor Unit (ODU) - KUSXB421A, Indoor Unit (IDU) - KNSJB421A

Performance:

Cooling:

Cooling Capacity (Min~Rated~Max, Btu/h)	16,800 ~ 42,000 ~ 48,700
SEER2	18.30
EER2	12.00

SEER - Seasonal Energy Efficiency Ratio EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max, Btu/h)	18.800 ~ 48.000 ~ 49.800
HSPF2	9.00
Max. Heating @ Indoor 70°F DB (Btu/h)	
Outdoor 17°F WB	41500
Outdoor 5°F WB	39000
Outdoor -4°F WB	34900
Outdoor -13°F WB	N/A

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

Heating Nominal Test Conditions:
Indoor: 70°F DB / 60°F WB
Outdoor: 47°F DB / 43°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)	1.26 ~ 3.50 ~ 5.60
Heating Power Input (Min~Rated~Max, kW)	1.27 ~ 3.74 ~ 5.05
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.)[2]	16.4 / 246
Piping Length (no add'l refrig., ft.)	24.6
Max. Elevation (ft.)	98.4

Features:

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

Optional Accessories:

☐ PI-485 - PMNFP14A1
☐ Auxillary Heater Kit - PRARH1
☐ Wi-Fi Module - PWFMDD200
☐ Single Port Shutoff Valve - PRHPZ010A
☐ Drain Pan Heater - PQSH1200
☐ Low Ambient Wind Baffle (Cooling operation to -4°F) - ZLABGP04A
☐ Filter Box - ZFBXM301A

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.

Operating Range:

Outdoor Unit:

Cooling (°F DB)	5 ~ 118
Heating (°F WB)	-4 ~ +64

Indoor Unit:

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

System Data:

Refrigerant Type	R32
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	6.6
ODU Sound Pressure (Cooling / Heating) (±1 dB[A])[3]	54 /56
IDU Sound Pressure (H/M/L) (±1 dB[A])[3]	39 / 38 / 36
ODU Net / Shipping Weight (lbs.)	193.1 / 217.4
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)	1412 / 1200 / 988
Default ESP (in wg)	0.24
Minimum ESP/Fan Setting Value[4]	0.16 / 74
Maximum ESP/Fan Setting Value[4]	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 ODU: (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 18 / 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.

BACnet® is a registered trademark of ASHRAE. LonWorks® is a trademark of Echelon Corporation.

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.)

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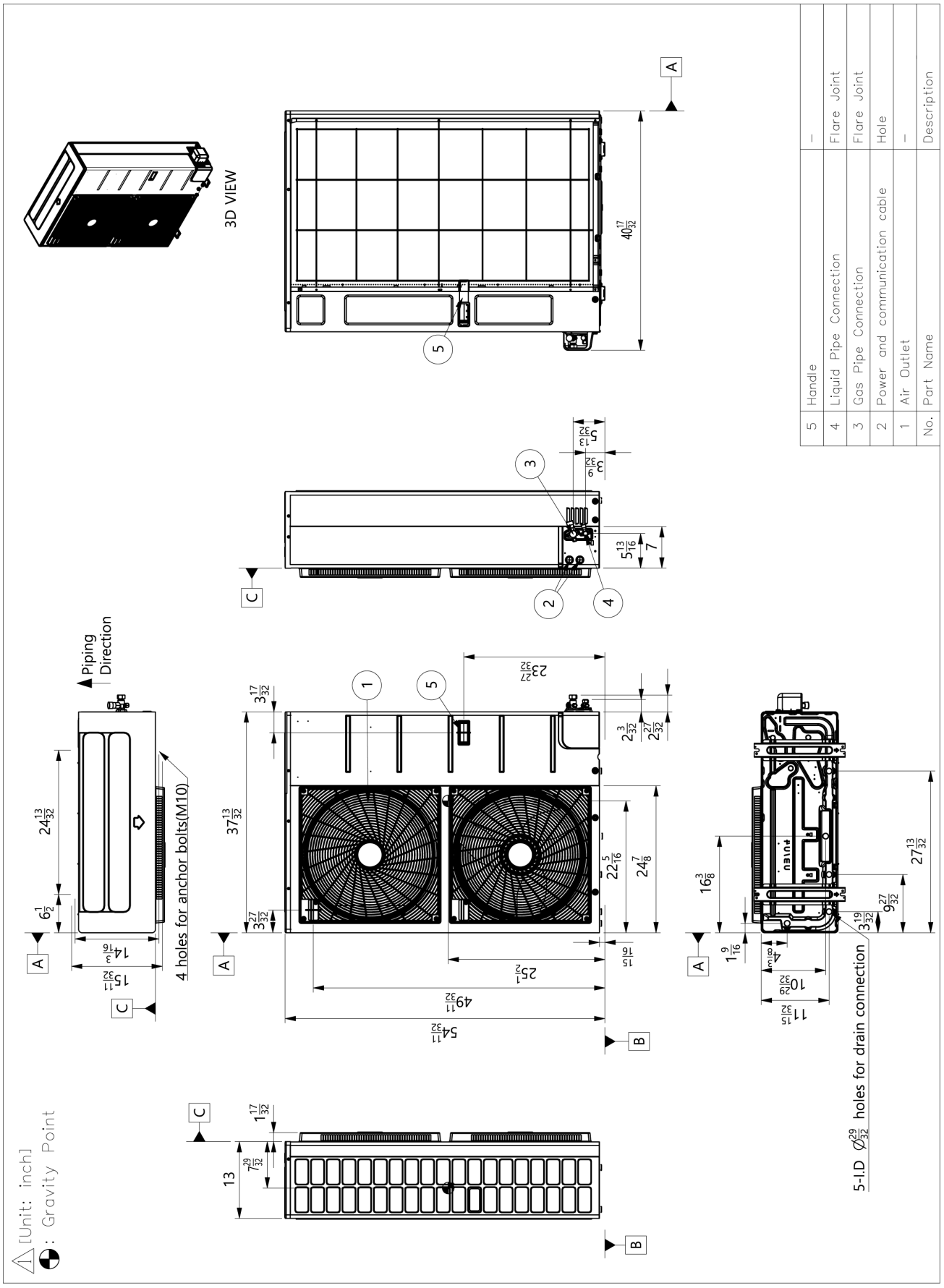

No.	Part Name	Description
5	Handle	–
4	Liquid Pipe Connection	Flare Joint
3	Gas Pipe Connection	Flare Joint
2	Power and communication cable	Hole
1	Air Outlet	–

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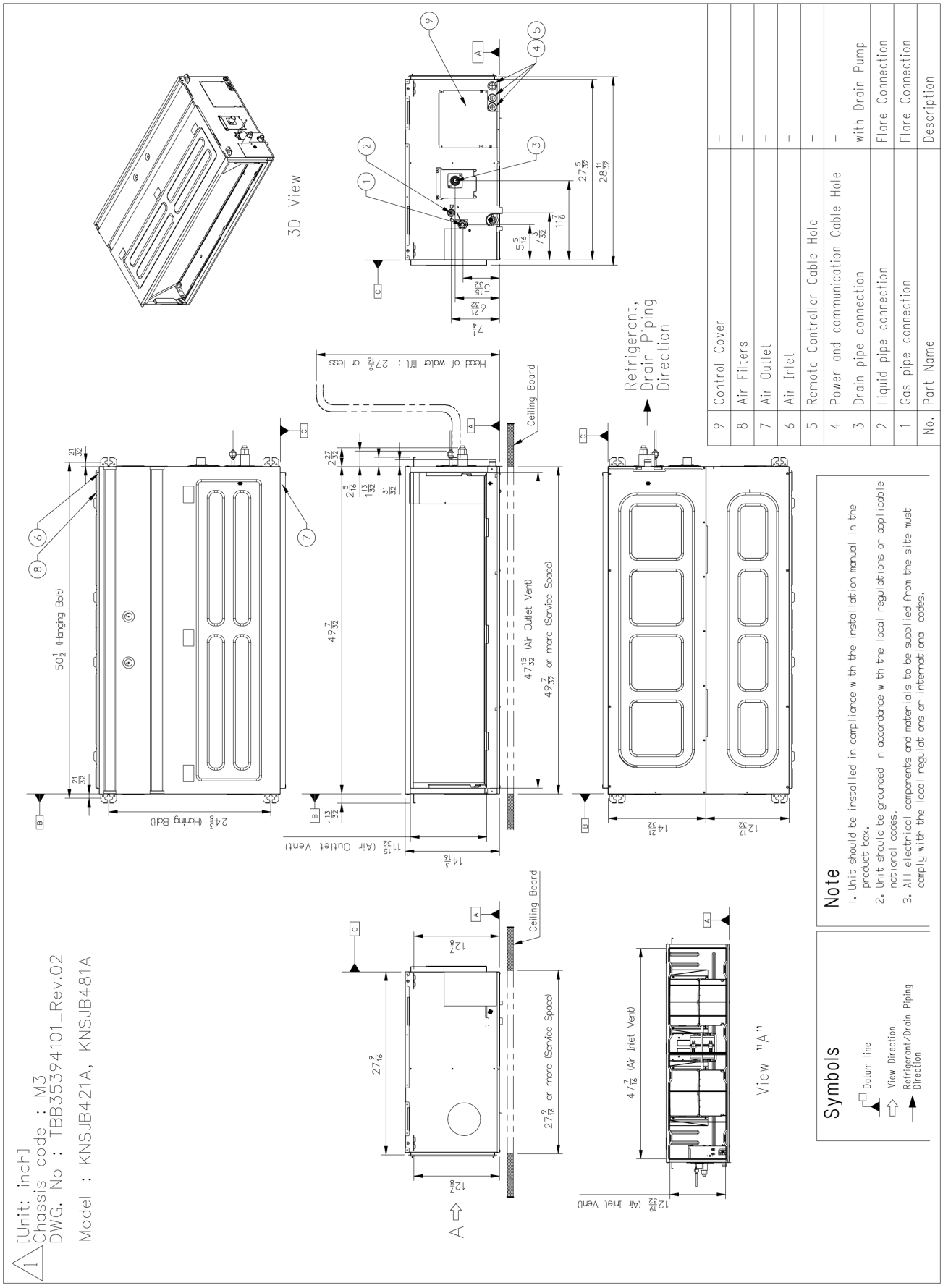

No.	Part Name	Description
9	Control Cover	-
8	Air Filters	-
7	Air Outlet	-
6	Air Inlet	-
5	Remote Controller Cable Hole	-
4	Power and communication Cable Hole	-
3	Drain pipe connection	with Drain Pump
2	Liquid pipe connection	Flare Connection
1	Gas pipe connection	Flare Connection