

Job Name/Location:

Tag No:

Date:

For: File Resubmit

PO No.:

Approval Other

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

**KSUDB121A****R32 Single Zone 2x2 Four-Way Cassette**

Indoor Unit (IDU) - KNUDB121A, Outdoor Unit (ODU) - KUSXB121A

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

Cooling Capacity (Min~Rated~Max) (Btu/h)	3,600~11,100~12,400
SEER2	21.5
EER2	13.00

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

**Heating:**

Heating Capacity (Min~Rated~Max) (Btu/h)	4,400~14,000~16,500
HSPF2	10.1
Max. Heating @ Indoor 70°F DB	
Outdoor 17°F WB	12,700
Outdoor 5°F WB	10,700
Outdoor -4°F WB	9,800

HSPF - Heating Seasonal Performance Factor

**Electrical:**

Power Supply (V/Hz/Ø)	208-230/60/1
MOP (A)	15
MCA (A)	13.4
Cooling Rated Amps (A)	9.65
Heating Rated Amps (A)	9.65
Compressor (A)	9.0
Fan Motor (IDU + ODU) (A)	0.25 + 0.4
Cooling Power Input (Min~Rated~Max @95°F) (kW)	0.19~0.85~1.10
Heating Power Input (Min~Rated~Max @47°F) (kW)	0.15~1.210~1.62

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

**Piping:**

Liquid (in., O.D., Connection Size/Pipe Size)	1/4 / 1/4
Vapor (in., O.D., Connection Size/Pipe Size)	3/8 / 3/8
Additional Refrigerant (oz./ft.)	0.22
Max. Pipe Length (ft.) <sup>2</sup>	65.6
Piping Length (no add'l refrig., ft.)	24.6
Max. Elevation (ft.)	49.2

**Features:**

- Inverter (Variable Speed) Compressor
- Internal Condensate Pump
- Swirl Wind / Jet Cool
- IDU compatible with Multi F ODUs
- Auto Restart / Auto Changeover
- R32 Leak Detection Sensor
- Ultra-quiet Turbo Fan
- Optional Wi-Fi Control

**Included Accessories:**

- Wireless Remote Controller — PQWRHQ0FDB

**Required Accessories:**

- Panel (24-13/32" x 24-13/32") - PT-QAGWO

**Optional Accessories:**

- Ventilation Flange<sup>3</sup> - PTVK430
- Auxiliary Heater Kit - PRARH1
- Wi-Fi Module - PWFMD200
- Single-Port Shutoff Valve - PRHP2010A
- Low Ambient Wind Baffle (Cooling operation to -4°F) - ZLABGP01A
- Drain Pan Heater - PQSH1202

**Controller Options:**

- MultiSITE™ CRC\* Controllers
- Simple Remote Controllers
- Standard III Remote Controllers
- Deluxe Remote Controller
- Remote Temperature Button Sensor
- Dry Contacts

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)	-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.)	2.43
IDU Sound Pressure (H/M/L) (±3 dB[A]) <sup>3</sup>	38 / 35 / 32
ODU Sound Pressure Max. (Cooling / Heating) (±3 dB[A]) <sup>3</sup>	49 / 52
ODU Net / Shipping Weight (lbs.)	75 / 79.4
IDU Net / Shipping Weight (lbs.)	28.4 / 34
Grille Net / Shipping Weight (lbs.)	6.3 / 8.6

**Fan:**

ODU Type	Axial
IDU Type	Turbo
Fan Speeds (Fan/Cool/Heat)	4 / 5 / 4
Quantity (ODU + IDU)	1 + 1
Motor/Drive	Brushless Digitally Controlled/Direct
ODU Air Flow Rate (CFM)	988
IDU Air Flow (CFM, H/M/L)	335 / 283 / 247
Dehumidification (pts./hr.)	2.5

**Notes:**

1. Acceptable operating voltage: 187V-253V.
2. Piping lengths are equivalent.
3. Must comply with applicable codes for fire isolation dampers.
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 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 Outdoor Unit (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. This unit comes with a dry helium charge.
7. 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.
8. Must follow installation instructions in the applicable LG installation manual.
9. Multi-compatible IDUs include socket adapters for refrigerant pipe connection with Single Zone systems.



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](http://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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# KSUDB121A

## R32 Single Zone 2x2 Four-Way Cassette

Indoor Unit (IDU) - KNUDB121A, Outdoor Unit (ODU) - KUSXB121A

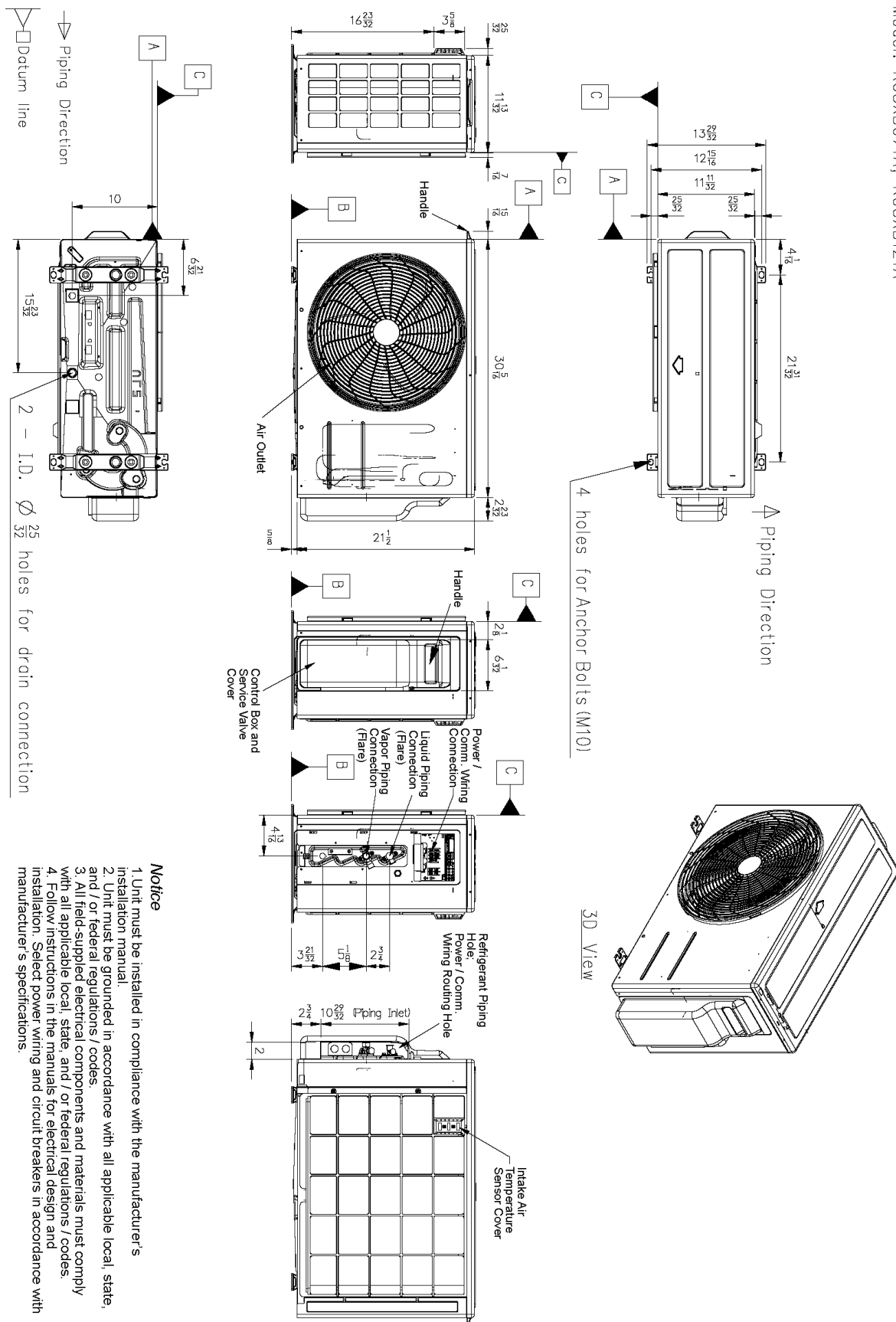


Tag No.: \_\_\_\_\_

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

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

Unit: inch  
Model: KUSXB091A, KUSXB121A



### Notice

1. Unit must be installed in compliance with the manufacturer's installation manual.
2. Unit must be grounded in accordance with all applicable local, state, and / or federal regulations / codes.
3. All field-supplied electrical components and materials must comply with all applicable local, state, and / or federal regulations / codes.
4. Follow instructions in the manuals for electrical design and installation. Select power wiring and circuit breakers in accordance with manufacturer's specifications.

KSUDB121A

R32 Single Zone 2x2 Four-Way Cassette

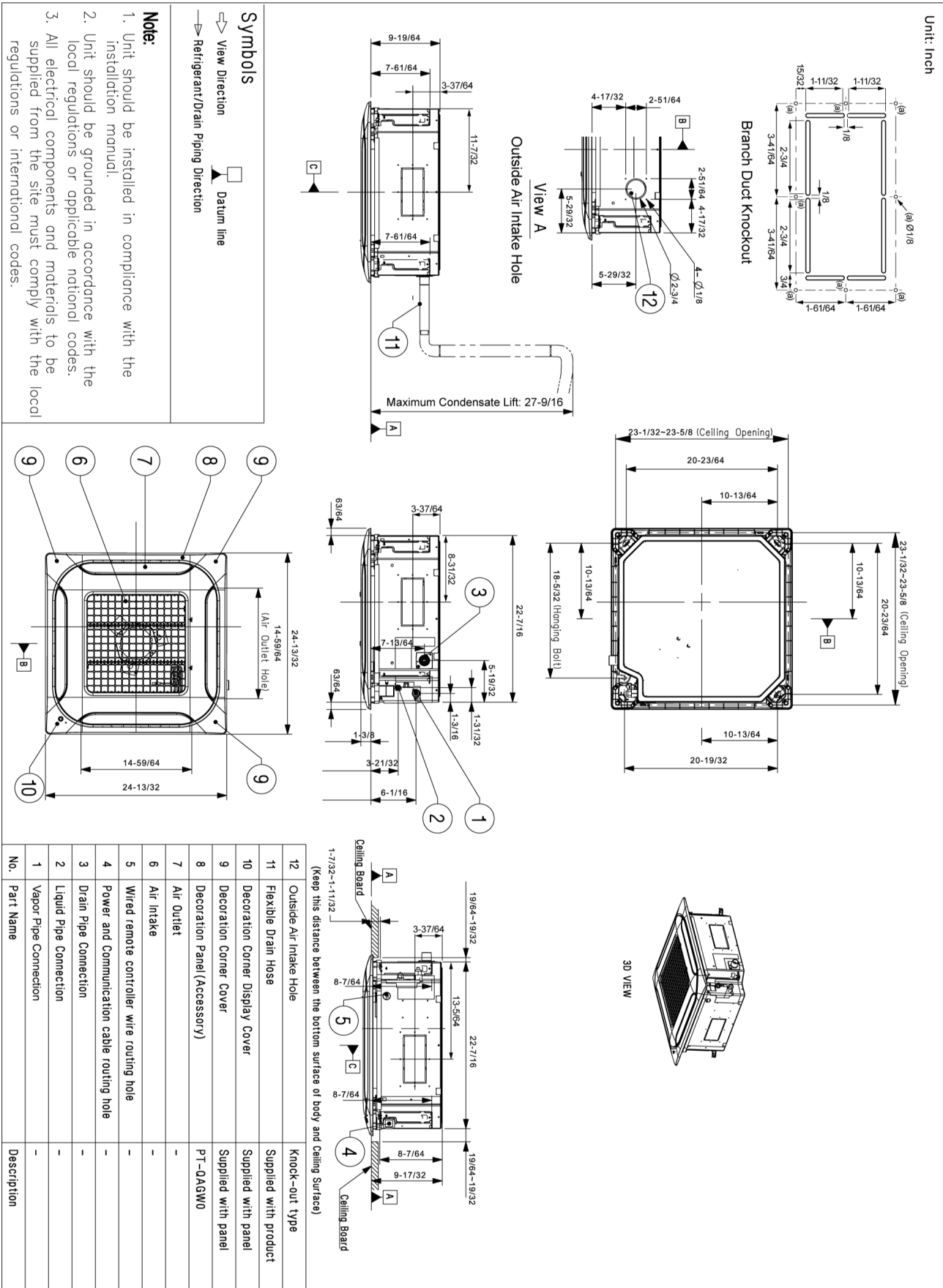
Indoor Unit (IDU) - KNUDB121A, Outdoor Unit (ODU) - KUSXB121A

LG

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

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

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



2

Liquid Pipe Connection

-

1

Vapor Pipe Connection

-

No.

Part Name

Description

3D VIEW