Job Name/Location: Tag No:

Date:

PO No.:

For: ☐ File ☐ Resubmit ☐ Approval ☐ Other_____

Architect: GC:

Engr: Mech:

Rep:
(Company) (Project Manager)

KSUDB181A

R32 Single Zone 2x2 Four-Way Cassette

Indoor Unit (IDU) - KNUDB181A, Outdoor Unit (ODU) - KUSXB181A

Performance:

Cooling:

Cooling Capacity (Min~Rated~Max) (Btu/h)	7,200~18,000 ~23,000
SEER2	20.5
EER2	13.00

SEER - Seasonal Energy Efficiency Ratio EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max) (Btu/h)	7,000~20,000~24,000
HSPF2	9.5
Max. Heating @ Indoor 70°F DB	
Outdoor 17°F WB	20,800
Outdoor 5°F WB	19.000
Outdoor -4°F WB	17,600

HSPF - Heating Seasonal Performance Factor

Electrical:

Power Supply (V¹/Hz/Ø)	208-230/60/1
MOP (A)	25
MCA (A)	16
Cooling Rated Amps (A)	13.35
Heating Rated Amps (A)	13.35
Compressor (A)	11.5
Fan Motor (IDU + ODU) (A)	0.25 + 1.6
Cooling Power Input (Min~Rated~Max @95°F) (kW)	0.46~1.385~2.50
Heating Power Input (Min~Rated~Max @47°F) (kW)	0.50~1.776~2.40

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Piping:

Liquid (in., O.D., Connection Size/Pipe Size)	1/4 / 3/8
Vapor (in., O.D., Connection Size/Pipe Size)	1/2 / 5/8
Additional Refrigerant (oz./ft.)	0.38
Max. Pipe Length (ft.)²	164
Piping Length (no add'l refrig., ft.)	24.6
Max. Elevation (ft.)	98.4

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-QAGW0

Optional Accessories:

☐ Ventilation Flange³ - PTVK430
☐ Auxiliary Heater Kit - PRARH1
☐ Wi-Fi Module - PWFMDD200
☐ Single-Port Shutoff Valve - PRHPZ010A
☐ Low Ambient Wind Baffle (Cooling operation to -4°F) -ZLABGP04A
☐ Drain Pan Heater - POSH1200

Controller Options:

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

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.)	4.19
IDU Sound Pressure (H/M/L) (±3 dB[A])³	41 / 39 / 36
ODU Sound Pressure Max. (Cooling / Heating) (±3 dB[A])³	48 / 52
ODU Net / Shipping Weight (lbs.)	136 / 154.3
IDU Net / Shipping Weight (lbs.)	30.9 / 37
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)	2.048
IDU Air Flow (CFM, H/M/L)	459 / 424 / 388
Dehumidification (pts./hr.)	3.1

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. (ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.)

AHRI CERTIFIED® www.ahridirectory.org
Unitary Small HP
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

For a complete list of available accessories, contact your LG representative.
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SB SZ FourWayCassette2x2 R32 KSUDB181A 2024 12 05 062832

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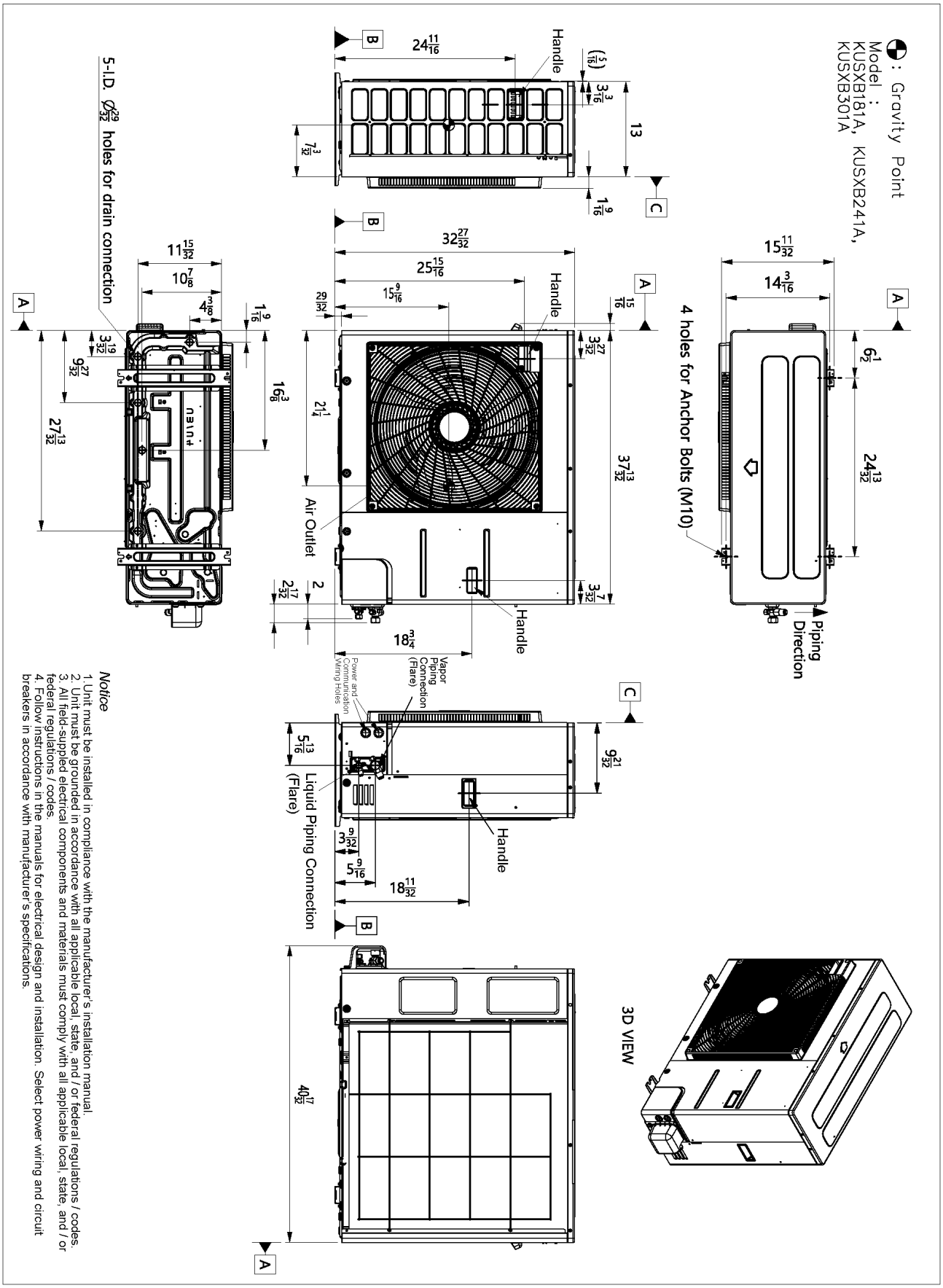

Notice

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.

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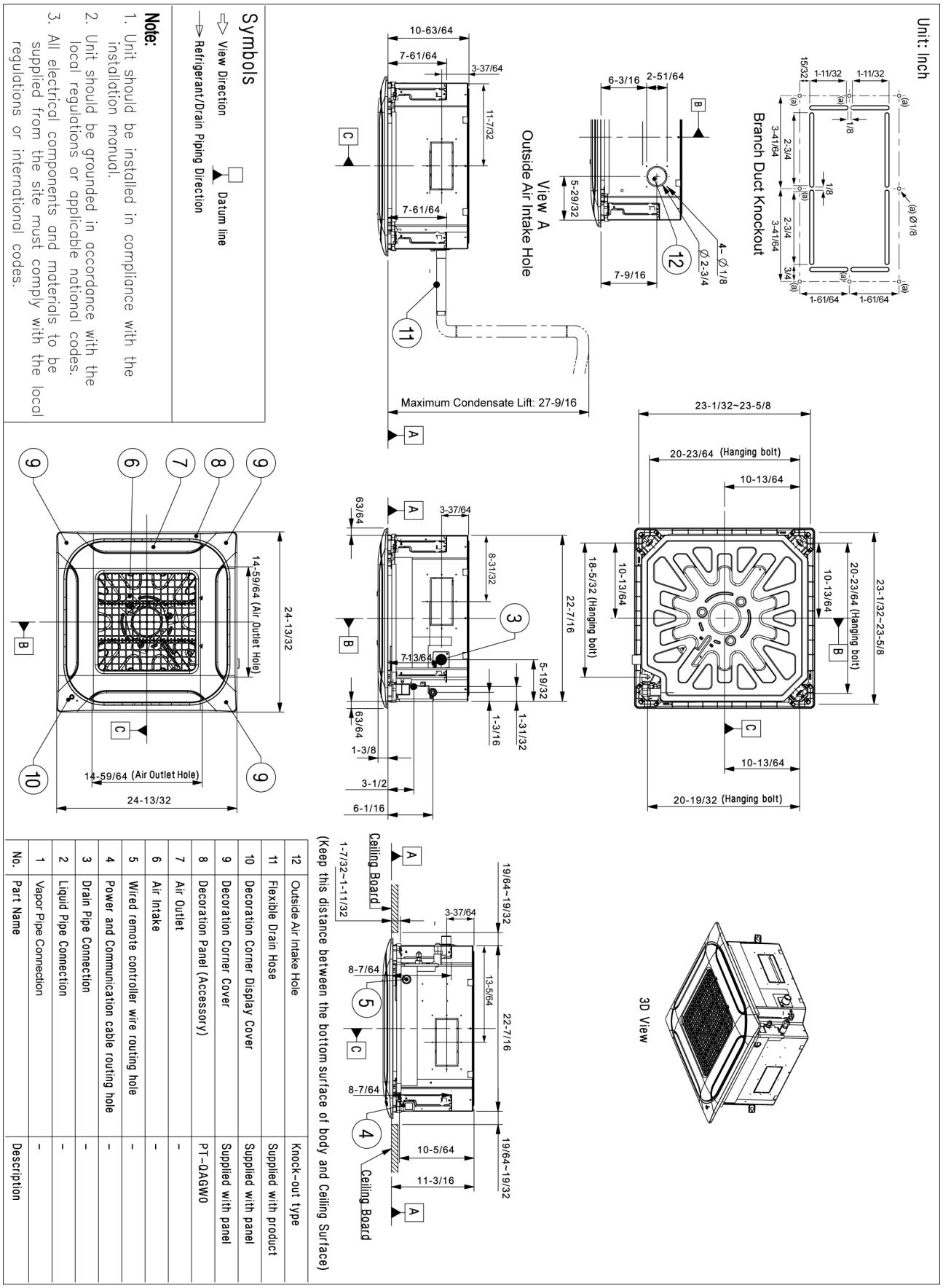

(Keep this distance between the bottom surface of body and Ceiling Surface)

No.	Part Name	Description
12	Outside Air Intake Hole	Knock-out type
11	Flexible Drain Hose	Supplied with product
10	Decoration Corner Display Cover	Supplied with panel
9	Decoration Corner Cover	Supplied with panel
8	Decoration Panel (Accessory)	PT-QAGW0
7	Air Outlet	-
6	Air Intake	-
5	Wired remote controller wire routing hole	-
4	Power and Communication cable routing hole	-
3	Drain Pipe Connection	-
2	Liquid Pipe Connection	-
1	Vapor Pipe Connection	-

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