

Job Name/Location:

Tag No:

Date:

|      |          |            |
|------|----------|------------|
| For: | File     | Resubmit   |
|      | Approval | Other_____ |

PO No.:



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

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

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



## KSUFB181A

### R32 Single-Zone One-Way Ceiling Cassette

Indoor Unit (IDU) - KNUFB181A, Outdoor Unit (ODU) - KUSXB181A

#### Performance:

##### Cooling:

|  |                      |
|--|----------------------|
| Cooling Capacity (Min~Rated~Max) (Btu/h) | 7,200~18,000 ~23,000 |
| SEER2                                    | 20.5                 |
| EER2                                     | 12.20                |

SEER - Seasonal Energy Efficiency Ratio EER - Energy Efficiency Ratio

##### Heating:

|  |                     |
|--|---------------------|
| Heating Capacity (Min~Rated~Max) (Btu/h) | 7,000~19,000~24,000 |
| HSPF2                                    | 9.5                 |
| Max. Heating @ Indoor 70°F DB            |                     |
| Outdoor 17°F WB                          | 20,800              |
| Outdoor 5°F WB                           | 14,600              |
| Outdoor -4°F WB                          | 13,600              |

HSPF - Heating Seasonal Performance Factor

#### Electrical:

|  |                 |
|--|-----------------|
| Power Supply (V/Hz/Ø)                          | 208-230/60/1    |
| MOP (A)  | 25              |
| MCA (A)  | 16.0            |
| Cooling Rated Amps (A)                         | 2.0~6.5~11.0    |
| Heating Rated Amps (A)                         | 2.2~8.1~10.5    |
| Compressor (A)                                 | 11.5            |
| Fan Motor (IDU + ODU) (A)                      | 0.58 + 1.6      |
| Cooling Power Input (Min~Rated~Max @95°F) (kW) | 0.46~1.475~2.50 |
| Heating Power Input (Min~Rated~Max @47°F) (kW) | 0.50~1.855~2.40 |

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

#### Piping:

|  |           |
|--|-----------|
| Liquid (ODU, in., Connection Size/Pipe Size) | 3/8 / 3/8 |
| Vapor (ODU, in., Connection Size/Pipe Size)  | 5/8 / 5/8 |
| Liquid (IDU, in., Connection Pipe Size)      | 1/4       |
| Vapor (IDU, in., Connection Pipe Size)       | 1/2       |
| Additional Refrigerant (oz./ft.)             | 0.38      |
| Max. Pipe Length (ft.) <sup>2</sup>          | 164       |
| 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
- IDU compatible with Multi F ODUs
- Ultra-quiet Turbo Fan
- Auto Restart / Auto Operation
- R32 Leak Detection Sensor
- Built-in Wi-Fi via Smart ThinQ app

#### Included Accessories:

- Wireless Remote Controller — AKB75735426

#### Required Accessories:

- Panel (50" x 16-7/32") - PT-UCA

#### Optional Accessories:

- Auxiliary Heater Kit - PRARH1
- Single-Port Shutoff Valve - PRHPZ010A
- R32 Alarm Kit - PLDCAA05
- Low Ambient Wind Baffle (Cooling operation to -4°F) - ZLABGP04B
- Drain Pan Heater - PQSH1200

#### Controller Options:

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

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

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.)   | 4.19              |
| ODU Sound Pressure Max. (Cooling / Heating) (±3 dB[A]) <sup>3</sup>   | 48 / 52           |
| IDU Sound Pressure (Cool / Heat) (Max./H/M/L) (±3 dB[A]) <sup>3</sup> | 46 / 44 / 40 / 35 |
| ODU Net / Shipping Weight (lbs.)                                      | 136 / 154.3       |
| IDU Net / Shipping Weight (lbs.)                                      | 30.4 / 37         |
| Grille Net / Shipping Weight (lbs.)                                   | 10.8 / 13.9       |
| Heat Exchanger Coating  | GoldFin™          |

#### Fan:

|                                |                                       |
|--------------------------------|---------------------------------------|
| ODU Type                       | Axial                                 |
| IDU Type                       | Cross Flow                            |
| Fan Speeds (Fan/Cool/Heat)     | 4 / 5 / 5                             |
| Quantity (ODU + IDU)           | 1 + 1                                 |
| Motor/Drive                    | Brushless Digitally Controlled/Direct |
| Max. ODU Air Flow Rate (CFM)   | 2,048                                 |
| IDU Air Flow (CFM, Max./H/M/L) | 512 / 477 / 406 / 355                 |
| Dehumidification (pts./hr.)    | 4.9                                   |

#### Notes:

- Acceptable operating voltage: 187V-253V.
- Piping lengths are equivalent.
- Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
- 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.
  - Power Supply Wiring to Outdoor Unit (No. x AWG): 3 x 12 for 9k, 12k, and 18k.
  - Power Wiring and Communication Wiring from Outdoor Unit to Indoor Unit (No. x AWG) 3 x 14 / 2 x 18.
- This unit comes with a dry helium charge.
- 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.
- Must follow installation instructions in the applicable LG installation manual.
- 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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## R32 Single-Zone One-Way Ceiling Cassette

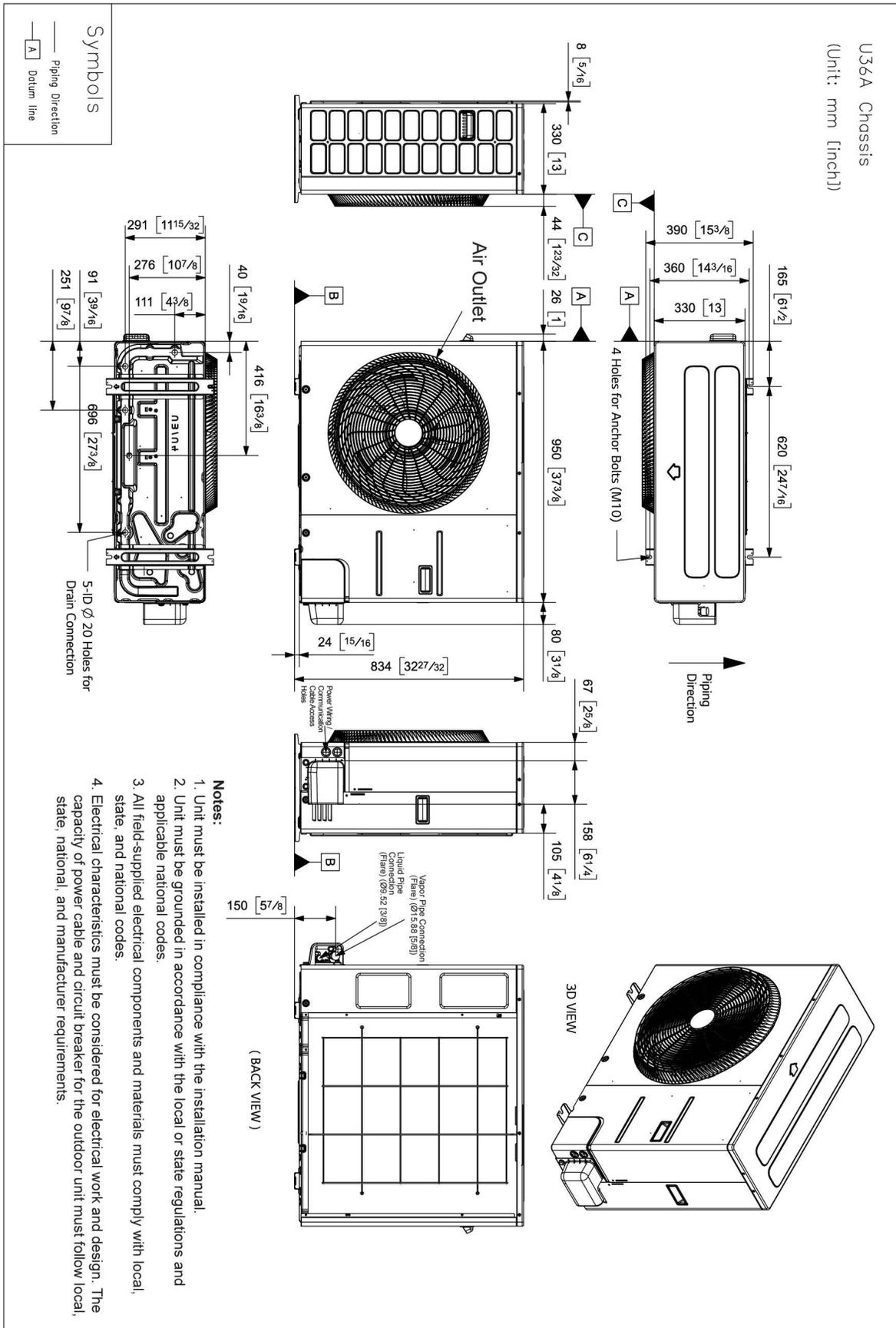
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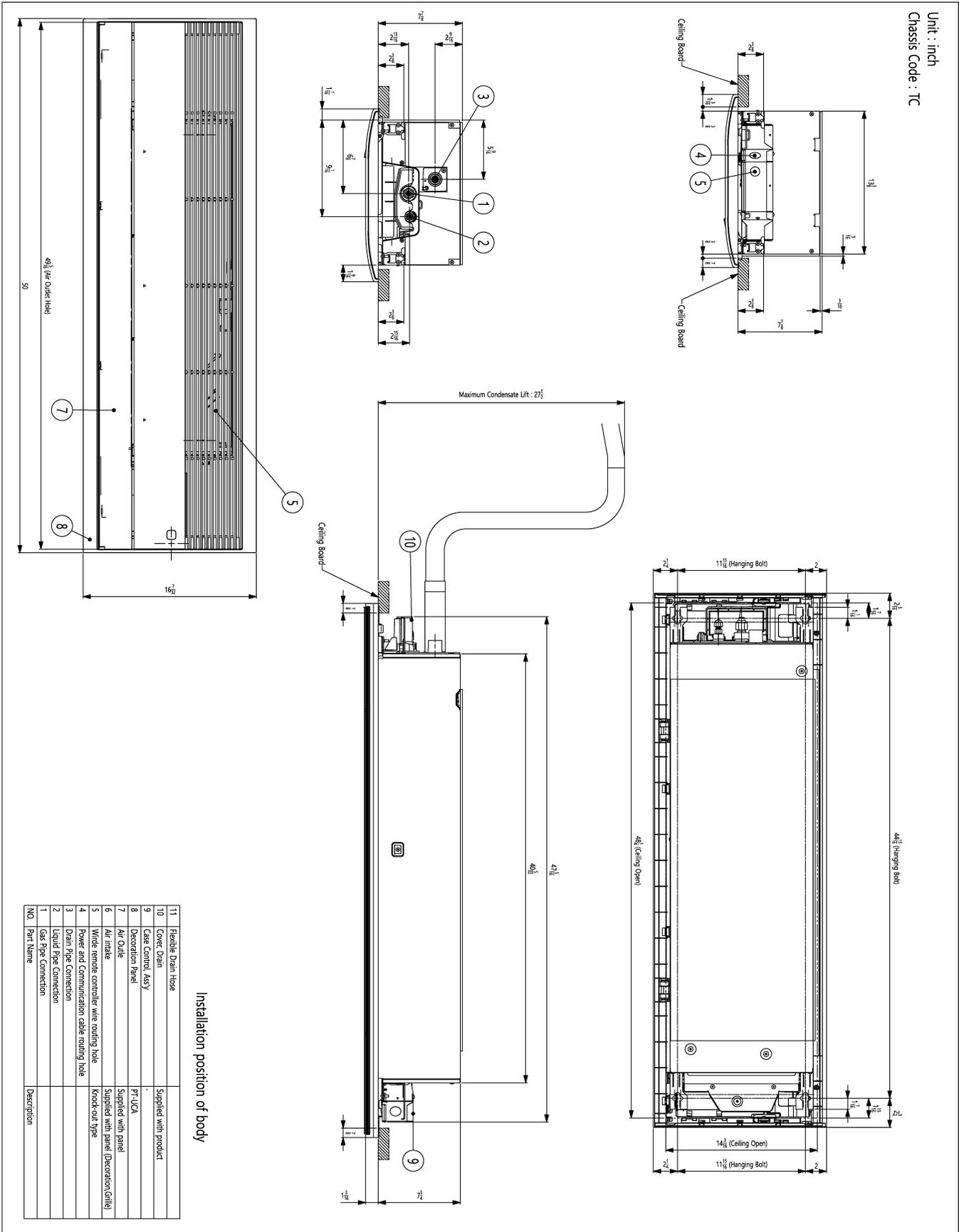


Tag No.: \_\_\_\_\_

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

Unit : inch  
Chassis Code : TC



Installation position of body

| NO. | Part Name                                  | Description                             |
|-----|--|---|
| 11  | Flexible Drain Hose                        | Supplied with product                   |
| 10  | Cover, Drain                               | Supplied with product                   |
| 9   | Case Control Assy                          | PT-LUCA                                 |
| 8   | Decoration Panel                           | Supplied with panel                     |
| 7   | Air Outlet                                 | Supplied with panel (Decoration/Grille) |
| 6   | Air Inlet                                  | Knock-out type                          |
| 5   | Wide remote controller wire routing hole   | Knock-out type                          |
| 4   | Power and Communication cable routing hole | Knock-out type                          |
| 3   | Drain Pipe Connection                      |   |
| 2   | Liquid Pipe Connection                     |   |
| 1   | Gas Pipe Connection                        |   |