

**Job Name/Location:****Tag No.:****Date:**

|             |          |             |
|-------------|----------|-------------|
| <b>For:</b> | File     | Resubmit    |
|             | Approval | Other _____ |

**PO No.:****Architect:****GC:****Engr:****Mech:****Rep:**

(Company)

(Project Manager)

**KSUAK181A****R32 Single Zone Art Cool™ Mirror Wall Mounted**

Outdoor Unit (ODU) - KUSAB181A, Indoor Unit (IDU) - KNUAK181A

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

|                                         |                         |
|-----------------------------------------|-------------------------|
| Cooling Capacity (Min~Rated~Max, Btu/h) | 3,070 ~ 18,000 ~ 24,210 |
| SEER2                                   | 23.0                    |
| EER2                                    | 13.00                   |

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

**Heating:**

|                                         |                         |
|-----------------------------------------|-------------------------|
| Heating Capacity (Min~Rated~Max, Btu/h) | 3,070 ~ 21,600 ~ 30,020 |
| HSPF2                                   | 10.0                    |
| Max. Heating @ Indoor 70°F DB (Btu/h)   |                         |
| Outdoor 17°F WB                         | 18,600 (86%)            |
| Outdoor 5°F WB                          | 15,120 (70%)            |
| Outdoor -4°F WB                         | 12,160 (56%)            |

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)                                 | 30                 |
| MCA (A)                                 | 19                 |
| Cooling / Heating Rated Amps (A)        | 15.1               |
| Compressor (A)                          | 14.3               |
| Fan Motor (IDU + ODU) (A)               | 0.4 + 0.78         |
| Cooling Power Input (Min~Rated~Max, kW) | 0.30 ~ 1.38 ~ 2.65 |
| Heating Power Input (Min~Rated~Max, kW) | 0.66 ~ 1.83 ~ 3.30 |
| Locked Rotor Amps (A)                   | 17.0               |

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

**Piping:**

|                                            |             |
|--------------------------------------------|-------------|
| Installed Liquid Pipe (in., O.D.)          | 3/8 Flare   |
| Installed Vapor Pipe (in., O.D.)           | 5/8 Flare   |
| IDU Liquid Connection (in., O.D.)          | 3/8 Flare   |
| IDU Vapor Connection (in., O.D.)           | 5/8 Flare   |
| Additional Refrigerant (oz./ft.)           | 0.32        |
| Min. / Max. Pipe Length (ft.) <sup>2</sup> | 9.8 / 114.8 |
| Piping Length (no add'l refig., ft.)       | 24.6        |
| Max. Elevation (ft.)                       | 49.2        |

**Features:**

- Inverter (Variable Speed Compressor)
- 24-Hour on/off timer
- 4-Way auto swing
- Sleep Mode
- Jet Cool/Jet Heat
- Auto Restart
- Auto Changeover
- Built-in Drain pan heater
- Built-in Wi-Fi via ThinQ app
- Smart Diagnosis
- 3M Micro Filter
- IDU compatible with Multi F ODU
- Low ambient cooling down to 14°F (0°F with Wind Baffle Kit)
- Self-cleaning indoor coil
- IDU R32 leak detection sensor

**Included Accessories:**

- Wireless Remote Controller — AKB76044208

**Optional Accessories:**

- PI-485 - PMNFP14A1
- Single-Port Shutoff Valve - PRHPZ010A
- Low Ambient Wind Baffle (Cooling to 0°F) - ZLABGP04A

**Controller Options:**

- MultiSITE™ CRC\* Controllers
- Simple Remote Controllers
- Standard III Remote Controllers
- Remote Temp. Button Sensor
- Dry Contacts
- AC Smart 5 Central Controller
- LonWorks® Gateway
- MultiSITE Comm. Mgr.
- AC Smart 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) | 14 ~ 118 |
| Heating (°F WB) | -4 ~ +65 |

**Indoor Unit:**

|                 |         |
|-----------------|---------|
| Cooling (°F WB) | 53 ~ 75 |
| Heating (°F DB) | 60 ~ 86 |

**System Data:**

|                                                                |                   |
|----------------------------------------------------------------|-------------------|
| Refrigerant Type                                               | R32               |
| Refrigerant Control                                            | EEV               |
| Refrigerant Charge (lbs.)                                      | 3.20              |
| ODU Sound Pressure (Cooling / Heating) (±1 dB[A]) <sup>3</sup> | 55 / 55           |
| IDU Sound Pressure (Cooling (H/M/L/SL) (±1 dB[A]) <sup>3</sup> | 47 / 42 / 37 / 31 |
| Heating (H/M/L) (±1 dB[A]) <sup>3</sup>                        | 47 / 42 / 37      |
| ODU Net / Shipping Weight (lbs.)                               | 127.9 / 145.5     |
| IDU Net / Shipping Weight (lbs.)                               | 27.8 / 33.5       |
| Heat Exchanger Coating                                         | GoldFin™          |

**Fan:**

|                              |                                         |
|------------------------------|-----------------------------------------|
| ODU Type                     | Propeller                               |
| IDU Type                     | Cross Flow                              |
| Fan Speeds (Fan/Cool/Heat)   | 6 / 6 / 6                               |
| Quantity (ODU + IDU)         | 1 + 1                                   |
| Motor/Drive                  | Brushless Digitally Controlled / Direct |
| Maximum ODU Air Volume (CFM) | 2,119                                   |
| IDU Air Flow                 |                                         |
| Cooling, Max/H/M/L (CFM)     | 706 / 530 / 477 / 371                   |
| Heating, Max/H/M/L (CFM)     | 706 / 547 / 494 / 371                   |
| Dehumidification (pts./hr.)  | 5.5                                     |

**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 ODU: (No. x AWG): 3 x 14 for 9/12k, 3 x 12 for 18k units.
  - Power Wiring / Communication Wiring from Outdoor Unit to Indoor Unit: (No. x AWG) 3 x 14 / 2 x 18.
- See Engineering Manual for sensible and latent capacities.
- Power wiring cable size must comply with the applicable local and national code.
- The indoor unit comes with a dry helium charge.
- 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.
- Must follow installation instructions in the applicable LG installation manual.
- Multi-compatible 18k IDUs include socket adapters for refrigerant pipe connections with single zone systems.

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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](http://www.energystar.gov). (ENERGY STAR and the ENERGY STAR mark are registered trademarks owned by the U.S. Environmental Protection Agency.)

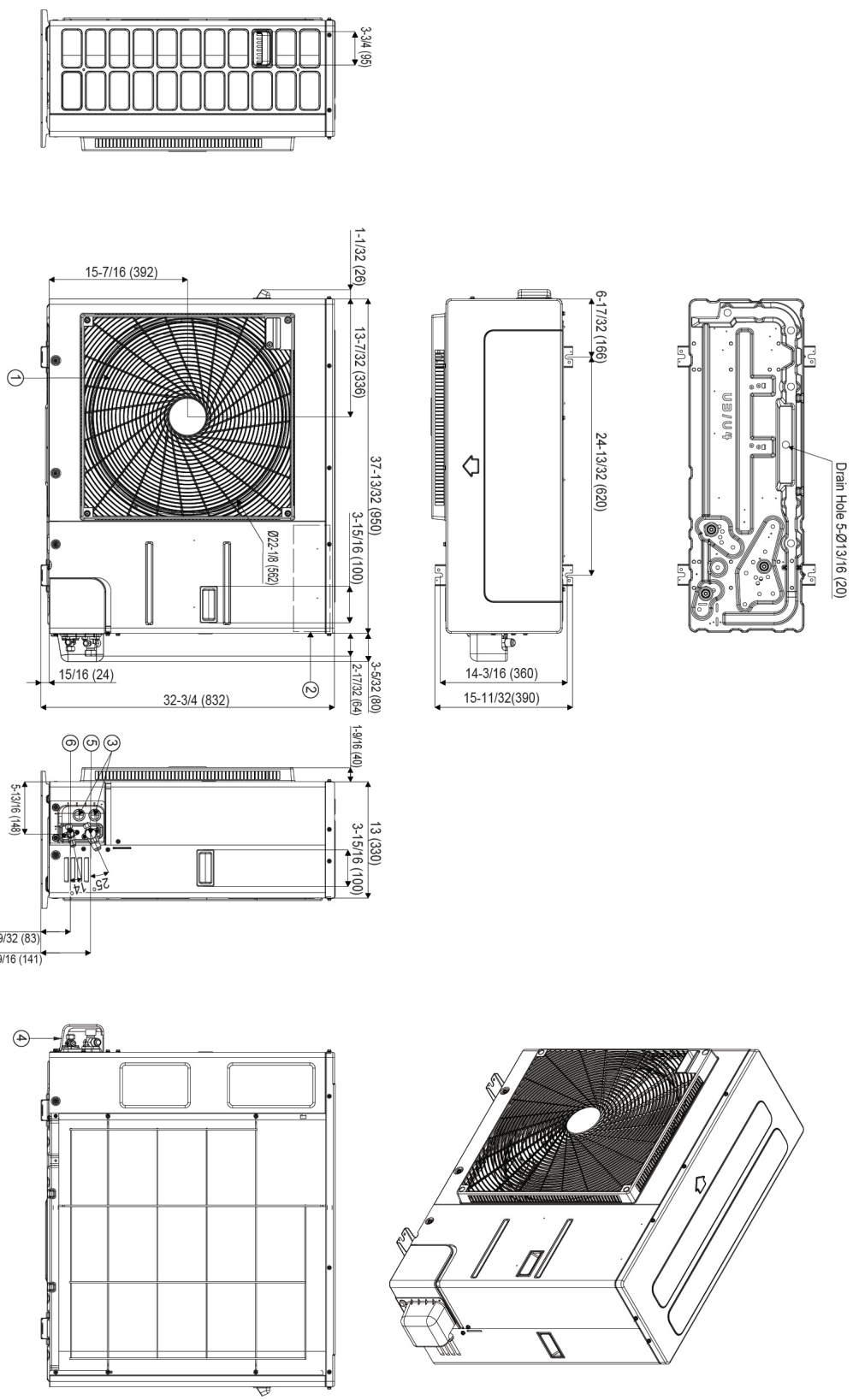
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Unit : inch (mm)



|    |                                    |             |
|----|------------------------------------|-------------|
| 6  | Liquid Pipe Connection             | Flare Joint |
| 5  | Gas Pipe Connection                | Flare Joint |
| 4  | Service Valve Cover                |             |
| 3  | Power and Communication Cable Hole |             |
| 2  | Control Box                        |             |
| 1  | Air Outlet                         |             |
| No | Name                               | Description |

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