

Job Name/Location:

Tag #:

Date:

For: File Resubmit

PO No.:

Approval Other

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

**LA181HSV5****Single Zone Art Cool™ Mirror Wall Mounted**

Outdoor Unit (ODU) - LSU181HSV5, Indoor Unit (IDU) - LAN181HSV5

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

|                                             |                         |
|---------------------------------------------|-------------------------|
| Cooling Capacity<br>(Min~Rated~Max) (Btu/h) | 3,070 ~ 18,000 ~ 29,515 |
| SEER2                                       | 22.0                    |
| EER2                                        | 12.58                   |

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

**Heating:**

|                                             |                         |
|---------------------------------------------|-------------------------|
| Heating Capacity<br>(Min~Rated~Max) (Btu/h) | 3,070 ~ 21,600 ~ 38,898 |
| HSPF2                                       | 9.5                     |
| Max. Heating @ Indoor 70°F DB               |                         |
| Outdoor 19°F DB / 17°F WB                   | 22,340 (103%)           |
| Outdoor 6°F DB / 5°F WB                     | 19,300 (89%)            |
| Outdoor -3°F DB / -4°F WB                   | 16,760 (77%)            |

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

**Outdoor Unit:**

|                                  |               |
|----------------------------------|---------------|
| MOP (A)                          | 30            |
| MCA (A)                          | 19            |
| Cooling / Heating Rated Amps (A) | 13.42 / 15.48 |
| Compressor (A)                   | 14.3          |
| Fan Motor (A)                    | 0.78          |

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

**Total Power Input:**

|                          |      |
|--------------------------|------|
| Cooling Power Input (kW) | 1.43 |
| Heating Power Input (kW) | 1.73 |

**Piping:**

|                                            |             |
|--------------------------------------------|-------------|
| Liquid Line (in., O.D.)                    | ø3/8        |
| Vapor Line (in., O.D.)                     | ø5/8        |
| Additional Refrigerant (oz./ft.)           | 0.38        |
| Min. / Max. Pipe Length (ft.) <sup>2</sup> | 9.8 / 114.8 |
| Piping Length (no add'l refriger., ft.)    | 24.6        |
| Max. Elevation (ft.)                       | 49.2        |

**Controls Features:**

- 24-Hour on/off timer
- 4-Way auto swing
- Auto changeover
- Auto restart
- Jet cool/Jet heat
- Built-in low ambient standard, down to 14°F (cooling mode)
- Condensate Sensor Connection
- Inverter (variable speed compressor)
- IDU compatible with Multi F ODUs
- Smart Diagnosis
- 3M Micro Filter
- Self-cleaning indoor coil
- Sleep mode
- Cooling only function
- Built-in Wi-Fi via ThinQ app
- Built-in base pan heater

**Optional Accessories:**

- ☐ MultiSITE™ CRC1 - PREMTBVCO
- ☐ MultiSITE CRC1+ - PREMTBVC1
- ☐ MultiSITE Comm. Mgr. - PBACNBTR0A
- ☐ PI-485 - PMNFP14A1
- ☐ Dry Contact - PDRYCB320
- ☐ LonWorks® Gateway - PLNWKB100
- ☐ AC Smart IV BACnet® Gateway - PBACNA000
- ☐ ACP IV BACnet Gateway - PQNFB17C2
- ☐ Low Ambient Wind Baffle Kit (Cooling to 0°F) - ZLABGP04A

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 to 118 |
| Heating (°F WB) | -4 to 65  |

**Indoor Unit:**

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

**Electrical:**

|                       |                  |
|-----------------------|------------------|
| Power Supply (V/Hz/Ø) | 208-230 / 60 / 1 |
|-----------------------|------------------|

**System Data:**

|                                                                     |                   |
|---------------------------------------------------------------------|-------------------|
| Refrigerant Type                                                    | R410A             |
| Refrigerant Control                                                 | EEV               |
| Refrigerant Charge (lbs.)                                           | 3.86              |
| ODU Sound Pressure<br>(Cooling / Heating) (±1 dB[A]) <sup>3</sup>   | 55 / 55           |
| IDU Sound Pressure<br>Cooling (H/M/L/Sleep) (±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.)                                    | 29.8 / 36.4       |
| 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 |
| ODU Max. Air Flow Rate (CFM)             | 2,119                                 |
| IDU Air Flow<br>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:**

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. All communication / connection (power) cable from the outdoor unit to the indoor unit is field supplied and is to be minimum four-conductor, 14 AWG, stranded, shielded or unshielded (if shielded, it must be grounded to the chassis of the outdoor unit only), and must comply with applicable local and national codes.
5. See Engineering Manual for sensible and latent capacities.
6. Power wiring cable size must comply with the applicable local and national code.
7. The indoor unit comes with a dry helium charge.
8. 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.
9. Must follow installation instructions in the applicable LG installation manual.
10. Multi compatible 18K IDUs include socket adapters for refrigerant pipe connections with Multi F systems. BACnet® is a registered trademark of ASHRAE. LonWorks® is a trademark of Echelon Corporation.



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LA181HSV5  
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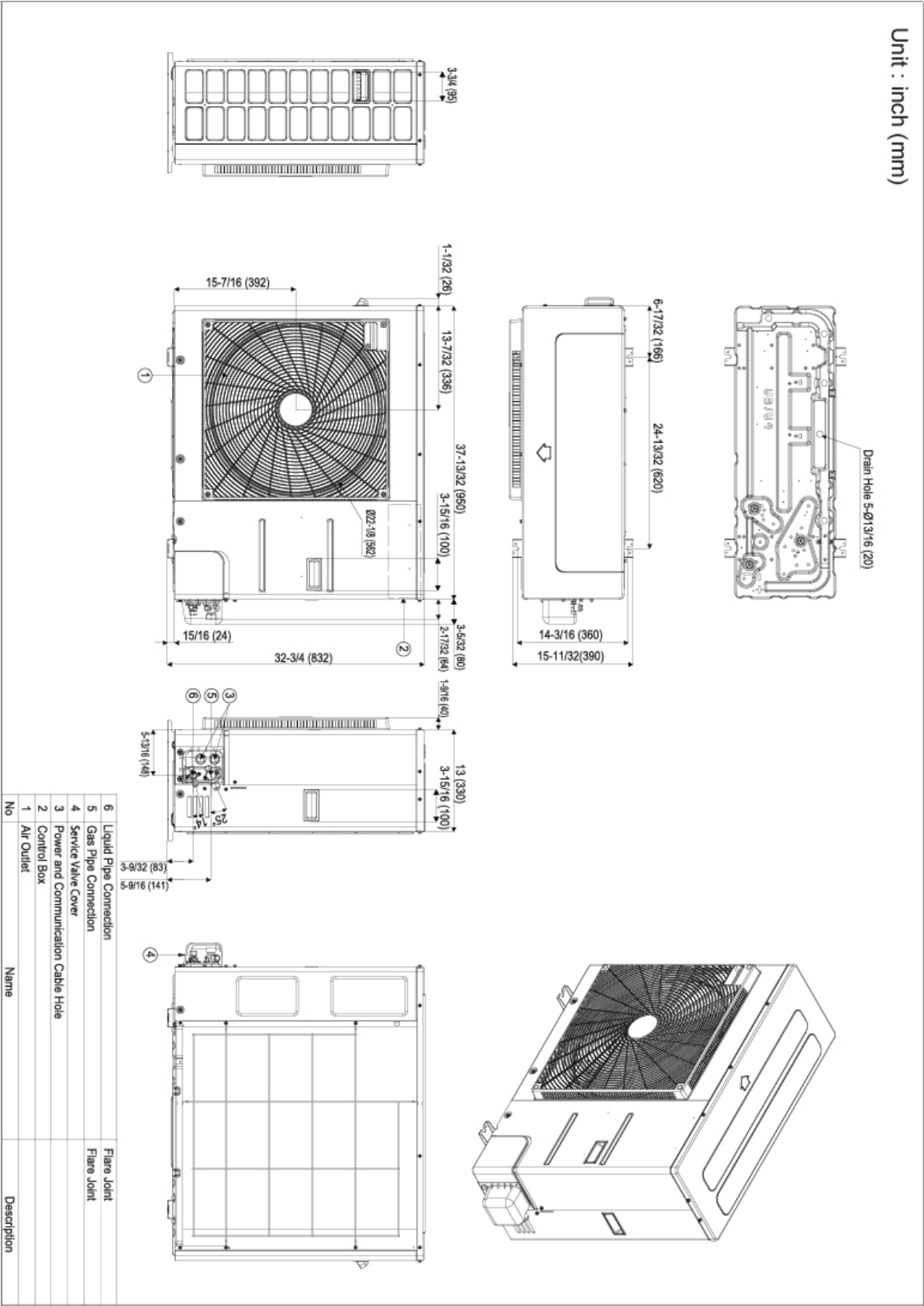
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Unit : inch (mm)

