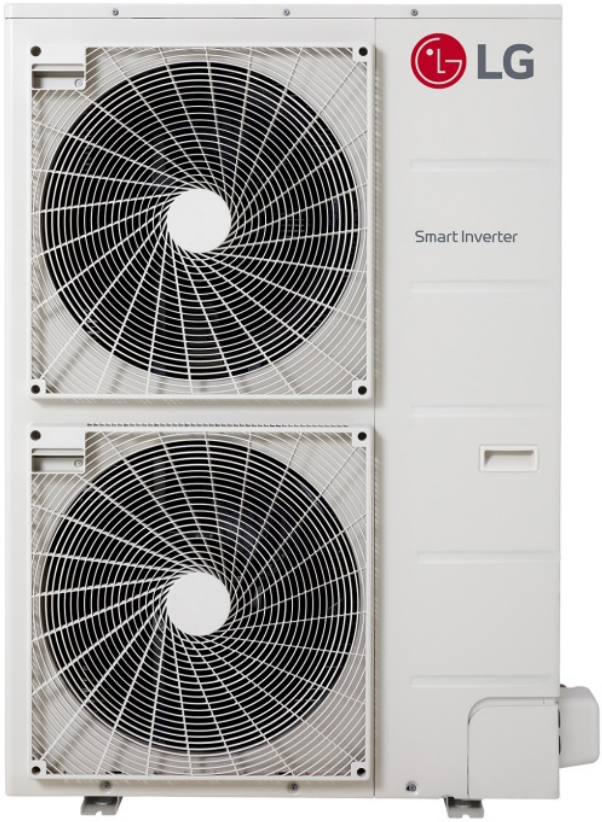
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LG KUMXA361A Outdoor Unit



Performance

- Cooling Capacity (Min.-Rated-Max., Btu/h): 10,800~36,000~47,000
- Heating Capacity (Min.-Rated-Max., Btu/h): 12,420~45,000~50,000
- Max. Heating Capacity at 7°F (Btu/h): 49,600
- Max. Heating Capacity at 17°F (Btu/h): 45,000
- Max. Heating Capacity at -4°F (Btu/h): 40,000
- Max. Heating Capacity at -13°F (Btu/h): 35,900
- Cooling COP @95°F (Rated): 4.25
- Heating COP @47°F (Rated): 4.00

Electrical

- Power Supply (V/Hz/Ø): 208-230V, 60, 1
- MOP (A): 40
- MCA (A): 32.1
- Cooling Rated Amps (A): 24.30
- Heating Rated Amps (A): 24.30
- Compressor (A): 23.0
- Fan Motor (A): 1.30

- Locked Rotor Amps (A): 22

Operating Range

- Cooling (°F DB): 14 to 118
- Heating (°F WB): -13 to +64

Unit Data

- Refrigerant Type: R32
- Refrigerant Control: EEV
- Sound Pressure (Cool / Heat) ±1 dB(A): 53 / 55
- Net / Shipping Weight (lbs.): 218.3 / 239.2
- Power Wiring: ODU→BDU, BDU→IDU (No x AWG): 3 x 14, 3 x 14
- Comm. Wiring: ODU→BDU, BDU→IDU (No x AWG): 2 x 18, 2 x 18
- Heat Exchanger Coating: Gold Fin™
- Minimum No. of Indoor Units: 2
- Maximum No. of Indoor Units: 5

Compressor

- Type: Scroll
- Quantity: 1
- Oil / Type: PVE

Fan

- Type: Propeller
- Quantity: 2
- Motor / Drive: Brushless Digitally Controlled/Direct
- Max. Airflow Rate (CFM): 2,119 x 2

Piping

- Refrigerant Charge (lbs.): 9.262
- Liquid Line Connection (in., O.D.): 3/8 x 1

- Vapor Line Connection (in., O.D.): 3/4 x 1
- Maximum Total Piping (ft.): 475.7
- Min. / Max. ODU to IDU Piping (ft.): 32.8 / 229.6
- Piping Length (no add'l refrigerant, ft.): 180.4
- Additional Refrigerant Charge Main Pipe (oz. / ft.): 0.54
- Additional Refrigerant Charge Branch Pipe (oz. / ft.): 0.22
- Maximum Elevation between ODU and IDU (ft.): 98.4
- Maximum Elevation between IDU and IDU (ft.): 49.2

Features

- Scroll (Variable Speed) Compressor
- Auto operation / Auto restart
- Integrated central control connection
- Self-diagnosis / Soft start
- Low ambient cooling down to 14°F (-4°F with Wind Baffle Kit)
- Restart delay (three [3] minutes)
- Factory installed Drain Pan Heater

Required Accessories

- 2-Port BD Unit – PMBD3620ZR
- 3-Port BD Unit – PMBD3630ZR
- 4-Port BD Units – PMBD3640ZR / PMBD3641ZR

Optional Accessories

- Power Distribution Indicator (PDI) Premium – PQNUD1S41
- LG Monitoring View (LGMV) for Computers – PRCTIL0
- Low Ambient Wind Baffle Kit – ZLABGP04A x 2

Controller Options

- MultiSITE Communication Mgr.
- AC Smart 5

- ACP 5

Notes

1. Acceptable operating voltage: 187V – 253V.
2. All power supply wiring to the ODU is field supplied, solid or stranded. The power wiring and the communication wiring from the ODU to the BDU, and from the BDU to the IDU is field supplied and must be stranded, shielded or unshielded (if shielded, it must be grounded to the chassis of the ODU only). All wiring must comply with applicable local and national codes.
3. Piping lengths are equivalent.
4. 180.4 ft. of Main Piping + 49.2 ft. of Branch Piping.
5. 49.2 ft. of Main Piping + 131.2 of Branch Piping.
6. At least one branch distribution (BD) unit is required for system operation; a maximum of two can be installed per outdoor unit with the use of a Y-branch accessory (ARBLN03321).
7. Sound pressure levels are tested in an anechoic chamber under ISO Standard 3745.
8. See the Engineering Manual Capacity Tables for ODU sensible and latent capacities.
9. See the Engineering Manual Combination Tables for allocation of ODU rated capacity to each connected IDU when all are calling for full capacity. Allocation percentages should be applied to ODU capacity at design conditions.
10. Capacity is rated 0 ft. above sea level, with a 0 ft. level difference between ODU and IDUs, and the following refrigerant pipe lengths:
    - KUMXA361A: 16.4 ft. Main + (16.4 ft. Branch x 5) = 98.4 ft.
    - KUMXA421A: 16.4 ft. Main + (16.4 ft. Branch x 6) = 114.8 ft.
    - KUMXA481A: 16.4 ft. Main + (16.4 ft. Branch x 8) = 147.6 ft.
11. Must follow installation instructions in the applicable LG installation manual.
12. See the Engineering Manual Capacity Tables for ODU capacity at design conditions.





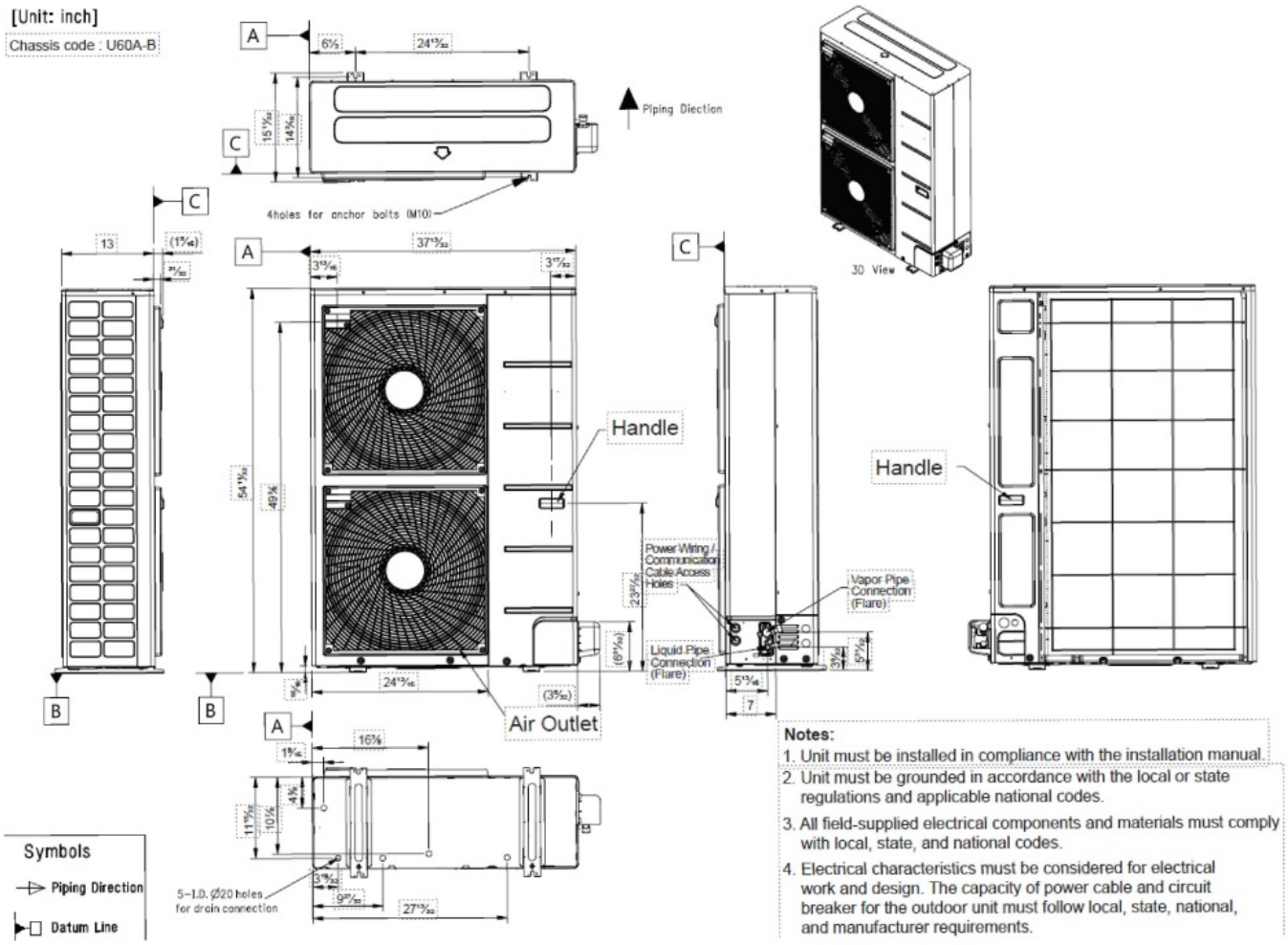


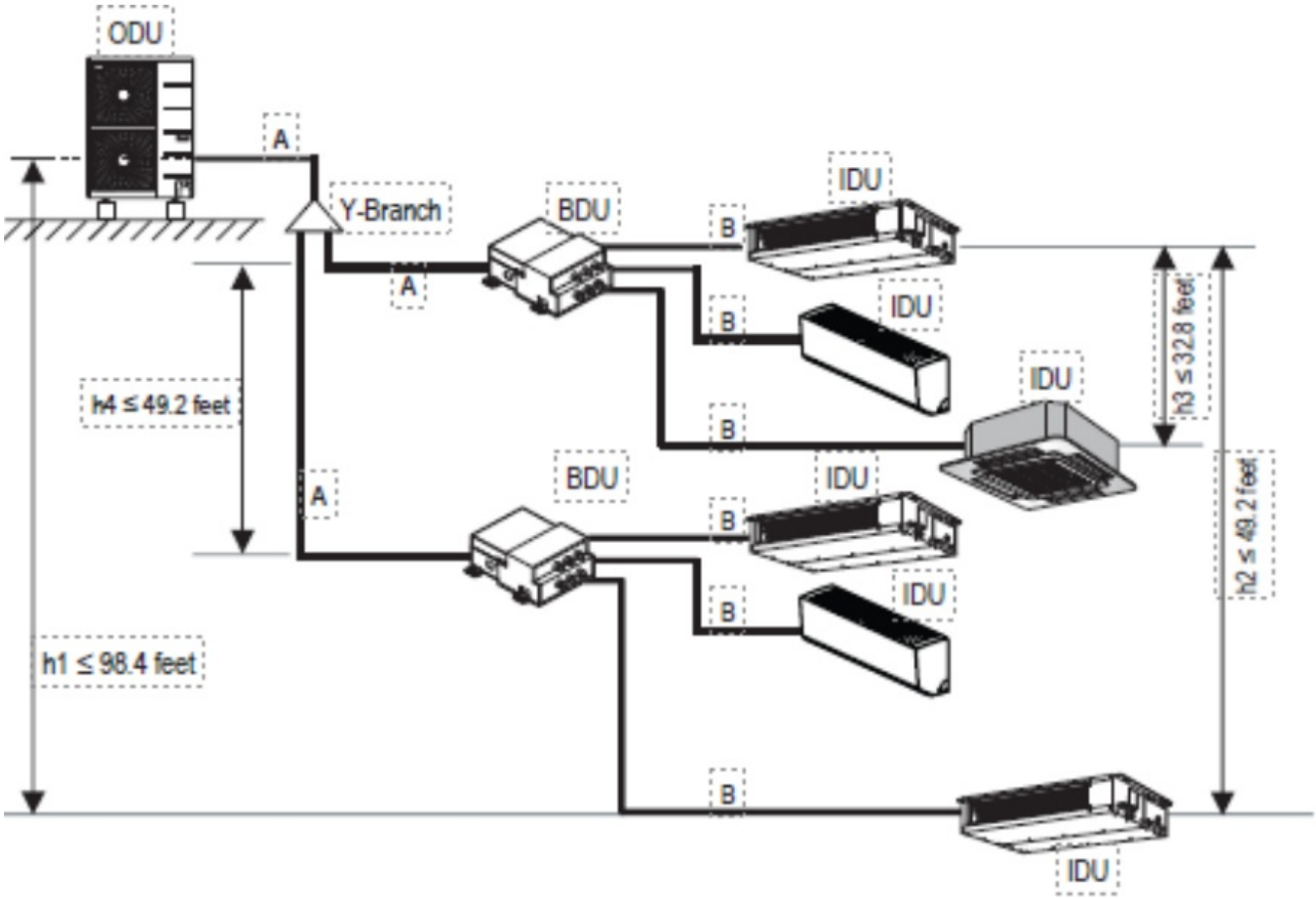


Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps (excluding ductless systems) must be matched with appropriate coil components to meet ENERGY STAR® criteria. Ask your contractor for details or visit www.energystar.gov.

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

Dimension



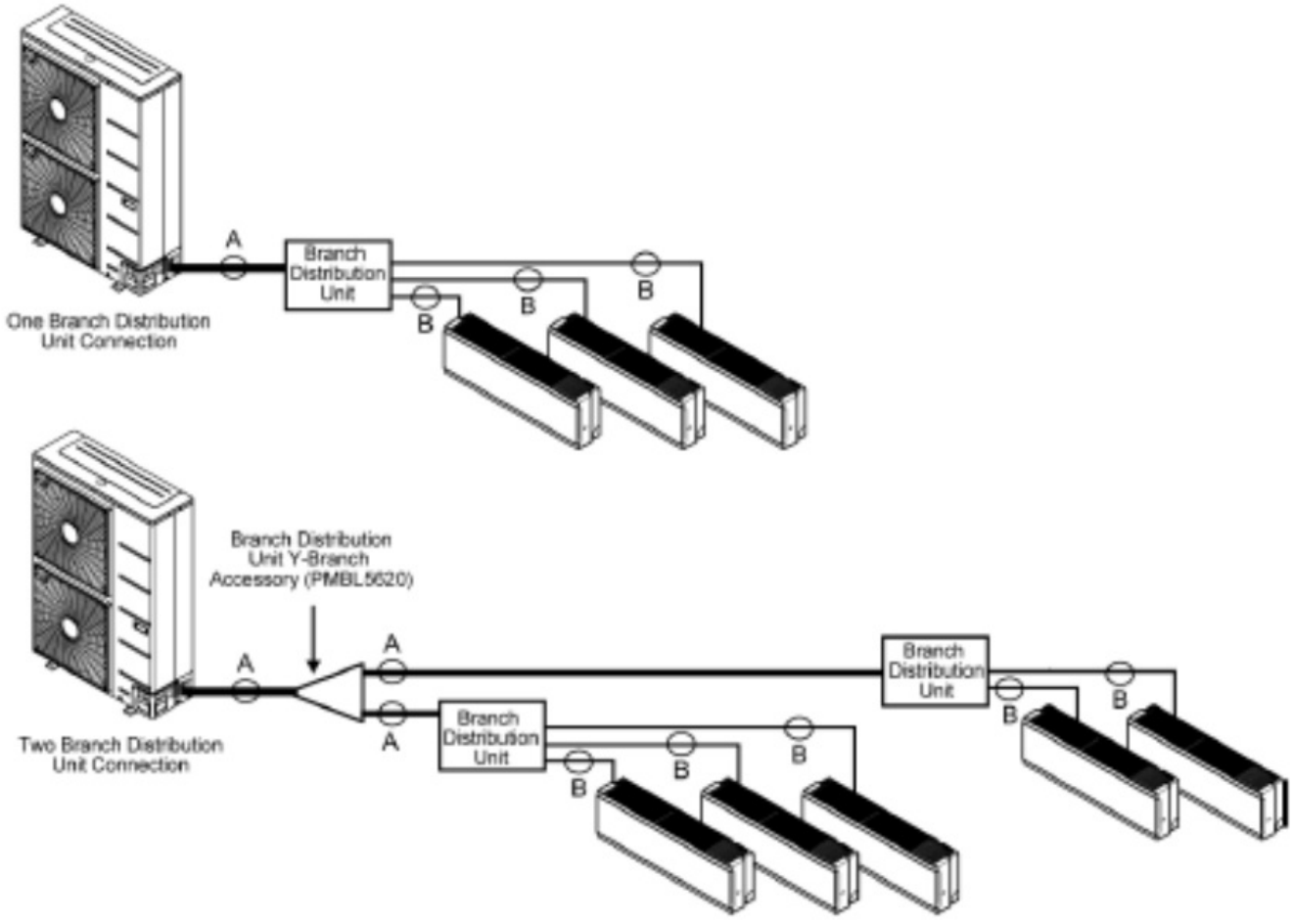


Multi F MAX with LGRED Outdoor Unit Refrigerant Piping System Limitations.

Pipe Length **(ELF = Equivalent Length of pipe in Feet)**	**Total piping length (ΣA + ΣB)**		≤475.7 feet
	Main pipe (Outdoor Unit to Branch Distribution Units: A)	**Minimum for Each (A) Piping Segment**	16.4 feet
		Maximum (ΣA)	≤180.4 feet
	Total branch piping length (ΣB)		≤295.3 feet
	Branch pipe (Branch Distribution Units to Indoor Units: B)	**Minimum**	16.4 feet
		Maximum	≤49.2 feet

Elevation Differential (All Elevation Limitations are Measured in Actual Feet)	**If outdoor unit is above or below indoor unit (h1)**	≤98.4 feet
	Between the farthest two indoor units (h2)	≤49.2 feet
	Between branch distribution unit and farthest connected indoor unit(s) (h3)	≤32.8 feet
	Between branch distribution units (h4)	≤49.2 feet

Installing the Unit



Multi F MAX with LGRED Piping Sizes.

Piping	Main Pipe A (inch)	Branch Pipe B

Liquid	Ø3/8	Depends on the size of the indoor unit piping.
Vapor	Ø3/4	

For continual product development, LG reserves the right to change specifications without notice.
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Frequently Asked Questions

- **Q: Can I use this product in extreme temperatures?**
  A: The operating range of the product is suitable for a wide range of temperatures, but it’s recommended to avoid extreme conditions outside the specified range.
- **Q: How do I know if I need additional refrigerant charge?**
  A: Refer to the provided guidelines based on piping length for determining if additional refrigerant charge is required.
- **Q: What is the maximum overcurrent protection for this unit?**
  A: The unit has a maximum overcurrent protection (MOP) of 40A.

Documents / Resources

	LG KUMXA361A Outdoor Unit [pdf] Installation Guide KUMXA361A Outdoor Unit, KUMXA361A, Outdoor Unit, Unit

References

- User Manual

KUMXA361A, KUMXA361A Outdoor Unit, LG, OUTDOOR UNIT, Unit

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