

Job Name/Location:

Tag No.:

Date: _____

For:	File	Resubmit
	Approval	Other _____

PO No.: _____

Architect: _____ **GC:** _____

Engr: _____ **Mech:** _____

Rep: _____
(Company) (Project Manager)

KSUAB181A
R32 Single Zone High Efficiency Wall Mounted
Outdoor Unit (ODU) - KUSAB181A, Indoor Unit (IDU) - KNUAB181A



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 Heating Nominal Test Conditions:
Cooling Nominal Test Conditions: Indoor: 70°F DB / 60°F WB
Indoor: 80°F DB / 67°F WB Outdoor: 47°F DB / 43°F WB
Outdoor: 95°F DB / 75°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.) ²	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 ODUs
- 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
- R32 Alarm Kit - PLDCAA0S
- Low Ambient Wind Baffle (Cooling to 0°F) - ZLABGP04B

Controller Options:

- MultiSITE™ CRC* Controllers
- Standard III Remote Controllers
- Dry Contacts
- AC Smart 5 Central Controller
- LonWorks® Gateway
- MultiSITE Comm. Mgr.
- AC Smart BACnet® Gateway

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]) ³	55 / 55
IDU Sound Pressure (Cooling (H/M/L/SL) (±1 dB[A]) ³	47 / 42 / 37 / 31
Heating (H/M/L) (±1 dB[A]) ³	47 / 42 / 37
ODU Net / Shipping Weight (lbs.)	127.9 / 145.5
IDU Net / Shipping Weight (lbs.)	26.0 / 31.8
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 Multi F systems.
- BACnet® is a registered trademark of ASHRAE. LonWorks® is a trademark of Echelon Corporation.



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.)

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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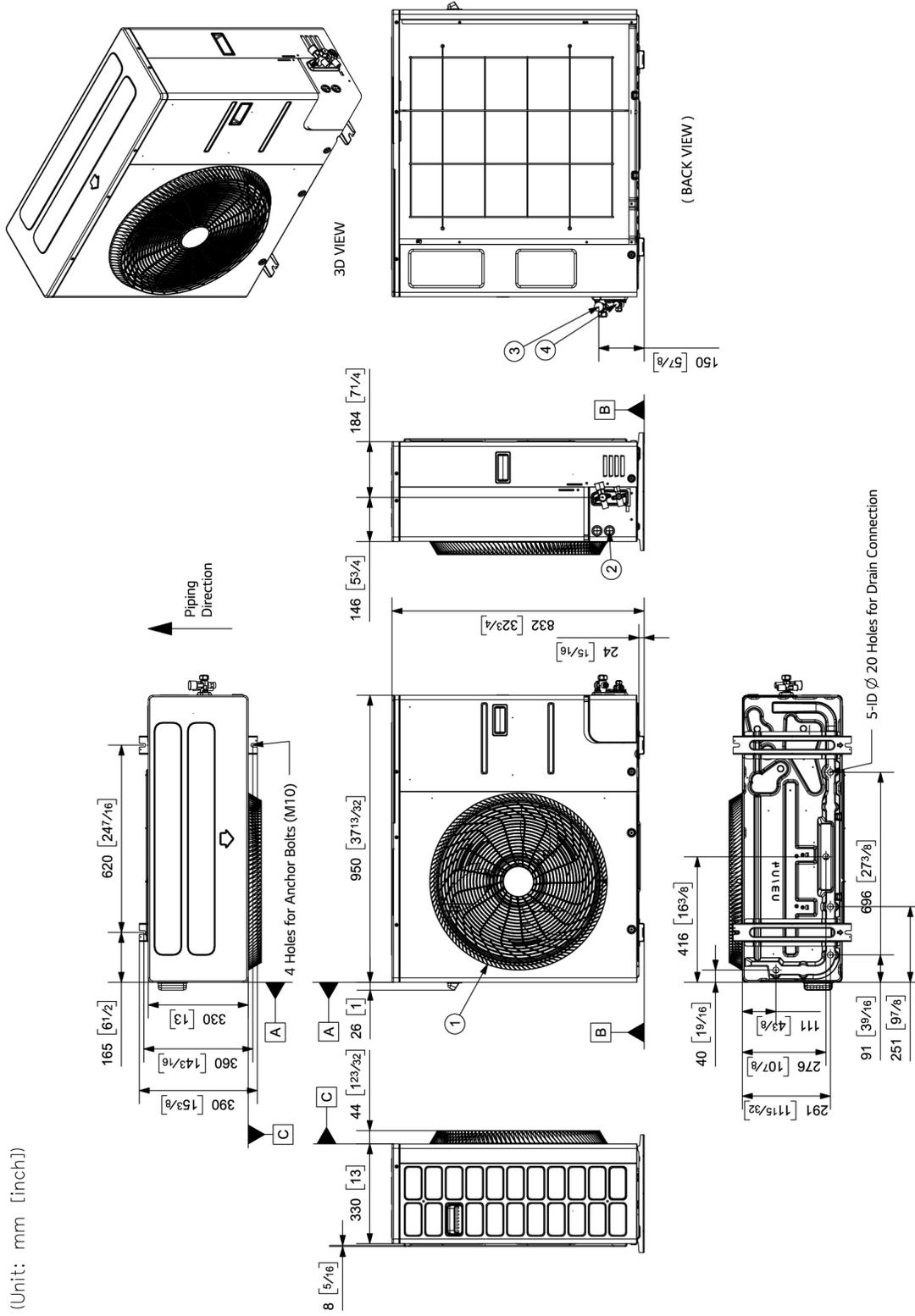
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(Unit: mm [inch])

Symbols		Note	
—	Piping Direction	1. Unit should be installed in compliance with the installation manual in the product box. 2. Unit should be grounded in accordance with the local regulations or applicable national codes. 3. All electrical components and materials to be supplied from the site must comply with the local regulations or international codes. 4. Electrical characteristics chapter should be considered for electrical work and design. Especially the power cable and circuit breaker should be selected in accordance with that.	
—A	Datum line		
4	Liquid pipe connection		Ø 9.52 (3/8)
3	Gas pipe connection		Ø 15.88 (5/8)
2	Power and communication Cable Hole	-	
1	Air Outlet	-	
No.	Part Name	No.	Description

