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
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.)[2]	9.8 / 114.8
Piping Length (no add'l refrig., 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
☐ 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

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:

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 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.
   a. Power Supply Wiring to ODU: (No. x AWG): 3 x 14 for 9/12k, 3 x 12 for 18k units.
   b. Power Wiring / Communication Wiring from Outdoor Unit to Indoor Unit: (No. x AWG) 3 x 14 / 2 x 18.
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 single zone 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.)

AHRI CERTIFIED® www.ahridirectory.org
Unitary Small HP
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

For a complete list of available accessories, contact your LG representative.
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KSUAB181A

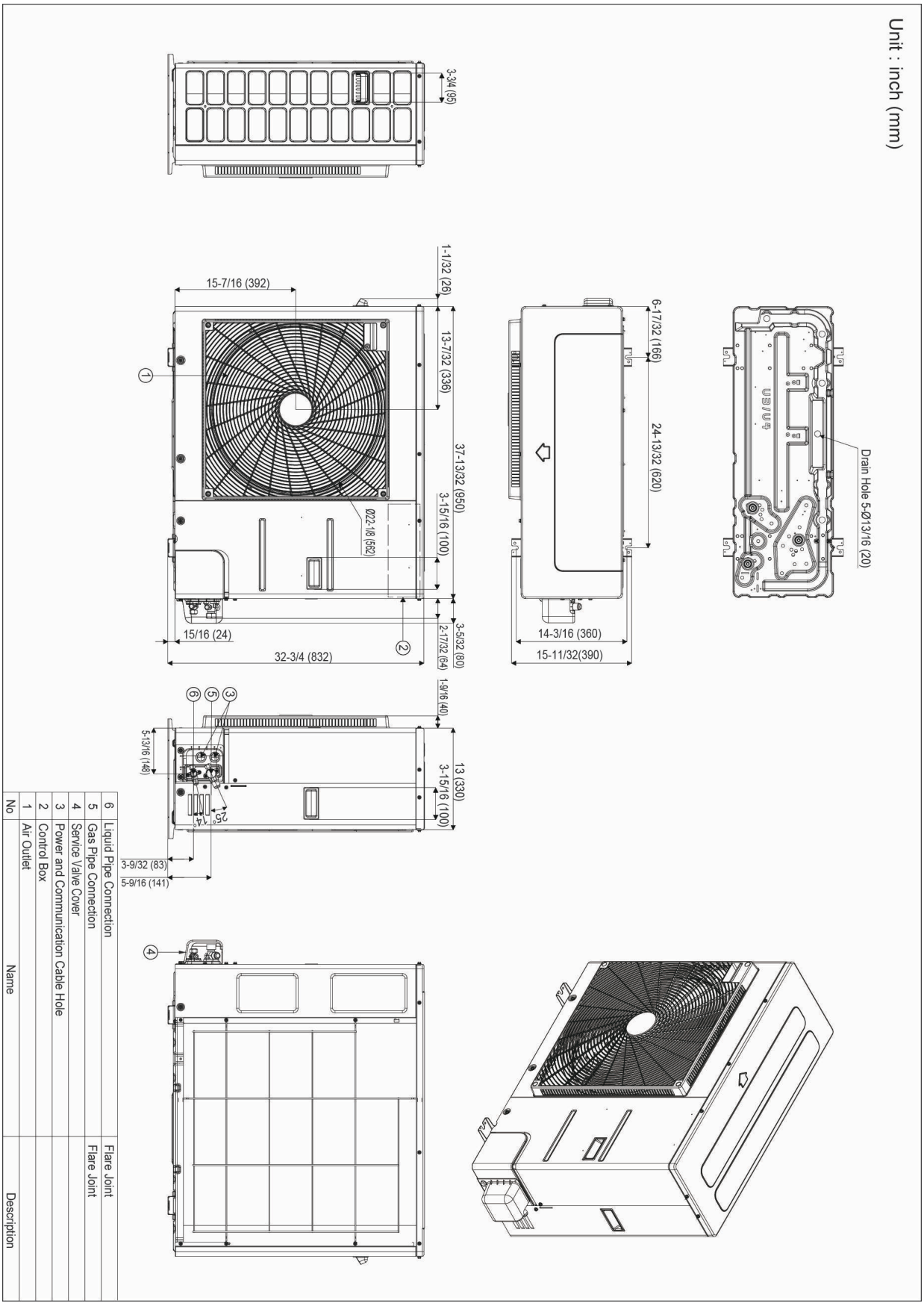
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No	Name	Description
1	Air Outlet	
2	Control Box	
3	Power and Communication Cable Hole	
4	Service Valve Cover	
5	Gas Pipe Connection	Flare Joint
6	Liquid Pipe Connection	Flare Joint

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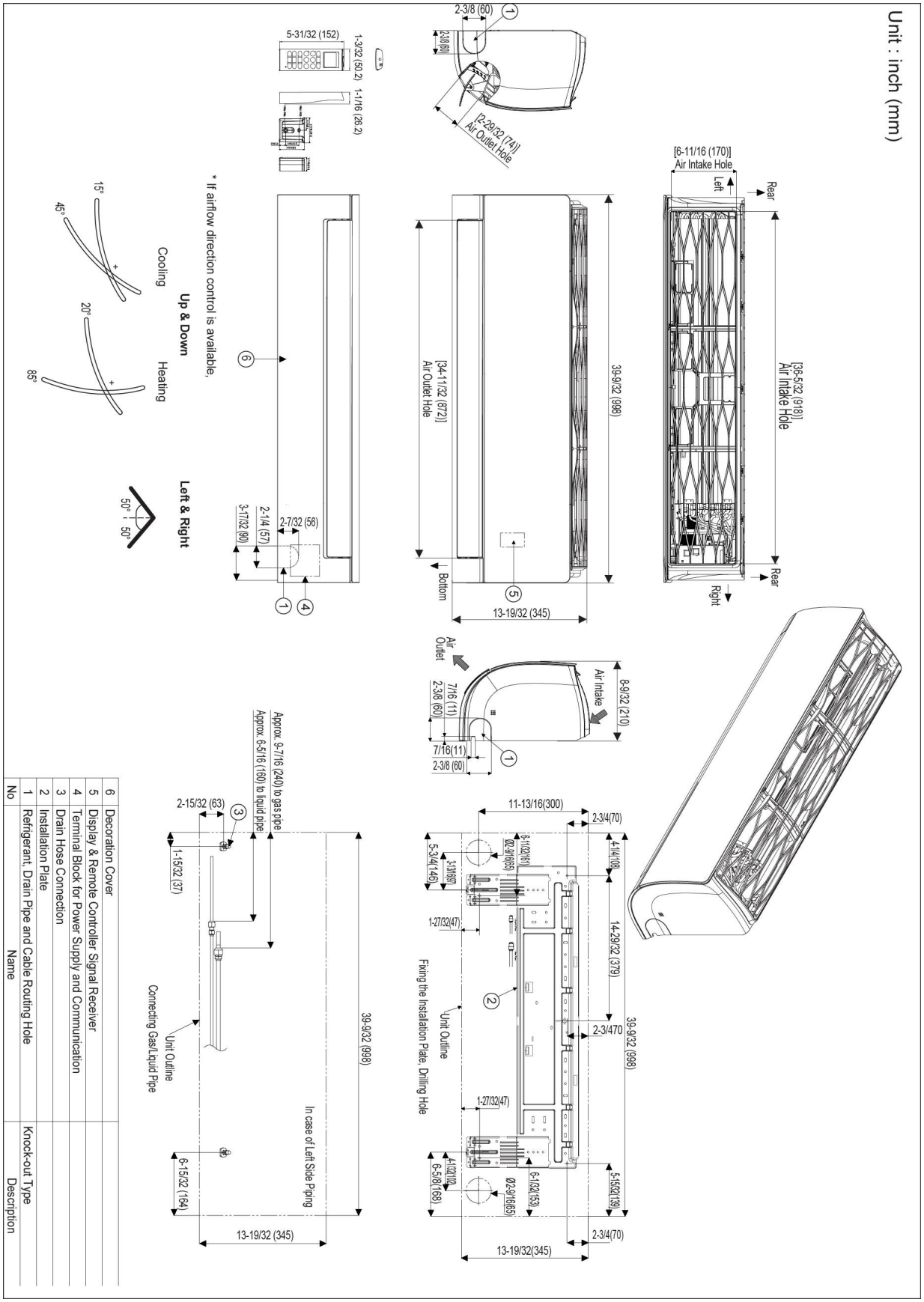
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No	Name	Description
6	Decoration Cover	
5	Display & Remote Controller Signal Receiver	
4	Terminal Block for Power Supply and Communication	
3	Drain Hose Connection	
2	Installation Plate	
1	Refrigerant, Drain Pipe and Cable Routing Hole	Knock-out Type

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