

11/13/2023

HVAC SUBMITTAL REVIEW COMMENTS

#21068: Southside HS JR Additions

General Contractor: Nabholz
 HVAC Contractor: Comfort Systems

- | | |
|--|-----------------------|
| 1. Duct: | Approved |
| 2. Duct Sealant | Approved |
| 3. Kitchen Hood Systems | Approved |
| 4. Mini-Splits | Approved as corrected |
| a. Provide means for control by DDC system on ceiling cassettes. | |
| b. Coordinate electrical changes for DSCU1-1, 2-1, 2-2. | |
| 5. Residential Kitchen Hoods | Approved |
| 6. Welding Exhaust Drops | Approved |
| 7. Pipe Hanging and Support | Approved |
| 8. Identification | Approved |
| 9. TAB | Approved |
| 10. Insulation | Approved |
| 11. Controls | Approved |
| 12. Refrigerant Piping | Approved |
| 13. Take off fitting | Approved |
| 14. Fans | Approved |
| 15. Air Devices | Approved as corrected |
| a. V – provide insect screen. | |
| 16. Fabric Duct | Revise and Resubmit |
| a. Cfm's and lengths don't match plans. | |

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
P.O. Box 16620
Little Rock, AR 72231
Phone 501-834-3320
Fax 501-834-5416

Date: 8/14/2023
Return Request: 8/24/2023
Project: Southside HS & JH Additions
Supplier: Airetech
Manufacturer: LG
Submittal: 23 00 00-02
Submittal Number: Mini-Split Systems
Drawing # and Installation: Mechanical Drawings

ARCHITECT

Lewis Architects Engineers
11225 Huron Lane, Suite 104
Little Rock, AR 72211
501-223-9302

ENGINEER

Lewis Architects Engineers
11225 Huron Lane, Suite 104
Little Rock, AR 72211
501-223-9302

GENERAL CONTRACTOR

Nabholz
612 Garland St.
Conway, AR 72032
501-505-5800

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Rd.
N. Little Rock, AR 72117
501-834-3320

Notes:

**CSUSA PROJECT NO.
23-8009**

dpierce@comfortar.com

9924 Landers Rd.
No. Little Rock, AR 72117



SUBMITTAL DATA

EQUIPMENT: Mini-Split Systems

SPEC SECTION: No Spec Section

TAGS: DSFC/DSCU1-1,1-2,1-3,1-4,1-5,1-6,2-1 & 2-2

PROJECT: Southside High School and Junior High Additions

LOCATION: Batesville, AR

ENGINEER:



CONTRACTOR:



DATE: 7/26/2023

SUBMITTED BY: Forrest Moseley
forrest@airetechcorp.com
501-425-6112

Date: 7/24/2023

For: File Resubmit
 Approval Other_____

PO No.:

Architect: Lewis Architects and Engineers

GC: TBD

Engr: Lewis Architects and Engineers

Mech: Comfort Systems USA

Rep: Airetech Corporation

Nick Moore

(Company)

(Project Manager)

LS243HLV3

Single Zone Extended Piping Wall Mount

Outdoor Unit (ODU) - LSU243HLV3, Indoor Unit (IDU) - LSN243HLV3

Performance:

Cooling:

Cooling Capacity (Min~Rated~Max) (Btu/h)	3,070~22,000~30,000
SEER2	22
EER2	13

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max) (Btu/h)	3,070~26,000~36,200
HSPF2	9.5
Max. Heating @ Indoor 70°F DB	
Outdoor 19°F DB / 17°F WB	27,360 (105%)
Outdoor 6°F DB / 5°F WB	23,700 (91%)
Outdoor -3°F DB / -4°F WB	21,170 (81%)

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)	14.81
Compressor (A)	14.41
Fan Motor (A)	0.4

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

Total Power Input:

Cooling Power Input (kW)	1.69
Heating Power Input (kW)	2.08

Piping:

Liquid Line (in., O.D.)	ø3/8 Flare
Vapor Line (in., O.D.)	ø5/8 Flare
Additional Refrigerant (oz./ft.)	0.38
Min. / Max. Pipe Length (ft.) ²	9.8 / 164
Piping Length (no add'l refriger., ft.)	24.6
Max. Elevation (ft.)	98.4

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)
- Smart Diagnosis
- Washable Filter
- Self-cleaning indoor coil
- Built-in base pan heater
- Built-in Wi-Fi via Smart ThinQ app

Optional Accessories:

- Low Ambient Wind Baffle (Cooling operation to 0°F) - ZLABGP04A
- MultiSITE Comm. Mgr. - PBACNBTR0A
- PI-485 - PMNFP14A1
- Simple Remote Controller - PREMT000
- Dry Contact - PDRYCB100/300/400
- Premium Remote Controller - PREMTA000
- AC Smart 5 - PACS5A000
- MultiSITE™ CRC1 - PREMTBVC0
- ACP 5 - PACP5A000
- MultiSITE CRC1+ - PREMTBVC1

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)	64 ~ 86

Electrical:

Power Supply (V/Hz/Ø)	208-230/60/1
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System Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	4.85
ODU Sound Pressure (Cooling / Heating) (±1 dB[A]) ³	55 / 56
IDU Sound Pressure Cooling (H/M/L/Sleep) (±1 dB[A]) ³	49 / 44 / 40 / 30
Heating (H/M/L) (±1 dB[A]) ³	49 / 44 / 40
ODU Net / Shipping Weight (lbs.)	135.4 / 147.7
IDU Net / Shipping Weight (lbs.)	36.6 / 44.5
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
ODU Max. Air Flow Rate (CFM)	2,119
IDU Air Flow Cooling, Max/H/M/L (CFM)	813 / 601 / 495 / 389
Heating, Max/H/M/L (CFM)	919 / 707 / 601 / 495
Dehumidification (pts./hr.)	4.65

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 must be a minimum of 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.



LS243HLV3

Single Zone Extended Piping Wall Mount

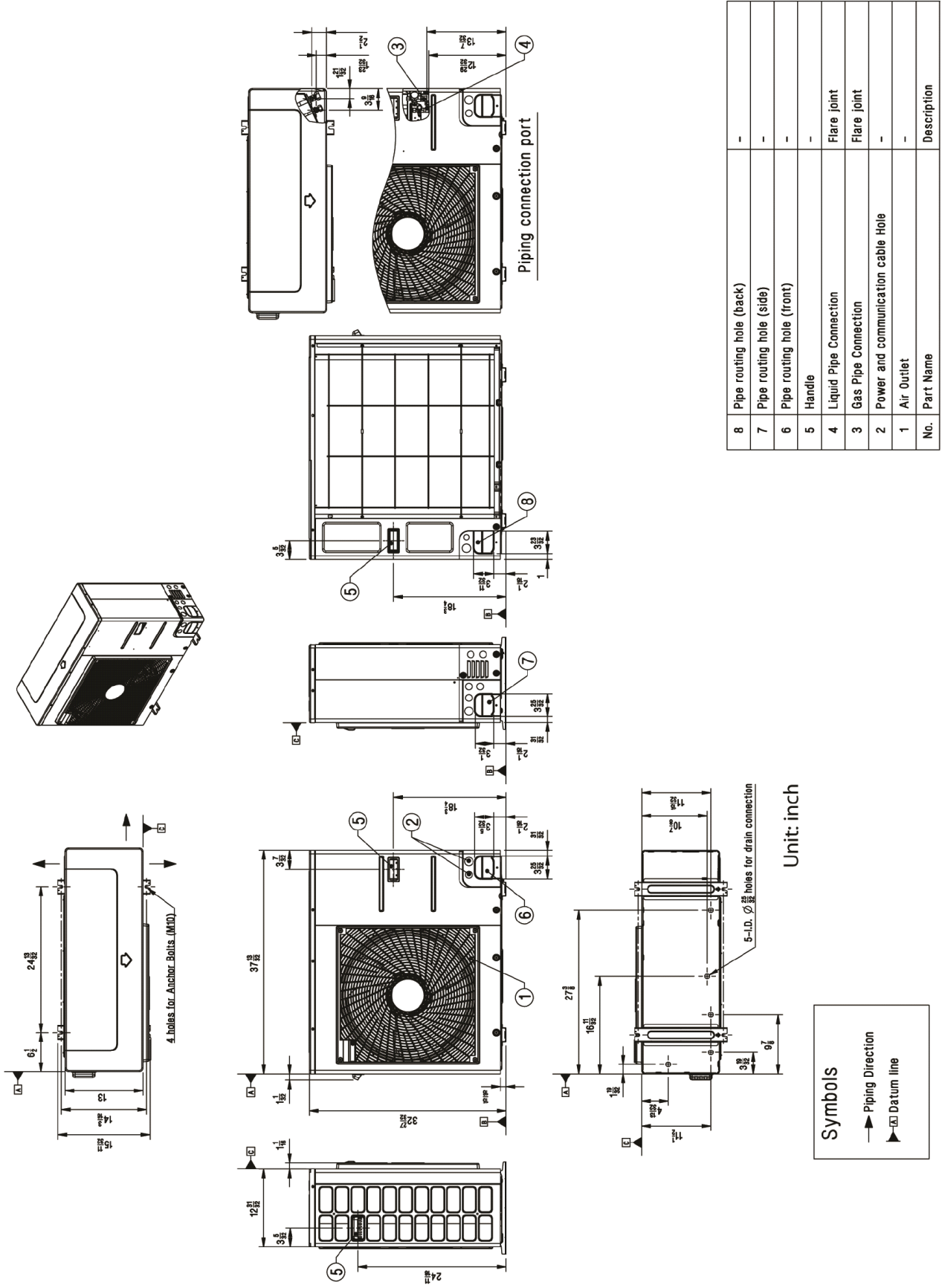
Outdoor Unit (ODU) - LSU243HLV3, Indoor Unit (IDU) - LSN243HLV3



Tag No.: _____

Date: 7/24/2023

PO No.: _____



LS243HLV3

Single Zone Extended Piping Wall Mount

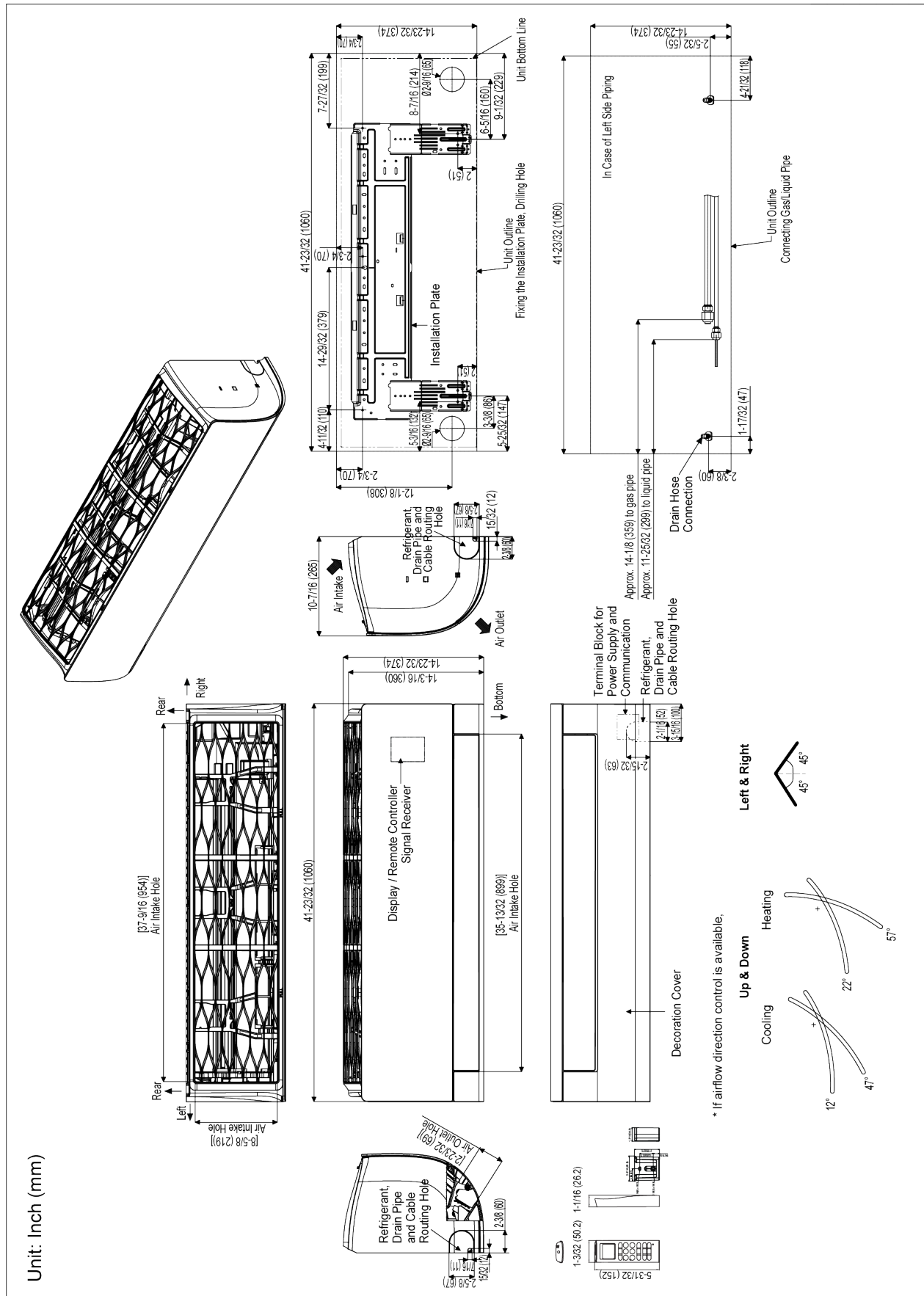
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For: File Resubmit
 Approval Other

PO No.:

Architect: Lewis Architects and Engineers

GC: TBD

Engr: Lewis Architects and Engineers

Mech: Comfort Systems USA

Rep: Airetech Corporation
 (Company)

Nick Moore
 (Project Manager)

LC128HV4

Ceiling Cassette Single Zone

Outdoor Unit (ODU) - LUU127HV Indoor Unit (IDU) - LCN128HV4

Performance:

Cooling:

Cooling Capacity (Min~Rated~Max) (Btu/h)	3,400 ~ 11,100 ~ 12,400
SEER2	19.40
EER2	12.60

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max) (Btu/h)	2,800 ~ 14,000 ~ 15,500
HSPF2	10.35
Max. Heating @ Indoor 70°F DB	11900
Outdoor 17°F DB	10700
Outdoor 5°F DB	9280
Outdoor -4°F DB	

HSPF - Heating Seasonal Performance Factor

Electrical:

Power Supply (V/Hz/Ø)	208-230/60/1
MOP (A)	15
MCA (A)	12.3
Cooling Rated Amps (A)	10.05
Heating Rated Amps (A)	10.05
Compressor (A)	9.0
Fan Motor (IDU + ODU) (A)	1.05
Cooling Power Input (kW)	0.88
Heating Power Input (kW)	1.19

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

Piping:

Liquid (in., O.D., Connection Size/Pipe Size)	1/4 / 1/4
Vapor (in., O.D., Connection Size/Pipe Size)	3/8 / 3/8
Additional Refrigerant (oz./ft.)	0.22
Max. Pipe Length (ft.) ²	66
Piping Length (no add'l refrig., ft.)	25
Max. Elevation (ft.)	49

Features:

- Inverter (Variable Speed Compressor)
- Internal Condensate Pump
- Swirl Wind
- Jet Cool
- IDU compatible with Multi F ODUs
- Auto Restart
- Auto Changeover
- Ultra-quiet Turbo Fan
- Optional Wi-Fi Control

Required Accessories:

- Cassette Grille - PT-QCHW0 or PT-UQC

Optional Accessories:

- Simple Controller with Mode (White) - PREMT000
- MultiSITE™ CRC1 / CRC1+ - PREMTBVC0 / PREMTBVC1
- PI-485 - PMNFP14A1
- Ventilation Kit³ - PTVK430
- Wi-Fi Module - PWFMD200
- Low Ambient Wind Baffle (Cooling operation to -4°F) - ZLABGP01A



Operating Range:

Outdoor Unit:

Cooling (°F DB)	0 - 118
Heating (°F WB)	-4 ~ +64

Indoor Unit:

Cooling (°F WB)	57 ~ 77
Heating (°F DB)	59 ~ 81

System Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	2.43
IDU Sound Pressure (H/M/L) (±3 dB[A]) ³	36/35/32
ODU Sound Pressure Max. (Cooling / Heating) (±3 dB[A]) ³	49/52
ODU Net / Shipping Weight (lbs.)	82 / 89
IDU Net / Shipping Weight (lbs.)	31 / 40
Grille Net / Shipping Weight (lbs.)	7 / 9

Fan:

ODU Type	Propeller
IDU Type	Turbo
Fan Speeds (Fan/Cool/Heat)	4 / 5 / 4
Quantity (ODU + IDU)	(1 + 1)
Motor/Drive	Brushless Digitally Controlled/Direct
ODU Air Flow Rate (CFM)	988
IDU Air Flow (CFM H/M/L)	335 / 283 / 247
Dehumidification (pts./hr.)	2.47

Notes:

1. Acceptable operating voltage: 187V-253V.
2. Piping lengths are equivalent.
3. Must comply with applicable codes for fire isolation dampers.
4. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
5. All communication/power cable to be minimum 18 American wire gauge (AWG), 4-conductor, stranded, shielded and must comply with applicable local and national code.
6. This unit comes with a dry helium charge.
7. Nominal data is rated 0 ft. above sea level, with 25 ft. of refrigerant line and a 0 ft. level difference between outdoor and indoor units.
8. Power wiring cable size must comply with the applicable local and national code.
9. Must follow installation instructions in the applicable LG installation manual.
10. Multi-compatible IDUs include socket adapters for refrigerant pipe connection with Single Zone systems.



LC128HV4

Ceiling Cassette Single Zone

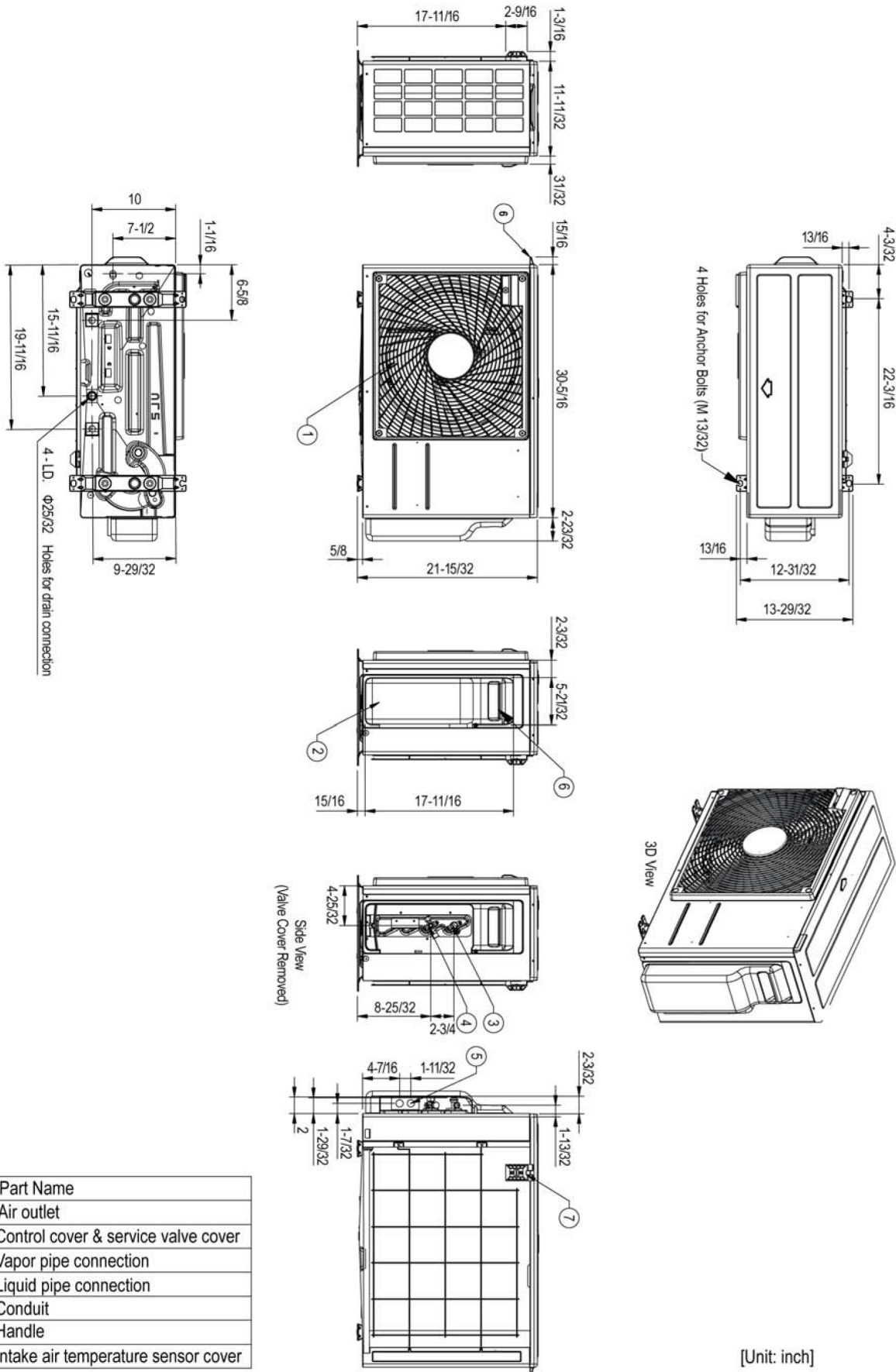
Outdoor Unit (ODU) - LUU127HV Indoor Unit (IDU) - LCN128HV4



Tag No.: _____

Date: 7/24/2023

PO No.: _____



No.	Part Name
1	Air outlet
2	Control cover & service valve cover
3	Vapor pipe connection
4	Liquid pipe connection
5	Conduit
6	Handle
7	Intake air temperature sensor cover

[Unit: inch]

LC128HV4

Ceiling Cassette Single Zone

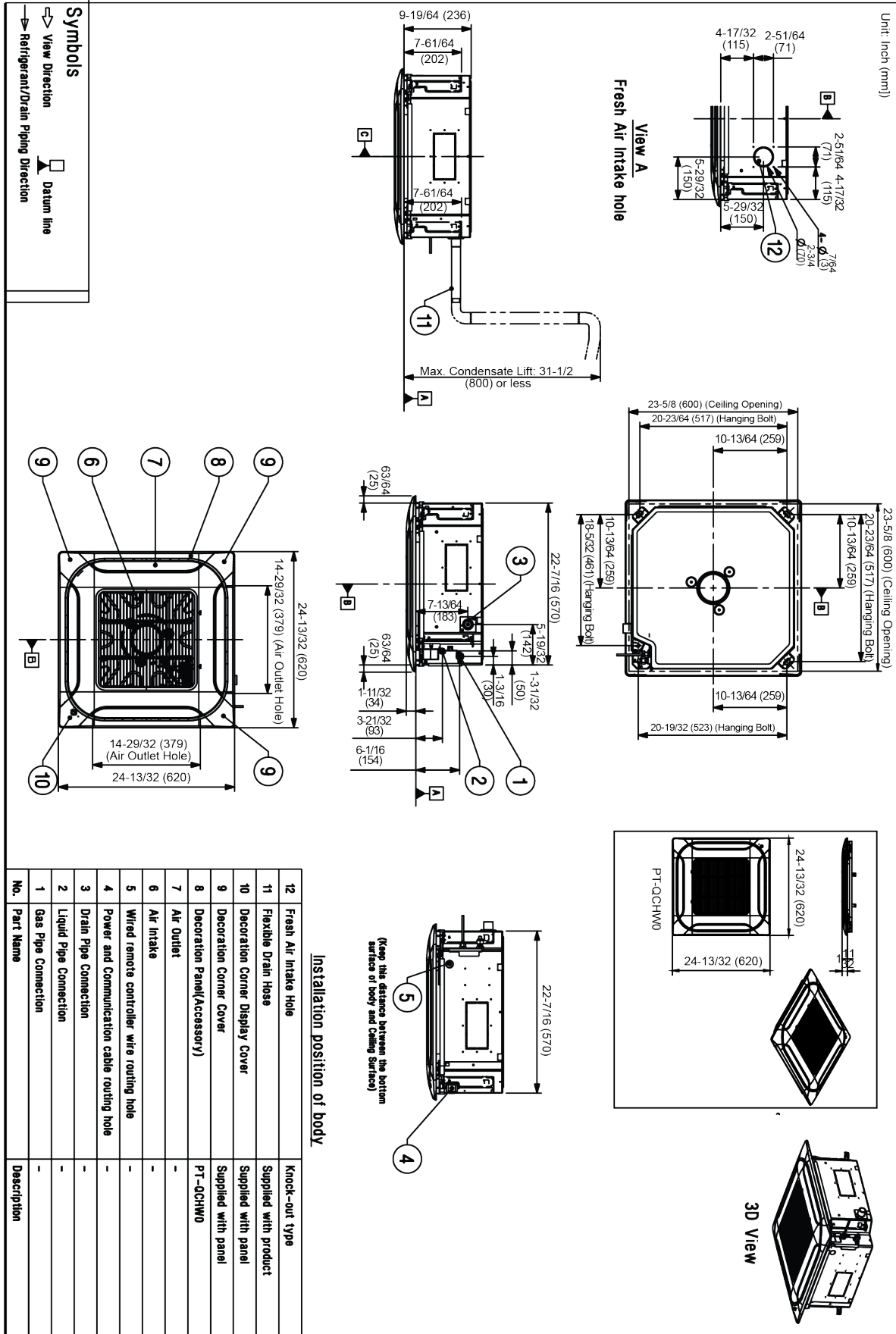
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Mech: Comfort Systems USA

Rep: Airetech Corporation
 (Company)

Nick Moore
 (Project Manager)

LC098HV4

Ceiling Cassette Single Zone

Outdoor Unit (ODU) - LUU097HV Indoor Unit (IDU) - LCN098HV4

Performance:

Cooling:

Cooling Capacity (Min~Rated~Max) (Btu/h)	3,600 ~ 9,000 ~ 9,900
SEER2	20.20
EER2	13.65

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max) (Btu/h)	4,400 ~ 11,000 ~ 12,100
HSPF2	10.55
Max. Heating @ Indoor 70°F DB	11000
Outdoor 17°F DB	10100
Outdoor 5°F DB	9040
Outdoor -4°F DB	

HSPF - Heating Seasonal Performance Factor

Electrical:

Power Supply (V/Hz/Ø)	208-230/60/1
MOP (A)	15
MCA (A)	11.9
Cooling Rated Amps (A)	9.65
Heating Rated Amps (A)	9.65
Compressor (A)	9.0
Fan Motor (IDU + ODU) (A)	0.65
Cooling Power Input (kW)	0.66
Heating Power Input (kW)	0.83

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

Piping:

Liquid (in., O.D., Connection Size/Pipe Size)	1/4 / 1/4
Vapor (in., O.D., Connection Size/Pipe Size)	3/8 / 3/8
Additional Refrigerant (oz./ft.)	0.22
Max. Pipe Length (ft.) ²	66
Piping Length (no add'l refrig., ft.)	25
Max. Elevation (ft.)	49

Features:

- Inverter (Variable Speed Compressor)
- Internal Condensate Pump
- Swirl Wind
- Jet Cool
- IDU compatible with Multi F ODUs
- Auto Restart
- Auto Changeover
- Ultra-quiet Turbo Fan
- Optional Wi-Fi Control

Required Accessories:

- Cassette Grille - PT-QCHW0 or PT-UQC

Optional Accessories:

- Simple Controller with Mode (White) - PREMT00U
- MultiSITE™ CRC1 / CRC1+ - PREMTBVC0 / PREMTBVC1
- PI-485 - PMNFP14A1
- Ventilation Kit³ - PTVK430
- Wi-Fi Module - PWFMD200
- Low Ambient Wind Baffle (Cooling operation to -4°F) - ZLABGP01A



Operating Range:

Outdoor Unit:

Cooling (°F DB)	0 - 118
Heating (°F WB)	-4 ~ +64

Indoor Unit:

Cooling (°F WB)	57 ~ 77
Heating (°F DB)	59 ~ 81

System Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	2.43
IDU Sound Pressure (H/M/L) (±3 dB[A]) ³	36/33/30
ODU Sound Pressure Max. (Cooling / Heating) (±3 dB[A]) ³	47/51
ODU Net / Shipping Weight (lbs.)	82 / 89
IDU Net / Shipping Weight (lbs.)	31 / 37
Grille Net / Shipping Weight (lbs.)	7 / 9

Fan:

ODU Type	Propeller
IDU Type	Turbo
Fan Speeds (Fan/Cool/Heat)	4 / 5 / 4
Quantity (ODU + IDU)	(1 + 1)
Motor/Drive	Brushless Digitally Controlled/Direct
ODU Air Flow Rate (CFM)	988
IDU Air Flow (CFM H/M/L)	300 / 265 / 230
Dehumidification (pts./hr.)	1.6

Notes:

1. Acceptable operating voltage: 187V-253V.
2. Piping lengths are equivalent.
3. Must comply with applicable codes for fire isolation dampers.
4. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
5. All communication/power cable to be minimum 18 American wire gauge (AWG), 4-conductor, stranded, shielded and must comply with applicable local and national code.
6. This unit comes with a dry helium charge.
7. Nominal data is rated 0 ft. above sea level, with 25 ft. of refrigerant line and a 0 ft. level difference between outdoor and indoor units.
8. Power wiring cable size must comply with the applicable local and national code.
9. Must follow installation instructions in the applicable LG installation manual.
10. Multi-compatible IDUs include socket adapters for refrigerant pipe connection with Single Zone systems.



LC098HV4

Ceiling Cassette Single Zone

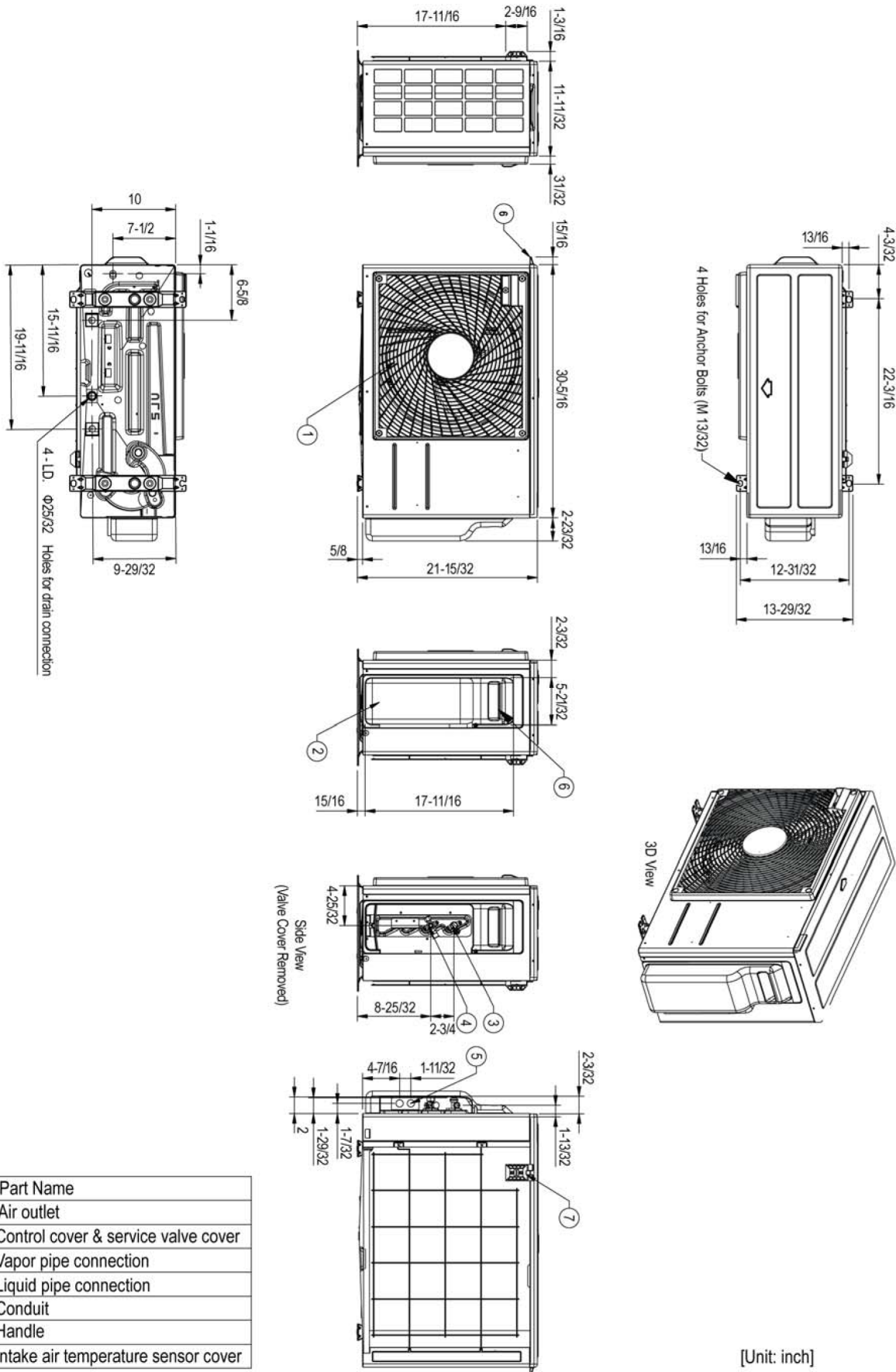
Outdoor Unit (ODU) - LUU097HV Indoor Unit (IDU) - LCN098HV4



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No.	Part Name
1	Air outlet
2	Control cover & service valve cover
3	Vapor pipe connection
4	Liquid pipe connection
5	Conduit
6	Handle
7	Intake air temperature sensor cover

[Unit: inch]

LC098HV4

Ceiling Cassette Single Zone

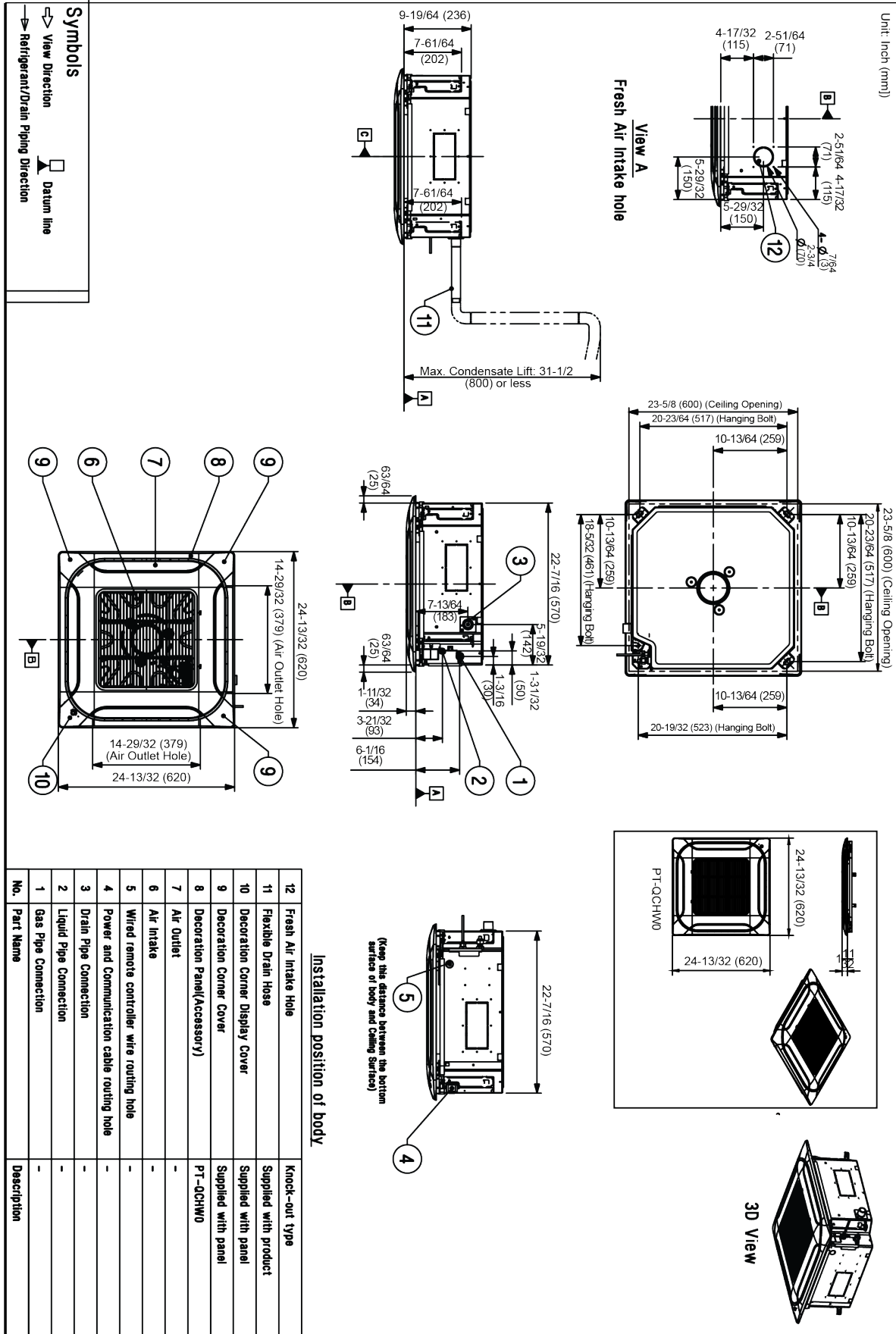
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 Approval Other_____

PO No.:

Architect: Lewis Architects and Engineers

GC: TBD

Engr: Lewis Architects and Engineers

Mech: Comfort Systems USA

Rep: Airetech Corporation
 (Company)

Nick Moore
 (Project Manager)

LC489HHV
 Single-Zone 3x3 Four-Way Ceiling Cassette with LGRED®
 Outdoor Unit (ODU) - LUU480HHV, Indoor Unit (IDU) - LCN489HV



Performance:

Cooling:

Cooling Capacity (Min~Rated~Max, Btu/h)	19,200~ 48,000~53,000
SEER2	17.50
EER2	12.50

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max, Btu/h)	19,000~52,000~61,000
HSPF2	10.65
Max. Heating @ Indoor 70°F DB (Btu/h)	54,500
Outdoor 17°F WB	40,500
Outdoor 5°F WB	43,740
Outdoor -4°F WB	35,980

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)	40
MCA (A)	32
Cooling / Heating Rated Amps (A)	17.0 / 17.1
Compressor (A)	22
Fan Motor (IDU + ODU) (A)	1.3 + (1.6 x 2)
Cooling Power Input (Min~Rated~Max, kW)	1.09~3.84~5.82
Heating Power Input (Min~Rated~Max, kW)	1.40~3.85~6.20
Locked Rotor Amps (A)	33

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.)	0.43
Min. / Max. Pipe Length (ft.) ²	16.4 / 246
Piping Length (no add'l refig., ft.)	24.9
Max. Elevation (ft.)	98.4

Features:

- Inverter (Variable Speed Compressor)
- Internal Condensate Pump
- Jet Cool / Jet Heat
- Auto Restart
- Auto Changeover
- Ultra-quiet Turbo Fan
- Night Quiet Function
- Optional Wi-Fi Control
- Drain Pan Heater
- Swirl Wind
- Direct / Indirect Wind
- Smart Mode
- Refresh Mode

Included Accessories:

- Wireless Remote Controller - AKB75735404

Required Accessories:

- Grille Kit - PT-AAGW0

Optional Accessories:

- Premium Controller - PREMTA000
- MultiSITE™ CRC1 - PREMTBVC0
- MultiSITE CRC1+ - PREMTBVC1
- MultiSITE Comm. Mgr. - PBACNBTR0A
- PI-485 - PMNFP14A1
- Dry Contact - PDRVCB320
- LonWorks® Gateway - PLNWKB100
- AC Smart 5 BACnet® Gateway - PACS5A000
- ACP 5 BACnet Gateway - PACP5A000
- Outside Air Flange - PTVK430
- Wi-Fi Module - PWFMD200
- Low Ambient Wind Baffle (Cooling operation to -4°F) - ZLABGP04A¹⁰

Operating Range:

Outdoor Unit:

Cooling (°F DB)	5 ~ 118
Heating (°F WB)	-13 ~ +64

Indoor Unit:

Cooling (°F WB)	57 ~ 77
Heating (°F DB)	59 ~ 81

System Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	9.26
ODU Sound Pressure (Cooling / Heating) (±1 dB[A]) ³	54 / 56
IDU Sound Pressure (H/M/L/SL) (±1 dB[A]) ³	46 / 43 / 41 / 39
ODU Net / Shipping Weight (lbs.)	210.9 / 234.1
IDU Net / Shipping Weight (lbs.)	59.5 / 70.5
Grille Net Weight (lbs.)	15.6
Heat Exchanger Coating	GoldFin™

Fan:

ODU Type	Propeller
IDU Type	Turbo
Fan Speeds (Fan/Cool/Heat)	4 / 5 / 5
Quantity (ODU + IDU)	2 + 1
Motor/Drive	Brushless Digitally Controlled/Direct
Maximum ODU Air Volume (CFM)	4,238
IDU Air Flow (CFM Max./H/M/L)	1,483 / 1,130 / 953 / 812
Dehumidification (pts./hr.)	9.74

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 must be a minimum of 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. This 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. If the optional low ambient wind baffle (ZLABGP04A) is used, one wind baffle is required for each ODU fan.

BACnet® is a registered trademark of ASHRAE. LonWorks® is a trademark of Echelon Corporation.



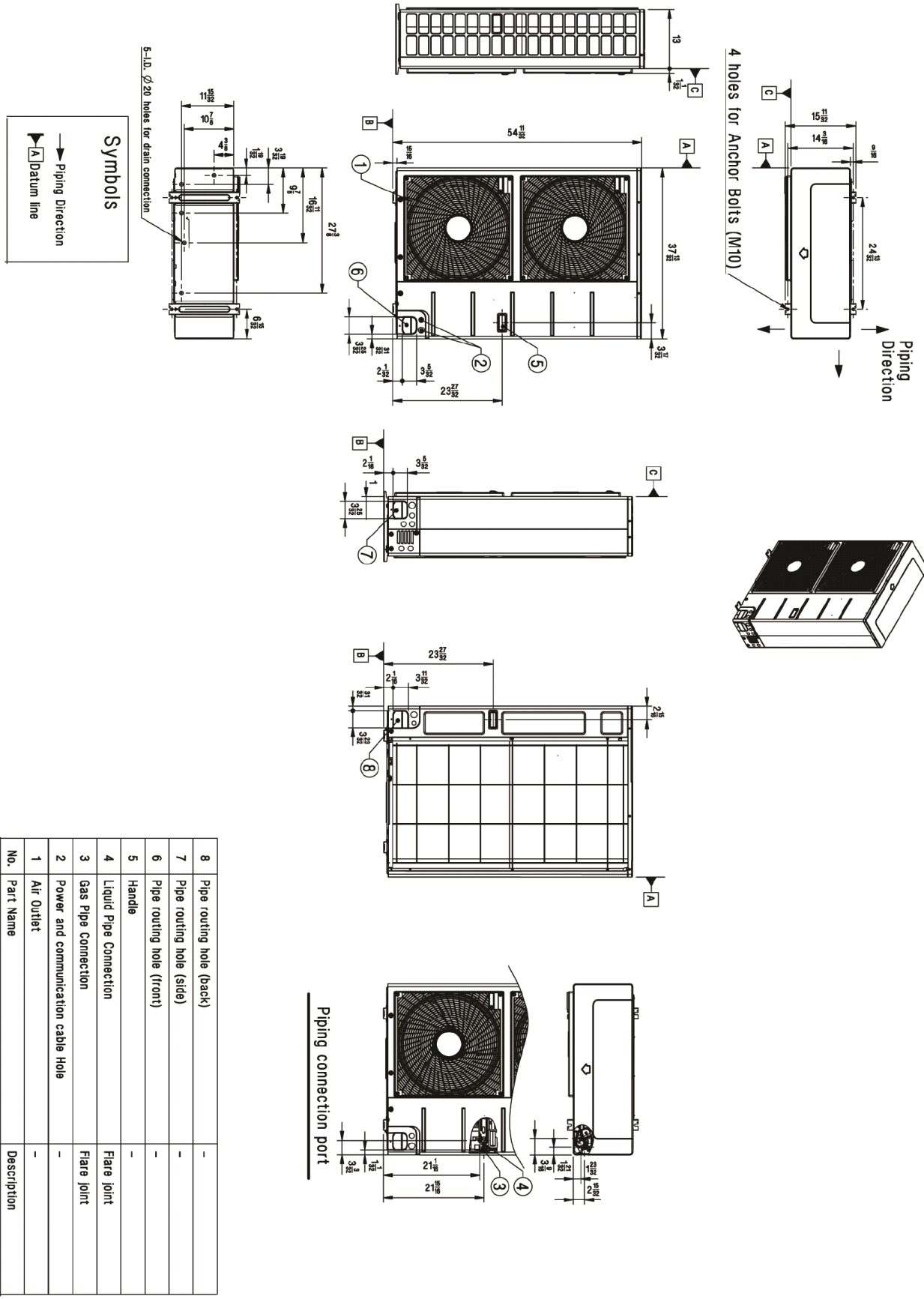
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 Single-Zone 3x3 Four-Way Ceiling Cassette with LGRED®
 Outdoor Unit (ODU) - LUU480HHV, Indoor Unit (IDU) - LCN489HV



Tag No.: _____

Date: 7/24/2023

PO No.: _____



No.	Part Name	Description
1	Air Outlet	-
2	Power and communication cable Hole	-
3	Gas Pipe Connection	Flare joint
4	Liquid Pipe Connection	Flare joint
5	Handle	-
6	Pipe routing hole (front)	-
7	Pipe routing hole (side)	-
8	Pipe routing hole (back)	-

LC489HHV
 Single-Zone 3x3 Four-Way Ceiling Cassette with LGRED®
 Outdoor Unit (ODU) - LUU480HHV, Indoor Unit (IDU) - LCN489HV



Tag No.: _____

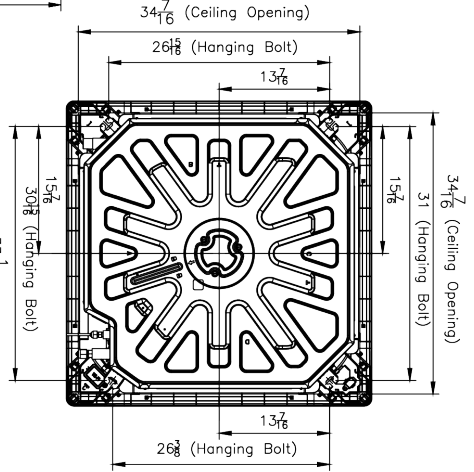
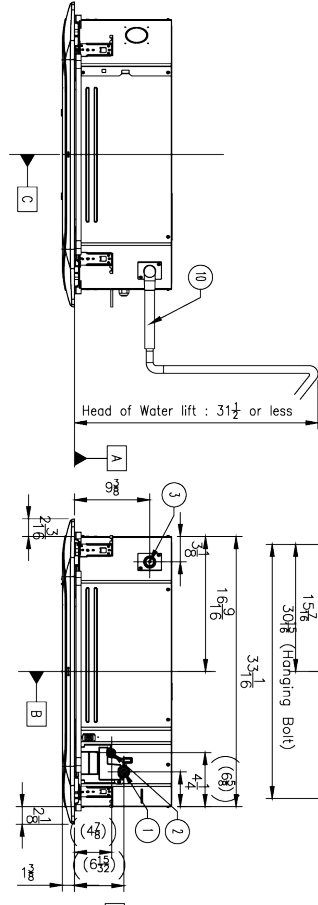
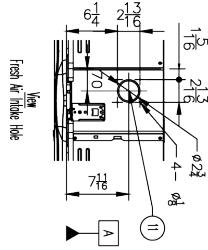
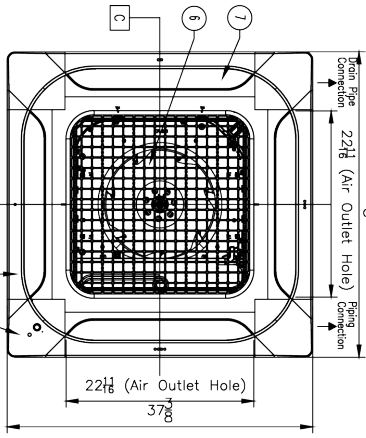
Date: 7/24/2023

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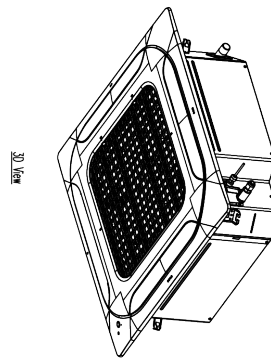
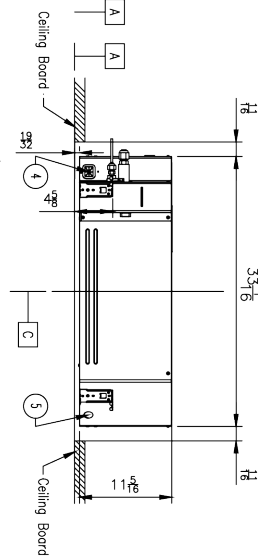
[Unit: inch]

- Note:**
1. Unit should be installed in compliance with the installation manual.
 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.

Fresh Air Intake Hole



Installation position of body
 (Keep this distance between the bottom surface of body and Ceiling surface)



11	Fresh Air Intake Hole	Knock-out type
10	Flexible Drain Hose	Supplied with product
9	Decoration Corner Cover	Supplied with panel
8	Decoration Panel (Accessory)	PF**-WA**W
7	Air Outlet	-
6	Air Inlet	-
5	Wired remote controller wire routing hole	-
4	Power and communication cable routing hole	-
3	Drain Pipe Connection	-
2	Liquid Pipe Connection	-
1	Gas Pipe Connection	-
No.	Part Name	Description