



Quality People. Building Solutions.

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Date: 5/2/2024

Return Request: 5/12/2024

Project: Little Rock West High School

Supplier: Airetech

Manufacturer: LG

Submittal: Mini Splits

Submittal Number: 23 00 00-01

Drawing # and Installation: Mechanical Drawings

ARCHITECT

Lewis Architects Engineers
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Little Rock, AR 72211
501-223-9302

ENGINEER

Lewis Architects Engineers
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GENERAL CONTRACTOR

Baldwin & Shell
1000 W. Capitol Ave.
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MECHANICAL SUBCONTRACTOR

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

Notes:

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chowell@comfortar.com

9924 Landers Rd.
No. Little Rock, AR 72117



SUBMITTAL DATA


EQUIPMENT: LG Mini Splits

SPEC SECTION:

TAGS: DSCU-1 thru 4, 6 / DSFC-1A, B, C & 2, 3, 4, 6

PROJECT: Little Rock West High School

LOCATION: Little Rock, AR

ENGINEER: **LEWIS
ARCHITECTS
ENGINEERS** 

CONTRACTOR: **COMFORT
SYSTEMS USA**

A R K A N S A S

DATE: 4/15/2024

SUBMITTED BY: Nick Moore
nick.moore@airetechcorp.com

Date: 4/12/2024

For: ☐ File ☐ Resubmit
☐ Approval Other _____

PO No.:

Architect:

GC: AIRETECH CORPORATION

Engr: LEMVRW

Mech: Comfort Systems

Rep: Airetech Corporation
(Company)Nick Moore
(Project Manager)**LS180HFV3**

Single Zone Standard Efficiency Wall Mounted

Outdoor Unit (ODU) - LSU180HFV3, Indoor Unit (IDU) - LSN180HFV3

Performance:**Cooling:**

Cooling Capacity (Min~Rated~Max) (Btu/h)	3,685 ~ 18,000 ~ 18,493
SEER2	17
EER2	12

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max) (Btu/h)	3,685 ~ 19,000 ~ 22,997
Max. Heating @ Indoor 70°F DB Outdoor 19°F DB / 17°F WB	15,270
HSPF2	8.9

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 ¹ /Hz/Ø)	208-230 / 60 / 1
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Outdoor Unit:

MOP (A)	20
MCA (A)	15
Cooling Rated Amps (A)	10.4
Heating Rated Amps (A)	10.4
Compressor (A)	10.0
Fan Motor (A)	0.4

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

Total Power Input:

Cooling Power Input (kW)	1.65
Heating Power Input (kW)	1.74

Piping:

Liquid Line (in., O.D.)	1/4
Vapor Line (in., O.D.)	1/2
Additional Refrigerant (oz./ft.)	0.26
Min. / Max. Pipe Length (ft.) ²	9.8 / 65.6
Piping Length (no add'l refriger., ft.)	24.6
Max. Elevation (ft.)	32.8

Features:

- 24-Hour on/off timer
- 2-Way (up / down) auto swing
- Auto changeover
- Auto restart
- Jet cool/Jet heat
- Condensate sensor connection
- Energy saving
- Inverter (variable speed compressor)
- Self-cleaning indoor coil
- Sleep mode
- Ultra quiet operation

Included Accessories:

- Wireless Remote Controller — AKB74955602

Optional Accessories:

- ☐ MultiSITE™ CRC1 — PREMTBVC0
- ☐ MultiSITE CRC1+ — PREMTBVC1
- ☐ Simple Remote Controller — PREMTCC00U
- ☐ Premium Remote Controller — PREMTA000
- ☐ Dry Contact - PDRYCB100/320/400

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

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**Operating Range:****Outdoor Unit:**

Cooling (°F DB)	14 to 118
Heating (°F WB)	14 to 65

Indoor Unit:

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

System Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	2.975
ODU Sound Pressure (Cooling / Heating) (±1 dB[A]) ³	55 / 55
IDU Sound Pressure Cooling (H/M/L/Sleep) (±1 dB[A]) ³	48 / 43 / 38 / 32
Heating (H/M/L) (±1 dB[A]) ³	48 / 43 / 38 / 32
ODU Net / Shipping Weight (lbs.)	98.1 / 108
IDU Net / Shipping Weight (lbs.)	26 / 30
Heat Exchanger Coating	GoldFin™

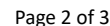
Fan:

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)	1,730
IDU Air Flow Cooling, Max/H/M/L (CFM)	689 / 512 / 459 / 371
Heating, Max/H/M/L (CFM)	653 / 565 / 477 / 388
Dehumidification (pts./hr.)	3.38

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.





LS180HFV3

Single Zone Standard Efficiency Wall Mounted

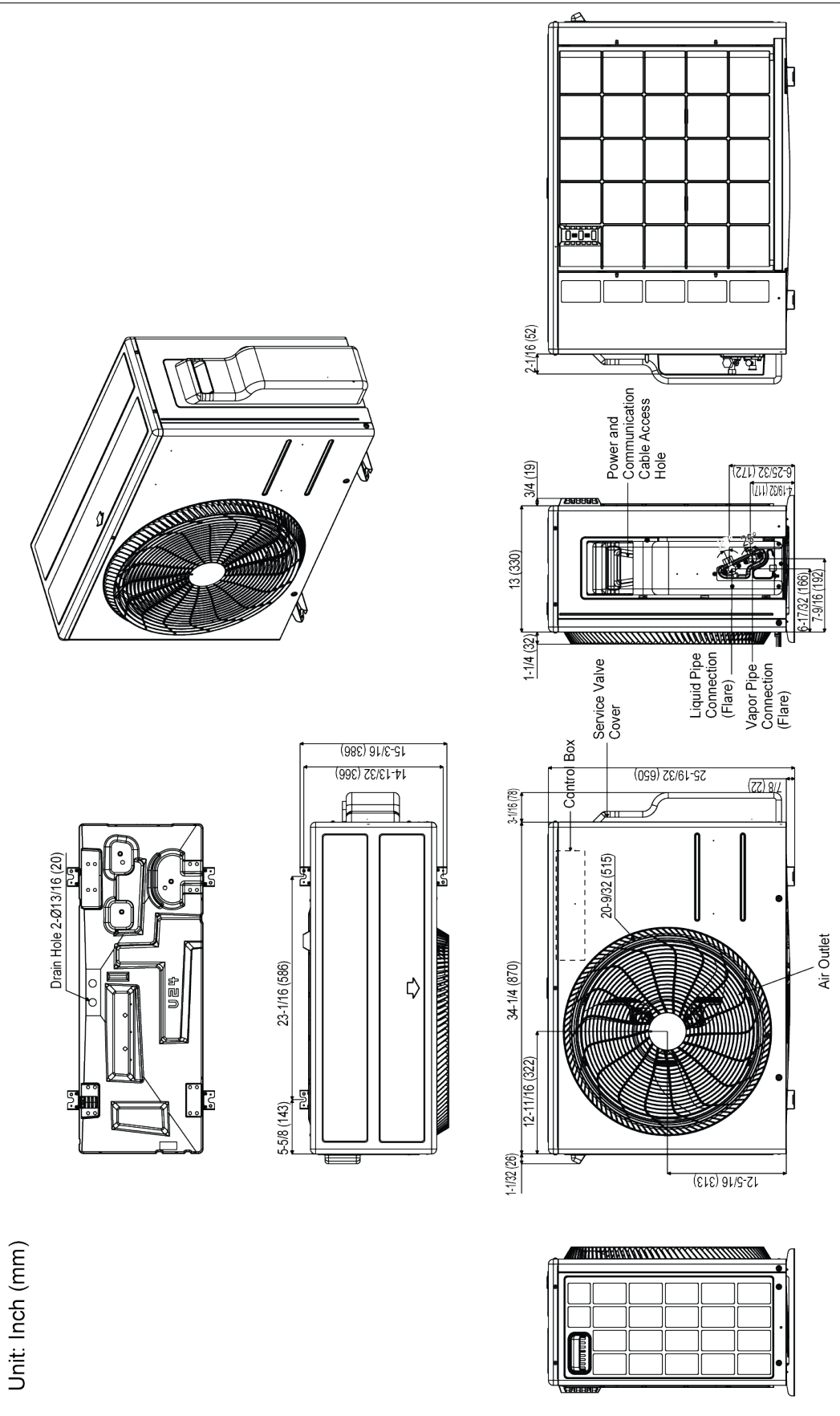
Outdoor Unit (ODU) - LSU180HFV3, Indoor Unit (IDU) - LSN180HFV3



Tag No.: DSCU-3, 4 / DSFC-3, 4

Date: 4/12/2024

PO No.: _____



Date: 4/12/2024

For: ☐ File ☐ Resubmit
☐ Approval ☐ Other_____

PO No.:

Architect:

GC: AIRETECH CORPORATION

Engr: LEMVRW

Mech: Comfort Systems

Rep: Airetech Corporation

Nick Moore

(Company)

(Project Manager)

LS181HSV5**Single Zone High Efficiency Wall Mounted**

Outdoor Unit (ODU) - LSU181HSV5, Indoor Unit (IDU) - LSN181HSV5

Performance:**Cooling:**

Cooling Capacity (Min~Rated~Max) (Btu/h)	3,070 ~ 18,000 ~ 29,515
SEER2	22.0
EER2	12.55

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

Heating:

Heating Capacity (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

Electrical:

Power Supply (V/Hz/Ø)	208-230 / 60 / 1
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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.) ²	9.8 / 114.8
Piping Length (no add'l refrig., 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 - PREMTBVC0
- ☐ MultiSITE CRC1+ - PREMTBVC1
- ☐ MultiSITE Comm. Mgr. - PBACNBTR0A
- ☐ PI-485 - PIMNFP14A1
- ☒ Dry Contact - PDRCB320
- ☐ MultiSITE LON Module-ZHWLONWKO
- ☐ AC Smart 5 - PACS5A000
- ☐ ACP 5 - PACP5A000
- ☐ Low Ambient Wind Baffle Kit (Cooling to 0°F) - ZLABGP04A

Verify control accessory capability for the subject equipment. For a complete list of available accessories, contact your LG representative.

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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

System Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	3.86
ODU Sound Pressure (Cooling / Heating) (±1 dB[A]) ³	55 / 55
IDU Sound Pressure Cooling (H/M/L/Sleep) (±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.)	25.6 / 32.2
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)	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.



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.)

LS181HSV5

Single Zone High Efficiency Wall Mounted

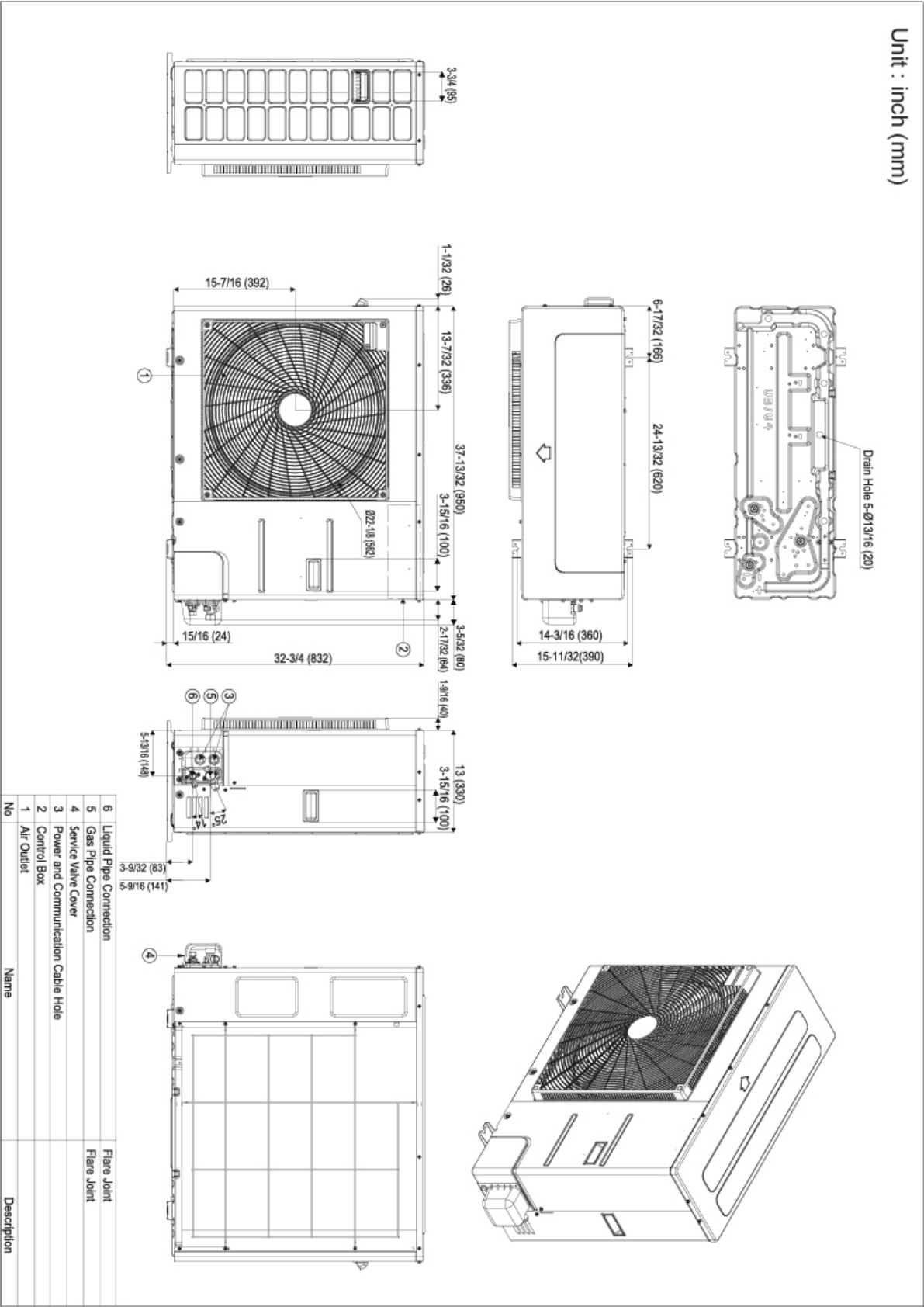
Outdoor Unit (ODU) - LSU181HSV5, Indoor Unit (IDU) - LSN181HSV5



Tag No.: DSCU-6 / DSFC-6

Date: 4/12/2024

PO No.:



Date: 4/12/2024

For: ☐ File ☐ Resubmit
☐ Approval Other _____

PO No.:

Architect:

GC: AIRETECH CORPORATION

Engr: LEMVRW

Mech: Comfort Systems

Rep: Airetech Corporation
(Company)Nick Moore
(Project Manager)**LS240HFV3**

Single Zone Standard Efficiency Wall Mounted

Outdoor Unit (ODU) - LSU240HFV3, Indoor Unit (IDU) - LSN240HFV3

Performance:**Cooling:**

Cooling Capacity (Min~Rated~Max) (Btu/h)	3,685 ~ 22,000 ~ 24,000
SEER2	17
EER2	11

SEER - Seasonal Energy Efficiency Ratio

EER - Energy Efficiency Ratio

Heating:

Heating Capacity (Min~Rated~Max) (Btu/h)	3,685 ~ 22,000 ~ 25,260
Max. Heating @ Indoor 70°F DB Outdoor 19°F DB / 17°F WB	17,680
HSPF2	8.3

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 ¹ /Hz/Ø)	208-230 / 60 / 1
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Outdoor Unit:

MOP (A)	20
MCA (A)	15
Cooling Rated Amps (A)	10.4
Heating Rated Amps (A)	10.4
Compressor (A)	10.0
Fan Motor (A)	0.4

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

Total Power Input:

Cooling Power Input (kW)	2.2
Heating Power Input (kW)	2.02

Piping:

Liquid Line (in., O.D.)	1/4
Vapor Line (in., O.D.)	1/2
Additional Refrigerant (oz./ft.)	0.26
Min. / Max. Pipe Length (ft.) ²	9.8 / 65.6
Piping Length (no add'l refriger., ft.)	24.6
Max. Elevation (ft.)	32.8

Features:

- 24-Hour on/off timer
- 2-Way (up / down) auto swing
- Auto changeover
- Auto restart
- Jet cool/Jet heat
- Condensate sensor connection
- Energy saving
- Inverter (variable speed compressor)
- Self-cleaning indoor coil
- Sleep mode
- Ultra quiet operation

Included Accessories:

- Wireless Remote Controller — AKB74955602

Optional Accessories:

- ☐ MultiSITE™ CRC1 — PREMTBVC0
- ☐ MultiSITE CRC1+ — PREMTBVC1
- ☐ Simple Remote Controller — PREMTCC00U
- ☐ Premium Remote Controller — PREMTA000
- ☒ Dry Contact - PDRYCB100/320/400

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

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**Operating Range:****Outdoor Unit:**

Cooling (°F DB)	14 to 118
Heating (°F WB)	14 to 65

Indoor Unit:

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

System Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs.)	2.975
ODU Sound Pressure (Cooling / Heating) (±1 dB[A]) ³	55 / 55
IDU Sound Pressure Cooling (H/M/L/Sleep) (±1 dB[A]) ³	48 / 43 / 38 / 32
Heating (H/M/L) (±1 dB[A]) ³	48 / 43 / 38 / 32
ODU Net / Shipping Weight (lbs.)	98.1 / 108
IDU Net / Shipping Weight (lbs.)	26 / 30
Heat Exchanger Coating	GoldFin™

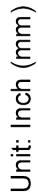
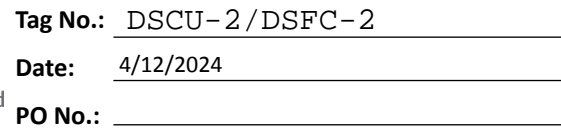
Fan:

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)	1,730
IDU Air Flow Cooling, Max/H/M/L (CFM)	689 / 512 / 459 / 371
Heating, Max/H/M/L (CFM)	653 / 565 / 477 / 388
Dehumidification (pts./hr.)	4.86

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.





Date: 4/12/2024

For: ☐ File ☐ Resubmit
☐ Approval ☐ Other _____

PO No.:

Architect:

GC: AIRETECH CORPORATION

Engr: LEMVRW

Mech: Comfort Systems

Rep: Airetech Corporation
(Company)Nick Moore
(Project Manager)

LMU363HV

Multi F Inverter Heat Pump Outdoor Unit



Performance:

Cooling Capacity (Min.-Rated-Max., Btu/h)	8,400~32,800~38,400
Heating Capacity (Min.-Rated-Max., Btu/h)	10,080~36,000~41,600
Max. Heating Capacity at 17°F (Btu/h)	28,400
Max. Heating Capacity at 5°F (Btu/h)	25,200
Max. Heating Capacity at -4°F (Btu/h)	20,800
Cooling COP @95°F (Rated)	3.7
Heating COP @47°F (Rated)	3.9

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) ¹	208-230V, 60, 1
MOP (A)	25
MCA (A)	18.4
Recommended Fuse Size (A)	25
Cooling Rated Amps (A)	15.03
Heating Rated Amps (A)	15.03
Compressor (A)	13.5
Fan Motor (A)	0.73
Locked Rotor Amps (A)	19.0

MOP - Maximum Overcurrent Protection

MCA - Minimum Circuit Ampacity

Piping:

Refrigerant Charge (lbs.)	6.17
Liquid Line Connection (in., O.D.)	1/4 x 4
Vapor Line Connection (in., O.D.)	3/8 x 4
Maximum Total Piping ² (ft.)	246.1
Min. / Max. ODU to IDU Piping (ft.)	9.8 / 82.0
Piping Length (no add'l refrigerant, ft.)	98.4
Maximum Elevation between ODU and IDU (ft.)	49.2
Maximum Elevation between IDU and IDU (ft.)	24.6

ODU = Outdoor Unit

IDU = Indoor Unit

Features:

- Auto operation
- Auto restart
- Inverter (variable speed compressor)
- Defrost / Deicing
- Restart delay (three [3] minutes)
- Self diagnosis
- Soft start
- Low ambient cooling down to 14°F

Optional Accessories:

- ☐ PI-485 - PMNFP14A1
- ☐ MultiSITE Comm. Mgr. - PBACNBTR0A
- ☐ AC Smart 5 - PACS5A000
- ☐ ACP 5 - PACP5A000
- ☐ Power Distribution Indicator (PDI) Premium - PQNUD1S41
- ☐ Mobile LGMV - PLGMVW100
- ☐ Drain Pan Heater - PQSH1200
- ☒ Low Ambient Baffle Kit (Cooling operation to -4°F) - ZLABGP04A

Operating Range:

Cooling (°F DB)	14 to 118
Heating (°F WB)	-4 to +64

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure (Cool / Heat) ±1 dB(A) ³	51 / 54
Net / Shipping Weight (lbs.)	138.9 / 154.3
Heat Exchanger Coating	Gold Fin™
Minimum No. of Indoor Units	2
Maximum No. of Indoor Units	4

Compressor:

Type	Twin Rotary
Quantity	1
Oil / Type	FVC68D

Fan:

Type	Propeller
Quantity	1
Motor / Drive	Brushless Digitally Controlled/Direct
Max. Airflow Rate (CFM)	2.119

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 / communication cable to be minimum 14 AWG, 4-conductor, stranded, shielded or unshielded wire, and must comply with applicable local and national codes. If shielded, the wire must be grounded to the chassis at the outdoor unit only.
5. Power wiring size must comply with the applicable local and national codes.
6. This data is rated 0 ft. above sea level, with 0 ft. level difference between outdoor and indoor units, and the following refrigerant pipe lengths:
 LMU183HV: 16.4 ft. x 2 = 32.8 ft.
 LMU243HV: 16.4 ft. x 3 = 49.2 ft.
 LMU303HV: 16.4 ft. x 4 = 65.6 ft.
 LMU363HV: 16.4 ft. x 4 = 65.6 ft.
 All capacities are net with a combination ratio between 95 - 105%.
7. Must follow installation instructions in the applicable LG installation manual.
8. Refer to the Combination Data Manual for combination capacity tables.
9. See the Performance Data Manual for sensible and latent capacities.



162279



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.

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SB_MultiF_LMU363HV_2023_05_31_064320

Page 1 of 2

LMU363HV

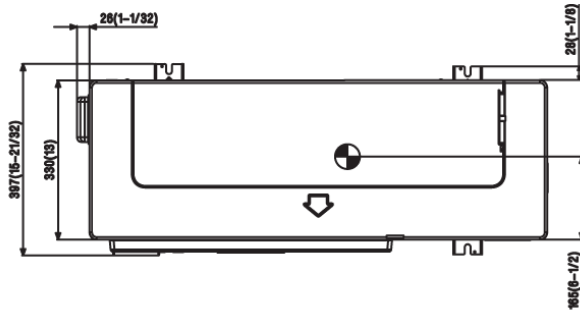
Multi F Inverter Heat Pump Outdoor Unit



Tag No.: DSCU-1w

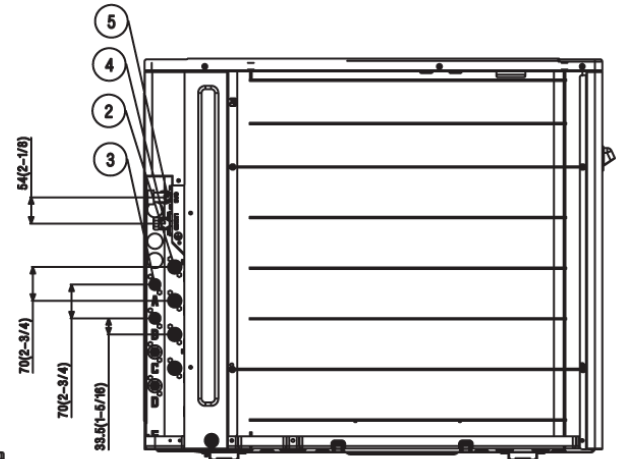
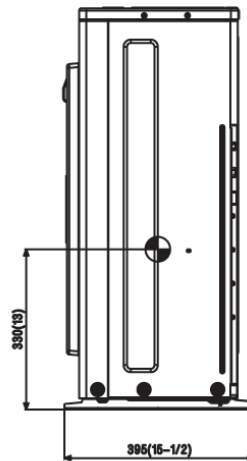
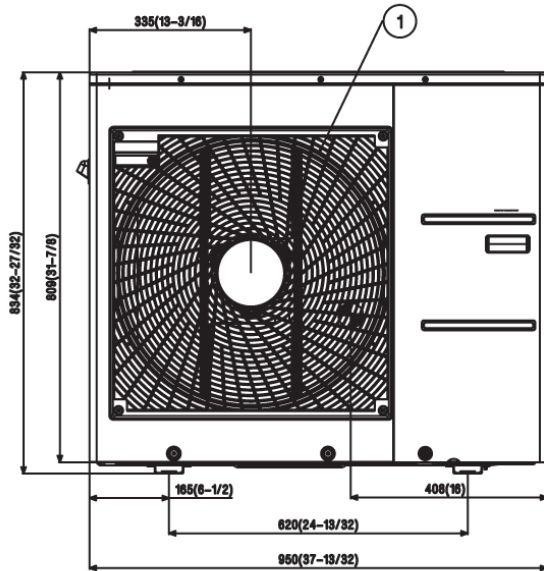
Date: 4/12/2024

PO No.:



[Unit : mm(inch)]

Gravity point



Notes:

1. Unit must be installed in compliance with the installation manual.
2. Unit must be grounded in accordance with the local or state regulations and applicable national codes.
3. All field-supplied electrical components and materials must comply with local, state, and national codes.
4. Electrical characteristics must be considered for electrical work and design. The capacity of power cable and circuit breaker for the outdoor unit must follow local, state, national, and manufacturer requirements.

No.	Part Name
1	Air discharge grille
2	Vapor pipe connection
3	Liquid pipe connection
4	Main service valve (Liquid)
5	Main service valve (Vapor)

Job Name/Location: Little Rock High School West

Tag #: DSFC-1A, 1B, 1C

Date: 4/12/2024

For: ☐ File ☐ Resubmit
☐ Approval Other _____

PO No.:

Architect:

GC: AIRETECH CORPORATION

Engr: LEMVRW

Mech: Comfort Systems

Rep: Airetech Corporation
(Company)

Nick Moore
(Project Manager)



LSN120HSV5

Multi F Wall Mounted High Efficiency Indoor Unit

12,000 Btu/h



Performance:

Nominal Cooling Capacity (Btu/h)	12,000
Nominal Heating Capacity (Btu/h)	13,600

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
Rated Amps (A)	0.4

Piping:

Installed Liquid Pipe (in., O.D.)	Ø1/4
Installed Vapor Pipe (in., O.D.)	Ø3/8
Liquid Connection (in., O.D.)	Ø1/4
Vapor Connection (in., O.D.)	Ø3/8
Drain (in., O.D. / I.D.)	27/32, 5/8
Temperature Sensor	Thermistor

Controls Features:

- 4-Way auto swing
- 24-Hour on/off timer
- Auto operation
- Auto restart
- Chaos wind
- Inverter (variable speed fan)
- Compatible with Single Zone HSV5 Outdoor Units
- Jet cool/Jet heat
- 3M Micro Dust Filter
- Self-cleaning indoor coil
- Sleep mode
- Condensate sensor connection
- Built-in Wi-Fi via Smart ThinQ app

Included Accessories:

- Wireless Remote Controller — AKB74955602

Optional Accessories:

- ☐ MultiSITE™ CRC1 - PREMTBVC0
- ☐ MultiSITE CRC1+ - PREMTBVC1
- ☒ Dry Contact - PDRYCB300

Entering Mixed Air:

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

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Sound Pressure (H/M/L) (±3 dB[A]) ²	38 / 34 / 29
Primary Filter	Washable Pre-filter
Secondary Filter	3M Micro Dust
Net Weight (lbs.)	18.3
Shipping Weight (lbs.)	23.4

Fan:

Type	Cross Flow
Quantity	1
Motor/Drive	Brushless Digitally Controlled/Direct
Air Flow H/M/L (CFM)	282 / 233 / 177

Notes:

1. Acceptable operating voltage: 187V-253V.
2. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
3. See Engineering Manual for sensible and latent capacities.
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, 18 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. Power wiring cable size must comply with the applicable local and national code.
6. The indoor unit comes with a dry helium charge.
7. Corresponding refrigerant piping length is in accordance with standard length of each outdoor unit and the level difference is 0 ft. All capacities are net with a combination ratio between 95 - 105%.
8. Must follow installation instructions in the applicable LG installation manual.



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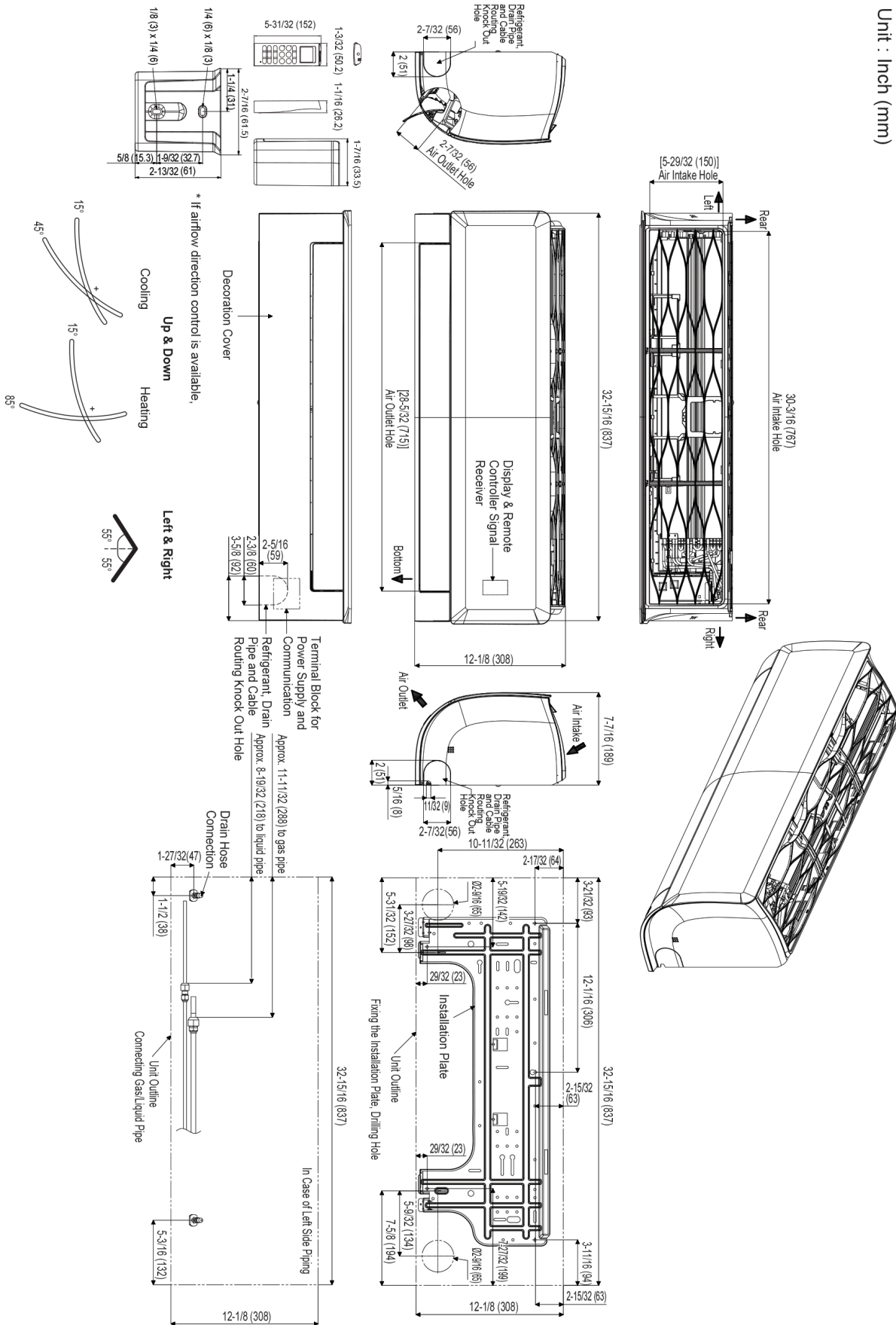


Tag No.: DSFC-1A, 1B, 1C

Date: 4/12/2024

PO No.:

Unit : Inch (mm)



Date: 4/12/2024

PO No.:

Architect:

Engr: LEMVRW

Rep: Airetech Corporation

(Company)

For:☐ File ☐ Resubmit

☐ Approval ☐ Other

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PDRYCB320
Dry Contact for Thermostat

Electrical:

Power Supply	12 VDC (from indoor unit)
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Surrounding Conditions:

Operating Temperature	14 to 158°F
Storage Temperature	-4 to 176°F
Humidity	0 to 98% (non-condensing)

Unit Data:

Dimensions	4-1/8" W x 3-1/16" H x 1-3/8" D
Contact Rating	3A @ 125 VAC

Connectivity:

LG Communications	30" Wiring Harness (included)
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Standard Features:

- Control indoor unit operation with 3rd party thermostat or controller.
- Inputs for control of Unit On/Off, Thermo On/Off, Mode (Cool/Heat/ Fan) and Fan Speed (Low, Med, High).
- Universal input to set a desired set point using DC Voltage or resistance.
- Setpoint Tracking Logic for improved inverter utilization.
- Outputs for Operation and Error Status.
- Compatible with all Multi V and select DFS units¹.
- W2 Function to support third party thermostats: W2 signal to control internal electric heat for VAHU models.

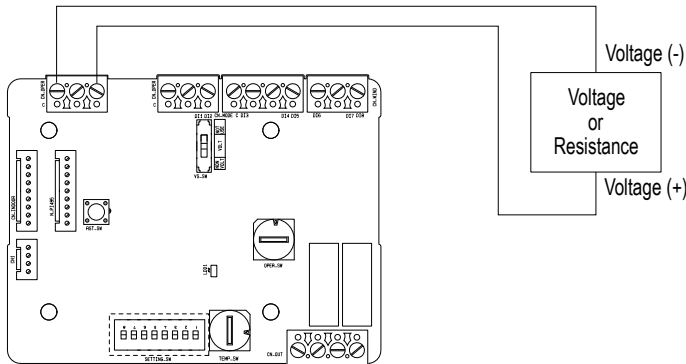
Notes:

1. For a complete list of compatible IDUs, contact your LG representative.
2. Must follow installation instructions in the applicable LG installation manual.

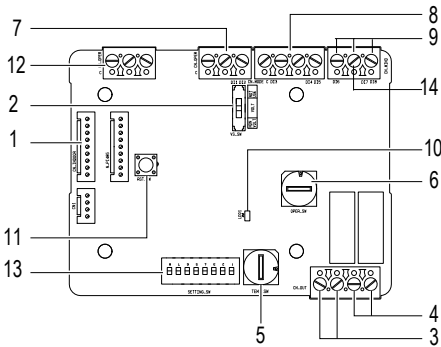
Wiring:

For setting desired temperature using Universal Input:

- 2.5 - 8.5 VDC (64°F to 86°F)
- 2.8 - 8.5 (kOhm) (64°F to 86°F)



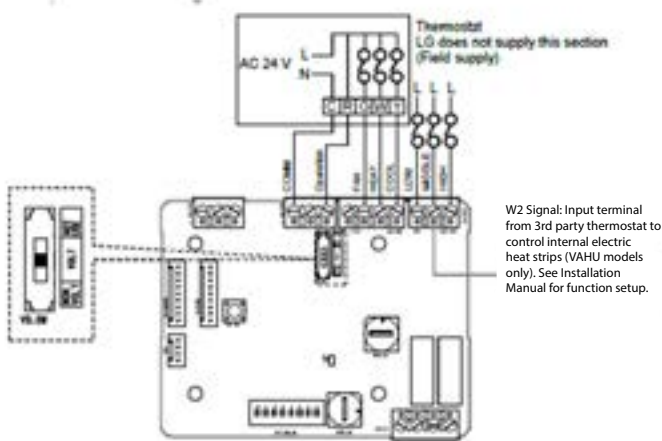
Parts Description:



1. CN_INDOOR: Connector for indoor unit.
2. VS_SW: Switch to select External Voltage or Non Voltage for input contact signal.
3. CN_OUT (O1,O2): Output terminal to show whether the indoor unit is operating (Relay contact).
4. CN_OUT (E3,E4): Output terminal to show whether there is an error with the indoor unit (Relay contact).
5. TEMP_SW: Switch to set the desired temperature of the indoor unit.
6. OPER_SW: Switch to select whether to use set function of Dry contact.
7. CN_OPER: Input terminal for thermo & operation signal.
8. CN_MODE: Input terminal for Mode signal.
9. CN_WIND: Input terminal for Wind signal.
10. LD01: LED to display the status of Dry contact Module.
11. RST_SW: Reset switch.
12. CN_AI: Input terminal for Universal Input.
13. SETTING_SW: Switch to select the Universal Input.
14. W2 Signal: Input terminal from 3rd party thermostat to control internal electric heat strips (VAHU models only). See Installation Manual for function setup.

Wiring:

For input contact voltage: DC 5-12 V, 24 V~



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For: ☐ File ☐ Resubmit

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☐ Approval ☐ Other _____

Architect:

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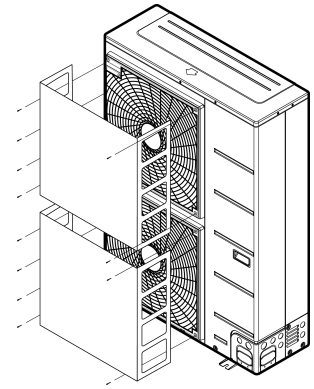
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ZLABGP04A**Low Ambient Wind Baffle Kit****Unit Data:**

Net Unit Weight (lbs)	5
Shipping Weight (lbs)	8
Dimensions (in)	23-5/8 x 23-5/8 x 7-15/16

Fitting Properties:

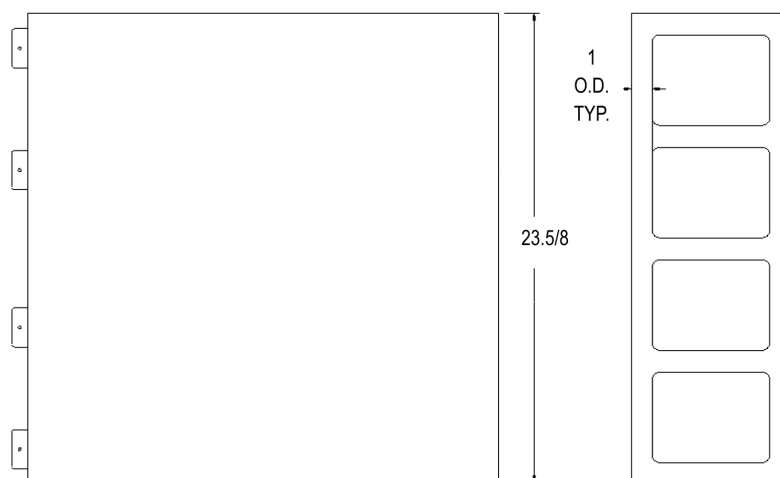
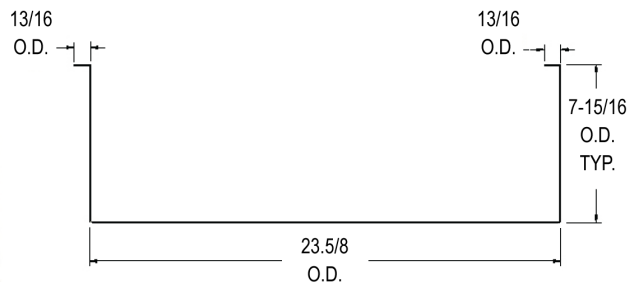
Color	Soft Dove Grey
Material	20 GA Paint Grip

Compatible Outdoor Units:

LSU243HLV3	LUU240HHV	LUU488HV*
LSU303HLV3	LMU180HHV	LUU360HHV*
LSU363HLV3	LMU240HHV	LUU420HHV*
LAU150HYV3	LMU300HHV	LUU480HHV*
LAU180HYV3	LMU30CHV	LMU360HHV*
LAU240HYV3	LMU36CHV	LMU420HHV*
LUU189HV	LUU369HV*	LMU480HV*
LUU249HV	LUU429HV*	LMU540HV*
LUU180HHV	LUU428HV*	LMU600HV*
	Multi V™ S*	*Requires x2 ZLABGP04A

Standard Features:

- Allows operation down to 0°F in cooling mode
- Compatible outdoor units are equipped with necessary fan speed control
- 4 zinc plated pan head phillips screws #8 x 1/2"



Unit = inch

Note: All dimensions are rounded up to the nearest fraction.

