



# Lennox National Accounts Project Submittal

**Project Name:** Ross 2524 Kettering OH  
**Project Number:** 437417  
**Project Altitude:** 1007  
**Project Location:**  
300 E Stroop Rd  
Dayton, Ohio US

**Date:** 5/2/2023  
**Quote:** 333105  
**Roof Top Units:** 7  
**Split Systems:** 1

**Customer:** Ross Dress For Less  
**Engineer:** M C G Architecture  
**National Account:** Ross Dress For Less

## Table of Contents

| Tag                          | Qty | Model     | Description                   |
|------------------------------|-----|-----------|-------------------------------|
| <u>AC 1 - 12.5 Ton</u>       | 1   | LGT150H4E | LGT150H4E-Y 12.5T CONF E=10.8 |
| <u>AC 2 - 3 Ton</u>          | 1   | LGT036H4E | LGT036H4E-Y 3T CONF S=17.8    |
| <u>AC 3 - 13 Ton</u>         | 1   | LGT156H4M | LGT156H4M-Y 13T CONF E=12.0   |
| <u>AC 4 - 5 Ton</u>          | 1   | LGT060H4E | LGT060H4E-Y 5T CONF S=17.1    |
| <u>AC 5 - 7.5 Ton</u>        | 1   | LGT092H4E | LGT092H4E-Y 7.5T CONF E=12.3  |
| <u>AC 6 &amp; 7 - 13 Ton</u> | 2   | LGT156H4M | LGT156H4M-Y 13T CONF E=12.0   |
| <u>UH-1</u>                  | 1   | 18C50     | LF25-200A-1 UNIT HEATER       |
| <u>Miscellaneous Items</u>   |     |           |                               |

Revit® Building Information Modeling (BIM) - [Click here](#)

AutoCAD® Templates - [Click here](#)



# Lennox National Accounts Project Submittal

Tag: **AC 1** - 12.5 Ton

Model: **LGT150H4E** - LGT150H4E-Y 12.5T CONF E=10.8

## UNIT OVERVIEW

| Voltage          | I/EER<br>EER | MCA/MOCP<br>(amp) | Gross Cooling<br>Ttl/Sens<br>(MBH) | Net Cooling<br>Ttl/Sens<br>(MBH) | Supply<br>Air Flow<br>(cfm) | ESP/TSP<br>(in.WC) | EAT<br>DB/WB<br>(°F) | LAT<br>DB/WB<br>(°F) |
|------------------|--------------|-------------------|------------------------------------|----------------------------------|-----------------------------|--------------------|----------------------|----------------------|
| 208V 3Ph<br>60Hz | 14.6<br>10.8 | 63 / 80           | 139.1 / 105.0                      | 127.6 / 93.5                     | 4,600                       | 0.80 / 1.59        | 76.6 / 63.7          | 54.3 / 52.9          |

## COOLING

| Cooling Performance      |                   | Temperatures (DB/WB °F) |      |
|--------------------------|-------------------|-------------------------|------|
| Gross Cooling (Ttl/Sens) | 139.1 / 105.0 MBH | Ambient                 | 95.0 |
| Net Cooling (Ttl/Sens)   | 127.6 / 93.5 MBH  | Entering                | 76.6 |
| Coil Moisture Removal    | 32.12 lb/hr       | Leaving - (Coil)        | 54.3 |
| System Moisture Removal  | 32.12 lb/hr       | Leaving - (Unit)        | 56.6 |

| ARI Performance |                   | Compressors    |          | Refrigerant |               | Condensate Drain |       |
|-----------------|-------------------|----------------|----------|-------------|---------------|------------------|-------|
| ARI Cooling     | 141.0 / 136.0 MBH | Cooling Stages | 3.0      | Type        | R-410A        | Qty              | 1     |
| ARI Power       | 12,500 W          | Compressor Qty | 2        | Charge      | 14 LBS. 4 OZ. | Size             | 1 in. |
|                 |                   | Compressor RLA | 40.2 amp |             |               | Pipe Thread      | npt   |

## HEATING

| Heating Performance |                   | Temperatures (DB/WB °F) |      | Specifications     |          |
|---------------------|-------------------|-------------------------|------|--------------------|----------|
| Output (High/Low)   | 194.0 / 126.4 MBH | Leaving                 | 39.0 | Heat Stages        | 2        |
| Input (High/Low)    | 240.0 / 156.0 MBH |                         |      | Thermal Efficiency | 81.0%    |
| Heat Rise           | 39.0 °F           |                         |      | Gas Line Size      | 0.75 in. |
|                     |                   |                         |      | Gas Pressure       | 7 in.WC  |

## VENTILATION

| Air Flow (cfm) |       | Supply Fan     |                  | Air Resistance (in.WC) |      |
|----------------|-------|----------------|------------------|------------------------|------|
| Supply         | 4,600 | Nominal Power  | 3.75 hp          | Total                  | 1.59 |
| Outdoor        | 1,150 | Required Power | 3.62 hp          | Ext Supply             | 0.80 |
|                | 0     | Drive Type     | ECM Direct Drive |                        |      |
|                |       | Required Watts | 2,695 W          |                        |      |

## AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

| Wet Coil | Humiditrol | Heat | Economizer | Filters | Diffuser | Exhaust | ERW |
|----------|------------|------|------------|---------|----------|---------|-----|
| 0.17     |            | 0.34 | 0.23       | 0.04    |          |         |     |

## ELECTRICAL

|                     |                 |                   |          |
|---------------------|-----------------|-------------------|----------|
| Voltage             | 208V 3Ph / 60Hz | Compressor RLA    | 40.2 amp |
| MCA                 | 63 amp          | Cooling FLA Total | 54.9 amp |
| MOCP                | 80 amp          | Condenser FLA     | 6.0 amp  |
| Condenser Power     | 1000 W          | Supply Fan FLA    | 8.7 amp  |
| Oper Range-Nom Volt | +/- 10%         |                   |          |

## ADDITIONAL DATA

|                 |                                    |                      |          |
|-----------------|------------------------------------|----------------------|----------|
| Cabinet         | 101.25 in. x 60.12 in. x 46.88 in. | Total Weight         | 1,372 lb |
| Downflow Supply | 20.0 in. x 28.0 in.                | Base Unit Net Weight | 1,226 lb |
| Downflow Return | 24.0 in. x 27.0 in.                | OAS/Econ Weight      | 83 lb    |
| Filters         | (4) 20.0 in. x 25.0 in. x 2.0 in.  | Gas Heat Weight      | 32 lb    |
| Sound Rating    | 90 dBA                             |                      |          |



# Lennox National Accounts Project Submittal

Tag: **AC 1** - 12.5 Ton

## Factory Installed Options

- High Performance Economizer Upgrade Factory Installed
- Global High Performance Economizer
- Direct Drive
- Unit Orientation Downflow
- Supply Fan: Multi-Speed ECM Direct Drive
- 208/220/230/240V 3Phase
- 80Amp Disconnect Factory Installed
- Built-in BACnet IP and MS/TP (standard)
- Supply Motor - 3.75 Hp - DirectPlus w/MSAV
- Std Static Power Exhaust Fan
- 240K A.S. (Dual Stage)
- Combination Coil/Hail Guards Factory Installed
- Hinged Access Doors Factory Installed
- 15A GFCI Factory Installed/Field Wired
- Supply Air Smoke Detector Factory Installed
- Return Air Smoke Detector Factory Installed
- Environ Condenser Coil System Factory Installed
- 2" MERV8 - Filter Factory installed

## Field Installed Accessories

| Catalog Number | Qty | Description                       |
|----------------|-----|-----------------------------------|
| 50W61          | 4   | 2" MERV8 - Filter Field Installed |

## Product Features

### Cabinet

- Hinged Access Panels
- Durable Outdoor Enamel Paint Finish
- Totally Enclosed Outdoor Fan Motor
- PVC Coated Fan Guard
- Corrosion-Resistant Removable, Reversible Drain Pan
- Isolated Compressor Compartment

### Cooling System

- Scroll Compressor
- Expansion Valves
- High Capacity Driers
- Crankcase Heater
- System can operate from 0°F to 125°F without any additional controls
- Pre-charged Refrigeration System
- Internal Pressure Relief Valve

### Heating System

- Redundant Automatic Gas Valve with Manual Shut-off
- Electronic Flame Sensor
- Direct Spark Ignition
- Aluminized Steel Inshot Burners
- If configured for room sensor control, additional staging may be possible. Refer to performance tables within the EHB

### Control System

- Fan and Limit Controls
- Overload Protection
- Microprocessor Controls – Lennox® CORE Control System
- Auto reset high & low pressure switch with strike 3 lockout feature in Lennox® CORE Control System
- Limited warranty on Lennox® CORE Control System of 3 years
- Built-in BACnet IP & MS/TP
- Phase/Voltage Detection
- Return Air Sensor Factory Installed
- Outdoor Air Sensor Factory Installed
- Factory Installed Discharge Air Sensor

### Compliance

- All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8
- All models meet DOE 2018 and 2023 energy efficiency standards



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Model meets California Code of Regulations, Title 24 and ASHRAE 90.1-2016 Section 6.4.3.10 requirements for staged airflow  
Model meets HCAI (formerly OSHPD) OSP and Special Seismic Certification (Number: OSP-0596) and meet 2018 International Building Code (IBC), 2019 California Building Code (CBC) ASCE 7, and ICC-ES AC156  
ISO 9001 Registered Manufacturing Quality System

## **Warranty**

Limited warranty on aluminized heat exchanger of 10 years  
Limited warranty on compressor of 5 years  
Limited warranty on Environ Coil System of 3 years  
Limited warranty on High Performance Economizer of 5 years  
Limited warranty on all other components of 1 year  
See Limited Warranty Certificate included with unit for details



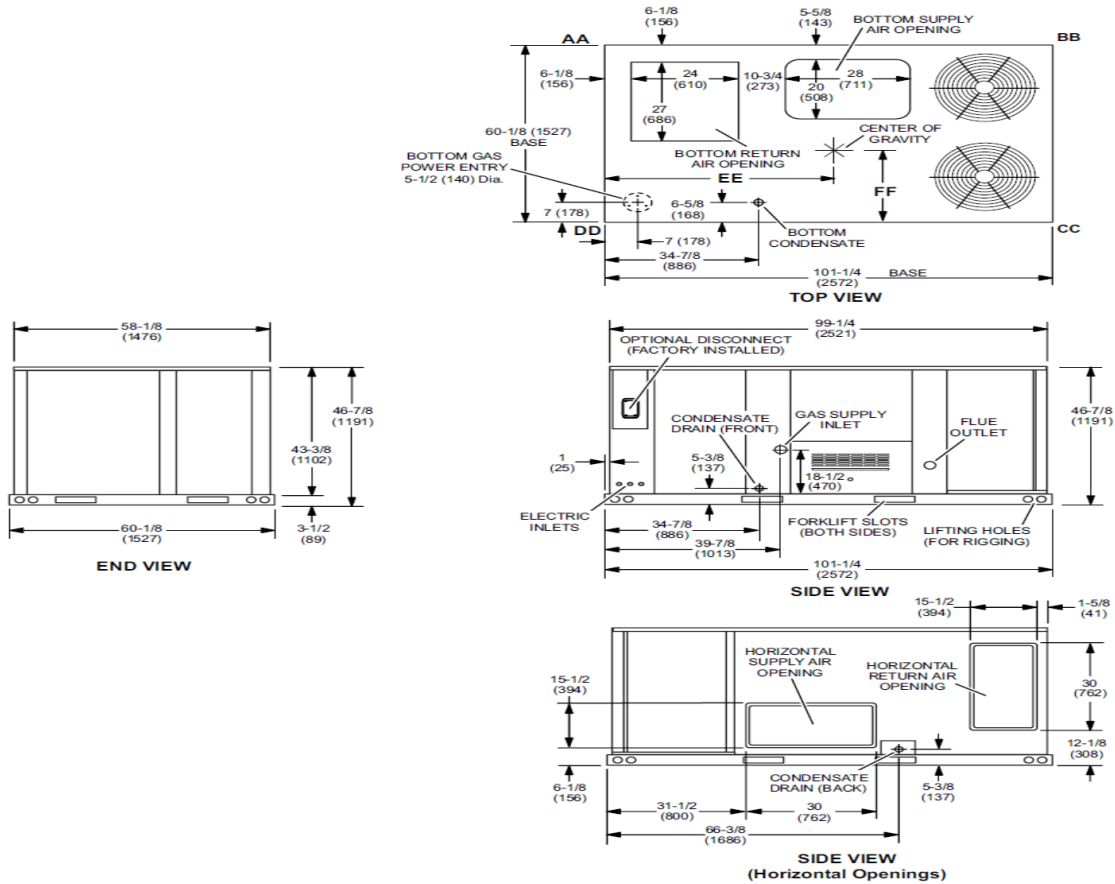
# Lennox National Accounts Project Submittal

| Corner Weights (lb) |     |      |     |      |     |      |     | Center of Gravity (in.) |       |       |       |
|---------------------|-----|------|-----|------|-----|------|-----|-------------------------|-------|-------|-------|
| AA                  |     | BB   |     | CC   |     | DD   |     | EE                      |       | FF    |       |
| Base                | Max | Base | Max | Base | Max | Base | Max | Base                    | Max   | Base  | Max   |
| 316                 | 359 | 284  | 314 | 304  | 393 | 345  | 393 | 46.50                   | 45.50 | 24.50 | 25.50 |

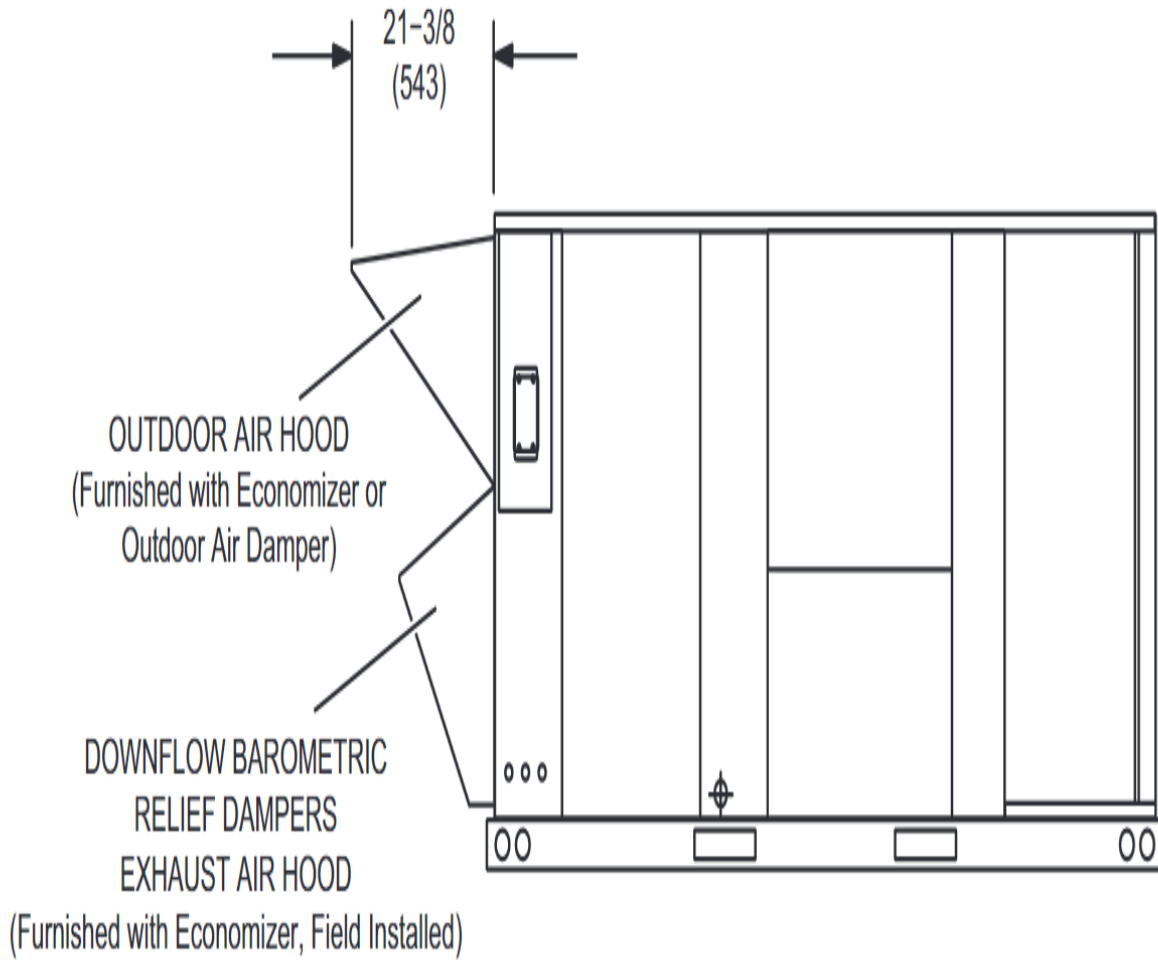
| Model No. | DIMENSIONS     |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     | UNIT              |      |      |      |      |     |      |     |
|-----------|----------------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|-------------------|------|------|------|------|-----|------|-----|
|           | CORNER WEIGHTS |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     | CENTER OF GRAVITY |      |      |      |      |     |      |     |
|           | AA             |     | BB   |     | CC   |     | DD   |     | EE   |     | FF   |     | Base |     | Max. |     | Base              |      | Max. |      |      |     |      |     |
|           | lbs.           | kg  | lbs. | kg  | lbs. | kg  | lbs. | kg  | lbs. | kg  | lbs. | kg  | in.  | mm  | in.  | mm  | in.               | mm   | in.  | mm   |      |     |      |     |
| 092       | 293            | 133 | 338  | 153 | 263  | 119 | 295  | 134 | 286  | 130 | 316  | 143 | 326  | 148 | 370  | 168 | 46.5              | 1181 | 45.5 | 1156 | 24.5 | 622 | 25.5 | 648 |
| 102       | 294            | 134 | 340  | 154 | 265  | 120 | 297  | 135 | 288  | 131 | 318  | 144 | 328  | 149 | 372  | 169 | 46.5              | 1181 | 45.5 | 1156 | 24.5 | 622 | 25.5 | 648 |
| 120       | 306            | 139 | 349  | 158 | 275  | 125 | 305  | 138 | 295  | 134 | 326  | 148 | 334  | 152 | 382  | 173 | 46.5              | 1181 | 45.5 | 1156 | 24.5 | 622 | 25.5 | 648 |
| 150       | 316            | 143 | 359  | 163 | 284  | 129 | 314  | 142 | 304  | 138 | 393  | 178 | 345  | 157 | 393  | 178 | 46.5              | 1181 | 45.5 | 1156 | 24.5 | 622 | 25.5 | 648 |

Base Unit - The unit with NO INTERNAL OPTIONS.

Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit or high static power exhaust.



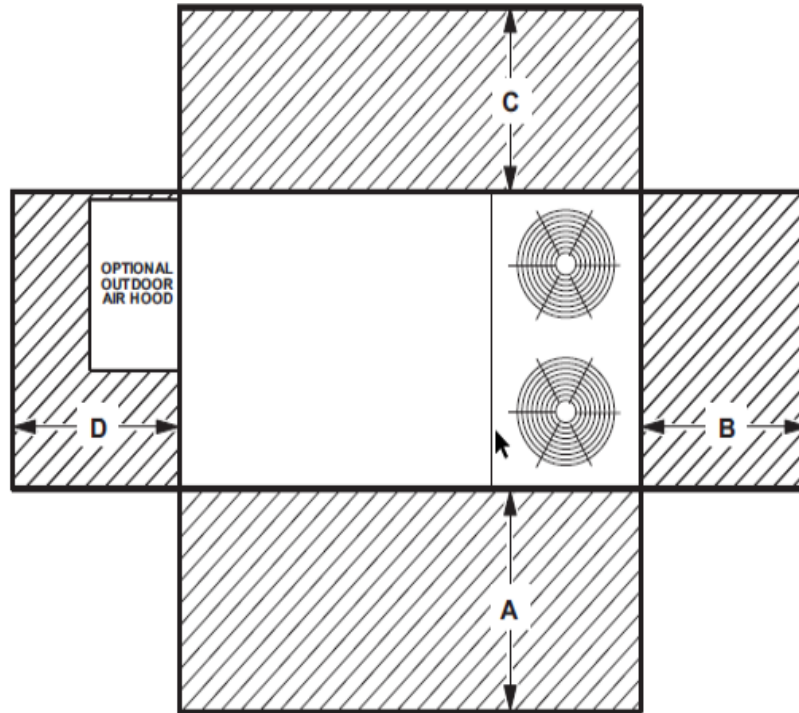
## OUTDOOR AIR HOOD DETAIL





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## UNIT CLEARANCES



| ¹ Unit Clearance                   | A   |      | B   |     | C   |     | D   |      | Top Clearance |
|------------------------------------|-----|------|-----|-----|-----|-----|-----|------|---------------|
|                                    | in. | mm   | in. | mm  | in. | mm  | in. | mm   |               |
| <b>Service Clearance</b>           | 60  | 1524 | 36  | 914 | 36  | 934 | 60  | 1524 | Unobstructed  |
| <b>Clearance to Combustibles</b>   | 36  | 914  | 1   | 25  | 1   | 25  | 1   | 25   |               |
| <b>Minimum Operation Clearance</b> | 36  | 914  | 36  | 914 | 36  | 914 | 36  | 914  |               |

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

¹ Service Clearance - Required for removal of serviceable parts.

Clearance to Combustibles - Required clearance to combustible material.

Minimum Operation Clearance - Required clearance for proper unit operation.



# Lennox National Accounts Project Submittal

Tag: AC 2 - 3 Ton

Model: LGT036H4E - LGT036H4E-Y 3T CONF S=17.8

## UNIT OVERVIEW

| Voltage          | SEER<br>EER  | MCA/MOCP<br>(amp) | Gross Cooling<br>Ttl/Sens<br>(MBH) | Net Cooling<br>Ttl/Sens<br>(MBH) | Supply<br>Air Flow<br>(cfm) | ESP/TSP<br>(in.WC) | EAT<br>DB/WB<br>(°F) | LAT<br>DB/WB<br>(°F) |
|------------------|--------------|-------------------|------------------------------------|----------------------------------|-----------------------------|--------------------|----------------------|----------------------|
| 208V 3Ph<br>60Hz | 17.8<br>13.3 | 19 / 25           | 34.2 / 26.2                        | 32.6 / 24.6                      | 1,200                       | 1.00 / 1.12        | 74.3 / 62.0          | 53.0 / 51.5          |

## COOLING

| Cooling Performance      |                 | Temperatures (DB/WB °F) |      |
|--------------------------|-----------------|-------------------------|------|
| Gross Cooling (Ttl/Sens) | 34.2 / 26.2 MBH | Ambient                 | 95.0 |
| Net Cooling (Ttl/Sens)   | 32.6 / 24.6 MBH | Entering                | 74.3 |
| Coil Moisture Removal    | 7.58 lb/hr      | Leaving - (Coil)        | 53.0 |
| System Moisture Removal  | 7.58 lb/hr      | Leaving - (Unit)        | 54.4 |
|                          |                 |                         | 52.1 |

| ARI Performance |                 | Compressors    |         | Refrigerant |               | Condensate Drain |       |
|-----------------|-----------------|----------------|---------|-------------|---------------|------------------|-------|
| ARI Cooling     | 36.6 / 36.0 MBH | Cooling Stages | 2.0     | Type        | R-410A        | Qty              | 1     |
| ARI Power       | 2,700 W         | Compressor Qty | 1       | Charge      | 5 LBS. 11 OZ. | Size             | 1 in. |
|                 |                 | Compressor RLA | 8.8 amp |             |               | Pipe Thread      | npt   |

## HEATING

| Heating Performance |                 | Temperatures (DB/WB °F) |      | Specifications         |         |
|---------------------|-----------------|-------------------------|------|------------------------|---------|
| Output (High/Low)   | 52.0 / 43.0 MBH | Leaving                 | 40.9 | Heat Stages            | 2       |
| Input (High/Low)    | 65.0 / 53.0 MBH |                         |      | Thermal Efficiency NOX | 81.0%   |
| Heat Rise           | 40.9 °F         |                         |      | Gas Line Size          | 0.5 in. |
|                     |                 |                         |      | Gas Pressure           | 7 in.WC |

## VENTILATION

| Air Flow (cfm) |       | Supply Fan     |                   | Air Resistance (in.WC) |      |
|----------------|-------|----------------|-------------------|------------------------|------|
| Supply         | 1,200 | Nominal Power  | 1.50 hp           | Total                  | 1.12 |
| Outdoor        | 150   | Required Power | 0.51 hp           | Ext Supply             | 1.00 |
|                | 0     | Drive Type     | MSAV Direct Drive |                        |      |
|                |       | Required Watts | 383 W             |                        |      |

## AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

| Wet Coil | Humiditrol | Heat | Economizer | Filters | Diffuser | Exhaust | ERW |
|----------|------------|------|------------|---------|----------|---------|-----|
| 0.03     |            | 0.02 | 0.04       | 0.03    |          |         |     |

## ELECTRICAL

|                     |                 |                   |          |
|---------------------|-----------------|-------------------|----------|
| Voltage             | 208V 3Ph / 60Hz | Compressor RLA    | 8.8 amp  |
| MCA                 | 19 amp          | Cooling FLA Total | 16.0 amp |
| MOCP                | 25 amp          | Condenser FLA     | 2.8 amp  |
| Condenser Power     | 175 W           | Supply Fan FLA    | 4.4 amp  |
| Oper Range-Nom Volt | +/- 10%         |                   |          |

## ADDITIONAL DATA

|                 |                                   |                      |        |
|-----------------|-----------------------------------|----------------------|--------|
| Cabinet         | 85.25 in. x 47.00 in. x 46.88 in. | Total Weight         | 761 lb |
| Downflow Supply | 20.0 in. x 18.0 in.               | Base Unit Net Weight | 630 lb |
| Downflow Return | 29.0 in. x 11.0 in.               | OAS/Econ Weight      | 131 lb |
| Filters         | (4) 20.0 in. x 20.0 in. x 2.0 in. |                      |        |
| Sound Rating    | 75 dBA                            |                      |        |



# Lennox National Accounts Project Submittal

Tag: AC 2 - 3 Ton

### Factory Installed Options

- High Performance Economizer Upgrade Factory Installed
- Global High Performance Economizer
- Direct Drive
- Unit Orientation Downflow
- Supply Fan: Multi-Speed ECM Direct Drive
- 208/220/230/240V 3Phase
- 80Amp Disconnect Factory Installed
- Built-in BACnet IP and MS/TP (standard)
- Supply Motor - 1.5 Hp ECM - w/ MSAV
- Barometric Relief Damper (Fac)
- 65K A.S. (Dual Stage)
- Low Nox Factory Installed
- Combination Coil/Hail Guards Factory Installed
- Hinged Access Doors Factory Installed
- 15A GFCI Factory Installed/Field Wired
- Phase/Voltage Detection Factory Installed
- Supply Air Smoke Detector Factory Installed
- Return Air Smoke Detector Factory Installed
- Environ Condenser Coil System Factory Installed
- 2" MERV8 - Filter Factory installed

### Field Installed Accessories

| Catalog Number | Qty | Description                       |
|----------------|-----|-----------------------------------|
| 54W21          | 4   | 2" MERV8 - Filter Field Installed |

### Product Features

#### Cabinet

- Hinged Access Panels
- Durable Outdoor Enamel Paint Finish
- Totally Enclosed Outdoor Fan Motor
- PVC Coated Fan Guard
- Corrosion-Resistant Removable, Reversible Drain Pan
- Isolated Compressor Compartment

#### Cooling System

- Scroll Compressor
- Expansion Valves
- High Capacity Driers
- Crankcase Heater
- System can operate from 0°F to 125°F without any additional controls
- Pre-charged Refrigeration System
- Internal Pressure Relief Valve

#### Heating System

- Redundant Automatic Gas Valve with Manual Shut-off
- Electronic Flame Sensor
- Direct Spark Ignition
- Aluminized Steel Inshot Burners
- If configured for room sensor control, additional staging may be possible. Refer to performance tables within the EHB

#### Control System

- Fan and Limit Controls
- Overload Protection
- Microprocessor Controls – Lennox® CORE Control System
- Auto reset high & low pressure switch with strike 3 lockout feature in Lennox® CORE Control System
- Limited warranty on Lennox® CORE Control System of 3 years
- Built-in BACnet IP & MS/TP
- Return Air Sensor Factory Installed
- Outdoor Air Sensor Factory Installed
- Factory Installed Discharge Air Sensor

#### Compliance

All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8



# Lennox National Accounts Project Submittal

All models meet DOE 2018 and 2023 energy efficiency standards

Model meets California Code of Regulations, Title 24 and ASHRAE 90.1-2016 Section 6.4.3.10 requirements for staged airflow

Model meets HCAI (formerly OSHPD) OSP and Special Seismic Certification (Number: OSP-0596) and meet 2018 International Building Code (IBC), 2019

California Building Code (CBC) ASCE 7, and ICC-ES AC156

ISO 9001 Registered Manufacturing Quality System

## **Warranty**

Limited warranty on aluminized heat exchanger of 10 years

Limited warranty on compressor of 5 years

Limited warranty on Environ Coil System of 3 years

Limited warranty on High Performance Economizer of 5 years

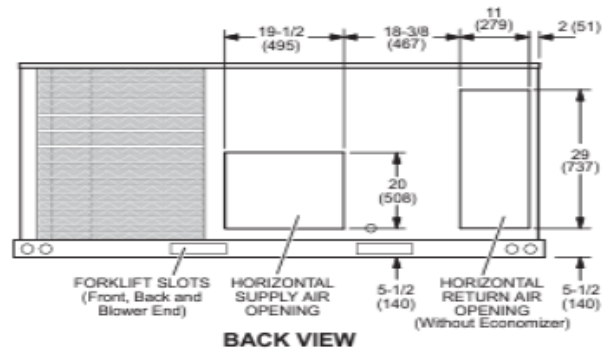
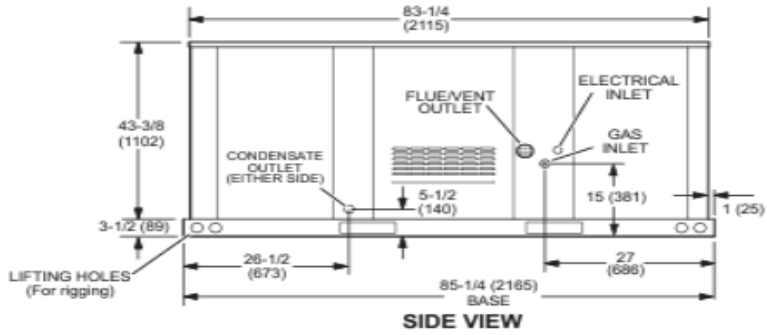
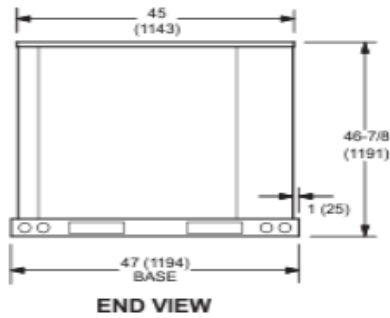
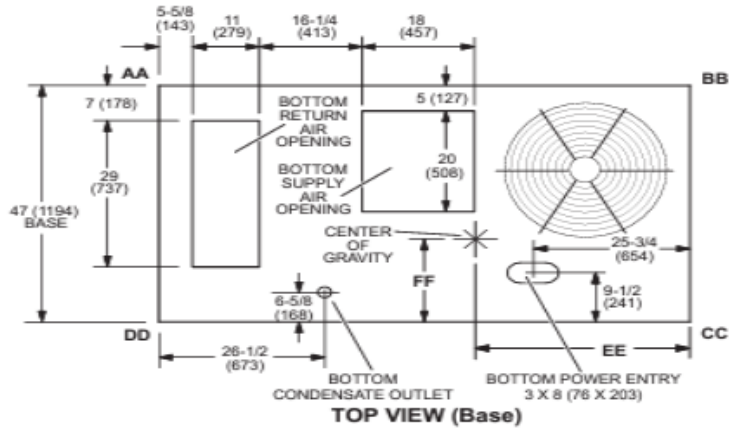
Limited warranty on all other components of 1 year

See Limited Warranty Certificate included with unit for details



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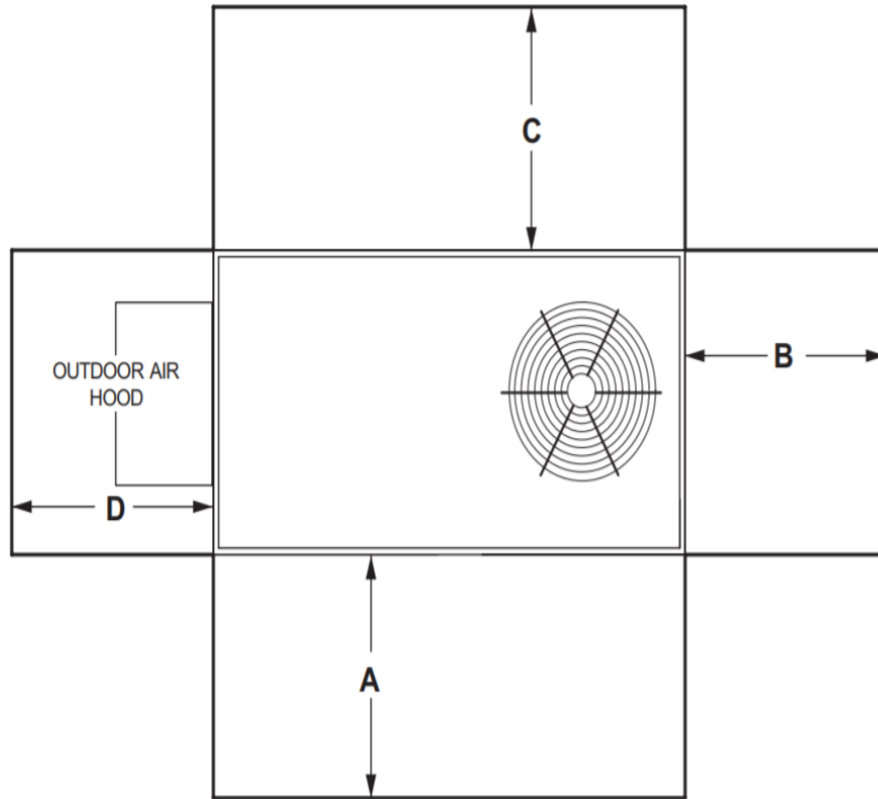
| Corner Weights (lb) |     |      |     |      |     | Center of Gravity (in.) |     |       |       |       |       |
|---------------------|-----|------|-----|------|-----|-------------------------|-----|-------|-------|-------|-------|
| AA                  |     | BB   |     | CC   |     | DD                      |     | EE    |       | FF    |       |
| Base                | Max | Base | Max | Base | Max | Base                    | Max | Base  | Max   | Base  | Max   |
| 131                 | 168 | 161  | 207 | 220  | 283 | 179                     | 230 | 38.25 | 39.75 | 19.88 | 19.88 |





# Lennox National Accounts Project Submittal

## UNIT CLEARANCES



| ¹ Unit Clearance            | A   |      | B   |     | C   |     | D   |     | Top Clearance |
|-----------------------------|-----|------|-----|-----|-----|-----|-----|-----|---------------|
|                             | in. | mm   | in. | mm  | in. | mm  | in. | mm  |               |
| Service Clearance           | 48  | 1219 | 36  | 914 | 36  | 934 | 36  | 914 | Unobstructed  |
| Clearance to Combustibles   | 36  | 914  | 1   | 25  | 1   | 25  | 1   | 25  |               |
| Minimum Operation Clearance | 36  | 914  | 36  | 914 | 36  | 914 | 36  | 914 |               |

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

¹ **Service Clearance** - Required for removal of serviceable parts.

**Clearance to Combustibles** - Required clearance to combustible material.

**Minimum Operation Clearance** - Required clearance for proper unit operation.



# Lennox National Accounts Project Submittal

Tag: **AC 3** - 13 Ton

Model: **LGT156H4M** - LGT156H4M-Y 13T CONF E=12.0

## UNIT OVERVIEW

| Voltage          | I/EER<br>EER | MCA/MOCP<br>(amp) | Gross Cooling<br>Ttl/Sens<br>(MBH) | Net Cooling<br>Ttl/Sens<br>(MBH) | Supply<br>Air Flow<br>(cfm) | ESP/TSP<br>(in.WC) | EAT<br>DB/WB<br>(°F) | LAT<br>DB/WB<br>(°F) |
|------------------|--------------|-------------------|------------------------------------|----------------------------------|-----------------------------|--------------------|----------------------|----------------------|
| 208V 3Ph<br>60Hz | 15.5<br>12   | 76 / 90           | 154.8 / 122.4                      | 146.8 / 114.5                    | 5,200                       | 1.00 / 1.14        | 76.6 / 63.8          | 53.6 / 53.2          |

## COOLING

| Cooling Performance      |                   | Temperatures (DB/WB °F) |                |
|--------------------------|-------------------|-------------------------|----------------|
| Gross Cooling (Ttl/Sens) | 154.8 / 122.4 MBH | Ambient                 | 95.0           |
| Net Cooling (Ttl/Sens)   | 146.8 / 114.5 MBH | Entering                | 76.6      63.8 |
| Coil Moisture Removal    | 30.52 lb/hr       | Leaving - (Coil)        | 53.6      53.2 |
| System Moisture Removal  | 30.52 lb/hr       | Leaving - (Unit)        | 55.1      53.8 |

| ARI Performance |                   | Compressors    |          | Refrigerant |               | Condensate Drain |       |
|-----------------|-------------------|----------------|----------|-------------|---------------|------------------|-------|
| ARI Cooling     | 152.0 / 148.0 MBH | Cooling Stages | 3.0      | Type        | R-410A        | Qty              | 1     |
| ARI Power       | 12,300 W          | Compressor Qty | 2        | Charge      | 17 LBS. 8 OZ. | Size             | 1 in. |
|                 |                   | Compressor RLA | 42.6 amp |             |               | Pipe Thread      | FPT   |

## HEATING

| Heating Performance |                   | Temperatures (DB/WB °F) |      | Specifications     |         |
|---------------------|-------------------|-------------------------|------|--------------------|---------|
| Output (High/Low)   | 292.0 / 292.0 MBH | Leaving                 | 52.0 | Heat Stages        | 2       |
| Input (High/Low)    | 360.0 / 117.0 MBH |                         |      | Thermal Efficiency | 81.0%   |
| Heat Rise           | 52.0 °F           |                         |      | Gas Line Size      | 1 in.   |
|                     |                   |                         |      | Gas Pressure       | 7 in.WC |

## VENTILATION

| Air Flow (cfm) |       | Supply Fan     |                 | Air Resistance (in.WC) |      |
|----------------|-------|----------------|-----------------|------------------------|------|
| Supply         | 5,200 | Nominal Power  | 5.00 hp         | Total                  | 1.14 |
| Outdoor        | 1,325 | Required Power | 2.74 hp         | Ext Supply             | 1.00 |
|                |       | Drive Type     | MSAV Belt Drive |                        |      |
|                |       | RPM Range      | 850 - 1,045 rpm |                        |      |
|                |       | Required RPM   | 868 rpm         |                        |      |

## AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

| Wet Coil | Humiditrol | Heat | Economizer | Filters | Diffuser | Exhaust | ERW |
|----------|------------|------|------------|---------|----------|---------|-----|
| 0.02     |            | 0.10 |            | 0.02    |          |         |     |

## ELECTRICAL

|                     |                 |                   |          |
|---------------------|-----------------|-------------------|----------|
| Voltage             | 208V 3Ph / 60Hz | Compressor RLA    | 42.6 amp |
| MCA                 | 76 amp          | Cooling FLA Total | 66.8 amp |
| MOCP                | 90 amp          | Condenser FLA     | 7.5 amp  |
| Condenser Power     | 1100 W          | Supply Fan FLA    | 16.7 amp |
| Oper Range-Nom Volt | +/- 10%         |                   |          |

## ADDITIONAL DATA

|                 |                                    |                      |          |
|-----------------|------------------------------------|----------------------|----------|
| Cabinet         | 107.75 in. x 91.12 in. x 54.25 in. | Total Weight         | 2,671 lb |
| Downflow Supply | 20.0 in. x 28.0 in.                | Base Unit Net Weight | 2,014 lb |
| Downflow Return | 15.0 in. x 60.5 in.                | OAS/Econ Weight      | 167 lb   |
| Filters         | (6) 24.0 in. x 24.0 in. x 2.0 in.  | Gas Heat Weight      | 18 lb    |
| Sound Rating    | 86 dBA                             | Diffuser Weight      | 410 lb   |



# Lennox National Accounts Project Submittal

Tag: AC 3 - 13 Ton

## Factory Installed Options

High Performance Economizer Upgrade Factory Installed  
 Global High Performance Economizer  
 Belt Drive  
 Unit Orientation Downflow  
 Supply Fan: Multi-Stage Air Volume Belt  
 208/220/230/240V 3Phase  
 90 Amp Circuit Breaker Factory Installed  
 Built-in BACnet IP and MS/TP (standard)  
 Supply Motor - 5.0 Hp Std- w/ MSAV  
 Supply Drive Kit 4 (850-1045 RPM)  
 Std Static Power Exhaust Fan  
 360K A.S. (Dual Stage)  
 Combination Coil/Hail Guards Factory Installed  
 Hinged Access Doors Factory Installed  
 15A GFCI Factory Installed/Field Wired  
 Supply Air Smoke Detector Factory Installed  
 Return Air Smoke Detector Factory Installed  
 Environ Condenser Coil System Factory Installed  
 2" MERV8 - Filter Factory installed

## Field Installed Accessories

| Catalog Number | Qty | Description                            |
|----------------|-----|--|
| 13K58          | 1   | Flush Ceiling Diffuser Field Installed |
| 54W67          | 6   | 2" MERV8 - Filter Field Installed      |

## Product Features

### Cabinet

Hinged Access Panels  
 Durable Outdoor Enamel Paint Finish  
 Totally Enclosed Outdoor Fan Motor  
 PVC Coated Fan Guard  
 Corrosion-Resistant Drain Pan  
 Isolated Compressor Compartment

### Cooling System

Scroll Compressor  
 Expansion Valves  
 High Capacity Driers  
 Crankcase Heater  
 System can operate from 0°F to 125°F without any additional controls  
 Pre-charged Refrigeration System  
 Internal Pressure Relief Valve

### Heating System

Redundant Automatic Gas Valve with Manual Shut-off  
 Electronic Flame Sensor  
 Direct Spark Ignition  
 Aluminized Steel Inshot Burners  
 If configured for room sensor control, additional staging may be possible. Refer to performance tables within the EHB

### Control System

Fan and Limit Controls  
 Overload Protection  
 Microprocessor Controls – Lennox® CORE Control System  
 Auto reset high & low pressure switch with strike 3 lockout feature in Lennox® CORE Control System  
 Limited warranty on Lennox® CORE Control System of 3 years  
 Built-in BACnet IP & MS/TP  
 Phase/Voltage Detection  
 Return Air Sensor Factory Installed  
 Outdoor Air Sensor Factory Installed  
 Factory Installed Discharge Air Sensor

### Compliance



# Lennox National Accounts Project Submittal

All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8  
All models meet DOE 2018 and 2023 energy efficiency standards  
Model meets California Code of Regulations, Title 24 and ASHRAE 90.1-2016 Section 6.4.3.10 requirements for staged airflow  
Model meets HCAI (formerly OSHPD) OSP and Special Seismic Certification (Number: OSP-0596) and meet 2018 International Building Code (IBC), 2019 California Building Code (CBC) ASCE 7, and ICC-ES AC156  
ISO 9001 Registered Manufacturing Quality System

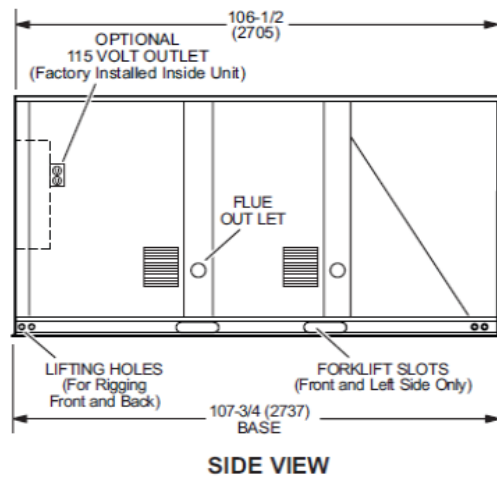
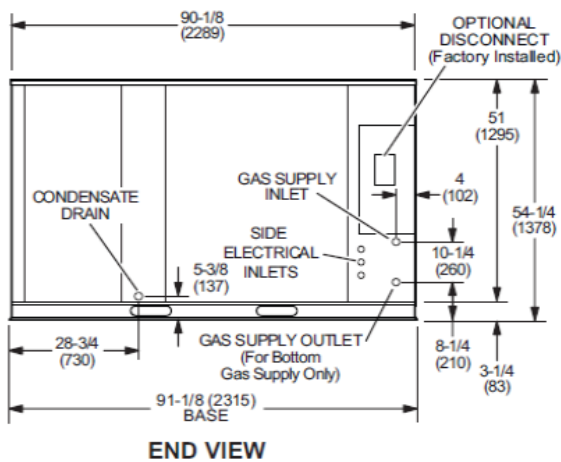
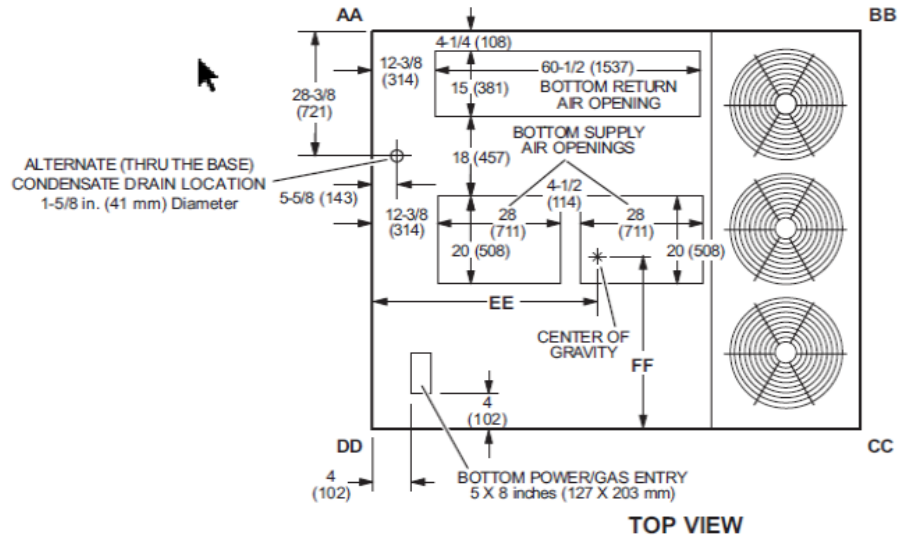
## **Warranty**

Limited warranty on aluminized heat exchanger of 10 years  
Limited warranty on compressor of 5 years  
Limited warranty on Environ Coil System of 3 years  
Limited warranty on High Performance Economizer of 5 years  
Limited warranty on all other components of 1 year  
See Limited Warranty Certificate included with unit for details



# Lennox National Accounts Project Submittal

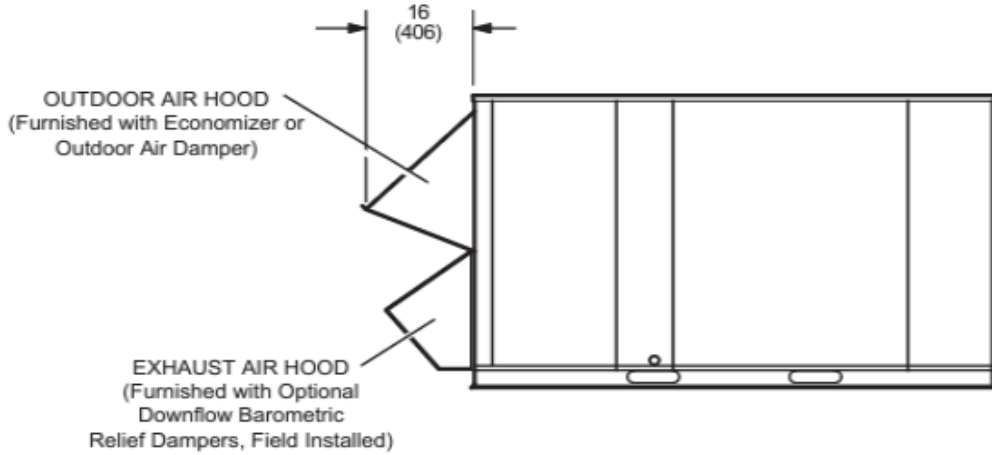
| Corner Weights (lb) |     |      |     |      |     |      |     | Center of Gravity (in.) |       |       |       |
|---------------------|-----|------|-----|------|-----|------|-----|-------------------------|-------|-------|-------|
| AA                  |     | BB   |     | CC   |     | DD   |     | EE                      |       | FF    |       |
| Base                | Max | Base | Max | Base | Max | Base | Max | Base                    | Max   | Base  | Max   |
| 481                 | 596 | 399  | 487 | 514  | 547 | 620  | 669 | 48.85                   | 48.43 | 39.79 | 42.93 |



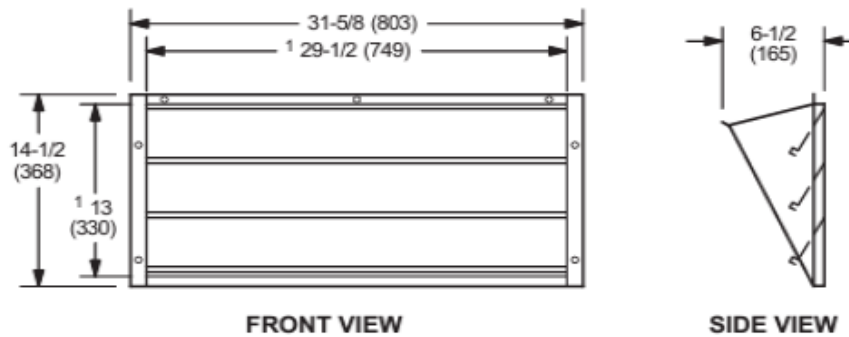


# Lennox National Accounts Project Submittal

## OUTDOOR AIR HOOD DETAIL



## OPTIONAL HORIZONTAL BAROMETRIC RELIEF DAMPERS WITH HOOD (Field installed in horizontal return air duct adjacent to unit)



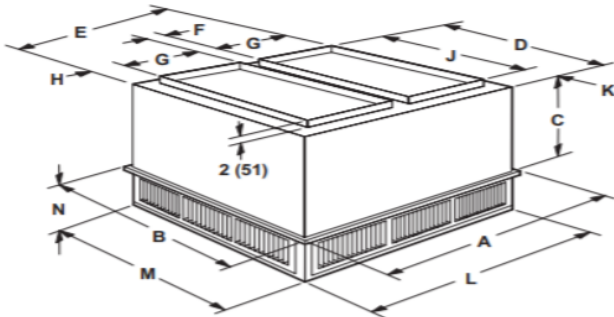
NOTE - Two furnished per order no.  
1 NOTE - Opening size required in return air duct.



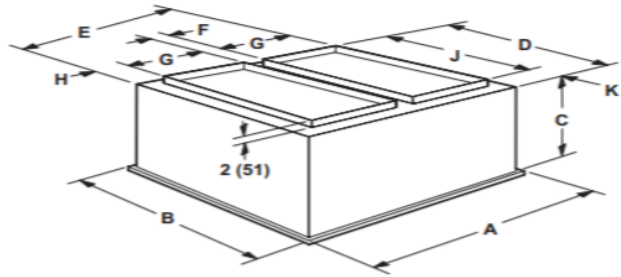
# Lennox National Accounts Project Submittal

## COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

### STEP-DOWN CEILING DIFFUSER



### FLUSH CEILING DIFFUSER

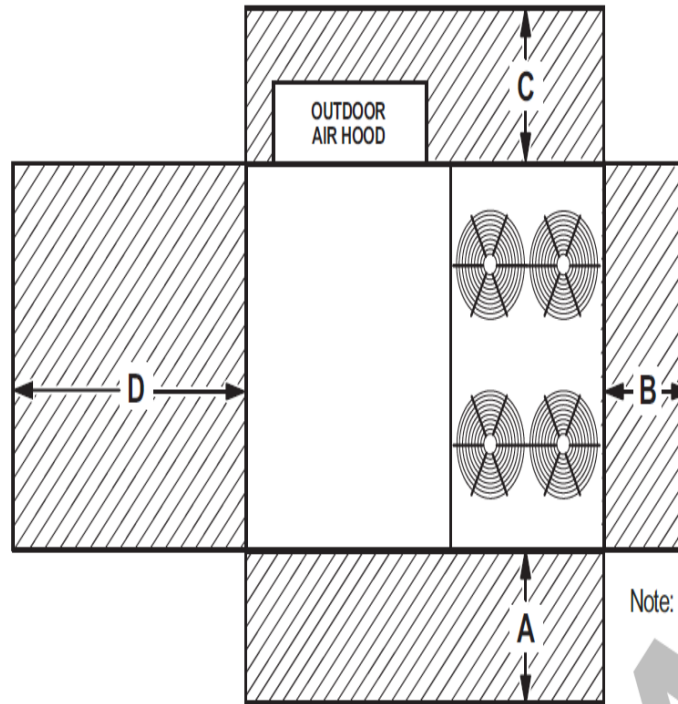


| Model Number |     | RTD11-185S | RTD11-275S |
|--------------|-----|------------|------------|
| A            | in. | 47-5/8     | 59-5/8     |
|              | mm  | 1210       | 1514       |
| B            | in. | 47-5/8     | 59-5/8     |
|              | mm  | 1210       | 1514       |
| C            | in. | 24-5/8     | 30-5/8     |
|              | mm  | 625        | 778        |
| D            | in. | 45-1/2     | 57-1/2     |
|              | mm  | 1156       | 1461       |
| E            | in. | 45-1/2     | 57-1/2     |
|              | mm  | 1156       | 1461       |
| F            | in. | 4-1/2      | 4-1/2      |
|              | mm  | 114        | 114        |
| G            | in. | 18         | 24         |
|              | mm  | 457        | 610        |
| H            | in. | 2-1/2      | 2-1/2      |
|              | mm  | 64         | 64         |
| J            | in. | 36         | 48         |
|              | mm  | 914        | 1219       |
| K            | in. | 4-3/4      | 4-3/4      |
|              | mm  | 121        | 121        |
| L            | in. | 45-1/2     | 57-1/2     |
|              | mm  | 1156       | 1461       |
| M            | in. | 45-1/2     | 57-1/2     |
|              | mm  | 1156       | 1461       |
| N            | in. | 10-1/8     | 11-1/8     |
|              | mm  | 257        | 283        |
| Duct Size    | in. | 18 x 36    | 24 x 48    |
|              | mm  | 457 x 914  | 610 x 1219 |

| Model Number |     | FD11-185S | FD11-275S  |
|--------------|-----|-----------|------------|
| A            | in. | 47-5/8    | 59-5/8     |
|              | mm  | 1210      | 1514       |
| B            | in. | 47-5/8    | 59-5/8     |
|              | mm  | 1210      | 1514       |
| C            | in. | 29-1/4    | 35-1/4     |
|              | mm  | 743       | 895        |
| D            | in. | 45        | 57         |
|              | mm  | 1143      | 1148       |
| E            | in. | 45        | 57         |
|              | mm  | 1143      | 1448       |
| F            | in. | 4-1/2     | 4-1/2      |
|              | mm  | 114       | 114        |
| G            | in. | 18        | 24         |
|              | mm  | 457       | 610        |
| H            | in. | 2-1/4     | 2-1/4      |
|              | mm  | 57        | 57         |
| J            | in. | 36        | 48         |
|              | mm  | 914       | 1219       |
| K            | in. | 4-1/2     | 4-1/2      |
|              | mm  | 114       | 114        |
| Duct Size    | in. | 18 x 36   | 24 x 48    |
|              | mm  | 457 x 914 | 610 x 1219 |



# Lennox National Accounts Project Submittal



Note: Models with four outdoor fans shown.  
Dimension clearances are for all sizes.

| <sup>1</sup> Unit Clearance        | A   |      | B   |     | C   |     | D   |      | Top Clearance |
|------------------------------------|-----|------|-----|-----|-----|-----|-----|------|---------------|
|                                    | in. | mm   | in. | mm  | in. | mm  | in. | mm   |               |
| <b>Service Clearance</b>           | 60  | 1524 | 36  | 914 | 36  | 934 | 66  | 1676 | Unobstructed  |
| <b>Clearance to Combustibles</b>   | 36  | 914  | 1   | 25  | 1   | 25  | 1   | 25   |               |
| <b>Minimum Operation Clearance</b> | 45  | 1143 | 36  | 914 | 36  | 914 | 41  | 1041 |               |

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

<sup>1</sup> Service Clearance - Required for removal of serviceable parts.

Clearance to Combustibles - Required clearance to combustible material.



# Lennox National Accounts Project Submittal

Tag: **AC 4** - 5 Ton

Model: **LGT060H4E** - LGT060H4E-Y 5T CONF S=17.1

## UNIT OVERVIEW

| Voltage          | SEER<br>EER  | MCA/MOCP<br>(amp) | Gross Cooling<br>Ttl/Sens<br>(MBH) | Net Cooling<br>Ttl/Sens<br>(MBH) | Supply<br>Air Flow<br>(cfm) | ESP/TSP<br>(in.WC) | EAT<br>DB/WB<br>(°F) | LAT<br>DB/WB<br>(°F) |
|------------------|--------------|-------------------|------------------------------------|----------------------------------|-----------------------------|--------------------|----------------------|----------------------|
| 208V 3Ph<br>60Hz | 17.1<br>12.7 | 25 / 35           | 58.7 / 47.1                        | 55.3 / 43.7                      | 2,000                       | 1.00 / 1.24        | 74.3 / 61.9          | 51.4 / 51.1          |

## COOLING

| Cooling Performance      |                 | Temperatures (DB/WB °F) |      |
|--------------------------|-----------------|-------------------------|------|
| Gross Cooling (Ttl/Sens) | 58.7 / 47.1 MBH | Ambient                 | 95.0 |
| Net Cooling (Ttl/Sens)   | 55.3 / 43.7 MBH | Entering                | 74.3 |
| Coil Moisture Removal    | 10.91 lb/hr     | Leaving - (Coil)        | 51.4 |
| System Moisture Removal  | 10.91 lb/hr     | Leaving - (Unit)        | 53.0 |
|                          |                 |                         | 51.8 |

| ARI Performance |                 | Compressors    |        | Refrigerant |               | Condensate Drain |       |
|-----------------|-----------------|----------------|--------|-------------|---------------|------------------|-------|
| ARI Cooling     | 61.6 / 60.0 MBH | Cooling Stages | 2.0    | Type        | R-410A        | Qty              | 1     |
| ARI Power       | 4,600 W         | Compressor Qty | 1      | Charge      | 4 LBS. 13 OZ. | Size             | 1 in. |
|                 |                 | Compressor RLA | 14 amp |             |               | Pipe Thread      | npt   |

## HEATING

| Heating Performance |                  | Temperatures (DB/WB °F) |      | Specifications         |         |
|---------------------|------------------|-------------------------|------|------------------------|---------|
| Output (High/Low)   | 87.0 / 66.0 MBH  | Leaving                 | 39.8 | Heat Stages            | 2       |
| Input (High/Low)    | 108.0 / 81.0 MBH |                         |      | Thermal Efficiency NOX | 81.0%   |
| Heat Rise           | 39.8 °F          |                         |      | Gas Line Size          | 0.5 in. |
|                     |                  |                         |      | Gas Pressure           | 7 in.WC |

## VENTILATION

| Air Flow (cfm) |       | Supply Fan     |                   | Air Resistance (in.WC) |      |
|----------------|-------|----------------|-------------------|------------------------|------|
| Supply         | 2,000 | Nominal Power  | 1.50 hp           | Total                  | 1.24 |
| Outdoor        | 250   | Required Power | 1.07 hp           | Ext Supply             | 1.00 |
|                | 0     | Drive Type     | MSAV Direct Drive |                        |      |
|                |       | Required Watts | 801 W             |                        |      |

## AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

| Wet Coil | Humiditrol | Heat | Economizer | Filters | Diffuser | Exhaust | ERW |
|----------|------------|------|------------|---------|----------|---------|-----|
| 0.10     |            | 0.04 | 0.05       | 0.05    |          |         |     |

## ELECTRICAL

|                     |                 |                   |          |
|---------------------|-----------------|-------------------|----------|
| Voltage             | 208V 3Ph / 60Hz | Compressor RLA    | 14.0 amp |
| MCA                 | 25 amp          | Cooling FLA Total | 21.2 amp |
| MOCP                | 35 amp          | Condenser FLA     | 2.8 amp  |
| Condenser Power     | 350 W           | Supply Fan FLA    | 4.4 amp  |
| Oper Range-Nom Volt | +/- 10%         |                   |          |

## ADDITIONAL DATA

|                 |                                   |                      |        |
|-----------------|-----------------------------------|----------------------|--------|
| Cabinet         | 85.25 in. x 47.00 in. x 46.88 in. | Total Weight         | 769 lb |
| Downflow Supply | 20.0 in. x 18.0 in.               | Base Unit Net Weight | 630 lb |
| Downflow Return | 29.0 in. x 11.0 in.               | OAS/Econ Weight      | 131 lb |
| Filters         | (4) 20.0 in. x 20.0 in. x 2.0 in. | Gas Heat Weight      | 8 lb   |
| Sound Rating    | 82 dBA                            |                      |        |



# Lennox National Accounts Project Submittal

**Tag:** AC 4 - 5 Ton

## Factory Installed Options

- High Performance Economizer Upgrade Factory Installed
- Global High Performance Economizer
- Direct Drive
- Unit Orientation Downflow
- Supply Fan: Multi-Speed ECM Direct Drive
- 208/220/230/240V 3Phase
- 80Amp Disconnect Factory Installed
- Built-in BACnet IP and MS/TP (standard)
- Supply Motor - 1.5 Hp ECM - w/ MSAV
- Barometric Relief Damper (Fac)
- 108K A.S. (Dual Stage)
- Low Nox Factory Installed
- Combination Coil/Hail Guards Factory Installed
- Hinged Access Doors Factory Installed
- 15A GFCI Factory Installed/Field Wired
- Phase/Voltage Detection Factory Installed
- Supply Air Smoke Detector Factory Installed
- Return Air Smoke Detector Factory Installed
- Environ Condenser Coil System Factory Installed
- 2" MERV8 - Filter Factory installed

## Field Installed Accessories

| Catalog Number | Qty | Description                       |
|----------------|-----|-----------------------------------|
| 54W21          | 4   | 2" MERV8 - Filter Field Installed |

## Product Features

### Cabinet

- Hinged Access Panels
- Durable Outdoor Enamel Paint Finish
- Totally Enclosed Outdoor Fan Motor
- PVC Coated Fan Guard
- Corrosion-Resistant Removable, Reversible Drain Pan
- Isolated Compressor Compartment

### Cooling System

- Scroll Compressor
- Expansion Valves
- High Capacity Driers
- Crankcase Heater
- System can operate from 0°F to 125°F without any additional controls
- Pre-charged Refrigeration System
- Internal Pressure Relief Valve

### Heating System

- Redundant Automatic Gas Valve with Manual Shut-off
- Electronic Flame Sensor
- Direct Spark Ignition
- Aluminized Steel Inshot Burners
- If configured for room sensor control, additional staging may be possible. Refer to performance tables within the EHB

### Control System

- Fan and Limit Controls
- Overload Protection
- Microprocessor Controls – Lennox® CORE Control System
- Auto reset high & low pressure switch with strike 3 lockout feature in Lennox® CORE Control System
- Limited warranty on Lennox® CORE Control System of 3 years
- Built-in BACnet IP & MS/TP
- Return Air Sensor Factory Installed
- Outdoor Air Sensor Factory Installed
- Factory Installed Discharge Air Sensor

### Compliance

All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8



# Lennox National Accounts Project Submittal

All models meet DOE 2018 and 2023 energy efficiency standards

Model meets California Code of Regulations, Title 24 and ASHRAE 90.1-2016 Section 6.4.3.10 requirements for staged airflow

Model meets HCAI (formerly OSHPD) OSP and Special Seismic Certification (Number: OSP-0596) and meet 2018 International Building Code (IBC), 2019

California Building Code (CBC) ASCE 7, and ICC-ES AC156

ISO 9001 Registered Manufacturing Quality System

## **Warranty**

Limited warranty on aluminized heat exchanger of 10 years

Limited warranty on compressor of 5 years

Limited warranty on Environ Coil System of 3 years

Limited warranty on High Performance Economizer of 5 years

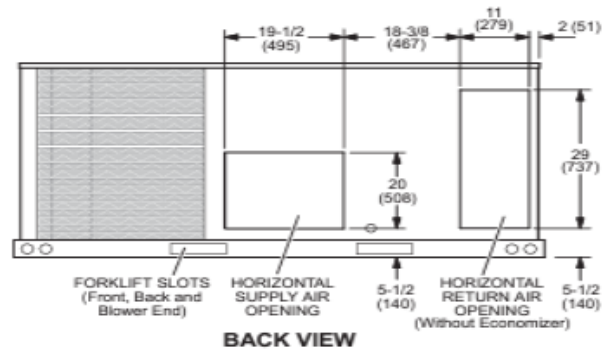
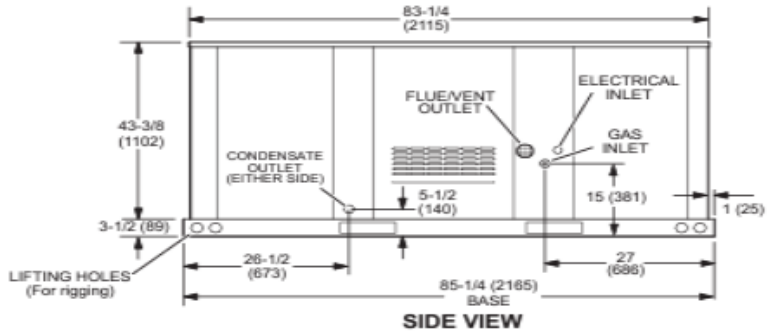
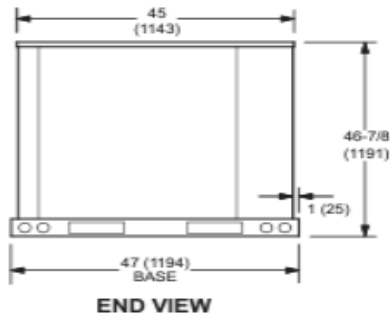
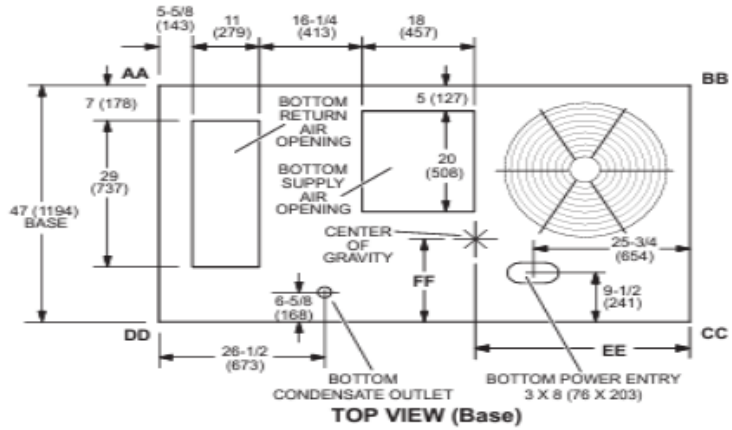
Limited warranty on all other components of 1 year

See Limited Warranty Certificate included with unit for details



# Lennox National Accounts Project Submittal

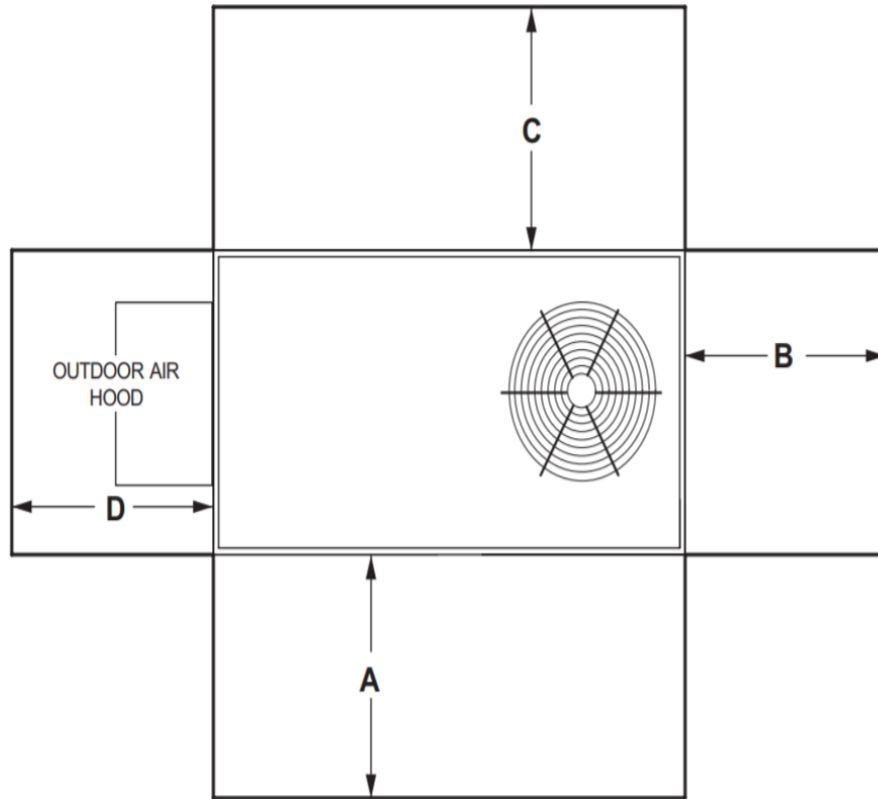
| Corner Weights (lb) |     |      |     |      |     | Center of Gravity (in.) |     |       |       |       |       |
|---------------------|-----|------|-----|------|-----|-------------------------|-----|-------|-------|-------|-------|
| AA                  |     | BB   |     | CC   |     | DD                      |     | EE    |       | FF    |       |
| Base                | Max | Base | Max | Base | Max | Base                    | Max | Base  | Max   | Base  | Max   |
| 131                 | 168 | 161  | 207 | 220  | 283 | 179                     | 230 | 38.25 | 39.75 | 19.88 | 19.88 |





# Lennox National Accounts Project Submittal

## UNIT CLEARANCES



| ¹ Unit Clearance            | A   |      | B   |     | C   |     | D   |     | Top Clearance |
|-----------------------------|-----|------|-----|-----|-----|-----|-----|-----|---------------|
|                             | in. | mm   | in. | mm  | in. | mm  | in. | mm  |               |
| Service Clearance           | 48  | 1219 | 36  | 914 | 36  | 934 | 36  | 914 | Unobstructed  |
| Clearance to Combustibles   | 36  | 914  | 1   | 25  | 1   | 25  | 1   | 25  |               |
| Minimum Operation Clearance | 36  | 914  | 36  | 914 | 36  | 914 | 36  | 914 |               |

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

¹ **Service Clearance** - Required for removal of serviceable parts.

**Clearance to Combustibles** - Required clearance to combustible material.

**Minimum Operation Clearance** - Required clearance for proper unit operation.



# Lennox National Accounts Project Submittal

Tag:

AC 5 - 7.5 Ton

Model:

LGT092H4E - LGT092H4E-Y 7.5T CONF E=12.3

## UNIT OVERVIEW

| Voltage          | IEER<br>EER  | MCA/MOCP<br>(amp) | Gross Cooling<br>Ttl/Sens<br>(MBH) | Net Cooling<br>Ttl/Sens<br>(MBH) | Supply<br>Air Flow<br>(cfm) | ESP/TSP<br>(in.WC) | EAT<br>DB/WB<br>(°F) | LAT<br>DB/WB<br>(°F) |
|------------------|--------------|-------------------|------------------------------------|----------------------------------|-----------------------------|--------------------|----------------------|----------------------|
| 208V 3Ph<br>60Hz | 15.7<br>12.3 | 46 / 50           | 92.4 / 68.8                        | 87.3 / 63.6                      | 3,000                       | 1.00 / 1.37        | 77.0 / 64.2          | 54.5 / 53.3          |

## COOLING

| Cooling Performance      |                 | Temperatures (DB/WB °F) |      |
|--------------------------|-----------------|-------------------------|------|
| Gross Cooling (Ttl/Sens) | 92.4 / 68.8 MBH | Ambient                 | 95.0 |
| Net Cooling (Ttl/Sens)   | 87.3 / 63.6 MBH | Entering                | 77.0 |
| Coil Moisture Removal    | 22.27 lb/hr     | Leaving - (Coil)        | 54.5 |
| System Moisture Removal  | 22.27 lb/hr     | Leaving - (Unit)        | 56.3 |

| ARI Performance |                 | Compressors    |        | Refrigerant |               | Condensate Drain |       |
|-----------------|-----------------|----------------|--------|-------------|---------------|------------------|-------|
| ARI Cooling     | 93.0 / 90.0 MBH | Cooling Stages | 3.0    | Type        | R-410A        | Qty              | 1     |
| ARI Power       | 7,500 W         | Compressor Qty | 2      | Charge      | 14 LBS. 0 OZ. | Size             | 1 in. |
|                 |                 | Compressor RLA | 26 amp |             |               | Pipe Thread      | npt   |

## HEATING

| Heating Performance |                   | Temperatures (DB/WB °F) |      | Specifications     |          |
|---------------------|-------------------|-------------------------|------|--------------------|----------|
| Output (High/Low)   | 144.0 / 93.6 MBH  | Leaving                 | 44.4 | Heat Stages        | 2        |
| Input (High/Low)    | 180.0 / 117.0 MBH |                         |      | Thermal Efficiency | 80.0%    |
| Heat Rise           | 44.4 °F           |                         |      | Gas Line Size      | 0.75 in. |
|                     |                   |                         |      | Gas Pressure       | 7 in.WC  |

## VENTILATION

| Air Flow (cfm) |       | Supply Fan     |                  | Air Resistance (in.WC) |      |
|----------------|-------|----------------|------------------|------------------------|------|
| Supply         | 3,000 | Nominal Power  | 3.75 hp          | Total                  | 1.37 |
| Outdoor        | 825   | Required Power | 1.63 hp          | Ext Supply             | 1.00 |
|                | 0     | Drive Type     | ECM Direct Drive |                        |      |
|                |       | Required Watts | 1,215 W          |                        |      |

## AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

| Wet Coil | Humiditrol | Heat | Economizer | Filters | Diffuser | Exhaust | ERW |
|----------|------------|------|------------|---------|----------|---------|-----|
| 0.10     |            | 0.12 | 0.13       | 0.02    |          |         |     |

## ELECTRICAL

|                     |                 |                   |          |
|---------------------|-----------------|-------------------|----------|
| Voltage             | 208V 3Ph / 60Hz | Compressor RLA    | 26.0 amp |
| MCA                 | 46 amp          | Cooling FLA Total | 39.5 amp |
| MOCP                | 50 amp          | Condenser FLA     | 4.8 amp  |
| Condenser Power     | 860 W           | Supply Fan FLA    | 8.7 amp  |
| Oper Range-Nom Volt | +/- 10%         |                   |          |

## ADDITIONAL DATA

|                 |                                    |                      |          |
|-----------------|------------------------------------|----------------------|----------|
| Cabinet         | 101.25 in. x 60.12 in. x 46.88 in. | Total Weight         | 1,426 lb |
| Downflow Supply | 20.0 in. x 28.0 in.                | Base Unit Net Weight | 1,168 lb |
| Downflow Return | 24.0 in. x 27.0 in.                | OAS/Econ Weight      | 83 lb    |
| Filters         | (4) 20.0 in. x 25.0 in. x 2.0 in.  | Gas Heat Weight      | 9 lb     |
| Sound Rating    | 88 dBA                             | Diffuser Weight      | 135 lb   |



# Lennox National Accounts Project Submittal

Tag: AC 5 - 7.5 Ton

### Factory Installed Options

- High Performance Economizer Upgrade Factory Installed
- Global High Performance Economizer
- Direct Drive
- Unit Orientation Downflow
- Supply Fan: Multi-Speed ECM Direct Drive
- 208/220/230/240V 3Phase
- 80Amp Disconnect Factory Installed
- Built-in BACnet IP and MS/TP (standard)
- Supply Motor - 3.75 Hp - DirectPlus w/MSAV
- Std Static Power Exhaust Fan
- 180K A.S. (Dual Stage)
- Combination Coil/Hail Guards Factory Installed
- Hinged Access Doors Factory Installed
- 15A GFCI Factory Installed/Field Wired
- Supply Air Smoke Detector Factory Installed
- Return Air Smoke Detector Factory Installed
- Environ Condenser Coil System Factory Installed
- 2" MERV8 - Filter Factory installed

### Field Installed Accessories

| Catalog Number | Qty | Description                            |
|----------------|-----|--|
| 13K56          | 1   | Flush Ceiling Diffuser Field Installed |
| 50W61          | 4   | 2" MERV8 - Filter Field Installed      |

### Product Features

#### Cabinet

- Hinged Access Panels
- Durable Outdoor Enamel Paint Finish
- Totally Enclosed Outdoor Fan Motor
- PVC Coated Fan Guard
- Corrosion-Resistant Removable, Reversible Drain Pan
- Isolated Compressor Compartment

#### Cooling System

- Scroll Compressor
- Expansion Valves
- High Capacity Driers
- Crankcase Heater
- System can operate from 0°F to 125°F without any additional controls
- Pre-charged Refrigeration System
- Internal Pressure Relief Valve

#### Heating System

- Redundant Automatic Gas Valve with Manual Shut-off
- Electronic Flame Sensor
- Direct Spark Ignition
- Aluminized Steel Inshot Burners
- If configured for room sensor control, additional staging may be possible. Refer to performance tables within the EHB

#### Control System

- Fan and Limit Controls
- Overload Protection
- Microprocessor Controls – Lennox® CORE Control System
- Auto reset high & low pressure switch with strike 3 lockout feature in Lennox® CORE Control System
- Limited warranty on Lennox® CORE Control System of 3 years
- Built-in BACnet IP & MS/TP
- Phase/Voltage Detection
- Return Air Sensor Factory Installed
- Outdoor Air Sensor Factory Installed
- Factory Installed Discharge Air Sensor

#### Compliance

All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8



# Lennox National Accounts Project Submittal

All models meet DOE 2018 and 2023 energy efficiency standards

Model meets California Code of Regulations, Title 24 and ASHRAE 90.1-2016 Section 6.4.3.10 requirements for staged airflow

Model meets HCAI (formerly OSHPD) OSP and Special Seismic Certification (Number: OSP-0596) and meet 2018 International Building Code (IBC), 2019

California Building Code (CBC) ASCE 7, and ICC-ES AC156

ISO 9001 Registered Manufacturing Quality System

## **Warranty**

Limited warranty on aluminized heat exchanger of 10 years

Limited warranty on compressor of 5 years

Limited warranty on Environ Coil System of 3 years

Limited warranty on High Performance Economizer of 5 years

Limited warranty on all other components of 1 year

See Limited Warranty Certificate included with unit for details



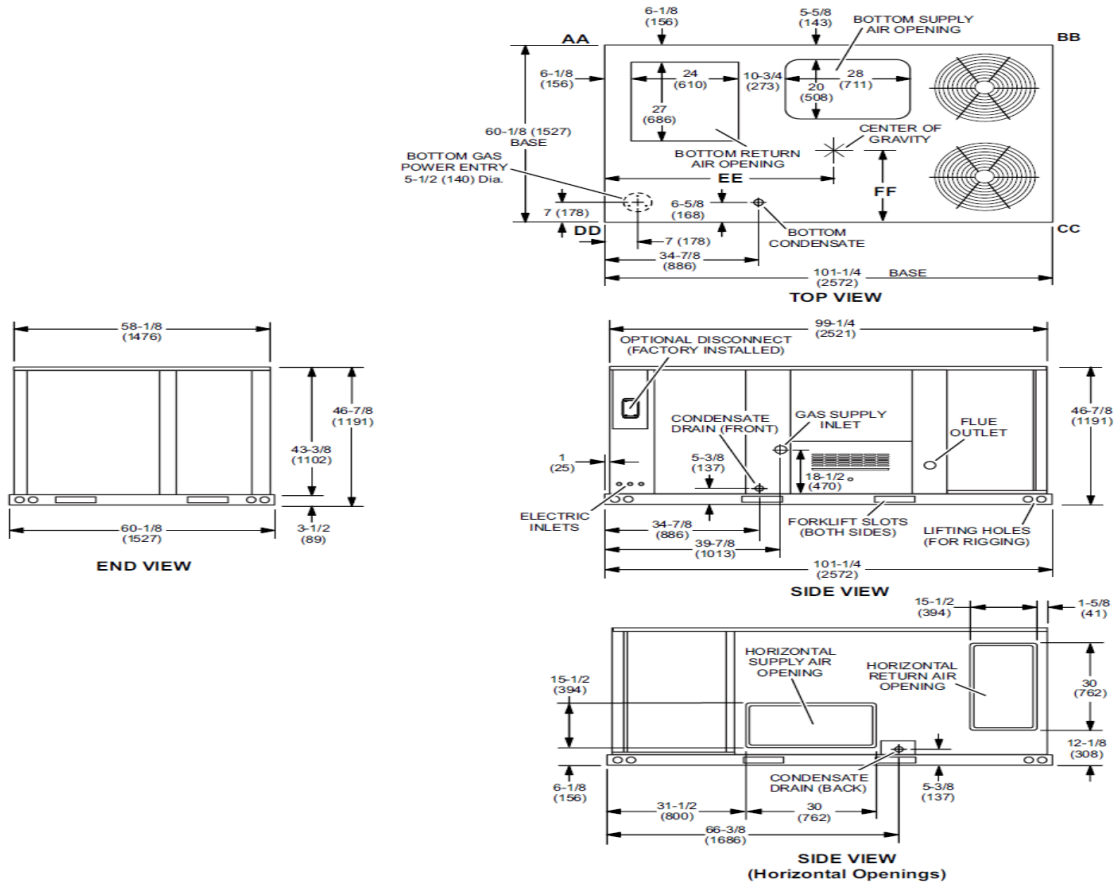
# Lennox National Accounts Project Submittal

| Corner Weights (lb) |     |      |     |      |     |      |     | Center of Gravity (in.) |       |       |       |
|---------------------|-----|------|-----|------|-----|------|-----|-------------------------|-------|-------|-------|
| AA                  |     | BB   |     | CC   |     | DD   |     | EE                      |       | FF    |       |
| Base                | Max | Base | Max | Base | Max | Base | Max | Base                    | Max   | Base  | Max   |
| 293                 | 338 | 263  | 295 | 286  | 316 | 326  | 370 | 46.50                   | 45.50 | 24.50 | 25.50 |

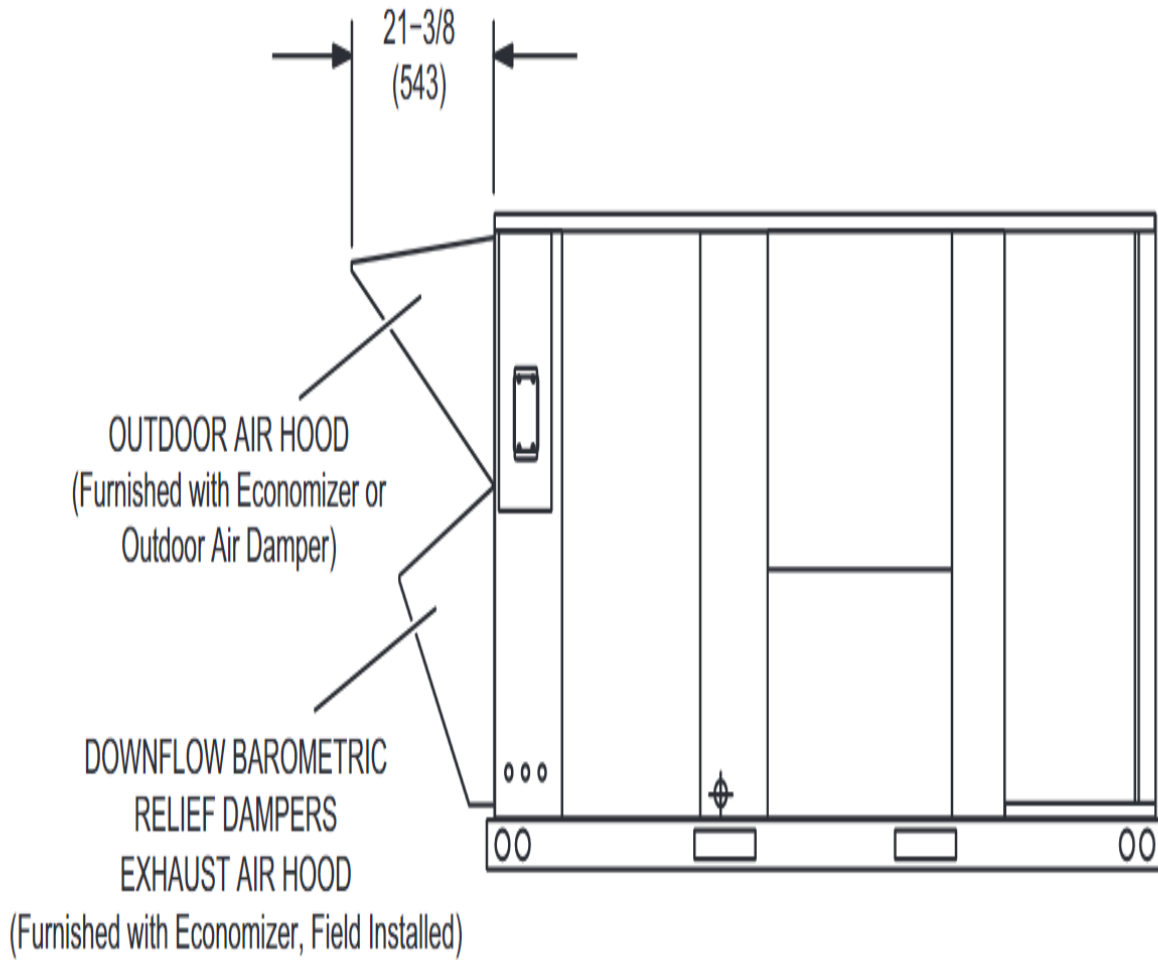
| Model No. | DIMENSIONS     |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     | UNIT              |      |      |      |      |     |      |     |
|-----------|----------------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|-------------------|------|------|------|------|-----|------|-----|
|           | CORNER WEIGHTS |     |      |     |      |     |      |     |      |     |      |     |      |     |      |     | CENTER OF GRAVITY |      |      |      |      |     |      |     |
|           | AA             |     | BB   |     | CC   |     | DD   |     | EE   |     | FF   |     | Base |     | Max. |     | Base              |      | Max. |      |      |     |      |     |
|           | lbs.           | kg  | lbs. | kg  | lbs. | kg  | lbs. | kg  | lbs. | kg  | lbs. | kg  | lbs. | kg  | in.  | mm  | in.               | mm   | in.  | mm   |      |     |      |     |
| 092       | 293            | 133 | 338  | 153 | 263  | 119 | 295  | 134 | 286  | 130 | 316  | 143 | 326  | 148 | 370  | 168 | 46.5              | 1181 | 45.5 | 1156 | 24.5 | 622 | 25.5 | 648 |
| 102       | 294            | 134 | 340  | 154 | 265  | 120 | 297  | 135 | 288  | 131 | 318  | 144 | 328  | 149 | 372  | 169 | 46.5              | 1181 | 45.5 | 1156 | 24.5 | 622 | 25.5 | 648 |
| 120       | 306            | 139 | 349  | 158 | 275  | 125 | 305  | 138 | 295  | 134 | 326  | 148 | 334  | 152 | 382  | 173 | 46.5              | 1181 | 45.5 | 1156 | 24.5 | 622 | 25.5 | 648 |
| 150       | 316            | 143 | 359  | 163 | 284  | 129 | 314  | 142 | 304  | 138 | 393  | 178 | 345  | 157 | 393  | 178 | 46.5              | 1181 | 45.5 | 1156 | 24.5 | 622 | 25.5 | 648 |

Base Unit - The unit with NO INTERNAL OPTIONS.

Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit or high static power exhaust.



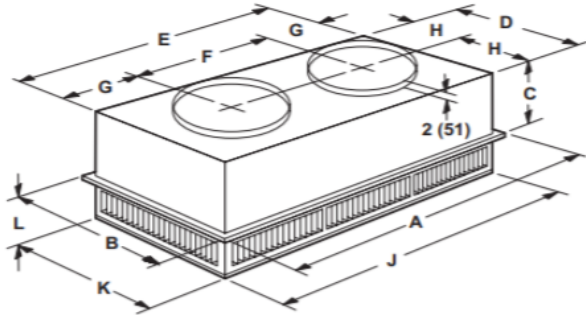
## OUTDOOR AIR HOOD DETAIL



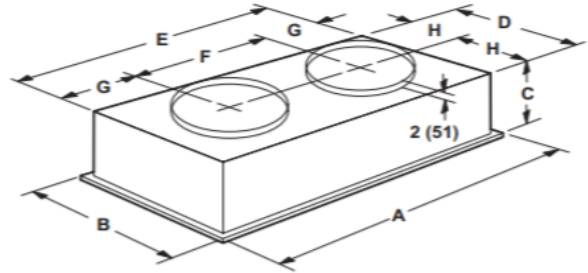


# Lennox National Accounts Project Submittal

## COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS STEP-DOWN CEILING DIFFUSER



## FLUSH CEILING DIFFUSER



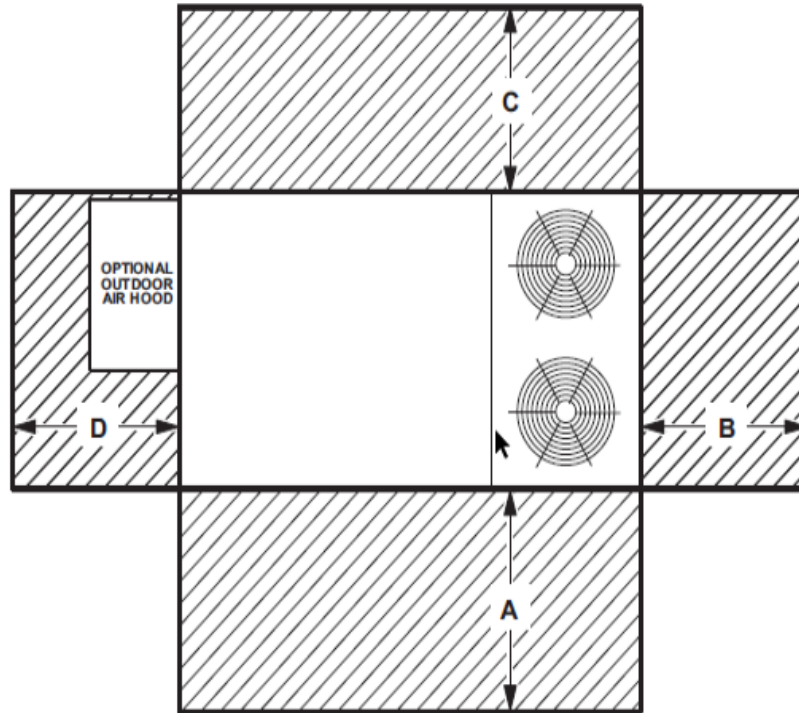
| Model Number |     | RTD11-95S |
|--------------|-----|-----------|
| A            | in. | 47-5/8    |
|              | mm  | 1159      |
| B            | in. | 29-5/8    |
|              | mm  | 752       |
| C            | in. | 14-3/8    |
|              | mm  | 365       |
| D            | in. | 27-1/2    |
|              | mm  | 699       |
| E            | in. | 45-1/2    |
|              | mm  | 1158      |
| F            | in. | 22-1/2    |
|              | mm  | 572       |
| G            | in. | 11-1/2    |
|              | mm  | 292       |
| H            | in. | 13-3/4    |
|              | mm  | 349       |
| J            | in. | 45-1/2    |
|              | mm  | 1156      |
| K            | in. | 27-1/2    |
|              | mm  | 699       |
| L            | in. | 8-1/8     |
|              | mm  | 206       |
| Duct Size    | in. | 20 round  |
|              | mm  | 508 round |

| Model Number |     | FD11-95S  |
|--------------|-----|-----------|
| A            | in. | 47-5/8    |
|              | mm  | 1159      |
| B            | in. | 29-5/8    |
|              | mm  | 752       |
| C            | in. | 16-5/8    |
|              | mm  | 422       |
| D            | in. | 27        |
|              | mm  | 686       |
| E            | in. | 45        |
|              | mm  | 1143      |
| F            | in. | 22-1/2    |
|              | mm  | 572       |
| G            | in. | 11-1/4    |
|              | mm  | 286       |
| H            | in. | 13-1/2    |
|              | mm  | 343       |
| Duct Size    | in. | 20 round  |
|              | mm  | 508 round |



# Lennox National Accounts Project Submittal

## UNIT CLEARANCES



| ¹ Unit Clearance                   | A   |      | B   |     | C   |     | D   |      | Top Clearance |
|------------------------------------|-----|------|-----|-----|-----|-----|-----|------|---------------|
|                                    | in. | mm   | in. | mm  | in. | mm  | in. | mm   |               |
| <b>Service Clearance</b>           | 60  | 1524 | 36  | 914 | 36  | 934 | 60  | 1524 | Unobstructed  |
| <b>Clearance to Combustibles</b>   | 36  | 914  | 1   | 25  | 1   | 25  | 1   | 25   |               |
| <b>Minimum Operation Clearance</b> | 36  | 914  | 36  | 914 | 36  | 914 | 36  | 914  |               |

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

¹ Service Clearance - Required for removal of serviceable parts.

Clearance to Combustibles - Required clearance to combustible material.

Minimum Operation Clearance - Required clearance for proper unit operation.



# Lennox National Accounts Project Submittal

Tag: **AC 6 & 7** - 13 Ton  
 Model: **LGT156H4M** - LGT156H4M-Y 13T CONF E=12.0

## UNIT OVERVIEW

| Voltage          | I EER<br>EER | MCA/MOCP<br>(amp) | Gross Cooling<br>Ttl/Sens<br>(MBH) | Net Cooling<br>Ttl/Sens<br>(MBH) | Supply<br>Air Flow<br>(cfm) | ESP/TSP<br>(in.WC) | EAT<br>DB/WB<br>(°F) | LAT<br>DB/WB<br>(°F) |
|------------------|--------------|-------------------|------------------------------------|----------------------------------|-----------------------------|--------------------|----------------------|----------------------|
| 208V 3Ph<br>60Hz | 15.5<br>12   | 76 / 90           | 155.6 / 122.1                      | 147.6 / 114.1                    | 5,200                       | 1.00 / 1.14        | 77.0 / 64.2          | 54.0 / 53.6          |

## COOLING

| Cooling Performance      |                   | Temperatures (DB/WB °F) |      |
|--------------------------|-------------------|-------------------------|------|
| Gross Cooling (Ttl/Sens) | 155.6 / 122.1 MBH | Ambient                 | 95.0 |
| Net Cooling (Ttl/Sens)   | 147.6 / 114.1 MBH | Entering                | 77.0 |
| Coil Moisture Removal    | 31.52 lb/hr       | Leaving - (Coil)        | 54.0 |
| System Moisture Removal  | 31.52 lb/hr       | Leaving - (Unit)        | 55.5 |

| ARI Performance |                   | Compressors    |          | Refrigerant |               | Condensate Drain |       |
|-----------------|-------------------|----------------|----------|-------------|---------------|------------------|-------|
| ARI Cooling     | 152.0 / 148.0 MBH | Cooling Stages | 3.0      | Type        | R-410A        | Qty              | 1     |
| ARI Power       | 12,300 W          | Compressor Qty | 2        | Charge      | 17 LBS. 8 OZ. | Size             | 1 in. |
|                 |                   | Compressor RLA | 42.6 amp |             |               | Pipe Thread      | FPT   |

## HEATING

| Heating Performance |                   | Temperatures (DB/WB °F) |      | Specifications     |         |
|---------------------|-------------------|-------------------------|------|--------------------|---------|
| Output (High/Low)   | 292.0 / 292.0 MBH | Leaving                 | 52.0 | Heat Stages        | 2       |
| Input (High/Low)    | 360.0 / 117.0 MBH |                         |      | Thermal Efficiency | 81.0%   |
| Heat Rise           | 52.0 °F           |                         |      | Gas Line Size      | 1 in.   |
|                     |                   |                         |      | Gas Pressure       | 7 in.WC |

## VENTILATION

| Air Flow (cfm) |       | Supply Fan     |                 | Air Resistance (in.WC) |      |
|----------------|-------|----------------|-----------------|------------------------|------|
| Supply         | 5,200 | Nominal Power  | 5.00 hp         | Total                  | 1.14 |
| Outdoor        | 1,425 | Required Power | 2.74 hp         | Ext Supply             | 1.00 |
|                |       | Drive Type     | MSAV Belt Drive |                        |      |
|                |       | RPM Range      | 850 - 1,045 rpm |                        |      |
|                |       | Required RPM   | 868 rpm         |                        |      |

## AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

| Wet Coil | Humiditrol | Heat | Economizer | Filters | Diffuser | Exhaust | ERW |
|----------|------------|------|------------|---------|----------|---------|-----|
| 0.02     |            | 0.10 |            | 0.02    |          |         |     |

## ELECTRICAL

|                     |                 |                   |          |
|---------------------|-----------------|-------------------|----------|
| Voltage             | 208V 3Ph / 60Hz | Compressor RLA    | 42.6 amp |
| MCA                 | 76 amp          | Cooling FLA Total | 66.8 amp |
| MOCP                | 90 amp          | Condenser FLA     | 7.5 amp  |
| Condenser Power     | 1100 W          | Supply Fan FLA    | 16.7 amp |
| Oper Range-Nom Volt | +/- 10%         |                   |          |

## ADDITIONAL DATA

|                 |                                    |                      |          |
|-----------------|------------------------------------|----------------------|----------|
| Cabinet         | 107.75 in. x 91.12 in. x 54.25 in. | Total Weight         | 2,671 lb |
| Downflow Supply | 20.0 in. x 28.0 in.                | Base Unit Net Weight | 2,014 lb |
| Downflow Return | 15.0 in. x 60.5 in.                | OAS/Econ Weight      | 167 lb   |
| Filters         | (6) 24.0 in. x 24.0 in. x 2.0 in.  | Gas Heat Weight      | 18 lb    |
| Sound Rating    | 86 dBA                             | Diffuser Weight      | 410 lb   |



# Lennox National Accounts Project Submittal

Tag: AC 6 & 7 - 13 Ton

## Factory Installed Options

- High Performance Economizer Upgrade Factory Installed
- Global High Performance Economizer
- Belt Drive
- Unit Orientation Downflow
- Supply Fan: Multi-Stage Air Volume Belt
- 208/220/230/240V 3Phase
- 90 Amp Circuit Breaker Factory Installed
- Built-in BACnet IP and MS/TP (standard)
- Supply Motor - 5.0 Hp Std- w/ MSAV
- Supply Drive Kit 4 (850-1045 RPM)
- Std Static Power Exhaust Fan
- 360K A.S. (Dual Stage)
- Combination Coil/Hail Guards Factory Installed
- Hinged Access Doors Factory Installed
- 15A GFCI Factory Installed/Field Wired
- Supply Air Smoke Detector Factory Installed
- Return Air Smoke Detector Factory Installed
- Environ Condenser Coil System Factory Installed
- 2" MERV8 - Filter Factory installed

## Field Installed Accessories

| Catalog Number | Qty | Description                            |
|----------------|-----|--|
| 13K58          | 2   | Flush Ceiling Diffuser Field Installed |
| 54W67          | 12  | 2" MERV8 - Filter Field Installed      |

## Product Features

### Cabinet

- Hinged Access Panels
- Durable Outdoor Enamel Paint Finish
- Totally Enclosed Outdoor Fan Motor
- PVC Coated Fan Guard
- Corrosion-Resistant Drain Pan
- Isolated Compressor Compartment

### Cooling System

- Scroll Compressor
- Expansion Valves
- High Capacity Driers
- Crankcase Heater
- System can operate from 0°F to 125°F without any additional controls
- Pre-charged Refrigeration System
- Internal Pressure Relief Valve

### Heating System

- Redundant Automatic Gas Valve with Manual Shut-off
- Electronic Flame Sensor
- Direct Spark Ignition
- Aluminized Steel Inshot Burners
- If configured for room sensor control, additional staging may be possible. Refer to performance tables within the EHB

### Control System

- Fan and Limit Controls
- Overload Protection
- Microprocessor Controls – Lennox® CORE Control System
- Auto reset high & low pressure switch with strike 3 lockout feature in Lennox® CORE Control System
- Limited warranty on Lennox® CORE Control System of 3 years
- Built-in BACnet IP & MS/TP
- Phase/Voltage Detection
- Return Air Sensor Factory Installed
- Outdoor Air Sensor Factory Installed
- Factory Installed Discharge Air Sensor

### Compliance



# Lennox National Accounts Project Submittal

All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8  
All models meet DOE 2018 and 2023 energy efficiency standards  
Model meets California Code of Regulations, Title 24 and ASHRAE 90.1-2016 Section 6.4.3.10 requirements for staged airflow  
Model meets HCAI (formerly OSHPD) OSP and Special Seismic Certification (Number: OSP-0596) and meet 2018 International Building Code (IBC), 2019  
California Building Code (CBC) ASCE 7, and ICC-ES AC156  
ISO 9001 Registered Manufacturing Quality System

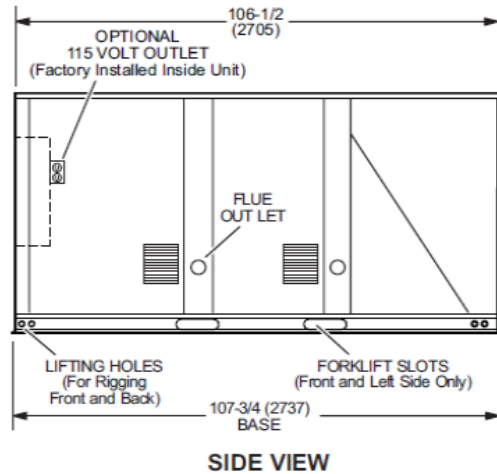
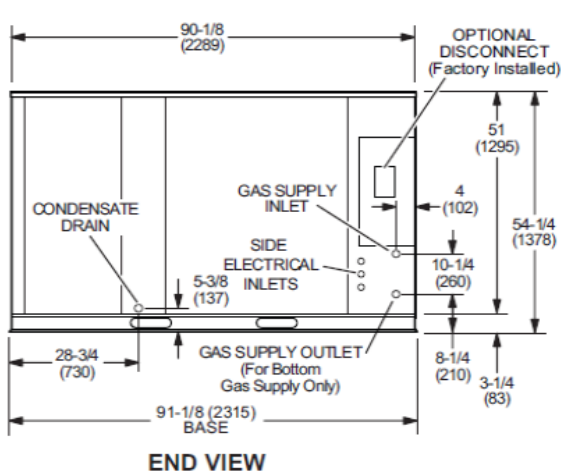
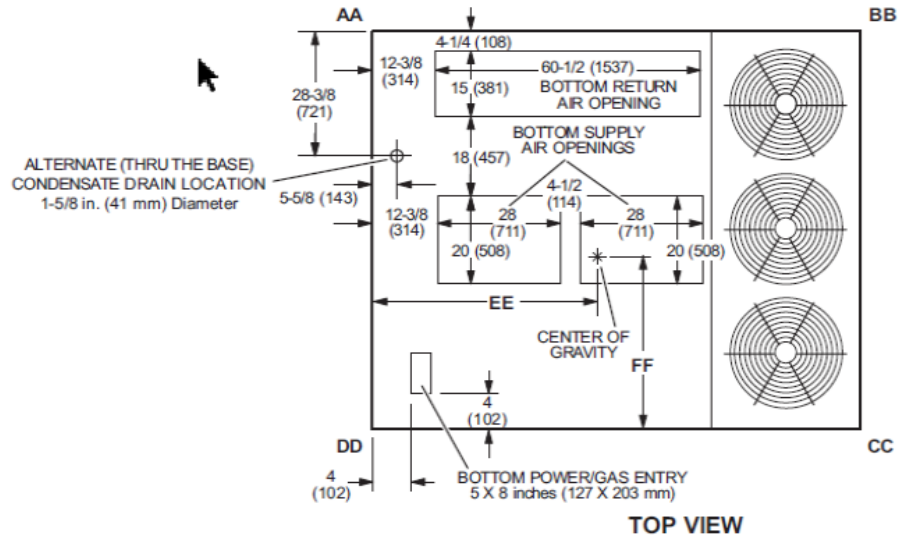
## **Warranty**

Limited warranty on aluminized heat exchanger of 10 years  
Limited warranty on compressor of 5 years  
Limited warranty on Environ Coil System of 3 years  
Limited warranty on High Performance Economizer of 5 years  
Limited warranty on all other components of 1 year  
See Limited Warranty Certificate included with unit for details



# Lennox National Accounts Project Submittal

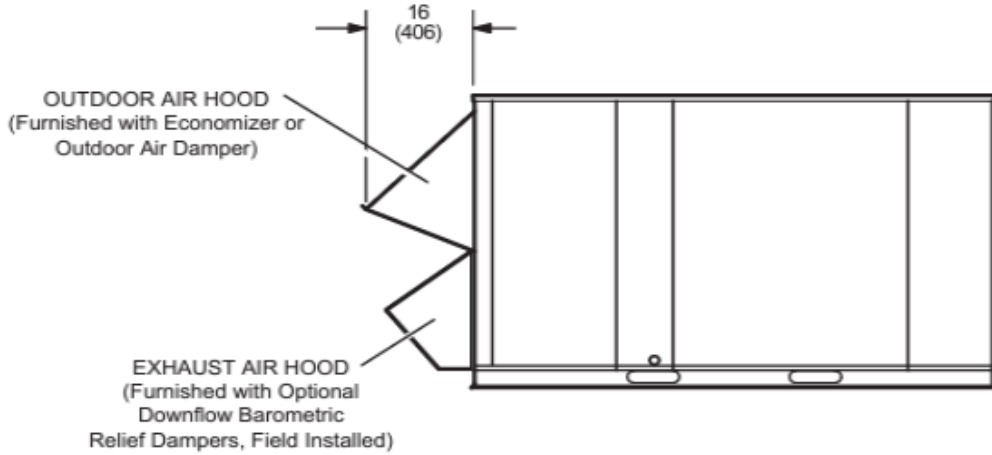
| Corner Weights (lb) |     |      |     |      |     |      |     | Center of Gravity (in.) |       |       |       |
|---------------------|-----|------|-----|------|-----|------|-----|-------------------------|-------|-------|-------|
| AA                  |     | BB   |     | CC   |     | DD   |     | EE                      |       | FF    |       |
| Base                | Max | Base | Max | Base | Max | Base | Max | Base                    | Max   | Base  | Max   |
| 481                 | 596 | 399  | 487 | 514  | 547 | 620  | 669 | 48.85                   | 48.43 | 39.79 | 42.93 |



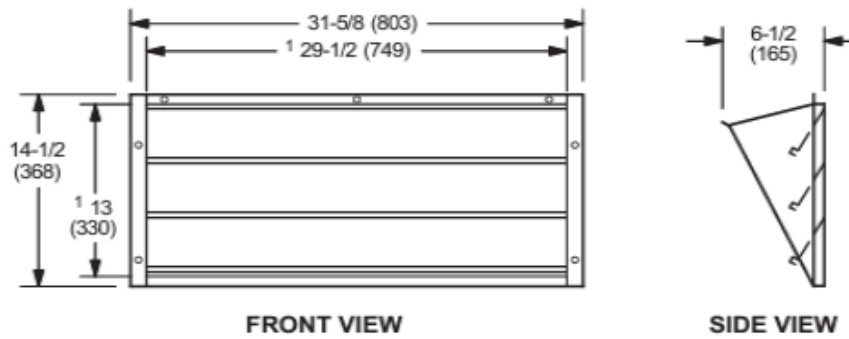


# Lennox National Accounts Project Submittal

## OUTDOOR AIR HOOD DETAIL



## OPTIONAL HORIZONTAL BAROMETRIC RELIEF DAMPERS WITH HOOD (Field installed in horizontal return air duct adjacent to unit)



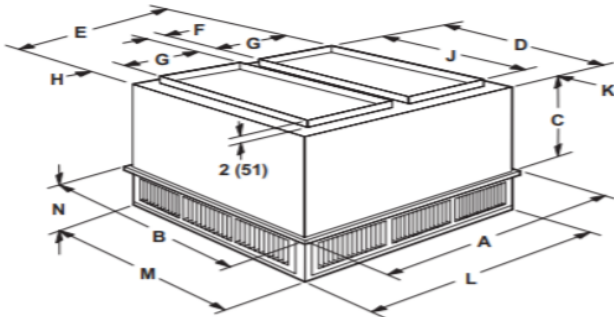
NOTE - Two furnished per order no.  
1 NOTE - Opening size required in return air duct.



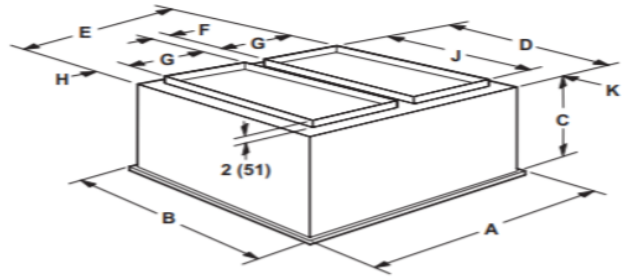
# Lennox National Accounts Project Submittal

## COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

### STEP-DOWN CEILING DIFFUSER



### FLUSH CEILING DIFFUSER

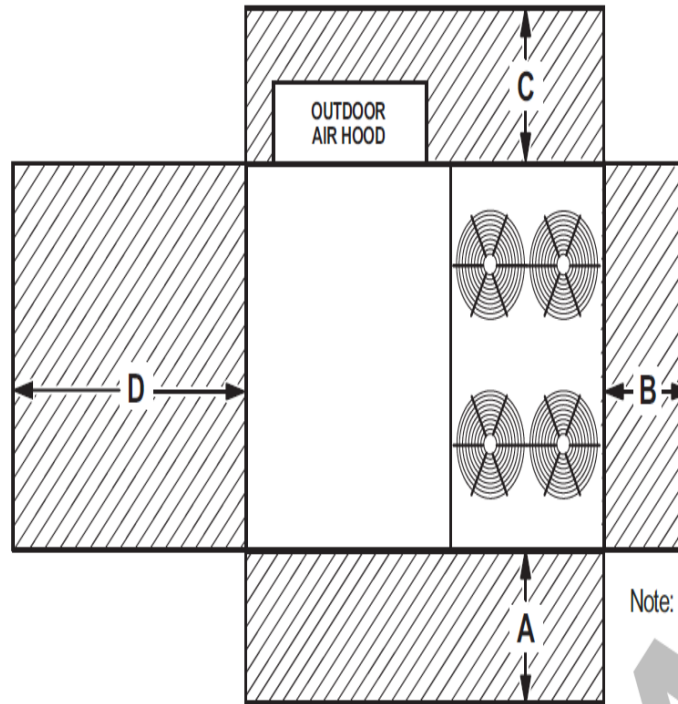


| Model Number |     | RTD11-185S | RTD11-275S |
|--------------|-----|------------|------------|
| A            | in. | 47-5/8     | 59-5/8     |
|              | mm  | 1210       | 1514       |
| B            | in. | 47-5/8     | 59-5/8     |
|              | mm  | 1210       | 1514       |
| C            | in. | 24-5/8     | 30-5/8     |
|              | mm  | 625        | 778        |
| D            | in. | 45-1/2     | 57-1/2     |
|              | mm  | 1156       | 1461       |
| E            | in. | 45-1/2     | 57-1/2     |
|              | mm  | 1156       | 1461       |
| F            | in. | 4-1/2      | 4-1/2      |
|              | mm  | 114        | 114        |
| G            | in. | 18         | 24         |
|              | mm  | 457        | 610        |
| H            | in. | 2-1/2      | 2-1/2      |
|              | mm  | 64         | 64         |
| J            | in. | 36         | 48         |
|              | mm  | 914        | 1219       |
| K            | in. | 4-3/4      | 4-3/4      |
|              | mm  | 121        | 121        |
| L            | in. | 45-1/2     | 57-1/2     |
|              | mm  | 1156       | 1461       |
| M            | in. | 45-1/2     | 57-1/2     |
|              | mm  | 1156       | 1461       |
| N            | in. | 10-1/8     | 11-1/8     |
|              | mm  | 257        | 283        |
| Duct Size    | in. | 18 x 36    | 24 x 48    |
|              | mm  | 457 x 914  | 610 x 1219 |

| Model Number |     | FD11-185S | FD11-275S  |
|--------------|-----|-----------|------------|
| A            | in. | 47-5/8    | 59-5/8     |
|              | mm  | 1210      | 1514       |
| B            | in. | 47-5/8    | 59-5/8     |
|              | mm  | 1210      | 1514       |
| C            | in. | 29-1/4    | 35-1/4     |
|              | mm  | 743       | 895        |
| D            | in. | 45        | 57         |
|              | mm  | 1143      | 1148       |
| E            | in. | 45        | 57         |
|              | mm  | 1143      | 1448       |
| F            | in. | 4-1/2     | 4-1/2      |
|              | mm  | 114       | 114        |
| G            | in. | 18        | 24         |
|              | mm  | 457       | 610        |
| H            | in. | 2-1/4     | 2-1/4      |
|              | mm  | 57        | 57         |
| J            | in. | 36        | 48         |
|              | mm  | 914       | 1219       |
| K            | in. | 4-1/2     | 4-1/2      |
|              | mm  | 114       | 114        |
| Duct Size    | in. | 18 x 36   | 24 x 48    |
|              | mm  | 457 x 914 | 610 x 1219 |



# Lennox National Accounts Project Submittal



Note: Models with four outdoor fans shown.  
Dimension clearances are for all sizes.

| <sup>1</sup> Unit Clearance        | A   |      | B   |     | C   |     | D   |      | Top Clearance |
|------------------------------------|-----|------|-----|-----|-----|-----|-----|------|---------------|
|                                    | in. | mm   | in. | mm  | in. | mm  | in. | mm   |               |
| <b>Service Clearance</b>           | 60  | 1524 | 36  | 914 | 36  | 934 | 66  | 1676 | Unobstructed  |
| <b>Clearance to Combustibles</b>   | 36  | 914  | 1   | 25  | 1   | 25  | 1   | 25   |               |
| <b>Minimum Operation Clearance</b> | 45  | 1143 | 36  | 914 | 36  | 914 | 41  | 1041 |               |

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

<sup>1</sup> Service Clearance - Required for removal of serviceable parts.

Clearance to Combustibles - Required clearance to combustible material.



# Lennox National Accounts Project Submittal

**Tag:** UH-1  
**Unit Heater / Duct Furnace:** LF25-200A

| Unit Heater / Duct Furnace |           |                    |                                   |
|----------------------------|-----------|--------------------|-----------------------------------|
| Voltage                    | V / 1Ph   | Dimensions         | 42.50 in. x 25.00 in. x 35.25 in. |
| Unit Type                  | UNIT      | Total Weight       | 180 lb                            |
| Heat Size                  | 200K      | Thermal Efficiency | 83.0%                             |
| Output                     | 166.0 MBH | Gas Line Size      | 0.5 in.                           |
| Input                      | 200.0 MBH |                    |                                   |



# Lennox National Accounts Project Submittal

Tag: UH-1

## Product Features

### Cabinet

Burner Assembly is removable from the unit as a single component

### Heating System

Aluminized Steel Tubular Heat Exchanger

Solid State Electronic Direct Spark Ignition Control. Spark is intermittent and occurs only when required.

Aluminized Steel Inshot Burners

### Warranty

Furnace See Limited Warranty Certificate included with unit for details

Furnace Limited warranty on aluminized heat exchanger of 10 years

Furnace Limited warranty on solid-state ignition modules of 3 years

Furnace Limited warranty on all other covered components of 1 year (Comm Use)



# Lennox National Accounts Project Submittal

| SPECIFICATIONS      |                                   | LF25-125 to LF25-200 |           |           |           |
|---------------------|-----------------------------------|----------------------|-----------|-----------|-----------|
| General Data        | Model No. - Stainless Steel       | LF25-125S            | LF25-150S | LF25-175S | LF25-200S |
|                     | Model No. - Aluminized Steel      | LF25-125A            | LF25-150A | LF25-175A | LF25-200A |
| Heating Performance | Heat Input Type                   | 1 Stage              | 1 Stage   | 1 Stage   | 1 Stage   |
|                     | Input - Btuh                      | 125,000              | 150,000   | 175,000   | 200,000   |
|                     | Output - Btuh                     | 103,750              | 124,500   | 145,250   | 166,000   |
|                     | Steady State Efficiency (Natural) | 83%                  | 83%       | 83%       | 83%       |
| Connections         | Temperature Rise - °F             | 50                   | 62        | 58        | 59        |
|                     | Flue size - in. (round)           | 4                    | 4         | 5         | 5         |
| Fan Data            | Gas Piping Size - in.             | 1/2                  | 1/2       | 1/2       | 1/2       |
|                     | Number of fans                    | 1                    | 1         | 1         | 1         |
| Weight Data         | Fan Diameter - in.                | 16                   | 16        | 18        | 18        |
|                     | Number of blades                  | 4                    | 4         | 5         | 5         |
|                     | Motor Output - hp                 | 1/5                  | 1/5       | 1/3       | 1/3       |
|                     | rpm                               | 1075                 | 1075      | 1075      | 1075      |
| Weight Data         | Air Volume - cfm                  | 1950                 | 1950      | 2350      | 2650      |
|                     | Net Weight - lbs. (kg)            | 147 (67)             | 157 (71)  | 170 (77)  | 180 (82)  |
|                     | Shipping Weight - lbs. (kg)       | 167 (76)             | 177 (80)  | 190 (86)  | 200 (91)  |

| ELECTRICAL DATA |                                | 115 volts - 60 hertz - 1 phase |     |     |     |
|-----------------|--------------------------------|--------------------------------|-----|-----|-----|
|                 | Voltage                        | 115 volts - 60 hertz - 1 phase |     |     |     |
|                 | Fan motor full load amps       | 5.0                            | 5.0 | 7.0 | 7.0 |
|                 | Maximum overcurrent protection | 15                             | 15  | 15  | 15  |

| OPTIONAL ACCESSORIES - ORDER SEPARATELY |     |       |       |       |       |
|---|-----|-------|-------|-------|-------|
| Discharge Nozzle                        | 30° | 18K66 | 18K66 | 18K67 | 18K67 |
|   | 45° | 18K72 | 18K72 | 18K78 | 18K78 |
|   | 60° | 18K87 | 18K87 | 18K88 | 18K88 |
|   | 90° | 18K93 | 18K93 | 18K98 | 18K98 |

<sup>1</sup> 1-3/4 in. x 2-3/4 in. rectangular (unit) to 5 in. diameter (flue) adaptor is furnished with unit for flue connection.

| SPECIFICATIONS      |                                   | LF25-250 to LF25-400 |           |           |           |
|---------------------|-----------------------------------|----------------------|-----------|-----------|-----------|
| General Data        | Model No. - Stainless Steel       | LF25-250S            | LF25-300S | LF25-350S | LF25-400S |
|                     | Model No. - Aluminized Steel      | LF25-250A            | LF25-300A | LF25-350A | LF25-400A |
| Heating Performance | Heat Input Type                   | 2 Stage              | 2 Stage   | 2 Stage   | 2 Stage   |
|                     | Input Btuh                        | 250,000              | 300,000   | 350,000   | 400,000   |
|                     | High Heat                         | 162,500              | 195,000   | 225,000   | 254,000   |
|                     | Low Heat                          | 207,500              | 246,000   | 290,500   | 328,000   |
| Connections         | Output Btuh - Natural             | 207,500              | 246,000   | 290,500   | 328,000   |
|                     | Steady State Efficiency - Natural | 83%                  | 82%       | 83%       | 82%       |
| Fan Data            | Temperature Rise - °F             | 51                   | 57        | 58        | 65        |
|                     | Flue size - in. (round)           | 5                    | 5         | 6         | 6         |
| Weight Data         | Gas Piping Size - in.             | 3/4                  | 3/4       | 3/4       | 3/4       |
|                     | Number of fans                    | 2                    | 2         | 2         | 2         |
|                     | Fan Diameter - in.                | 16                   | 16        | 18        | 18        |
|                     | Number of blades                  | 4                    | 4         | 5         | 5         |
| Weight Data         | Motor Output - hp                 | (2) 1/5              | (2) 1/5   | (2) 1/3   | (2) 1/3   |
|                     | Amps (total)                      | 3.0 (6.0)            | 3.0 (6.0) | 3.9 (7.8) | 3.9 (7.8) |
|                     | rpm                               | 1075                 | 1075      | 1075      | 1075      |
|                     | Air Volume - cfm                  | 4000                 | 4000      | 5500      | 5550      |
| Weight Data         | Net Weight - lbs. (kg)            | 290 (132)            | 310 (141) | 320 (145) | 360 (163) |
|                     | Shipping Weight - lbs. (kg)       | 310 (141)            | 330 (197) | 340 (154) | 380 (172) |

| ELECTRICAL DATA |                                | 115 volts - 60 hertz - 1 phase |     |      |      |
|-----------------|--------------------------------|--------------------------------|-----|------|------|
|                 | Voltage                        | 115 volts - 60 hertz - 1 phase |     |      |      |
|                 | Fan motor full load amps       | 8.0                            | 8.0 | 11.0 | 11.0 |
|                 | Maximum overcurrent protection | 15                             | 15  | 15   | 15   |

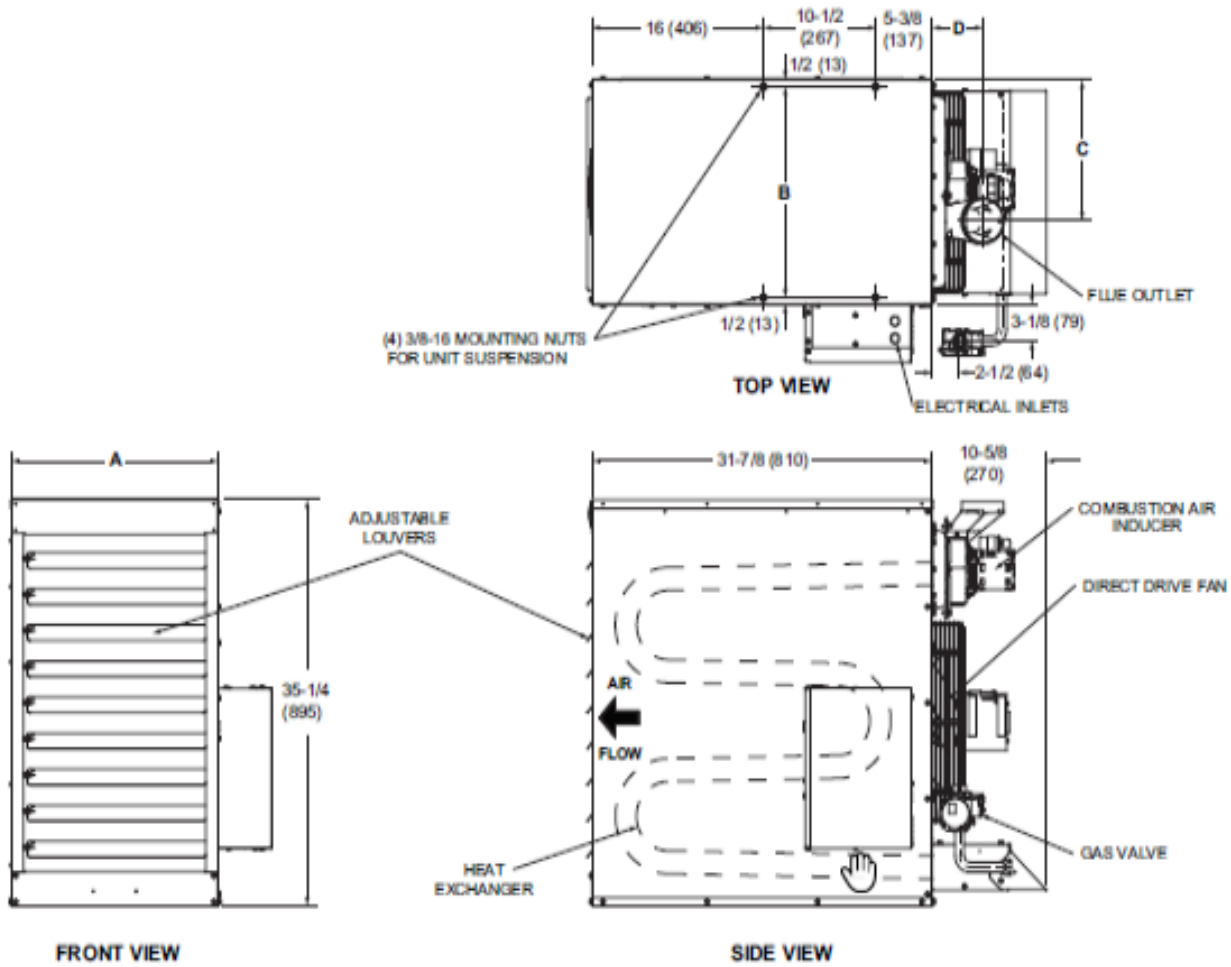
| OPTIONAL ACCESSORIES - ORDER SEPARATELY |     |       |       |       |       |
|---|-----|-------|-------|-------|-------|
| Discharge Nozzle                        | 30° | 18K68 | 18K68 | 18K70 | 18K70 |
|   | 45° | 18K81 | 18K81 | 18K83 | 18K83 |
|   | 60° | 18K89 | 18K89 | 18K91 | 18K91 |
|   | 90° | 18K99 | 18K99 | 18L06 | 18L06 |

<sup>1</sup> 1-3/4 in. x 2-3/4 in. rectangular (unit) to 5 in. diameter (flue) adaptor is furnished with unit for flue connection.

<sup>2</sup> 1-3/4 in. x 2-3/4 in. rectangular (unit) to 6 in. diameter (flue) adaptor is furnished with unit for flue connection.



# Lennox National Accounts Project Submittal



| Model No.            | A      |     | B      |     | C      |     | D     |     |
|----------------------|--------|-----|--------|-----|--------|-----|-------|-----|
|                      | in.    | mm  | in.    | mm  | in.    | mm  | in.   | mm  |
| LF25-125<br>LF25-150 | 19-1/2 | 495 | 18-1/2 | 470 | 12-1/4 | 311 | 4-3/4 | 121 |
| LF25-175<br>LF25-200 | 25     | 635 | 23-3/4 | 603 | 9-1/2  | 241 | 3     | 76  |



# Lennox National Accounts Project Submittal

**Tag:** Miscellaneous Items

## Miscellaneous Items

| Tag                          | Catalog Number | Qty | Description  |
|------------------------------|----------------|-----|--|
| Remote Test Stations         |                |     |  |
|                              | Y3027          | 7   | BE RTS2-AOS Multi Signal Accessory                                     |
| Temp Sensors                 |                |     |  |
|                              | 94L60          | 7   | C0SNZN07AE1- SENSOR, NONADJST TEMP                                     |
| Equipment & Operations Check |                |     |  |
|                              | EOC            | 7   | EOC & Guided Setup   |
| Roof Curbs Package           |                |     |  |
|                              | COMSD          | 1   | (Qty 7) 18" Insulated Roof Curbs with Burglar Bars and Hold Down Clips |