



Lennox National Accounts Project Submittal

Project Name: BCF #1518 Hermitage, TN
Project Number: 647766
Project Altitude: 500
Project Location:
Hermitage, Tennessee US

Date: 5/22/2024
Quote: 457090A
Roof Top Units: 6
Split Systems: 0

Customer: Burlington Coat Factory
National Account: Burlington Coat Factory

Table of Contents

Tag	Qty	Model	Description
<u>RTU-1 (15 TON)</u>	1	LGT180H4M	LGT180H4M-G 15T CONF E=12.0
<u>RTU-2 (13 TON)</u>	1	LGT156H4M	LGT156H4M-G 13T CONF E=12.0
<u>RTU-3, RTU-5 (13 TON)</u>	2	LGT156H4V	LGT156H4V-G 13T CONF E=12.0
<u>RTU-4 (17.5 TON)</u>	1	LGT210H4V	LGT210H4V-G 17.5T CONF E=12.0
<u>RTU-6 (5 TON)</u>	1	LGT060H4E	LGT060H4E-G 5T CONF S=17
<u>Miscellaneous Items</u>			

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

AutoCAD® Templates - [Click here](#)



Lennox National Accounts Project Submittal

Tag: RTU-1 (15 TON)
Model: LGT180H4M - LGT180H4M-G 15T CONF E=12.0

UNIT OVERVIEW

Voltage	IEER EER	MCA/MOCP (amp)	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in.WC)	EAT DB/WB (°F)	LAT DB/WB (°F)
460V 3Ph 60Hz	15 12	34 / 35	184.4 / 140.1	177.1 / 132.9	6,000	0.50 / 0.71	80.0 / 67.0	57.4 / 56.8

COOLING

Cooling Performance		Temperatures (DB/WB °F)	
Gross Cooling (Ttl/Sens)	184.4 / 140.1 MBH	Ambient	95.0
Net Cooling (Ttl/Sens)	177.1 / 132.9 MBH	Entering	80.0 67.0
Coil Moisture Removal	41.71 lb/hr	Total Leaving – (Coil)	57.4 56.8
System Moisture Removal	41.71 lb/hr	Total Leaving – (Unit)	58.5 57.2

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	176.0 / 172.0 MBH	Cooling Stages	3	Type	R-410A	Qty	1
ARI Power	14,300 W	Compressor Qty	3	Charge	0.0	Size	1 in.
		Compressor RLA	20.6 amp			Pipe Thread	FPT

HUMIDITROL - HOT GAS REHEAT

Humiditrol Dehumidification Performance		Temperatures (DB/WB °F)	
Gross Cooling - Stage 1(Ttl/Sens)	33.4 / 14.0 MBH	Ambient	95.0
Gross Cooling - Stage 2 (Ttl/Sens)	66.5 / 28.6 MBH	Entering	80.0 67.0
Moisture Removal - Stage 1	18.3 lb/hr	Total Leaving – (Stage 1)	77.7 65.3
Moisture Removal - Stage 2	35.7 lb/hr	Total Leaving – (Stage 2)	75.4 63.6

HEATING

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	292.0 / 95.0 MBH	Total Leaving	45.1	Heat Stages	2
Input (High/Low)	360.0 / 117.0 MBH			Thermal Efficiency	81.0%
Gas Heat Rise	45.1 °F			Gas Line Size	1 in.
				Gas Pressure	7 in.WC

VENTILATION

Air Flow (cfm)		Supply Fan		Air Resistance (in.WC)	
Supply	6,000	Nominal Power	3.00 hp	Total	0.71
		Required Power	2.40 hp	Ext Supply	0.50
		Drive Type	MSAV Belt Drive		
		RPM Range	710 - 965 rpm		
		Required RPM	751 rpm		

AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.03	0.03	0.12		0.03			

ELECTRICAL

Voltage	460V 3Ph / 60Hz	Compressor RLA	20.6 amp
MCA	34 amp	Condenser FLA	5.4 amp
MOCP	35 amp	Supply Fan FLA	4.8 amp
Oper Range-Nom Volt	+/- 10%	Cooling FLA Total	30.8 amp

ADDITIONAL DATA

Cabinet	132.62 in. x 91.12 in. x 54.25 in.	Total Weight	2,425 lb
Downflow Supply	20.0 in. x 28.0 in.	Base Unit Net Weight	2,128 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.	Exhaust Weight	62 lb
Sound Rating	93 dBA	Humiditrol Weight	50 lb
		Gas Heat Weight	18 lb



Lennox National Accounts Project Submittal

Tag: RTU-1 (15 TON)

Factory Installed Options

- High Performance Economizer Upgrade Factory Installed
- Dual Enthalpy High Performance Economizer
- Belt Drive
- Unit Orientation Downflow
- Supply Fan: Multi-Stage Air Volume Belt
- 440V/460V/480V 3Phase
- 80Amp Non-Fused Disconnect Factory Installed
- Built-in BACnet IP and MS/TP (standard)
- Supply Motor - 3.0 Hp Std- w/ MSAV
- Supply Drive Kit 2 (710-965 RPM)
- MSAV Blower Bypass Factory Installed
- Std Static Power Exhaust Fan Factory Installed
- 360K A.S. (Dual Stage)
- Hinged Access Doors Factory Installed
- 15A GFCI Factory Installed/Field Wired
- Blower Proving Switch Factory Installed
- Environ Condenser Coil System Factory Installed
- Drain Pan Overflow Switch Factory Installed
- Humiditrol Factory Installed
- 2" MERV8 - Filter Factory installed

Field Installed Accessories

Catalog Number	Qty	Description
10C89	1	Weatherproof GFCI Cover 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
- Timed Off Control
- Internal Pressure Relief Valve
- Building Automation Integrated Control - Up to 3 Stages of Cooling
- Humiditrol - Hot Gas Reheat Dehumidification System

Heating System

- Redundant Automatic Gas Valve with Manual Shut-off
- Electronic Flame Sensor
- Direct Spark Ignition
- Inshot Burners
- AGA-CGA Certified

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
- Built-in BACnet IP & MS/TP
- Phase/Voltage Detection
- Return Air Sensor Factory Installed
- Outdoor Air Sensor Factory Installed



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Factory Installed Discharge Air Sensor

Compliance

Components are Bonded for Grounding

Factory Test Operated

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

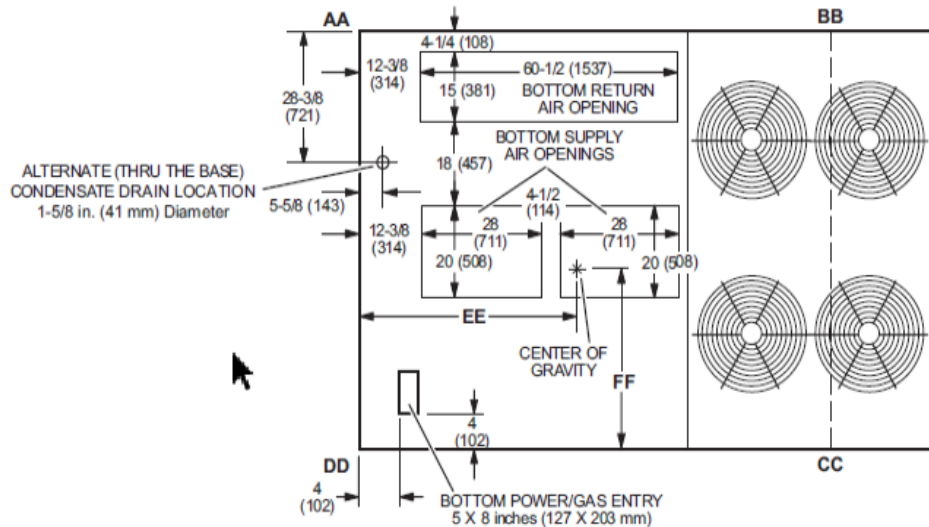
See Limited Warranty Certificate included with unit for details

Limited warranty on Lennox® CORE Control System of 3 years

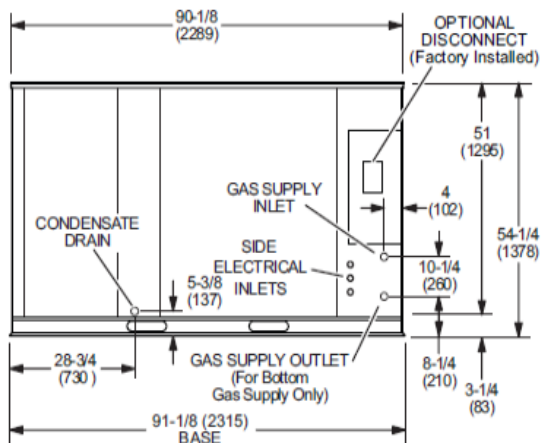


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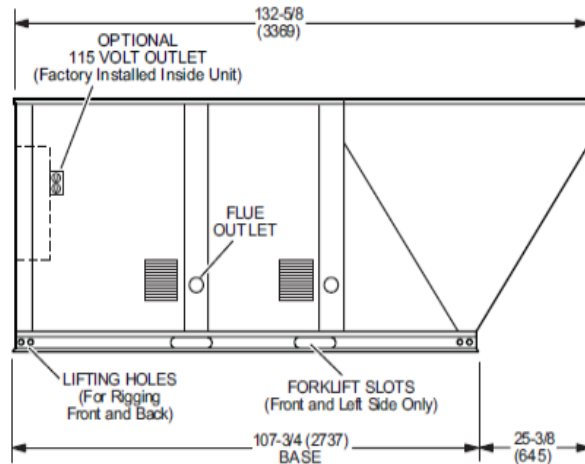
Corner Weights (lb)								Center of Gravity (in.)			
AA		BB		CC		DD		EE		FF	
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
483	596	435	517	574	604	636	696	51.10	50.06	39.30	42.03



TOP VIEW



END VIEW

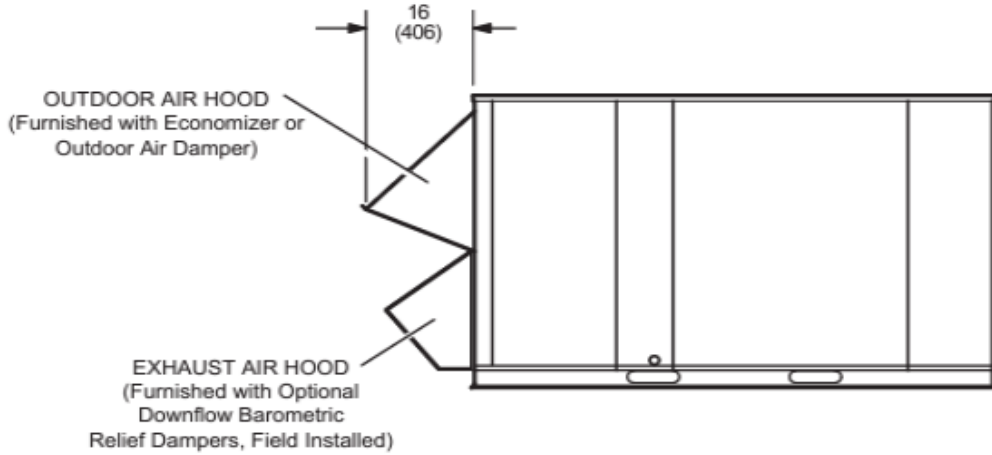


SIDE VIEW

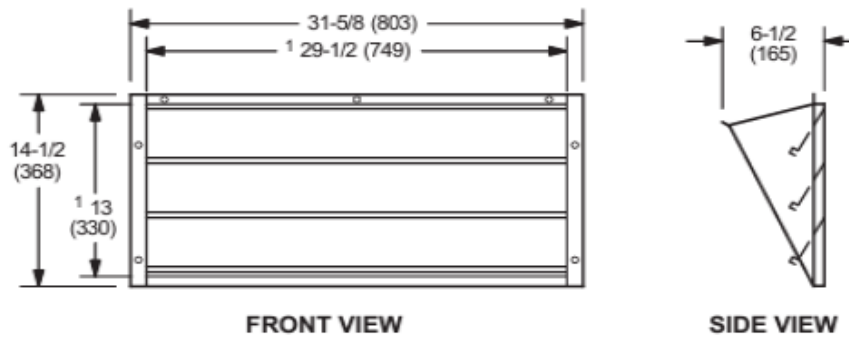


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OUTDOOR AIR HOOD DETAIL



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

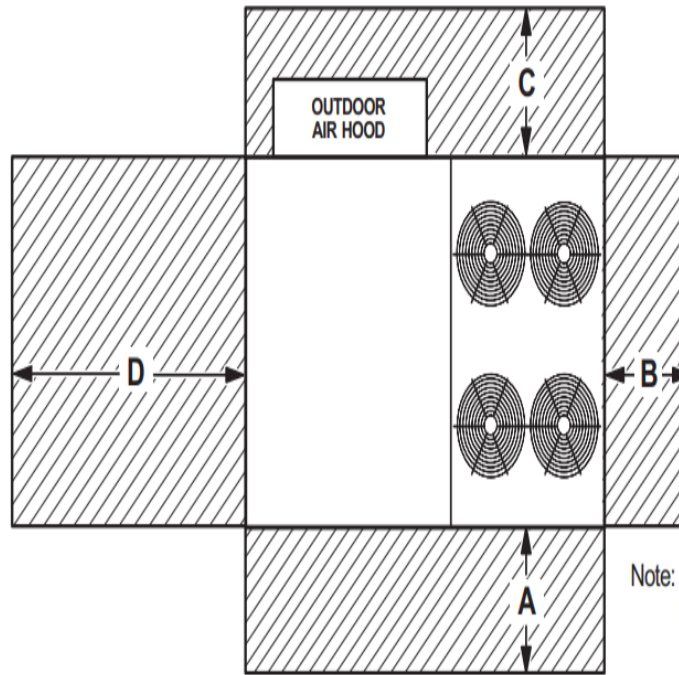


NOTE - Two furnished per order no.
1 NOTE - Opening size required in return air duct.



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Unit With Economizer



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

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

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: RTU-2 (13 TON)
Model: LGT156H4M - LGT156H4M-G 13T CONF E=12.0

UNIT OVERVIEW

Voltage	IEER EER	MCA/MOCP (amp)	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in.WC)	EAT DB/WB (°F)	LAT DB/WB (°F)
460V 3Ph 60Hz	15.5 12	34 / 40	160.8 / 120.6	155.3 / 115.1	5,200	0.50 / 0.67	80.0 / 67.0	57.6 / 56.7

COOLING

Cooling Performance		Temperatures (DB/WB °F)	
Gross Cooling (Ttl/Sens)	160.8 / 120.6 MBH	Ambient	95.0
Net Cooling (Ttl/Sens)	155.3 / 115.1 MBH	Entering	80.0 67.0
Coil Moisture Removal	37.89 lb/hr	Total Leaving – (Coil)	57.6 56.7
System Moisture Removal	37.89 lb/hr	Total Leaving – (Unit)	58.6 57.1

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	152.0 / 148.0 MBH	Cooling Stages	3	Type	R-410A	Qty	1
ARI Power	12,300 W	Compressor Qty	2	Charge	0.0	Size	1 in.
		Compressor RLA	21.3 amp			Pipe Thread	FPT

HUMIDITROL - HOT GAS REHEAT

Humiditrol Dehumidification Performance		Temperatures (DB/WB °F)	
Gross Cooling - Stage 1(Ttl/Sens)	68.5 / 32.9 MBH	Ambient	95.0
Gross Cooling - Stage 2 (Ttl/Sens)	88.9 / 58.7 MBH	Entering	80.0 67.0
Moisture Removal - Stage 1	33.6 lb/hr	Total Leaving – (Stage 1)	73.9 62.9
Moisture Removal - Stage 2	28.5 lb/hr	Total Leaving – (Stage 2)	69.1 61.6

HEATING

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	292.0 / 95.0 MBH	Total Leaving	52.0	Heat Stages	2
Input (High/Low)	360.0 / 117.0 MBH			Thermal Efficiency	81.0%
Gas 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	3.00 hp	Total	0.67
		Required Power	1.82 hp	Ext Supply	0.50
		Drive Type	MSAV Belt Drive		
		RPM Range	535 - 725 rpm		
		Required RPM	705 rpm		

AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.02	0.03	0.10		0.02			

ELECTRICAL

Voltage	460V 3Ph / 60Hz	Compressor RLA	21.3 amp
MCA	34 amp	Condenser FLA	4.0 amp
MOCP	40 amp	Supply Fan FLA	4.8 amp
Oper Range-Nom Volt	+/- 10%	Cooling FLA Total	30.1 amp

ADDITIONAL DATA

Cabinet	107.75 in. x 91.12 in. x 54.25 in.	Total Weight	2,311 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.	Exhaust Weight	62 lb
Sound Rating	86 dBA	Humiditrol Weight	50 lb
		Gas Heat Weight	18 lb



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Tag: RTU-2 (13 TON)

Factory Installed Options

- High Performance Economizer Upgrade Factory Installed
- Dual Enthalpy High Performance Economizer
- Belt Drive
- Unit Orientation Downflow
- Supply Fan: Multi-Stage Air Volume Belt
- 440V/460V/480V 3Phase
- 80Amp Non-Fused Disconnect Factory Installed
- Built-in BACnet IP and MS/TP (standard)
- Supply Motor - 3.0 Hp Std- w/ MSAV
- Supply Drive Kit 1 (535-725 RPM)
- MSAV Blower Bypass Factory Installed
- Std Static Power Exhaust Fan Factory Installed
- 360K A.S. (Dual Stage)
- Hinged Access Doors Factory Installed
- 15A GFCI Factory Installed/Field Wired
- Blower Proving Switch Factory Installed
- Environ Condenser Coil System Factory Installed
- Drain Pan Overflow Switch Factory Installed
- Humiditrol Factory Installed
- 2" MERV8 - Filter Factory installed

Field Installed Accessories

Catalog Number	Qty	Description
10C89	1	Weatherproof GFCI Cover 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
- Timed Off Control
- Internal Pressure Relief Valve
- Humiditrol - Hot Gas Reheat Dehumidification System

Heating System

- Redundant Automatic Gas Valve with Manual Shut-off
- Electronic Flame Sensor
- Direct Spark Ignition
- Inshot Burners
- AGA-CGA Certified

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
- Built-in BACnet IP & MS/TP
- Phase/Voltage Detection
- Return Air Sensor Factory Installed
- Outdoor Air Sensor Factory Installed
- Factory Installed Discharge Air Sensor



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Compliance

Components are Bonded for Grounding

Factory Test Operated

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

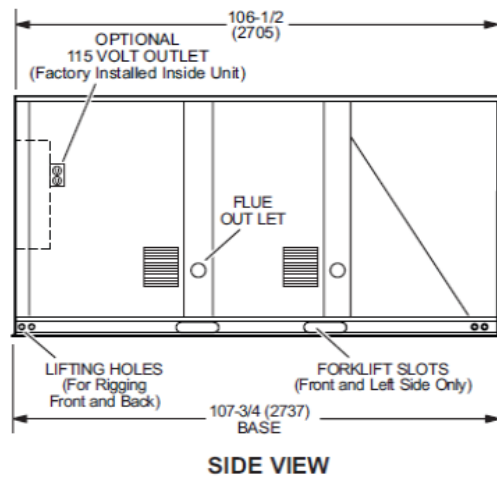
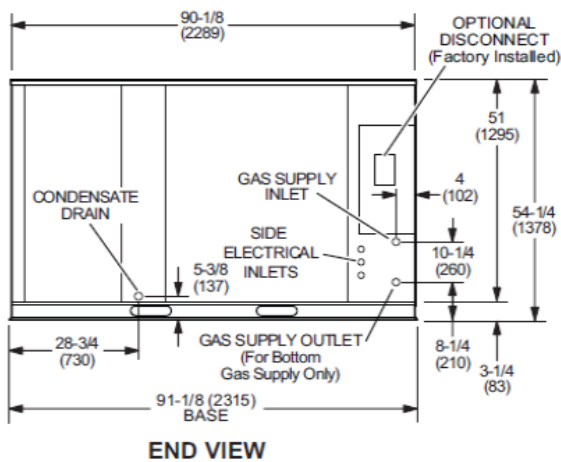
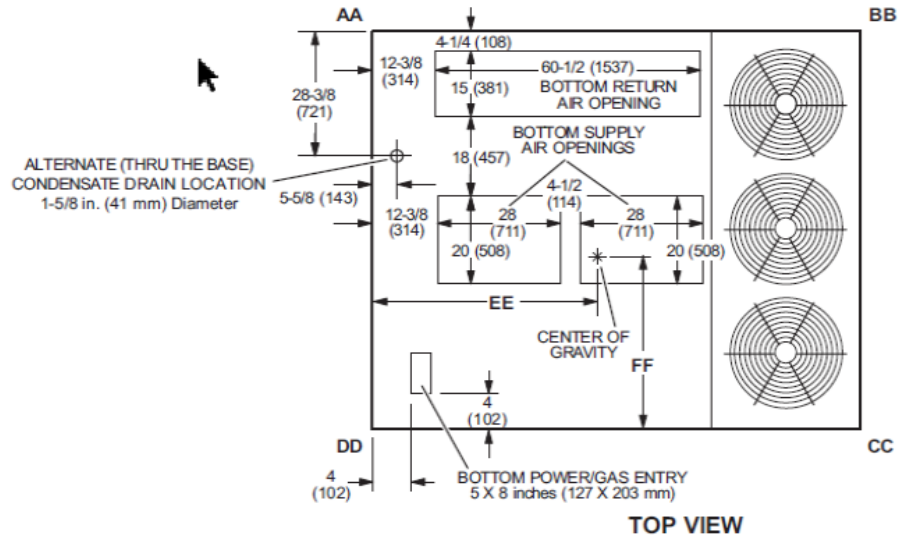
See Limited Warranty Certificate included with unit for details

Limited warranty on Lennox® CORE Control System of 3 years



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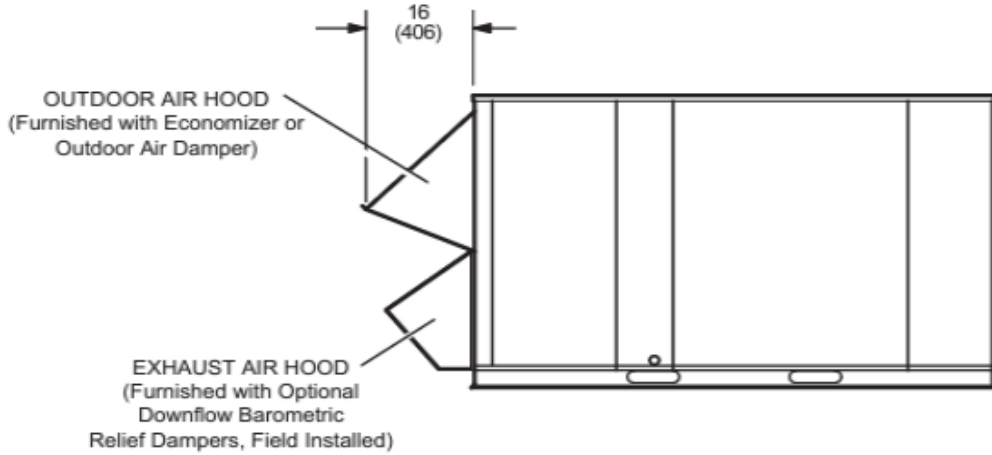
Corner Weights (lb)								Center of Gravity (in.)			
AA		BB		CC		DD		EE		FF	
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
481	596	399	487	514	547	620	669	48.85	48.43	39.79	42.93



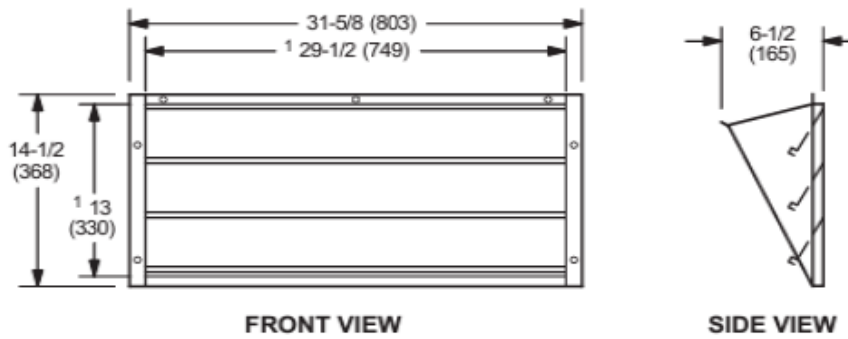


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OUTDOOR AIR HOOD DETAIL



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

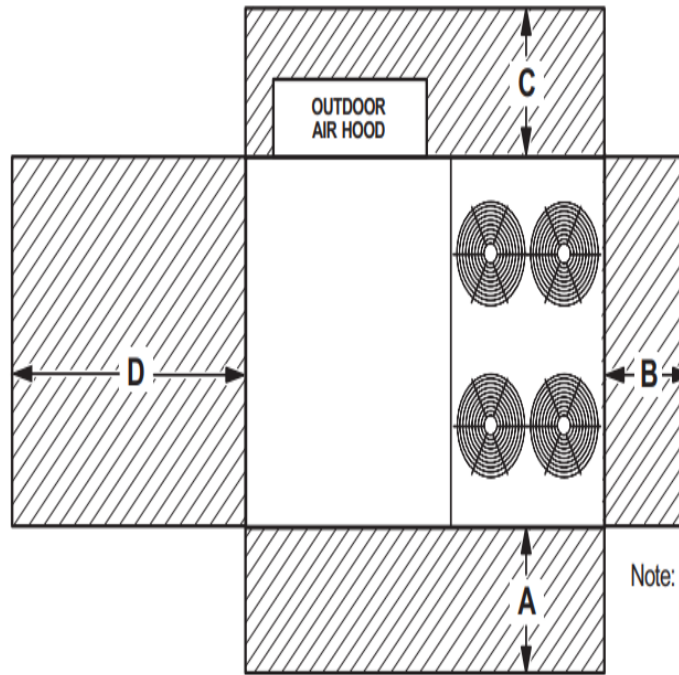


NOTE - Two furnished per order no.
1 NOTE - Opening size required in return air duct.



Lennox National Accounts Project Submittal

Unit With Economizer



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

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

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: RTU-3, RTU-5 (13 TON)
Model: LGT156H4V - LGT156H4V-G 13T CONF E=12.0

UNIT OVERVIEW

Voltage	IEER EER	MCA/MOCP (amp)	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in.WC)	EAT DB/WB (°F)	LAT DB/WB (°F)
460V 3Ph 60Hz	15 12	34 / 40	160.8 / 120.6	155.5 / 115.3	5,200	0.50 / 0.64	80.0 / 67.0	57.6 / 56.7

COOLING

Cooling Performance		Temperatures (DB/WB °F)	
Gross Cooling (Ttl/Sens)	160.8 / 120.6 MBH	Ambient	95.0
Net Cooling (Ttl/Sens)	155.5 / 115.3 MBH	Entering	80.0 67.0
Coil Moisture Removal	37.89 lb/hr	Total Leaving – (Coil)	57.6 56.7
System Moisture Removal	37.89 lb/hr	Total Leaving – (Unit)	58.5 57.1

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	152.0 / 148.0 MBH	Cooling Stages	3	Type	R-410A	Qty	1
ARI Power	12,300 W	Compressor Qty	2	Charge	17 LBS. 8 OZ.	Size	1 in.
		Compressor RLA	21.3 amp			Pipe Thread	FPT

HEATING

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	292.0 / 95.0 MBH	Total Leaving	52.0	Heat Stages	2
Input (High/Low)	360.0 / 117.0 MBH			Thermal Efficiency	81.0%
Gas 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	3.00 hp	Total	0.64
		Required Power	1.76 hp	Ext Supply	0.50
		Drive Type	VAV Belt Drive		
		RPM Range	535 - 725 rpm		
		Required RPM	693 rpm		

AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

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

ELECTRICAL

Voltage	460V 3Ph / 60Hz	Compressor RLA	21.3 amp
MCA	34 amp	Condenser FLA	4.0 amp
MOCP	40 amp	Supply Fan FLA	4.8 amp
Oper Range-Nom Volt	+/- 10%	Cooling FLA Total	30.1 amp

ADDITIONAL DATA

Cabinet	107.75 in. x 91.12 in. x 54.25 in.	Total Weight	2,261 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.	Exhaust Weight	62 lb
Sound Rating	86 dBA	Gas Heat Weight	18 lb



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Tag: RTU-3, RTU-5 (13 TON)

Factory Installed Options

- High Performance Economizer Upgrade Factory Installed
- Dual Enthalpy High Performance Economizer
- Belt Drive
- Unit Orientation Downflow
- Supply Fan: Variable Air Volume
- 440V/460V/480V 3Phase
- 80Amp Non-Fused Disconnect Factory Installed
- Built-in BACnet IP and MS/TP (standard)
- Supply Motor - 3.0 Hp Std- w/ VAV
- Supply Drive Kit 1 (535-725 RPM)
- Std Static Power Exhaust Fan Factory Installed
- 360K A.S. (Dual Stage)
- Hinged Access Doors Factory Installed
- 15A GFCI Factory Installed/Field Wired
- Environ Condenser Coil System Factory Installed
- Drain Pan Overflow Switch Factory Installed
- 2" MERV8 - Filter Factory installed

Field Installed Accessories

Catalog Number	Qty	Description
10C89	2	Weatherproof GFCI Cover 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
- Timed Off Control
- Internal Pressure Relief Valve

Heating System

- Redundant Automatic Gas Valve with Manual Shut-off
- Electronic Flame Sensor
- Direct Spark Ignition
- Inshot Burners
- AGA-CGA Certified

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
- Built-in BACnet IP & MS/TP
- Phase/Voltage Detection
- Return Air Sensor Factory Installed
- Outdoor Air Sensor Factory Installed
- Factory Supplied Discharge Air Sensor

Compliance

- Components are Bonded for Grounding
- Factory Test Operated
- All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8



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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

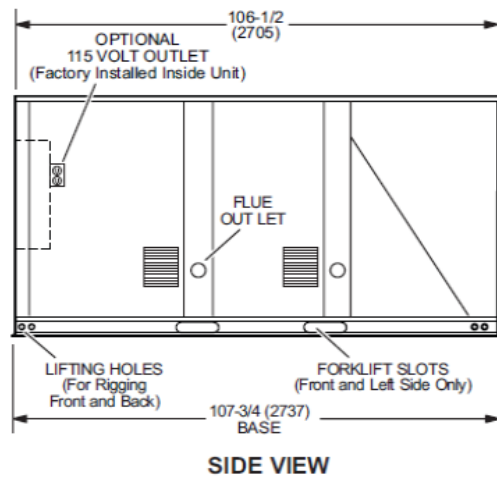
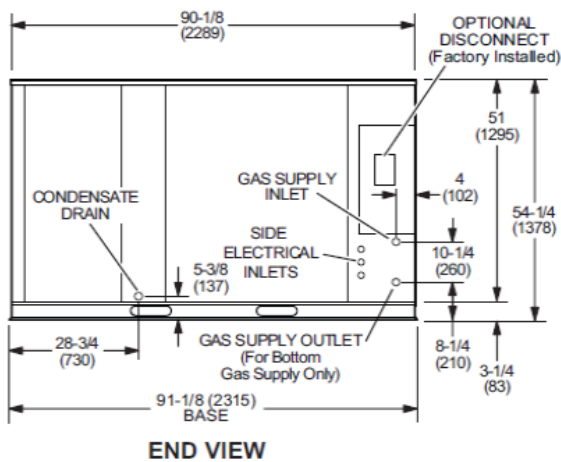
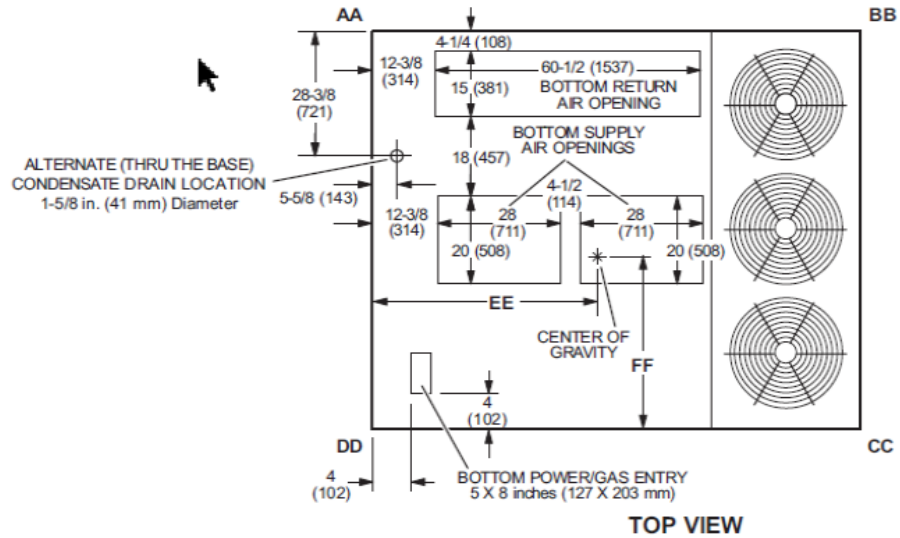
See Limited Warranty Certificate included with unit for details

Limited warranty on Lennox® CORE Control System of 3 years



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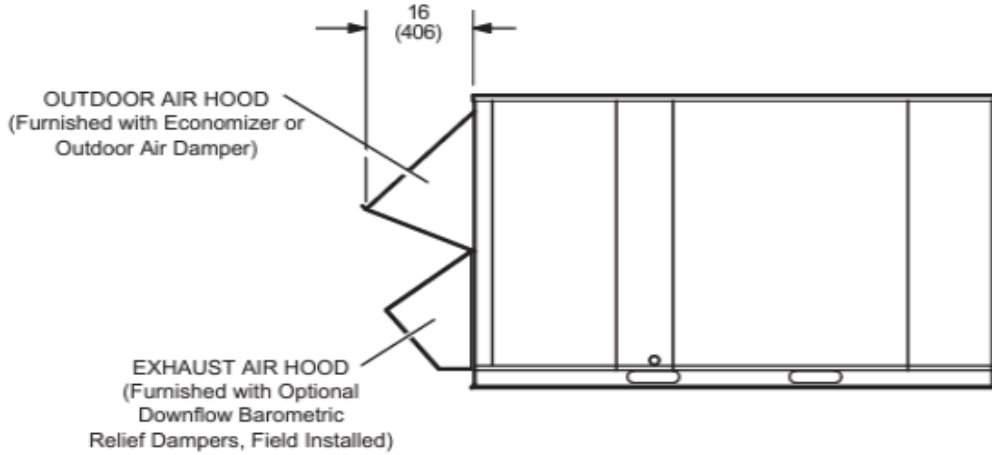
Corner Weights (lb)						Center of Gravity (in.)					
AA		BB		CC		DD		EE		FF	
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
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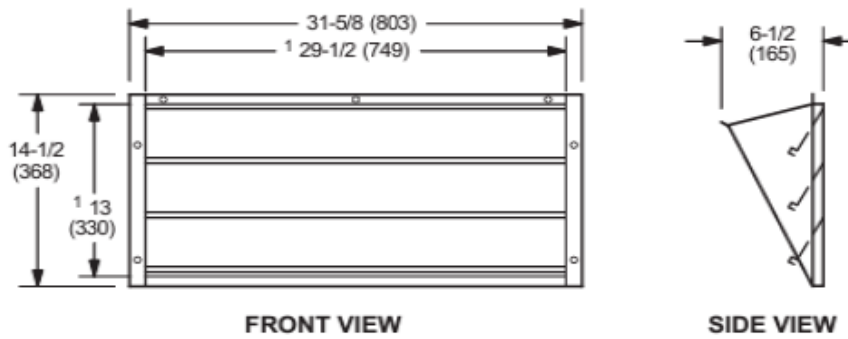


Lennox National Accounts Project Submittal

OUTDOOR AIR HOOD DETAIL



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

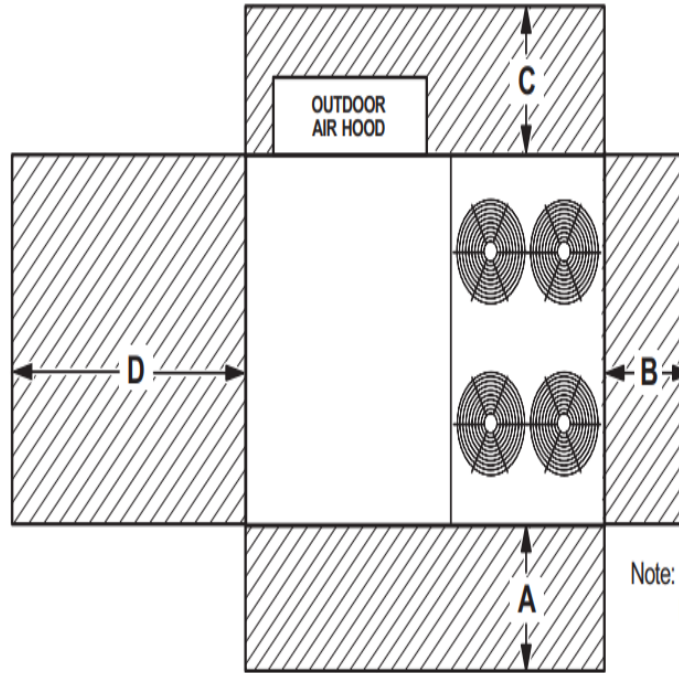


NOTE - Two furnished per order no.
1 NOTE - Opening size required in return air duct.



Lennox National Accounts Project Submittal

Unit With Economizer



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

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

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: RTU-4 (17.5 TON)
Model: LGT210H4V - LGT210H4V-G 17.5T CONF E=12.0

UNIT OVERVIEW

Voltage	IEER EER	MCA/MOCP (amp)	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in.WC)	EAT DB/WB (°F)	LAT DB/WB (°F)
460V 3Ph 60Hz	15.5 12	43 / 50	218.8 / 166.3	208.7 / 156.2	7,000	0.50 / 0.83	80.0 / 67.0	57.0 / 56.6

COOLING

Cooling Performance		Temperatures (DB/WB °F)	
Gross Cooling (Ttl/Sens)	218.8 / 166.3 MBH	Ambient	95.0
Net Cooling (Ttl/Sens)	208.7 / 156.2 MBH	Entering	80.0 67.0
Coil Moisture Removal	49.49 lb/hr	Total Leaving – (Coil)	57.0 56.6
System Moisture Removal	49.49 lb/hr	Total Leaving – (Unit)	58.4 57.1

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	206.0 / 200.0 MBH	Cooling Stages	4	Type	R-410A	Qty	1
ARI Power	16,600 W	Compressor Qty	4	Charge	26 LBS. 1 OZ.	Size	1 in.
		Compressor RLA	25.2 amp			Pipe Thread	FPT

HEATING

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	292.0 / 95.0 MBH	Total Leaving	38.6	Heat Stages	2
Input (High/Low)	360.0 / 117.0 MBH			Thermal Efficiency	81.0%
Gas Heat Rise	38.6 °F			Gas Line Size	1 in.
				Gas Pressure	7 in.WC

VENTILATION

Air Flow (cfm)		Supply Fan		Air Resistance (in.WC)	
Supply	7,000	Nominal Power	5.00 hp	Total	0.83
		Required Power	3.48 hp	Ext Supply	0.50
		Drive Type	VAV Belt Drive		
		RPM Range	685 - 856 rpm		
		Required RPM	835 rpm		

AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.10		0.15	0.04	0.04			

ELECTRICAL

Voltage	460V 3Ph / 60Hz	Compressor RLA	25.2 amp
MCA	43 amp	Condenser FLA	5.4 amp
MOCP	50 amp	Supply Fan FLA	7.6 amp
Oper Range-Nom Volt	+/- 10%	Cooling FLA Total	38.2 amp

ADDITIONAL DATA

Cabinet	132.62 in. x 91.12 in. x 54.25 in.	Total Weight	2,816 lb
Downflow Supply	20.0 in. x 28.0 in.	Base Unit Net Weight	2,569 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.	Exhaust Weight	62 lb
Sound Rating	94 dBA	Gas Heat Weight	18 lb



Lennox National Accounts Project Submittal

Tag: RTU-4 (17.5 TON)

Factory Installed Options

- High Performance Economizer Upgrade Factory Installed
- Dual Enthalpy High Performance Economizer
- Belt Drive
- Unit Orientation Downflow
- Supply Fan: Variable Air Volume
- 440V/460V/480V 3Phase
- 80Amp Non-Fused Disconnect Factory Installed
- Built-in BACnet IP and MS/TP (standard)
- Supply Motor - 5.0 Hp Std- w/ VAV
- Supply Drive Kit 3 (685-856 RPM)
- Std Static Power Exhaust Fan Factory Installed
- 360K A.S. (Dual Stage)
- Hinged Access Doors Factory Installed
- 15A GFCI Factory Installed/Field Wired
- Environ Condenser Coil System Factory Installed
- Drain Pan Overflow Switch Factory Installed
- 2" MERV8 - Filter Factory installed

Field Installed Accessories

Catalog Number	Qty	Description
10C89	1	Weatherproof GFCI Cover 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
- Timed Off Control
- Internal Pressure Relief Valve
- Building Automation Integrated Control - Up to 4 Stages of Cooling
- Thermostat Control – 4 Stages of Cooling

Heating System

- Redundant Automatic Gas Valve with Manual Shut-off
- Electronic Flame Sensor
- Direct Spark Ignition
- Inshot Burners
- AGA-CGA Certified

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
- Built-in BACnet IP & MS/TP
- Phase/Voltage Detection
- Return Air Sensor Factory Installed
- Outdoor Air Sensor Factory Installed
- Factory Supplied Discharge Air Sensor

Compliance

- Components are Bonded for Grounding



Lennox National Accounts Project Submittal

Factory Test Operated

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

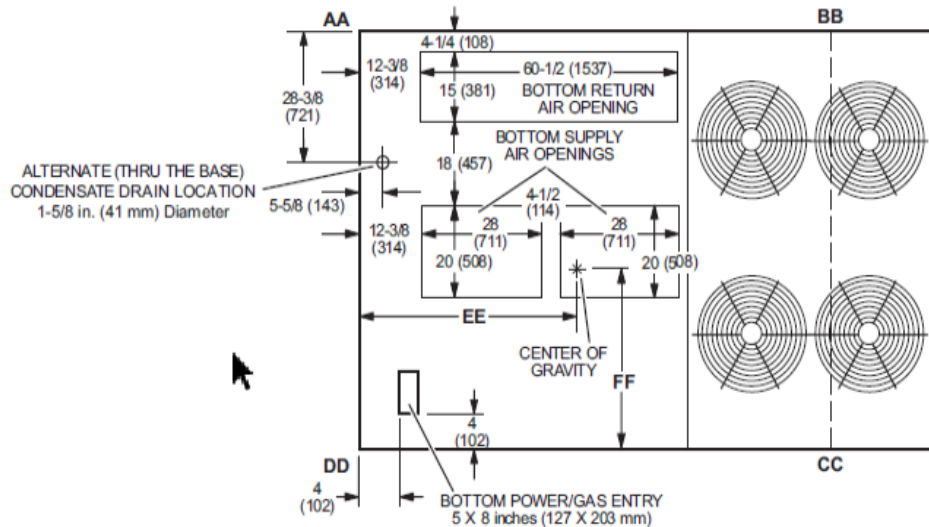
See Limited Warranty Certificate included with unit for details

Limited warranty on Lennox® CORE Control System of 3 years

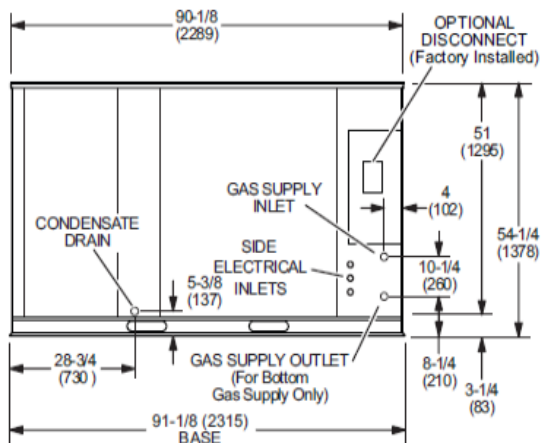


Lennox National Accounts Project Submittal

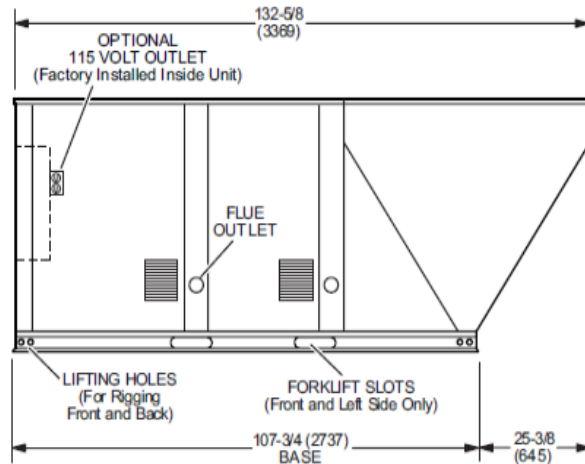
Corner Weights (lb)								Center of Gravity (in.)			
AA		BB		CC		DD		EE		FF	
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
512	624	620	709	787	809	650	712	58.99	57.31	40.16	42.54



TOP VIEW



END VIEW

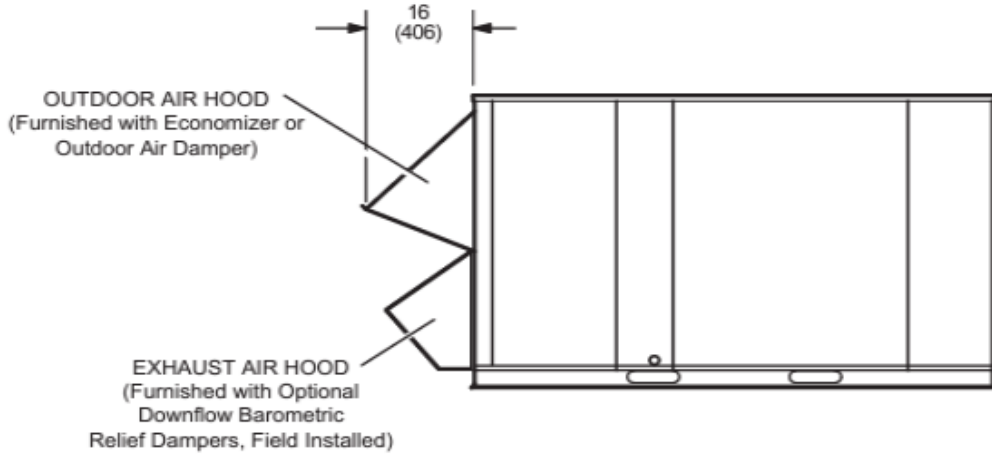


SIDE VIEW

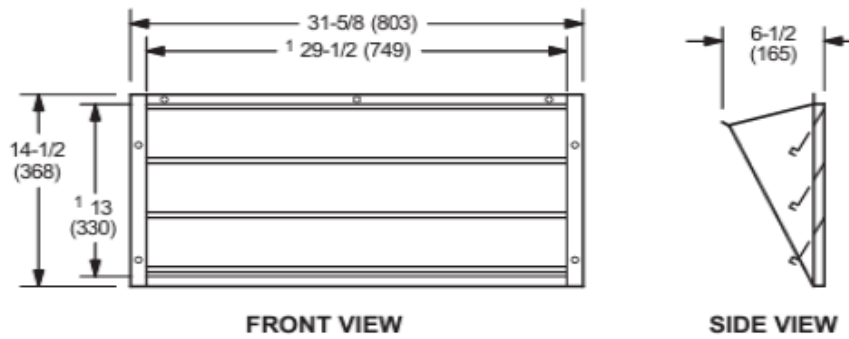


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OUTDOOR AIR HOOD DETAIL



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

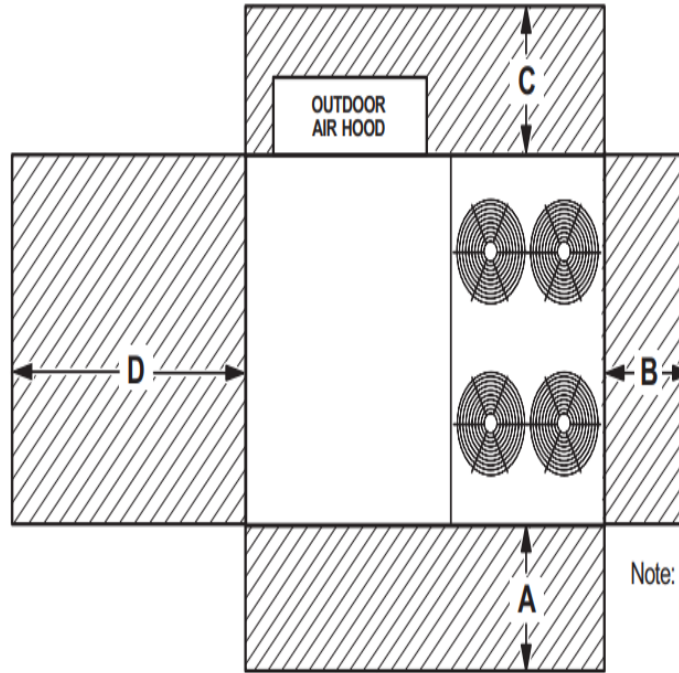


NOTE - Two furnished per order no.
1 NOTE - Opening size required in return air duct.



Lennox National Accounts Project Submittal

Unit With Economizer



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

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

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.



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Tag: RTU-6 (5 TON)
 Model: LGT060H4E - LGT060H4E-G 5T CONF S=17

UNIT OVERVIEW

Voltage	SEER SEER2 EER EER2	MCA/MOCP (amp)	Gross Cooling Ttl/Sens (MBH)	Net Cooling Ttl/Sens (MBH)	Supply Air Flow (cfm)	ESP/TSP (in.WC)	EAT DB/WB (°F)	LAT DB/WB (°F)
460V 3Ph 60Hz	17 16.3 12.7 12	14 / 15	63.0 / 47.2	59.4 / 43.6	2,000	0.50 / 0.77	80.0 / 67.0	57.2 / 56.5

COOLING

Cooling Performance			Temperatures (DB/WB °F)		
Gross Cooling (Ttl/Sens)	63.0 / 47.2 MBH		Ambient	95.0	
Net Cooling (Ttl/Sens)	59.4 / 43.6 MBH		Entering	80.0	67.0
Coil Moisture Removal	14.84 lb/hr		Total Leaving - (Coil)	57.2	56.5
System Moisture Removal	14.84 lb/hr		Total Leaving - (Unit)	58.8	57.2

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	61.6 / 60.0 MBH	Cooling Stages	2	Type	R-410A	Qty	1
ARI Power	4,600 W	Compressor Qty	1	Charge	5 LBS. 2 OZ.	Size	1 in.
		Compressor RLA	6.5 amp			Pipe Thread	npt

HUMIDITROL - HOT GAS REHEAT

Humiditrol Dehumidification Performance		Temperatures (DB/WB °F)	
Gross Cooling - Stage 1(Ttl/Sens)	14.2 / 14.2 MBH	Ambient	95.0
Moisture Removal - Stage 1	lb/hr	Entering	80.0
		Total Leaving - (Stage 1)	73.2
			64.8

HEATING

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	87.0 / 66.0 MBH	Total Leaving	39.8	Heat Stages	2
Input (High/Low)	108.0 / 81.0 MBH			Thermal Efficiency NOX	81.0%
Gas 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	1.00 hp	Total	0.77
		Required Power	1.14 hp	Ext Supply	0.50
		Drive Type	ECM Direct Drive		
		Required Watts	849 W		
		Motor Torque	82		

AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.10	0.03	0.04	0.05	0.05			

ELECTRICAL

Voltage	460V 3Ph / 60Hz	Compressor RLA	6.5 amp
MCA	14 amp	Condenser FLA	1.4 amp
MOCP	15 amp	Supply Fan FLA	3.7 amp
Oper Range-Nom Volt	+/- 10%	Cooling FLA Total	11.6 amp

ADDITIONAL DATA

Cabinet	85.25 in. x 47.00 in. x 46.88 in.	Total Weight	796 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



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Filters	(4) 20.0 in. x 20.0 in. x 2.0 in.	Humiditrol Weight	27 lb
Sound Rating	82 dBA	Gas Heat Weight	8 lb



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Tag: RTU-6 (5 TON)

Factory Installed Options

- High Performance Economizer Upgrade Factory Installed
- Dual Enthalpy High Performance Economizer
- Direct Drive
- Unit Orientation Downflow
- Supply Fan: Multi-Speed ECM Direct Drive
- 440V/460V/480V 3Phase
- 80Amp Non-Fused Disconnect Factory Installed
- Built-in BACnet IP and MS/TP (standard)
- Supply Motor - 1.0 Hp ECM - Multi-Speed Direct Drive
- Barometric Relief Damper Factory Installed
- 108K A.S. (Dual Stage)
- Low Nox Factory Installed
- Hinged Access Doors Factory Installed
- 15A GFCI Factory Installed/Field Wired
- Environ Evaporator and Condenser Coil System Factory Installed
- Drain Pan Overflow Switch Factory Installed
- Humiditrol Factory Installed
- 2" MERV8 - Filter Factory installed

Field Installed Accessories

Catalog Number	Qty	Description
10C89	1	Weatherproof GFCI Cover 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
- Timed Off Control
- Internal Pressure Relief Valve
- Thermostat Control – 2 Stages of Cooling
- Humiditrol - Hot Gas Reheat Dehumidification System

Heating System

- Redundant Automatic Gas Valve with Manual Shut-off
- Electronic Flame Sensor
- Direct Spark Ignition
- Inshot Burners
- AGA-CGA Certified
- 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
- Built-in BACnet IP & MS/TP
- Return Air Sensor Factory Installed
- Outdoor Air Sensor Factory Installed
- Factory Installed Discharge Air Sensor

Compliance



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Components are Bonded for Grounding
Factory Test Operated

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

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ISO 9001 Registered Manufacturing Quality System

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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

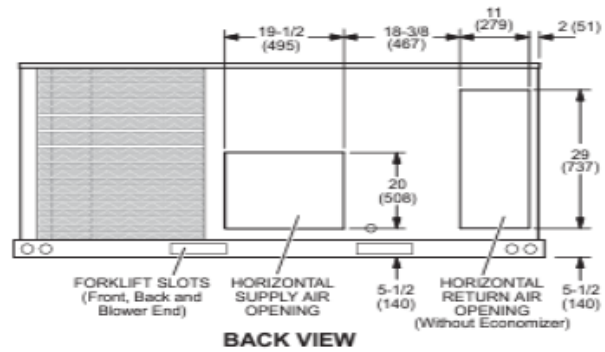
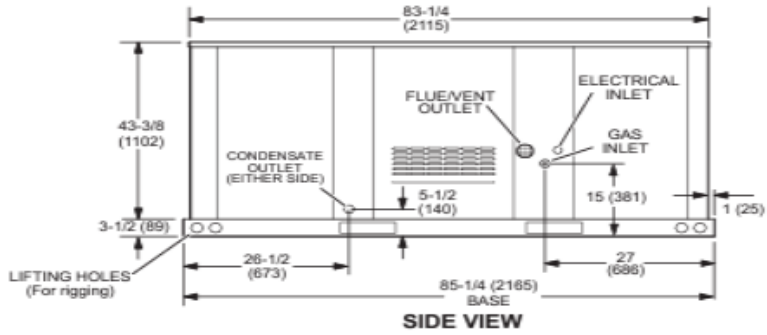
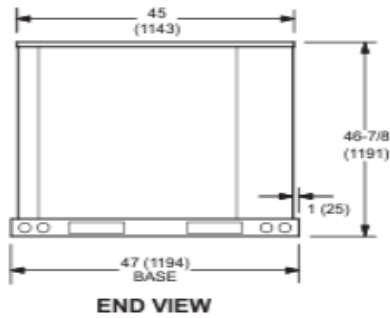
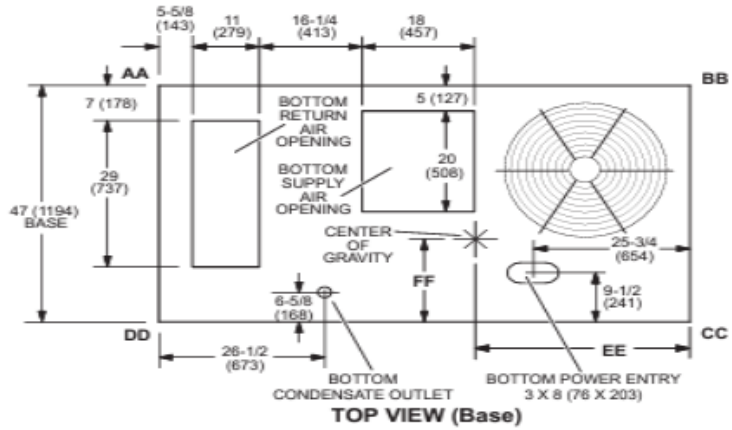
See Limited Warranty Certificate included with unit for details

Limited warranty on Lennox® CORE Control System of 3 years



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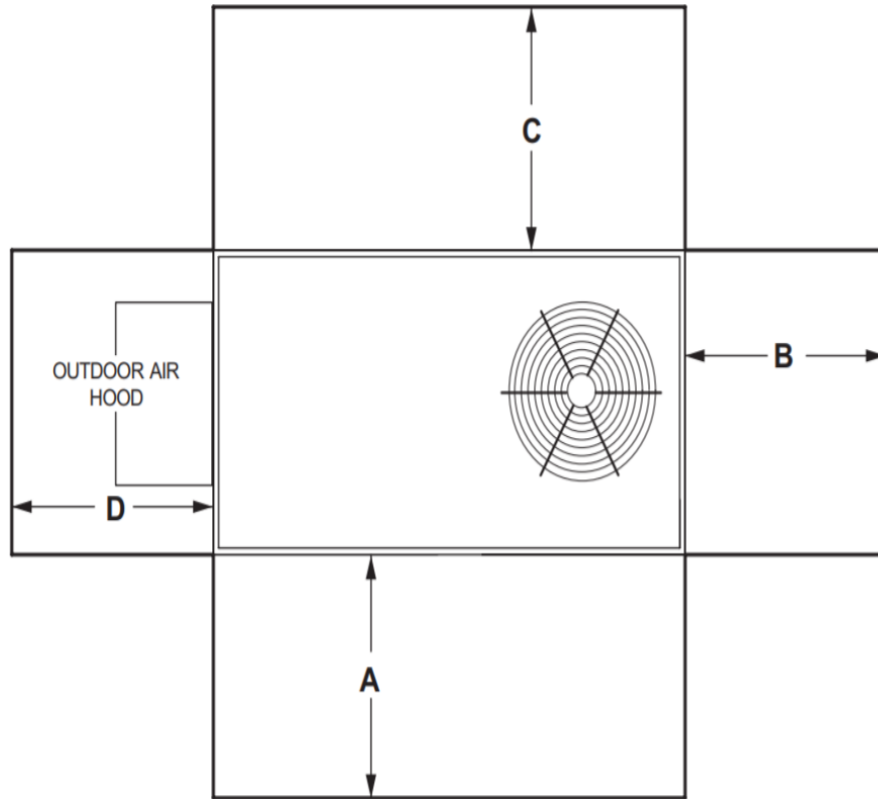
Corner Weights (lb)						Center of Gravity (in.)					
AA		BB		CC		DD		EE		FF	
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
131	168	161	207	220	283	179	230	38.25	39.75	19.88	19.88





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.



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Tag: Miscellaneous Items

Miscellaneous Items

Tag	Catalog Number	Qty	Description
Temp/Humidity Sensor (6)	21W06	6	RH & Temp Combo Field Installed