



Lennox National Accounts Project Submittal

Project Name: Ross #0593-Puyallup, WA
Project Number: 832043
Project Altitude: 620
Project Location:
4102 South Meridian
Puyallup, Washington US

Date: 2/19/2025

Quote: 557802

Roof Top Units: 7

Split Systems: 0

PRMH20251022

Customer: Ross Dress For Less
National Account: Ross Dress For Less

Full-Sized legible color report must be on site and made available by the Permittee for all inspections.

Table of Contents

Tag	Qty	Model	Description
<u>RTU 1,2</u> RTU-1 & 6	2	LGT036H5E	LGT036H5E-G 3T
<u>RTU 3</u> RTU-2	1	LGT156H5M	LGT156H5M-G 13T
<u>RTU 4</u> RTU-3	1	LGT092H5E	LGT092H5E-G 7.5T
<u>RTU 5</u> RTU-4	1	LGT120H5E	LGT120H5E-G 10T
<u>RTU 6,7</u> RTU-5 & 7	2	LGT072H5E	LGT072H5E-G 6T
<u>Miscellaneous Items</u>			

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

AutoCAD® Templates - [Click here](#)



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Tag: RTU 1,2
Model: LGT036H5E - LGT036H5E-G 3T

UNIT OVERVIEW

Voltage	SEER2 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	17.5 13.5	10 / 15	37.8 / 27.6	36.1 / 25.9	1,200	0.80 / 0.92	80.0 / 67.0	57.7 / 56.5

COOLING

Cooling Performance			Temperatures (DB/WB °F)		
Gross Cooling (Ttl/Sens)	37.8 / 27.6 MBH	Ambient	95.0		
Net Cooling (Ttl/Sens)	36.1 / 25.9 MBH	Entering	80.0	67.0	
Coil Moisture Removal	9.62 lb/hr	Total Leaving – (Coil)	57.7	56.5	
System Moisture Removal	9.62 lb/hr	Total Leaving – (Unit)	59.1	57.1	

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	36.6 / 36.0 MBH	Cooling Stages	2.0	Type	R-454B	Qty	1
ARI Power	2,700 W	Compressor Qty	1	Charge	4 LBS. 14 OZ.	Size	1 in.
		Compressor RLA	4.6 amp			Pipe Thread	npt

HEATING

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	52.0 / 43.0 MBH	Total Leaving	40.9	Heat Stages	2
Input (High/Low)	65.0 / 53.0 MBH			Thermal Efficiency NOX	81.0%
Gas 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	0.50 hp	Total	0.92
Outdoor	150	Required Power	0.54 hp	Ext Supply	0.80
		Drive Type	ECM Direct Drive		
		Required Watts	401 W		
		Motor Torque	76		

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	460V 3Ph / 60Hz	Compressor RLA	4.6 amp
MCA	10 amp	Condenser FLA	1.4 amp
MOCP	15 amp	Supply Fan FLA	2.2 amp
Oper Range-Nom Volt	+/- 10%	Cooling FLA Total	8.2 amp

ADDITIONAL DATA

Cabinet	85.25 in. x 47.00 in. x 46.88 in.	Total Weight	745 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	84 lb
Filters	(4) 20.0 in. x 20.0 in. x 2.0 in.	Coil/Hail Guard Weight	31 lb
Sound Rating	75 dBA		



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Tag: RTU 1,2

Factory Installed Options

High Performance Economizer Factory Installed
Global High Performance Economizer
Direct Drive
Unit Orientation Downflow
Supply Fan: Multi-Speed ECM Direct Drive
440V/460V/480V 3Phase
15 Amp Circuit Breaker Factory Installed
Built-in BACnet IP and MS/TP (standard)
Refrigerant R-454B
Supply Motor - 0.50 Hp ECM - w/ MSAV
Barometric Relief Damper Factory Installed
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 Evaporator and Condenser Coil System Factory Installed
2" MERV8 - Filter Factory installed

Field Installed Accessories

Catalog Number	Qty	Description
31B05	2	Curb Adapter AC/LN01/LN06

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

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



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Refrigerant Detection System (RDS) and mitigation response, per UL safety standard 60335-2-40

Compliance

Components are Bonded for Grounding

Factory Test Operated

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

All models meet DOE 2023 energy efficiency standards

All models are compliant with and listed to UL standard 60335-2-40

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

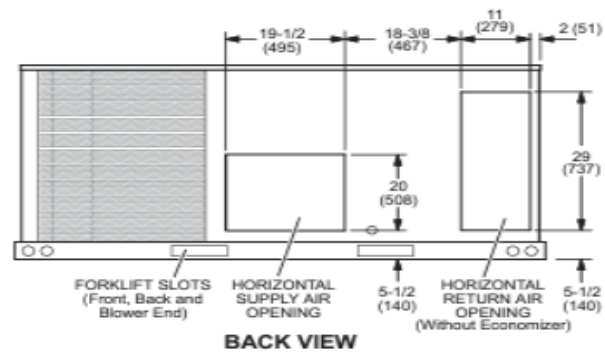
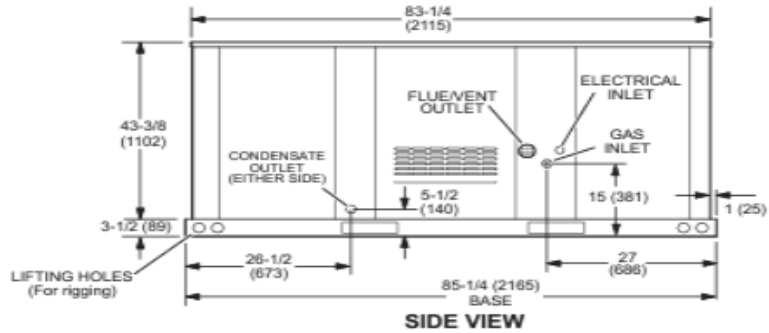
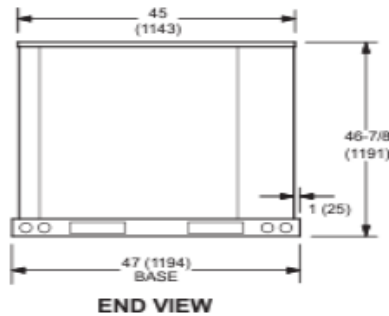
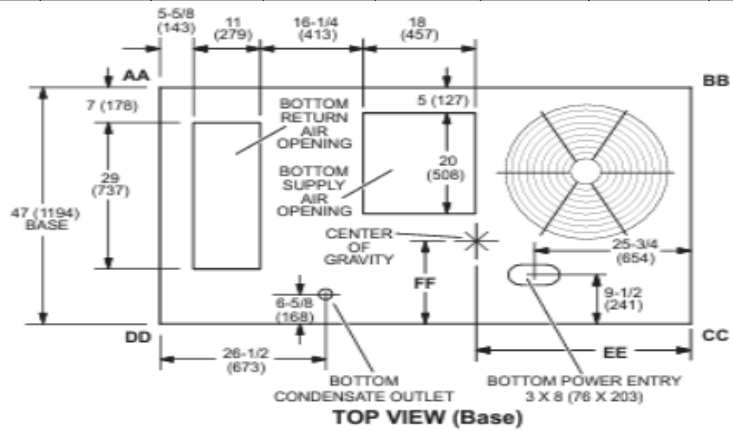
Limited warranty on Lennox® CORE Control System of 3 years

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





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PART #: AC / LN01 / LN06 OLD UNIT: LENNOX LCA/LGA 036-072	REV: C WEIGHT (LBS.): 95	APPROVED BY: _____ NEW UNIT: LENNOX LCM/LCT/LGM/LGT 036-072; KCB/KGB 024-074	DATE: _____
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FRONT VIEW

EXISTING CURB

SIDE VIEW

OPTIONAL RESTRAINT BRACKETS SHOWN

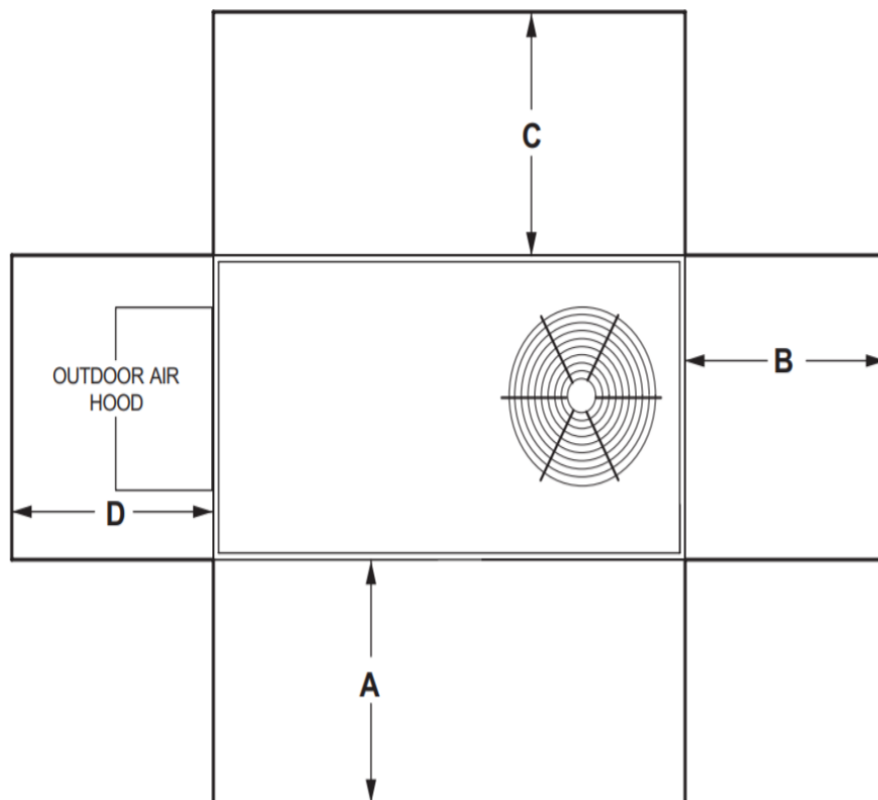
CFM (TONS)	SUPPLY PRESSURE DROP	RETURN PRESSURE DROP	TOTAL PRESSURE DROP
800(2T)	.006	.011	.017
1200(3T)	.014	.026	.040
1600(4T)	.023	.046	.069
2000(5T)	.037	.073	.110
2400(6T)	.053	.105	.158

<p>AES INDUSTRIES Tallapoosa, AL (800) 786-0402 www.aescurb.com</p>	• DRAWING INFORMATION CONTAINED IS CONFIDENTIAL PROPERTY OF AES INDUSTRIES INC. AND MAY NOT BE REPRODUCED WITHOUT EXPRESS WRITTEN PERMISSION • AES RESERVES THE RIGHT TO CHANGE PRODUCT DESIGN WITH RESPECT TO PERFORMANCE, HEIGHT, GAUGE, ETC.	FEATURES: • HEAVY GA GALVANIZED STEEL CONSTRUCTION • 1" DUCT LINER ON ALL SURFACES • NEOPRENE GASKET INCLUDED • PRE-PUNCHED HOLES IN BASE FLANGE • LIFTING EYES/LUGS PROVIDED • WIND BRACKETS OPTIONAL, SITE SPECIFIC	NOTE: Prior to approving submittal 1. Verify existing and new unit model numbers. 2. Verify dimensions of existing roof curb are less than OD of adapter base. 3. Verify existing return & supply openings (size and location) 4. Ensure sufficient clearances between curb/RTU & adjacent equipment. 5. Mark drawings with any changes (if needed), sign and return.	DRAWN BY: ABAKER DWG DATE: 10/27/2022 SHEET: 1 of 1
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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: RTU 3
Model: LGT156H5M - LGT156H5M-G 13T

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	15.4 12	32 / 40	154.6 / 117.5	146.6 / 109.5	5,200	1.00 / 1.10	80.0 / 67.0	58.1 / 57.2

COOLING

Cooling Performance		Temperatures (DB/WB °F)	
Gross Cooling (Ttl/Sens)	154.6 / 117.5 MBH	Ambient	95.0
Net Cooling (Ttl/Sens)	146.6 / 109.5 MBH	Entering	80.0 67.0
Coil Moisture Removal	34.97 lb/hr	Total Leaving – (Coil)	58.1 57.2
System Moisture Removal	34.97 lb/hr	Total Leaving – (Unit)	59.6 57.7

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	152.0 / 148.0 MBH	Cooling Stages	3.0	Type	R-454B	Qty	1
ARI Power	12,300 W	Compressor Qty	2	Charge	16 LBS. 10 OZ.	Size	1 in.
		Compressor RLA	18.2 amp			Pipe Thread	FPT

HEATING

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	211.0 / 69.0 MBH	Total Leaving	37.6	Heat Stages	2
Input (High/Low)	260.0 / 85.0 MBH			Thermal Efficiency	81.0%
Gas Heat Rise	37.6 °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	1.10
Outdoor	850	Required Power	2.66 hp	Ext Supply	1.00
		Drive Type	MSAV Belt Drive		
		RPM Range	710 - 965 rpm		
		Required RPM	856 rpm		
		Exh Fan Nom HP	0.33 hp		

AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.02		0.06		0.02			

ELECTRICAL

Voltage	460V 3Ph / 60Hz	Compressor RLA	18.2 amp
MCA	32 amp	Condenser FLA	4.0 amp
MOCP	40 amp	Supply Fan FLA	4.8 amp
Oper Range-Nom Volt	+/- 10%	Exh Fan Mtr FLACooling FLA	1.3 amp29.6 amp
		Total	

ADDITIONAL DATA

Cabinet	107.75 in. x 91.12 in. x 54.25 in.	Total Weight	2,303 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	197 lb
Filters	(6) 24.0 in. x 24.0 in. x 2.0 in.	Exhaust Weight	62 lb
Sound Rating	86 dBA	Coil/Hail Guard Weight	30 lb



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Tag:

RTU 3

Factory Installed Options

High Performance Economizer Factory Installed
Global High Performance Economizer
Belt Drive
Unit Orientation Downflow
Supply Fan: Multi-Stage Air Volume Belt
440V/460V/480V 3Phase
40 Amp Circuit Breaker Factory Installed
Built-in BACnet IP and MS/TP (standard)
Refrigerant R-454B
Supply Motor - 3.0 Hp Std- w/ MSAV
Supply Drive Kit 2 (710-965 RPM)
Std Static Power Exhaust Fan Factory Installed
260K 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

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 Installed Discharge Air Sensor
Refrigerant Detection System (RDS) and mitigation response, per UL safety standard 60335-2-40
Blower Proving Switch

Compliance

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



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All models meet DOE 2023 energy efficiency standards
All models are compliant with and listed to UL standard 60335-2-40

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

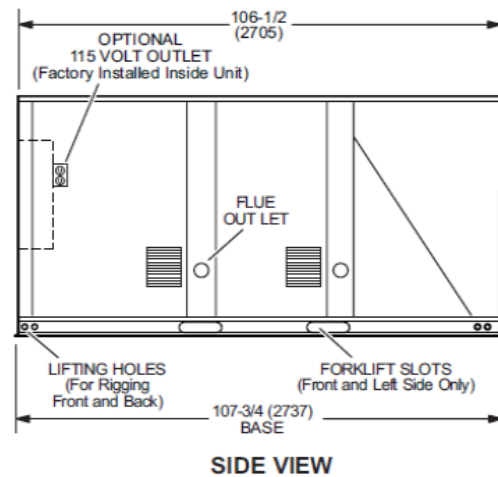
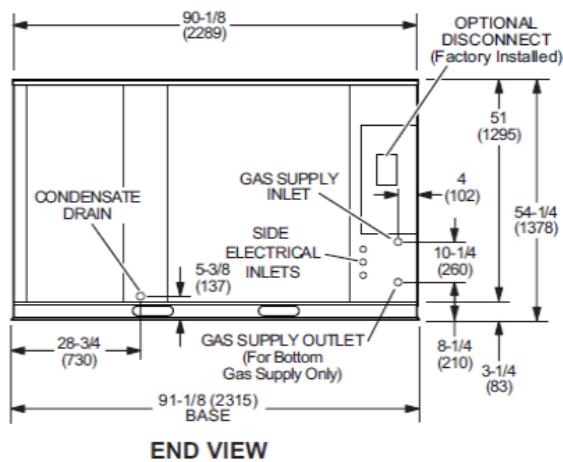
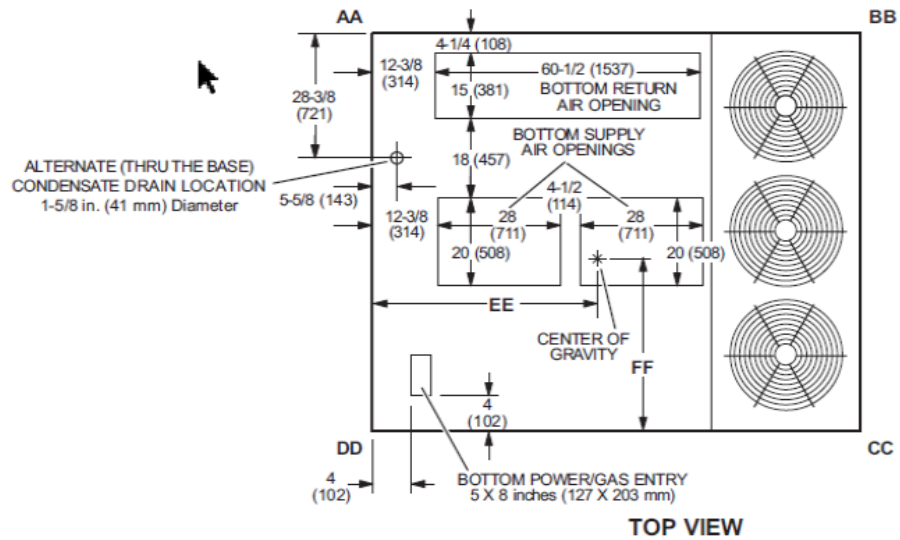
Warranty

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
Limited warranty on Lennox® CORE Control System of 3 years
See Limited Warranty Certificate included with unit for details



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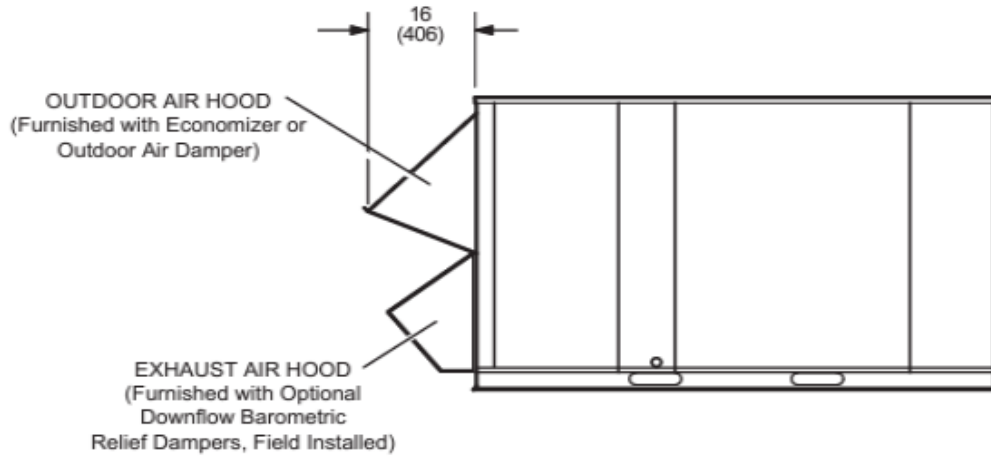
Corner Weights (lb)								Center of Gravity (in.)			
AA		BB		CC		DD		EE		FF	
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
481	596	399	487	514	547	620	669	48.88	48.50	39.75	43.00



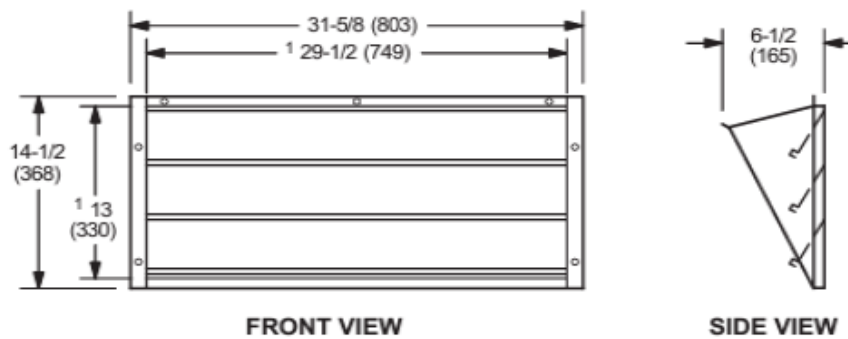


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OUTDOOR AIR HOOD DETAIL



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



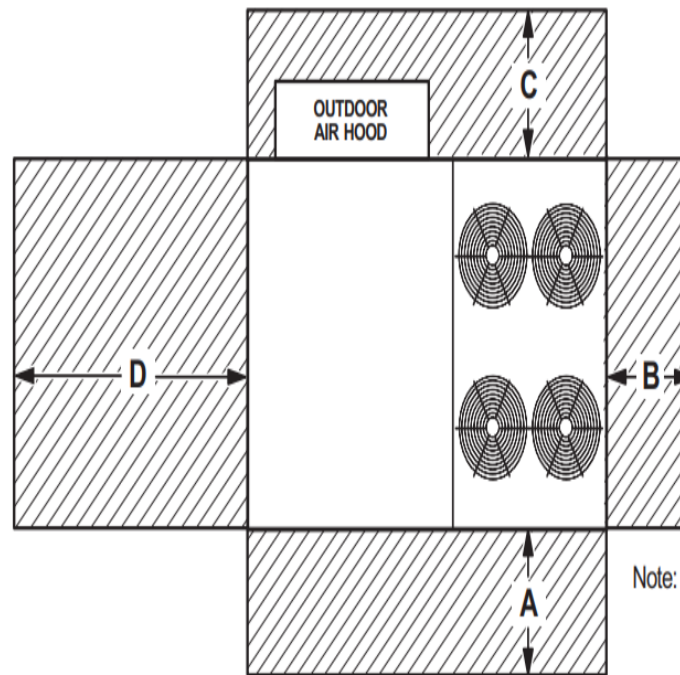
NOTE - Two furnished per order no.

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.



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Tag: RTU 4
Model: LGT092H5E - LGT092H5E-G 7.5T

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	16.1 12.3	24 / 25	94.7 / 68.2	90.0 / 63.5	3,000	1.00 / 1.36	80.0 / 67.0	58.0 / 56.5

COOLING

Cooling Performance			Temperatures (DB/WB °F)		
Gross Cooling (Ttl/Sens)	94.7 / 68.2 MBH	Ambient	95.0		
Net Cooling (Ttl/Sens)	90.0 / 63.5 MBH	Entering	80.0	67.0	
Coil Moisture Removal	24.99 lb/hr	Total Leaving – (Coil)	58.0	56.5	
System Moisture Removal	24.99 lb/hr	Total Leaving – (Unit)	59.5	57.1	

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	94.0 / 92.0 MBH	Cooling Stages	3.0	Type	R-454B	Qty	1
ARI Power	7,600 W	Compressor Qty	2	Charge	12 LBS. 2 OZ.	Size	1 in.
		Compressor RLA	13.2 amp			Pipe Thread	npt

HEATING

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	104.0 / 67.6 MBH	Total Leaving	32.1	Heat Stages	2
Input (High/Low)	130.0 / 84.5 MBH			Thermal Efficiency	81.0%
Gas Heat Rise	32.1 °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	1.36
Outdoor	600	Required Power	1.47 hp	Ext Supply	1.00
		Drive Type	ECM Direct Drive		
		Required Watts	1,096 W		
		Exh Fan Nom HP	0.33 hp		

AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.10		0.11	0.13	0.02			

ELECTRICAL

Voltage	460V 3Ph / 60Hz	Compressor RLA	13.2 amp
MCA	24 amp	Condenser FLA	2.6 amp
MOCP	25 amp	Supply Fan FLA	4.3 amp
Oper Range-Nom Volt	+/- 10%	Exh Fan Mtr FLACooling FLA	1.3 amp21.4 amp
		Total	

ADDITIONAL DATA

Cabinet	101.25 in. x 60.12 in. x 46.88 in.	Total Weight	1,260 lb
Downflow Supply	20.0 in. x 28.0 in.	Base Unit Net Weight	1,088 lb
Downflow Return	24.0 in. x 27.0 in.	OAS/Econ Weight	86 lb
Filters	(4) 20.0 in. x 25.0 in. x 2.0 in.	Exhaust Weight	31 lb
Sound Rating	88 dBA	Coil/Hail Guard Weight	55 lb



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Tag: RTU 4

Factory Installed Options

High Performance Economizer Factory Installed
Global High Performance Economizer
Direct Drive
Unit Orientation Downflow
Supply Fan: Multi-Speed ECM Direct Drive
440V/460V/480V 3Phase
25 Amp Circuit Breaker Factory Installed
Built-in BACnet IP and MS/TP (standard)
Refrigerant R-454B
Supply Motor - 3.75 Hp - DirectPlus w/MSAV
Std Static Power Exhaust Fan Factory Installed
130K 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
15T04	1	C1ACURB30B LG/C/HA088D,LGA100 TO B

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

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
Phase/Voltage Detection
Return Air Sensor Factory Installed
Outdoor Air Sensor Factory Installed
Factory Installed Discharge Air Sensor
Refrigerant Detection System (RDS) and mitigation response, per UL safety standard 60335-2-40



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Compliance

Components are Bonded for Grounding

Factory Test Operated

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

All models meet DOE 2023 energy efficiency standards

All models are compliant with and listed to UL standard 60335-2-40

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

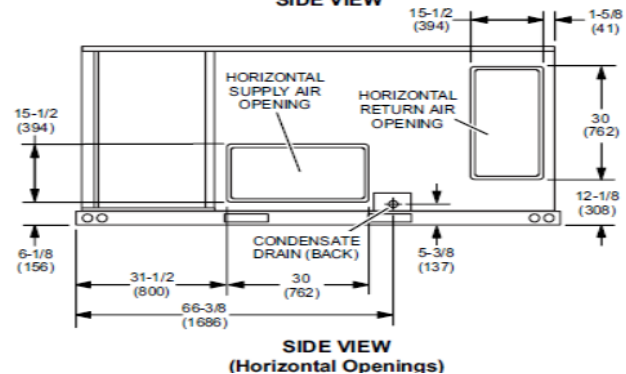
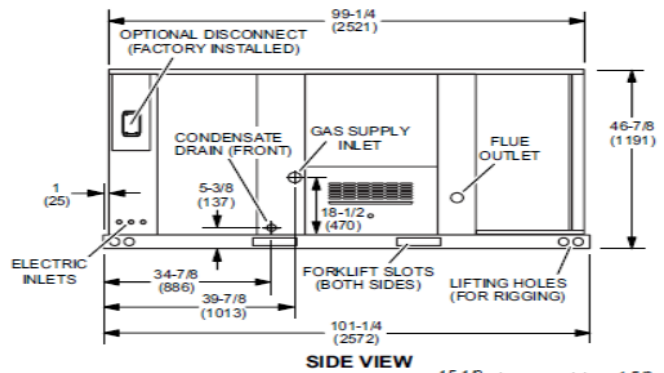
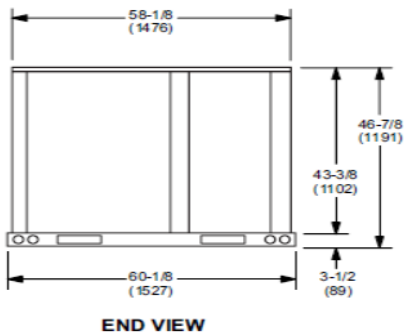
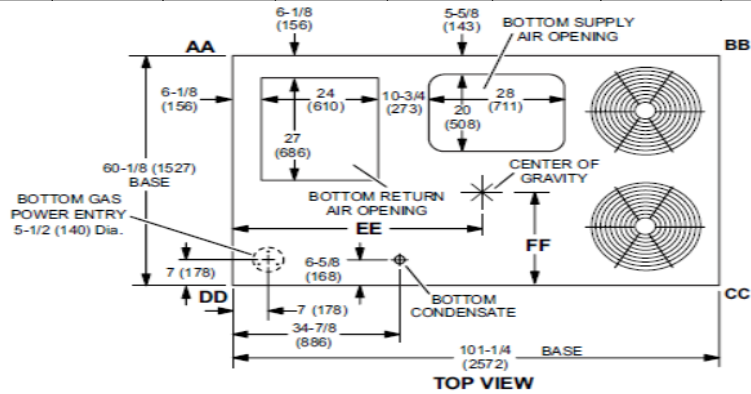
Limited warranty on Lennox® CORE Control System of 3 years

See Limited Warranty Certificate included with unit for details



Lennox National Accounts Project Submittal

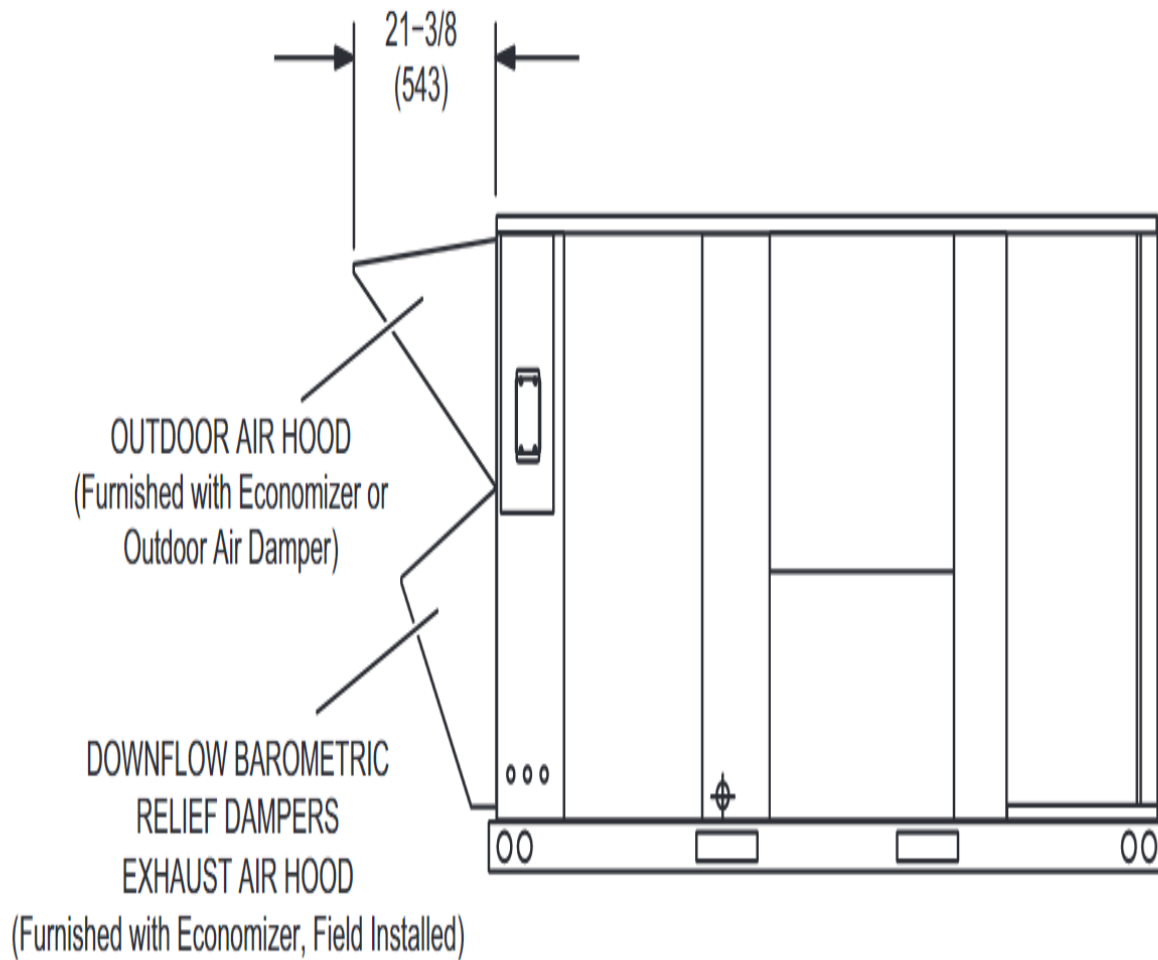
Corner Weights (lb)						Center of Gravity (in.)					
AA		BB		CC		DD		EE		FF	
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
293	338	263	295	286	316	326	370	46.50	45.50	24.50	25.50





Lennox National Accounts Project Submittal

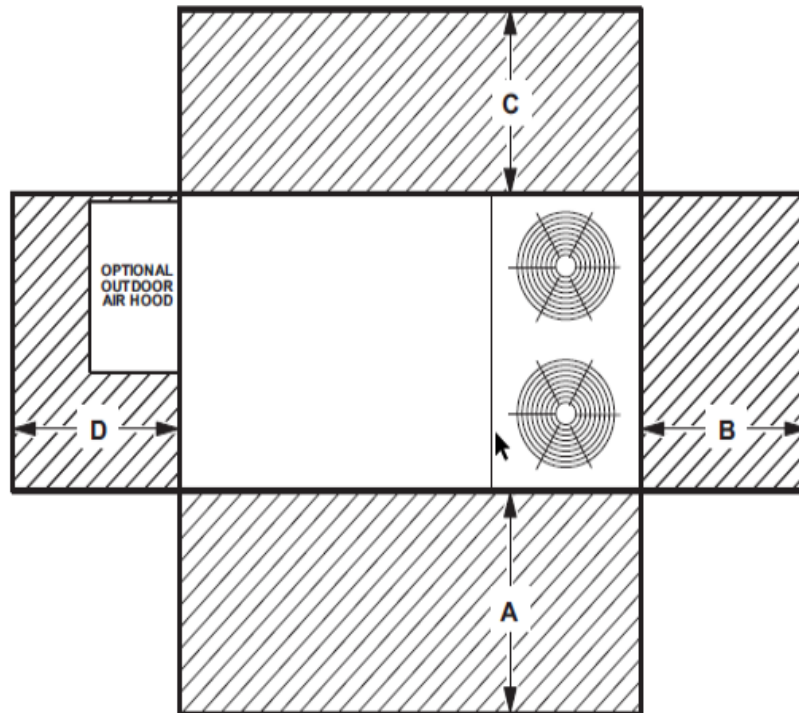
OUTDOOR AIR HOOD DETAIL





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	60	1524	36	914	36	934	60	1524	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: RTU 5
Model: LGT120H5E - LGT120H5E-G 10T

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	16.1 12.1	25 / 30	125.7 / 91.8	119.2 / 85.2	4,000	0.50 / 1.01	80.0 / 67.0	57.8 / 56.6

COOLING

Cooling Performance			Temperatures (DB/WB °F)		
Gross Cooling (Ttl/Sens)	125.7 / 91.8 MBH		Ambient	95.0	
Net Cooling (Ttl/Sens)	119.2 / 85.2 MBH		Entering	80.0	67.0
Coil Moisture Removal	31.99 lb/hr		Total Leaving – (Coil)	57.8	56.6
System Moisture Removal	31.99 lb/hr		Total Leaving – (Unit)	59.4	57.2

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	121.0 / 118.0 MBH	Cooling Stages	3.0	Type	R-454B	Qty	1
ARI Power	9,900 W	Compressor Qty	2	Charge	11 LBS. 12 OZ.	Size	1 in.
		Compressor RLA	14 amp			Pipe Thread	npt

HEATING

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	104.0 / 67.6 MBH	Total Leaving	24.1	Heat Stages	2
Input (High/Low)	130.0 / 84.5 MBH			Thermal Efficiency	81.0%
Gas Heat Rise	24.1 °F			Gas Line Size	0.75 in.
				Gas Pressure	7 in.WC

VENTILATION

Air Flow (cfm)		Supply Fan		Air Resistance (in.WC)	
Supply	4,000	Nominal Power	3.75 hp	Total	1.01
Outdoor	900	Required Power	2.05 hp	Ext Supply	0.50
		Drive Type	ECM Direct Drive		
		Required Watts	1,526 W		
		Exh Fan Nom HP	0.33 hp		

AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.14		0.14	0.19	0.04			

ELECTRICAL

Voltage	460V 3Ph / 60Hz	Compressor RLA	14.0 amp
MCA	25 amp	Condenser FLA	3.0 amp
MOCP	30 amp	Supply Fan FLA	4.3 amp
Oper Range-Nom Volt	+/- 10%	Exh Fan Mtr FLACooling FLA	1.3 amp22.6 amp
		Total	

ADDITIONAL DATA

Cabinet	101.25 in. x 60.12 in. x 46.88 in.	Total Weight	1,272 lb
Downflow Supply	20.0 in. x 28.0 in.	Base Unit Net Weight	1,100 lb
Downflow Return	24.0 in. x 27.0 in.	OAS/Econ Weight	86 lb
Filters	(4) 20.0 in. x 25.0 in. x 2.0 in.	Exhaust Weight	31 lb
Sound Rating	89 dBA	Coil/Hail Guard Weight	55 lb



Lennox National Accounts Project Submittal

Tag:

RTU 5

Factory Installed Options

High Performance Economizer Factory Installed
Global High Performance Economizer
Direct Drive
Unit Orientation Downflow
Supply Fan: Multi-Speed ECM Direct Drive
440V/460V/480V 3Phase
30 Amp Circuit Breaker Factory Installed
Built-in BACnet IP and MS/TP (standard)
Refrigerant R-454B
Supply Motor - 3.75 Hp - DirectPlus w/MSAV
Std Static Power Exhaust Fan Factory Installed
130K A.S. (Dual Stage)
Combination Coil/Hail Guards Factory Installed
Return Air Adaptor Plate 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

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

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
Phase/Voltage Detection
Return Air Sensor Factory Installed
Outdoor Air Sensor Factory Installed
Factory Installed Discharge Air Sensor
Refrigerant Detection System (RDS) and mitigation response, per UL safety standard 60335-2-40

Compliance

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



Lennox National Accounts Project Submittal

All models meet DOE 2023 energy efficiency standards
All models are compliant with and listed to UL standard 60335-2-40

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

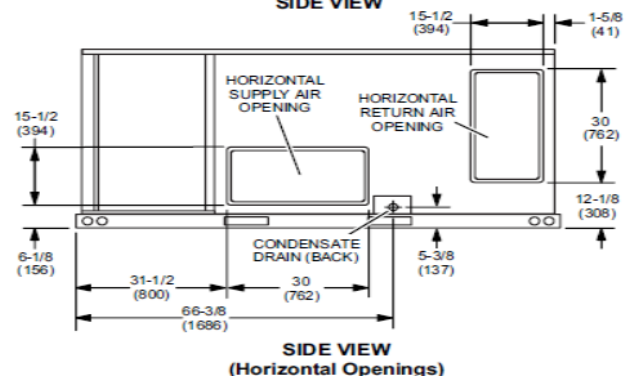
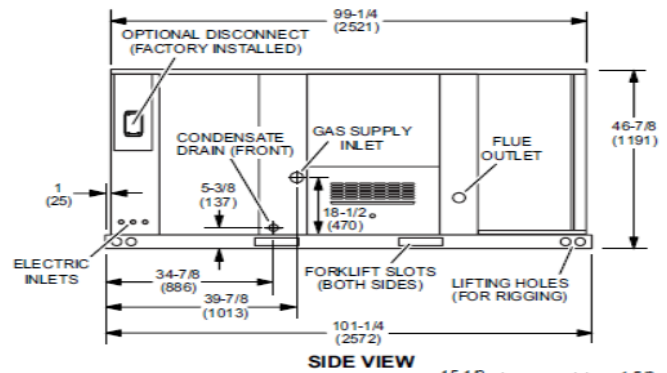
Limited warranty on aluminized heat exchanger of 10 years
Limited warranty on compressor of 5 years
Limited warranty on Environ Coil System of 3 years
Limited warranty on High Performance Economizer of 5 years
Limited warranty on all other components of 1 year
Limited warranty on Lennox® CORE Control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



TOP VIEW

Diagram illustrating the top view of a condenser with various dimensions and labels:

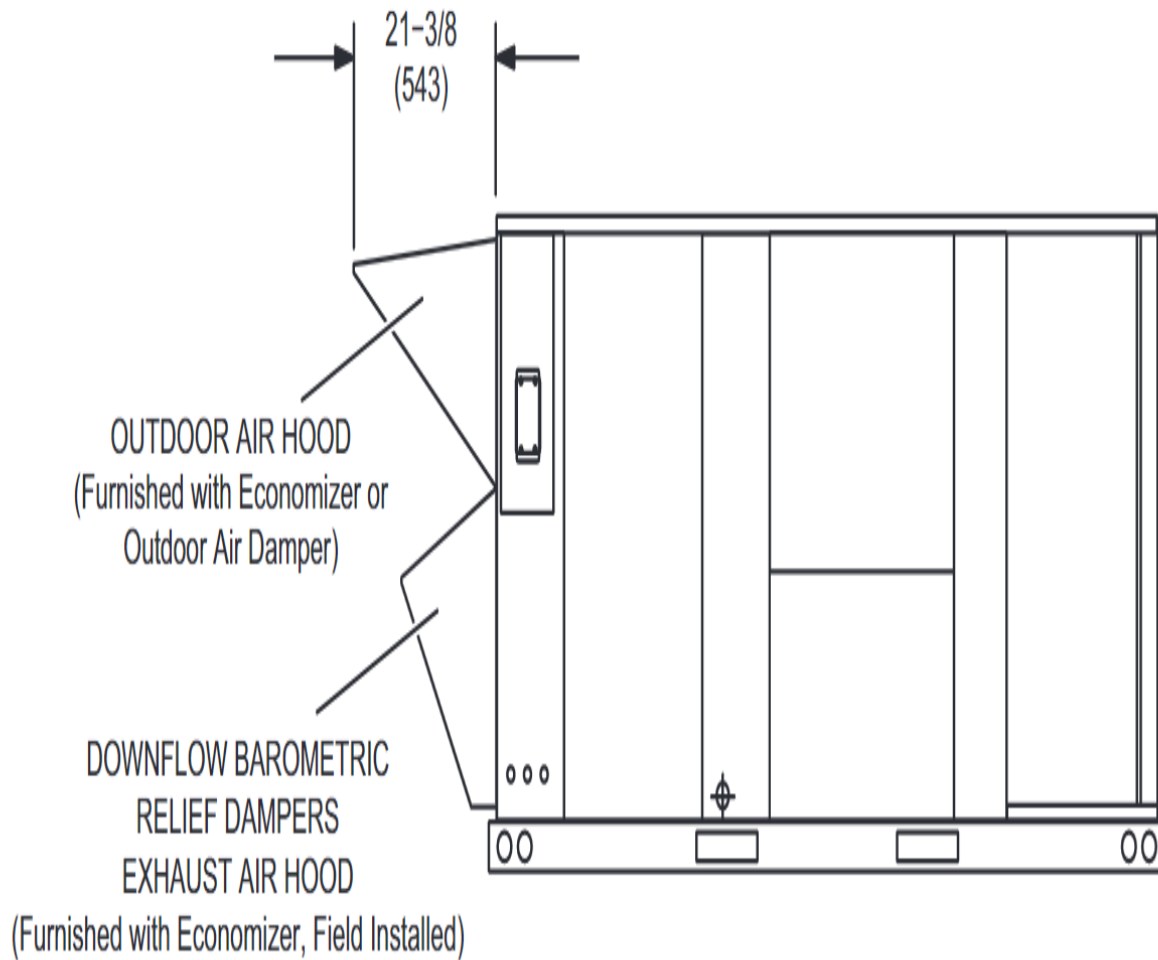
- Dimensions:**
 - Overall width: 101-1/4 (2572)
 - Overall height: 60-1/8 (1527)
 - Internal width (left): 24 (610)
 - Internal width (right): 28 (711)
 - Internal height (left): 27 (686)
 - Internal height (right): 20 (508)
 - Distance from left edge to internal width start: 6-1/8 (156)
 - Distance from left edge to internal width end: 10-3/4 (273)
 - Distance from left edge to internal height start: 6-1/8 (156)
 - Distance from left edge to internal height end: 10-3/4 (273)
 - Distance from left edge to bottom return air opening: 6-5/8 (168)
 - Distance from left edge to bottom condensate: 34-7/8 (886)
 - Distance from left edge to bottom supply air opening: 101-1/4 (2572)
 - Distance from left edge to bottom return air opening: 6-5/8 (168)
 - Distance from left edge to bottom condensate: 34-7/8 (886)
 - Distance from left edge to bottom supply air opening: 101-1/4 (2572)
- Labels:**
 - AA**: Top left corner
 - BB**: Top right corner
 - CC**: Bottom right corner
 - DD**: Bottom left corner
 - EE**: Center of gravity
 - FF**: Bottom return air opening
 - BASE**: Bottom edge
 - BOTTOM GAS POWER ENTRY 5-1/2 (140) Dia.**: Entry point for gas power
 - BOTTOM RETURN AIR OPENING**: Opening for return air
 - BOTTOM SUPPLY AIR OPENING**: Opening for supply air
 - BOTTOM CONDENSATE**: Condensate outlet
 - CENTER OF GRAVITY**: Point of balance





Lennox National Accounts Project Submittal

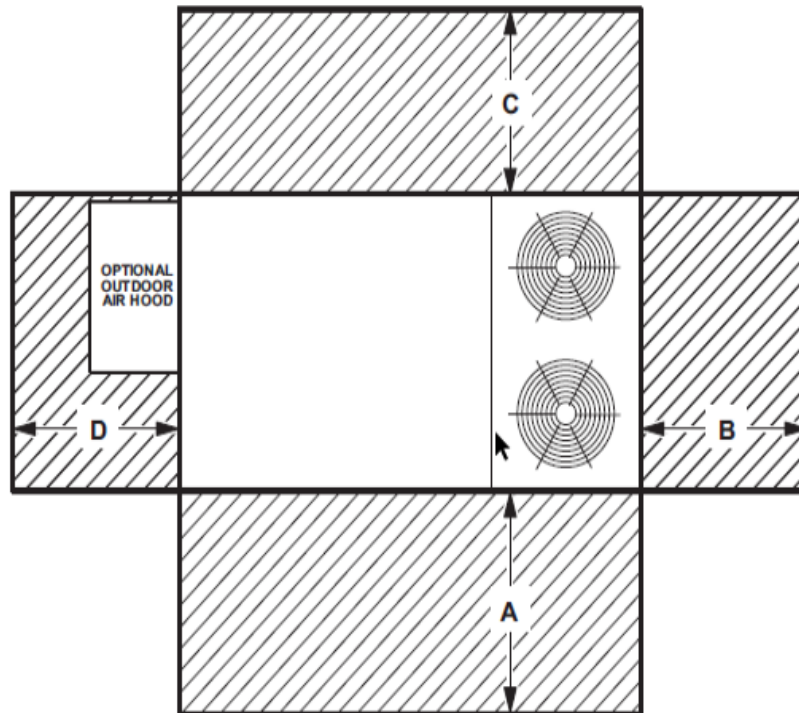
OUTDOOR AIR HOOD DETAIL





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	60	1524	36	914	36	934	60	1524	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: RTU 6,7
Model: LGT072H5E - LGT072H5E-G 6T

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	17.3 12.2	17 / 25	75.7 / 56.8	70.9 / 52.0	2,400	1.00 / 1.27	80.0 / 67.0	57.1 / 56.5

COOLING

Cooling Performance			Temperatures (DB/WB °F)		
Gross Cooling (Ttl/Sens)	75.7 / 56.8 MBH		Ambient	95.0	
Net Cooling (Ttl/Sens)	70.9 / 52.0 MBH		Entering	80.0	67.0
Coil Moisture Removal	17.84 lb/hr		Total Leaving – (Coil)	57.1	56.5
System Moisture Removal	17.84 lb/hr		Total Leaving – (Unit)	59.0	57.3

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	72.0 / 69.0 MBH	Cooling Stages	2.0	Type	R-454B	Qty	1
ARI Power	5,600 W	Compressor Qty	1	Charge	4 LBS. 13 OZ.	Size	1 in.
		Compressor RLA	9.1 amp			Pipe Thread	npt

HEATING

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	52.0 / 43.0 MBH	Total Leaving	20.4	Heat Stages	2
Input (High/Low)	65.0 / 53.0 MBH			Thermal Efficiency NOX	81.0%
Gas Heat Rise	20.4 °F			Gas Line Size	0.5 in.
				Gas Pressure	7 in.WC

VENTILATION

Air Flow (cfm)		Supply Fan		Air Resistance (in.WC)	
Supply	2,400	Nominal Power	1.50 hp	Total	1.27
Outdoor	480	Required Power	1.50 hp	Ext Supply	1.00
		Drive Type	MSAV Direct Drive		
		Required Watts	1,119 W		
		Exh Fan Nom HP	0.33 hp		

AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.13		0.04	0.05	0.05			

ELECTRICAL

Voltage	460V 3Ph / 60Hz	Compressor RLA	9.1 amp
MCA	17 amp	Condenser FLA	1.4 amp
MOCP	25 amp	Supply Fan FLA	2.3 amp
Oper Range-Nom Volt	+/- 10%	Exh Fan Mtr FLACooling FLA	1.3 amp14.1 amp
		Total	

ADDITIONAL DATA

Cabinet	85.25 in. x 47.00 in. x 46.88 in.	Total Weight	780 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	84 lb
Filters	(4) 20.0 in. x 20.0 in. x 2.0 in.	Exhaust Weight	35 lb
Sound Rating	82 dBA	Coil/Hail Guard Weight	31 lb



Lennox National Accounts Project Submittal

Tag: RTU 6,7

Factory Installed Options

High Performance Economizer Factory Installed
Global High Performance Economizer
Direct Drive
Unit Orientation Downflow
Supply Fan: Multi-Speed ECM Direct Drive
440V/460V/480V 3Phase
25 Amp Circuit Breaker Factory Installed
Built-in BACnet IP and MS/TP (standard)
Refrigerant R-454B
Supply Motor - 1.5 Hp ECM - w/ MSAV
Std Static Power Exhaust Fan Factory Installed
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 Evaporator and Condenser Coil System Factory Installed
2" MERV8 - Filter Factory installed

Field Installed Accessories

Catalog Number	Qty	Description
21Z21	2	Barometric Relief Dampers (for PE Kit) Field Installed
31B05	2	Curb Adapter AC/LN01/LN06

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

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



Lennox National Accounts Project Submittal

Factory Installed Discharge Air Sensor
Refrigerant Detection System (RDS) and mitigation response, per UL safety standard 60335-2-40

Compliance

Components are Bonded for Grounding
Factory Test Operated
All models are ASHRAE 90.1 energy efficiency compliant and meet or exceed requirements of Section 6.8
All models meet DOE 2023 energy efficiency standards
All models are compliant with and listed to UL standard 60335-2-40

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

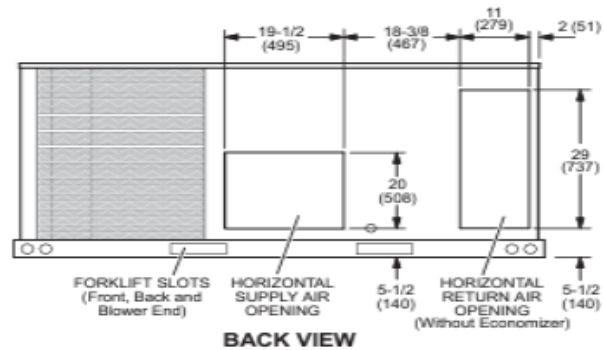
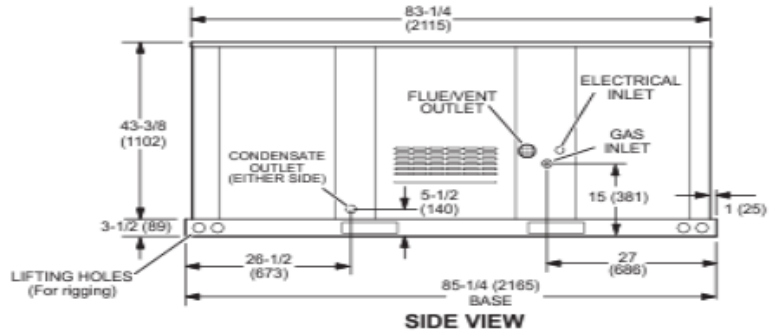
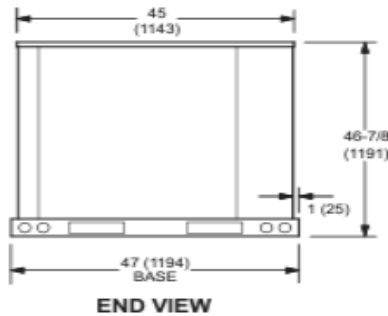
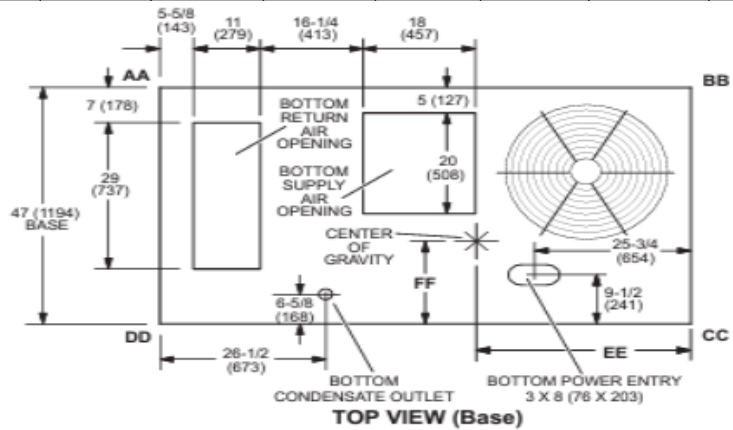
Warranty

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
Limited warranty on Lennox® CORE Control System of 3 years
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	169	161	208	220	284	179	231	38.25	39.75	19.88	19.88





Lennox National Accounts Project Submittal

PART #: AC / LN01 / LN06 OLD UNIT: LENNOX LCA/LGA 036-072	REV: C WEIGHT (LBS.): 95	APPROVED BY: _____ NEW UNIT: LENNOX LCM/LCT/LGM/LGT 036-072; KCB/KGB 024-074	DATE: _____
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FRONT VIEW

EXISTING CURB

SIDE VIEW

OPTIONAL RESTRAINT BRACKETS SHOWN

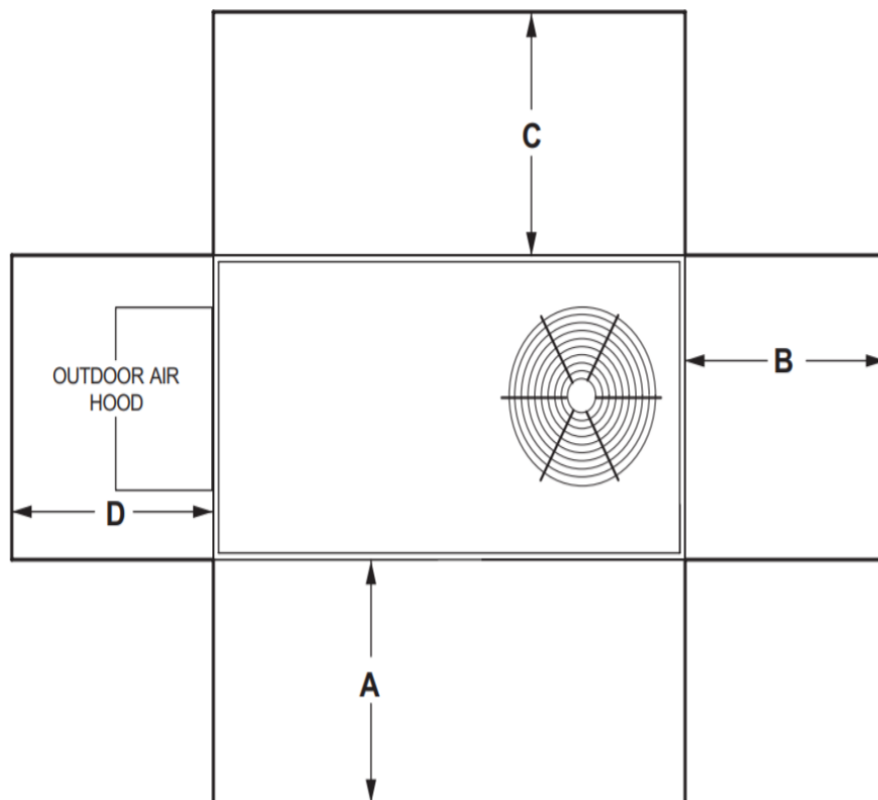
CFM (TONS)	SUPPLY PRESSURE DROP	RETURN PRESSURE DROP	TOTAL PRESSURE DROP
800(2T)	.006	.011	.017
1200(3T)	.014	.026	.040
1600(4T)	.023	.046	.069
2000(5T)	.037	.073	.110
2400(6T)	.053	.105	.158

<p>AES INDUSTRIES Tallahassee, AL (800) 786-0402 www.aescurb.com</p>	<p>• DRAWING INFORMATION CONTAINED IS CONFIDENTIAL PROPERTY OF AES INDUSTRIES INC. AND MAY NOT BE REPRODUCED WITHOUT EXPRESS WRITTEN PERMISSION</p> <p>• AES RESERVES THE RIGHT TO CHANGE PRODUCT DESIGN WITH RESPECT TO PERFORMANCE, HEIGHT, GAUGE, ETC.</p>	<p>FEATURES:</p> <ul style="list-style-type: none"> • HEAVY GA GALVANIZED STEEL CONSTRUCTION • 1" DUCT LINER ON ALL SURFACES • NEOPRENE GASKET INCLUDED • PRE-PUNCHED HOLES IN BASE FLANGE • LIFTING EYES/LUGS PROVIDED • WIND BRACKETS OPTIONAL, SITE SPECIFIC 	<p>NOTE: Prior to approving submittal</p> <ol style="list-style-type: none"> 1. Verify existing and new unit model numbers. 2. Verify dimensions of existing roof curb are less than OD of adapter base. 3. Verify existing return & supply openings (size and location) 4. Ensure sufficient clearances between curb/RTU & adjacent equipment. 5. Mark drawings with any changes (if needed), sign and return. 	<p>DRAWN BY: ABAKER</p> <p>DWG DATE: 10/27/2022</p> <p>SHEET: 1 of 1</p>
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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: Miscellaneous Items

Miscellaneous Items

Tag	Catalog Number	Qty	Description
CURB CLIPS			
	X6523	44	CRP WIND SEISMIC RESTR BRKTS
EOC			
	EOC	7	EOC & Guided Setup
TEMP SENSORS			
	94L60	7	C0SNZN07AE1- SENSOR, NONADJST TEMP