



# Lennox National Accounts Project Submittal

**Project Name:** Kroger A946-Cold Springs, KY  
**Project Number:** 517716  
**Project Altitude:** 500  
**Project Location:**  
70 MARTHA LAYNE COLLINS BLVD.  
Cold Springs, Kentucky US

**Date:** 11/7/2023  
**Quote:** 401381  
**Roof Top Units:** 1  
**Split Systems:** 0


**Customer:** KPS LLC  
**Engineer:** KLH Engineers  
**National Account:** Kroger Co

## Table of Contents

Tag	Qty	Model	Description
<u>RTU-1</u>	1	LGM036U4E	LGM036U4E-Y 3T CONF S=22.5
<u>Miscellaneous Items</u>			

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

AutoCAD® Templates - [Click here](#)

<p>REVIEW IS ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS.</p> <p>CONTRACTORS ARE RESPONSIBLE FOR:</p> <p>A) DIMENSIONS AND QUANTITIES TO BE CONFIRMED AND CORRELATED AT THE JOB SITE.</p> <p>B) INFORMATION THAT PERTAINS SOLELY TO FABRICATION PURPOSES, MEANS AND METHODS OF CONSTRUCTION, SAFETY PRECAUTIONS, TECHNIQUES, AND PROCEDURES.</p> <p>C) COORDINATION AND/OR SCHEDULING OF DELIVERIES AND THE WORK FOR ALL TRADES.</p> <p>D) ANY OTHER ASPECT OF THE SUBMITTAL PROCESS AS SPECIFIED IN THE CONTRACT DOCUMENTS.</p> <p>REVIEW NOTES DO NOT AUTHORIZE CHANGES TO THE CONTRACT SUM UNLESS STATED IN A SEPARATE CHANGE ORDER.</p> <p><input type="checkbox"/> NO EXCEPTIONS      <input type="checkbox"/> REVISE &amp; RESUBMIT</p> <p><input checked="" type="checkbox"/> REVIEWED &amp; NOTED      <input type="checkbox"/> REJECTED</p> <p><input type="checkbox"/> NOT REVIEWED</p> <p>BY: <b>JAYSON TARANTINO</b>      DATE: <b>11/17/2023</b></p>	
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VERIFY REDUCED ELECTRICAL LOADS WITH ELECTRICAL CONTRACTOR

Tag: RTU-1  
Model: LGM036U4E - LGM036U4E-Y 3T CONF S=22.5

## UNIT OVERVIEW

Voltage	SEER 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)
208V 3Ph 60Hz	22.5 15	19 / 25	35.8 / 29.0	34.1 / 27.3	1,200	1.00 / 1.11	80.0 / 67.0	56.5 / 56.5

## COOLING

Cooling Performance		Temperatures (DB/WB °F)	
Gross Cooling (Ttl/Sens)	35.8 / 29.0 MBH	Ambient	95.0
Net Cooling (Ttl/Sens)	34.1 / 27.3 MBH	Entering	80.0
Coil Moisture Removal	6.41 lb/hr	Leaving - (Coil)	56.5
System Moisture Removal	6.41 lb/hr	Leaving - (Unit)	57.9

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	34.6 / 34.0 MBH	Cooling Stages		Type	R-410A	Qty	1
ARI Power	2,300 W	Compressor Qty	1	Charge	17 LBS. 0 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	Leaving	40.1	Heat Stages	2
Input (High/Low)	65.0 / 53.0 MBH			Thermal Efficiency NOX	81.0%
Heat Rise	40.1 °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	1.11
Outdoor	155	Required Power	0.52 hp	Ext Supply	1.00
	0	Drive Type	MSAV Direct Drive		
		Required Watts	388 W		

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

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

## ELECTRICAL

Voltage	208V 3Ph / 60Hz	Compressor RLA	9.1 amp
MCA	19 amp	Cooling FLA Total	16.3 amp
MOCP	25 amp	Condenser FLA	2.8 amp
Condenser Power	200 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	903 lb
Downflow Supply	20.0 in. x 18.0 in.	Base Unit Net Weight	722 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.	Coil Hail Guard Weight	0 lb
Sound Rating	73 dBA		

VERIFY INCREASED WEIGHT WITH STRUCTURAL ENGINEER VS. EXISTING UNIT.



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Tag: RTU-1

VERIFY EXTRA OPTIONS ARE IN ACCORDANCE WITH KROGER NATIONAL ACCOUNT STANDARDS.

- ECONOMIZER NOT REQUIRED PER CODE.
- MSAV NOT NECESSARILY NEEDED.
- SMOKE DETECTOR IN SUPPLY IS NOT NEEDED.

## Factory Installed Options

- High Performance Economizer Upgrade Factory Installed
- Dual Enthalpy Economizer
- Standard Cap, Std Packaging
- Direct Drive
- Unit Orientation Downflow
- Supply Fan: Multi-Stage Air Volume
- 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 Factory Installed
- 65K A.S. (Dual Stage)
- Low Nox Factory Installed
- Combination Coil/Hail Guards Factory Installed
- Hinged Access Doors Factory Installed
- GFCI Factory Installed/Field Wired
- Phase/Voltage Detection Factory Installed
- Dirty Filter Switch Factory Installed
- Discharge Air Control Factory Installed
- Supply Air Smoke Detector Factory Installed
- Return Air Smoke Detector Factory Installed
- Tube and Fin Coil System Factory Installed
- Drain Pan Overflow Switch Factory Installed
- 2" MERV8 - Filter Factory installed

## Field Installed Accessories

Catalog Number	Qty	Description
Y3027	1	BE RTS2-AOS Multi Signal Accessory
X6523	6	CRP WIND SEISMIC RESTR BRKTS

## 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

- 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
- Lead, Inverter-Driven Variable-Capacity Scroll Compressor

### 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



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

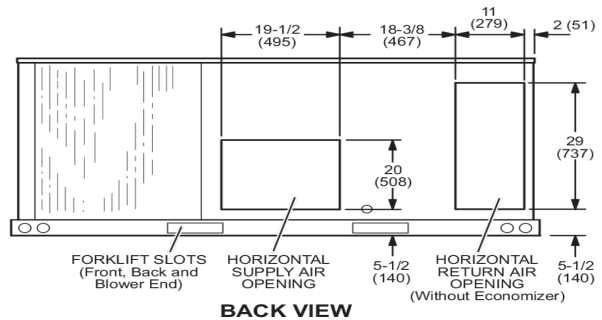
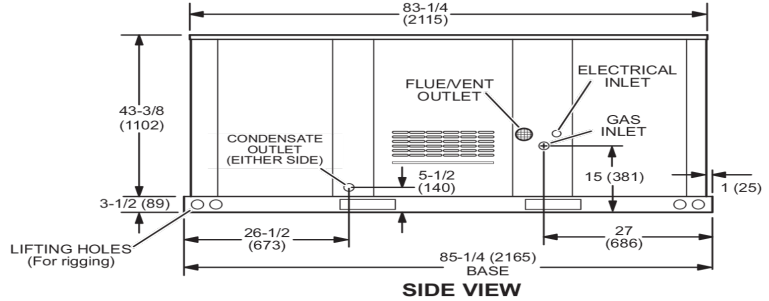
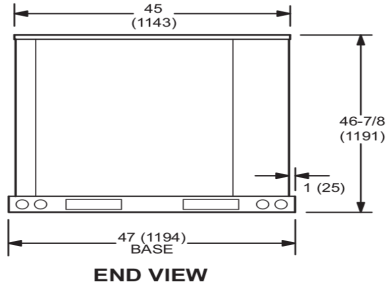
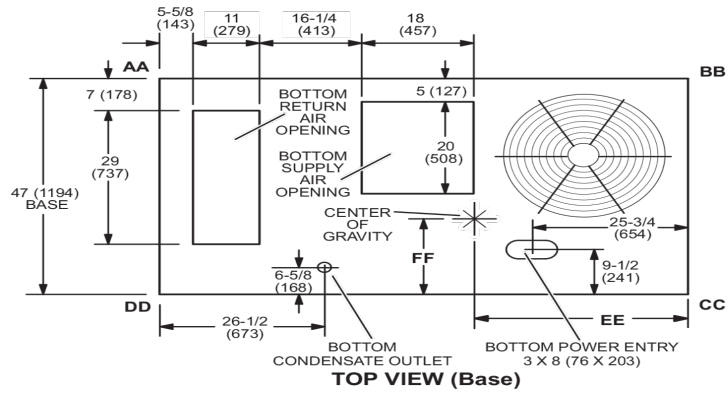
## **Warranty**

Limited warranty on aluminized heat exchanger of 10 years  
Limited warranty on compressor of 5 years  
Limited warranty on 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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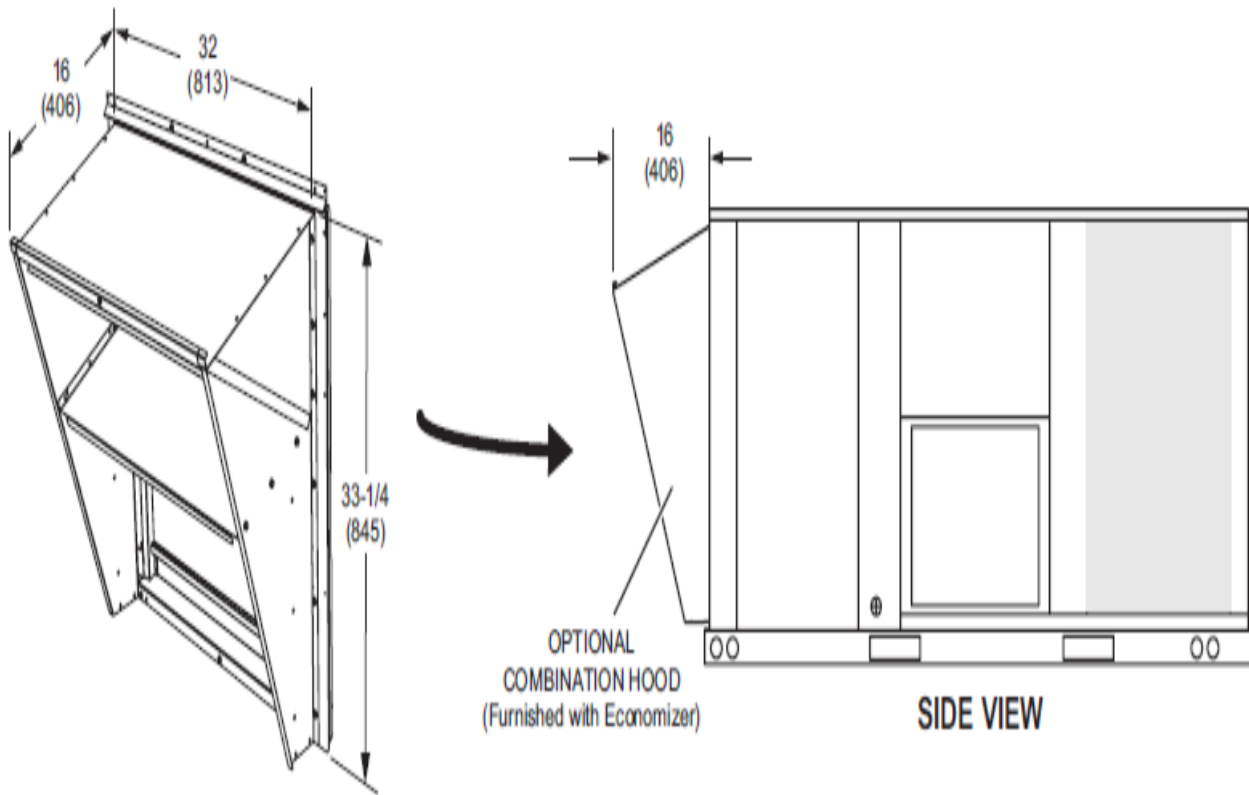
Corner Weights (lb)								Center of Gravity (in.)			
AA		BB		CC		DD		EE		FF	
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
134	184	171	218	221	282	174	238	39.00	38.00	21.00	21.00





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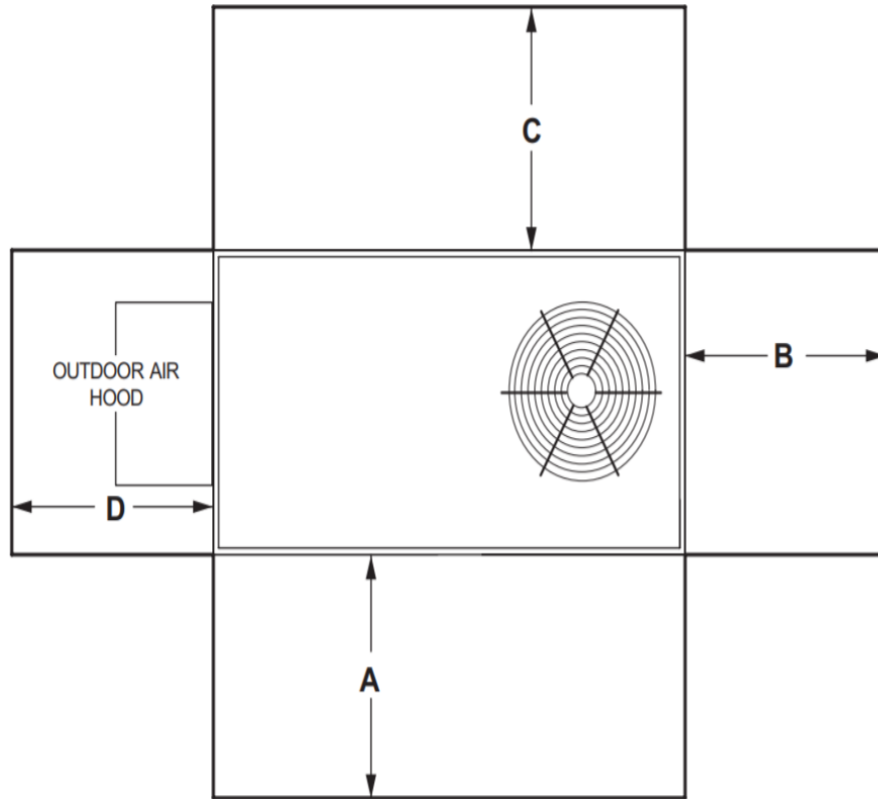
## COMBINATION OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER AND BAROMETRIC RELIEF DAMPERS (Furnished With Economizer for Downflow Applications)





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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:** Miscellaneous Items

## Miscellaneous Items

Tag	Catalog Number	Qty	Description
TEMP SENSOR			
	94L60	1	C05NZN07AE1- SENSOR, NONADJST TEMP
EOC			
	EOC	1	EOC & Guided Setup