



Project Submittal

Project Name: Albuquerque CDJ #3
Project Number: 453271
Project Altitude: 500
Project Location:
Albuquerque, New Mexico US

Date: 6/7/2023
Quote: 346395
Roof Top Units: 6
Split Systems: 0

Customer: Metro AC Co

Table of Contents

Tag	Qty	Model	Description
<u>RTU-B</u>	1	KGC180S4M	KGC180S4M 260k 3hp LLEnth ENV
<u>7.5 ton cooling</u>	2	KCC092S4M	KCC092S4M 2hp LLEnth ENV
<u>RTU-A (20 ton)</u>	3	KGC240S4M	KGC240S4M 260k 7.5hp LLEnth ENV

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

AutoCAD® Templates - [Click here](#)



Project Submittal

Tag: RTU-B **RTU-1**
 Model: **KGC180S4M** - KGC180S4M 260k **3hp** LLenh ENV

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	14 10.8	30 / 35	157.8 / 101.8	149.6 / 93.6	6,000	0.75 / 0.85	80.0 / 67.0	60.4 / 57.9

COOLING

Cooling Performance		Temperatures (DB/WB °F)	
Gross Cooling (Ttl/Sens)	157.8 / 101.8 MBH	Ambient	96.0 / 60.0
Net Cooling (Ttl/Sens)	149.6 / 93.6 MBH	Entering	80.0 / 67.0
Coil Moisture Removal	52.82 lb/hr	Leaving - (Coil)	60.4 / 57.9
System Moisture Removal	52.82 lb/hr	Leaving - (Unit)	62.0 / 58.5

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	182.0 / 176.0 MBH	Cooling Stages	2	Type	R-410A	Qty	1
ARI Power	16,300 W	Compressor Qty	3	Charge	17 LBS. 6 OZ.	Size	1 in.
		Compressor RLA	18.9 amp			Pipe Thread	npt

HEATING

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	210.0 / 136.9 MBH	Leaving	32.4	Heat Stages	2
Input (High/Low)	260.0 / 169.0 MBH			Thermal Efficiency	81.0%
Heat Rise	32.4 °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	0.85
Outdoor	600	Required Power	2.71 hp	Ext Supply	0.75
		Drive Type	MSAV Belt Drive		
		RPM Range	710 - 965 rpm		
		Required RPM	801 rpm		

AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.03		0.07					

ELECTRICAL

Voltage	460V 3Ph / 60Hz	Compressor RLA	18.9 amp
MCA	30 amp	Cooling FLA Total	27.6 amp
MOCP	35 amp	Condenser FLA	3.9 amp
Condenser Power	1100 W	Supply Fan FLA	4.8 amp
Oper Range-Nom Volt	+/- 10%		

ADDITIONAL DATA

Cabinet	107.75 in. x 91.12 in. x 54.25 in.	Total Weight	2,233 lb
Downflow Supply	20.0 in. x 28.0 in.	Base Unit Net Weight	1,855 lb
Downflow Return	15.0 in. x 60.5 in.	OAS/Econ Weight	86 lb
Filters	(6) 24.0 in. x 24.0 in. x 2.0 in.	Curb Weight	262 lb
Sound Rating	86 dBA		



Project Submittal

Tag: RTU-B

Factory Installed Options

High Performance Economizer Upgrade Factory Installed
Single Enthalpy Economizer

Belt Drive
Unit Orientation Downflow
Supply Fan: Multi-Stage Air Volume Belt
440V/460V/480V 3Phase

175 Amp Terminal Block Factory Installed

Supply Motor - 3.0 Hp Std- w/ MSAV

Supply Drive Kit 2 (710-965 RPM)

Barometric Relief Damper (Fac)

260K A.S. (Dual Stage)

Non-Hinged Doors Factory Installed

Environ Condenser Coil System Factory Installed

Phase Monitor Factory Installed (Standard)

Field Installed Accessories

Catalog Number	Qty	Description
43W26	1	14" Downflow Adj Pitch Curb Field Installed
23U69	1	Combination Coil/Hail Guards Field Installed
54W91	1	80Amp Disconnect Field Installed
74M70	1	15A GFCI Field Installed Field Wired
EE131	1	1LCWty, GEPKG31ST~1YR LABOR<=15T

Product Features

Cabinet

Durable Outdoor Enamel Paint Finish
Totally Enclosed Outdoor Fan Motor
PVC Coated Fan Guard
Isolated Compressor Compartment

Cooling System

Scroll Compressor
High Capacity Driers
Crankcase Heater
System can operate from 30°F to 125°F without any additional controls
Pre-charged Refrigeration System
Internal Pressure Relief Valve
Thermostat Control – 2 Stages of Cooling
Building Automation Integrated Control - Up to 3 Stages of Cooling

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

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



Project Submittal

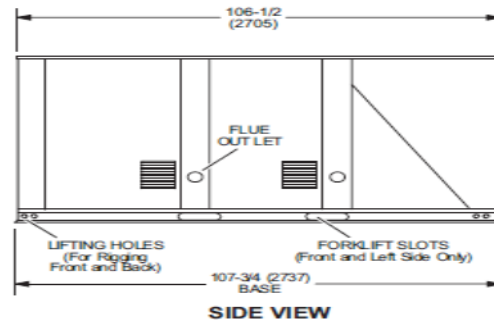
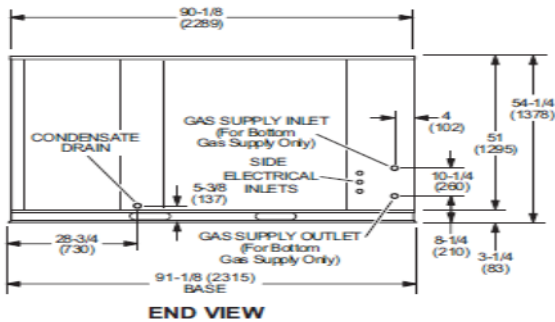
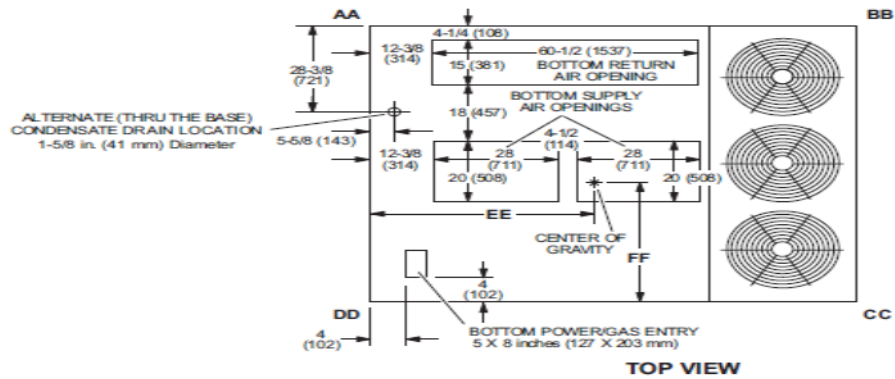
Corner Weights (lb)								Center of Gravity (in.)			
AA		BB		CC		DD		EE		FF	
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
426	541	378	452	508	551	572	659	50.67	48.50	38.88	41.00

DIMENSIONS - UNIT KGC180 | KGC210

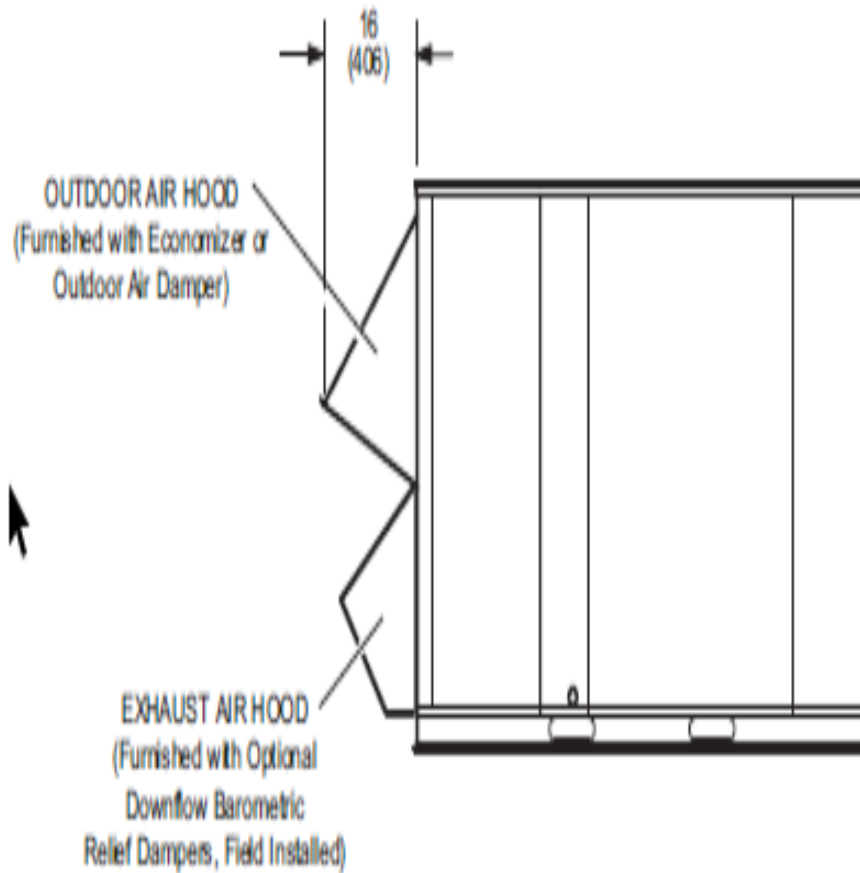
Model No.	AA		BB		CC		DD		EE		FF	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm
KGC180S Base Unit (Environ™ Coil)	423	192	365	166	495	225	574	260	50	1270	38 3/4	984
KGC180S Max. Unit (Environ™ Coil)	542	246	441	200	536	243	657	298	48 1/2	1232	41	1041
KGC180S Base Unit (Fin/Tube Coil)	426	193	395	179	525	239	577	261	49	1245	39 3/4	1010
KGC180S Max. Unit (Fin/Tube Coil)	544	247	471	213	566	256	659	299	48 1/4	1226	42 3/4	1086
KGC210S Base Unit (Environ™ Coil)	462	210	387	176	509	231	608	276	49 1/4	1251	39 1/4	997
KGC210S Max. Unit (Environ™ Coil)	587	266	465	211	550	249	694	315	47 3/4	1213	41 3/4	1060
KGC210S Base Unit (Fin/Tube Coil)	465	211	417	189	539	245	611	277	49	1245	39 3/4	1010
KGC210S Max. Unit (Fin/Tube Coil)	589	267	495	224	580	262	696	316	48 1/4	1226	42 3/4	1086

Base Unit - The unit with NO INTERNAL OPTIONS.

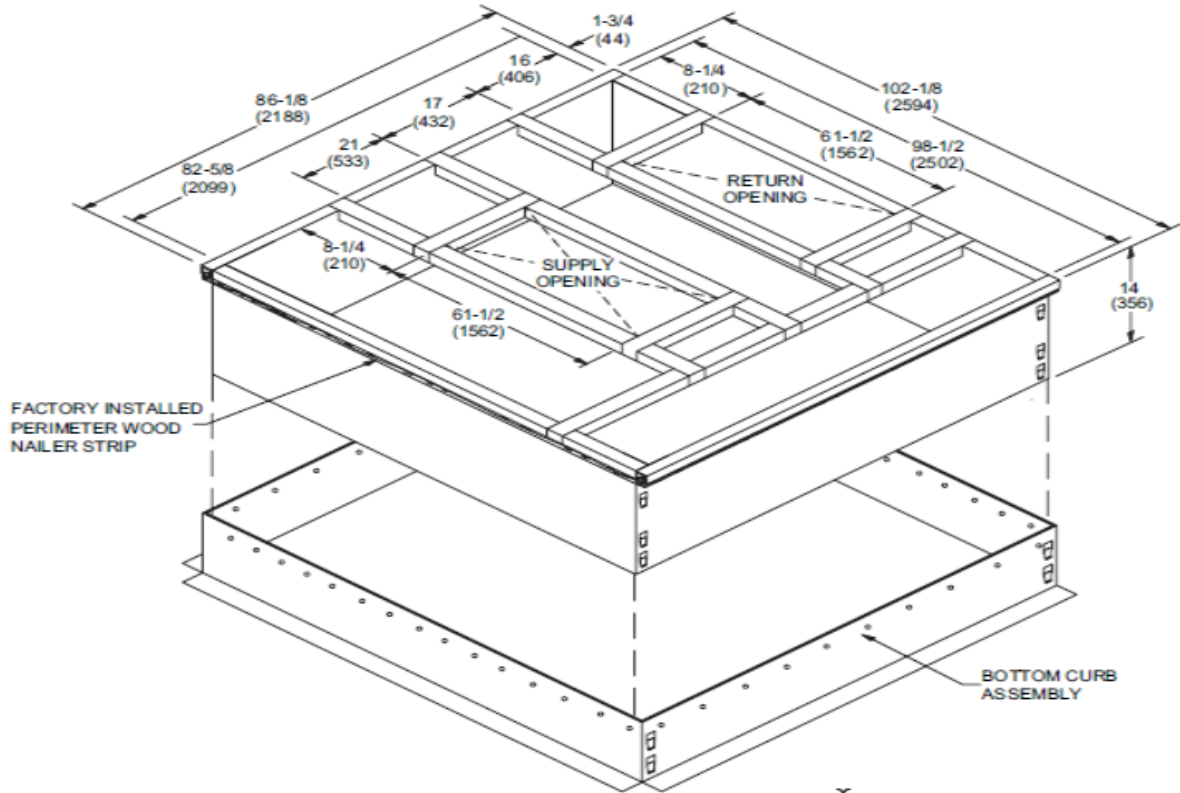
Max. Unit - The unit with ALL INTERNAL OPTIONS installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit.



OUTDOOR AIR HOOD DETAIL

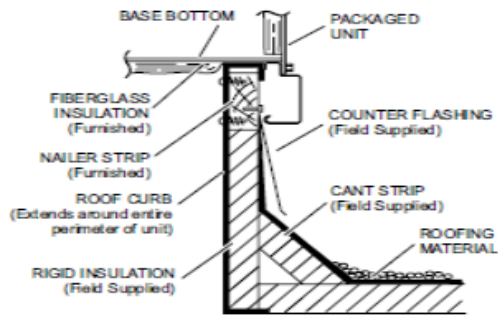


ADJUSTABLE PITCH CURB - DOUBLE DUCT OPENING

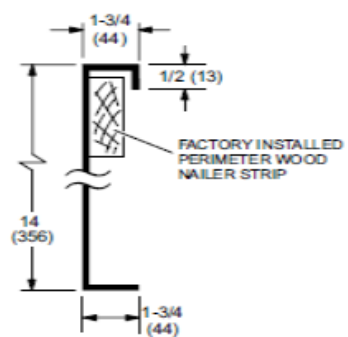


NOTE - Maximum slope pitch is 3/4 in. per 1 foot (19 mm per 305 mm) in any one direction.

TYPICAL FLASHING DETAIL FOR ROOF CURB



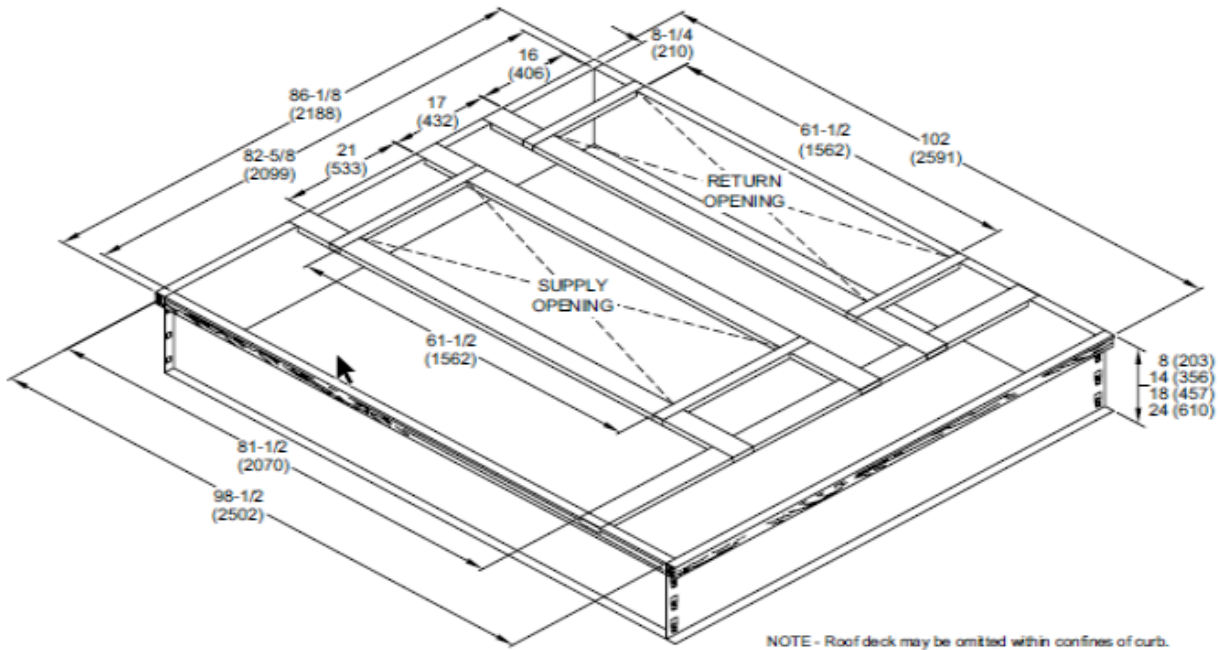
DETAIL ROOF CURB



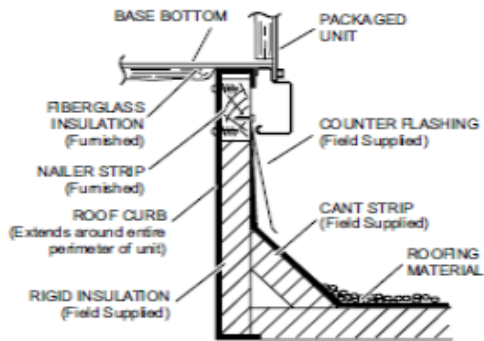


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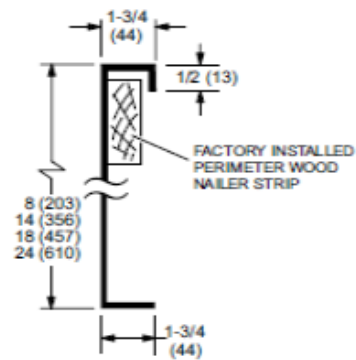
HYBRID ROOF CURBS - DOUBLE DUCT OPENING



TYPICAL FLASHING DETAIL FOR ROOF CURB

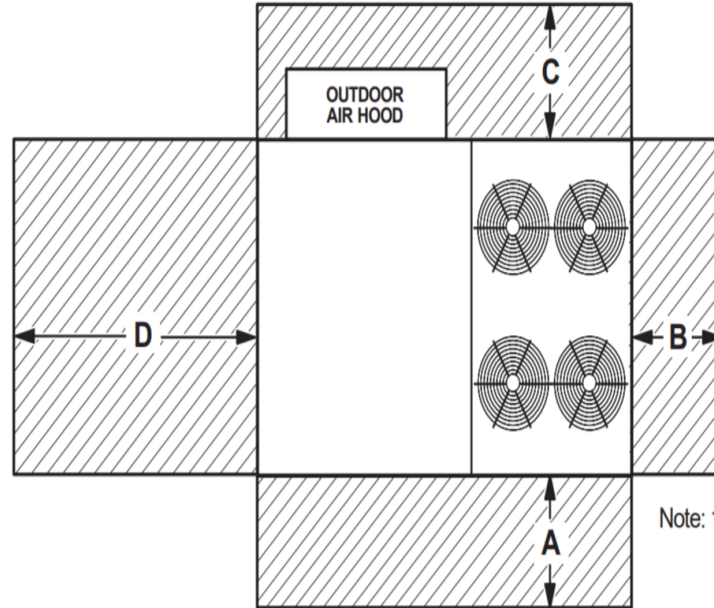


DETAIL ROOF CURB



UNIT CLEARANCES

Unit With Economizer



Note: 180H, 240S, 300S sizes shown

1 Unit Clearance	A		B		C		D		Top Clearance
	in.	mm	in.	mm	in.	mm	in.	mm	
Service Clearance	60	1524	36	914	36	914	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.



Project Submittal

Tag: 7.5 ton cooling
 Model: **KCC092S4M** - KCC092S4M 2hp LLEnth ENV

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	14.8 11.2	20 / 25	84.5 / 57.5	82.0 / 55.1	3,000	0.50 / 0.73	80.0 / 67.0	57.9 / 57.2

COOLING

Cooling Performance		Temperatures (DB/WB °F)		
Gross Cooling (Ttl/Sens)	84.5 / 57.5 MBH	Ambient	99.0	
Net Cooling (Ttl/Sens)	82.0 / 55.1 MBH	Entering	80.0	67.0
Coil Moisture Removal	25.39 lb/hr	Leaving - (Coil)	57.9	57.2
System Moisture Removal	25.39 lb/hr	Leaving - (Unit)	58.8	57.5

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	87.8 / 86.0 MBH	Cooling Stages	3	Type	R-410A	Qty	2
ARI Power	7,700 W	Compressor Qty	2	Charge	9 LBS. 14 OZ.	Size	1 in.
		Compressor RLA	26.2 amp			Pipe Thread	npt

VENTILATION

Air Flow (cfm)		Supply Fan		Air Resistance (in.WC)	
Supply	3,000	Nominal Power	2.00 hp	Total	0.73
		Required Power	0.76 hp	Ext Supply	0.50
		Drive Type	MSAV Belt Drive		
		RPM Range	590 - 890 rpm		
		Required RPM	748 rpm		

AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.10			0.13				

ELECTRICAL

Voltage	460V 3Ph / 60Hz	Compressor RLA	26.2 amp
MCA	20 amp	Cooling FLA Total	34.4 amp
MOCP	25 amp	Condenser FLA	4.8 amp
Condenser Power	740 W	Supply Fan FLA	3.4 amp
Oper Range-Nom Volt	+/- 10%		

ADDITIONAL DATA

Cabinet	101.25 in. x 60.12 in. x 46.88 in.	Total Weight	1,152 lb
Downflow Supply	20.0 in. x 28.0 in.	Base Unit Net Weight	870 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.	Curb Weight	191 lb
Sound Rating	88 dBA		



Project Submittal

Tag: 7.5 ton cooling

Factory Installed Options

- High Performance Economizer Upgrade Factory Installed
- Single Enthalpy Economizer
- Belt Drive
- Unit Orientation Downflow
- Supply Fan: Multi-Stage Air Volume Belt
- 440V/460V/480V 3Phase
- 175 Amp Terminal Block Factory Installed
- Supply Motor - 2.0 Hp Std- w/ MSAV
- Supply Drive Kit 1 (590-890 RPM)
- Barometric Relief Damper (Fac)
- Non-Hinged Doors Factory Installed
- Environ Condenser Coil System Factory Installed
- Phase Monitor Factory Installed (Standard)

Field Installed Accessories

Catalog Number	Qty	Description
54W50	2	14" Downflow Adj Pitch Curb Field Installed
22J65	2	Combination Coil/Hail Guards Field Installed
54W56	2	80Amp Disconnect Field Installed
74M70	2	15A GFCI Field Installed Field Wired
EE148	2	1LCWty, EEPKG31ST~1YR LABOR<=7.5T

Product Features

Cabinet

- Durable Outdoor Enamel Paint Finish
- Totally Enclosed Outdoor Fan Motor
- PVC Coated Fan Guard
- Isolated Compressor Compartment

Cooling System

- Scroll Compressor
- High Capacity Driers
- Crankcase Heater
- System can operate from 30°F to 125°F without any additional controls
- Pre-charged Refrigeration System
- Internal Pressure Relief Valve

Control System

- Fan and Limit Controls
- Overload Protection

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
- Model meets California Code of Regulations, Title 24 and ASHRAE 90.1-2016 Section 6.4.3.10 requirements for staged airflow
- ISO 9001 Registered Manufacturing Quality System

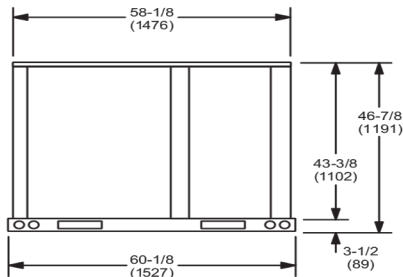
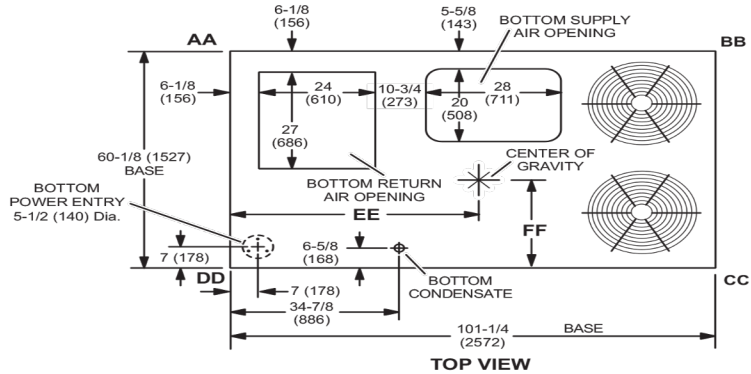
Warranty

- 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

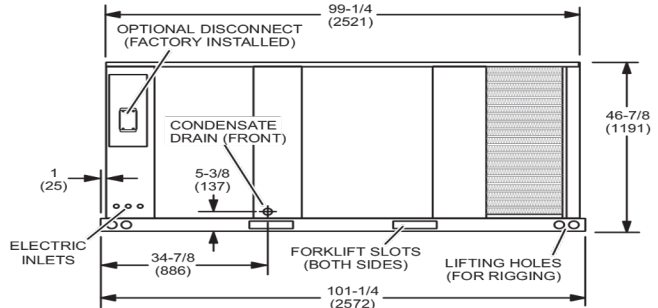


Project Submittal

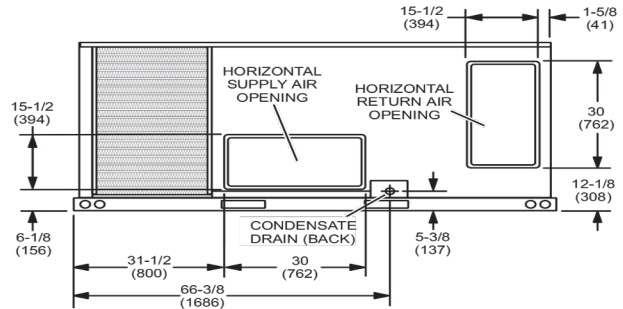
Corner Weights (lb)						Center of Gravity (in.)					
AA		BB		CC		DD		EE		FF	
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
223	309	190	259	206	275	250	341	44.50	43.50	24.50	25.50



END VIEW

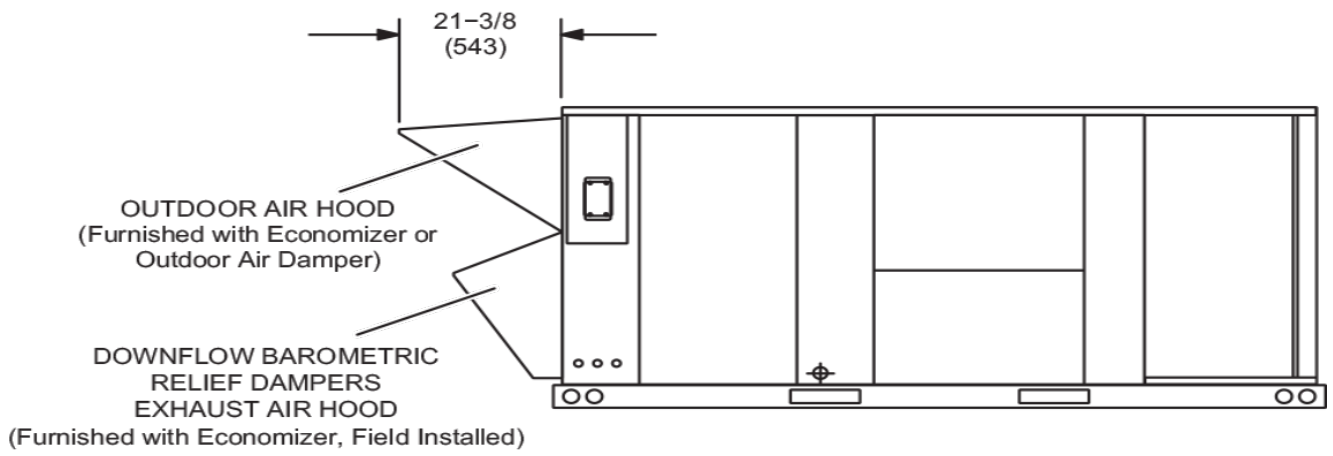


SIDE VIEW

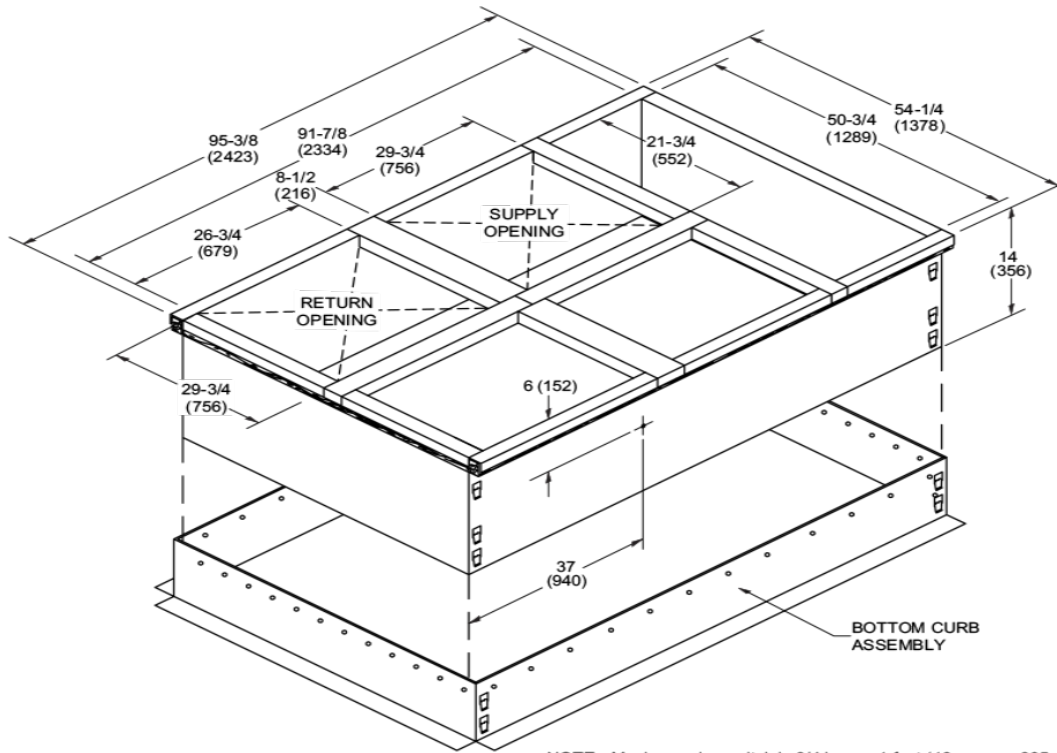


SIDE VIEW
(Horizontal Openings)

OUTDOOR AIR HOOD DETAIL

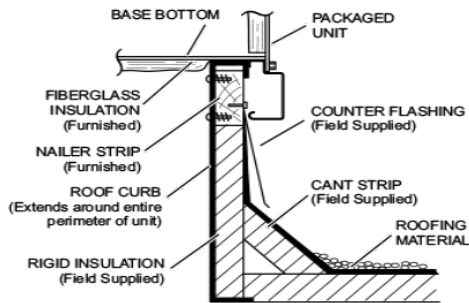


ADJUSTABLE PITCH CURBS - DOUBLE DUCT OPENING

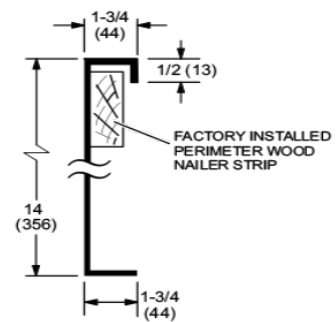


NOTE - Maximum slope pitch is 3/4 in. per 1 foot (19 mm per 305 mm) in any one direction.

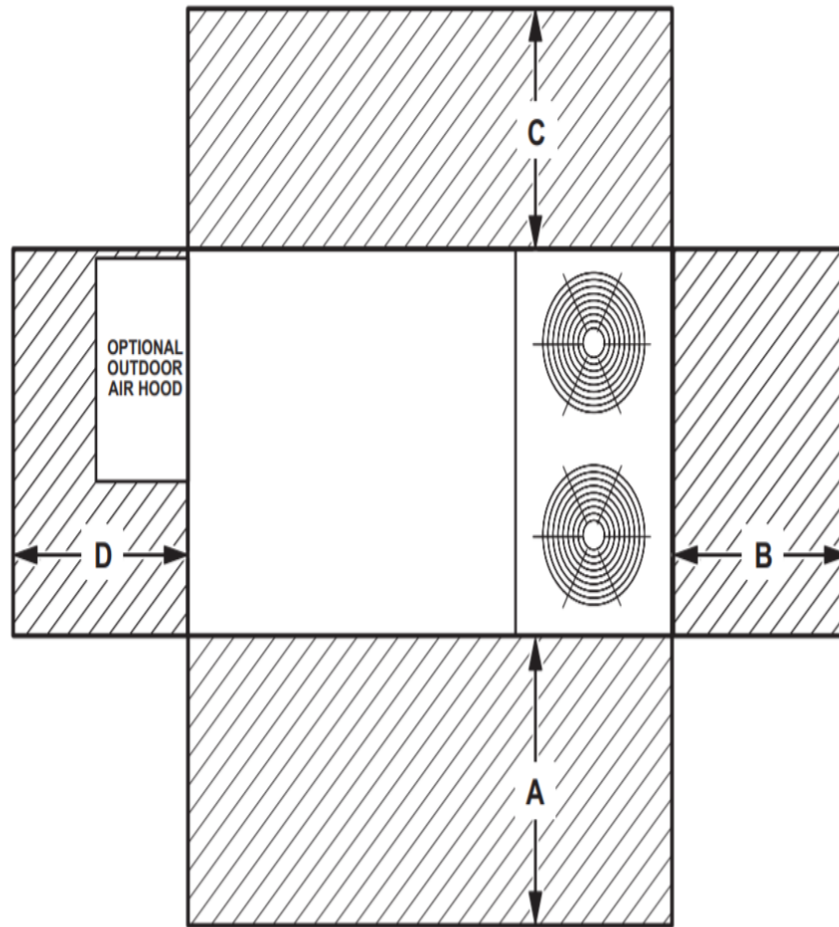
TYPICAL FLASHING DETAIL FOR ROOF CURB



DETAIL ROOF CURB



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	914	60	1524	Unobstructed
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.

Minimum Operation Clearance - Required clearance for proper unit operation.



Project Submittal

Tag: RTU-A (20 ton)
 Model: KGC240S4M - KGC240S4M 260k 7.5hp LLEnth ENV

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	14 10.8	53 / 60	228.5 / 147.4	213.7 / 132.5	8,000	0.75 / 1.08	80.0 / 67.0	58.7 / 57.1

COOLING

Cooling Performance		Temperatures (DB/WB °F)	
Gross Cooling (Ttl/Sens)	228.5 / 147.4 MBH	Ambient	95.0
Net Cooling (Ttl/Sens)	213.7 / 132.5 MBH	Entering	80.0
Coil Moisture Removal	76.46 lb/hr	Leaving - (Coil)	58.7
System Moisture Removal	76.46 lb/hr	Leaving - (Unit)	60.9
			57.8

ARI Performance		Compressors		Refrigerant		Condensate Drain	
ARI Cooling	236.0 / 230.0 MBH	Cooling Stages	2	Type	R-410A	Qty	1
ARI Power	21,100 W	Compressor Qty	3	Charge	20 LBS. 11 OZ.	Size	1 in.
		Compressor RLA	33.4 amp			Pipe Thread	npt

HEATING

Heating Performance		Temperatures (DB/WB °F)		Specifications	
Output (High/Low)	210.0 / 136.9 MBH	Leaving	24.3	Heat Stages	2
Input (High/Low)	260.0 / 169.0 MBH			Thermal Efficiency	81.0%
Heat Rise	24.3 °F			Gas Line Size	1 in.
				Gas Pressure	7 in.WC

VENTILATION

Air Flow (cfm)		Supply Fan		Air Resistance (in.WC)	
Supply	8,000	Nominal Power	7.50 hp	Total	1.08
		Required Power	5.17 hp	Ext Supply	0.75
		Drive Type	MSAV Belt Drive		
		RPM Range	850 - 1,045 rpm		
		Required RPM	952 rpm		

AIR RESISTANCE - OPTIONS/ACCESSORIES (in.WC)

Wet Coil	Humiditrol	Heat	Economizer	Filters	Diffuser	Exhaust	ERW
0.13		0.11	0.09				

ELECTRICAL

Voltage	460V 3Ph / 60Hz	Compressor RLA	33.4 amp
MCA	53 amp	Cooling FLA Total	49.6 amp
MOCP	60 amp	Condenser FLA	5.2 amp
Condenser Power	1665 W	Supply Fan FLA	11.0 amp
Oper Range-Nom Volt	+/- 10%		

ADDITIONAL DATA

Cabinet	132.62 in. x 91.12 in. x 54.25 in.	Total Weight	2,558 lb
Downflow Supply	20.0 in. x 28.0 in.	Base Unit Net Weight	2,180 lb
Downflow Return	15.0 in. x 60.5 in.	OAS/Econ Weight	86 lb
Filters	(6) 24.0 in. x 24.0 in. x 2.0 in.	Curb Weight	262 lb
Sound Rating	93 dBA		



Project Submittal

Tag: RTU-A (20 ton)

Factory Installed Options

- High Performance Economizer Upgrade Factory Installed
- Single Enthalpy Economizer
- Belt Drive
- Unit Orientation Downflow
- Supply Fan: Multi-Stage Air Volume Belt
- 440V/460V/480V 3Phase
- 175 Amp Terminal Block Factory Installed
- Supply Motor - 7.5 Hp Std- w/ MSAV
- Supply Drive Kit 6 (850-1045 RPM)
- Barometric Relief Damper (Fac)
- 260K A.S. (Dual Stage)
- Non-Hinged Doors Factory Installed
- Environ Condenser Coil System Factory Installed
- Phase Monitor Factory Installed (Standard)

Field Installed Accessories

Catalog Number	Qty	Description
43W26	3	14" Downflow Adj Pitch Curb Field Installed
23U71	3	Combination Coil/Hail Guards Field Installed
54W91	3	80Amp Disconnect Field Installed
74M70	3	15A GFCI Field Installed Field Wired
EE132	3	1LCWty, GEPKG31ST~1YR LABOR<=20T

Product Features

Cabinet

- Durable Outdoor Enamel Paint Finish
- Totally Enclosed Outdoor Fan Motor
- PVC Coated Fan Guard
- Isolated Compressor Compartment

Cooling System

- Scroll Compressor
- High Capacity Driers
- Crankcase Heater
- System can operate from 30°F to 125°F without any additional controls
- Pre-charged Refrigeration System
- Internal Pressure Relief Valve
- Thermostat Control – 2 Stages of Cooling
- Building Automation Integrated Control - Up to 3 Stages of Cooling

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

Compliance

- All models are ASHRAE 90.1-2019 energy efficiency compliant and meet or exceed requirements of Section 6.8
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- Limited warranty on compressor of 5 years
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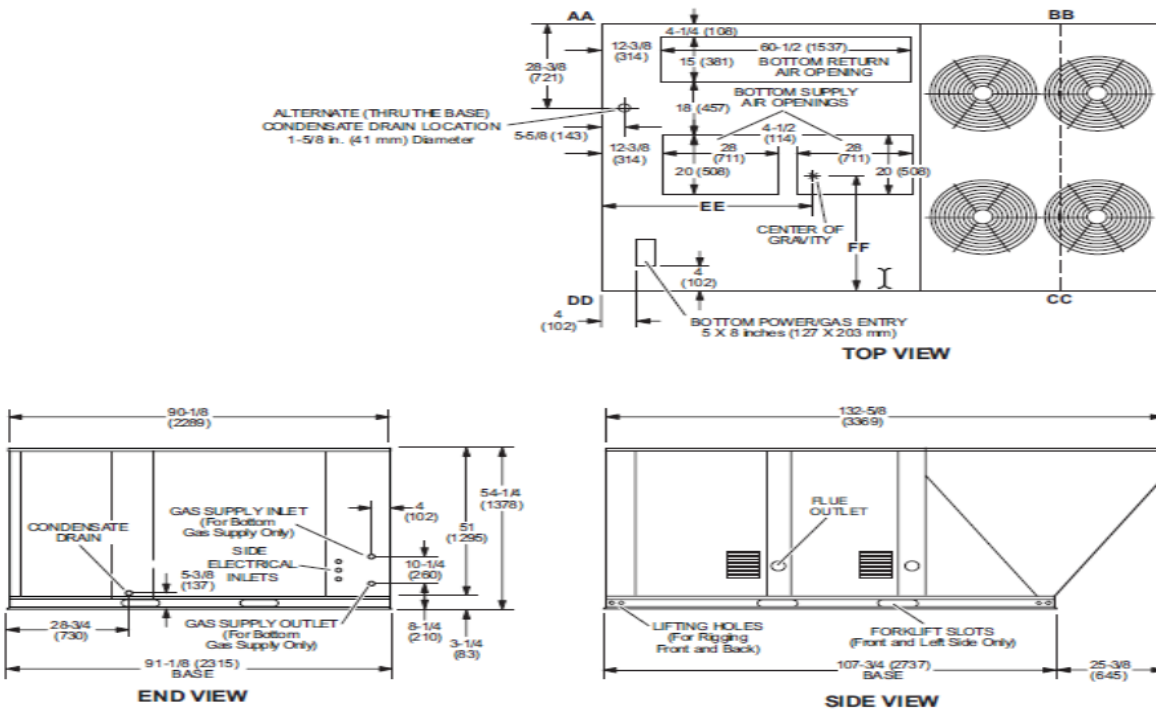


Project Submittal

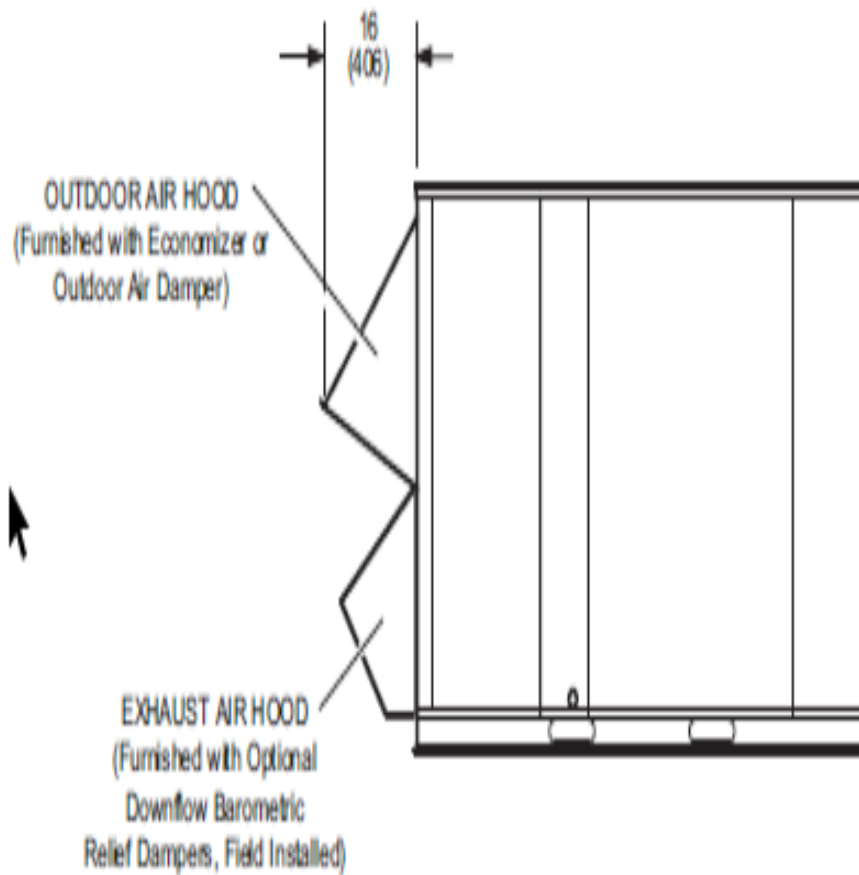
Corner Weights (lb)								Center of Gravity (in.)			
AA		BB		CC		DD		EE		FF	
Base	Max	Base	Max	Base	Max	Base	Max	Base	Max	Base	Max
466	576	437	524	635	689	677	758	52.16	51.28	37.17	39.33

DIMENSIONS - UNIT											KGC240			
CORNER WEIGHTS											CENTER OF GRAVITY			
Model No.	AA		BB		CC		DD		EE		FF			
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm		
KGC240S Base Unit (Environ™ Coil)	464	210	421	191	616	279	679	308	51-1/4	1302	37	940		
KGC240S Max. Unit (Environ™ Coil)	574	260	506	230	669	303	759	344	50-1/2	1283	39-1/4	997		
KGC240S Base Unit (Fin/Tube Coil)	464	210	474	215	669	302	679	307	53-1/4	1353	39-1/2	1003		
KGC240S Max. Unit (Fin/Tube Coil)	574	259	558	254	722	327	759	343	52	1321	42	1067		

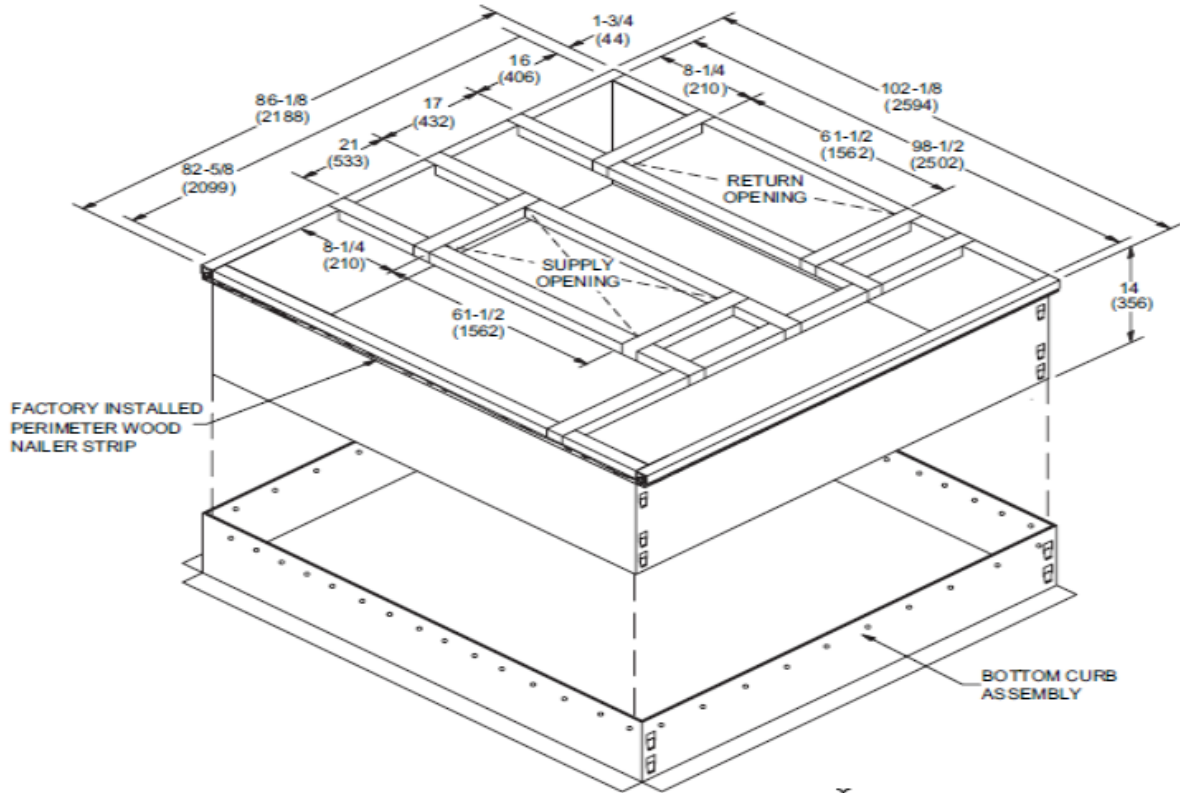
Base Unit - The unit with NO INTERNAL OPTIONS.
 Max. Unit - The unit with ALL INTERNAL OPTIONS installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit.



OUTDOOR AIR HOOD DETAIL

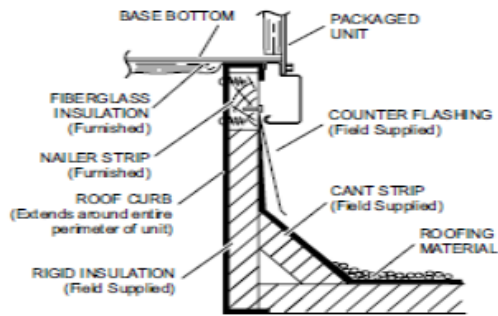


ADJUSTABLE PITCH CURB - DOUBLE DUCT OPENING

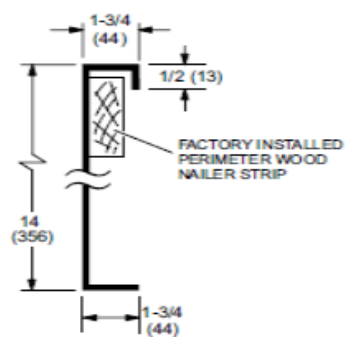


NOTE - Maximum slope pitch is 3/4 in. per 1 foot (19 mm per 305 mm) in any one direction.

TYPICAL FLASHING DETAIL FOR ROOF CURB



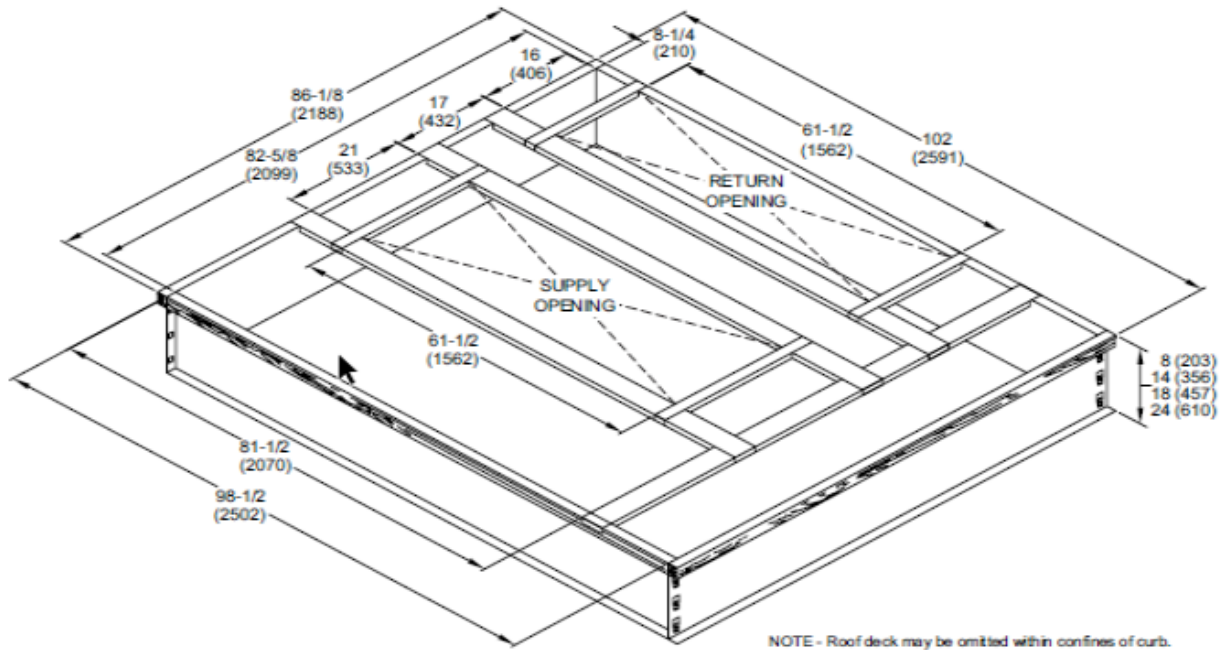
DETAIL ROOF CURB



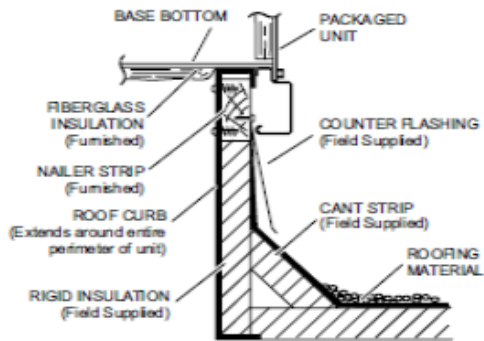


Project Submittal

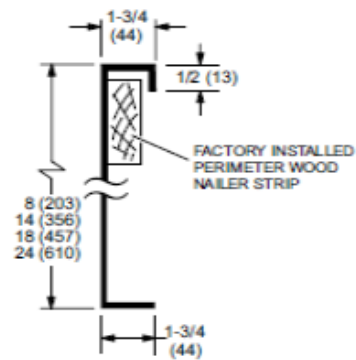
HYBRID ROOF CURBS - DOUBLE DUCT OPENING



TYPICAL FLASHING DETAIL FOR ROOF CURB

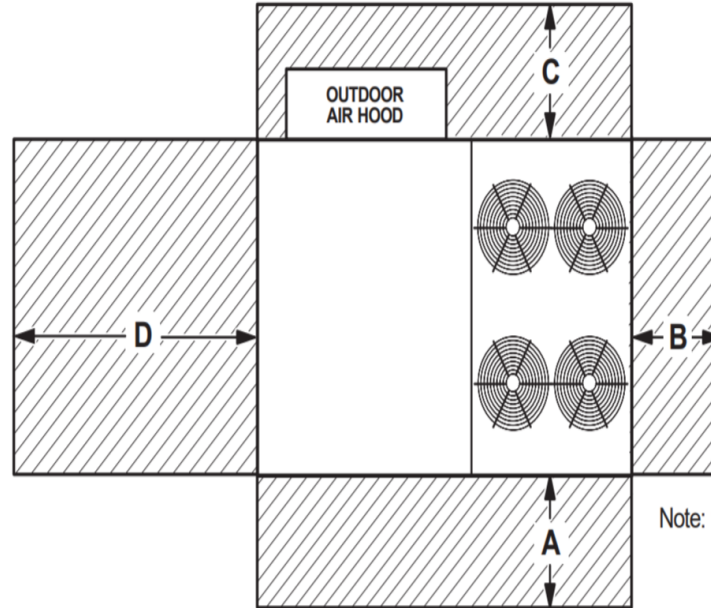


DETAIL ROOF CURB



UNIT CLEARANCES

Unit With Economizer



Note: 180H, 240S, 300S sizes shown

¹ Unit Clearance	A		B		C		D		Top Clearance
	in.	mm	in.	mm	in.	mm	in.	mm	
Service Clearance	60	1524	36	914	36	914	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.