

Installation of Roof Curbs

Option CJ_

Applies to: MAPS III & IV Models, Z Series Model, PreeVA Models, Blower Cabinet Models, Packaged Rooftop Models & JDHA, JDMA, YDHA, YDMA, YDSA Models

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GENERAL

Optional curbs are available to fit horizontal configurations of manufacturer's outdoor/ rooftop equipment.

Consult the **APPENDIX** in the specific **Installation Manual** of that product for system installation information and attaching ductwork.

Curb Description By Model

MAPS® III Models RCB, RDB, RDCB, RDDB, RECB, REDB & MAPS® IV Models RCC, RDC, RDCC, RDDC, RECC, REDC Cabinet Sizes A, B, and C - Optional curbs are for either down or horizontal supply air. All curbs are shipped in factory-assembled sections for field installation. Curb sides are constructed of 16-gauge coated steel and wooden nailers. All hardware necessary to assemble the curb is provided; installation hardware must be field supplied.



Downflow curbs, Options CJ31 and CJ34, are 14" (356mm) high. Down discharge roof curbs include dividers that allow for inserting ductwork down from the top.

The roof curbs for horizontal supply air discharge for MAPS® "A" and "B" cabinets, Options CJ50 and CJ54, are 32" high (813mm), and curbs for "C" cabinets, Options CJ49 and CJ53, are 36" (914mm) high. All of the horizontal supply curbs include integral supply and return air ducts with adjacent duct flanges.

Model Series ADF(H); MAPS®III RCB, RDB, RDCB, RDDB, RECB, REDB Cabinet Size D; RDF; PreeVA® RDH, REH, RHH, RXH; RPB, RPBL, RPDBL; ZQYRA; Blower Cabinet Model RBL and JDHA, JDMA, YDHA, YDMA & YDSA (Cabinet Sizes 1 & 2) - Optional curbs for downflow supply air are shipped in factory-assembled sections for field installation. Curbs are 16" (406mm) high and are constructed of 16-gauge coated steel and 2x6 wooden nailers. From this list of models, only curb packages for Models ZQYRA; RCB, RDB, RDCB, RDDB, RECB, REDB; and RDF include field-installed dividers creating integral ductwork. All hardware necessary to assemble the curb is provided; installation hardware must be field supplied.

Installation Requirements and Recommendations that Apply to ALL Commercial/Industrial Roof Curbs

- Before installation, verify (1) that the curb ordered is the appropriate one for the unit and (2) that the curb supplied is the correct size.
- Position the curb depending on roof structure and so that the air inlet is not facing into the prevailing wind. Depending on the weight and the roof structure, tread material may be required under the rails. Curb and equipment must be level.
- If installing more than one system, it is recommended to minimize structural span deflection to discourage sound transmission.
- Mounting hardware and flashing must be field supplied.
- Assembly and installation of the curb are the responsibility of the installer.

1.0 Roof Curbs for MAPS® III Models RCB, RDB, RDCB, RDDB, RECB, REDB and MAPS® IV Models RCC, RDC, RDCC, RDDC, RECC, REDC - Cabinet Sizes A, B, and C

Cross-Reference by Model/Size and Cabinet Size - MAPS® A, B, C

Because of the numerous models and sizes of MAPS® units, curb information is categorized by Cabinet Size A, B, or C. Use these cross-reference charts to determine the cabinet size of your system.

DX Cooling Models RCB and RCC and DX w/Reheat Models RDB and RDC

Model RDCB, RDDB, RDCC, and RDDC by Cabinet Size and Gas Heat Section Size

Model RCB	Model RCC	Cabinet Size
060		A
078		
090		
118	120	
136		
160		
186		B
200		
190		
216		
298		C
410		
200		
190		
216		
298		
410		
084		A
102		
114		
142	144	
162		
184		
196		
210		
222		
224		
236		B
257		
248		
262		
272		
288		
354		C
370		
468		
482		

Model RDCB	Model RDDB	Model RDCC	Model RDDC	Gas Heat Section Size										
				-100	-150	-200	-250	-300	-400	-500	-600	-700	-800	-1000
060				A	A	A								
078				A	A	A	B	B		B*				
090				A	A	A	B	B		B*				
118	120			A	A	A	B	B		B*				
136				A	A	A	B	B		B*				
160							B	B		B*				
186							B	B		B*				
200							B	B		B*				
190										C	C	C		C**
216										C	C	C		C**
298										C	C	C		C**
410										C	C	C		C**

Model RECB, REDB, RECC, and REDC by Electric Heat Module and Cabinet Size

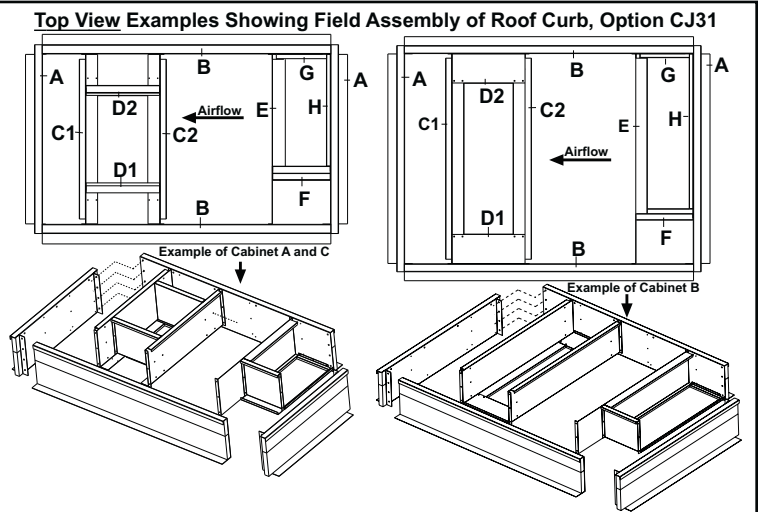
Model RECB	Model RECC	Electric Heat Section															
		-10S	-15S	-20S	-24S	-15	-20	-25	-30	-35	-39	-50	-60	-75	-88		
060		A	A	A	A	A	A	A	A	A	A						
078			A	A	A	A	B	A	A	B	A	B	B	B			
090			A	A	A	A	B	A	A	B	A	B	B	B			
118	120		A	A	A	A	B	A	A	B	A	B	B	B			
136			A	A	A	A	B	A	A	B	A	B	B	B			
160							B	B	B	B	B	B	B	B			
186							B	B	B	B	B	B	B	B			
200							B	B	B	B	B	B	B	B			
190												C	C	C			
216												C	C	C			
298												C	C	C			
410												C	C	C			

* A MAPS® B Cabinet with 500 mbh of gas heat is a Size 250 mbh heat section plus an Option JH25 curb with a 250 mbh duct furnace. (The curb with the duct furnace will sit directly on the Cabinet Size B roof curb. The packaged system will sit on top of the curb section with the furnace.)
 ** A MAPS® C Cabinet with 1000 mbh of gas heat is a Size 700 mbh heat section plus an Option JH30 curb with a 300 mbh duct furnace. (The curb with the duct furnace will sit directly on the Cabinet Size C roof curb. The packaged system will sit on top of the curb section with the furnace.)

1.1 Curb for Vertical (Down) Airflow (Option CJ31) - applies to units without energy recovery

FIGURE 1A - Roof Curb Components and Layout for MAPS® Cabinets A, B, C

- Curbs in Section 1.1 do not apply to a MAPS® unit with an optional energy recovery module. For Option CJ34 with an energy recovery module (Option ER1), go to Section 1.2, page 5.
- All curbs include corner hardware as listed below and screws for attaching duct pieces.
- Integral ducts are designed so that ductwork may be either inserted down from the top or attached from the bottom.
- Seal tops of supply air "dividers" (C & D) that mate with the blower or heat exchanger opening.
- Seal tops of return air "dividers" (E, F, G, & H).
- Seal tops of curb rails. Curb must be level.



Option CJ31 Roof Curb Corner Hardware (See FIGURE 1B.)		Hardware to Assemble and Attach Dividers to make Duct Connections and Sealant Tape for Top of Rails
For Top Two "Holes"	(8) 5/16" x 1" Lag Screws, P/N 16243; (8) 5/16" Lockwasher, P/N 1333	(64) #10 Sheetmetal Screws, P/N 11813 (1) 1/4" x 1-1/4" x 50' Foam Sealant Tape, P/N 66302
For Bottom Two "Holes"	(8) 5/16" x 3/4" Hex Head Cap Screw, P/N 16247; (8) 5/16" Lockwasher, P/N 1333; (8) 5/16-18 Hex Nut, P/N 1035	

Roof Curb P/N by Model/Size			Cabinet A			Cabinet B		Cabinet C			
Models RCB/RDB/RCC/RDC	See Model Size / Cabinet Size Cross Reference on page 2.	-	All Cabinet A	-	-	All Cabinet B	190, 216, 248, 262, 272, 288	-	298, 410, 354, 370, 468, 482	-	
Models RDCB/RDDB/RDCC/RDDC		100	150	200	250/500	300	400	500	600	700/1000	
Models RECB/REDB/RECC/REDC		-	All Cabinet A	-	-	All Cabinet B	-	-	All Cabinet C	-	
Roof Curb (Option CJ31) Package P/N		205660	205661	205662	205663	205664	208854	208855	208856	208857	
Codes - FIG 1A	Description:	Qty	Component P/N's								
A	Curb End Assembly	2	204486			204487		208799			
B	Curb Side Assembly	2	204485					208798			
C1	Supply Air Duct End	1	204431			204432		207961	207960	207959	207958
C2	Supply Air Duct End	1	204431			204432		207965	207964	207963	207962
D1	Supply Air Duct Side	1	204433	204434	204436	204435	204437	207967			
D2	Supply Air Duct Side	1	204433	204434	204436	204435	204437	207967			207971
E*	Return Duct End	1	204438			204439		207966			
F*	Return Duct Side	1	204440			204441		207974			
G*	Return Duct Side Angle	1	204444					207973			
H*	Return Duct Rear Angle	1	204442			204443		207972			

*If the system does not include optional return air, these pieces may be installed but are not required and will serve no function.

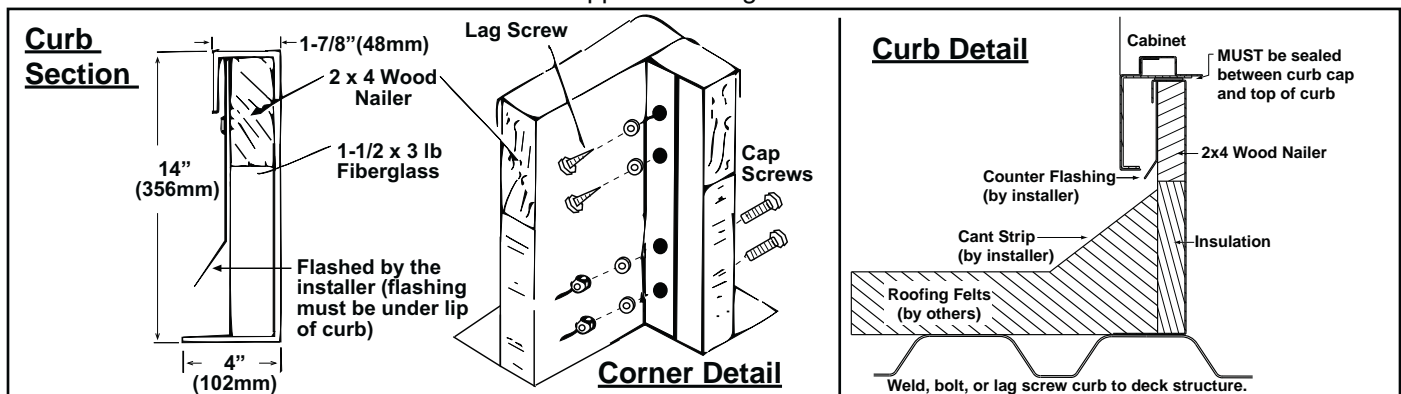
CAUTION: Before installation, recheck to be sure that the correct curb has been ordered. Be sure that the curb selected matches the unit ordered. Verify the dimensions of the curb received with the appropriate dimension table.

Installation Instructions for Down Discharge Roof Curb, Option CJ31, for MAPS® Cabinet Sizes A, B, and C

NOTE: For A, B, or C with energy recovery Option ER1, see page 5.

1. Position the roof curb ends (**Code A**) and sides (**Code B**) as shown in the drawing in **FIGURE 1A**. Fasten with bolts and lag screws as illustrated in the corner detail (**FIGURE 1B**).
2. Install bottom opening ductwork. Use the sheetmetal screws to attach the dividers (**Codes C1, C2, D1, D2, E, & F** in **FIGURE 1A**). Attach the return air duct angles (**Codes G & H**) to the attached end and side and to the roof curb. **NOTE:** If the system does not have a return air opening, Codes F, G, & H may be installed in the curb but are not required.
3. Check the roof curb for squareness. The curb must be adjusted so that the diagonal measurements are equal within a tolerance of $\pm 1/8"$ ($\pm 3\text{mm}$).
4. Level the roof curb. To ensure a good weatherproof seal between the unit curb cap and the roof curb, the roof curb must be leveled in both directions with no twist end to end. Shim as required and secure curb to the roof deck before installing flashing (See Curb Detail in **FIGURE 1B**).
5. Install field-supplied flashing.

FIGURE 1B - Option CJ31 Downflow Roof Curb Cross Section and Corner Detail



6. Before placing the MAPS® unit or optional duct furnace (Option JH25 or JH30) on the curb:

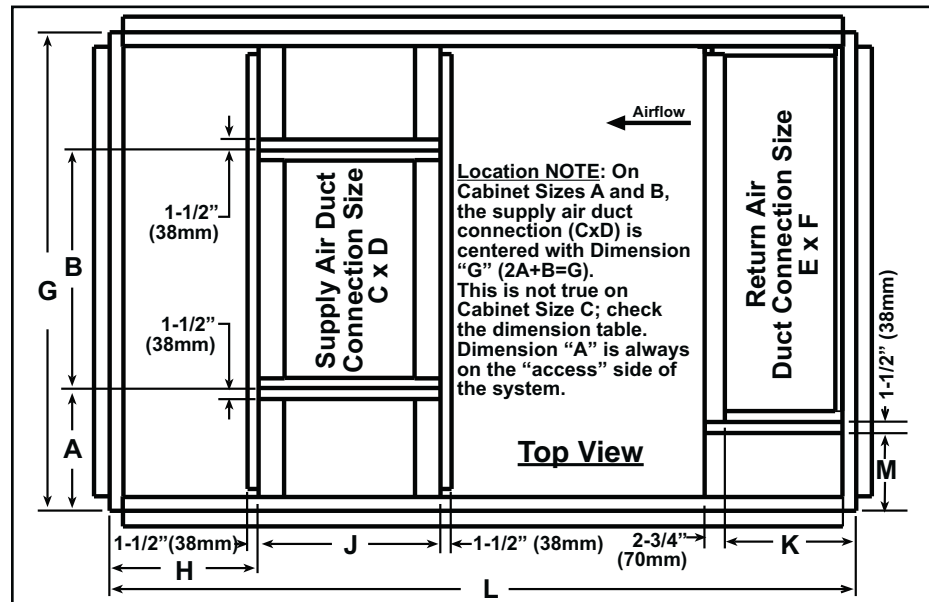
- If ductwork is being installed from the top, slide the ductwork down into the discharge and return air openings. Ductwork should be sized slightly smaller with a minimum 3/4" duct flange that will rest on and be attached to all sides of the duct connection. See the system installation manual for ductwork requirements.
- Apply 1/4" x 1-1/4" foam sealant tape to both the top surface of the curb rails and the top surface of the perimeter of the integral dividers, being sure to make good butt joints at all corners. The sealant tape must be applied to prevent water leakage into the curb area due to blown rain and capillary action.
- If installing an optional duct furnace curb section (Option JH), place it on the roof curb before the unit. Follow the instructions in the unit installation manual (Form I-MAPSIII&IV).
- When it is time to lift the MAPS® unit or optional duct furnace onto the prepared curb (See Rigging and Lifting in the unit installation manual, Form I-MAPSIII&IV), be sure that all of the above preparations have been made. **IMPORTANT:** Verify that the unit will be placed in the correct airflow orientation to mate properly with the discharge and return air openings.

**1.0 Roof Curbs for
MAPS® Cabinets
A, B, C (cont'd)**

**Dimensions - Downflow Roof Curb Option CJ31 for MAPS® III & IV
Cabinet Sizes A, B, and C**

**1.1 Curb for Vertical
(Down) Airflow
(Option CJ31)
(cont'd)**

**FIGURE 1C - Roof Curb
and Duct Opening
Dimensions**



NOTE: See page 2 for cross-reference by Model Size and Cabinet Size.

NOTES: Area enclosed by roof curb must comply with clearance to combustible materials. If the roof is constructed of combustible materials, area within the roof curb must be ventilated, left open, or covered with non-combustible material which has an "R" value of at least 5. If area within curb is left open, higher radiated sound levels may result.

If area inside curb is open, roof opening dimensions MUST be no greater than: Cabinet A - 34-13/16"x 69" (884x1753mm); Cabinet B - 49-13/16"x 69" (1265x1753mm); Cabinet C - 61-5/16"x 97-7/8" (1557x2486mm).

When cutting only duct openings, cut opening 1" (25mm) larger than duct size to allow clearance for installation.

Cabinet Size	RCB or RCC Model Size	RDB or RDC Model Size	Illustration Codes - FIGURE 1C												
			A	B	C	D	E	F	G	H	J	K	L	M	
Curb Dimensions for Cooling Only Model RCB, RCC, RDB, RDC by Cabinet Size, Model Size - inches (±1/8)															
A	060, 078, 090, 118, 120, 136	084, 102, 114, 142, 144, 162	6-1/8	26-1/2	24	12	24	12	38-5/8	13-1/4	17-1/2	12-7/8	72-3/4	12-1/4	
B	160, 186, 200	184, 196, 210, 222, 224, 236, 257	N/A	N/A	36	12	36	12	53-5/8	13-1/4	17-1/2	12-7/8	72-3/4	12-1/4	
C	190, 216	248, 262, 272, 288	19-3/8	32-3/8	30	18	45	15	65-1/8	20-1/4	24-3/4	17-7/8	101-5/8	13-1/4	
	298, 410	354, 370, 468, 482	10-3/4	49-1/2	47	18	45	15	65-1/8	20-1/4	24-3/4	17-7/8	101-5/8	13-1/4	
Curb Dimensions for Cooling Only Model RCB, RCC, RDB, RDC by Cabinet Size and Model Size - mm (±3)															
A	060, 078, 090, 118, 120, 136	084, 102, 114, 142, 144, 162	156	673	610	305	610	305	981	337	445	327	1848	311	
B	160, 186, 200	184, 196, 210, 222, 224, 236, 257	N/A	N/A	914	305	914	305	1362	337	445	327	1848	311	
C	190, 216	248, 262, 272, 288	492	822	762	457	1143	381	1654	514	629	454	2581	337	
	298, 410	354, 370, 468, 482	273	1257	1194	457	1143	381	1654	514	629	454	2581	337	

Cabinet Size	RDCB or RDCC Model Size	RDDB or RDCC Model Size	Gas Heat Size *	Illustration Codes - FIGURE 1C												
				A	B	C	D	E	F	G	H	J	K	L	M	
Curb Dimensions for Cooling/Gas Heat Makeup Air Model RDCB, RDCC, RDDB, RDCC by Cabinet Size & Model Size - inches (±1/8)																
A	060, 078, 090, 118, 120, 136	084, 102, 114, 142, 144	100	9-7/8	19	18	12	24	12	38-5/8	13-1/4	17-1/2	12-7/8	72-3/4	12-1/4	
		084, 102, 114, 142, 144, 162	150	6-1/8	26-1/2	24	12	24	12	38-5/8	13-1/4	17-1/2	12-7/8	72-3/4	12-1/4	
			200	N/A	N/A	24	12	24	12	38-5/8	13-1/4	17-1/2	12-7/8	72-3/4	12-1/4	
B	078, 090, 118, 136, 160, 186, 200	102, 114, 142, 162, 184, 196, 210, 222, 224, 236, 257	250	6-1/8	41-1/2	36	12	36	12	53-5/8	13-1/4	17-1/2	12-7/8	72-3/4	12-1/4	
		300	N/A	N/A	36	12	36	12	53-5/8	13-1/4	17-1/2	12-7/8	72-3/4	12-1/4		
C	190, 216, 298, 410	248, 262, 272, 284, 354, 370, 468, 482	400	19-3/8	32-3/8	30	18	45	15	65-1/8	20-1/4	24-3/4	17-7/8	101-5/8	13-1/4	
			500	13-1/4	44-1/2	42	18	45	15	65-1/8	20-1/4	24-3/4	17-7/8	101-5/8	13-1/4	
			600	10-3/4	49-1/2	47	18	45	15	65-1/8	20-1/4	24-3/4	17-7/8	101-5/8	13-1/4	
			700	8-1/4	55	52	18	45	15	65-1/8	20-1/4	24-3/4	17-7/8	101-5/8	13-1/4	
Curb Dimensions for Cooling/Gas Heat Makeup Air Model RDCB, RDCC, RDDB, RDCC by Cabinet Size and Model Size - mm (±3)																
A	060, 078, 090, 118, 120, 136	084, 102, 114, 142, 144	100	251	483	457	305	610	305	981	337	445	327	1848	311	
		084, 102, 114, 142, 144, 162	150	156	673	610	305	610	305	981	337	445	327	1848	311	
			200	N/A	N/A	610	305	610	305	981	337	445	327	1848	311	
B	078, 090, 118, 136, 160, 186, 200	102, 114, 142, 162, 184, 196, 210, 222, 224, 236, 257	250	156	1054	914	305	914	305	1362	337	445	327	1848	311	
		300	N/A	N/A	914	305	914	305	1362	337	445	327	1848	311		
C	190, 216, 298, 410	248, 262, 272, 284, 354, 370, 468, 482	400	492	822	762	457	1143	381	1654	514	629	454	2581	337	
			500	337	1130	1067	457	1143	381	1654	514	629	454	2581	337	
			600	273	1257	1194	457	1143	381	1654	514	629	454	2581	337	
			700	210	1397	1321	457	1143	381	1654	514	629	454	2581	337	

Cabinet Size*	RECB, RECC Model Size *	REDB, REDC Model Size *	* Electric Heat Size	Illustration Codes - FIGURE 1C											
				A	B	C	D	E	F	G	H	J	K	L	M
Curb Dimensions for Cooling/Electric Heat Makeup Air Model RECB, RECC, REDB, REDC by Cabinet Size and Model Size - inches (±1/8)															
A	060, 078, 090, 118, 120, 136	084, 102, 114, 142, 144, 162	All available	N/A	N/A	24	12	24	12	38-5/8	13-1/4	17-1/2	12-7/8	72-3/4	12-1/4
B	078, 090, 118, 120, 136, 160, 186, 200	084, 102, 114, 142, 144, 162, 184, 196, 210, 222, 224, 236, 257		N/A	N/A	36	12	36	12	53-5/8	13-1/4	17-1/2	12-7/8	72-3/4	12-1/4
C	190, 216, 298, 410	248, 262, 272, 288, 354, 370, 468, 482		10-3/4	49-1/2	47	18	45	15	65-1/8	20-1/4	24-3/4	17-7/8	101-5/8	13-1/4
Curb Dimensions for Cooling/Electric Heat Makeup Air Model RECB, RECC, REDB, REDC by Cabinet Size and Model Size - mm (±3)															
A	060, 078, 090, 118, 120, 136	084, 102, 114, 142, 144, 162	All available	N/A	N/A	610	305	610	305	981	337	445	327	1848	311
B	078, 090, 118, 120, 136, 160, 186, 200	084, 102, 114, 142, 144, 162, 184, 196, 210, 222, 224, 236, 257		N/A	N/A	914	305	914	305	1362	337	445	327	1848	311
C	190, 216, 298, 410	248, 262, 272, 288, 354, 370, 468, 482		273	1257	1194	457	1143	381	1654	514	629	454	2581	337

**Weights by Cabinet Size*
- Downflow Roof Curb
Option CJ31**

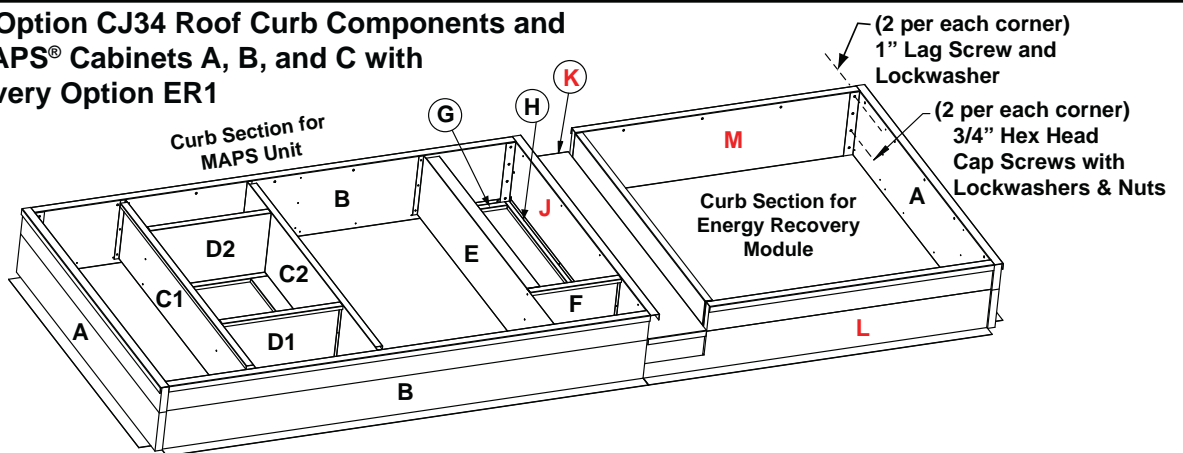
Option CJ31 Roof Curb Weight	Cabinet Size *	A	B	C	
		lbs	93	105	235
		kg	42	48	107

* See chart on page 2 for cross-reference by Model Size or Model and Heat Size to Cabinet Size.

1.2 Roof Curb for MAPS® III&IV A, B, and C Cabinet with Vertical (Down) Airflow WITH an Optional Energy Recovery Module, Option ER1A, ER1B, ER1C (Roof Curb Option CJ34)

Roof Curb P/N by Model/Size	See Model Size / Cabinet Size Cross Reference on page 2.	Cabinet A			Cabinet B		Cabinet C				
RCB/RCC/RDB/RDC w/Option ER1		-	All Cabinet A	-	-	All Cabinet B	190, 216, 248, 262, 272, 288	-	298, 410, 354, 370, 468, 482	-	
RDCB/RDCC/RDDB/RDDC w/Opt ER1		100	150	200	250	300	400	500	600	700	
RECB/REDB/RECC/REDC w/Opt ER1		-	All Cabinet A	-	-	All Cabinet B	-	-	All Cabinet C	-	
Roof Curb (Option CJ34) Package P/N		262478	262479	262480	262481	262482	262483	262484	262485	262486	
Code (FIGURE 2A)	Component Description:	Qty	Component P/N's								
A	Curb Ends (unit & ER end)	2	204486			204487		208799			
B	Curb Sides (under unit)	2	204485								
C1	Supply Air Duct End	1	204431			204432		207961	207960	207959	207958
C2	Supply Air Duct End	1	204431			204432		207965	207964	207963	207962
D1	Supply Air Duct Side	1	204433	204434	204436	204435	204437		207967		
D2	Supply Air Duct Side	1	204433	204434	204436	204435	204437		207967	207971	
E	Return Duct End	1	204438			204439		207966			
F	Return Duct Side	1	204440			204441		207974			
G	Return Duct Side Angle	1	204444					207973			
H	Return Duct Rear Angle	1	204442			204443		207972			
J	Curb End (unit end in center)	1	261995			261996		260855			
K	Tunnel (between unit & ER)	1	261993			261994		260856			
L	Right Curb Side (under ER)	1	262411					262418			
M	Left Curb Side (under ER)	1	262412					262419			

FIGURE 2A - Option CJ34 Roof Curb Components and Layout for MAPS® Cabinets A, B, and C with Energy Recovery Option ER1



NOTES:

- Curbs in Section 1.2 apply to a MAPS® unit with an optional energy recovery module. For downflow curb without an energy recovery module (Option CJ31), go to Section 1.1, page 2.
- All curbs include corner hardware as listed on page 6 and screws for attaching duct pieces.
- Integral ducts are designed so that ductwork may be either inserted down from the top or attached from the bottom.
- Apply sealant tape to tops of supply air "dividers" (C & D) that mate with the blower or heat exchanger opening.
- Apply sealant tape to tops of return air "dividers" (E, F, G, & H).
- Apply sealant tape to tops of all curb rails.
- Curb MUST be level.

1.0 Roof Curbs for MAPS® Cabinets A, B, C (cont'd)

1.2 Curb for Vertical (Down) Airflow WITH an Optional Energy Recovery Module, Option ER1A, ER1B, ER1C (Roof Curb Option CJ34) (cont'd)

Option CJ34 Roof Curb Corner Hardware (See FIGURE 2B)	
For Top Two "Holes"	(16) 5/16" x 1" Lag Screws, P/N 16243; (16) 5/16" Lockwasher, P/N 1333
For Bottom Two "Holes"	(16) 5/16" x 3/4" Hex Head Cap Screw, P/N 16247; (16) 5/16" Lockwasher, P/N 1333; (16) 5/16-18 Hex Nut, P/N 1035
Hardware to Assemble and Attach Dividers to make Duct Connections and Sealant Tape for Top of Rails: (75) #10 Sheetmetal Screws, P/N 11813; (1) 1/4" x 1-1/4" x 50' Foam Sealant Tape, P/N 66302	

Installation Instructions for Down Discharge Roof Curb, Option CJ34, for MAPS® Cabinet Sizes A, B, and C WITH Energy Recovery Module, Option ER1

1. Assemble the MAPS® Unit Curb Section (Refer to FIGURE 2A, page 5)

- Position the ends and sides (**Codes B, B, A, and J**) of the MAPS® section of the curb as shown in the drawing in FIGURE 2A. Fasten with bolts and lag screws as illustrated in the corner detail (FIGURE 2B).
- Install bottom opening ductwork. Use the sheetmetal screws to attach the dividers (**Codes C1, C2, D1, D2, E, & F** in FIGURE 2A). Attach the return air duct angles (**Codes G & H**) to the attached end and side and to the roof curb. **NOTE:** If the system does not have a return air opening, Codes F, G, & H may be installed in the curb but are not required.

2. Assemble the Energy Recovery Curb Section

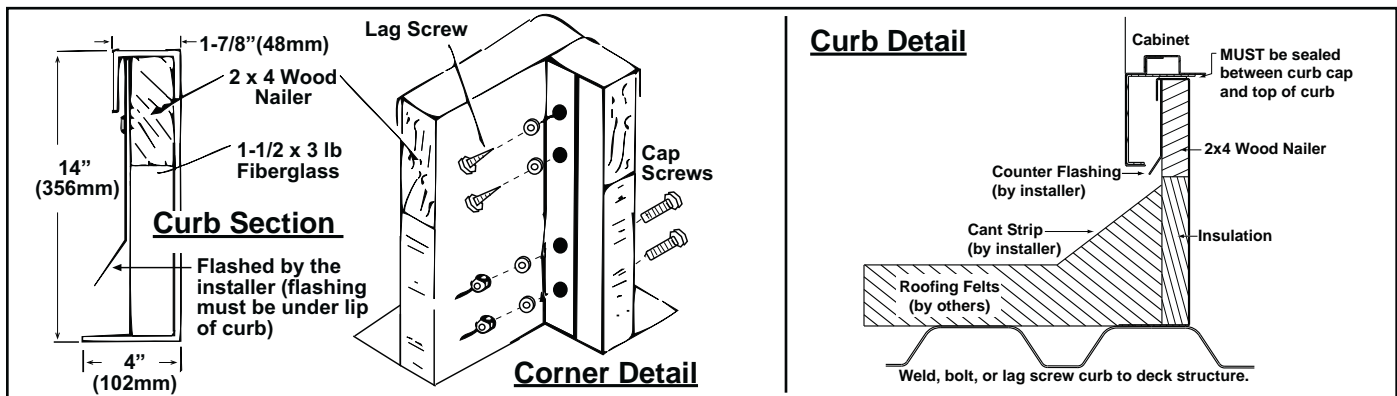
- Position the sides (**Codes L and M**) as shown in the drawing in FIGURE 2A. Attach the sides to the assembled curb section with sheetmetal screws.
- Attach the curb end (**Code A**). Fasten with bolts and lag screws as illustrated in the corner detail (FIGURE 2B).
- Position the tunnel (**Code K**) over the opening in the center. Attach with sheetmetal screws.

3. Check the roof curb for squareness. The curb must be adjusted so that the diagonal measurements are equal within a tolerance of $\pm 1/8"$ ($\pm 3\text{mm}$).

4. Level the roof curb. To ensure a good weatherproof seal between the unit curb cap and the roof curb, the roof curb must be leveled in both directions with no twist end to end. Shim as required and secure curb to the roof deck before installing flashing (See Curb Detail in FIGURE 2B).

5. Install field-supplied flashing.

FIGURE 2B - Option CJ34 Downflow Roof Curb Cross Section and Corner Detail



6. Before placing the MAPS® unit or energy recovery module on the curb:

- If ductwork is being installed from the top, slide the ductwork down into the discharge and return air openings. Ductwork should be sized slightly smaller with a minimum 3/4" duct flange that will rest on and be attached to all sides of the duct connection. See the system installation manual for ductwork requirements.
- Apply 1/4" x 1-1/4" foam sealant tape to both the top surface of the curb rails and the top surface of the perimeter of the integral dividers, being sure to make good butt joints at all corners. The sealant tape must be applied to prevent water leakage into the curb area due to blown rain and capillary action.

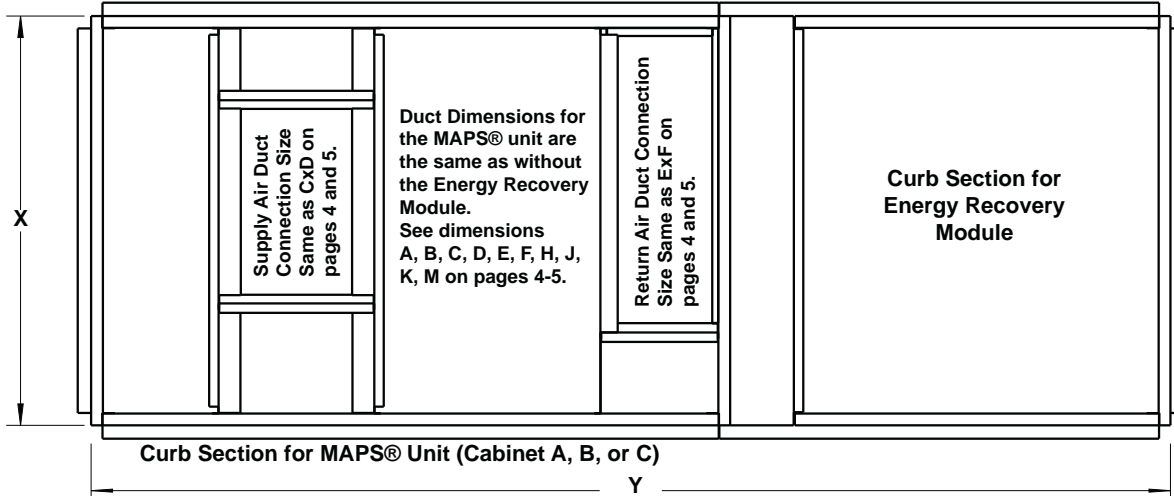
7. Lift the MAPS® unit on to the prepared curb (See Rigging and Lifting in the unit installation manual, Form I-MAPSIII&IV). **IMPORTANT:** Verify that the unit will be placed in the correct airflow orientation to mate properly with the discharge and return air openings.

8. After the MAPS® unit is in place, follow the instructions shipped with the energy recovery module (Form I-MAPSIII&IV-ER) to lift and mate the energy recovery module to the MAPS® unit.

9. Refer to the MAPSIII&IV installation manual and start up information to complete the installation.

FIGURE 2C - Curb Dimensions of Option CJ34 for a MAPS® unit with Option ER1

TOP VIEW - Option CJ34 Roof Curb for MAPS® Cabinet Sizes* A, B, or C with Option ER1, Energy Recovery Module



* See page 2 for cross-reference by Cabinet & Model.

Cabinet Size	RCB/RCC Model Size	RDB/RDC Model Size	Codes - FIG 2C	
			X	Y
Outside Curb Dimensions for Cooling Models RCB/RCC/RDB/RDC with Energy Recovery Module by Cabinet Size, Model Size - inches (±1/8)				
A	060, 078, 090, 118, 120, 136	084, 102, 114, 142, 144, 162	38-5/8	136-3/4
B	160, 186, 200	184, 196, 210, 222, 224, 236, 257	53-5/8	136-3/4
C	190, 216	248, 262, 272, 288	65-1/8	171-5/8
	298, 410	354, 370, 468, 482	65-1/8	171-5/8
Outside Curb Dimensions for Cooling Models RCB/RCC/RDB/RDC with Energy Recovery Module by Cabinet Size, Model Size - mm (±3)				
A	060, 078, 090, 118, 120, 136	084, 102, 114, 142, 144, 162	981	3473
B	160, 186, 200	184, 196, 210, 222, 224, 236, 257	1362	3473
C	190, 216	248, 262, 272, 288	1654	4359
	298, 410	354, 370, 468, 482	1654	4359

Cabinet Size*	RECB/RECC Model Size *	REDB/REDC Model Size *	* Electric Heat Size	Codes - FIGURE 2C	
				X	Y
Curb Dimensions for Cooling/Electric Heat Makeup Air Model RECB, RECC, REDB, REDC by Cabinet Size and Model Size - inches (±1/8)					
A	060, 078, 090, 118, 120, 136	084, 102, 114, 142, 144, 162	All available	38-5/8	136-3/4
B	078, 090, 118, 120, 136, 160, 186, 200	084, 102, 114, 142, 144, 162, 184, 196, 210, 222, 224, 236, 257		53-5/8	136-3/4
	C	190, 216, 298, 410		248, 262, 272, 288, 354, 370, 468, 482	65-1/8
Curb Dimensions for Cooling/Electric Heat Makeup Air Model RECB, RECC, REDB, REDC by Cabinet Size and Model Size - mm (±3)					
A	060, 078, 090, 118, 120, 136	084, 102, 114, 142, 144, 162	All available	981	3473
B	078, 090, 118, 120, 136, 160, 186, 200	084, 102, 114, 142, 144, 162, 184, 196, 210, 222, 224, 236, 257		1362	3473
	C	190, 216, 298, 410		248, 262, 272, 288, 354, 370, 468, 482	1654

Cabinet Size *	RDCB/RDCC Model Size*	RDDB/RDDC Model Size*	Gas Heat Size *	Codes - FIG 2C	
				X	Y
Curb Dimensions for Cooling/Gas Heat Makeup Air Model RDCB, RDCC, RDDB, RDDC with Energy Recovery Module by Cabinet Size and Model Size - inches (±1/8)					
A	060, 078, 090, 118, 120, 136	084, 102, 114, 142	100	38-5/8	136-3/4
		084, 102, 114, 142, 144, 162	150	38-5/8	136-3/4
			200	38-5/8	136-3/4
B	078, 090, 118, 120, 136, 160, 186, 200	102, 114, 142, 144, 162, 184, 196, 210, 222, 224, 236, 257	250	53-5/8	136-3/4
		190, 216, 298, 410	400	65-1/8	171-5/8
			500	65-1/8	171-5/8
C	190, 216, 298, 410	248, 262, 272, 284, 354, 370, 468, 482	600	65-1/8	171-5/8
			700	65-1/8	171-5/8

Cabinet Size *	RDCB/RDCC Model Size*	RDDB/RDDC Model Size*	Gas Heat Size *	Codes - FIG 2C	
				X	Y
Curb Dimensions for Cooling/Gas Heat Makeup Air Model RDCB, RDCC, RDDB, RDDC with Energy Recovery Module by Cabinet Size and Model Size - mm (±3)					
A	060, 078, 090, 118, 120, 136	084, 102, 114, 142	100	981	3473
		084, 102, 114, 142, 144, 162	150	981	3473
			200	981	3473
B	078, 090, 118, 120, 136, 160, 186, 200	102, 114, 142, 144, 162, 184, 196, 210, 222, 224, 236, 257	250	1362	3473
		190, 216, 298, 410	300	1362	3473
			400	1654	4359
C	190, 216, 298, 410	248, 262, 272, 284, 354, 370, 468, 482	500	1654	4359
			600	1654	4359
			700	1654	4359

If area inside curb is open, roof opening dimensions MUST be no greater than:

Cabinet A - 34-13/16"x133" (884x3378mm);

Cabinet B - 49-13/16"x133" (1265x3378mm);

Cabinet C - 61-5/16"x167-7/8" (1557x4264mm).

When cutting only duct openings, cut opening 1" (25mm) larger than duct size to allow clearance for installation.

Approximate Weights of Roof Curb Option CJ34 by Cabinet Size *		Cabinet A	Cabinet B	Cabinet C
		lbs	254	292
	kg	115	132	166

*See Model Size / Cabinet Size Cross Reference on page 2.

1.3 Roof Curbs for Horizontal Airflow (Options CJ49 and CJ50)

Option CJ50 is a 32" (813mm) high horizontal airflow curb for MAPS® III&IV Cabinet Sizes A and B. Option CJ49 is a 36" (914mm) high horizontal airflow curb for MAPS® III &IV Cabinet Size C. Verify all the components and be sure that the curb is correct for the system being installed.

NOTE: Horizontal flow curbs in Section 1.3 do not apply to a MAPS® unit with an optional energy recovery module. For a horizontal airflow curb for a MAPS® unit with an energy recovery module (Option ER1), go to Section 1.4, page 10.

1.0 Roof Curbs for MAPS® Cabinets A, B, C (cont'd)

1.3 Roof Curbs for Horizontal Airflow (Options CJ49 and CJ50) (cont'd)

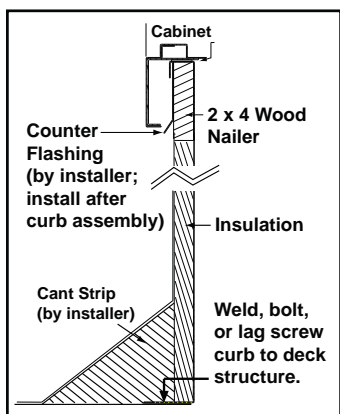
CAUTION:

- Before installation, recheck to be sure that the correct curb has been ordered. Be sure that the curb selected matches the unit ordered. Verify the dimensions of the curb received with the dimensions on page 10.
- Verify components received with those listed. Each part is labeled with an ID letter and a P/N.

Assembly and Installation Instructions for Option CJ49 and CJ50, Curbs for Horizontal Airflow

Assy Hardware Bag, P/N 262438:		
P/N	Description	Qty
1035	Nut 5/16" Hex-18 Thread	16
1333	Lockwasher 5/16 In.	20
16243	Hex Hd Lag Bolt 5/16" x 1-1/4"	4
16247	Cap Screw 5/16 X 3/4"	16
11813	S/M Screw #10-16x1/2 Ab Stalgd	125
66302	1-1/4x1/4 x 50 ft Sealant Tape	

FIGURE 3B - Curb Detail

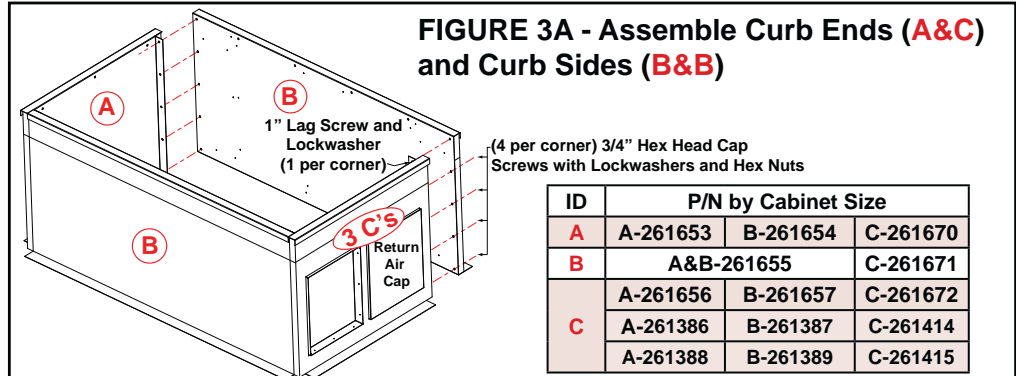


Components and Application

Roof Curb P/N's by Model & Cabinet Size *			Cabinet A	Cabinet B	Cabinet C
Models RCB/RCC/RDB/RDC			*All Sizes	*All Sizes	*All Sizes
Models RDCB/RDCC/RDDB/RDDC with Cabinet & Gas Heat Size Combination			With Gas Heat Sizes 100/150/200	With Gas Heat Sizes 250/300	With Gas Heat Sizes 400/500/600/700/1000
Models RECB/RECC/REDB/REDC			*All Sizes	*All Sizes	*All Sizes
ID on Part	Roof Curb Package P/N (Option)	Qty	261699 (CJ50)	261700 (CJ50)	261701 (CJ49)
Component Descriptions			Component P/N's		
A	Curb End Assembly (solid)	1	261653	261654	261670
B	Curb Side Assembly (insulated)	2	261655		
3 C's	Curb End Assembly (insulated)	1	261656	261657	261672
	Duct Flanges (4pcs in one bundle)	4	261386	261387	261414
	Return Air Cap (not used with return air)	1	261388	261389	261415
D	Supply Duct End (solid insulated partition)	1	261658	261659	261673
E	Supply Duct Bottom (insulated) (**2 pcs)	**1	261660	261661	** 261674 & 261428
F	Supply Air Duct Bottom Liner (**2 pcs)	**1	261394	261395	** 261418 & 261429
G	Air Baffle ("curve" in the supply duct)	1	268604	268605	268606
H	Supply Air Duct Center Divider	1	261396	261397	261419
J	Return Air Duct Partition	1	261662	261663	261675
K	Vertical Divider (lower part) between Supply and Return Air Ducts	1	261666		
L	Divider (upper part) between Supply and Return Air Ducts	1	261667	261668	261678
M	Duct Divider Top Liner	1	261408	261409	261426
N	Duct Divider Bottom Liner	1	261405		
P	Supply Air Duct Large Top (insulated)	1	261664	261665	261676
Q	Supply Air Duct Small Top (insulated)	1	261669		
	Hardware Bag	1	262438 (see content list, left below)		

* See Model Size / Cabinet Size Cross Reference on page 2. ** Curb bottom in Cabinet C is 2-piece.

1. Follow the Steps and refer to the curb assembly drawings
2. Position curb ends (**Codes A & "large" C**) and curb side rails (**Codes B & B**) as shown in **FIGURE 3A**. Join the corners as illustrated. Locate the 4-pc bundle labeled (**C**). Using sheetmetal screws from the hardware package, attach the duct flange pieces to both the inlet and return air openings. If not using return air in the installation, position the return air cap (**C**) over the opening and attach. If a return air duct will be used, the cap is not needed.

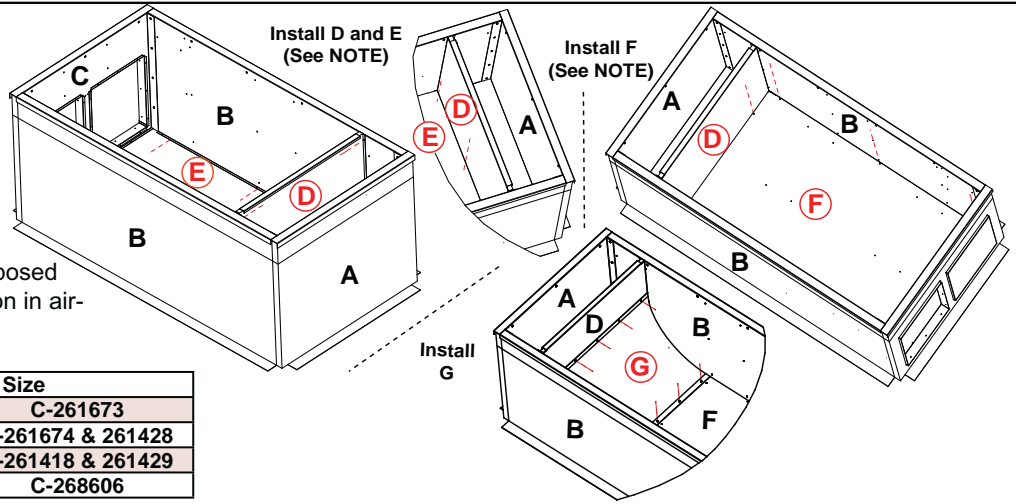


3. Check the assembly for squareness. The curb must be adjusted so that the diagonal measurements are equal within a tolerance of $\pm 1/8"$ ($\pm 3mm$).
4. Level the roof curb. To ensure a good weatherproof seal between the unit curb cap and the roof curb, the roof curb must be leveled in both directions with no twist end to end. Shim as required and secure curb to roof deck. (**NOTE:** Install internal ducts **before** flashing; see Step 5.)
5. Install solid partition (**Code D**), duct bottom (**Codes E & F**), and air baffle (**Code G**) using sheetmetal screws (See **FIGURE 3C**).
 - a) Position the solid partition (**Code D**) with insulation side toward the solid end of the curb. Align the holes (push the insulation out of the way) and attach partition to curb sides (**B & B**).
 - b) Position insulated duct bottom (**Code E**) with insulation side up in the bottom of the curb. Align the holes (push the insulation out of the way) and attach partition to curb sides (**B & B**). Attach the bottom to the partition (**D**).
 - c) Position the bottom liner (**Code F**) over the insulation in the bottom of the curb. Align the holes and attach around the perimeter.
 - d) Position the air baffle (**Code G**) against the partition (**D**). Align the holes and attach. Align the air baffle with the holes in the bottom liner (**F**) and attach.

FIGURE 3C - Install Supply Duct Partition (D), Bottom (E), Bottom Liner (F), and Air Baffle (G)

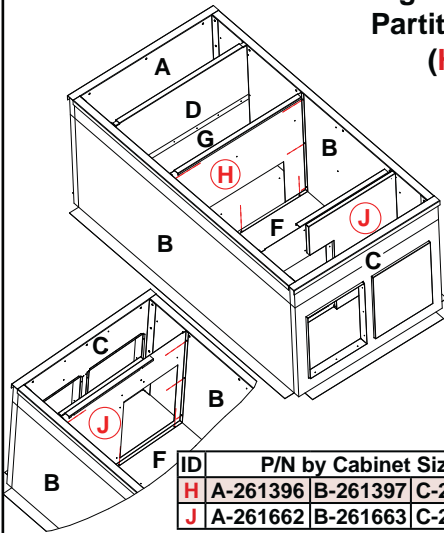
NOTE: Cabinet C - Insulated Bottom (Code E) and Bottom Liner (Code F) are two piece.

Insulation NOTE: There is no exposed insulation in the ducts. All insulation in air-flow paths is covered with a liner.



ID	P/N by Cabinet Size		
D	A-261658	B-261659	C-261673
E	A-261660	B-261661	C-261674 & 261428
F	A-261394	B-261395	C-261418 & 261429
G	A-268604	B-268605	C-268606

FIGURE 3D - Install the Large Duct Partitions (H&J)

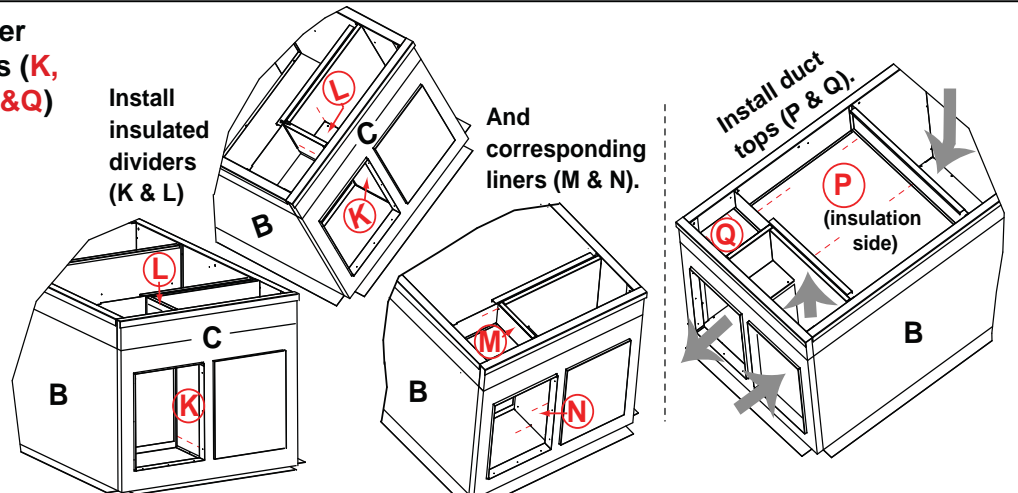


ID	P/N by Cabinet Size		
H	A-261396	B-261397	C-261419
J	A-261662	B-261663	C-261675

- Install supply air duct partition (Code H) and return air duct partition (Code J) using sheetmetal screws. (See FIGURE 3D).
 - Position partition (Code H) in the orientation illustrated. Align the holes and attach the partition to curb sides (B & B) and bottom liner (F).
 - Position partition (Code J) in the orientation illustrated. Align the holes and attach the partition to curb sides (B & B) and bottom liner (F).
- Install supply air and return duct dividers (Code K) and (Code L); divider liners (Code M) and (Code N); and duct tops (Code P) and (Code Q) using sheetmetal screws. (See FIGURE 3E).
 - Position and attach duct dividers (Codes K & L) as illustrated. Cover the insulation with liners (Codes M & N) and attach with screws.
 - Position tops (Codes P & Q) with insulation side up. Align the holes (push the insulation out of the way) and attach the perimeter.
- Install field-supplied flashing (FIGURE 3B, page 8).

FIGURE 3E - Install Smaller Duct Partitions and Liners (K, L, M, N) and Duct Tops (P&Q)

ID	P/N by Cabinet Size		
K	A&B-261666		C-261677
L	A-261667	B-261668	C-261678
M	A-261408	B-261409	C-261426
N	A&B-261405		C-261424
P	A-261664	B-261665	C-261676
Q	A&B-261669		C-261679

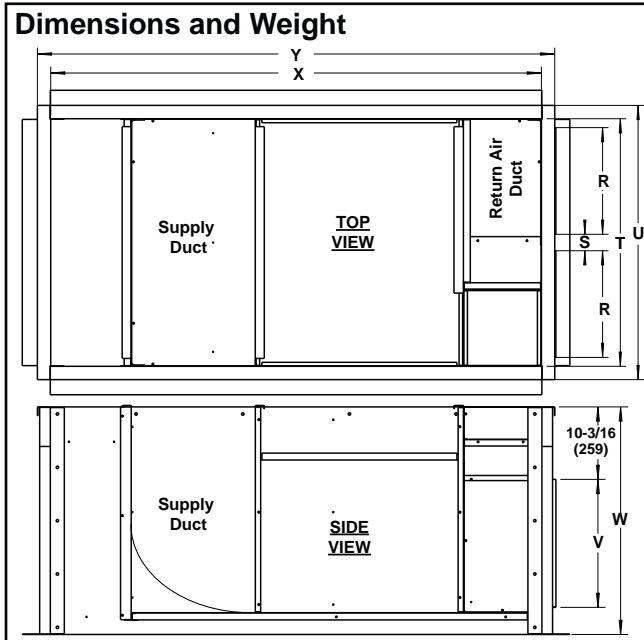


9. Before placing the MAPS® unit or optional duct furnace on the curb:

- Apply 1/4" x 1-1/4" foam sealant tape to both the top surface of the curb rails and the top surface of the perimeter of the duct dividers, being sure to make good butt joints at all corners.
- If installing an optional duct furnace curb section (Option JH), place it on the curb before the unit. Follow the instructions in the system installation manual.
- When it is time to lift the MAPS® unit or optional duct furnace onto the prepared curb** (See Rigging and Lifting in the unit installation manual, Form I-MAPS III&IV), be sure that all of the above preparations have been made. **IMPORTANT:** Verify that the unit will be placed in the correct airflow orientation to mate properly with the discharge and return air openings. **Remember that the INLET AIR END OF THE UNIT is at the DISCHARGE (duct connection) END OF THE CURB.**

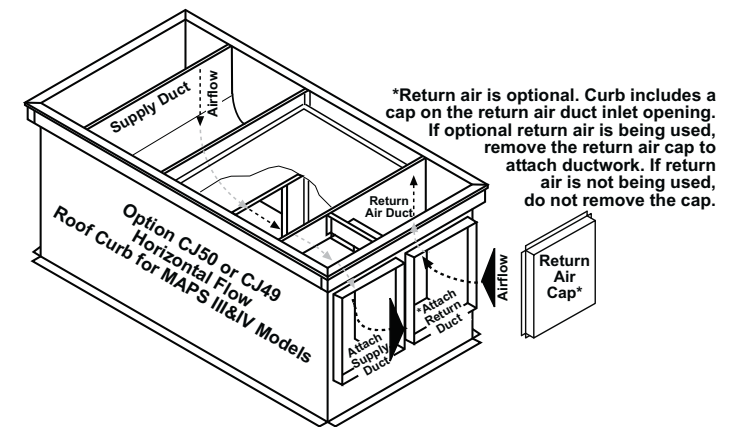
1.0 Roof Curbs for MAPS® Cabinets A, B, C (cont'd)

1.3 Curbs for Horizontal Airflow (CJ49 and CJ50) (cont'd) FIGURE 3F - Dimensions and Airflow - Options CJ49 and CJ50 for MAPS® Cabinets A, B, and C without an Energy Recovery Module



Cabinet	R	S	T	U	V	W	X	Y	Wt	
A*	inches	15	2-5/16	34-13/16	38-5/8	18	32	69	72-3/4	353 lbs
	mm	381	59	884	981	457	813	1753	1848	160 kg
B*	inches	22-1/2	2-5/16	49-13/16	53-5/8	18	32	69	72-3/4	434 lbs
	mm	572	59	1265	1362	457	813	1753	1848	197 kg
C*	inches	28-1/4	2-5/8	61-5/16	65-1/8	22	36	97-7/8	101-5/8	654 lbs
	mm	718	67	1557	1654	559	914	2486	2581	297 kg

*See Model Size / Cabinet Size Cross Reference on page 2.



1.4 Roof Curbs for Horizontal Airflow (Options CJ54 and CJ53) for MAPS® III&IV Cabinets A, B, and C WITH an Energy Recovery Module

Option CJ54 is a 32" (813mm) high horizontal airflow curb for MAPS® III&IV Cabinet Sizes A and B. Option CJ53 is a 36" (914mm) high horizontal airflow curb for MAPS® III&IV Cabinet Size C. Verify all the components and be sure that the curb is correct for the system being installed.

Components and Application

CAUTION:

- Before installation, recheck to be sure that the correct curb has been ordered. Be sure that the curb selected matches the unit ordered. Verify the dimensions of the curb received with the dimensions on page 13.
- NOTE: Horizontal curbs in Section 1.4 do not apply to a MAPS® unit without an optional energy recovery module. For a MAPS® unit without an energy recovery module, see Section 1.3.
- Verify components received with those listed. Each part is labeled with an ID letter and a P/N.

Roof Curb P/N's by Model & Cabinet Size *			Cabinet A	Cabinet B	Cabinet C
Models RCB/RCC/RDB/RDC			*All Sizes	*All Sizes	*All Sizes
Models RDCB/RDCC/RDDB/RDDC with Cabinet & Gas Heat Size Combination			With Gas Heat Sizes 100/150/200	With Gas Heat Sizes 250/300	With Gas Heat Sizes 400/500/600/700/1000
Models RECB/RECC/REDB/REDC			*All Sizes	*All Sizes	*All Sizes
ID on	Roof Curb Package P/N (Option)		262533 (CJ54)	262534 (CJ54)	262535 (CJ53)
Part	Component Description:	Qty	Component P/N's		
A	Curb End Assembly (solid w/insulation)	1	261653	261654	261670
B	Curb Side Assembly (insulated)	2	261655		
C	Supply Duct End (solid insulated partition)	1	261658	261659	261673
D	Supply Duct Bottom (insulated) (** 2 pcs)	**1	261660	261661	** 261674 & 261428
E	Supply Air Duct Bottom Liner (** 2 pcs)	**1	261394	261395	** 261418 & 261429
F	Air Baffle ("curve" in the supply duct)	1	268604	268605	268606
G1	Supply Air Duct Center Divider	1	261396	261663	261419
G2	Return Air Duct Partition Assembly	1	261662	261663	261675
H	Vertical Divider (lower part) between Supply and Return Air Ducts	1	261666		261677
J	Divider (upper part) between Supply and Return Air Ducts	1	261667	261668	261678
K	Duct Divider Top Liner	1	261408	261409	261426
L	Duct Divider Bottom Liner	1	261405		261424
M	Supply Air Duct Large Top (insulated)	1	261664	261665	261676
N	Supply Air Duct Small Top (insulated)	1	261669		261679
P	Horizontal Curb End Connector to ER	1	261384		262425
Q	Liner Support	2	262538	262547	262428
R	Right Curb Side Assy (under ER Module)	1	262537		262427
S	Left Curb Side Assy (under ER Module)	1	262536		262426
T	Duct Bottom Assembly (insulated) (under ER Module) (** 2 pieces)	**1	262539	** 262548 & 262553	** 261674 & 262429
U	Curb Tunnel (between unit & ER)	1	261993	261994	260856
V	Bottom Duct Liner (under ER) (** 2 pcs)	**1	262541	262550	** 261418 & 262430
W	Vertical Duct Divider (insulated)	1	262543		262431
X	Vertical Return Air Duct Liner	1	262544		262432
	Curb End Assembly (insulated)	1	261656	261657	261672
3 Y's	Duct Flanges (4pcs in one bundle)	4	261386	261387	261414
	Return Air Cap (not used with return air)	1	261388	261389	261415
Z	Duct Top Assembly (insulated)	1	262545	** 262552 & 262556	** 261676 & 262435
	Hardware Bag	1	(see content list, page 11)		

*See Model Size / Cabinet Size Cross Reference on page 2. ** Curb part is two-piece; one of each P/N is required.

Assembly and Installation Instructions for Option CJ54 and CJ53, Curbs with Energy Recovery Module

Hardware Bag includes:

P/N	Description	Qty
1035	Nut 5/16" Hex-18 Thread	48
1333	Lockwasher 5/16 In.	60
16243	Hex Hd Lag Bolt 5/16" x 1-1/4"	12
16247	Cap Screw 5/16 x 3/4"	48
11813	S/M Screw #10-16x1/2 Ab Stalgd	210
66302	1-1/4 x 1/4 x 50 ft Sealant Tape	

- Follow the Steps and refer to the curb assembly drawings
- Position curb end (**Code A**) and curb side rails (**Codes B & B**) as shown in **FIGURE 4A**. Join the two corners as illustrated.
- Install supply duct end (**Code C**), bottom (**Codes D & E**), and air baffle (**Code F**).
 - Position the solid partition (**Code C**) with insulation side toward the solid end of the curb. Align the holes (push the insulation out of the way) and attach partition to curb sides (**B & B**).
 - Position the duct bottom (**Code D**) in the curb with insulation side up. Align the holes (push the insulation out of the way) and attach partition to curb sides (**B & B**). Attach the bottom (**Code D**) to the partition (**C**).
 - Position the bottom liner (**Code E**) over the insulation in the bottom of the curb. Align the holes and attach around the perimeter.
 - Position the air baffle (**Code F**) against the partition (**C**). Align the holes and attach. Align the air baffle with the holes in the bottom liner (**E**) and attach.

FIGURE 4A - Assemble Curb End (A), Curb Sides (B&B), Supply Duct End (C), Insulated Bottom (D) Bottom Liner (E) and Baffle (F)

Insulation NOTE: There is no exposed insulation in the ducts. All insulation in airflow paths is covered with a liner.

ID	P/N by Cabinet Size		
A	A-261653	B-261654	C-261670
B	A&B-261655		C-261671
C	A-261658	B-261659	C-261673
D	A-261660	B-261661	C-261674 & 261428
E	A-261394	B-261395	C-261418 & 261429
F	A-268604	B-268605	C-268606

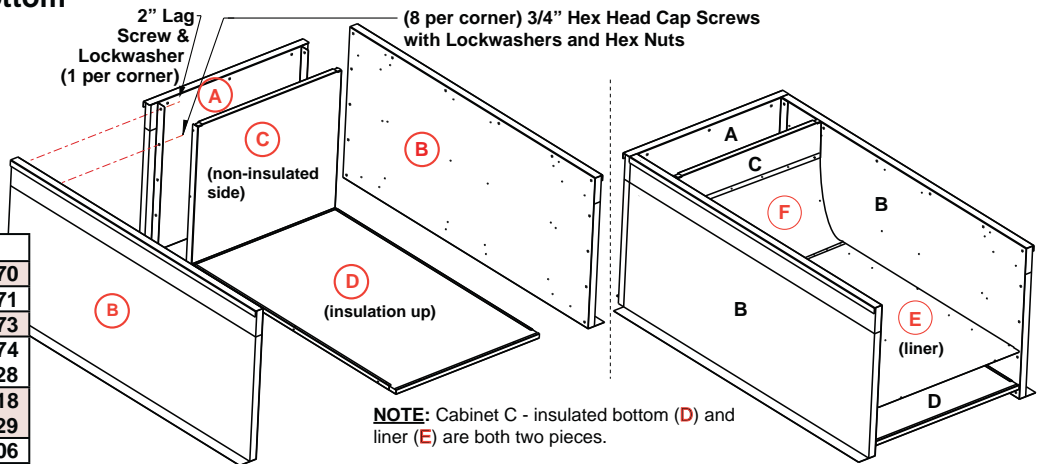
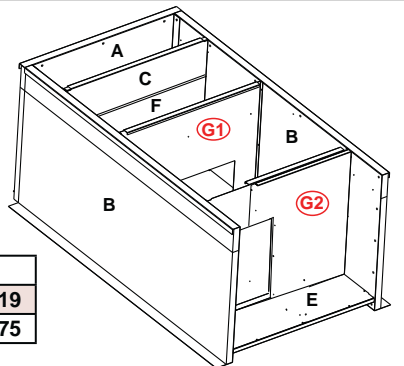


FIGURE 4B - Install Duct Partitions G1 and G2

ID	P/N by Cabinet Size		
G1	A-261396	B-261663	C-261419
G2	A-261662	B-261663	C-261675

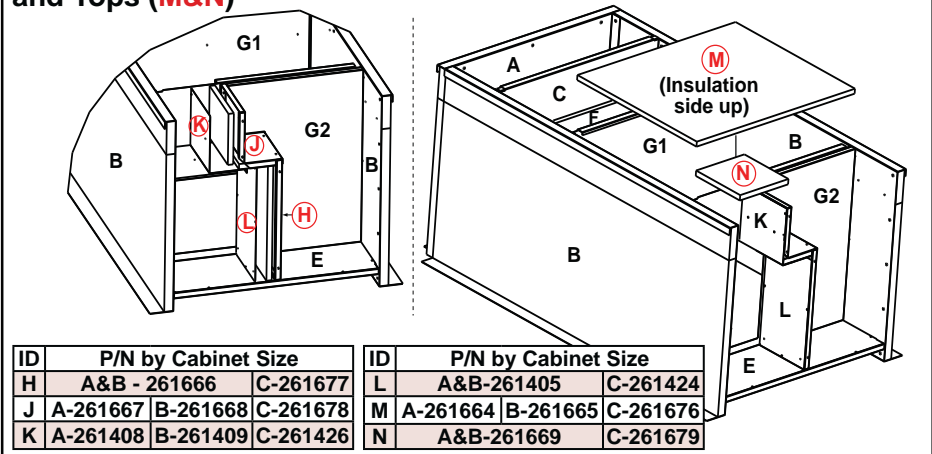


- Install supply air duct partition (**Code G1**) and return air duct partition (**Code G2**) with sheet-metal screws (**FIGURE 4B**).
 - Position partition (**Code G1**) in the orientation illustrated. Align the holes and attach the partition to curb sides (**B & B**) and bottom liner (**E**).
 - Position partition (**Code G2**) in the orientation illustrated. Align the holes and attach the partition to curb sides (**B & B**) and bottom liner (**E**).

- Install supply air and return air insulated duct dividers (**Codes H & J**); divider liners (**Codes K & L**); and duct tops (**Codes M & N**) using sheetmetal screws (**FIGURE 4C**).

- Position and attach duct dividers (**Codes H & J**) as illustrated. Cover the insulation with liners (**Codes K & L**) and attach with screws.
- Position tops (**Codes M & N**) with insulation side up. Align the holes (push the insulation out of the way) and attach the perimeter.

FIGURE 4C - Install Smaller Duct Partitions and Liners (H, J, K, L) and Tops (M&N)



ID	P/N by Cabinet Size		
H	A&B - 261666	C-261677	
J	A-261667	B-261668	C-261678
K	A-261408	B-261409	C-261426

ID	P/N by Cabinet Size		
L	A&B-261405	C-261424	
M	A-261664	B-261665	C-261676
N	A&B-261669	C-261679	

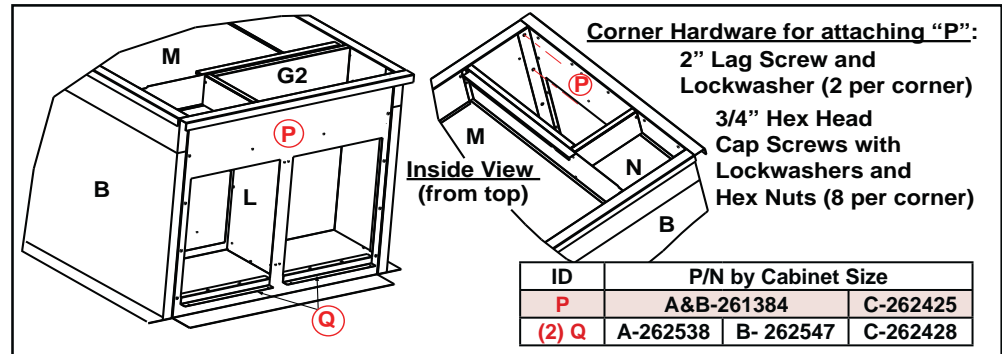
1.0 Roof Curbs for MAPS® Cabinets A, B, C (cont'd)

1.4 Curbs for Horizontal Airflow (Options CJ54 and CJ53) for MAPS® Cabinet A, B, and C WITH an Energy Recovery Module (cont'd)

FIGURE 4D - Install Unit Curb End (P) & Liner Supports (2 Q's) for the curb section under the Energy Recovery Modul

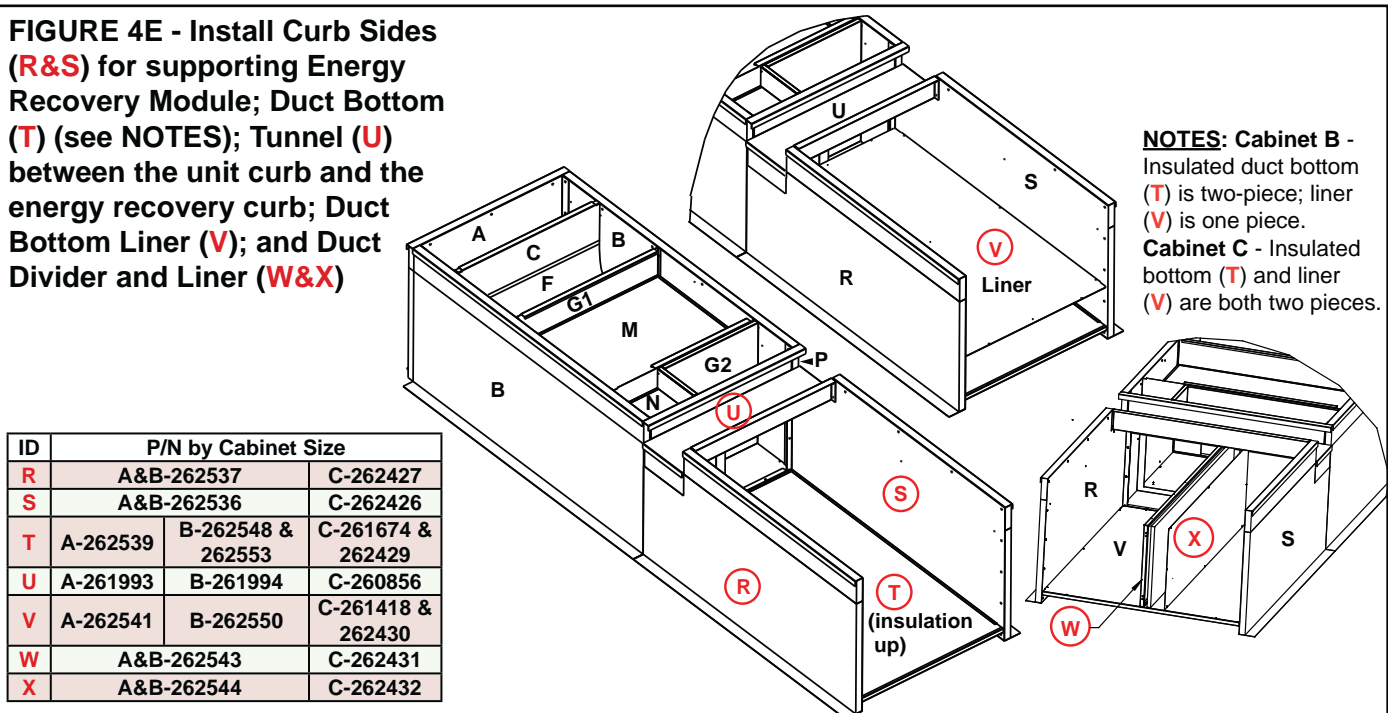
Assembly and Installation Instructions (cont'd)

6. Install end connector (Code P) and two liner supports (Code Q) (FIGURE 4D).
 - a) Position end connector (Code P) as illustrated. Attach at both corners with hardware listed. Attach the "front" with sheetmetal screws.
 - b) Position the two liner supports (Code Q) in the openings and attach with sheetmetal screws.



7. Install energy recovery curb section sides, duct bottom and divider, and "tunnel" cover.
 - a) Position curb sides (Codes R & S) and attach to sides (B & B) with sheetmetal screws.
 - b) Position the duct bottom (Code T) in the curb with insulation side up. Align the holes (push the insulation out of the way) and attach partition to curb sides (R & S). Attach the bottom (Code T) to the connector end (P).
 - c) Position the bottom liner (Code V). Align the holes and attach with sheetmetal screws.
 - d) Position the tunnel (Code U) over the gap between the unit and energy recovery curb sections. Attach with sheetmetal screws.
 - e) Position the vertical, insulated duct divider (Code W); attach it to the bottom liner and the tunnel (Code U). Position the liner (Code X) over the insulation and attach.

FIGURE 4E - Install Curb Sides (R&S) for supporting Energy Recovery Module; Duct Bottom (T) (see NOTES); Tunnel (U) between the unit curb and the energy recovery curb; Duct Bottom Liner (V); and Duct Divider and Liner (W&X)



8. Install the end with duct connections and the duct top (FIGURE 4F)

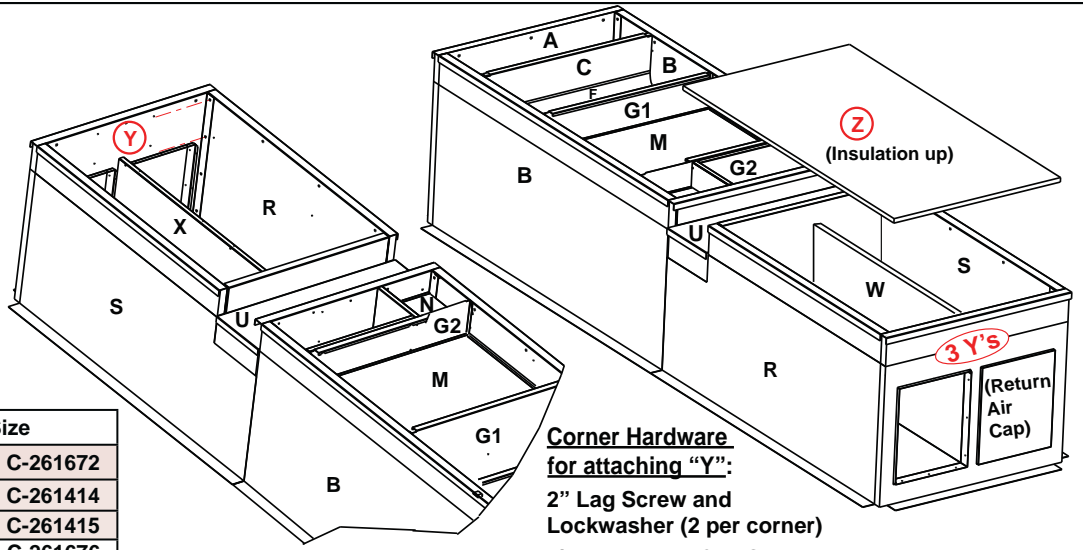
- a) Using sheetmetal screws in the hardware package, attach the duct flange pieces ("bundle" Code Y) to the openings in the end panel ("large" Code Y). Position the end panel with flanges and attach to the curb sides with corner hardware as shown.

If not using return air in the installation, position the return air cap (Y) over the opening and attach. If a return air duct will be used, the cap is not needed.

- b) Position duct top (Code Z) with insulation side up. Align holes and attach with sheetmetal screws.

FIGURE 4F - Install the Curb End with Duct Connections (3 Y'S) and the Energy Recovery Section Duct Top (Z)

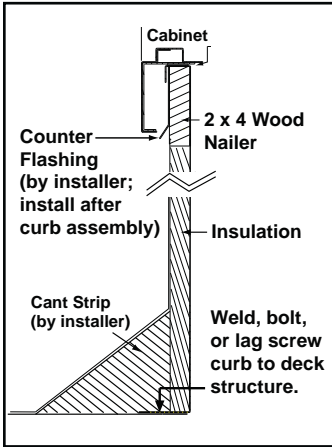
NOTE: Cabinet Sizes B and C - Insulated Duct Top (Code Z) is two piece.



ID	P/N by Cabinet Size		
Y	A-261656	B-261657	C-261672
	A-261386	B-261387	C-261414
	A-261388	B-261389	C-261415
Z	A-262545	B-262552 &262556	C-261676 &262435

Corner Hardware for attaching "Y":
 2" Lag Screw and Lockwasher (2 per corner)
 3/4" Hex Head Cap Screws with Lockwashers and Hex Nuts (8 per corner)

FIGURE 4G - Curb Detail



9. Complete field installation of the roof curb
 - a) Check the assembly for squareness. The curb must be adjusted so that the diagonal measurements are equal within a tolerance of $\pm 1/8"$ ($\pm 3\text{mm}$).
 - b) Level the roof curb. To ensure a good weatherproof seal between the unit curb cap and the roof curb, the roof curb must be leveled in both directions with no twist end to end. Shim as required and secure curb to roof deck.
 - c) Install field-supplied flashing (FIGURE 4G).
 - d) Apply 1/4" x 1-1/4" foam sealant tape to both the top surface of the curb rails and the top surface of the perimeter of the duct dividers, being sure to make good butt joints at all corners.
10. Lift the MAPS® unit on to the prepared curb (See Rigging and Lifting in the unit installation manual, Form I-MAPSIII&IV). **IMPORTANT:** Verify that the unit will be placed in **the correct airflow orientation to mate properly with the discharge and return air openings**. Remember that the energy recovery module is at the discharge end of the curb.
11. After the MAPS® unit is in place, follow the instructions shipped with the energy recovery module (Form I-MAPSIII&IV-ER) to lift and mate the energy recovery module to the MAPS® unit.
12. Refer to the MAPS® installation manual and start up information to complete the installation.

FIGURE 4H - Weights and Dimensions of Options CJ54 & CJ53 for MAPS® Unit with an Energy Recovery Module

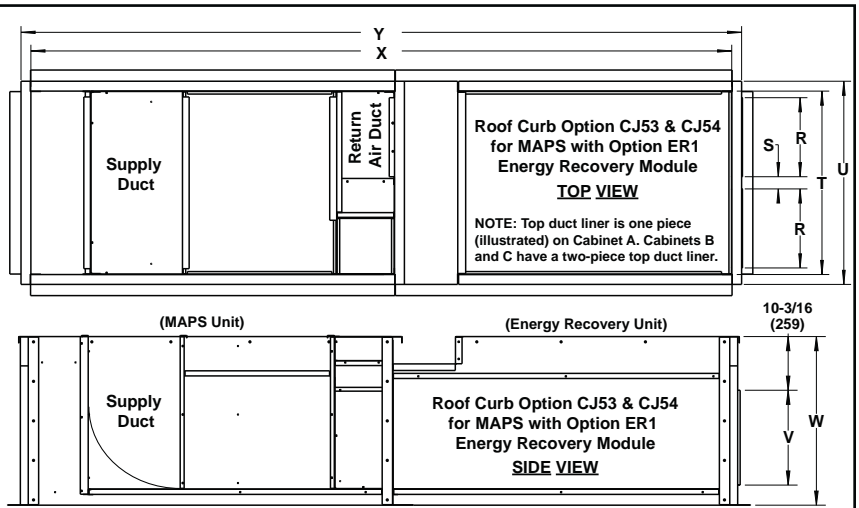
Dimensions (inches/mm)

Cabinet	R	S	T	U	V	W	X	Y	
A*	inches	15	2-5/16	34-13/16	38-5/8	18	32	133	136-3/4
	mm	381	59	884	981	457	813	3378	3473
B*	inches	22-1/2	2-5/16	49-13/16	53-5/8	18	32	133	136-3/4
	mm	572	59	1265	1362	457	813	3378	3473
C*	inches	28-1/4	2-5/8	61-5/16	65-1/8	22	36	167-7/8	171-5/8
	mm	718	67	1557	1654	559	914	4264	4359

Roof Curb Weight

Cabinet Size *	A	B	C
	Opt CJ54	Opt CJ4	Opt CJ53
lbs	675	785	1087
kg	306	356	493

*See Model Size / Cabinet Size Cross Reference on page 2.

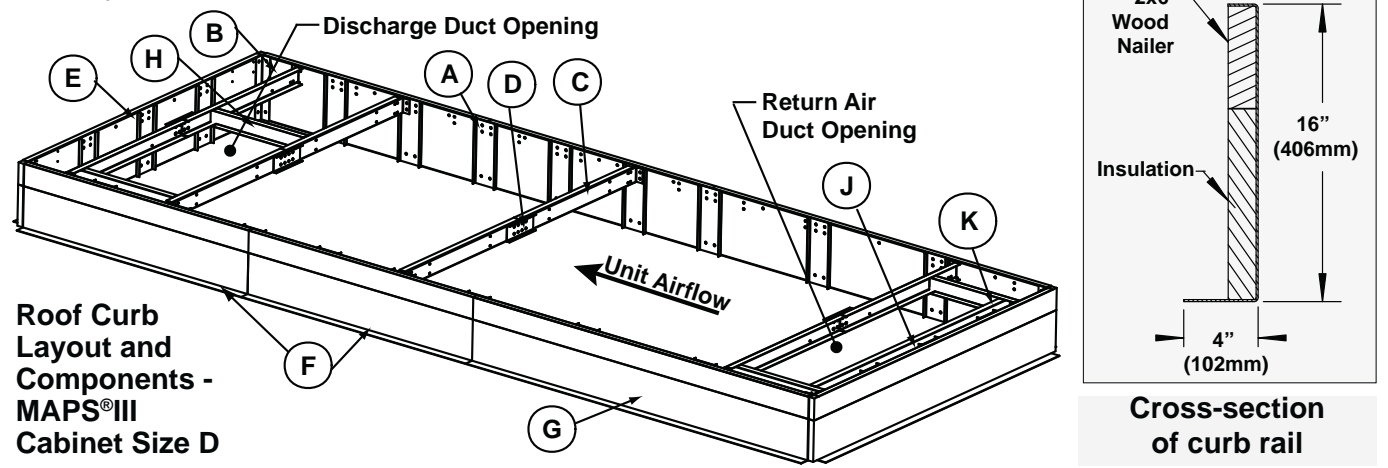


2.0 Roof Curbs for MAPS®III Models RCB, RDB, RDCB, RDDB, RECB, REDB Cabinet Size D

Roof Curb Components - Option CJ3 for MAPS®III Cabinet D

There are two sizes of curbs for MAPS®III D Cabinet units. Verify that the curb package received is appropriate for the unit. Check components against the applicable list, below.

FIGURE 5A - Option CJ3 Roof Curb Pkg P/N's, Application, Components, and Layout



Option CJ3 Roof Curb Packages for MAPS®III for D Cabinet Sizes)		Pkg P/N 223041 for all Sizes of RCB, RDB, RECB & REDB and all RDCB & RDDB w/Heat Section 500, 600, 700, 800		Pkg P/N 223042 for all Sizes of RDCB & RDDB w/Heat Section 1000, 1200, 1400, 1600	
Code	Component Description	Qty	P/N	Qty	P/N
A	Rail Side Support Channel	4	222068	4	222068
B	Curb Corner Support Angle	4	222069	4	222069
C	Curb Cross Support	8	222072	8	222072
D	Cross Support Splicing Bracket	4	222073	4	222073
E	Curb Rail End	2	222899	2	222899
F	Curb Side Rail Section	6	222900	4	222900
G	Curb Side Rail Section	--	N/A	2	222901
H	Discharge Duct Side Support	2	255637	2	255637
J	Return Air Duct End Support	1	255638	1	255638
K	Return Air Duct Side Support	2	255639	2	255639

Assembly and Installation Instructions for MAPS®III Cabinet Size D Roof Curb

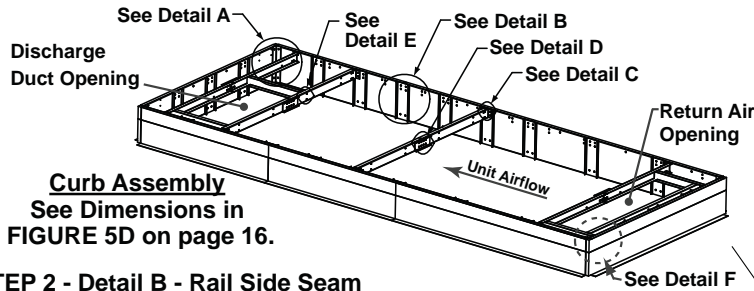
Note: If the installation has horizontal inlet only or horizontal discharge, it is not necessary to install the unused duct supports. **Cross supports must always be installed.**

CAUTION: Before installation, recheck to be sure that the correct curb has been ordered. Be sure that the curb selected matches the unit ordered. Verify the dimensions of the curb received with the dimension table. Roof curb installation is the responsibility of the installer.

Assembly Hardware and Tape shipped with curb:	
(24) P/N 163334, Cap Screw, 7/16-14 x 2-1/2" long	(16) P/N 7328, Hex Nut 1/4-20 Keps
(40) P/N 163335, Cap Screw, 7/16-14 x 3/4" long	(4) P/N 114485 1/4-28 x 2-1/2 Bolt
(64) P/N 15119, Lockwasher, 7/16-14	(4) P/N 114486, Hex Nut 1/4-28
(64) P/N 15117, Hex Nut, 7/16-14	(4) P/N 96854, 1/4" Ext Tooth Lockwasher
(16) P/N 47252, 1/4-20 x 5/8 Bolt	66302 1-1/4 x 1/4 x 50 ft Sealant Tape

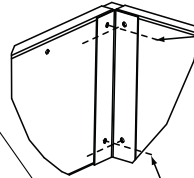
- Curb Rails** - Position the roof curb rails as shown in **FIGURE 5A** above and **5D** on page 16. When installing a curb for a unit with heat section size 1000, 1200, 1400 or 1600, be sure to **place the longer curb side pieces at the return air end**. Assemble the corners and sides as shown in **STEPS 1 and 2** in **FIGURE 5B**.
- Cross Supports** - Position the four two-piece roof curb cross supports and splice brackets in the locations shown in **FIGURE 5D** (page 16). **Be certain to turn supports so that the splice brackets will not be in the duct openings**. Assemble as shown in **STEPS 3 and 4** in **FIGURE 5B**.
- Discharge Duct Supports** - Position the two discharge duct side supports as shown in **FIGURES 5A and 5D**, and attach to cross supports as shown in **STEP 5** in **FIGURE 5B**.

FIGURE 5B - Option CJ3 Roof Curb Assembly for MAPS®III Cabinet D



STEP 1 - Detail A - Curb Corner

Position rails as illustrated. If installing Pkg P/N 220342, be sure to put the two longer rail side pieces at the return air end. Position the angle support in the corner and attach with hardware as illustrated.



Hardware used for 4 Corner Tops:
 (8) 2-1/2" Cap Screws, P/N 163334
 (8) Lock Washers, P/N 15119
 (8) Hex Nuts, P/N 15117

TOP - Cap screw heads should be on the wood side of the rail.

Hardware used for 4 Corner Bottoms:
 (8) 3/4" Cap Screws, P/N 163335
 (8) Lock Washers, P/N 15119
 (8) Hex Nuts, P/N 15117

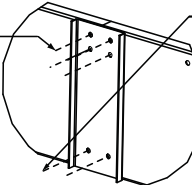
BOTTOM - Cap screw heads should be on the insulation side of the rail.

STEP 2 - Detail B - Rail Side Seam

Connect rail side pieces with the support channels and hardware as illustrated.

Hardware used for 4 Seams (Top):
 (16) 2-1/2" Cap Screws, P/N 163334
 (16) Lock Washers, P/N 15119
 (16) Hex Nuts, P/N 15117

TOP - Cap screw heads should be on the wood side of the rail.



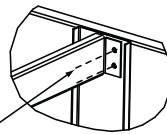
Hardware used for 4 Seams (Bottom):
 (8) 3/4" Cap Screws, P/N 163335
 (8) Lock Washers, P/N 15119
 (8) Hex Nuts, P/N 15117

BOTTOM - Cap screw heads should be on the insulation side of the rail.

STEP 3 - Detail C - Attaching 8 Cross Support Pieces to the Side Rails (See FIGURE 5D for locations.)

Determine locations of the four cross supports; dimensions are in FIGURE 5D, page 16. Follow the instructions to attach the ends of all 8 center cross support pieces (4 cross supports; each with two pieces)

- 1) Remove the two screws at the top of the curb rail.
- 2) Position the cross support at the top of the curb as illustrated.
- 3) Re-insert screws attaching the cross support.



STEP 5 - Detail E - Attaching the Two Discharge Air Duct Side Supports to Curb Cross Supports

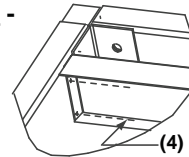
See FIGURE 5D; position and attach the two discharge duct side supports "inside" the curb cross supports.



(8) 1/4-20 x 5/8 Bolts, P/N 47252
 (8) 1/4-20 Hex Nuts, P/N 7328

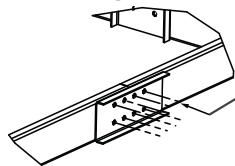
STEP 6 - Detail F - Attaching Two Return Air Duct Side Supports to Curb Rail (one end of each support)

See FIGURE 5D; position and attach the two return air duct side supports "inside" the curb rail.



(4) 1/4-28 x 2-1/2 Bolt, P/N 114485
 (4) Hex Nut 1/4-28, P/N 114486
 (4) Lock Washers, P/N 96854

STEP 4 - Detail D - Attaching Splicing Bracket to Connect Centers of the Four Cross Supports (NOTE: If splice is in a duct opening, bracket MUST NOT BE INSIDE the opening.)



Hardware for attaching the four Splicing Brackets:
 (32) 3/4" Cap Screws, P/N 163335
 (32) Lock Washers, P/N 15119
 (32) Hex Nuts, P/N 15117

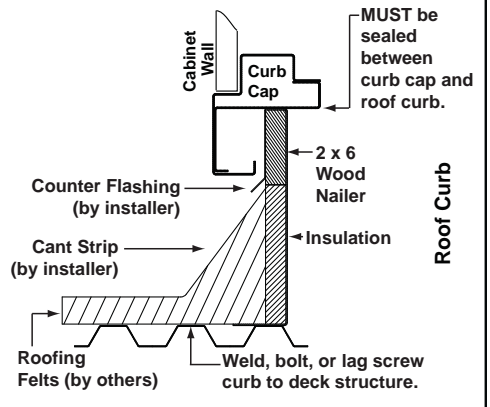
STEP 7 - Repeat Detail E (STEP 5) to attach the opposite ends of the return air duct side supports (attached in STEP 6) to the cross support. Repeat Detail E (STEP 5) again to complete the return air duct support by attaching each end of the return air duct end support to the installed side supports.

(8) 1/4-20 x 5/8 Bolts, P/N 47252; (8) 1/4-20 Hex Nuts, P/N 7328

4. **Return Air Duct Supports** - Position the two return air side supports and the end support as shown in FIGURES 5A and 5D. Follow STEP 7 in FIGURE 5B to attach.
5. Check the roof curb for squareness. The curb must be adjusted so that the diagonal measurements are equal within a tolerance of $\pm 1/8"$ (3mm).
6. Level the roof curb. To ensure a good weatherproof seal between the cabinet curb cap and the roof curb, the curb must be leveled in both directions with no twist end to end. Shim as required and secure curb to the roof deck before installing flashing.
7. Install field-supplied flashing. See FIGURE 5C.
8. If the unit has return air and/or down discharge, insert ductwork into the duct openings. See ductwork sizes in FIGURE 5E.
9. **Before placing the unit on the curb:**

- If ductwork is being installed from the top, slide the ductwork down into the discharge and return air openings. See dimensions in FIGURE 5E. Ductwork should be sized slightly smaller with a minimum 3/4" duct flange that can be attached on all sides of the duct connection. See the system installation manual for ductwork requirements
- Apply 1/4" x 1-1/4" foam sealant tape to both the top surface of the curb rails and the top surface of the perimeter of the dividers, being sure to make good butt joints at all corners. The sealant tape must be applied to prevent water leakage into the curb area due to blown rain and capillary action.

FIGURE 5C - Cross Section of Roof Curb Installation

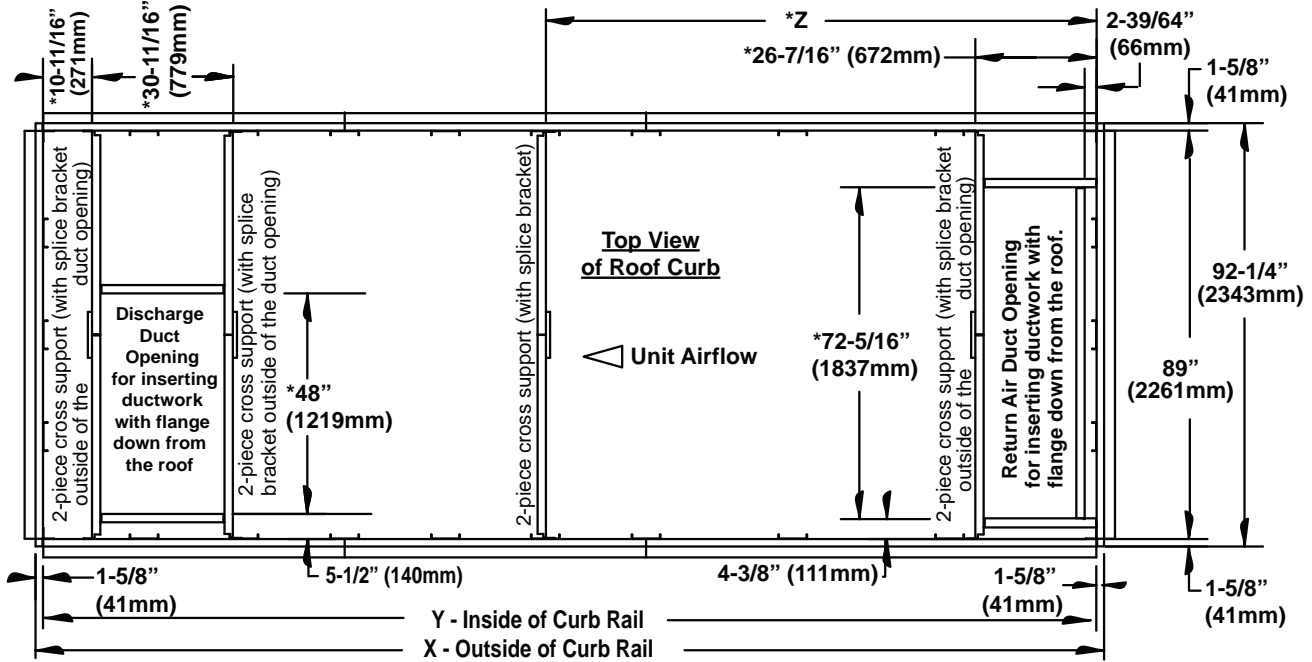


2.0 Roof Curbs for Models RCB, RDB, RDCB, RDDB, RECB, REDB Cabinet Size D (cont'd)

FIGURE 5D - Dimensions - MAPS®III Cabinet D, Option CJ3 Roof Curb (Curb height is 16" / 406mm.)

*Use these dimensions for assembling the roof curb; follow the instructions on pages 14-15.

DO NOT USE these dimensions for sizing ductwork; see FIGURE 5E on page 17.



Top width of mounting rails is 1-5/8" (41mm). Always apply caulking to all mounting surfaces (curb rails, supports, and duct dividers) before placing unit.

Roof Curb Dimensions and Weight by Model and Size

Cabinet D MAPS®III Models and Cooling Sizes	with Gas Heat Section	with Electric Heat Section	Illustration Codes - FIGURE 5D			Approx Curb Wt
			X	Y	Z	
Dimensions - inches						
lbs						
RCB 360, 480, 600, 720	None	None	200-7/16	197-3/16	87-9/16	710
RECB 360, 480, 600, 720		120, 180	200-7/16	197-3/16	87-9/16	710
RDCB 360, 480, 600, 720	500, 600, 700, 800	None	200-7/16	197-3/16	87-9/16	710
	1000, 1200, 1400, 1600		232-7/8	229-5/8	120	740
RDB 418, 444, 538, 564, 602, 658, 684, 722, 804, 842	None	None	200-7/16	197-3/16	87-9/16	710
REDB 418, 444, 538, 564, 602, 658, 684, 722, 804, 842		120, 180	200-7/16	197-3/16	87-9/16	710
RDDB 418, 444, 538, 564, 602, 658, 684, 722, 804, 842	500, 600, 700, 800	None	200-7/16	197-3/16	87-9/16	710
	1000, 1200, 1400, 1600		232-7/8	229-5/8	120	740
Dimensions - mm						
kg						
RCB 360, 480, 600, 720	None	None	5091	5009	2224	322
RECB 360, 480, 600, 720		120, 180	5091	5009	2224	322
RDCB 360, 480, 600, 720	500, 600, 700, 800	None	5091	5009	2224	322
	1000, 1200, 1400, 1600		5915	5833	3048	322
RDB 418, 444, 538, 564, 602, 658, 684, 722, 804, 842	None	None	5091	5009	2224	322
REDB 418, 444, 538, 564, 602, 658, 684, 722, 804, 842		120, 180	5091	5009	2224	322
RDDB 418, 444, 538, 564, 602, 658, 684, 722, 804, 842	500, 600, 700, 800	None	5091	5009	2224	322
	1000, 1200, 1400, 1600		5915	5833	3048	336

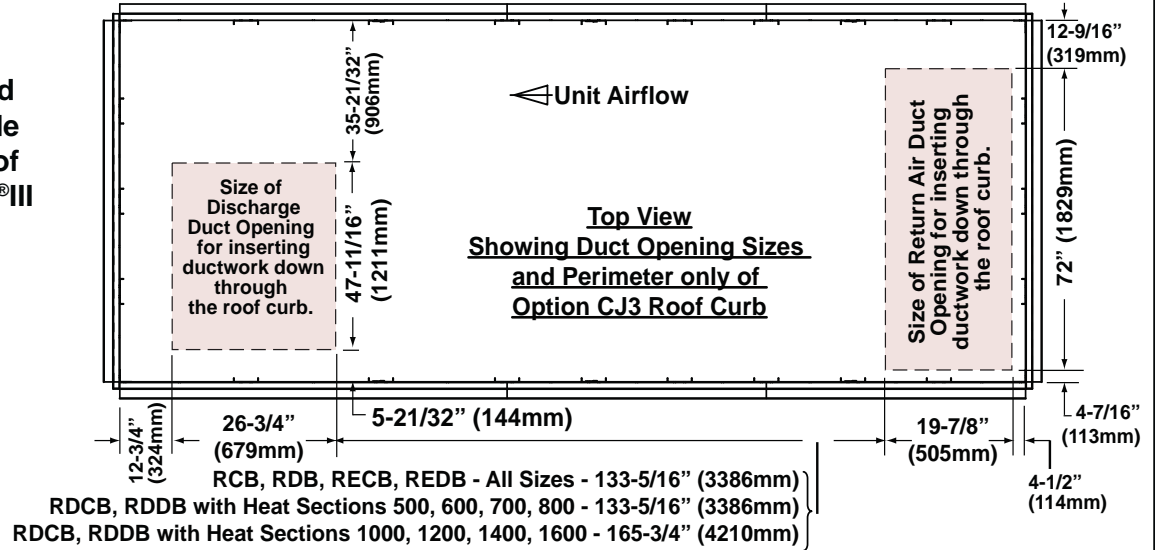
IMPORTANT NOTES: Area enclosed by roof curb must comply with clearance to combustible materials. If the roof is constructed of combustible materials, area within the roof curb must be ventilated, left open, or covered with non-combustible material which has an "R" value of at least 5. If area within curb is left open, higher radiated sound levels may result.

Installing Ductwork with Option CJ3 MAPS®III Cabinet D Roof Curb

The roof curb designed as an option for MAPS® Cabinet D includes return air and discharge duct supports that allow the ductwork to be inserted down through the roof. The sizes of the duct openings are shown in FIGURE 5E. Ductwork should be sized slightly smaller with a minimum 3/4" duct flange that can be attached to all sides of the duct connection. The duct opening is positioned to mate with the heater inlet or discharge. After installing the ductwork, before placing the system on the curb, apply sealant tape to the top surface of the duct opening sides making good butt joints at the corners. (Sealing tape must also be applied to the curb rails.)

See unit installation manual for additional information on ductwork.

**FIGURE 5E -
Duct Opening
Dimensions and
Locations inside
Option CJ3 Roof
Curb for MAPS®III
Cabinet D**



3.0 Roof Curbs for Z Series Model ZQYRA

Components in Option CJ3C, Pkg P/N 260418, for Model ZQYRA

Curb for Model ZQYRA, Option CJ3C, is a 16" (406mm) high, fully enclosed, insulated curb. The roof curb designed for the Z Series ventilation unit includes integral duct connections for supply air and return air **making it very important to know the orientation of the unit when installing the curb.** See the illustrations in **FIGURE 6A** and the component list below. See dimensions in **FIGURE 6D** and orientation in **FIGURE 6C**.

The roof curb is designed for ductwork to be installed from the top prior to setting the unit. If ductwork is installed after the unit, field-fabricated custom connections will be required as the unit does not have duct flanges.

Code	Qty	P/N	Description	Option CJ3C Roof Curb Hardware Bag includes:		
Roof Curb Rail and Cross Support Parts, Codes A, B, C, D, and E are ALWAYS used:				Qty P/N Description		
A	1	260215	Roof Curb Front Side	10	16243	Hex Hd Lag Bolt 5/16 X 1-1/4" lg
B	1	260216	Roof Curb Right End	18	1333	Lockwasher 5/16 In.
C	1	260217	Roof Curb Left End	8	16247	Cap Screw 5/16 X 3/4" lg
D	1	260218	Roof Curb Rear Side	8	1035	Hex Nuts
E	1	259636	Roof Curb Center Support	31	11813	S/M Screw #10-16x1/2 Ab Stalgd
Vertical Duct Support Parts (Codes F, G, H, J, K, L, M) are required if the application has vertical supply and return air. Duct support parts are optional if installation uses the horizontal supply and return air openings.				8	66302	Roll of Sealant Tape, 1/4" x 1-1/4"
F	1	259637	Roof Curb Duct Cross Support (return air)			
G	1	259638	Roof Curb Duct Cross Support (discharge air)			
H	1	259639	Roof Curb Duct Cross Support (return air)			
J	1	259640	Roof Curb Duct Center Support (discharge air)			
K	1	259641	Duct Angle Support (discharge air right end)			
L	1	259642	Duct Angle Support (discharge air front side)			
M	1	259643	Duct Angle Support (return air right end)			

Assembly and Installation Instructions for Z Series Roof Curb

1. Verify that the roof curb components match those listed.
2. Position the roof curb end and side assemblies (**Codes A, B, C, D**) as shown in **FIGURE 6A**. Fasten each corner using lag screws with lockwashers in the top holes and cap screws with lockwashers and nuts in each of the other holes. Install the center support (**Code E**).
Before continuing to Step 3, verify that the airflow orientation is correct.
3. Identify the duct supports that create the integral supply and return air ductwork. **NOTE:** If the system is not using the vertical duct openings, the duct support parts are not required but may be installed.
Position the duct support parts (**Codes F, G, H, J, K, L, M**) as shown in **FIGURE 6A** and attach. Use 1-1/4" lag screws with lockwashers when attaching supports to the top portion of the curb rails with the wood nailer. Use sheetmetal screws in all other locations.

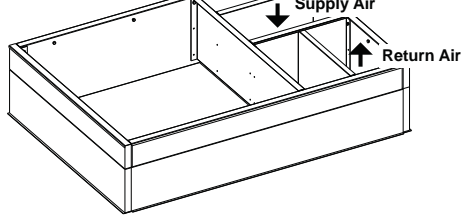
3.0 Roof Curbs for Z Series Model ZQYRA (cont'd)

FIGURE 6A - Layout and Assembly of Roof Curb Components

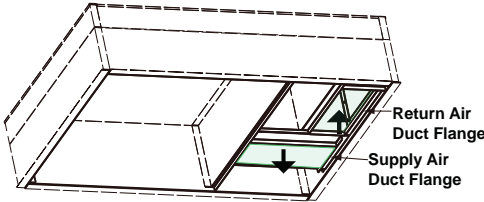
Assembled Views

Slide vertical ductwork down from the top and attach to duct flanges at bottom of curb. See dimensions on page 9.

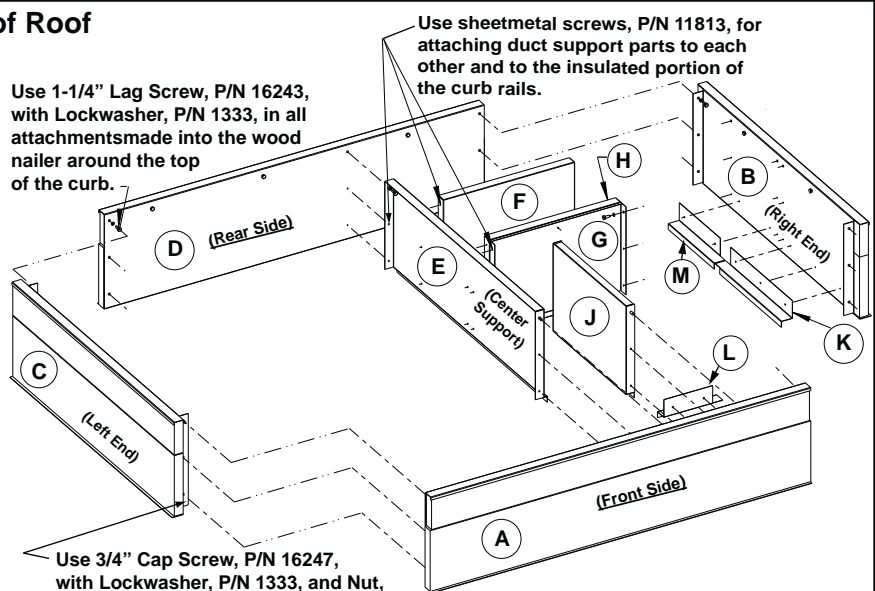
Top View (showing supply and return airflow)



Bottom View (from inside the building showing flanges for ductwork on the openings on the bottom of the curb)



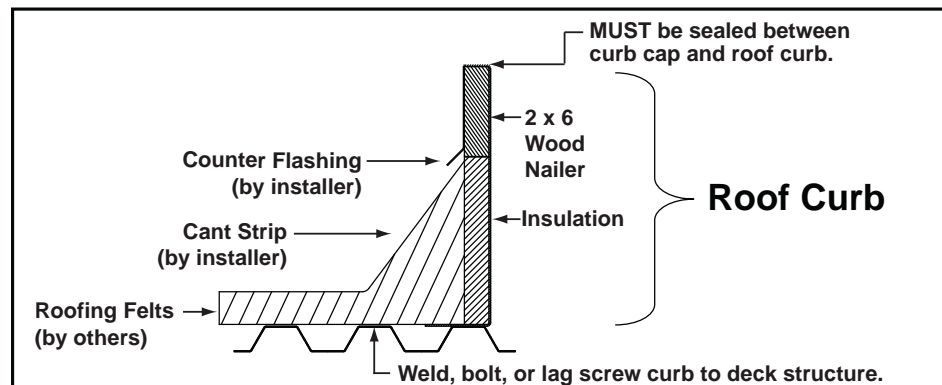
Use 1-1/4" Lag Screw, P/N 16243, with Lockwasher, P/N 1333, in all attachments made into the wood nailer around the top of the curb.



A	260215	D	260218	G	259638	K	259641
B	260216	E	259636	H	259639	L	259642
C	260217	F	259637	J	259640	M	259643

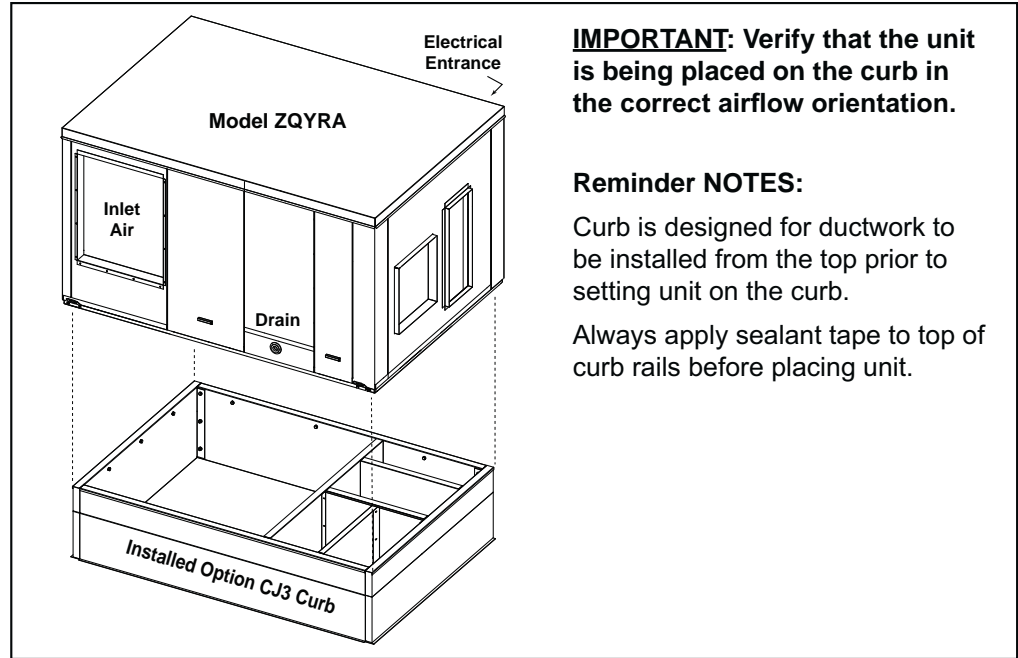
4. Check the roof curb for squareness. The curb must be adjusted so that the diagonal measurements are equal within a tolerance of $\pm 1/8"$ (3mm).
5. Level the roof curb. To ensure a good weatherproof seal between the cabinet curb cap and the roof curb, the curb must be leveled in both directions with no twist end to end. Shim as required and secure curb to the roof deck before installing flashing.

FIGURE 6B - Cross-section of Roof Curb showing Construction Detail



6. Install field-supplied flashing.
7. **Before lifting and placing the unit on the curb, check the following:**
 - The curb is designed for ductwork to be installed from the top BEFORE the unit is in place. Slide the ductwork down into the discharge and return air openings. See dimensions in **FIGURE 6D**. Ductwork should be sized slightly smaller with a minimum 3/4" duct flange that will attach to all sides of the duct connection in the curb. See the unit installation manual for ductwork requirements.
 - Apply 1/4" x 1-1/4" foam sealant tape to both the top surface of the curb rails and the top surface of the duct connection supports, being sure to make good butt joints at all corners. The sealant tape must be applied to the rails to prevent water leakage into the curb area due to blown rain and capillary action.
 - The unit has field convertible (either vertical or horizontal) supply and return air opening locations. Depending on whether the ductwork is vertical or horizontal, verify that the discharge and return air openings being used are uncovered and the openings not being used are covered.
 - When it is time to lift the unit onto the prepared curb (See Rigging and Lifting, Installation Form I-ZQYRA), be sure that all of the above preparations have been made.

FIGURE 6C - Correct Orientation of Ventilation Unit to Roof Curb when using Vertical Ductwork



IMPORTANT: Verify that the unit is being placed on the curb in the correct airflow orientation.

Reminder NOTES:

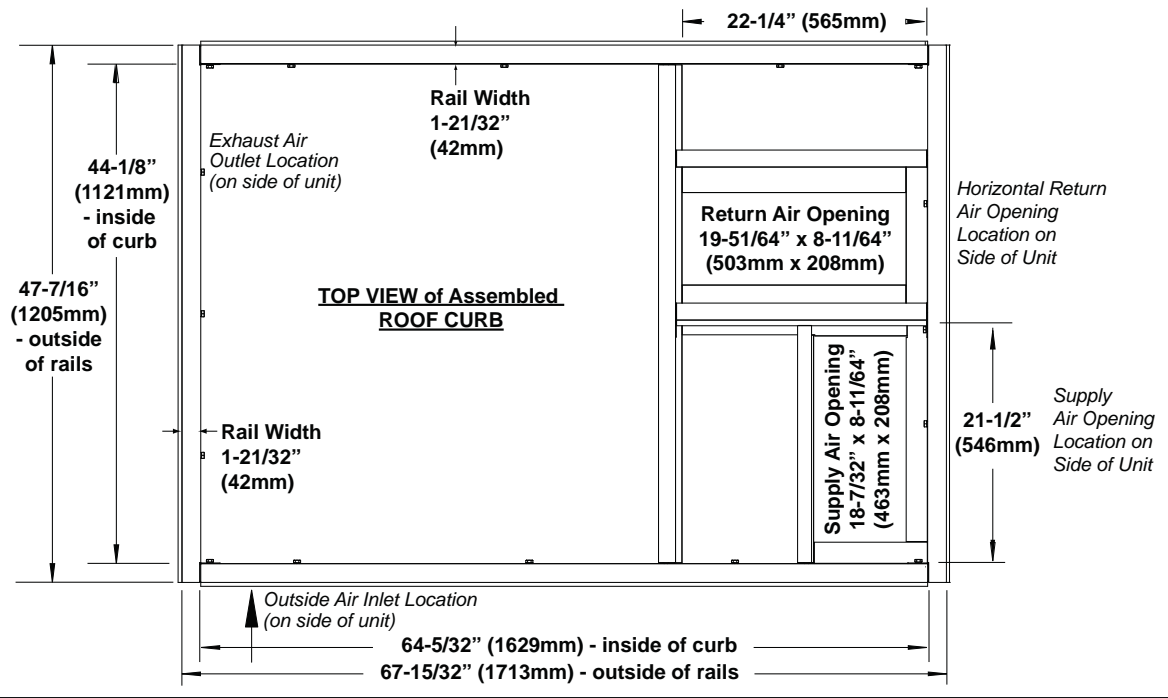
Curb is designed for ductwork to be installed from the top prior to setting unit on the curb.

Always apply sealant tape to top of curb rails before placing unit.

FIGURE 6D - Dimensions - Option CJ3C Roof Curb and Duct Opening Dimensions, Z Series

Slide return air and supply ductwork down from the top and attach to duct flanges.

Approximate weight of roof curb is 196 lbs (89 kg).



4.0 Roof Curbs for Preeva® Models RDH, REH, RHH, and RXH

COMPONENTS of Roof Curb Packages for Preeva® Models

Roof Curb Option Packages for Models RDH, REH, RHH, and RXH include corner assembly hardware and factory-assembled curb pieces. All other installation components are field supplied

NOTE: If a Model RDH or REH replaces a Model Series RGB or RPB unit, curb adapters are available; contact your distributor for information.

CAUTION: Before installation, recheck to be sure that the correct curb has been ordered. Be sure that the curb selected matches the unit ordered. Verify the dimensions of the curb received with the appropriate dimension table (pages 22-24).

4.0 Roof Curbs for Preeva® Models RDH, REH, RHH, and RXH (cont'd)

COMPONENTS of Roof Curb Packages for Preeva® Models (cont'd)

Options CJ8A - CJ8G (right) apply to Models RDH, REH, and RXH without a hot water heat module

Options CJ8H - CJ8P (below) apply to Model RXH with a hot water heat module (Option HW2)

Options CJ8Q - CJ8W (top of page 21) apply to Model RHH

*Model RDH/REH/RHH/RXH configuration may also include an evaporative cooling module. The evaporative cooling module does not affect the length of the roof curb.

** Applies to Model RXH without a hot water heat module

Hardware and Tape Shipped with ALL Preeva® Roof Curbs
 (12) P/N 16247, Cap Screw 5/16"-18x3/4" long; (12) P/N 1035, Hex Nut 5/16"-18; (4) P/N 16243, Lag Screw 5/16"x1" long; (16) P/N 1333, Lockwasher 5/16"; and (1) P/N 66302, 1/4"x1-1/4"x50' Foam Sealant Tape

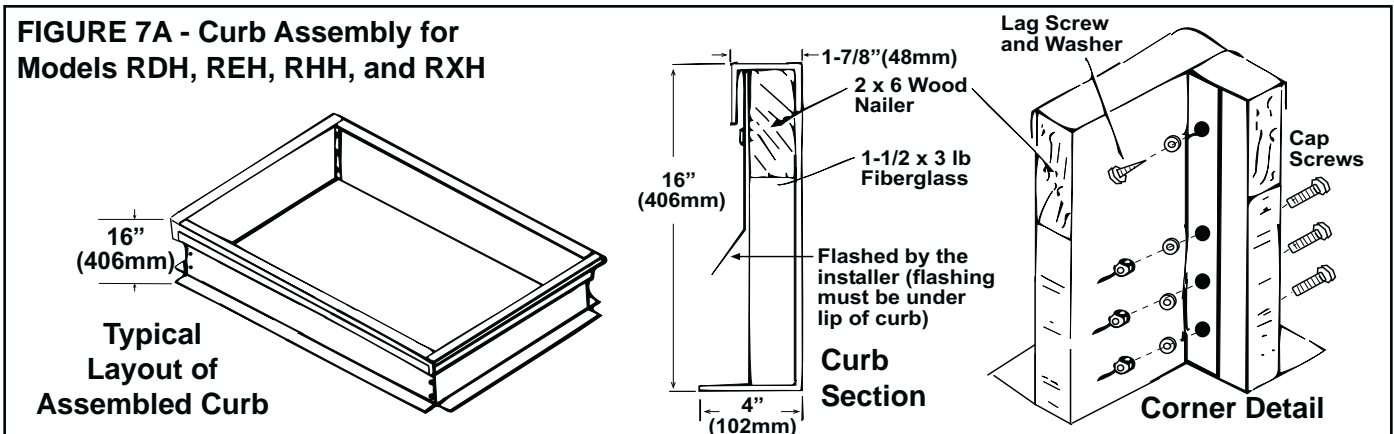
Model RDH, REH, or RXH (without hot water module) Configuration *	Option Code	Model and Size			Pkg P/N	Curb End (Front & Rear) Assy	Curb Side Assy
		RDH	REH	RXH**			
Model RDH or REH Basic Unit ONLY (blower and heat section) AND Model RXH Basic Unit ONLY (blower & plenum only; for RXH with hot water heat module, see CJ8H-P)	CJ8A	75/100	10A/20A/30A	000A	215047	(2) 215037	(2) 215041
		125/150	15B/30B/60B	000B	215048	(2) 215038	(2) 215041
		175/200/225	N/A	000C	215049	(2) 215037	(2) 215042
		250/300	30D/60D/90D/120D	000D	215050	(2) 215039	(2) 215042
		350/400A	40E/80E/120E	000E	215051	(2) 215040	(2) 215042
Basic unit PLUS one optional module -- either Downturn Plenum, OR Mixing Box, OR Cooling Cabinet Module <u>without</u> Reheat (AU5 or AU6)	CJ8B	75/100	10A/20A/30A	000A	215052	(2) 215037	(2) 215043
		125/150	15B/30B/60B	000B	215053	(2) 215038	(2) 215043
		175/200/225	N/A	000C	215054	(2) 215037	(2) 215044
		250/300	30D/60D/90D/120D	000D	215055	(2) 215039	(2) 215044
		350/400A	40E/80E/120E	000E	215056	(2) 215040	(2) 215044
Basic unit PLUS a Cooling Cabinet Module <u>with</u> Reheat (AU7 or AU8)	CJ8E	75/100	10A/20A/30A	000A	223750	(2) 215037	(2) 234940
		125/150	15B/30B/60B	000B	223751	(2) 215038	(2) 234940
		175/200/225	N/A	000C	223752	(2) 215037	(2) 234941
		250/300	30D/60D/90D/120D	000D	223753	(2) 215039	(2) 234941
		350/400A	40E/80E/120E	000E	223754	(2) 215040	(2) 234941
Basic unit PLUS two optional modules -- either Downturn Plenum AND Mixing Box or Cooling Cabinet Module <u>without</u> Reheat (AU5 or AU6), OR Mixing Box AND Cooling Cabinet Module <u>without</u> Reheat (AU5 or AU6)	CJ8C	75/100	10A/20A/30A	000A	215057	(2) 215037	(2) 215045
		125/150	15B/30B/60B	000B	215058	(2) 215038	(2) 215045
		175/200/225	N/A	000C	215059	(2) 215037	(2) 215046
		250/300	30D/60D/90D/120D	000D	215060	(2) 215039	(2) 215046
		350/400A	40E/80E/120E	000E	215061	(2) 215040	(2) 215046
Basic unit PLUS two optional modules -- either Downturn Plenum & Cooling Cabinet Module <u>with</u> Reheat (AU7 or AU8), OR Mixing Box & Cooling Cabinet Module <u>with</u> Reheat (AU7 or AU8)	CJ8F	75/100	10A/20A/30A	000A	223755	(2) 215037	(2) 234942
		125/150	15B/30B/60B	000B	223756	(2) 215038	(2) 234942
		175/200/225	N/A	000C	223757	(2) 215037	(2) 234943
		250/300	30D/60D/90D/120D	000D	223758	(2) 215039	(2) 234943
		350/400A	40E/80E/120E	000E	223759	(2) 215040	(2) 234943
Basic unit PLUS three optional modules -- Downturn Plenum, AND Mixing Box, AND Cooling Cabinet Module <u>without</u> Reheat (AU5 or AU6)	CJ8D	75/100	10A/20A/30A	000A	214421	(2) 215037	(2) 216227
		125/150	15B/30B/60B	000B	214422	(2) 215038	(2) 216227
		175/200/225	N/A	000C	214423	(2) 215037	(2) 216228
		250/300	30D/60D/90D/120D	000D	214424	(2) 215039	(2) 216228
		350/400A	40E/80E/120E	000E	214425	(2) 215040	(2) 216228
Basic unit PLUS three optional modules -- Downturn Plenum, AND Mixing Box, AND Cooling Cabinet Module <u>with</u> Reheat (AU7 or AU8)	CJ8G	75/100	10A/20A/30A	000A	223760	(2) 215037	(2) 234944
		125/150	15B/30B/60B	000B	223761	(2) 215038	(2) 234944
		175/200/225	N/A	000C	223762	(2) 215037	(2) 234945
		250/300	30D/60D/90D/120D	000D	223763	(2) 215039	(2) 234945
		350/400A	40E/80E/120E	000E	223764	(2) 215040	(2) 234945

Model RXH with Option HW2 (hot water heat module) Configuration *	Option	RXH WITH Option HW2	Pkg P/N	Curb End (Front & Rear) Assy	Curb Side Assy
Model RXH <u>with</u> Optional Hot Water Heat Module (HW2) and horizontal discharge	CJ8H	000A	260877	(2) 261546	(2) 261522
		000B	260878	(2) 261547	(2) 261522
		000C	260879	(2) 261546	(2) 261523
		000D	260880	(2) 261548	(2) 261523
		000E	260881	(2) 261549	(2) 261523
Model RXH <u>with</u> Optional Hot Water Heat Module (HW2) PLUS 1 either Downturn Discharge Plenum (AQ5 or AQ8); OR Mixing Box (MXB1) with horizontal discharge; OR Cooling Coil Cabinet <u>without</u> Reheat (AU5 or AU6) with horizontal discharge	CJ8J	000A	260882	(2) 261546	(2) 261524
		000B	260883	(2) 261547	(2) 261524
		000C	260884	(2) 261546	(2) 261525
		000D	260885	(2) 261548	(2) 261525
		000E	260886	(2) 261549	(2) 261525
Model RXH <u>with</u> Optional Hot Water Heat Module (HW2) PLUS 2 - Down Discharge (AQ 5 or AQ8) AND Mixing Box OR Cooling Coil Cabinet <u>without</u> Reheat (AU 5 or 6); OR Mixing Box AND Cooling Coil Cabinet <u>without</u> Reheat (AU 5 or 6) with horizontal discharge	CJ8K	000A	260887	(2) 261546	(2) 261526
		000B	260888	(2) 261547	(2) 261526
		000C	260889	(2) 261546	(2) 261527
		000D	260890	(2) 261548	(2) 261527
		000E	260891	(2) 261549	(2) 261527
Model RXH <u>with</u> Optional Hot Water Heat Module (HW2) PLUS 3 - Down Discharge Plenum (AQ5 or AQ8) AND Mixing Box (MXB1) AND Cooling Coil Cabinet <u>without</u> Reheat (AU5 or AU6)	CJ8L	000A	260892	(2) 261546	(2) 261528
		000B	260893	(2) 261547	(2) 261528
		000C	260894	(2) 261546	(2) 261529
		000D	260895	(2) 261548	(2) 261529
		000E	260896	(2) 261549	(2) 261529
Model RXH <u>with</u> Optional Hot Water Heat Module (HW2) PLUS 1 - Cooling Coil Cabinet <u>with</u> Reheat (AU7) with horizontal discharge	CJ8M	000A	260897	(2) 261546	(2) 261530
		000B	260898	(2) 261547	(2) 261530
		000C	260899	(2) 261546	(2) 261531
		000D	260900	(2) 261548	(2) 261531
		000E	260901	(2) 261549	(2) 261531
Model RXH <u>with</u> Optional Hot Water Heat Module (HW2) PLUS 2 - Cooling Coil Cabinet <u>with</u> Reheat (AU7) AND Down Discharge Plenum (AQ5 or AQ8) OR Mixing Box (MXB1) with horizontal discharge	CJ8N	000A	260902	(2) 261546	(2) 261532
		000B	260903	(2) 261547	(2) 261532
		000C	260904	(2) 261546	(2) 261458
		000D	260905	(2) 261548	(2) 261458
		000E	260906	(2) 261549	(2) 261458
Model RXH <u>with</u> Optional Hot Water Heat Module (HW2) PLUS 3 - Cooling Coil Cabinet <u>with</u> Reheat (AU7) AND Down Discharge Plenum (AQ5 or AQ8) AND Mixing Box (MXB1)	CJ8P	000A	260907	(2) 261546	(2) 261459
		000B	260908	(2) 261547	(2) 261459
		000C	260909	(2) 261546	(2) 261454
		000D	260910	(2) 261548	(2) 261454
		000E	260911	(2) 261549	(2) 261454

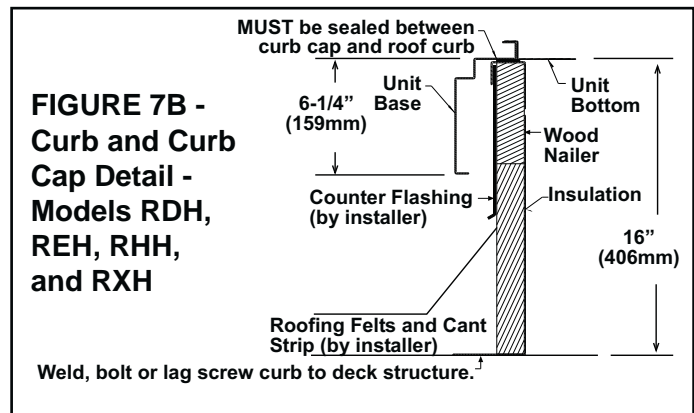
Model RHH Configuration * (NOTE: Model RHH requires a roof curb.)	Option Code	RHH	Pkg P/N	Curb End (Front & Rear) Assy	Curb Side Assy
Model RHH Basic Unit ONLY	CJ8Q	130/180	263910	(2) 261546	(2) 263425
		260	263911	(2) 261548	(2) 263425
		350	263912	(2) 261549	(2) 263425
Model RHH PLUS 1 optional module - either Downturn Discharge Plenum (AQ5 or AQ8); OR Mixing Box (MXB1) with horizontal discharge; OR Cooling Coil Cabinet <u>without</u> Reheat (AU5 or AU6) with horizontal discharge	CJ8R	130/180	263913	(2) 261546	(2) 263426
		260	263914	(2) 261548	(2) 263426
		350	263915	(2) 261549	(2) 263426
Model RHH PLUS 2 optional modules - either Down Discharge (AQ 5 or AQ8) AND Mixing Box OR Cooling Coil Cabinet <u>without</u> Reheat (AU 5 or 6); OR Mixing Box AND Cooling Coil Cabinet <u>without</u> Reheat (AU 5 or 6) with horizontal discharge	CJ8S	130/180	263916	(2) 261546	(2) 263427
		260	263917	(2) 261548	(2) 263427
		350	263918	(2) 261549	(2) 263427
Model RHH PLUS 3 optional modules - either Down Discharge Plenum (AQ5 or AQ8) AND Mixing Box (MXB1) AND Cooling Coil Cabinet <u>without</u> Reheat (AU5 or AU6)	CJ8T	130/180	263919	(2) 261546	(2) 263428
		260	263920	(2) 261548	(2) 263428
		350	263921	(2) 261549	(2) 263428
Model RHH PLUS 1 optional module - Cooling Coil Cabinet <u>with</u> Reheat (AU7) with horizontal discharge	CJ8U	130/180	263922	(2) 261546	(2) 263429
		260	263923	(2) 261548	(2) 263429
		350	263924	(2) 261549	(2) 263429
Model RHH PLUS 2 optional modules - Cooling Coil Cabinet <u>with</u> Reheat (AU7) AND Down Discharge Plenum (AQ5 or AQ8) OR Mixing Box (MXB1) with horizontal discharge	CJ8V	130/180	263925	(2) 261546	(2) 263430
		260	263926	(2) 261548	(2) 263430
		350	263927	(2) 261549	(2) 263430
Model RHH PLUS 3 optional modules - Cooling Coil Cabinet <u>with</u> Reheat (AU7) AND Down Discharge Plenum (AQ5 or AQ8) AND Mixing Box (MXB1)	CJ8W	130/180	263928	(2) 261546	(2) 263431
		260	263929	(2) 261548	(2) 263431
		350	263930	(2) 261549	(2) 263431

Installation Instructions for Roof Curbs for Preeva® Models RDH, REH, RHH, and RXH

1. Refer to the curb assembly drawings (FIGURE 7A) and the curb drawing and dimensions (FIGURE 7B and FIGURE 7C).
2. Position curb end rails and curb side rails as shown in the typical layout and in FIGURE 7A. Join the corners as illustrated in the corner detail.
3. Check the assembly for squareness. The curb must be adjusted so that the diagonal measurements are equal within a tolerance of $\pm 1/8"$ ($\pm 3\text{mm}$).



4. Level the roof curb. To ensure a good weatherproof seal between the unit curb cap and the roof curb, the roof curb must be leveled in both directions with no twist end to end. Shim as required and secure curb to roof deck before proceeding with flashing (See Curb Detail in FIGURE 7B).
5. Install field-supplied flashing.
6. Before placing the unit into position, apply furnished 1/4" x 1-1/4" foam sealant tape to the top surface of the curb, making good butt joints at corners. The unit must be sealed to the curb to prevent water leakage into the curb area due to blown rain and capillary action.



IMPORTANT Installation Notes:

Model RHH - The area enclosed by the roof curb **MUST** be left open.

Models RDH, RXH, REH - The area enclosed by the roof curb must comply with clearance to combustible materials. If roof is constructed of combustible materials, the area within the curb must be either ventilated, left open, or covered with non-combustible material which has an "R" value of at least 5.0. If the area within the curb is left open, higher radiated sound levels may result.

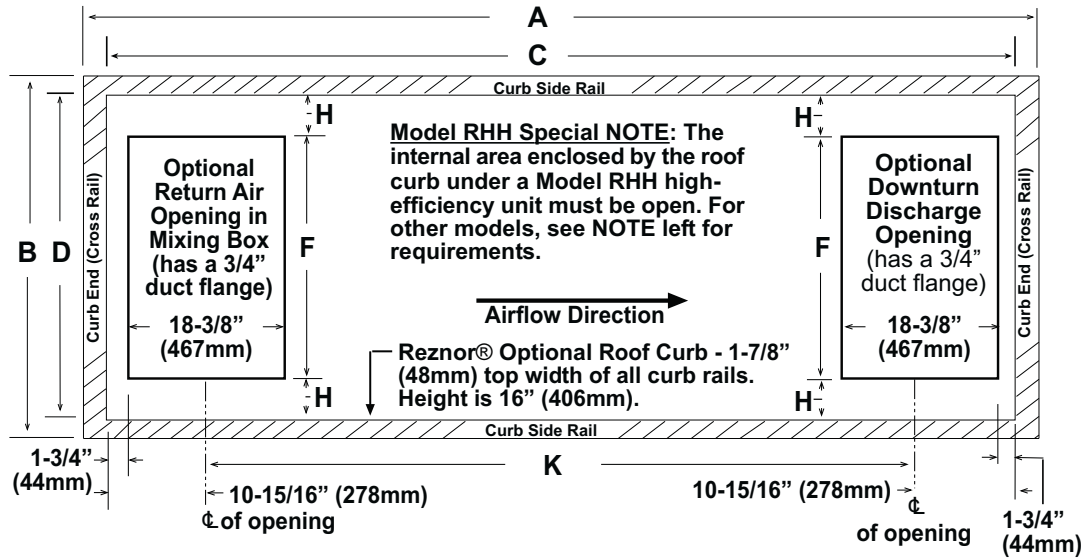
All Models - To minimize sound transfer and prevent air and water leakage, the top surface of the curb **MUST** be sealed.

4.0 Roof Curbs for Preeva® Models RDH, REH, RHH, and RXH (cont'd)

DIMENSIONS

FIGURE 7C - Dimensions - Roof Curb for Preeva® Models RDH, REH, RXH, RHH

IMPORTANT NOTE - Models RDH, REH, and RXH with Hot Water Heat: The area enclosed by the roof curb must comply with clearance to combustible materials. If roof is constructed of combustible materials, the area within the curb must be either ventilated, left open, or covered with **non-combustible** material which has an "R" value of at least 5.0. If the area within the curb is left open, higher radiated sound levels may result.



Roof Curb Dimensions and Weights - Models RDH, REH, & RXH (without hot water heat)

Preeva® Unit Configuration *	Opt CJ	for Model and Size			Inches (±1/8)				mm (±3)				Curb Wt	
		RDH	REH	RXH**	A	B	C	D	A	B	C	D	lbs	kg
Model RDH or REH Basic Unit ONLY (blower and heat section) and Model RXH Basic Unit ONLY (blower and plenum section)	8A	75/100	10A/20A/30A	000A	51-13/16	29-13/16	48-1/16	26-1/16	1316	757	1221	662	90	41
		125/150	15B/30B/60B	000B	51-13/16	39-13/16	48-1/16	36-1/16	1316	1011	1221	916	101	46
		175/200/225	N/A	000C	67-1/2	29-13/16	63-3/4	26-1/16	1715	757	1619	662	107	49
		250/300	30D/60D/90D/120D	000D	67-1/2	46-1/16	63-3/4	42-5/16	1715	1170	1619	1075	125	57
		350/400A	40E/80E/120E	000E	67-1/2	54-1/16	63-3/4	50-5/16	1715	1373	1619	1278	134	61
Basic unit PLUS one optional module -- either Downturn Plenum, OR Mixing Box, OR Cooling Cabinet Module without Reheat (AU5 or AU6)	8B	75/100	10A/20A/30A	000A	79-9/16	29-13/16	75-13/16	26-1/16	2021	757	1926	662	120	54
		125/150	15B/30B/60B	000B	79-9/16	39-13/16	75-13/16	36-1/16	2021	1011	1926	916	131	59
		175/200/225	N/A	000C	95-1/4	29-13/16	91-1/2	26-1/16	2419	757	2324	662	138	63
		250/300	30D/60D/90D/120D	000D	95-1/4	46-1/16	91-1/2	42-5/16	2419	1170	2324	1075	155	70
		350/400A	40E/80E/120E	000E	95-1/4	54-1/16	91-1/2	50-5/16	2419	1373	2324	1278	164	74
Basic unit PLUS a Cooling Cabinet Module with Reheat (AU7 or AU8)	8E	75/100	10A/20A/30A	000A	104-9/16	29-13/16	100-13/16	26-1/16	2656	757	2561	662	149	68
		125/150	15B/30B/60B	000B	104-9/16	39-13/16	100-13/16	36-1/16	2656	1011	2561	916	160	73
		175/200/225	N/A	000C	120-1/4	29-13/16	116-1/2	26-1/16	3054	757	2959	662	167	76
		250/300	30D/60D/90D/120D	000D	120-1/4	46-1/16	116-1/2	42-5/16	3054	1170	2959	1075	184	83
		350/400A	40E/80E/120E	000E	120-1/4	54-1/16	116-1/2	50-5/16	3054	1373	2959	1278	193	88
Basic unit PLUS two optional modules -- either Downturn Plenum AND Mixing Box or Cooling Cabinet Module w/o Reheat (AU 5 or 6), OR Mixing Box AND Cooling Cabinet Module w/o Reheat (AU 5 or 6)	8C	75/100	10A/20A/30A	000A	107-5/16	29-13/16	103-9/16	26-1/16	2726	757	2631	662	151	68
		125/150	15B/30B/60B	000B	107-5/16	39-13/16	103-9/16	36-1/16	2726	1011	2631	916	162	73
		175/200/225	N/A	000C	123	29-13/16	119-1/4	26-1/16	3124	757	3029	662	168	76
		250/300	30D/60D/90D/120D	000D	123	46-1/16	119-1/4	42-5/16	3124	1170	3029	1075	186	84
		350/400A	40E/80E/120E	000E	123	54-1/16	119-1/4	50-5/16	3124	1373	3029	1278	195	88
Basic unit PLUS two optional modules -- either Downturn Plenum AND Cooling Cabinet Module with Reheat (AU7 or AU8), OR Mixing Box AND Cooling Cabinet Module with Reheat (AU7 or AU8)	8F	75/100	10A/20A/30A	000A	132-5/16	29-13/16	128-9/16	26-1/16	3361	757	3266	662	180	82
		125/150	15B/30B/60B	000B	132-5/16	39-13/16	128-9/16	36-1/16	3361	1011	3266	916	191	87
		175/200/225	N/A	000C	148	29-13/16	144-1/4	26-1/16	3759	757	3664	662	197	89
		250/300	30D/60D/90D/120D	000D	148	46-1/16	144-1/4	42-5/16	3759	1170	3664	1075	215	98
		350/400A	40E/80E/120E	000E	148	54-1/16	144-1/4	50-5/16	3759	1373	3664	1278	224	102
Basic unit PLUS three optional modules -- Downturn Plenum, AND Mixing Box, AND Cooling Cabinet Module without Reheat (AU5 or AU6)	8D	75/100	10A/20A/30A	000A	135-1/16	29-13/16	131-5/16	26-1/16	3431	757	3335	662	181	82
		125/150	15B/30B/60B	000B	135-1/16	39-13/16	131-5/16	36-1/16	3431	1011	3335	916	192	87
		175/200/225	N/A	000C	150-3/4	29-13/16	147	26-1/16	3829	757	3734	662	199	90
		250/300	30D/60D/90D/120D	000D	150-3/4	46-1/16	147	42-5/16	3829	1170	3734	1075	216	98
		350/400A	40E/80E/120E	000E	150-3/4	54-1/16	147	50-5/16	3829	1373	3734	1278	225	102
Basic unit PLUS three optional modules -- Downturn Plenum, AND Mixing Box, AND Cooling Cabinet Module with Reheat (AU7 or AU8)	8G	75/100	10A/20A/30A	000A	160-1/16	29-13/16	156-5/16	26-1/16	4066	757	3970	662	210	95
		125/150	15B/30B/60B	000B	160-1/16	39-13/16	156-5/16	36-1/16	4066	1011	3970	916	221	100
		175/200/225	N/A	000C	175-3/4	29-13/16	172	26-1/16	4464	757	4369	662	228	103
		250/300	30D/60D/90D/120D	000D	175-3/4	46-1/16	172	42-5/16	4464	1170	4369	1075	245	111
		350/400A	40E/80E/120E	000E	175-3/4	54-1/16	172	50-5/16	4464	1373	4369	1278	254	115

*Configuration may also include an evaporative cooling module. The evaporative cooling module does not affect the length of the roof curb.

** Dimensions for Model RXH above do not apply to a Model RXH with a hot water heat module. For dimensions with a hot water heat module (Option HW2), see chart on page 23.

Locations of Bottom Duct Connections - FIGURE 7C

RDH Size	REH Size	RXH** Size	Dimensions (inches ±1/8)						Dimensions (mm ±3)					
			F	H	K (w/mixing box & downturn)			F	H	K (w/mixing box & downturn)				
			(with mixing box and/or down discharge)	no cooling coil module	with a cooling coil module		(w/mixing box and/or down discharge)	no cooling coil module	with a cooling coil module					
				no reheat	with reheat			no reheat	with reheat					
75/100	10A/20A/30A	000A	22-7/8	1-9/16	81-5/8	109-3/8	134-3/8	581	40	2073	2778	3413		
125/150	15B/30B/60B	000B	26-1/2	4-3/4	81-5/8	109-3/8	134-3/8	673	121	2073	2778	3413		
175/200/225	N/A	000C	22-7/8	1-9/16	97-3/8	125-1/8	150-1/8	581	40	2473	3178	3813		
250/300	30D/60D/90D/120D	000D	34-3/4	3-3/4	97-3/8	125-1/8	150-1/8	883	96	2473	3178	3813		
350/400A	40E/80E/120E	000E	45-13/16	2-1/4	97-3/8	125-1/8	150-1/8	1164	57	2473	3178	3813		

NOTE: Duct openings should be 1" (25mm) larger than the duct size for installation clearance.

Dimensions and Weights of Optional Roof Curbs for Model RXH with Optional Hot Water Heat Module (Option HW2) - See FIGURE 7C

Configuration * - Model RXH with HW2	Option Code	RXH with Optional Hot Water Heat Module	Inches (±1/8)				mm (±3)				Weight	
			A	B	C	D	A	B	C	D	lbs	kg
Model RXH with Optional Hot Water Heat Module (HW2) and horizontal discharge	CJ8H	000A	68-5/8	29-13/16	64-7/8	26-1/16	1743	757	1648	662	115	52
		000B	68-5/8	39-13/16	64-7/8	36-1/16	1743	1011	1648	916	127	58
		000C	84-3/8	29-13/16	80-5/8	26-1/16	2143	757	2048	662	134	61
		000D	84-3/8	46-1/16	80-5/8	42-5/16	2143	1170	2048	1075	153	69
		000E	84-3/8	54-1/16	80-5/8	50-5/16	2143	1373	2048	1278	153	69
Model RXH with Optional Hot Water Heat Module (HW2) PLUS 1 either Downturn Discharge Plenum (AQ5 or AQ8); OR Mixing Box (MXB1) with horizontal discharge; OR Cooling Coil Cabinet without Reheat (AU5 or AU6) with horizontal discharge	CJ8J	000A	96-3/8	29-13/16	92-5/8	26-1/16	2448	757	2353	662	148	67
		000B	96-3/8	39-13/16	92-5/8	36-1/16	2448	1011	2353	916	160	73
		000C	112-1/8	29-13/16	108-3/8	26-1/16	2848	757	2753	662	167	76
		000D	112-1/8	46-1/16	108-3/8	42-5/16	2848	1170	2753	1075	167	76
		000E	112-1/8	54-1/16	108-3/8	50-5/16	2848	1373	2753	1278	167	76
Model RXH with Optional Hot Water Heat Module (HW2) PLUS 2 - Down Discharge (AQ 5 or AQ8) AND Mixing Box OR Cooling Coil Cabinet without Reheat (AU 5 or 6); OR Mixing Box AND Cooling Coil Cabinet without Reheat (AU 5 or 6) with horizontal discharge	CJ8K	000A	124-1/8	29-13/16	120-3/8	26-1/16	3153	757	3058	662	189	86
		000B	124-1/8	39-13/16	120-3/8	36-1/16	3153	1011	3058	916	201	91
		000C	139-7/8	29-13/16	136-1/8	26-1/16	3553	757	3458	662	208	94
		000D	139-7/8	46-1/16	136-1/8	42-5/16	3553	1170	3458	1075	227	103
		000E	139-7/8	54-1/16	136-1/8	50-5/16	3553	1373	3458	1278	237	108
Model RXH with Optional Hot Water Heat Module (HW2) PLUS 3 - Down Discharge Plenum (AQ5 or AQ8) AND Mixing Box (MXB1) AND Cooling Coil Cabinet without Reheat (AU5 or AU6)	CJ8L	000A	151-3/4	29-13/16	148	26-1/16	3854	757	3759	662	185	84
		000B	151-3/4	39-13/16	148	36-1/16	3854	1011	3759	916	197	89
		000C	167-3/8	29-13/16	163-5/8	26-1/16	4251	757	4156	662	204	93
		000D	167-3/8	46-1/16	163-5/8	42-5/16	4251	1170	4156	1075	224	102
		000E	167-3/8	54-1/16	163-5/8	50-5/16	4251	1373	4156	1278	234	106
Model RXH with Optional Hot Water Heat Module (HW2) PLUS 1 - Cooling Coil Cabinet with Reheat (AU7) with horizontal discharge	CJ8M	000A	121-1/4	29-13/16	117-1/2	26-1/16	3080	757	2985	662	222	101
		000B	121-1/4	39-13/16	117-1/2	36-1/16	3080	1011	2985	916	234	106
		000C	136-7/8	29-13/16	133-1/8	26-1/16	3477	757	3381	662	241	109
		000D	136-7/8	46-1/16	133-1/8	42-5/16	3477	1170	3381	1075	261	118
		000E	136-7/8	54-1/16	133-1/8	50-5/16	3477	1373	3381	1278	271	123
Model RXH with Optional Hot Water Heat Module (HW2) PLUS 2 - Cooling Coil Cabinet with Reheat (AU7) AND Down Discharge Plenum (AQ5 or AQ8) OR Mixing Box (MXB1) with horizontal discharge	CJ8N	000A	148-7/8	29-13/16	145-1/8	26-1/16	3781	757	3686	662	219	99
		000B	148-7/8	39-13/16	145-1/8	36-1/16	3781	1011	3686	916	231	105
		000C	164-5/8	29-13/16	160-7/8	26-1/16	4181	757	4086	662	238	108
		000D	164-5/8	46-1/16	160-7/8	42-5/16	4181	1170	4086	1075	258	117
		000E	164-5/8	54-1/16	160-7/8	50-5/16	4181	1373	4086	1278	267	121
Model RXH with Optional Hot Water Heat Module (HW2) PLUS 3 - Cooling Coil Cabinet with Reheat (AU7) AND Down Discharge Plenum (AQ5 or AQ8) AND Mixing Box (MXB1)	CJ8P	000A	176-3/4	29-13/16	173	26-1/16	4489	757	4394	662	252	114
		000B	176-3/4	39-13/16	173	36-1/16	4489	1011	4394	916	265	120
		000C	192-3/8	29-13/16	188-5/8	26-1/16	4886	757	4791	662	271	123
		000D	192-3/8	46-1/16	188-5/8	42-5/16	4886	1170	4791	1075	291	132
		000E	192-3/8	54-1/16	188-5/8	50-5/16	4886	1373	4791	1278	301	137

*Configuration may also include an evaporative cooling module. The evaporative cooling module does not affect the length of the roof curb.

Dimensions for Locations of Bottom Duct Connections as shown in FIGURE 7C for Model RXH with a hot water heat module

Model RXH (with hot water heat module)	Dimensions (inches ±1/8)						Dimensions (mm ±3)					
	F	H	K (with mixing box & downturn)			F	H	K (with mixing box & downturn)				
	(with mixing box and/or down discharge)	no cooling coil module	with a cooling coil module		(with mixing box and/or down discharge)	no cooling coil module	with a cooling coil module					
			no reheat	with reheat			no reheat	with reheat				
000A	22-7/8	1-9/16	98-7/16	126-3/16	151-3/16	581	40	2500	3205	3840		
000B	26-1/2	4-3/4	98-7/16	126-3/16	151-3/16	673	121	2500	3205	3840		
000C	22-7/8	1-9/16	114-3/16	141-15/16	166-15/16	581	40	2900	3605	4240		
000D	34-3/4	3-3/4	114-3/16	141-15/16	166-15/16	883	96	2900	3605	4240		
000E	45-13/16	2-1/4	114-3/16	141-15/16	166-15/16	1164	57	2900	3605	4240		

NOTE: Duct openings should be 1" (25mm) larger than the duct size for installation clearance.

4.0 Roof Curbs for Preeva® Models RDH, REH, RHH, and RXH (cont'd)

DIMENSIONS (cont'd)

Dimensions and Weights of Optional Roof Curbs for Model RHH (See FIGURE 7C.)

Model RHH Configuration*	Option Code	RHH	Inches (±1/8)				mm (±3)				Weight	
			A	B	C	D	A	B	C	D	lbs	kg
Model RHH and horizontal discharge	CJ8Q	130/180	77-1/2	29-13/16	73-3/4	26-1/16	1,969	757	1,873	662		
		260	77-1/2	46-1/16	73-3/4	42-5/16	1,969	1,170	1,873	1,075		
		350	77-1/2	54-1/16	73-3/4	50-5/16	1,969	1,373	1,873	1,278		
Model RHH PLUS 1 either Downturn Discharge Plenum (AQ5 or AQ8); OR Mixing Box (MXB1) with horizontal discharge; OR Cooling Coil Cabinet without Reheat (AU5 or AU6) with horizontal discharge	CJ8R	130/180	105-1/4	29-13/16	101-1/2	26-1/16	2,673	757	2,578	662		
		260	105-1/4	46-1/16	101-1/2	42-5/16	2,673	1,170	2,578	1,075		
		350	105-1/4	54-1/16	101-1/2	50-5/16	2,673	1,373	2,578	1,278		
Model RHH PLUS 2 - Down Discharge (AQ 5 or AQ8) AND Mixing Box OR Cooling Coil Cabinet without Reheat (AU 5 or 6); OR Mixing Box AND Cooling Coil Cabinet without Reheat (AU 5 or 6) with horizontal discharge	CJ8S	130/180	133	29-13/16	129-1/4	26-1/16	3,378	757	3,283	662		
		260	133	46-1/16	129-1/4	42-5/16	3,378	1,170	3,283	1,075		
		350	133	54-1/16	129-1/4	50-5/16	3,378	1,373	3,283	1,278		
Model RHH PLUS 3 - Down Discharge Plenum (AQ5 or AQ8) AND Mixing Box (MXB1) AND Cooling Coil Cabinet without Reheat (AU5 or AU6)	CJ8T	130/180	160-3/4	29-13/16	157	26-1/16	4,083	757	3,988	662		
		260	160-3/4	46-1/16	157	42-5/16	4,083	1,170	3,988	1,075		
		350	160-3/4	54-1/16	157	50-5/16	4,083	1,373	3,988	1,278		
Model RHH PLUS 1 - Cooling Coil Cabinet with Reheat (AU7) with horizontal discharge	CJ8U	130/180	130-1/4	29-13/16	126-1/2	26-1/16	3,308	757	3,213	662		
		260	130-1/4	46-1/16	126-1/2	42-5/16	3,308	1,170	3,213	1,075		
		350	130-1/4	54-1/16	126-1/2	50-5/16	3,308	1,373	3,213	1,278		
Model RHH PLUS 2 - Cooling Coil Cabinet with Reheat (AU7) AND Down Discharge Plenum (AQ5 or AQ8) OR Mixing Box (MXB1) with horizontal discharge	CJ8V	130/180	158	29-13/16	154-1/4	26-1/16	4,013	757	3,918	662		
		260	158	46-1/16	154-1/4	42-5/16	4,013	1,170	3,918	1,075		
		350	158	54-1/16	154-1/4	50-5/16	4,013	1,373	3,918	1,278		
Model RHH PLUS 3 - Cooling Coil Cabinet with Reheat (AU7) AND Down Discharge Plenum (AQ5 or AQ8) AND Mixing Box (MXB1)	CJ8W	130/180	185-3/4	29-13/16	182	26-1/16	4,718	757	4,623	662		
		260	185-3/4	46-1/16	182	42-5/16	4,718	1,170	4,623	1,075		
		350	185-3/4	54-1/16	182	50-5/16	4,718	1,373	4,623	1,278		

*Configuration may also include an evaporative cooling module. The evaporative cooling module does not affect the length of the roof curb.

Dimensions for Locations of Bottom Duct Connections as shown in FIGURE 7C for Model RHH

Model RHH	Dimensions (inches ±1/8)					Dimensions (mm ±3)				
	F	H	K (with mixing box & downturn)			F	H	K (with mixing box & downturn)		
			(with mixing box and/or down discharge)	no cooling coil module	with a cooling coil module no reheat with reheat			(with mixing box and/or down discharge)	no cooling coil module	with a cooling coil module no reheat with reheat
130/180	22-7/8	1-9/16	107-3/8	135-1/8	160-1/8	581	40	2727	3432	4067
260	34-3/4	3-3/4	107-3/8	135-1/8	160-1/8	883	96	2727	3432	4067
350	45-13/16	2-1/4	107-3/8	135-1/8	160-1/8	1164	57	2727	3432	4067

IMPORTANT NOTE: To ensure proper operation of a Model RHH, the opening through the roof must be the same area as the inside dimension of the roof curb. **Inside area of the roof curb under a Model RHH must be open.**

5.0 Roof Curbs for Model Series ADF, ADFH; RPB, RPBL, RPDBL; and Blower Cabinet Model RBL - Options CJ1, CJ2, CJ3, CJ4, CJ5, CJ6, CJ7

CAUTION: Before installation, recheck to be sure that the correct curb has been ordered. Be sure that the curb selected matches the unit ordered. Verify the dimensions of the curb received with the appropriate dimension table.

5.1 Curb Installation Instructions for all Models in Section 5.0

1. Refer to the curb assembly drawings (FIGURE 8A) and the curb drawing and dimensions for the model being installed [See ADF and ADFH, pages 28-29; RPB, RPBL, and RBL, pages 24-27; RPDBL, page 28].
2. Position curb end rails and curb side rails as shown in the typical layout and in the illustration for each model type.

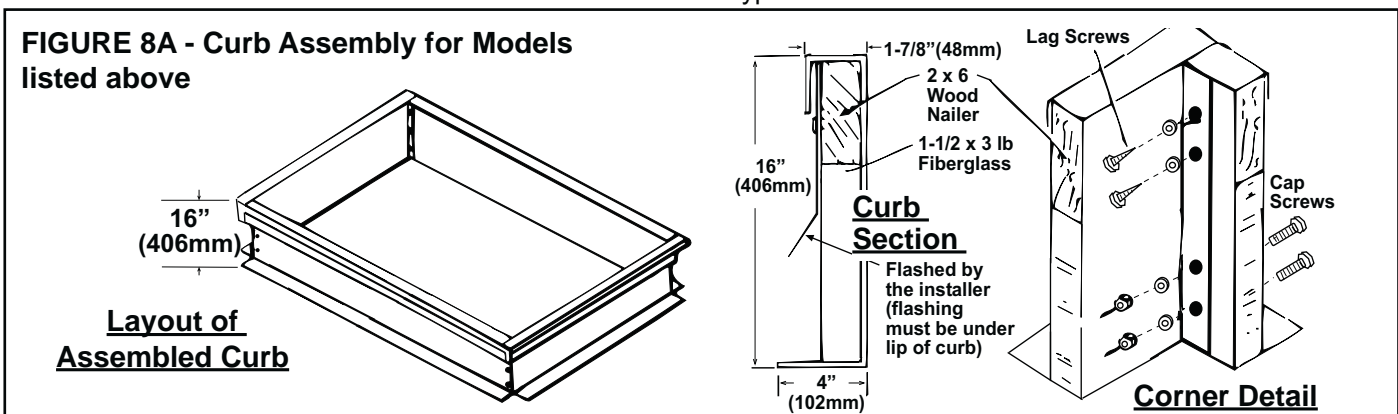


FIGURE 8A (cont'd) - Splicing Detail (Splicing is required when the curb sections are two piece.)

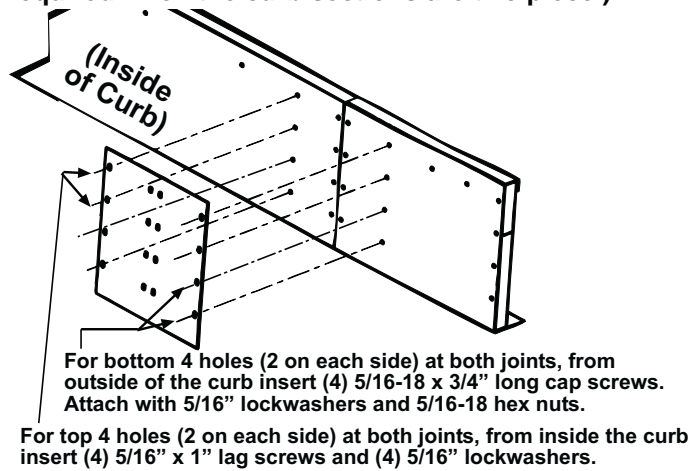
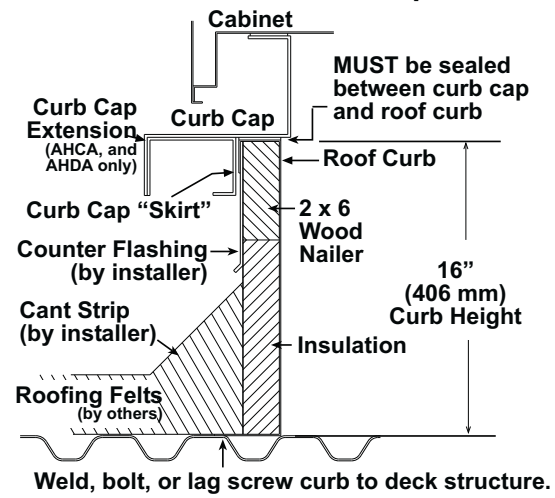


FIGURE 8B - Curb and Curb Cap Detail



If there are two side pieces to a side, fasten them with splice plates and hardware as illustrated in the splicing detail drawing in **FIGURE 8A**. Join the corners as illustrated in the corner detail.

3. Check the assembly for squareness. The curb must be adjusted so that the diagonal measurements are equal within a tolerance of $\pm 1/8"$ ($\pm 3\text{mm}$).
4. Level the roof curb. To ensure a good weatherproof seal between the unit curb cap and the roof curb, the roof curb must be leveled in both directions with no twist end to end. Shim as required and secure curb to roof deck before proceeding with flashing.
5. Install field-supplied flashing.
6. Before placing the unit into position, apply furnished 1/4" x 1-1/4" foam sealant tape to the top surface of the curb, making good butt joints at corners. The unit must be sealed to the curb to prevent water leakage into the curb area due to blown rain and capillary action.

5.2 Roof Curb Packages for Model Series RPB & RPBL and Blower Cabinet Model RBL -

Follow the roof curb installation instructions in Paragraph 5.1.

COMPONENTS of Roof Curb Packages

Roof curb option selection depends on downturn and/or cooling coil cabinet options selected with the heating system or blower cabinet. Roof curb option packages include assembly hardware and four or six factory-assembled curb pieces. Installation hardware and supplies are field-supplied.

Hardware Shipped with the Roof Curb

Corner Hardware & Sealant Tape:	Splicing Plate & Hardware (for curbs with 4 curb side assemblies):
(8) P/N 16247, Cap Screw 5/16"-18x3/4" lg;	(2) P/N 107260, Splice Plate;
(8) P/N 1035, Hex Nut 5/16" - 18;	(4) P/N 16243, Lag Screw 5/16"x1" lg;
(8) P/N 16243, Lag Screw 5/16"x1" lg;	(16) P/N 1333, Lockwasher 5/16";
(16) P/N 1333, Lockwasher 5/16";	(12) P/N 16247, Cap Screw 5/16"-18x3/4" lg;
(1) P/N 66302, 1/4"x1-1/4"x50' Sealant Tape	(12) P/N 1035, Hex Nut 5/16" - 18

Roof Curb Option	for RPB Series *	Pkg P/N	Curb Side Assy	Curb Front & Back Assy
CJ1 - blower and heater only	125	105215	(2)105221	(2)104652
	150, 175	105216	(2)105221	(2)104653
	200, 225	105217	(2)105221	(2)104654
	250, 300	105218	(2)105221	(2)104655
	350	105219	(2)105221	(2)104656
CJ2 - with downturn plenum AQ5 or AQ8	400	105220	(2)105221	(2)104657
	125	104673	(2)104649	(2)104652
	150, 175	104674	(2)104649	(2)104653
	200, 225	104675	(2)104649	(2)104654
	250, 300	104676	(2)104649	(2)104655
	350	104677	(2)104649	(2)104656
400	104678	(2)104649	(2)104657	

Roof Curb Option for Model RBL Blower Cabinet	Pkg P/N	Curb Side Assy	Curb Front & Back Assy
CJ1 - standard cabinet with horizontal discharge	111944	(2)111940	(2)104657
CJ2 - with downturn plenum AQ5 or AQ8	111381	(2)111385	(2)104657

Roof Curb Option	RPBL	Pkg P/N	Curb Side Assy	Curb Front & Back Assy
CJ1 - blower and heater only	400	107251	(2)107257	(2)104657
	500, 600	107252	(2)107258	(2)104655
	700	107253	(2)107258	(2)104656
	800	107254	(2)107258	(2)104657
	1050	107255	(2)107259	(2)104656
	1200	107256	(2)107259	(2)104657
CJ2 - with downturn plenum AQ5 or AQ8	400	107270	(2)107256	(2)104657
	500, 600	107271	(2)107257	(2)104655
	700	107272	(2)107257	(2)104656
	800	107273	(2)107257	(2)104657
	1050	107274	(2)107258	(2)104656
	1200	107275	(2)107258	(2)104657

*Also applies to these Models with prefix "H".

5.0 Roof Curbs for Model Series ADF, ADFH; RPB, RPBL, RPDBL; and Blower Cabinet Model RBL (cont'd)

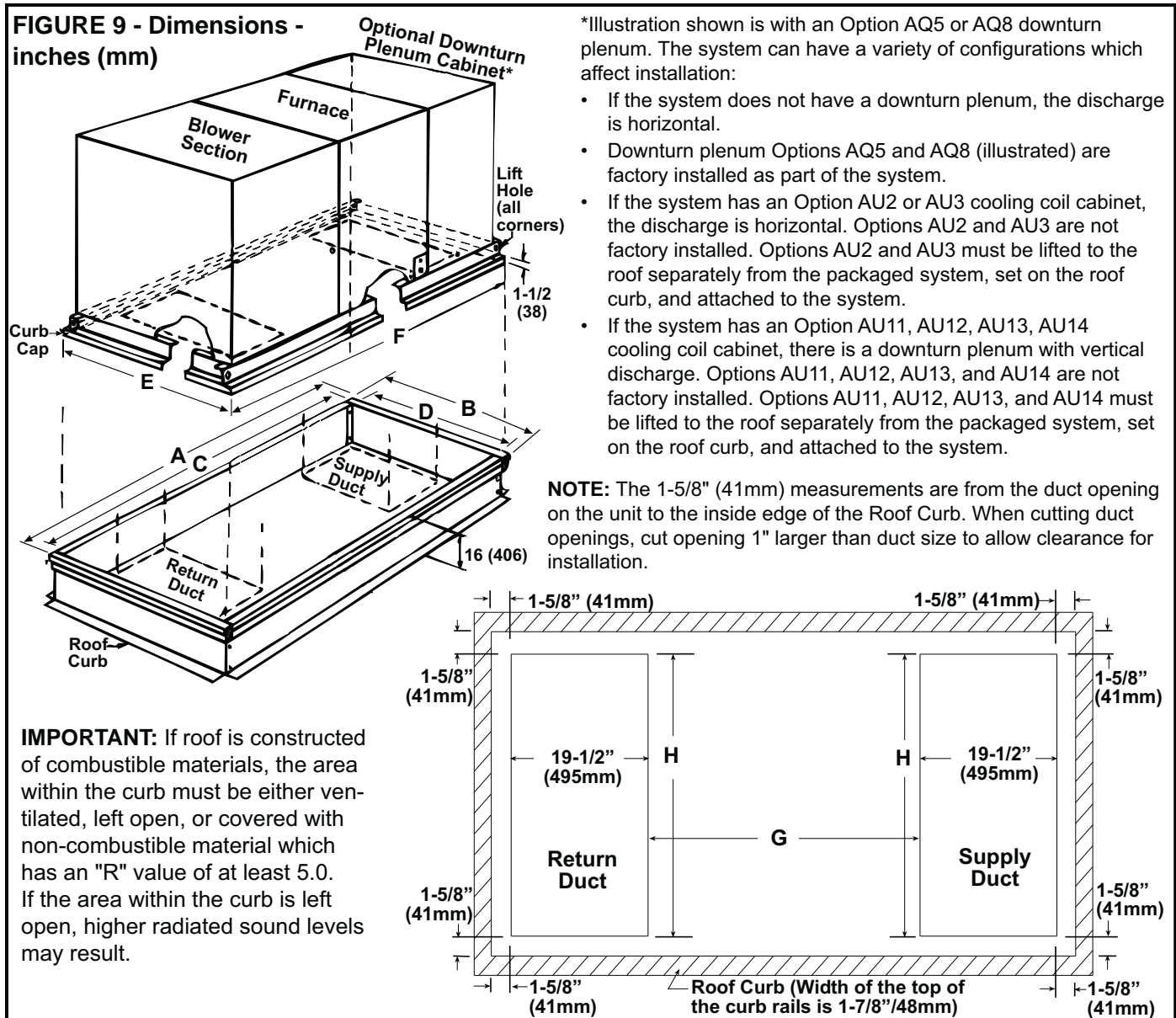
5.2 Roof Curb Packages for Model Series RPB and RPBL and Blower Cabinet Model RBL (cont'd) - Follow the roof curb installation instructions in Paragraph 5.1.

COMPONENTS of Roof Curb Packages (cont'd)

Roof Curb Option	RPBL	Pkg P/N	Curb Side Assy	Curb Front & Back Assy
CJ4 - with cooling coil cabinet AU2 or AU3	400	174102	(2)104649	(2)104657
			(2)172867	
	500, 600	174103	(2)104649	(2)104655
			(2)172868	
	700	174104	(2)104649	(2)104656
			(2)172869	
	800	174105	(2)104649	(2)104657
			(2)172870	
	1050	174106	(2)104649	(2)104656
			(2)172871	
	1200	174107	(2)104649	(2)104657
			(2)172872	

Roof Curb Option	RPBL	Pkg P/N	Curb Side Assy	Curb Front & Back Assy
CJ5 - with cooling coil cabinet AU11, AU12, AU13 or AU14 with downturn plenum	400	174108	(2)104649	(2)104657
			(2)172879	
	500, 600	174109	(2)104649	(2)104655
			(2)172880	
	700	174110	(2)104649	(2)104656
			(2)172881	
	800	174111	(2)104649	(2)104657
			(2)172882	
	1050	174112	(2)173606	(2)104656
			(2)172883	
	1200	174113	(2)173606	(2)104657
			(2)172884	

DIMENSIONS



Roof Curb Dimensions for Model Series RPB - Refer to FIGURE 9.
Dimensions (inches ± 1/4")

Size	125	150, 175	200, 225	250, 300	350	400
Option CJ1 - Roof Curb for RPB*						
A	60-5/8	60-5/8	60-5/8	60-5/8	60-5/8	60-5/8
B	24-5/16	29-13/16	35-5/16	43-9/16	49-1/16	54-1/2
C**	56-15/16	56-15/16	56-15/16	56-15/16	56-15/16	56-15/16
D**	20-9/16	26-1/16	31-9/16	39-13/16	45-5/16	50-13/16
E	25-7/8	31-3/8	36-7/8	45-1/8	50-5/8	56-1/8
F	62-5/32	62-5/32	62-5/32	62-5/32	62-5/32	62-5/32
Wt	90 lbs	95 lbs	101 lbs	111 lbs	117 lbs	123 lbs
Option CJ2 - Roof Curb for RPB* with Factory-Installed Downturn Plenum Option AQ5 or AQ8						
A	84-9/16	84-9/16	84-9/16	84-9/16	84-9/16	84-9/16
B	24-5/16	29-13/16	35-5/16	43-9/16	49-1/16	54-1/2
C**	80-13/16	80-13/16	80-13/16	80-13/16	80-13/16	80-13/16
D**	20-9/16	26-1/16	31-9/16	39-13/16	45-5/16	50-13/16
E	25-7/8	31-3/8	36-7/8	45-1/8	50-5/8	56-1/8
F	86-1/16	86-1/16	86-1/16	86-1/16	86-1/16	86-1/16
G	38-5/8	38-5/8	38-5/8	38-5/8	38-5/8	38-5/8
Wt	112 lbs	118 lbs	124 lbs	133 lbs	139 lbs	145 lbs

Dimensions (mm ± 6)

Size	125	150, 175	200, 225	250, 300	350	400
Option CJ1 - Roof Curb for RPB*						
A	1540	1540	1540	1540	1540	1540
B	618	757	897	1106	1246	1384
C**	1446	1446	1446	1446	1446	1446
D**	522	662	802	1011	1151	1291
E	658	797	937	1146	1286	1426
F	1579	1579	1579	1579	1579	1579
Wt	41 kg	43 kg	46 kg	50 kg	53 kg	56 kg
Option CJ2 - Roof Curb for RPB* with Factory-Installed Downturn Plenum Option AQ5 or AQ8						
A	2148	2148	2148	2148	2148	2148
B	618	757	897	1106	1246	1384
C**	2053	2053	2053	2053	2053	2053
D**	522	662	802	1011	1151	1291
E	658	797	937	1146	1286	1426
F	2186	2186	2186	2186	2186	2186
G	981	981	981	981	981	981
Wt	51 kg	54 kg	56 kg	60 kg	63 kg	66 kg

* Applies to Models with prefix "H"
 ** C and D are roof opening dimensions.

Roof Curb Dimensions for Model Series RPBL - Refer to FIGURE 9.
Dimensions (inches ± 1/4")

Size	400	500/600	700	800	1050	1200
Option CJ1 - Roof Curb for *RPBL						
A	82-1/4	108-1/4	108-1/4	108-1/4	134-1/4	134-1/4
B	54-1/2	43-9/16	49-1/16	54-1/2	49-1/16	54-1/2
C**	78-1/2	104-1/2	104-1/2	104-1/2	130-1/2	130-1/2
D**	50-13/16	39-13/16	45-5/16	50-13/16	45-5/16	50-13/16
E	56-1/8	45-1/8	50-5/8	56-1/8	50-5/8	56-1/8
F	83-3/4	109-3/4	109-3/4	109-3/4	135-3/4	135-3/4
Wt	150 lbs	167 lbs	173 lbs	179 lbs	202 lbs	208 lbs
Option CJ2 - Roof Curb for *RPBL with Factory-Installed Downturn Plenum Option AQ5 or AQ8						
A	106-1/4	132-1/4	132-1/4	132-1/4	158-1/4	158-1/4
B	54-1/2	43-9/16	49-1/16	54-1/2	49-1/16	54-1/2
C**	102-1/2	128-1/2	128-1/2	128-1/2	154-1/2	154-1/2
D**	50-13/16	39-13/16	45-5/16	50-13/16	45-5/16	50-13/16
E	56-1/8	45-1/8	50-5/8	56-1/8	50-5/8	56-1/8
F	107-3/4	133-3/4	133-3/4	133-3/4	159-3/4	159-3/4
G	60-5/16	86-5/16	86-5/16	86-5/16	112-5/16	112-5/16
Wt	177 lbs	193 lbs	199 lbs	205 lbs	228 lbs	234 lbs
Option CJ4 - Roof Curb for *RPBL with Field-Installed*** Cooling Coil Cabinet Option AU2 or AU3						
A	150-1/4	165-1/4	170-3/4	176-1/4	196-3/4	202-1/4
B	54-1/2	43-9/16	49-1/16	54-1/2	49-1/16	54-1/2
C**	146-1/2	161-1/2	167	172-1/2	193	198-1/2
D**	50-13/16	39-13/16	45-5/16	50-13/16	45-5/16	50-13/16
E	56-1/8	45-1/8	50-5/8	56-1/8	50-5/8	56-1/8
F	151-1/32	166-1/32	171-17/32	177-1/32	197-17/32	203-1/32
Wt	227 lbs	231 lbs	243 lbs	255 lbs	271 lbs	282 lbs
Option CJ5 - Roof Curb for *RPBL with Field-Installed*** Cooling Coil Cabinet with Downturn Plenum Cabinet Option AU11, AU12, AU13 or AU14						
A	174-1/4	189-1/4	194-3/4	200-1/4	220-3/4	226-1/4
B	54-1/2	43-9/16	49-1/16	54-1/2	49-1/16	54-1/2
C**	170-1/2	185-1/2	191	196-1/2	217	222-1/2
D**	50-13/16	39-13/16	45-5/16	50-13/16	45-5/16	50-13/16
E	56-1/8	45-1/8	50-5/8	56-1/8	50-5/8	56-1/8
F	170-1/32	190-1/32	195-17/32	201-1/32	221-17/32	227-1/32
G	127-17/32	142-17/32	148-1/32	153-17/32	174-1/32	179-17/32
Wt	253 lbs	257 lbs	269 lbs	280 lbs	296 lbs	308 lbs

Dimensions (mm ± 6)

Size	400	500/600	700	800	1050	1200
Option CJ1 - Roof Curb for *RPBL - mm						
A	2089	2750	2750	2750	3410	3410
B	1384	1106	1246	1384	1246	1384
C**	1994	2654	2654	2654	3315	3315
D**	1291	1011	1151	1291	1151	1291
E	1426	1146	1286	1426	1286	1426
F	2127	2788	2788	2788	3448	3448
Wt	68 kg	76 kg	78 kg	81 kg	92 kg	94 kg
Option CJ2 - Roof Curb for *RPBL with Factory-Installed Downturn Plenum Option AQ5 or AQ8						
A	2699	3359	3359	3359	4020	4020
B	1384	1106	1246	1384	1246	1384
C**	2604	3264	3264	3264	3924	3924
D**	1291	1011	1151	1291	1151	1291
E	1426	1146	1286	1426	1286	1426
F	2637	3397	3397	3397	4058	4058
G	1532	2192	2192	2192	2853	2853
Wt	80 kg	88 kg	90 kg	93 kg	103 kg	106 kg
Option CJ4 - Roof Curb for *RPBL with Field-Installed*** Cooling Coil Cabinet Option AU2 or AU3 - mm						
A	3816	4197	4337	4477	4997	5137
B	1384	1106	1246	1384	1246	1384
C**	3721	4102	4242	4382	4902	5042
D**	1291	1011	1151	1291	1151	1291
E	1426	1146	1286	1426	1286	1426
F	3836	4217	4357	4497	5017	5157
Wt	103 kg	105 kg	110 kg	116 kg	123 kg	128 kg
Option CJ5 - Roof Curb for *RPBL with Field-Installed*** Cooling Coil Cabinet with Downturn Plenum Cabinet Option AU11, AU12, AU13 or AU14 - mm						
A	4426	4807	4947	5086	5607	5747
B	1384	1106	1246	1384	1246	1384
C**	4331	4712	4851	4991	5512	5652
D**	1291	1011	1151	1291	1151	1291
E	1426	1146	1286	1426	1286	1426
F	4319	4827	4966	5106	5627	5767
G	3239	3620	3760	3900	4420	4560
Wt	115 kg	117 kg	122 kg	127 kg	134 kg	140 kg

* Applies to Models with prefix "H".
 ** C and D are roof opening dimensions.
 *** Field installed means that the cooling coil cabinet with or without the downturn is factory assembled and shipped separately. The roof curb is sized to accommodate the complete length of the system. The shipped-separate cooling coil cabinet with or without a downturn must be lifted to the roof separately from the packaged system, set on the roof curb, and attached to the furnace section. **NOTE:** If the coil is field supplied, install the coil in the cabinet before lifting.

Roof Curb Dimensions for Blower Cabinet Model RBL - Refer to FIGURE 9.
Dimensions (inches ± 1/4")

	Model RBL	
	Option CJ1 - for Standard Cabinet	Option CJ2 - with Downturn Plenum Option AQ5 or AQ8
A	59-1/16"	82-1/16"
B	53-9/16"	53-9/16"
C**	55-5/16"	78-5/16"
D**	49-13/16"	49-13/16"
E	55-15/16"	55-15/16"
F	60-7/16"	83-1/2"
G	N/A	36-5/16"
Wt	120 lbs	145 lbs

Dimensions (mm ± 6)

	Model RBL	
	Option CJ1 - or Standard Cabinet	Option CJ2 - with Downturn Plenum Option AQ5 or AQ8
A	1500 mm	2084 mm
B	1360 mm	1360 mm
C**	1405 mm	1989 mm
D**	1265 mm	1265 mm
E	1421 mm	1421 mm
F	1535 mm	2121 mm
G	N/A	922 mm
Wt	54 kg	66 kg

Duct Width - Dimension H, FIGURE 9.

Packaged System Models		Blower Cabinet	H	
RPB	RPBL		inches	mm
125			17-3/8	441
150, 175			22-7/8	581
200, 225			28-3/8	721
250, 300	500, 600		36-5/8	930
350	700, 1050		42-1/8	1070
400	400, 800, 1200	RBL	47-5/8	1210

5.0 Roof Curbs for Model Series ADF, ADFH; RPB, RPBL, RPDBL; and Blower Cabinet Model RBL (cont'd)

5.3 Roof Curb Packages for Model Series RPDBL - Follow the roof curb installation instructions in Paragraph 5.1,

Roof Curb Option Packages include corner and splicing hardware and the required number of factory-assembled curb pieces. All other components required for installation are field supplied.

IMPORTANT NOTE: Model RPDBL systems have a construction steel base and are not designed to set on a roof curb. If the installation requires a roof curb, either the factory option or a field-supplied curb, the unit order must specify that the system be built to go on a roof curb.

Roof Curb Packages for Model RPDBL

RPDBL	800	1000	1200	1400	1600
Roof Curb Pkg P/N without Downturn	177171	177177	177179	177181	177181
Roof Curb Pkg P/N with Downturn	177172	177178	177180	177182	177182

DIMENSIONS - RPDBL

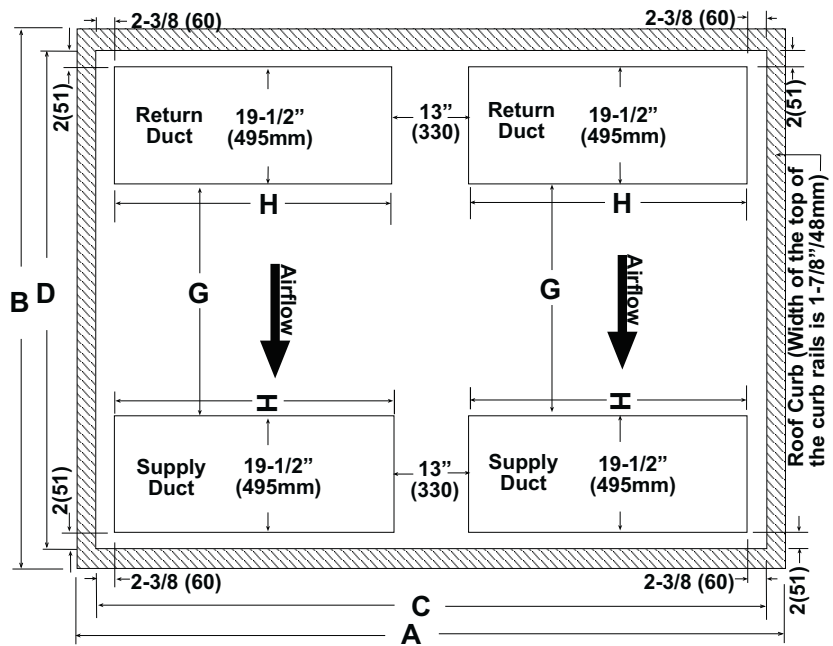
FIGURE 10 - Roof Curb and Bottom Outlet Dimensions - Model RPDBL

*C and D are roof opening dimensions

Size	800	1000/1200	1400	1600
Option CJ1 - Roof Curb for RPDBL				
Dimensions (inches ± 1/4")				
A	116-1/4	94-1/4	105-1/4	116-1/4
B	82-9/16	108-9/16	108-9/16	108-9/16
C*	113	91	102	113
D*	79-5/16	105-5/16	105-5/16	105-5/16
Wt	300 lbs	334 lbs	346 lbs	358 lbs

Size	800	1000/1200	1400	1600
Option CJ1 - Roof Curb for RPDBL				
Dimensions (mm ± 6)				
A	2953	2394	2673	2953
B	2097	2757	2757	2757
C*	2870	2311	2591	2870
D*	2015	2675	2675	2675
Wt	136 kg	152 kg	157 kg	162 kg

Size	800	1000/1200	1400	1600
Option CJ2 - Curb for RPDBL with Factory-Installed Downturn Plenums, Opt AQ5 or AQ8				
Dimensions (inches ± 1/4")				
A	116-1/4	94-1/4	105-1/4	116-1/4
B	106-9/16	132-9/16	132-9/16	132-9/16
C*	113	91	102	113
D*	103-5/16	129-5/16	129-5/16	129-5/16
G	60-5/16	86-5/16	86-5/16	86-5/16
H	47-5/8	36-5/8	42-1/8	47-5/8
Wt	354 lbs	386 lbs	398 lbs	410 lbs
Dimensions (mm ± 6)				
A	2953	2445	2673	2953
B	2707	3367	3367	3367
C*	2870	2311	2591	2870
D*	2624	3285	3285	3285
G	1532	2192	2192	2192
H	1210	930	1070	1210
Wt	161 kg	175 kg	181 kg	186 kg



5.4 Roof Curb Packages for Model Series ADF and ADFH - Follow the roof curb installation instructions in Paragraph 5.1.

Roof Curb Option Packages include hardware and four factory-assembled curb pieces. All other components required for installation are field supplied.

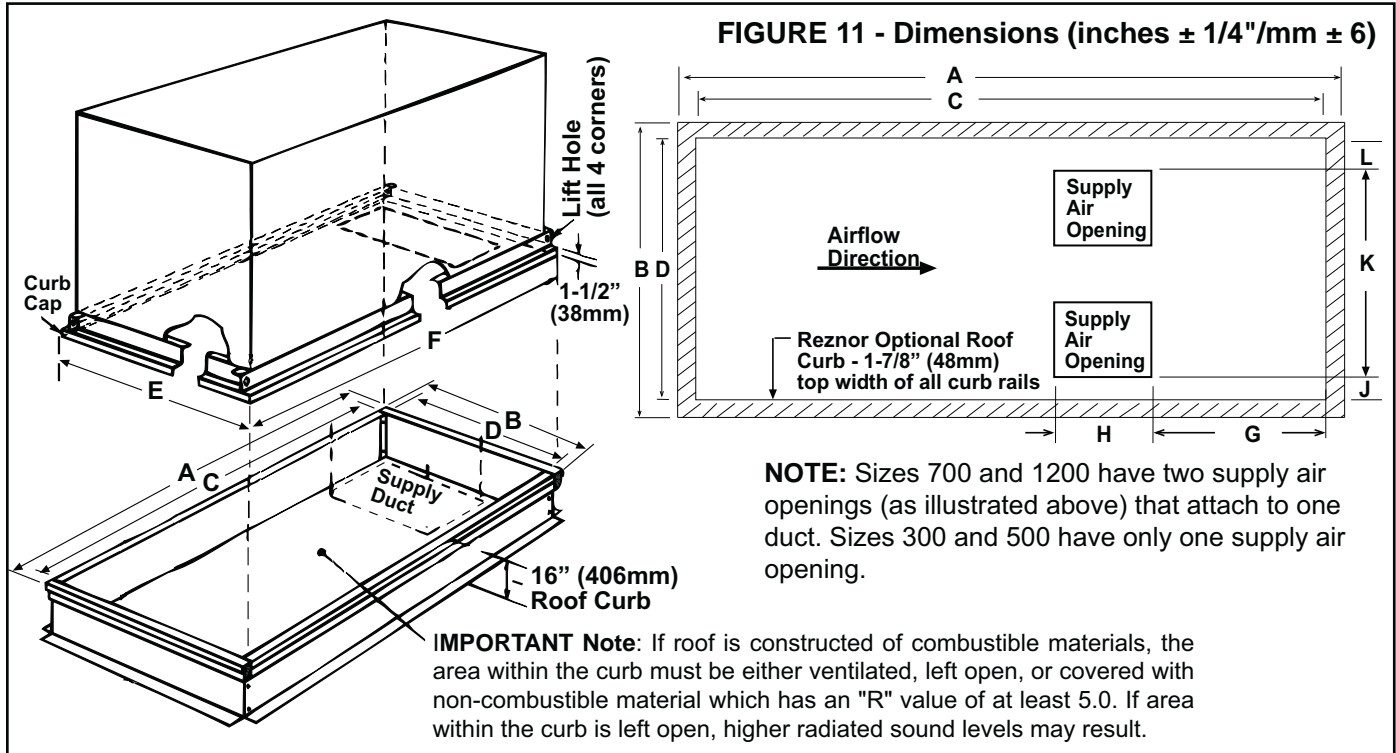
Roof Curb Package Components for Models ADF/ADFH

Roof Curb Option	ADF Series	Pkg P/N	Curb Side Assy	Curb Front and Back Assy
CJ3 - horizontal discharge	300	104674	(2)104649	(2)104653
	500	104676	(2)104649	(2)104655
	700/ 1200	124029	(2)124026	(2)104657
CJ6 - vertical discharge	300	104674	(2)104649	(2)104653
	500	104676	(2)104649	(2)104655
	700/ 1200	124033	(2)124030	(2)104657
CJ7 - vertical discharge	300	104674	(2)107258	(2)104653
	500	104676	(2)107258	(2)104655
	700/ 1200	124033	(2)124030	(2)104657

Hardware & Tape Shipped with Roof Curb for Models ADF/ADFH

(8) P/N 16247, Cap Screw 5/16"-18 x 3/4" long; **(8) P/N 1035**, Hex Nut 5/16" - 18; **(8) P/N 16243**, Lag Screw 5/16" x 1" long; **(16) P/N 1333**, Lockwasher 5/16"; and **(1) P/N 66302**, 1/4" x 1-1/4" x 50' Foam Sealant Tape

DIMENSIONS - Models ADF and ADFH



Size	300	500	700	1200
Dimensions (inches)				
Option CJ3 - ADF with Horizontal Discharge				
A	84-9/16	84-9/16	90-7/8	90-7/8
B	29-13/16	43-9/16	54-1/2	54-1/2
C*	80-13/16	80-13/16	87-1/8	87-1/8
D*	26-1/16	39-13/16	50-13/16	50-13/16
E	31-1/16	44-13/16	55-13/16	55-13/16
F	85-13/16	85-13/16	92-1/8	92-1/8
Wt	118 lbs	133 lbs	152 lbs	152 lbs
Option CJ6 - Model ADF with Vertical Discharge Option AQ1 or AQ3				
A	84-9/16	84-9/16	115-25/32	115-25/32
B	29-13/16	43-9/16	54-1/2	54-1/2
C*	80-13/16	80-13/16	112-1/32	112-1/32
D*	26-1/16	39-13/16	50-13/16	50-13/16
E	31-1/16	44-13/16	55-13/16	55-13/16
F	85-13/16	85-13/16	117-1/32	117-1/32
Wt	118 lbs	133 lbs	152 lbs	152 lbs
Option CJ7 - ADFH with Vertical Discharge				
A	108-1/4	108-1/4	115-25/32	115-25/32
B	29-13/16	43-9/16	54-1/2	54-1/2
C*	104-1/2	104-1/2	112-1/32	112-1/32
D*	26-1/16	39-13/16	50-13/16	50-13/16
E	31-1/16	44-13/16	55-13/16	55-13/16
F	109-1/2	109-1/2	117-1/32	117-1/32
Wt	142 lbs	157 lbs	176 lbs	176 lbs

Size	300	500	700	1200
Dimensions (mm)				
Option CJ3 - ADF with Horizontal Discharge				
A	2148	2148	2308	2308
B	757	1106	1384	1384
C*	2053	2053	2213	2213
D*	662	1011	1291	1291
E	789	1138	1418	1418
F	2180	2180	2340	2340
Wt	54 kg	60 kg	69 kg	69 kg
Option CJ6 - ADF with Vertical Discharge Option AQ1 or AQ3				
A	2148	2148	2941	2941
B	757	1106	1384	1384
C*	2053	2053	2846	2846
D*	662	1011	1291	1291
E	789	1138	1418	1418
F	2180	2180	2973	2973
Wt	54 kg	60 kg	69 kg	69 kg
Option CJ7 - ADFH with Vertical Discharge				
A	2750	2750	2941	2941
B	757	1106	1384	1384
C*	2654	2654	2846	2846
D*	662	1011	1291	1291
E	789	1138	1418	1418
F	2781	2781	2973	2973
Wt	64 kg	71 kg	80 kg	80 kg

Model	G	H	J	K	L
	Dimensions (inches)				
ADF-300	4-25/32	13-13/16	5-5/8	15-15/16	4-1/2
ADF-500	4-25/32	16-1/16	19-1/4	14-13/16	5-3/4
ADF-700	28-19/32	13-13/16	5-5/16	40-5/16	5-5/16
ADF-1200	28-19/32	16-1/16	5-5/16	40-5/16	5-5/16
ADFH-300	28-19/32	13-13/16	5-5/8	15-15/16	4-1/2
ADFH-500	28-19/32	16-1/16	19-1/4	14-13/16	5-3/4
ADFH-700	28-19/32	13-13/16	5-5/16	40-5/16	5-5/16
ADFH-1200	28-19/32	16-1/16	5-5/16	40-5/16	5-5/16
Model	Dimensions (mm)				
ADF-300	121	351	143	405	114
ADF-500	121	408	489	376	146
ADF-700	726	351	135	1024	135
ADF-1200	726	408	135	1024	135
ADFH-300	726	351	143	405	114
ADFH-500	726	408	489	376	146
ADFH-700	726	351	135	1024	135
ADFH-1200	726	408	135	1024	135

*C and D are roof opening dimensions.

6.0 Roof Curbs for Model Series RDF

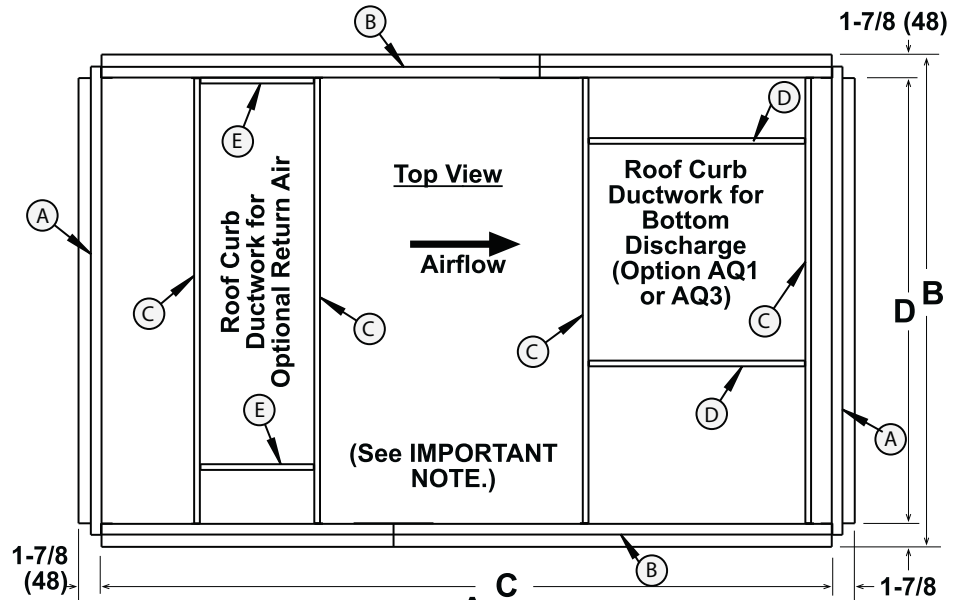
Roof Curb Option Packages include hardware and four factory-assembled curb pieces. All other components required for installation are field supplied.

Components and Dimensions - RDF Roof Curbs

Roof Curb Option CJ3 for Model RDF Series 3 (See ITEMS in FIGURE 12A.)						
RDF Series 3	Pkg P/N	ITEM B - Curb Side Assy	ITEM A - Curb Front and Back (End) Assy	ITEMS C, D, and E - Curb Dividers for Ductwork		
RDF-1-20,1-40,1-50,1-65	204368	(2) 204365	(2) 104655	(4) 203803	(2) 203804	(2) 203806
RDF-2-80 and 2-120	203980	(2) 204366	(2) 111508	(4) 203977	(2) 203978	(2) 203979
RDF-3-180 and 3-260	204370	(2) 204369	(2) 111512	(4) 203662	(2) 203663	(2) 203664

FIGURE 12A - Roof Curb Components and Dimensions for Model RDF

IMPORTANT NOTE: Area enclosed by roof curb must comply with clearance to combustible materials. If the roof is constructed of combustible materials, area within the roof curb must be ventilated; left open, or covered with non-combustible material which has an "R" value of at least 5. If area within curb is left open, higher radiated sound levels may result. CxD is area within curb.



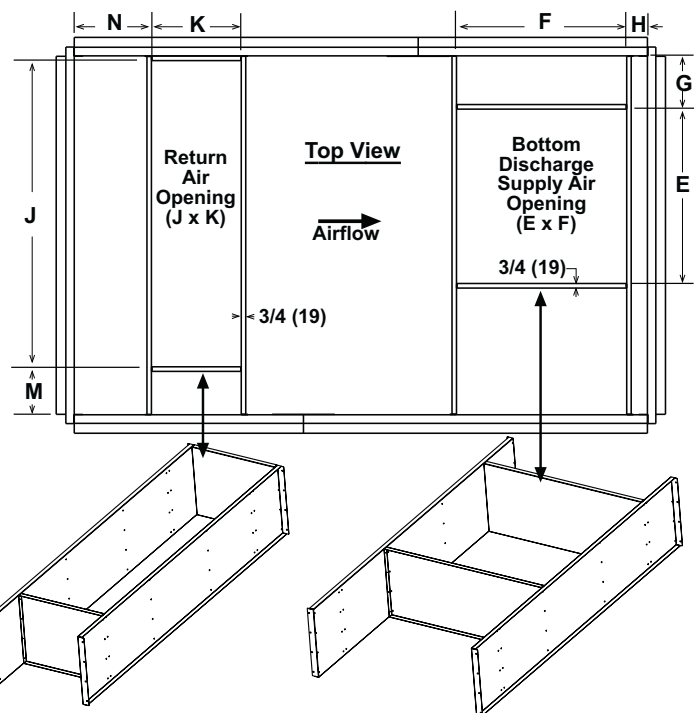
RDF	1-20,1-40,1-50,1-65	2-80 and 2-120	3-180 and 3-260
Option CJ3 for Model RDF Series 3			
	inches	mm	inches
A	84-5/8	2149	84-5/8
B	43-5/8	1108	67-9/16
C	80-7/8	2054	80-7/8
D	39-7/8	1013	63-13/16

NOTES: C x D are roof opening dimensions if curb area is fully open. A x B are outside dimensions of curb rails.

FIGURE 12B - Model RDF Series 3 - Roof Curb Duct Opening Dimensions

NOTES:

- Drawings are not proportional for all sizes.
- 3/4" (19mm) measurement is the width of the dividers where the roof curb mates with the heater. Top surfaces must be sealed.
- When cutting duct openings in the roof, cut opening 1" (25mm) larger than duct size opening for installation clearance.
- G, H, M, N are dimensions from duct opening in the curb to the inside edge of the roof curb.



Assembled Dividers for Optional Return Air Ductwork in the Roof Curb
Field-supplied ductwork may be either "dropped in" from the top resting on the duct flanges or be attached to the duct flange from the bottom.

Roof Curb Duct Opening Dimensions for RDF Series 3

RDF	E		F		G		H		J		K		M		N		Weight	
	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	lbs	kg
-1	23-11/32	593	20-1/8	511	5	127	10-1/4	260	25-1/2	648	11-1/2	292	11-15/32	291	11-1/32	280	133	60
-2	28-13/32	722	28-11/32	720	13-15/32	342	7	178	54-11/16	1389	17-23/32	432	8	203	11-3/32	282	167	76
-3	38	965	38	965	11-19/32	294	4-5/8	117	66-3/4	1695	20-1/16	510	10-15/32	266	17-1/4	438	236	107

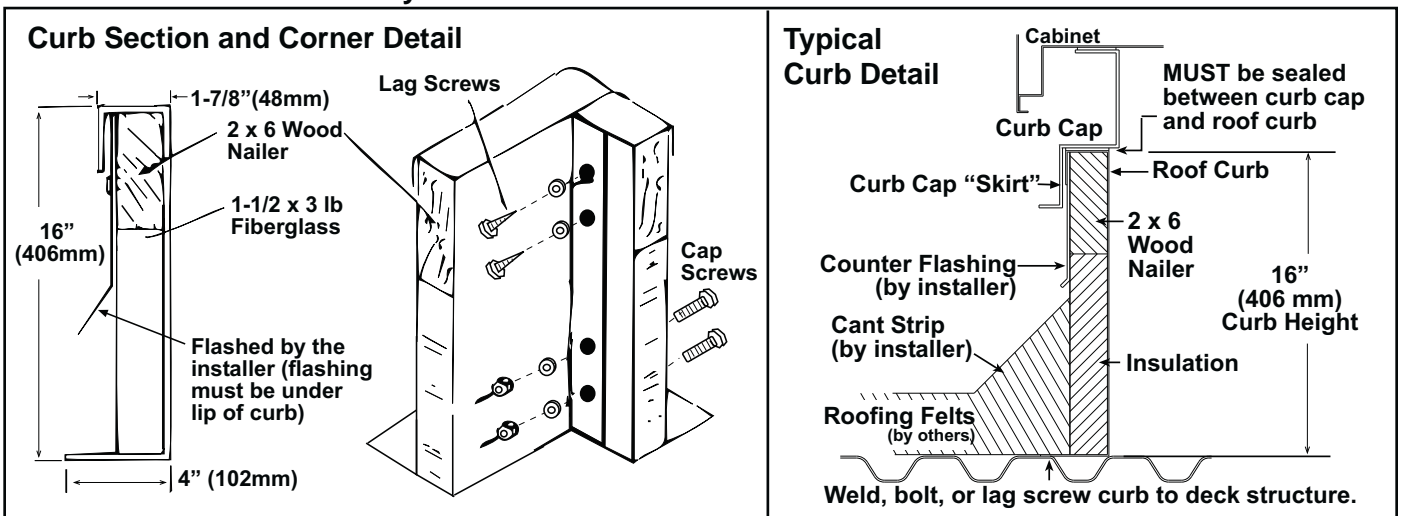
Roof Curb Hardware and Tape	For Top 2 Corner "Holes"	(8) 5/16"x1" Lag Screws, P/N 16243; (8) 5/16" Lockwasher, P/N 1333
	For Bottom 2 Corner "Holes"	(8) 5/16"x3/4" Hex Head Cap Screw, P/N 16247; (8) 5/16" Lockwasher, P/N 1333; (8) 5/16-18 Hex Nut, P/N 1035
	Hardware to Assemble & Attach Dividers (64) #10 Sheetmetal Screws, P/N 11813	
	(1) 1/4" x 1-1/4" x 50ft Foam Sealant Tape, P/N 66302	

INSTALLATION INSTRUCTIONS for Model RDF Roof Curbs

CAUTION: Before installation, recheck to be sure that the correct curb has been ordered. Be sure that the curb selected matches the unit ordered. Verify the dimensions of the curb received with the dimensions on page 30.

1. If installing an Option CJ3 curb, follow these instructions. If installing a field-supplied curb, the curb must be level and must be sealed to the system curb cap.
2. Position the roof curb end assemblies and side assemblies as shown in the drawing in **FIGURE 12A, (Items A and B)**. Fasten with bolts and lag screws as illustrated in the corner detail (**FIGURE 12C**).
3. If the system has a bottom discharge and/or a return air inlet, use the sheetmetal screws to sub-assemble the dividers (**Items C, D, and E**). Refer to the dimensions in **FIGURE 12B** to appropriately position the roof curb dividers to create the needed duct opening flanges. Attach the dividers to the roof curb with sheetmetal screws. **NOTE:** If the system does not have a bottom discharge and/or a return air opening, the dividers for an opening that is not going to be used may be installed but are not required.
4. Check the assembly for squareness. The curb must be adjusted so that the diagonal measurements are equal within a tolerance of $\pm 1/8"$ (± 3 mm).
5. Level the roof curb. To ensure a good weatherproof seal between the unit curb cap and the roof curb, the roof curb must be leveled in both directions with no twist end to end. Shim as required and secure curb to the roof deck before installing flashing (See Curb Detail in **FIGURE 12C**).
6. Install field-supplied flashing.
7. **Before placing the unit on the curb:**
 - If ductwork is being installed from the top, slide the ductwork down into the discharge and return air openings. See dimensions in **FIGURE 12B**. Ductwork should be sized slightly smaller with a minimum 3/4" duct flange that can be attached to all sides of the duct connection. See the unit installation manual for ductwork requirements
 - Apply 1/4" x 1-1/4" foam sealant tape to both the top surface of the curb rails and the top surface of the perimeter of the duct opening(s), being sure to make good butt joints at all corners. The sealant tape must be applied to prevent water leakage into the curb area due to blown rain and capillary action.
 - When it is time to lift the unit onto the prepared curb, be sure that all of the above preparations have been made. **IMPORTANT:** Verify that the unit will be placed in the correct airflow orientation to mate properly with the discharge and return air openings.

FIGURE 12C - Curb Assembly for Model RDF



7.0 Roof Curbs for Models JDHA, JDMA, YDHA, YDMA, YDSA

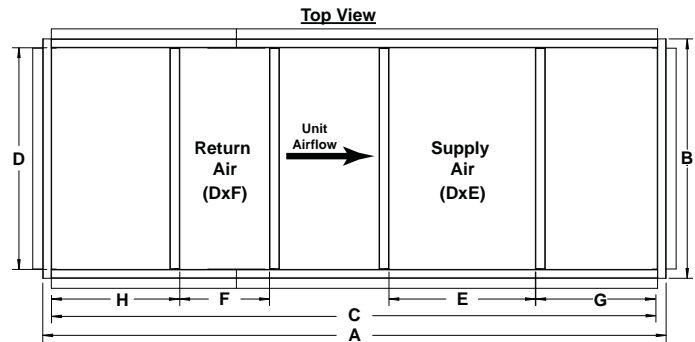
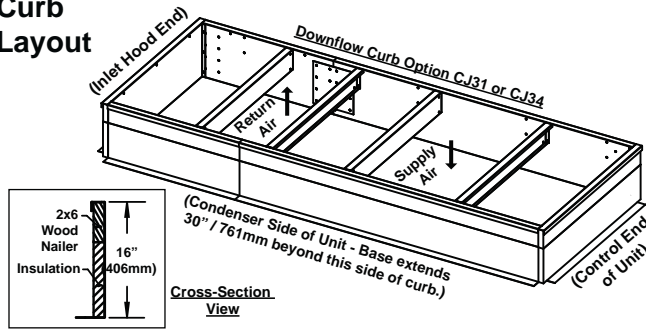
Two styles of curbs are available. Option CJ31 and CJ34 in Paragraph 7.1 are for downflow air applications. Option CJ48 and CJ55 in Paragraph 7.2 are for horizontal air flow applications.

Both Option CJ31 and CJ34 are 16" (406mm) high roof curbs designed for vertical (down) discharge. These curbs include integral cross supports for supply air and optional return air ductwork.

7.1 Downflow Roof Curbs

FIGURE 13A - Layout, Dimensions, and Weights of Option CJ31 & CJ34 Roof Curbs

Curb Layout



Dimensions for Options CJ31 & CJ34 - inches (mm)

Option	Model and Size	Cabinet Size	A	B	C	D	E**	F**	G	H
			(Outside of Curb Rails)	(Area Inside the Curb*)						
CJ31 No Energy Wheel	JDHA, JDMA, YDHA & YDMA, 060, 090, 120, 150	1	119-11/16 (3040)	43-7/16 (1103)	115-15/16 (2945)	39-11/16 (1008)	31 (787)	17 (432)	25-3/4 (654)	14-29/32 (379)
	JDHA, JDMA, YDHA & YDMA, 180, 210, 240 YDSA 120, 150	2	123-11/16 (3141)	50-11/16 (1287)	119-15/16 (3046)	46-15/16 (1192)	31 (787)	19 (483)	25-13/16 (656)	18-13/16 (478)
	JDHA, JDMA, YDHA & YDMA, 300, 360 YDSA 180, 210	3	154-11/16 (3929)	63-11/16 (1618)	150-15/16 (3834)	59-15/16 (1522)	31 (787)	21 (533)	28 (711)	28-7/32 (717)
CJ34 With Energy Wheel	JDHA, JDMA, YDHA & YDMA, 060, 090, 120, 150	1	128 (3251)	43-7/16 (1103)	124-1/4 (3156)	39-11/16 (1008)	31 (787)	17 (432)	25-3/4 (654)	23-1/4 (591)
	JDHA, JDMA, YDHA & YDMA, 180, 210, 240; YDSA 120, 150	2	132 (3353)	50-11/16 (1287)	128-1/4 (3257)	46-15/16 (1192)	31 (787)	19 (483)	25-13/16 (656)	27-1/8 (689)
	JDHA, JDMA, YDHA & YDMA, 300, 360; YDSA 180, 210	3	154-11/16 (3929)	63-11/16 (1618)	150-15/16 (3834)	59-15/16 (1522)	31 (787)	21 (533)	28 (711)	28-7/32 (717)

* Area enclosed by the roof curb must comply with clearance to combustible materials. If the roof is constructed of combustible materials, area within the roof curb must be ventilated, left open, or covered with non-combustible material which has an "R" value of at least 5. If area within curb is left open, higher radiated sound levels may result. **NOTE:** If installing a unit with a high efficiency, condensing gas-fired heat section, the area within the curb must be left open.

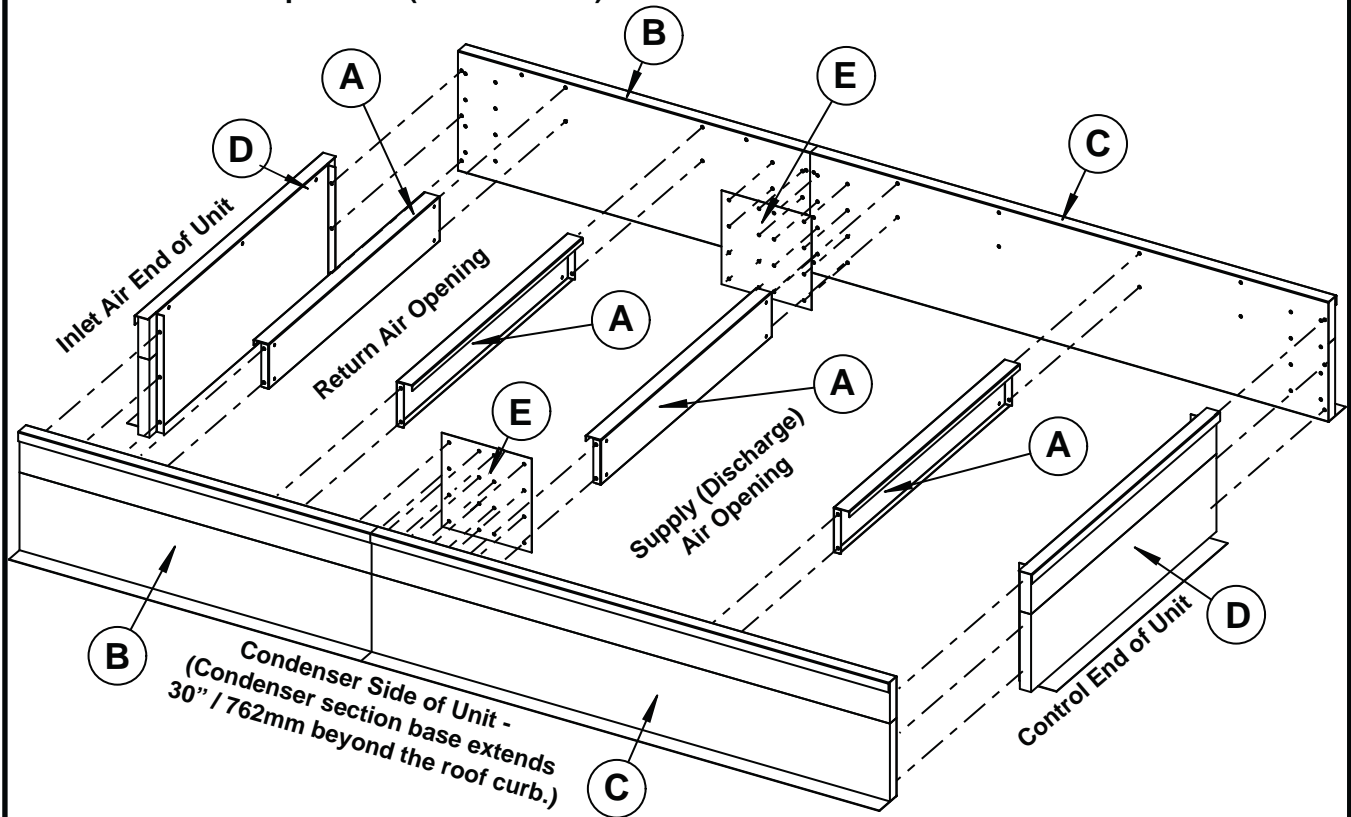
** When cutting only duct openings, cut "E" & "F" dimensions 1/4" (6.4mm) in from duct opening to allow clearance. Cut the curb rail sides of the duct opening(s) parallel to the curb rail. For Cabinet Size 1, measure a maximum of 1-1/2" (38mm) from the side rail. For Cabinet Size 2, measure a maximum of 3/4" (19mm) from the side rail. For Cabinet Size 3, measure a maximum of 1-1/4" (32mm) from the side rail.

Weights of Downflow Roof Curb Option CJ31 and CJ34 by Cabinet Size

Roof Curb	Cabinet 1		Cabinet 2		Cabinet 3	
	lbs	kg	lbs	kg	lbs	kg
Option CJ31	237	108	257	117	322	146
Option CJ34	248	112	268	122	322	146

CAUTION: Before installation, recheck to be sure that the correct curb has been ordered. Be sure that the curb selected matches the unit ordered. Verify the dimensions of the curb received with the appropriate dimension table.

FIGURE 13B - Components (CJ31 & CJ34)



Item	Description	Option CJ31			Option CJ34		
		Cabinet 1	Cabinet 2	Cabinet 3	Cabinet 1	Cabinet 2	Cabinet 3
	Package P/N	272399	272403	284223	272401	272405	284223
A	Cross Supports (duct connections)	(4) 271350	(4) 271689	(4) 284134	(4) 271350	(4) 271689	(4) 284134
B	Side Assy (inlet air end)	(2) 271413	(2) 272034	(2) 284189	(2) 271424	(2) 271391	(2) 284189
C	Side Assy (control end)	(2) 271414	(2) 271392	(2) 284188	(2) 271414	(2) 271392	(2) 284188
D	Curb End Assembly	(2) 271415	(2) 271393	(2) 284187	(2) 271415	(2) 271393	(2) 284187
E	Splice Plates for Sides	(2) 271690	(2) 271690	(2) 271690	(2) 271690	(2) 271690	(2) 271690

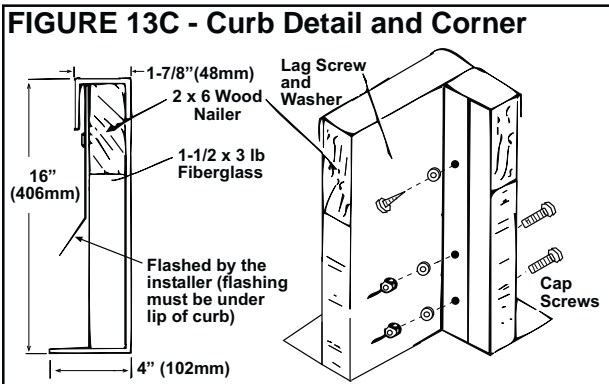
Hardware in Options CJ31 and CJ34			
Qty	P/N	Description	Use
28	16243	Lag Screw	For top level screws (1 each corner; 4 each splice; 2 each cross support). Insert screws from inside the curb so that they extend into the wood nailer on the outside.
28	1333	Washer	
32	16247	Cap Screw	For attaching at all points below the wood nailer. Insert screws from outside the curb.
32	1333	Washer	
32	1035	Hex Nut	

7.0 Roof Curbs for Models JDHA, JDMA, YDHA, YDMA, YDSA cont'd

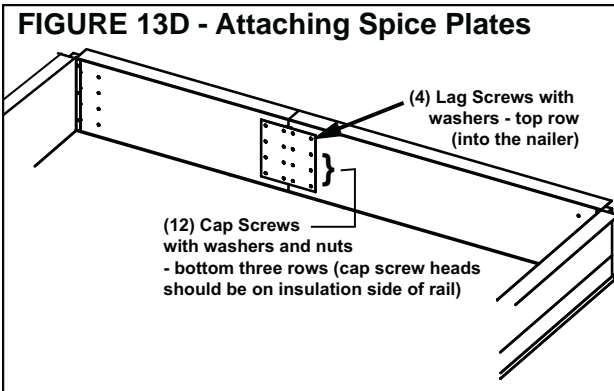
7.1 Downflow Roof Curbs cont'd

Installation Instructions for Down Discharge Roof Curb, Option CJ31 and Option CJ34

1. Refer to **FIGURE 13B** shown on page 33 and layout the two curb ends (**Item D**) and four side pieces (**Items B&C**). Verify that the side pieces are in the correct positions (inlet air end versus control end).
2. **Attach Curb Corners as shown below in FIGURE 13C.** Using the hardware provided, create the corners by attaching the ends to the side pieces.

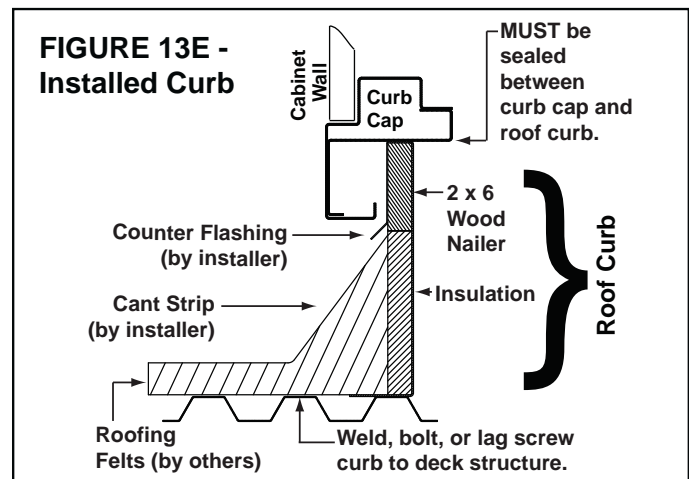


3. **Attach the Splice Plates (Item E) as shown below in FIGURE 13D** Use the hardware provided to attach splice plates to join the side rail pieces and create the perimeter of the curb.



4. **Attach the four Cross Supports (Item A).** At the holes in curb sides, line up the cross supports in the orientation illustrated in **FIGURE 13B** as shown on page 33. Since the cross supports form the duct connections, be certain that the vertical side of each cross support is toward the duct opening. Using two lag screws with washers, at each end of a cross support, attach the support to the sides. Insert the screws through the side and into the wood nailer. Repeat for the other three cross supports.

5. **Check the roof curb for squareness.** Adjust the curb so that the diagonal measurements are equal within a tolerance of $\pm 1/8"$ (3mm).
6. **Level the roof curb.** To ensure a good weatherproof seal between the cabinet curb cap and the roof curb, the curb must be leveled in both directions with no twist end to end. Shim as required and secure curb to the roof deck before installing flashing.
7. **Install field-supplied flashing as shown below in Figure 13E.**



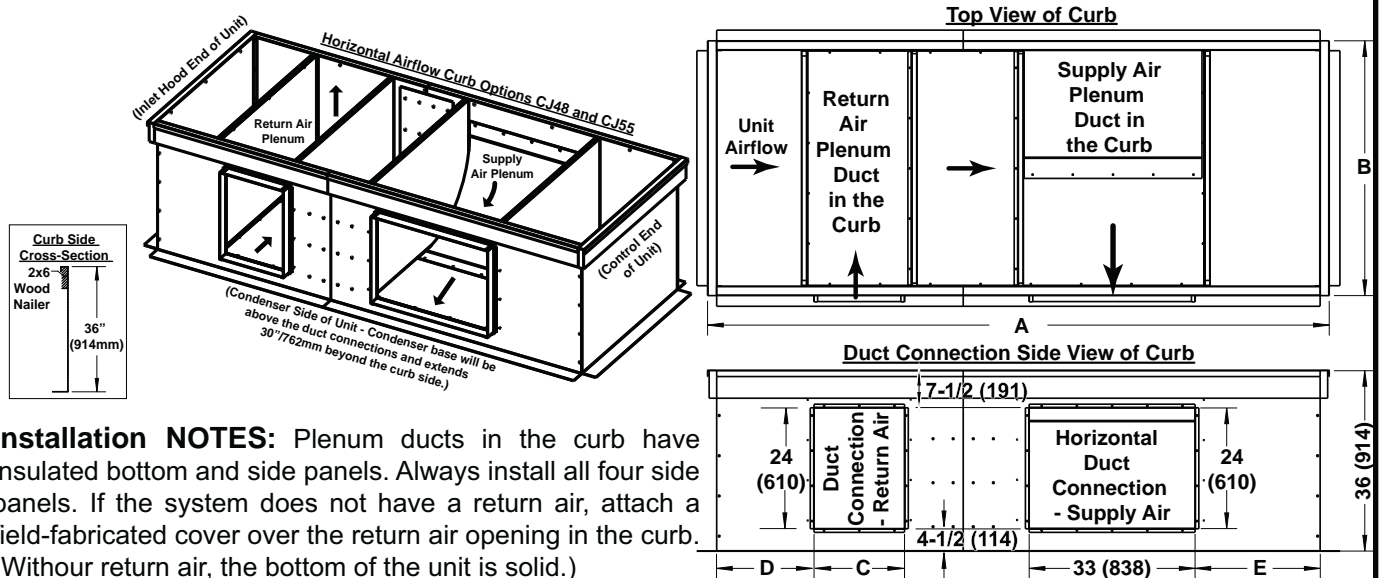
8. **Before placing the unit on the curb:**
 - Apply 1/4" x 1-1/4" foam sealant tape to both the top surface of the curb rails and the top surface of the cross supports, being sure to make good butt joints at all corners. The sealant tape must be applied to prevent water leakage into the curb area due to blown rain and capillary action.
 - Slide the ductwork down into the supply (discharge) and optional return air openings. See dimensions in **FIGURE 13A** shown on page 32. Ductwork should have a minimum 2" (51mm) duct flange.
 - When it is time to lift the unit onto the prepared curb, be sure that all of the above preparations have been made.

IMPORTANT: Verify that the unit will be placed in the correct airflow orientation to mate properly with the discharge and return air openings.

7.2 Roof Curbs for Horizontal Airflow - Options CJ48 & CJ55

Options CJ48 and CJ55 are 36" (914mm) high roof curbs designed for horizontal discharge. The curbs include plenum sections for ducting supply air and optional return air to the duct connections in the side of the curb.

FIGURE 14A - Layout, Dimensions, and Weights of Option CJ48 and CJ55 Horizontal Roof Curbs



Installation NOTES: Plenum ducts in the curb have insulated bottom and side panels. Always install all four side panels. If the system does not have a return air, attach a field-fabricated cover over the return air opening in the curb. (Without return air, the bottom of the unit is solid.)

Dimensions for Option CJ48 & CJ55 - inches (mm)

Option	Description	Cabinet Size*	A	B	C	D	E
			(Outside of Curb Rails)		Air Return	From End of Curb	
CJ48	Horizontal Discharge Curb for JDHA, JDMA, YDHA, YDMA, or YDSA without an energy recovery wheel	1	119-11/16 (3040)	43-7/16 (1103)	18 (457)	14-1/2 (368)	24-7/8 (632)
		2	123-11/16 (3141)	50-11/16 (1287)	18 (457)	19-3/8 (492)	24-7/8 (632)
		3	154-11/16 (3929)	63-11/16 (1618)	20 (508)	28-3/4 (730)	27-1/16 (687)
CJ55	Horizontal Discharge Curb for JDHA, JDMA, YDHA, YDMA, or YDSA with an energy recovery wheel	1	128 (3251)	43-7/16 (1103)	18 (457)	22-13/16 (579)	24-7/8 (632)
		2	132 (3353)	50-11/16 (1287)	18 (457)	27-11/16 (703)	24-7/8 (632)
		3	154-11/16 (3929)	63-11/16 (1618)	20 (508)	28-3/4 (730)	27-1/16 (687)

* Area enclosed by the roof curb must comply with clearance to combustible materials. If the roof is constructed of combustible materials, area within the roof curb must be ventilated, left open, or covered with non-combustible material which has an "R" value of at least 5. If area within curb is left open, higher radiated sound levels may result. **NOTE:** If installing a unit with a high efficiency, condensing gas-fired heat section, the area within the curb must be left open.

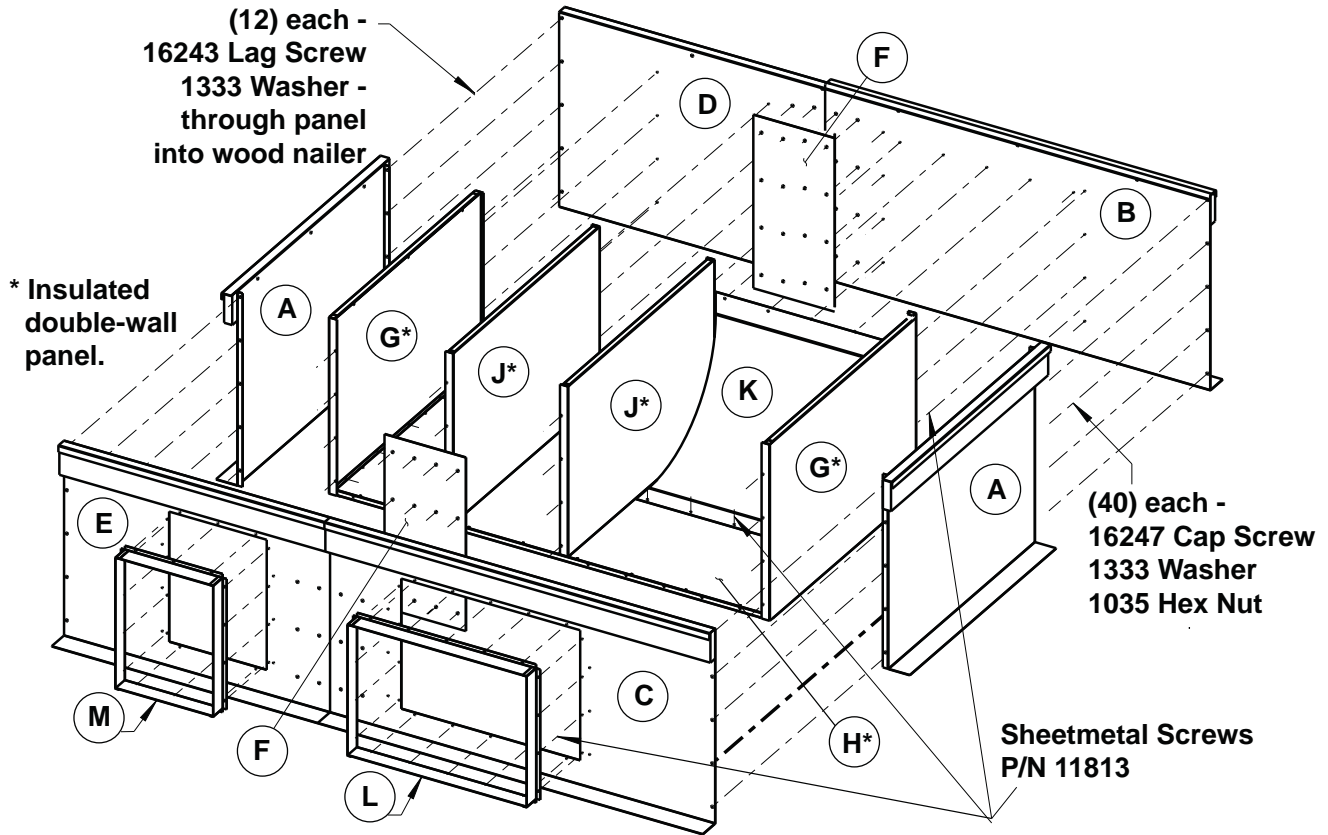
Weights of Horizontal Airflow Roof Curb Option CJ31 and CJ34 by Cabinet Size

Roof Curb	*Cabinet 1		*Cabinet 2		*Cabinet 3	
	lbs	kg	lbs	kg	lbs	kg
Option CJ48	555	252	599	272	686	311
Option CJ55	570	259	615	279	686	311

7.0 Roof Curbs for Models JDHA, JDMA, YDHA, YDMA, YDSA cont'd
 7.2 Roof Curbs for Horizontal Airflow - Options CJ48 & CJ55 cont'd

CAUTION: Before installation, recheck to be sure that the correct curb has been ordered. Be sure that the curb selected matches the unit ordered. Verify the dimensions of the curb received with the appropriate dimension table.

FIGURE 14B - Cabinet Sizes 1 & 2 Components (Horizontal Curb Options CJ48 and CJ55)



Item	Description	Curb Option CJ48		Curb Option CJ55 (for a unit with an energy recovery wheel)	
		Cabinet 1	Cabinet 2	Cabinet 1	Cabinet 2
	Package P/N	272400	272404	272402	272406
A	End Assembly	(2) 271419	(2) 271397	(2) 271419	(2) 271397
B	Side Assy (solid/control end)	(1) 271396	(1) 271396	(1) 271396	(1) 271396
C	Side Assy w/Supply Air Opening	(1) 271399	(1) 271399	(1) 271399	(1) 271399
D	Side Assy (solid/inlet air end)	(1) 271418	(1) 272036	(1) 271427	(1) 271395
E	Side Assy w/Return Air Opening	(1) 271417	(1) 272035	(1) 271426	(1) 271398
F	Splice Plates for Sides	(2) 271379	(2) 271379	(2) 271379	(2) 271379
G*	"Outer" Sides - Plenum Ducts	(2) 271421	(2) 271400	(2) 271421	(2) 271400
H*	Plenum Duct Bottom	(1) 271420	(1) 271401	(1) 271420	(1) 271401
J*	"Inner" Sides - Plenum Ducts	(2) 271422	(2) 271402	(2) 271422	(2) 271402
K	Air Baffle for Supply Air Plenum	(1) 271386	(1) 271386	(1) 271386	(1) 271386
L	Supply Air Duct Flange	(1) 271403	(1) 271403	(1) 271403	(1) 271403
M	Return Air Duct Flange	(1) 271404	(1) 271404	(1) 271404	(1) 271404

Hardware with Options CJ48 & CJ55 for Cabinets 1 & 2			
Qty	P/N	Description	Use
12	16243	Lag Screw	For top level screws (1 each corner; 4 each splice plate). Insert screws from inside the curb so that they extend into the wood nailer on the outside.
12	1333	Washer	
40	16247	Cap Screw	For attaching corners and splice plates below the wood nailer (4 each corner; 12 each splice plate). Insert screws from outside the curb.
40	1333	Washer	
40	1035	Hex Nut	
90	11813	Sheetmetal Screws	For attaching duct plenum sides, bottom, and baffle; and duct flanges.

Installation Instructions for Cabinet Sizes 1 & 2 Horizontal Curb, Option CJ48 and Option CJ55

1. Refer to **FIGURE 14B** shown on page 36 and position the two curb ends (**Item A**) and four side pieces (**Items B, C, D, E**). Verify the side pieces are positioned correctly (shorter piece at the inlet air end and longer piece at the control end of the unit).
2. **Attach Curb Corners.** Using the hardware provided (lag screw and washer in top holes; cap screw, washer, and nut in the 4 holes below the wood nailer), create the four corners by attaching the ends to the side pieces.
3. **Attach the two Side Splice Plates (Item F).** Use the hardware provided (lag screw and washer in top holes; cap screw, washer, and nut in the 4 holes below the wood nailer) to attach splice plates (**Item F**) joining the side pieces (**Items B&D and Items C&E**) to complete the perimeter of the curb.
4. **Attach the Two Outer Plenum Side Panels (Item G).** Position each insulated panel with the wide bottom flange toward the center. Align the panel with the holes in the curb sides and attach with sheetmetal screws.
5. **Install the Plenum Duct Bottom Panel (Item H).** Lower the insulated bottom panel into the curb, resting it on the flanges of the two panels installed in Step 4. Attach the bottom panel with sheetmetal screws.
6. **Install the Two Inner Plenum Side Panels (Item J).** Position one insulated side panel as illustrated and align the holes. Attach with sheetmetal screws to sides and bottom. Repeat to install the other side panel.
7. **Install Baffle in the Supply Air Plenum (Item K).** Position the baffle between the insulated side panels (**Items G&J**) as illustrated and align the holes. Attach with sheetmetal screws.
8. **Attach the Duct Flanges (Items L & M).** Using sheetmetal screws, attach the duct flange (**Item L**) around the supply opening and the smaller duct flange (**Item M**) around the return air opening. If the installation does not have return air, attach a field-fabricated cover over the return air opening.
9. **Check the Squareness, Level the Curb, and Install the Flashing** (reference **Figure 13E** on page 34 for flashing information). Adjust the curb so that the diagonal measurements are equal within a tolerance of $\pm 1/8"$ (3mm).

To ensure a good weatherproof seal between the cabinet curb cap and the perimeter of the curb, the curb must be leveled in both directions with no twist end to end. Shim as required and secure the curb to the roof deck.

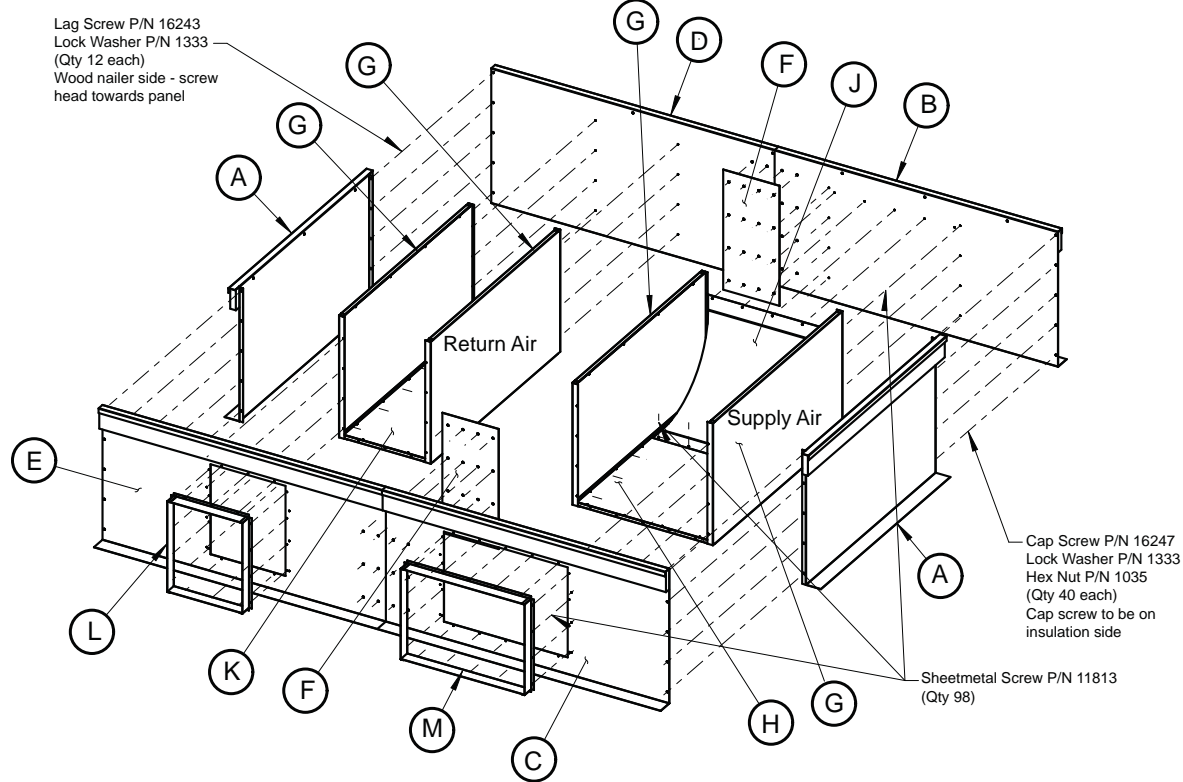
Install field-supplied flashing.
10. **Before placing the unit on the curb,** apply 1/4" x 1-1/4" foam sealant tape to both the top surface of the curb rails and the top surface of the duct sides.

IMPORTANT: Verify that the unit will be placed in the correct airflow orientation to mate properly with the discharge and return air openings.

7.0 Roof Curbs for Models JDHA, JDMA, YDHA, YDMA, YDSA cont'd

7.2 Roof Curbs for Horizontal Airflow - Options CJ48 & CJ55 cont'd

FIGURE 14C - Cabinet Size 3 Components (Horizontal Curb Options CJ48 and CJ55)



Item	Description	Curb Option CJ48 or CJ55 Cabinet 3
Package P/N		284224
A	End Assembly	(2) 284173
B	Side Assy (solid/control end)	(1) 284137
C	Side Assy w/Supply Air Opening	(1) 284139
D	Side Assy (solid/inlet air end)	(1) 284135
E	Side Assy w/Return Air Opening	(1) 284171
F	Splice Plates for Sides	(2) 271379

Item	Description	Curb Option CJ48 or CJ55 Cabinet 3
G	Sides for Plenum Ducts	(4) 284175
H	Plenum Duct Bottom	(1) 284181
J	Air Baffle for Supply Air Plenum	(1) 284184
K	Return Air Duct Bottom	(1) 284207
L	Return Air Duct Flange	(1) 284185
M	Supply Air Duct Flange	(1) 271403

Hardware in Options CJ48 & CJ55 for Cabinet 3			
Qty	P/N	Description	Use
12	16243	Lag Screw	For top level screws (1 each corner; 4 each splice plate). Insert screws from inside the curb so that they extend into the wood nailer on the outside.
12	1333	Lock Washer	
40	16247	Cap Screw	
40	1333	Lock Washer	For attaching corners and splice plates below the wood nailer (4 each corner; 12 each splice plate). Insert screws from outside the curb.
40	1035	Hex Nut	
98	11813	Sheet metal Screws	For attaching duct plenum sides, bottom, and baffle; and duct flanges.

Installation Instructions for Cabinet Size 3 Horizontal Curb, Option CJ48 and Option CJ55

- Refer to **FIGURE 14C** shown above and position the two curb ends (**letter A**) and four side pieces (**letters B, C, D, E**). Verify the side pieces are positioned correctly (shorter piece at the inlet air end and longer piece at the control end of the unit).
- Attach Curb Corners.**
Using the hardware provided (lag screw and washer in top holes; cap screw, washer, and nut in the 4 holes below the wood nailer), create the four corners by attaching the ends to the side pieces.
- Attach the two Side Splice Plates (letter F).**
Use the hardware provided (lag screw and washer in

top holes; cap screw, washer, and nut in the 4 holes below the wood nailer) to attach splice plates (**letter F**) joining the side pieces (**letters B&D and letters C&E**) to complete the perimeter of the curb.

4. Assemble the Return Air Plenum.

Position two sides (**letter G**) between the return air duct bottom (**letter K**) align the holes in each and using the sheet metal screws, assemble these three sheet metal pieces. Then using the holes in the curb sides (**letters D & E**), align the return air plenum sub assembly holes on each end with the holes in the curb sides and attach using the sheet metal screws.

5 Assemble the Supply Air Plenum. Position two sides (**letter G**) between the supply air duct bottom (**letter H**) align the holes in each and using the sheet metal screws, assemble these three sheet metal pieces. Then using the holes in the curb sides (**letters D & E**), align the supply air plenum sub assembly holes on each end with the holes in the curb sides and attach using the sheet metal screws.

6. Attach the Duct Flanges (letters L & M).

Using sheet metal screws, attach the supply air duct flange (**letter M**) around the supply opening and the smaller return air duct flange (**letter L**) around the return air opening. If the installation does not have return air, attach a field-fabricated cover over the return air opening.

7. Check the Squareness, Level the Curb, and

Install the Flashing (reference **Figure 13E** on page 34 for flashing information)..

Adjust the curb so that the diagonal measurements are equal within a tolerance of $\pm 1/8"$ (3mm).

To ensure a good weatherproof seal between the cabinet curb cap and the perimeter of the curb, the curb must be leveled in both directions with no twist end to end. Shim as required and secure the curb to the roof deck.

Install field-supplied flashing.

8. Before placing the unit on the curb, apply 1/4" x 1-1/4" foam sealant tape to both the top surface of the curb rails and the top surface of the duct sides.

IMPORTANT: Verify that the unit will be placed in the correct airflow orientation to mate properly with the discharge and return air openings.

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