ROOF CURB KIT INSTALLATION INSTRUCTIONS
For Packaged Rooftop Arrangements

ATTENTION
Read these instructions carefully prior to installing this equipment.
Check all specifications and make sure the appropriate equipment is being installed.
Record the Model number in the space provided. Retain this manual for future reference!

⚠️ WARNING
Improper installation, adjustment, alteration, service or maintenance can cause property
damage, injury or death. Read the installation instructions thoroughly before installing or servicing this
equipment.

RECEIVING INSTRUCTIONS
Inspect the shipment immediately when received to determine if any damage has occurred to the unit dur-
ing shipment. After the Roof Curb Kit(s) have been unpacked, check for any visible damage to the parts. If
any damage is found, the consignee should sign the bill of lading indicating such damage and immediately
file claim for the damage with the transportation company.

INSTALLER’S RESPONSIBILITY
Installer Please Note: This equipment has been inspected and shipped free from defects from our factory.
Inspect all parts required for each roof curb kit and ensure all parts are accounted for. It is the installer’s
responsibility to inspect and correct any problems that may be found.

The following terms are used throughout this manual to bring attention to the presence of potential hazards or to
important information concerning the product:

⚠️ DANGER
Indicates an imminently hazardous situation which, if not avoided, will result in death,
serious injury or substantial property damage

⚠️ WARNING
Indicates an imminently hazardous situation which, if not avoided, could result in
serious injury or substantial property damage.

⚠️ CAUTION
Indicates an imminently hazardous situation which, if not avoided, could result in death,
serious injury or substantial property damage.

NOTICE: Used to notify of special instructions on installation, operation or maintenance which are
important to equipment but not related to personal injury hazards.

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*(U) indicates that the roof curb kit is shipped from the
factory uninsulated.

Unless otherwise specified, the following conversions
may be used for calculating SI measurements:
1 foot = 0.305 m 1 inch water column = 0.24 kPa
1 inch = 25.4 mm 1000 Btu per hour = 0.293 kW
1 psig = 6.894 kPa 1000 Btu/Cu. Ft. = 37.5 MJ/m³
1 pound = 0.435 kg liter/second = CFM x 0.472
1 gallon = 3.785 L meter/second = FPM ÷ 196.8
1 cubic foot = 0.028 m³
Roof Curbs for arrangements D and E include an evaporative cooler platform. See pages 22 and 23.

Roof Curbs ship knocked down for ease of handling and storage. The field assembly and mounting of the curb to the roof is the responsibility of the installer. All curbs ship complete with pre-assembled side and end rails, cross member supports, ductwork connector brackets, hardware, optional insulation and gasketing. See Figures 3, 33 and 34 for a complete parts list for your curb.

Check to see that all components are included. Refer to Figures 3, 4, 5, 6, 33 and 34 to see if all other field supplied parts are also on hand.

Provide a suitable opening, or two openings, in the roof as suggested per Figures 2 and 4. These return and/or supply air ductwork openings have been calculated to include a one inch clearance on each side of the ductwork. The installer may determine other opening(s) to accept return and/or supply air ducts to suit particular needs.

Figure 1 - Dimensions

**DIMENSIONAL DATA**

<table>
<thead>
<tr>
<th>Roof Curb Kit No.*</th>
<th>RC001, RC002, RC003, RC004, &amp; RC006.*</th>
<th>Capacity (CA)</th>
<th>F† (inside)</th>
<th>H† (outside)</th>
<th>J† (inside)</th>
</tr>
</thead>
<tbody>
<tr>
<td>* - 1</td>
<td>10, 15</td>
<td>29 - 5/8</td>
<td>71 - 1/8</td>
<td>67 - 3/8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1046)</td>
<td>(1711)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(1370)</td>
<td>(1711)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* - 3</td>
<td>30, 35, 60, 70</td>
<td>29 - 5/8</td>
<td>71 - 1/8</td>
<td>67 - 3/8</td>
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</tr>
<tr>
<td></td>
<td>(1807)</td>
<td>(1711)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>* - 4</td>
<td>40, 80</td>
<td>29 - 5/8</td>
<td>71 - 1/8</td>
<td>67 - 3/8</td>
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</tr>
<tr>
<td></td>
<td>(2467)</td>
<td>(2372)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

† Dimensions are in inches. 
(Dimensions in parenthesis are in millimeters.) 

<table>
<thead>
<tr>
<th>Roof Curb Kit No.*</th>
<th>Roof Curb Kit Suffix No. *</th>
<th>Approximate Roof Curb Kit Weights</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>B</td>
<td>0.453 kg</td>
</tr>
<tr>
<td></td>
<td>N</td>
<td>0.453 kg</td>
</tr>
<tr>
<td></td>
<td>R</td>
<td>0.453 kg</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>0.453 kg</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>0.453 kg</td>
</tr>
<tr>
<td></td>
<td>E</td>
<td>0.453 kg</td>
</tr>
<tr>
<td></td>
<td>G</td>
<td>0.453 kg</td>
</tr>
<tr>
<td></td>
<td>T</td>
<td>0.453 kg</td>
</tr>
<tr>
<td></td>
<td>U</td>
<td>0.453 kg</td>
</tr>
</tbody>
</table>

† Dimensions are in inches. 
(Dimensions in parenthesis are in millimeters.)
To avoid any property damage or personal injury, it is the installer’s responsibility to make sure that the installation will not impair the function of this curb, or the unit to be installed.

Position and assemble the curb, referring to Figures 1 thru 8, 17 and 18 and the following procedure:

1. All hardware used for these assembly procedures is included with your curb, and should be used. Do not tighten any hardware until the curb is completely level and square, and installed in a suitable position on the roof, with proper alignment to the roof/unit opening(s).

2. Position and install the end and side curb rail sub-assemblies, aligning around the roof opening location(s).

3. Position and install the inner cross brace(s) and ductwork brackets as shown.

4. Secure the roof curb to the roof decking.

5. Install the field supplied flashing/materials.

6. Apply the gasketing (included with the kit) on the top flanges/surfaces on the curb as shown.

To avoid any property damage or personal injury, it is the installer’s responsibility that the roof curb and unit must be completely sealed, preventing any water or air leakage/damage.

Figure 2 - Roof Opening Specifications

* Dimension “A” applies to the distance between roof openings (only on units with a supply plenum; also refer to Figure 4):

“A” = 50 - 7/8 inches.

Refer to Figure 4 for section X-X and Y-Y details.

Dimensions are in inches (Dimensions in parenthesis are in millimeters).
Figure 3 - Roof Curb Kit Assembly

* The roof curb and destined unit must be sealed completely to prevent any water or air leakages (also see Figure 8). Refer to Figures 33 and 34 for Ductwork Mounting Bracket Assembly.
Figure 4 - Roof Curb application (Also refer to Figures 2, 5 and 6)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,15</td>
<td>24&quot; (610)</td>
<td>26&quot; (660)</td>
</tr>
<tr>
<td>20,25,50</td>
<td>35&quot; (889)</td>
<td>37&quot; (940)</td>
</tr>
<tr>
<td>30,35,60,70</td>
<td>48&quot; (1,168)</td>
<td>48&quot; (1,219)</td>
</tr>
<tr>
<td>40,80,12</td>
<td>51-7/8&quot; (1,316)</td>
<td>53-1/2&quot; (1,350)</td>
</tr>
</tbody>
</table>

Figure 5 - Detail D

Figure 6 - Detail E
Figure 7 - Curb Specifications

For Field Installations: These Cross Brace/Curb Adaptors (two adaptors ship with each rooftop unit) must be repositioned when the unit is mounted on a curb or platform (one for each end). Simply remove the screws, turn the piece over (end for end) and secure in place using the holes/hardware provided. **All joints and seams must be sealed completely to prevent leaks.**

**Replacement Hardware Kit:**
Part No. RCHK-12346
Roof Curbs for arrangements D and E include an evaporative cooler platform. See pages 22 and 23.

Roof Curbs ship knocked down for ease of handling and storage. The field assembly and mounting of the curb to the roof is the responsibility of the installer. All curbs ship complete with pre-assembled side and end rails, cross member supports, ductwork connector brackets, hardware, insulation and gasketing. See Figures 11, 33 and 34 for a complete parts list for your curb. Check to see that all components are included. Refer to Figures 11 thru 18 to see if all other field supplied parts are also on hand.

Figure 9 - Dimensions

![Figure 9 - Dimensions](image)

### DIMENSIONAL DATA

<table>
<thead>
<tr>
<th>Roof Curb Kit No.*</th>
<th>Roof Top (RA) Arrangement</th>
<th>Capacity (CA)</th>
<th>F (inside)</th>
<th>H (outside)</th>
<th>J (inside)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RC005*</td>
<td>G</td>
<td>50 thru 80</td>
<td>123</td>
<td>119 - 1/4</td>
<td>155 - 9/16</td>
</tr>
<tr>
<td></td>
<td>J</td>
<td>20 thru 40</td>
<td>37 - 1/8</td>
<td>133 - 1/4</td>
<td>129 - 1/2</td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>10 thru 40</td>
<td>(943)</td>
<td>(3385)</td>
<td>(3289)</td>
</tr>
<tr>
<td></td>
<td>W</td>
<td>20 or 40</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RC007*</td>
<td>C</td>
<td>50 thru 80</td>
<td>123</td>
<td>119 - 1/4</td>
<td>155 - 9/16</td>
</tr>
<tr>
<td></td>
<td>E</td>
<td>50 thru 80</td>
<td>(765)</td>
<td>(3124)</td>
<td>(3029)</td>
</tr>
<tr>
<td>RC008*</td>
<td>G</td>
<td>12</td>
<td>37 - 5/16</td>
<td>159 - 5/16</td>
<td>155 - 9/16</td>
</tr>
<tr>
<td></td>
<td>J &amp; K</td>
<td>50 thru 80</td>
<td>(948)</td>
<td>(4046)</td>
<td>(3951)</td>
</tr>
<tr>
<td></td>
<td>L</td>
<td>10 thru 40</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RC10*</td>
<td>J</td>
<td>50 thru 80</td>
<td>(938)</td>
<td>(4707)</td>
<td>(4612)</td>
</tr>
<tr>
<td></td>
<td>L</td>
<td>50 thru 80</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

† Dimensions are in inches. (Dimensions in parenthesis are in millimeters.)

<table>
<thead>
<tr>
<th>Roof Curb Kit No.*</th>
<th>Roof Top (RA) Arrangement</th>
<th>Capacity (CA)</th>
<th>F (inside)</th>
<th>H (outside)</th>
<th>J (inside)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RC005*</td>
<td>G</td>
<td>50 thru 80</td>
<td>123</td>
<td>119 - 1/4</td>
<td>155 - 9/16</td>
</tr>
<tr>
<td></td>
<td>J</td>
<td>20 thru 40</td>
<td>37 - 1/8</td>
<td>133 - 1/4</td>
<td>129 - 1/2</td>
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<td>K</td>
<td>10 thru 40</td>
<td>(943)</td>
<td>(3385)</td>
<td>(3289)</td>
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<tr>
<td></td>
<td>W</td>
<td>20 or 40</td>
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<tr>
<td>RC007*</td>
<td>C</td>
<td>50 thru 80</td>
<td>123</td>
<td>119 - 1/4</td>
<td>155 - 9/16</td>
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<td></td>
<td>E</td>
<td>50 thru 80</td>
<td>(765)</td>
<td>(3124)</td>
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<tr>
<td>RC008*</td>
<td>G</td>
<td>12</td>
<td>37 - 5/16</td>
<td>159 - 5/16</td>
<td>155 - 9/16</td>
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<td></td>
<td>J &amp; K</td>
<td>50 thru 80</td>
<td>(948)</td>
<td>(4046)</td>
<td>(3951)</td>
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<td>RC10*</td>
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<td>(938)</td>
<td>(4707)</td>
<td>(4612)</td>
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<tr>
<td></td>
<td>L</td>
<td>50 thru 80</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

† Dimensions are in inches. (Dimensions in parenthesis are in millimeters.)

NA = Not Applicable
(RA) = Roof Top Arrangement
(CA) = Capacity
† lb. = 0.453 kg
**WARNING** Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation instructions thoroughly before installing or servicing this equipment.

**WARNING** To avoid any property damage or personal injury, it is the installer's responsibility to make sure that the installation will not impair the function of this curb, or the unit to be installed.

All curbs must be mounted on level areas. The roof must be suitable to support the weight of both the curb and the unit to be mounted. The enclosed area of the roof curb must comply to required clearances to combustible materials. If the roof construction is made of combustible materials, the enclosed roof curb area must meet the following requirements:
1. Ventilate this area.
2. Leave area open (however, this may elevate higher sound levels.)
3. Cover this area with non-combustible material, which utilizes an “R” value of 5.0 minimum.

Position and assemble the curb, referring to Figures 9 thru 18 and the following procedure:
1. All hardware used for these assembly procedures is included with your curb, and should be used. Do not tighten any hardware until the curb is completely level and square, and installed in a suitable position on the roof, with proper alignment to the roof/unit opening(s).
2. Position and install the end and side curb rail sub-assemblies, aligning around the roof opening location(s).
3. Position and install the inner cross brace(s) and ductwork brackets as shown.
4. Secure the roof curb to the roof decking.
5. Install the field supplied flashing/materials.
6. Apply the gasketing (included with the kit) on the top flanges/surfaces on the curb as shown.

**WARNING** To avoid any property damage or personal injury, it is the installer's responsibility that the roof curb and unit must be completely sealed, preventing any water or air leakage/damage.

**Figure 10 - Roof Opening Specifications**

* Dimension “A” applies to the distance between roof openings (only on units with a supply plenum; also refer to Figure 12):
  - RC005, URC005 - Dimension “A” = 87 - 1/16 inches (2211 mm)
  - RC007, URC007, RC008, URC008 - Dimension “A” = 76 - 7/8 inches (1952mm)
  - RC009, URC009 - Dimension “A” = 113 inches (2871mm)
  - RC010, URC010 - Dimension “A” = 139 inches (3531mm)

Refer to Figure 4 for section X-X and Y-Y details.

Dimensions are in inches (Dimensions in parenthesis are in millimeters).
Figure 3 - Roof Curb Kit Assembly*

* The roof curb and destined unit must be sealed completely to prevent any water or air leakages (also see Figure 16). Refer to Figures 33 and 34 for Ductwork Mounting Bracket Assembly.
Figure 12 - Roof Curb Application (Also refer to Figures 10, 13 and 14)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,15</td>
<td>24&quot; (610)</td>
<td>26&quot; (660)</td>
</tr>
<tr>
<td>20,25,50</td>
<td>30&quot; (762)</td>
<td>35&quot; (889)</td>
</tr>
<tr>
<td>30,35,60,70</td>
<td>48&quot; (1,219)</td>
<td>48&quot; (1,219)</td>
</tr>
<tr>
<td>40,80,12</td>
<td>53-1/2 (1,350)</td>
<td>53-1/2 (1,350)</td>
</tr>
</tbody>
</table>

Figure 13 - Detail D

Figure 14 - Detail E
Figure 15 - Curb Specifications

For Field Installations: These Cross Brace/Curb Adaptors (two adaptors ship with each rooftop unit) must be repositioned when the unit is mounted on a curb or platform (one for each end). Simply remove the screws, turn the piece over (end for end) and secure in place using the holes/hardware provided. All joints and seams must be sealed completely to prevent leaks.

Figure 16 - Unit/Curb Rail Assembly

Replacement Hardware Kit:
(U)RC005, (U)RC007, (U)RC008 Part No. RCHK-578
(U)RC009, (U)RC010 Part No. RCHK-910
Roof Curb for arrangement D include an evaporative cooler platform. See pages 22 and 23.

Roof Curbs ship knocked down for ease of handling and storage. The field assembly and mounting of the curb to the roof is the responsibility of the installer. All kits ship complete with pre-assembled side and end rails, cross member supports, ductwork connector brackets, hardware, insulation and gasketing. See Figure 19, 33 and 34 for a complete parts list for your kit. Check to see that all components of the kit are included. Refer to Figures 17 thru 23, 31 and 32 to see if all other field supplied parts are also on hand.

Provide a suitable opening in the roof as suggested per Figure 18 and 20. The return air opening has been calculated to include a one inch clearance on each side of the ductwork. The installer may determine the opening to accept a return air duct to suit particular needs.

Figure 17 - Dimensions

**DIMENSIONAL DATA**

<table>
<thead>
<tr>
<th>Kit No.*</th>
<th>CAPACITY</th>
<th>W †</th>
<th>B †</th>
<th>F †</th>
<th>H †</th>
</tr>
</thead>
<tbody>
<tr>
<td>* -2</td>
<td>20</td>
<td>37-7/16 (951)</td>
<td>41-3/16 (1046)</td>
<td>41 - 1/2 (1054)</td>
<td>45 - 1/4 (1149)</td>
</tr>
<tr>
<td>* - 4</td>
<td>40</td>
<td>53-15/16 (1370)</td>
<td>57-11/16 (1465)</td>
<td>41 - 1/2 (1054)</td>
<td>45 - 1/4 (1149)</td>
</tr>
</tbody>
</table>

† Dimensions are in inches. (Dimensions in parenthesis are in millimeters.)

**APPROXIMATE ROOF CURB KIT WEIGHTS (LBS.)**

<table>
<thead>
<tr>
<th>Roof Curb Kit No.</th>
<th>Rooftop (RA) Arrangement</th>
<th>Capacity (CA)</th>
<th>* - 1</th>
<th>Roof Curb Kit Suffix No. - *</th>
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</thead>
<tbody>
<tr>
<td>RC011 - *</td>
<td>M</td>
<td>20 or 40</td>
<td>NA</td>
<td>85</td>
</tr>
<tr>
<td>RC012 - *</td>
<td>P</td>
<td>20 or 40</td>
<td>NA</td>
<td>115</td>
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</tbody>
</table>

NA = Not Applicable
1 lb. = 0.453 Kg
(RA) = Rooftop Arrangement
(CA) = Capacity
To avoid any property damage or personal injury, it is the installer's responsibility to make sure that the installation will not impair the function of this curb, or the unit to be installed.

All curbs must be mounted on level areas. The roof must be suitable to support the weight of both the curb and the unit to be mounted. The enclosed area of the roof curb must comply to required clearances to combustible materials. If the roof construction is made of combustible materials, the enclosed roof curb area must meet the following requirements:
1. Ventilate this area.
2. Leave area open (however, this may elevate higher sound levels.)
3. Cover this area with non-combustible material, which utilizes an “R” value of 5.0 minimum.

Position and assemble the curb, referring to Figures 17 thru 23, 33 and 34. Use the following procedure:
1. All hardware used for these assembly procedures is included with your curb, and should be used. Do not tighten any hardware until the curb is completely level and square, and installed in a suitable position on the roof, with proper alignment to the roof/unit opening(s).
2. Position and install the end and side curb rail sub-assemblies, aligning around the roof opening location(s).
3. Position and install the inner cross brace(s) and ductwork brackets as shown.
4. Secure the roof curb to the roof decking.
5. Install the field supplied flashing/materials.
6. Apply the gasketing (included with the kit) on the top flanges/surfaces on the curb as shown

To avoid any property damage or personal injury, it is the installer’s responsibility that the roof curb and unit must be completely sealed, preventing any water or air leakage/damage.

Figure 18 - Roof Opening Specifications

Dimensions are in inches (Dimensions in parenthesis are in millimeters). Refer to Figure 20 for Section X-X and Y-Y details.
Figure 19 - Roof Curb Kit Assembly*

* The roof curb and destined unit must be sealed completely to prevent any water or air leakages (also see Figure 23). Refer to Figure 33 for Ductwork Mounting Bracket Assembly.

Side and End Rails 16 ga.
Figure 20 - Roof Curb Kit Application (Also refer to Figures 18, 19 and 21)

Figure 21 - Return Air Ductwork Connections
Figure 22 - Curb Specifications

Figure 23 - Unit/Curb Rail Assembly

For Field Installations: These Cross Brace/Curb Adaptors (two adaptors ship with each rooftop unit) must be repositioned when the unit is mounted on a curb or platform (one for each end). Simply remove the screws, turn the piece over (end for end) and secure in place using the holes/hardware provided. All joints and seams must be sealed completely to prevent leaks.
Roof Curbs ship knocked down for ease of handling and storage. The field assembly and mounting of the curb to the roof is the responsibility of the installer. All kits ship complete with pre-assembled side and end rails, cross member supports, hardware, insulation and gasketing. See Figures 26 and 33 for a complete parts list for your curb. Check to see that all components are included. Refer to Figures 26 thru 33 to see if all other field supplied parts are also on hand.

Provide a suitable opening in the roof as suggested per Figures 25 and 27. The return air opening has been calculated to include a one inch clearance on each side of the ductwork. The installer may determine the opening to accept a return air duct to suit particular needs.

Figure 24 - Dimensions

![Figure 24 - Dimensions](image)

**DIMENSIONAL DATA**

*For use with air handler “AH” Arrangement “S”*

<table>
<thead>
<tr>
<th>Kit No.</th>
<th>CAPACITY</th>
<th>W †</th>
<th>B †</th>
<th>F †</th>
<th>H †</th>
</tr>
</thead>
<tbody>
<tr>
<td>* -2</td>
<td>20</td>
<td>37 - 7/16 (951)</td>
<td>41 - 3/16 (1046)</td>
<td>38 - 1/8 (968)</td>
<td>81 - 7/16 (2069)</td>
</tr>
<tr>
<td>* - 4</td>
<td>40</td>
<td>53 - 15/16 (1370)</td>
<td>57 - 11/16 (1465)</td>
<td>38 - 1/8 (968)</td>
<td>81 - 7/16 (2069)</td>
</tr>
</tbody>
</table>

† Dimensions are in inches.
(Dimensions in parenthesis are in millimeters.)

**Approximate Roof Curb Kit Weights**

<table>
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<th>Roof Curb Kit No.</th>
<th>Lb.s</th>
</tr>
</thead>
<tbody>
<tr>
<td>RC013-2</td>
<td>140</td>
</tr>
<tr>
<td>RC013-4</td>
<td>168</td>
</tr>
</tbody>
</table>
To avoid any property damage or personal injury, it is the installer’s responsibility to make sure that the installation will not impair the function of this curb, or the unit to be installed.

All curbs must be mounted on level areas. The roof must be suitable to support the weight of both the curb and the unit to be mounted. The enclosed area of the roof curb must comply to required clearances to combustible materials. If the roof construction is made of combustible materials, the enclosed roof curb area must meet the following requirements:
1. Ventilate this area.
2. Leave area open (however, this may elevate higher sound levels.)
3. Cover this area with non-combustible material, which utilizes an “R” value of 5.0 minimum.

Position and assemble the curb, referring to Figures 1 thru 8, 17 and 18 and the following procedure:
1. All hardware used for these assembly procedures is included with your curb, and should be used. Do not tighten any hardware until the curb is completely level and square, and installed in a suitable position on the roof, with proper alignment to the roof/unit opening(s).
2. Position and install the end and side curb rail sub-assemblies, aligning around the roof opening location(s).
3. Position and install the inner cross brace(s) and ductwork brackets as shown.
4. Secure the roof curb to the roof decking.
5. Install the field supplied flashing/materials.
6. Apply the gasketing (included with the kit) on the top flanges/surfaces on the curb as shown

To avoid any property damage or personal injury, it is the installer’s responsibility that the roof curb and unit must be completely sealed, preventing any water or air leakage/damage.

Figure 25 - Roof Opening Specifications

<table>
<thead>
<tr>
<th>Unit Type [ UT ] &quot;AH&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity [ CA ]</td>
</tr>
<tr>
<td>20</td>
</tr>
<tr>
<td>40</td>
</tr>
</tbody>
</table>

* All Dimensions Shown Have Been Calculated To Include A One (1) Inch Clearance Around Return Duct.

Dimensions are in inches (Dimensions in parenthesis are in millimeters).
Refer to Figure 27 for section X-X and Y-Y details.
FIGURE 26 - ROOF CURB KIT ASSEMBLY*

* The roof curb and destined unit must be sealed completely to prevent any water or air leakages (also see Figure 30) Refer to Figure 33 for Ductwork Mounting Bracket Assembly.

1) CURB RAIL ASSY-SIDE
2) CURB RAIL ASSY-END
3) CROSS BRACE-CURB
4) BOLT-3/8-15 x 1" LG. HEX HD. (8) REQ'D.
5) 3/8-16 HEX NYLOC NUT (8) REQ'D.
6) 1/4-14 X 5/8 LG. HEX WASHER HD. SHEET METAL SCREW TYPE "AB" (4) REQ'D.
7) SCREW-#10 X 5/8 LG. PAN HD. TYPE "AB" (6) REQ'D.
8) GASKET

END RAIL SECTION 16 GA.
SIDE RAIL SECTION 14 GA.
Figure 27 - Roof Curb Kit Application (Also refer to Figures 25, 26 and 28)

<table>
<thead>
<tr>
<th>CAPACITY (CA)</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>30&quot; (889)</td>
<td>37&quot; (940)</td>
</tr>
<tr>
<td>40</td>
<td>51-1/2 (1,308)</td>
<td>53-1/2 (1,359)</td>
</tr>
</tbody>
</table>

Dimensions are in inches. (Dimensions in parentheses are in mm.)

Figure 28 - Return Air Ductwork Connections
Figure 29 - Curb Specifications

Seal All Corners, Seams & Gaps.

Unit Base Side Rail Flange With Curb Cap

Anchor Location

3/8' (10) Clearance Should Be Maintained On Each Side To Insure Proper Installation.

2" (50)

2-1/2" (64)

4" (102)

1" (25)

Gasketing

Optional Insulation

Curb Rail Ass'y.

Section Curb Side Rail

Detail K

Figure 30 - Unit/Curb Rail Assembly

For Field Installations: These Cross Brace/Curb Adaptors (two adaptors ship with each rooftop unit) must be repositioned when the unit is mounted on a curb or platform (one for each end). Simply remove the screws, turn the piece over (end for end) and secure in place using the holes/hardware provided. **All joints and seams must be sealed completely to prevent leaks.**

Nail *

Cant *

Felt *

Nailer (Wood Strip)

Damper

Field Supplied By Others

* Field Supplied By Others

Replacement Hardware Kit:
Part No. RCHK-13
Module Size
One size platform fits all Evaporative Cooler Modules, unit capacities 10 through 80.

This platform is shipped knocked down for ease of handling and storage. The field assembly and mounting of the platform to the roof is the responsibility of the installer. This platform ships complete with two adjustable platform rails and hardware. See the figures for a complete parts list for your platform. Check to see that all components of the platform are included.

Approximate Roof Curb Kit Weights

<table>
<thead>
<tr>
<th>Roof Curb Kit No.</th>
<th>Capacities (CA)</th>
<th>Weight (Lbs.)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>RC015-1</td>
<td>10/15</td>
<td>30</td>
</tr>
<tr>
<td>RC015-2</td>
<td>20/25/50</td>
<td>30</td>
</tr>
<tr>
<td>RC015-3</td>
<td>30/35/60/70</td>
<td>30</td>
</tr>
<tr>
<td>RC015-4</td>
<td>40/80</td>
<td>30</td>
</tr>
</tbody>
</table>

*1 Lb. = 0.453 kg

Figure 31 - Installation

Replacement Hardware Kit:
Part No. RCHK-15
To avoid any property damage or personal injury, it is the installer's responsibility to make sure that the installation will not impair the function of this curb, or the unit to be installed.

All platforms must be mounted on level areas. The roof must be suitable to support the weight of both the platform and the unit to be mounted.

Position and assemble the platform, referring to Figures 2 and 3, and the following procedure:
1. All hardware used for these assembly procedures is included with your platform, and should be used. **Do not** tighten any hardware until the platform is completely level and square, and installed in a suitable position on the roof, with proper alignment to the roof/unit.

2. Position and install the platform rails.
3. Secure the platform to the roof decking.
4. Follow all installation instructions with any other unit that may be used for this installation.

**WARNING** To avoid any property damage or personal injury, it is the installer's responsibility that the roof curb and unit must be completely sealed, preventing any water or air leakage/damage.

1. - Evaporative Cooler Assembly
2. - Platform Curb
3. - 1/4-20 "keps" nut (8 required)
4. - 1/4-20 x 5/8 lg. hex head bolt (8 required)

---

Figure 32 - Evaporative Platform Curb to Rooftop Arrangement Installation
Figure 33 - Return Air Ductwork Mounting Bracket Assembly - RC016

<table>
<thead>
<tr>
<th>RC016</th>
<th>CAPACITY (CA)</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>* - 1</td>
<td>10, 15</td>
<td>3</td>
</tr>
<tr>
<td>* - 2</td>
<td>20, 25, 50</td>
<td>4</td>
</tr>
<tr>
<td>* - 3</td>
<td>30, 35, 60, 70</td>
<td>4</td>
</tr>
<tr>
<td>* - 4</td>
<td>40, 80, 12</td>
<td>5</td>
</tr>
</tbody>
</table>

Figure 34 - Supply Air Ductwork Mounting Bracket Assembly - RC017, RC018

<table>
<thead>
<tr>
<th>RC017/RC018</th>
<th>CAPACITY (CA)</th>
<th>D</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>* - 1</td>
<td>10, 15</td>
<td>24</td>
<td>12</td>
</tr>
<tr>
<td>* - 2</td>
<td>20, 25, 50</td>
<td>35</td>
<td>14</td>
</tr>
<tr>
<td>* - 3</td>
<td>30, 35, 60, 70</td>
<td>46</td>
<td>14</td>
</tr>
<tr>
<td>* - 4</td>
<td>40, 80, 12</td>
<td>51-1/2</td>
<td>16</td>
</tr>
</tbody>
</table>

Rooftop (RA) Arrangement | Capacity (CA) | A' |
--------------------------|--------------|----|
C, E                      | 10 thru 40   | 18 - 7/8 |
N, R                      | 20 or 40     | (479) |
C, E                      | 50 thru 80   | 19 - 3/8 |
J                         | 12           | 18 - 7/8 |
L                         | 50 thru 80   | (479) |
J                         | 20 thru 40   | 19 - 1/8 |
T                         | 20 or 40     | (486) |
J                         | 50 thru 80   | 19 - 1/4 |
L                         | 10 thru 40   | (489) |
W                         | 20 or 40     | |

† Dimensions are in inches.
(Dimensions in parenthesis are in millimeters.)
NA = Not Applicable