



62X 03-35 Dedicated Vertical or Horizontal Outdoor Air Unit with Optional Energy Conservation Wheel Roof Curb Accessory

Installation Instructions

Part Number CRRFCURBX****1

SAFETY CONSIDERATIONS

Installation and servicing of air-conditioning equipment can be hazardous due to system pressure and electrical components. Only trained and qualified service personnel should install, repair, or service air-conditioning equipment.

Untrained personnel can perform basic maintenance functions of cleaning coils and filters and replacing filters. All other operations should be performed by trained service personnel. When working on air-conditioning equipment, observe precautions in the literature, tags and labels attached to the unit, and other safety precautions that may apply.

Follow all safety codes, including ANSI (American National Standards Institute) Z223.1. Wear safety glasses and work gloves. Use quenching cloth for unbrazing operations. Have fire extinguisher available for all brazing operations.

WARNING

Electrical shock can cause personal injury and death. Shut off all power to this equipment during installation. There may be more than one disconnect switch. Tag all disconnect switch. Tag all disconnect locations to alert others not to restore power until work is completed.

WARNING

PERSONAL INJURY AND EQUIPMENT DAMAGE HAZARD

Failure to follow this warning could result in personal injury and/or damage to equipment.

Do not leave roof opening uncovered. If installation is not completed immediately after roof opening is cut and framed, provide an adequate temporary cover for the roof opening.

PACKAGE CONTENTS

Contents of packages will vary, but each curb will include all curb frame, dividers, supports and hardware to completely assemble curb. See attached curb assembly drawing for curb details. For package usage see Table 1.

INSTALLATION

These instructions show a typical installation for 62X curbs. A separate assembly drawing is provided with each curb shipped. Use this drawing for job specific curb dimensions and construction.

There are two different types of roof curbs in the 62X series:

- The first is the standard curb without a separate equipment support. These curbs are of varying sizes (see package usage) and have different types, sizes and quantities of internal supports. Figures 1 and 2 show 2 different examples of these curbs. Figure 1 has a 4 piece frame, 2 sides, and 2 ends. Figure 2 is a longer curb with 4 sides and 2 ends.

These curbs should be assembled with provided corner brackets and hardware as shown in Fig. 1 and 2. The longer curbs (Fig. 2) have a splice in the length of the curb sides. Install splice plate as shown in Fig. 2.

Install the supports in curb as shown on the drawing provided with the curb (quantity and location of the supports vary by curb model).

- The second type of curb is the same as the first except it also includes an equipment support. The assembly of the curb itself will be the same as the first. The equipment support is shipped assembled. Figure 3 shows a typical curb with equipment support. The exact location of the support is critical and is noted in 62X Installation Instructions. The equipment support is known as a sleeper rail and will support the condensing section of the unit.

NOTE: For detailed information on the curb dimensions, refer to the latest edition of Carrier's Dedicated Outdoor Air Systems builder.

- Before installing roof curb, ensure that curb is located so that proper clearances are maintained. Ensure that roof structural integrity is capable of supporting weight of rooftop unit. Refer to structural unit nameplate or unit installation instructions for correct clearances.
- Cut hole in roof for duct openings per instructions provided with 62X unit.
- Frame the roof opening to provide proper and adequate structural support.

Table 1 — Package Usage

CARRIER CURB PN	HEIGHT (in.)	CABINET	NUMBER OF CONDENSER FANS*	ERV OR EXHAUST FAN
CRRFCURBXAAA1	14	A	1, 2	Without
CRRFCURBXAABA1	14			With
CRRFCURBXBAAA1	14	B	1, 2	Without
CRRFCURBXBABA1	14			With
CRRFCURBXB3AA1	14		3	Without
CRRFCURBXB3BA1	14			With†
CRRFCURBXB4AA1	14		4	Without
CRRFCURBXB4BA1	14			With†
CRRFCURBXC2AA1	14	C	2	Without
CRRFCURBXC2BA1	14			With
CRRFCURBXC3AA1	14		3	Without
CRRFCURBXC3BA1	14			With
CRRFCURBXCBA1	14		4, 6	Without
CRRFCURBXCBB1	14			With†
CRRFCURBXDBAA1	14	D	4, 6	Without
CRRFCURBXDBBA1	14			With
CRRFCURBXBAAB1	14	B XL	1, 2	Without
CRRFCURBXBABB1	14			With
CRRFCURBXB3AB1	14		3	Without
CRRFCURBXB3BB1	14			With†
CRRFCURBXB4AB1	14		4	Without
CRRFCURBXB4BB1	14			With†
CRRFCURBXCAAB1	14	C XL	2	Without
CRRFCURBXCABB1	14			With
CRRFCURBXCBA1	14		4, 6	Without
CRRFCURBXCBB1	14			With†
CRRFCURBXC3AB1	14		3	Without
CRRFCURBXC3BB1	14			With
CRRFCURBXDCAB1	14	D XL	4, 6	Without
CRRFCURBXDCBB1	14			With

* Sleeper rail is included with any unit that has 3 or more condensing fans.

† ERV not available on B cabinet with 3 or 4 condenser fans or C cabinet with 6 condenser fans.

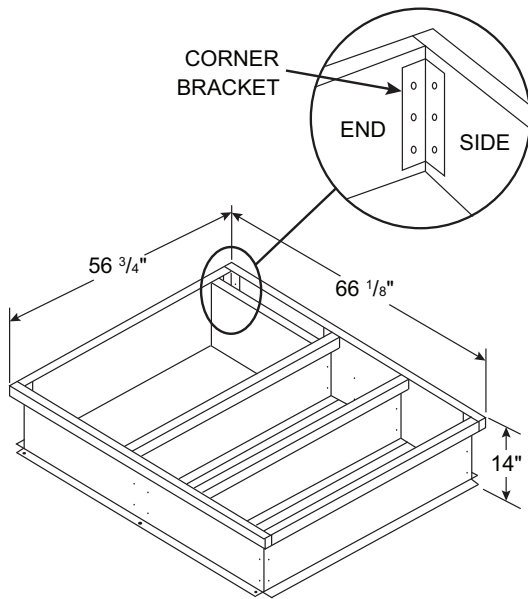


Fig. 1 — CRRFCURBXBAAA1 — Short Curb - No Equipment Support Example

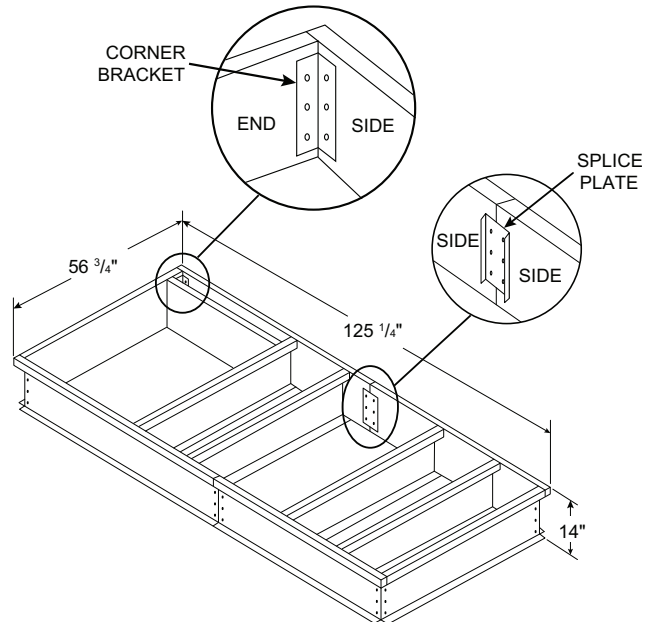


Fig. 2 — CRRFCURBXC2BA1 — Long Curb (XL Cabinet) - No Equipment Support Example

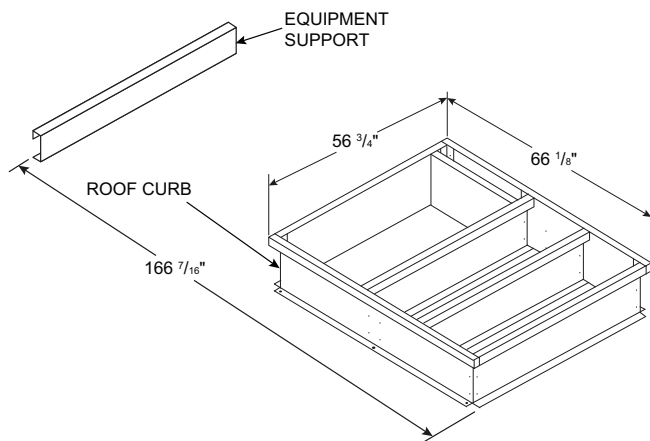


Fig. 3 — CRRFCURBXB3AA1 — Roof Curb with Equipment Support Example

4. Square up roof curb and position over duct openings cut in roof. Level the roof curb by placing shims under the bottom flange of the curb as needed. See Fig. 4 for unit leveling illustration.
5. Secure roof curb in place by welding or screwing curb to the roof structure. Follow all local and other applicable codes.
6. Roof-in curb as shown in Fig. 5 or other approved method.
7. Install duct in curb duct openings per unit instructions. Duct **MUST** be installed before unit is placed on roof curb.
8. Install provided gasket on top of roof curb around outer perimeter and around duct openings in curb. Gasket strips must fit tightly together to leave no gaps for leakage. See Fig. 5.

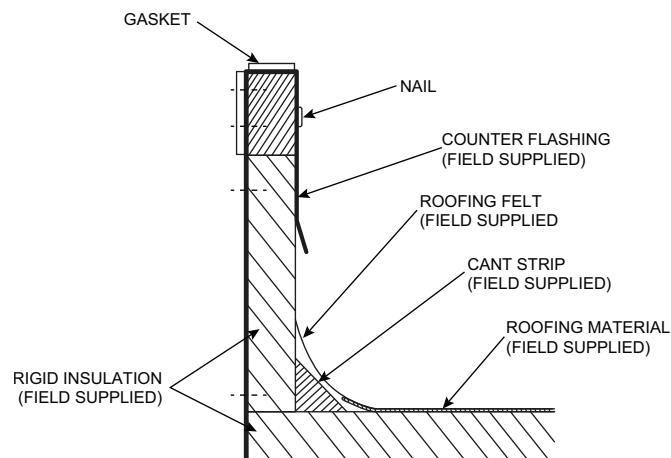


Fig. 5 — Roof Curb Weather Proofing (Flashing Roof-in Method Shown)

⚠ CAUTION

EQUIPMENT DAMAGE HAZARD

Failure to follow this warning could result in property damage.

Do not slide unit into position when it is sitting on the curb. Curb gasketing material may be damaged and leaks may result.

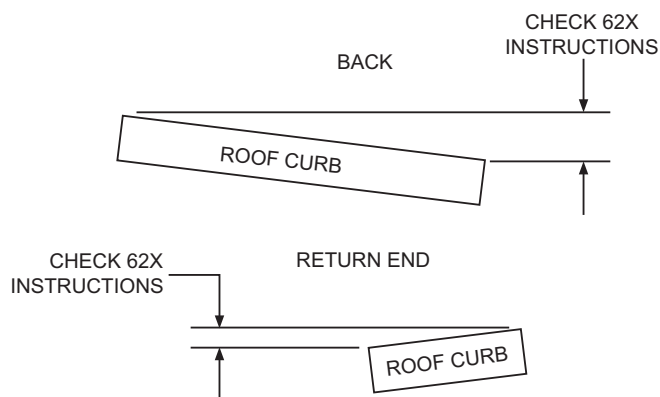


Fig. 4 — Unit Leveling Tolerances

