


# Installation Instructions

## 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.


When working on equipment, observe precautions in the literature, tags and labels attached to the unit, and other safety precautions that may apply.

Follow all safety codes. Wear safety glasses and work gloves.

Recognize safety information. This is the safety-alert symbol . When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

Understand the signal words DANGER, WARNING, and CAUTION. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies a hazard which **could** result in personal injury or death. CAUTION is used to identify unsafe practices which **may** result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which **will** result in enhanced installation, reliability, or operation.

## INSTALLATION


WARNING

**EQUIPMENT DAMAGE HAZARD**

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

To prevent injuries and rain damage, do not leave roof opening uncovered. If unit installation is not completed immediately after adapter curb is installed, provide an adequate temporary cover for the roof opening.

Follow all local, state, and other applicable codes when installing the accessory roof curb adapters.

Table 1 – Package Usage

MODEL	PART NUMBER	SIZE
48/50HC	CRADCURB010A00	17
	CRADCURB011A00	20 and 24
	CRADCURB012A00	28

Table 2 – Package Contents

DESCRIPTION	QTY
Fully Assembled Curb Adapter	1
Gasket	1
Bag of Screws	1

## FEATURES

- Fully assembled curb adapter.
- Includes internal duct transitions.
- Internally insulated with 1” - 1.5” insulation. Gasketing package provided.
- Adapter pans and supports provided/field installed.

## CURB ADAPTER INFORMATION

- To verify that the curb adapter shown in Fig. 2 - Fig. 4 is the correct adapter for your job, be sure the existing curb is the same size as dimensions provided. (The bottom dimensions of the curb adapter are larger than existing curb outside dimensions.)
- Before the new HVAC unit is set in place, inspect structural stability of existing curb and building’s roof load capability. Reinforce if required.
- All curb adapters will increase the systems external static pressure and must be included when calculating unit requirements. Curb adapters are designed to attach to an existing curb with side x side duct connections. The curb adapter is not designed for use with concentric duct configuration.
- No calculations are available for this product. For calculated product, please contact factory for part number, pricing and lead time.
- Please contact the factory for more detailed dimensional information, if required. Designs are based on standard factory dimensions, and may differ in the field.

## Step 1 — Locating the Horizontal Curb Adapter

There are many things to consider when locating the Horizontal Curb Adapter/ERV unit, including:

1. Structural support required from roof system.
2. Duct drop location in relation to joists.
3. Serviceability of the ERV unit.
4. Clearances required on the ERV unit.
5. Locations of vents or other sources of contaminated air which could negatively affect the quality of the outside air entering the ERV unit.

## Step 2 — Applying Gasket

Apply the supplied gasket to the entire upper perimeter of your roof curb and around the supply and return openings where the curb adapter and roof curb mate. Gasket strips must fit tightly together, leaving no gaps for leakage.

**IMPORTANT:** Gasketing is critical for water integrity. Improperly installed gasketing can result in air leaks and poor unit performance.

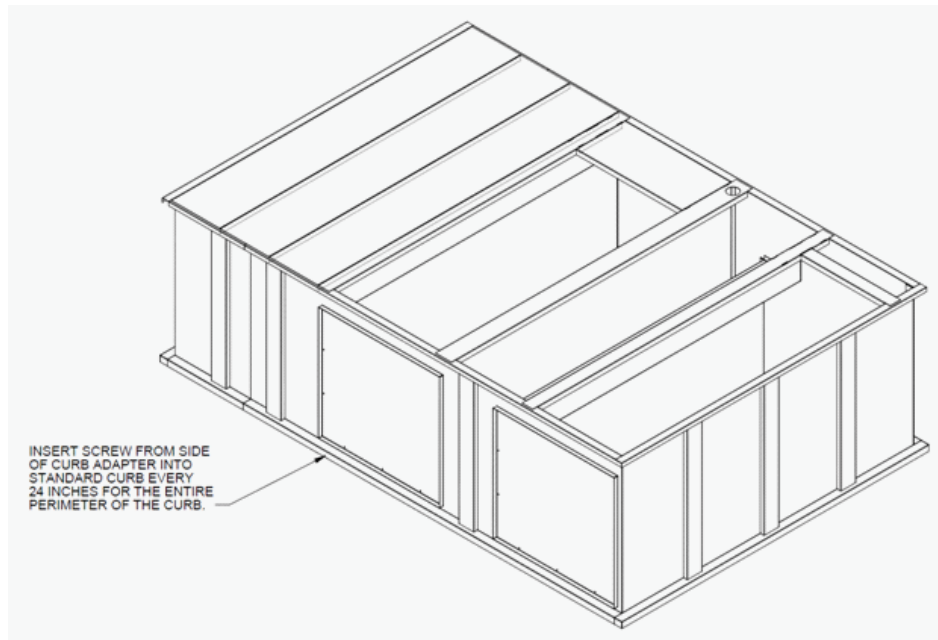
## Step 3 — Aligning the Horizontal Adapter Curb

Align the proper airflow paths in the curb adapter to those in your roof curb. Lower the curb adapter slowly into place, making sure the gasket is not damaged.

**NOTE:** If any gasket is damaged, it must be replaced to ensure a proper seal.

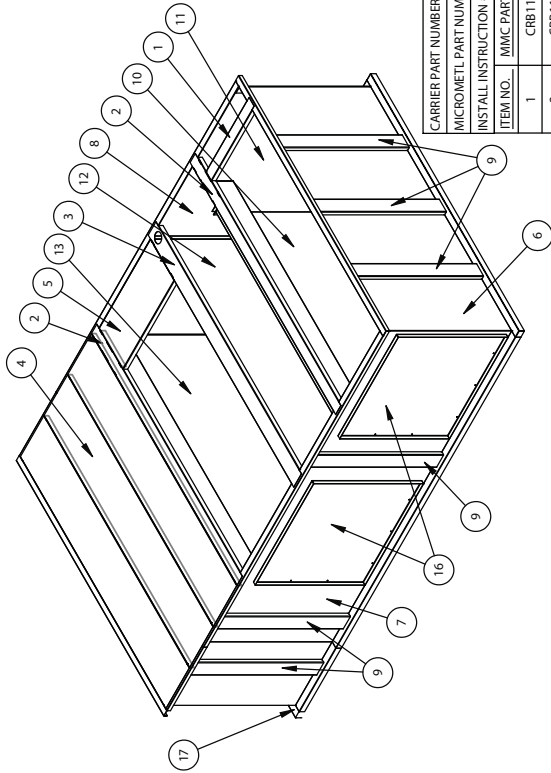
## Step 4 — Securing the Adapter Curb

Once the adapter curb has been safely lowered into place, the two pieces need secured together. Using the provided screws, insert a screw every 24" from the side, as shown in Fig. 1.

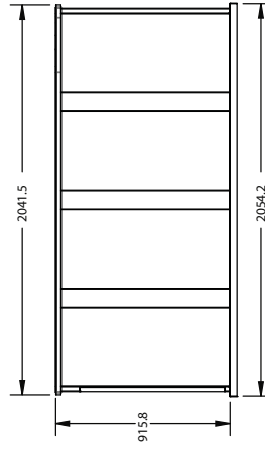
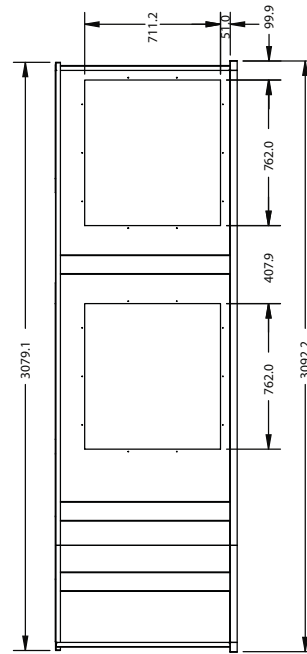
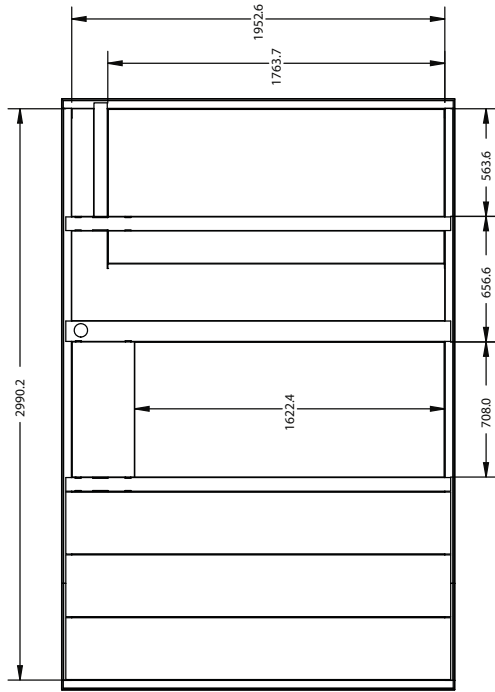


**Fig. 1 - Securing the Adapter Curb**

C12176



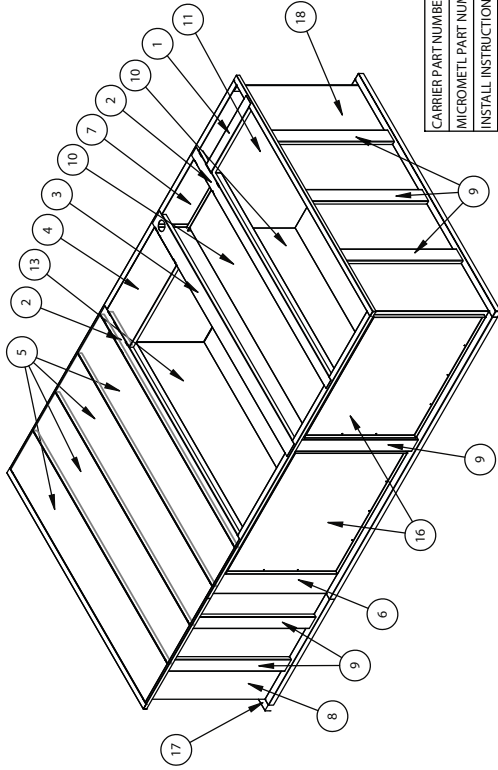
CARRIER PART NUMBER: CRADCURB010A00			
MICROMETL PART NUMBER: HE3F-W-HCRB			
INSTALL INSTRUCTION # IIK-CRADCURB01-01			
ITEM NO.	MMC PART NO.	DESCRIPTION	QTY.
1	CRB1149	VERTICAL SUPPORT	1
2	CRB1150	HORIZONTAL SUPPORT	2
3	CRB1151	HORIZONTAL SUPPORT WITH SOLE	1
4	CRB1152	DECK PAN-SF	3
5	CRB1153	VERTICAL DECK PAN	1
6	CRBHE0001	FRONT	1
7	CRBHE0002	SIDE A	1
8	CRBHE0003	SIDE B	1
9	CRBHE0005	VERTICAL SUPPORT	13
10	CRBHE0006	RETURN SHROUDA	1
11	CRBHE0007	RETURN SHROUD B	1
12	CRBHE0008	SUPPLY SHROUD A	1
13	CRBHE0009	SUPPLY SHROUD B	1
14	CRBHE0010	SUPPLY SHROUD C	1
15	CRBHE0011	RETURN SHROUD C	1
16	CRBHE0012	COVERS	3
17	CRBHE0014	REAR	1
18	CRBHE0030	SIDE A EXTENSION	1
19	CRBHE0031	SIDE B EXTENSION	1
20	CRBHE0032	SUPPORT PLATE	2



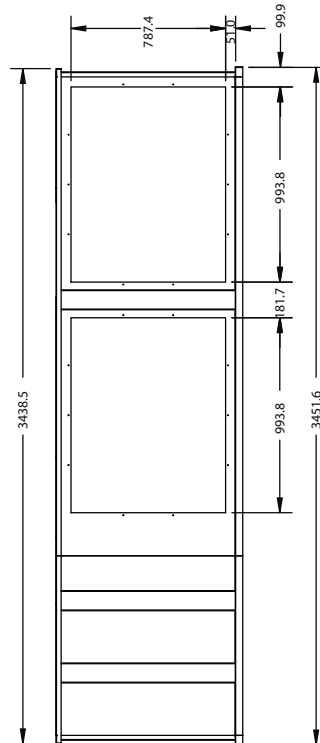
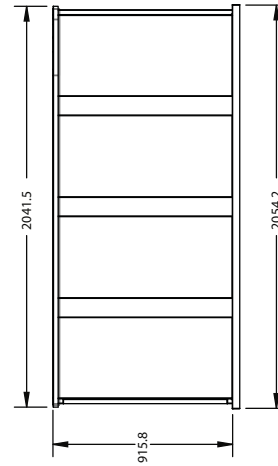
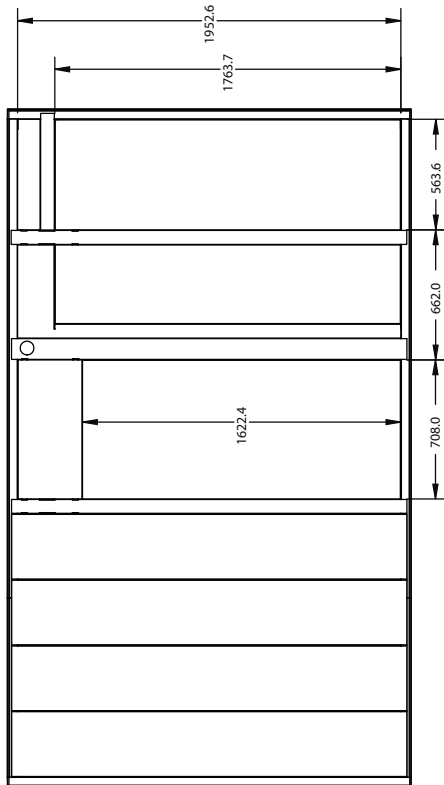
SIZE	DRAWING NUMBER	REV
D	48TM404345	-

NOTES:  
 1. SHIPS FULLY WELDED  
 2. INCLUDES ALL BOLTS  
 3. INCLUDES ALL GASKETS  
 4. WILL SIT ON STANDARD CURB

Fig. 2 - CRADCURB010A00 Horizontal Curb Adapter Assembly



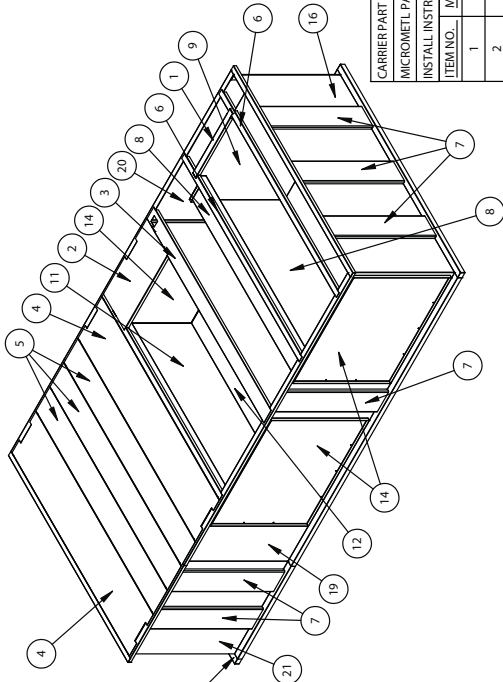
CARRIER PART NUMBER: CRADCURB011A00			
MICROMETL PART NUMBER: HE4F-W-HCRB			
INSTALL INSTRUCTION # IIC-CRADCURB01-01			
ITEM NO.	MMC PART NO.	DESCRIPTION	QTY.
1	CRB1149	VERTICAL SUPPORT	1
2	CRB1150	HORIZONTAL SUPPORT	2
3	CRB1151	HORIZONTAL SUPPORT WITH HOLE	1
4	CRB1153	VERTICAL DECK PAN	1
5	CRB1158	DECK PAN-4F	4
6	CRBHE0015	HORIZONTAL CURB, SIDE A	1
7	CRBHE0016	HORIZONTAL CURB, SIDE B	1
8	CRBHE0017	HORIZONTAL CURB, SIDE A	1
9	CRBHE0018	VERTICAL SUPPORT	13
10	CRBHE0019	RETURN SHROUD A	1
11	CRBHE0020	RETURN SHROUD B	1
12	CRBHE0021	SUPPLY SHROUD A	1
13	CRBHE0022	SUPPLY SHROUD B	1
14	CRBHE0023	SUPPLY SHROUD C	1
15	CRBHE0024	RETURN SHROUD C	1
16	CRBHE0025	COVERS	3
17	CRBHE0026	FRONT	1
18	CRBHE0027	REAR	1
19	CRBHE0028	HORIZONTAL CURB, SIDE B	1
20	CRBHE0029	SUPPORT PLATE	2



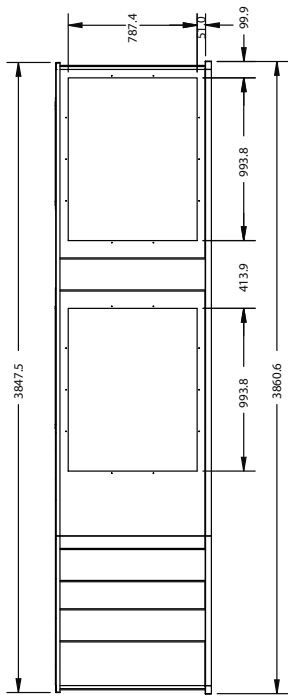
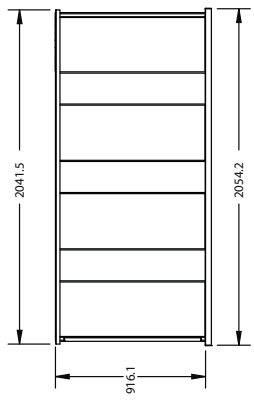
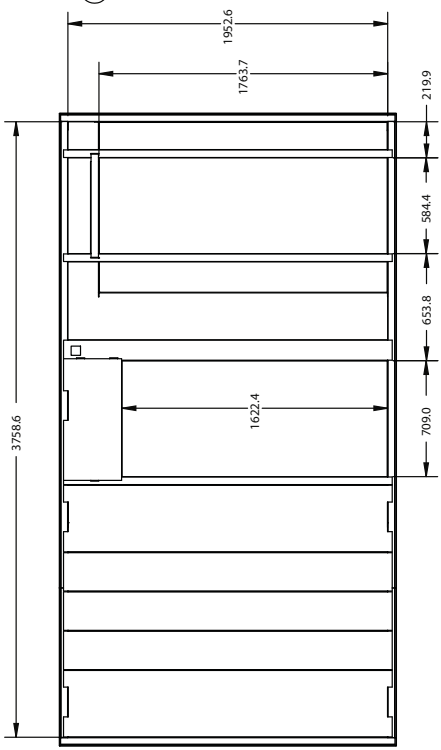
- NOTES:
- SHIPS FULLY WELDED
  - INSULATED DECK PANS
  - INCLUDE 25 LIP OF 1-1/2 X 1/4" GASKETING (9430-0100)
  - WILL SIT ON STANDARD CURB

DRAWING NUMBER	REV
48TM404345	-

Fig. 3 - CRADCURB011A00 Horizontal Curb Adapter Assembly



CARRIER PART NUMBER: CRADCURB012A00			
MICROMETL PART NUMBER: HEGF-WH-CRB			
INSTALL INSTRUCTION # IIK-CRADCURB01-01			
ITEM NO.	MMIC PART NO.	DESCRIPTION	QTY.
1	0403565A	R/A SUPPORT	1
2	0403566A	S/A SUPPORT	1
3	0403567A	A. CROSS SUPPORT	1
4	0403580A	DECK PAN A	2
5	0403581A	DECK PAN B	3
6	0403599A	CROSS SUPPORT	3
7	CRBHE0033	VERTICAL SUPPORT	13
8	CRBHE0034	RETURN SHROUD A	1
9	CRBHE0035	RETURN SHROUD B	1
10	CRBHE0036	SUPPLY SHROUD A	1
11	CRBHE0037	SUPPLY SHROUD B	1
12	CRBHE0038	SUPPLY SHROUD C	1
13	CRBHE0039	RETURN SHROUD C	1
14	CRBHE0040	COVERS	3
15	CRBHE0041	FRONT	1
16	CRBHE0042	REAR	1
17	CRBHE0043	HORIZONTAL CURB, SIDE B	1
18	CRBHE0044	SUPPORT PLATE	2
19	CRBHE0046	HORIZONTAL CURB, SIDE A	1
20	CRBHE0047	HORIZONTAL CURB, SIDE B	1
21	CRBHE0048	HORIZONTAL CURB, SIDE A	1



SIZE	D
DRAWING NUMBER	48TM404345
REV	-

NOTES:  
 1. SHIPS FULLY WELDED  
 2. INSULATED DECK PANS  
 3. INCLUDE 25 L/F OF 1-1/2 X 1/4" GASKETING (9430-0100)  
 4. WILL SIT ON STANDARD CURB

Fig. 4 - CRADCURB012A00 Horizontal Curb Adapter Assembly

