Installation Instructions

Roof Curb
Precedent™ Packaged Rooftop Units

SAFETY WARNING
Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.

Model Numbers: Used with:

BAYCURB042A T/YSC036-060E, T/YHC036E, T/YHC037E, WSC036-048E, WSC060ED
BAYCURB043A T/YSC072-102E, T/YSC120F, T/YHC047-120E, T/YHC092F, WSC060-090E, WSC072-120ED
BAYCURB044A T/YHC092-120E, WSC120E

April 2011

ACC-SVN43E-EN
Warnings, Cautions and Notices

Warnings, Cautions and Notices. Note that warnings, cautions and notices appear at appropriate intervals throughout this manual. Warnings are provided to alert installing contractors to potential hazards that could result in personal injury or death. Cautions are designed to alert personnel to hazardous situations that could result in personal injury, while notices indicate a situation that could result in equipment or property-damage-only accidents. Your personal safety and the proper operation of this machine depend upon the strict observance of these precautions.

### ATTENTION:
Warnings, Cautions and Notices appear at appropriate sections throughout this literature. Read these carefully.

**WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION:** Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It could also be used to alert against unsafe practices.

**NOTICE:** Indicates a situation that could result in equipment or property-damage-only accidents.

### Important

**Environmental Concerns!**
Scientific research has shown that certain man-made chemicals can affect the earth’s naturally occurring stratospheric ozone layer when released to the atmosphere. In particular, several of the identified chemicals that may affect the ozone layer are refrigerants that contain Chlorine, Fluorine and Carbon (CFCs) and those containing Hydrogen, Chlorine, Fluorine and Carbon (HCFCs). Not all refrigerants containing these compounds have the same potential impact to the environment. Trane advocates the responsible handling of all refrigerants—including industry replacements for CFCs such as HCFCs and HFCs.

**Responsible Refrigerant Practices!**
Trane believes that responsible refrigerant practices are important to the environment, our customers, and the air conditioning industry. All technicians who handle refrigerants must be certified. The Federal Clean Air Act (Section 608) sets forth the requirements for handling, reclaiming, recovering and recycling of certain refrigerants and the equipment that is used in these service procedures. In addition, some states or municipalities may have additional requirements that must also be adhered to for responsible management of refrigerants. Know the applicable laws and follow them.

**WARNING**

**Personal Protective Equipment (PPE) Required!**
Installing/servicing this unit could result in exposure to electrical, mechanical and chemical hazards.

- Before installing/servicing this unit, technicians MUST put on all Personal Protective Equipment (PPE) recommended for the work being undertaken. ALWAYS refer to appropriate MSDS sheets and OSHA guidelines for proper PPE.
- When working with or around hazardous chemicals, ALWAYS refer to the appropriate MSDS sheets and OSHA guidelines for information on allowable personal exposure levels, proper respiratory protection and handling recommendations.
- If there is a risk of arc or flash, technicians MUST put on all necessary Personal Protective Equipment (PPE) in accordance with NFPA70E for arc/flash protection PRIOR to servicing the unit.

Failure to follow recommendations could result in death or serious injury.
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General Information

General

This manual describes the layout and installation procedures required to properly assemble and install the roof curb. Illustrations in Figure 7, p. 9 for T/YSC036-060E, T/YHC036E, T/YHC037E, WSC036-048E, WSC060ED units, or Figure 14, p. 12 for T/YSC072-102E, T/YSC120F, T/YHC047-067E, T/YHC092F, WSC060-090E, WSC120ED units or Figure 21, p. 16 for T/YHC092-120E, WSC120E units, are provided for dimensional data regarding roof opening construction.

Each curb package ships unassembled, along with the required hardware and gasketing material. Roof insulation, cant strips, flashing (if desired), nails, and sheet metal screws must be furnished by the installing contractor.

Important: DO NOT discard EPS foam panels included in this kit. They are used for insulating the condenser section of the roof curb. Follow instructions for installation.

Initial Inspection

Compare the order number on the shipping label with the accessory identification information on the ordering and shipping documents to verify that the correct accessory has been received.

Clearances

The recommended clearances for single-unit installations are illustrated in Figure 6, p. 8 for T/YSC036-060E, T/YHC036E, T/YHC037E, WSC036-048E, WSC060ED units or Figure 13, p. 12 for T/YSC072-102E, T/YSC120F, T/YHC047-067E, T/YHC092F, WSC060-090E, WSC120ED units or Figure 20, p. 15 for T/YHC092-120E, WSC120E units.

These minimum requirements are not only an important consideration when determining unit placement, but they are also essential to ensure adequate serviceability, maximum capacity, and peak operation efficiency.

Any reduction of the unit clearances indicated in these illustrations may result in condenser coil starvation, or the recirculation of warm condenser air. Actual clearances which appear to be inadequate should be reviewed with a local sales engineer.
Installation

Read the entire manual carefully to become familiar with the roof curb installation procedures. If the roof curb will be mounted on a new building, it can be assembled at any convenient location and installed as soon as the roof support members are in place. As a general rule, the curb should be placed directly on the roof support members. Use tack welding or other suitable fastening method to secure the roof curb in place.

The curb can also be mounted on a roof deck. In this case, additional nailing plates must be provided directly below the flanges of the curb to give further support and to minimize vibration. See Figure 22, p. 16 and Figure 23, p. 17.

When the installation is on an existing building, hoist the shipping container directly onto the roof.

Supply and Return Air Ductwork

All ductwork must be run and attached to the curb before the unit is set into place.

All ductwork must be fabricated and installed by the installing contractor. To ensure proper duct construction and installation, SMACNA recommendations should be closely followed.

Note: All field fabricated panels used must be insulated. (See Figure 5, p. 8, Figure 12, p. 11, or Figure 19, p. 15).

Roof Opening

For safety and sound considerations, do not cut out the entire roof deck within the curb area.

Roof Support

⚠️ WARNING
Heavy Objects!

The roof must be capable of adequately supporting the weight of the rooftop unit as well as that of the curb. If unsure, you MUST contact a structural engineer for guidance. Failure to follow recommendations could result in the roof collapsing which could result in death, serious injury, and property damage.

Important: Refer to Figure 24, p. 19, Table 1, p. 17, Table 2, p. 18 and Table 3, p. 18 for specific center-of-gravity, corner weight information and accessory weights.

Units may be set either lateral or parallel to the roof support members. The combined weight of the unit, accessories, and curb should be evenly spaced between a minimum of two (2) supports.

Ensure that the curb’s position on the roof supports does not interfere with the clearance required for the supply/return ductwork. See Figure 7, p. 9 for T/YSC036-060E, T/YHC036E, T/YHC037E, WSC036-048E, WSC060ED units or Figure 14, p. 12 for T/YSC072-102E, T/YSC120F, T/YHC047-067E, T/YHC092F, WSC060-090E, WSC120ED units or Figure 21, p. 16 for T/YHC092-120E and WSC120E units.

Note: For convenience, it is suggested that the starting collars for the supply and return ductwork be installed before the curb is placed into position.
Roof Curb Installation for BAYCURB042A

T/YSC036-060E, T/YHC036E, T/YHC037E, WSC036-048E, WSC060ED

Parts List

- 2 ends
- 2 sides
- 3 long duct supports
- 2 short duct supports
- 3 insulation supports
- 2 sheets of EPS foam insulation
- Gasket
- These instructions

There are more attachment locations (raised triangular shaped corner slots) than actual component attachments; to assemble the roof curb, you will need a tape measure to assure components are in the correct orientation. Locate the correct attachment slots for the internal supports using the dimensions from the diagram.

1. Set the two (2) sides and two (2) ends on a flat surface to form a square, with the wood nailers facing the outside. Assembling a long duct support at this point will hold the sides in place while fastening ends.

2. Screw the sides and ends together with the 1/4x5/8 screws provided.

3. Assemble a long (37.42") duct support between the two sides: insert the first duct support 14.6" from either end by inserting the tabs on each end of the duct support into the appropriate triangular shaped slots. See Figure 1.

4. Insert the other two long duct supports as shown. See Figure 2, p. 7. Verify the 4.88" and 16.75" dimensions between long duct supports.
5. Locate the position for the short duct support, 10.49” from the side, that fits between the first long duct support and the end. Insert the support flanges into the appropriate corner catches. Verify the 10.49” dimension. See Figure 3.

6. Insert the second short duct support between the middle and right long duct supports. Verify the 17.84” dimension from the duct support to the side. See Figure 3.

7. Insert the three (3) insulation supports between the right end and the closest long duct support, being sure to insert the tabs into the slots in the top of the end piece. See Figure 3.

8. Install insulation and gasket. See Figure 4 and Figure 5, p. 8.

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Figure 2. Step two

Figure 3. Step three

Figure 4. Step four
Figure 5. Step five

Figure 6. Curb dimensional data T/YSC036-060E, T/YHC036E, T/YHC037E, WSC036-060ED
Roof Curb Installation for BAYCURB043A

T/YSC072-102E, T/YSC120E, T/YHC047-072E, T/YHC092E, WSC060-090E, WSC120ED

Parts List

- 2 ends
- 2 sides
- 3 long duct supports
- 2 short duct supports
- 3 insulation supports
- 3 sheets of EPS foam insulation
- Gasket
- These instructions

There are more attachment locations (raised triangular shaped corner slots) than actual component attachments, so to assemble the roof curb, you will need a tape measure to assure components are in the correct orientation. Use the dimensions from the diagram to locate the correct attachment slots for the internal supports.

1. Set the two (2) sides and two (2) ends on a flat surface to form a square, with the wood nailers facing the outside. See Figure 8. Assembling a long duct support at this point will hold the sides in place while fastening ends.
2. Screw the sides and ends together with the 1/4x5/8 screws provided.

3. Assemble a long (46.18") duct support between the two sides (Return section): insert the first duct support 18.25” from either end by inserting the tabs on each end of the duct support into the appropriate triangular shaped slots. See Figure 9.

4. Insert the other two long duct supports as shown on the top view (Supply Section). See Figure 9. Verify the 5.18” and 18.5” dimensions between long duct supports.

5. At 10.25” from the side, locate the position for the short duct support that fits between the first long duct support and the end. Insert the support flanges into the appropriate corner catches. Verify the 10.25” dimension. See Figure 10, p. 11.
6. Insert the second short duct support between the middle and right long duct supports. Verify the 10.25" dimension from the duct support to the side (in line with previously assembled short duct support). See Figure 10.

7. Insert the three (3) insulation supports between the right end and the closest long duct support, being sure to insert the tabs into the slots in the top of the end piece. See Figure 11.

8. Install three pieces of foam insulation and gasket. See Figure 12.
Note: Curb plenum drops/duct inserts were designed and tested to hold 250 lbs. Please ensure that duct drops are supported per local building codes.
Roof Curb Installation for BAYCURB044A
T/YHC092-120E, WSC120E

Parts List

- 2 ends
- 2 sides
- 3 long duct supports
- 2 short duct supports
- 4 insulation supports
- 3 sheets of EPS foam insulation
- Gasket

These instructions

There are more attachment locations (raised triangular shaped corner slots) than actual component attachments, so to assemble the roof curb, you will need a tape measure to assure components are in the correct orientation. Use the dimensions from the diagram to locate the correct attachment slots for the internal supports.

1. Set the two (2) sides and two (2) ends on a flat surface to form a square, with the wood nailers facing the outside (see Figure 15). Assembling a long duct support at this point will hold the sides in place while fastening ends.

Figure 15. Step one

2. Screw the sides and ends together with the 1/4x5/8 screws provided.

3. Assemble a long (56.42") duct support between the two sides (Return section): insert the first duct support 18.46 inches from either end by inserting the tabs on each end of the duct support into the appropriate triangular shaped slots (see Figure 16, p. 14).
4. Insert the other two long duct supports as shown on the top view (Supply Section). See Figure 16. Verify the 5.10" and 18.45" dimensions between long duct supports.

5. At 20.25" from the side, locate the position for the short duct support that fits between the first long duct support and the end. Insert the support flanges into the appropriate corner catches. Verify the 20.25" dimension (see Figure 17).

6. Insert the second short duct support between the middle and right long duct supports. Verify the 20.25" dimension from the duct support to the side (in line with previously assembled short duct support). See Figure 17.

7. Insert the four (4) insulation supports between the right end and the closest long duct support, being sure to insert the tabs into the slots in the top of the end piece. See Figure 17.

8. Install three pieces of foam insulation and gasket. See Figure 18, p. 15 and Figure 19, p. 15.
Figure 18. Step four

Figure 19. Step five

Figure 20. Curb dimensional data — T/YHC092-120E,WSC120E
**Note:** Curb plenum drops/duct inserts were designed and tested to hold 250 lbs. Please ensure that duct drops are supported per local building codes.

**Figure 21. Curb dimensional data — T/YHC092-120E,WSC120E**

![Curb dimensional data diagram](image)

**Figure 22. Roof construction**

![Roof construction diagram](image)
**Figure 23. Existing roof construction**

![Diagram of existing roof construction](image)

**Table 1. Cooling corner weights and center of gravity**

<table>
<thead>
<tr>
<th>Unit Model</th>
<th>Shipping Weight (lbs)</th>
<th>Net Weight (lbs)</th>
<th>Corner Weight</th>
<th>Center of Grav.</th>
</tr>
</thead>
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<tr>
<td></td>
<td></td>
<td></td>
<td>A</td>
<td>B</td>
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<tr>
<td>TSC036E</td>
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<td>TSC048E</td>
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<td>561</td>
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<td>142</td>
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<td>TSC072E</td>
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<td>187</td>
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<td>TSC090E</td>
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<td>739</td>
<td>235</td>
<td>196</td>
</tr>
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<td>358</td>
<td>147</td>
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<td>TSC102E</td>
<td>1048</td>
<td>905</td>
<td>359</td>
<td>161</td>
</tr>
<tr>
<td>TSC120F</td>
<td>1058</td>
<td>960</td>
<td>320</td>
<td>218</td>
</tr>
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<td>THC036E/THC037E</td>
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<td>144</td>
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<td>THC047E/THC048E</td>
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<td>220</td>
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<td>746</td>
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<td>209</td>
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<td>THC120E</td>
<td>1462</td>
<td>1245</td>
<td>353</td>
<td>332</td>
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</table>

**Note:** Corner weights are given for information only. Unit is to be supported continuously by a curb or equivalent frame support.
## Installation

### Table 2. Gas heating corner weight and center of gravity

<table>
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<tr>
<th>Unit Model</th>
<th>Shipping Weight (lbs)</th>
<th>Net Weight (lbs)</th>
<th>Corner Wt. (lbs)</th>
<th>Center of Gravity (In.)</th>
<th>Length</th>
<th>Width</th>
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</thead>
<tbody>
<tr>
<td>YSC036E</td>
<td>607</td>
<td>532</td>
<td>165</td>
<td>137</td>
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<td>YSC048E</td>
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<td>563</td>
<td>175</td>
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<td>200</td>
<td>148</td>
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<td>YHC072E</td>
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*Note:* Corner weights are given for information only. Unit is to be supported continuously by a curb or equivalent frame support.

### Table 3. Heat pump corner weight and center of gravity

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<tr>
<th>Unit Model</th>
<th>Shipping Weight (lbs)</th>
<th>Net Weight (lbs)</th>
<th>Corner Wt. (lbs)</th>
<th>Center of Gravity (In.)</th>
<th>Length</th>
<th>Width</th>
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<td>WSC036E</td>
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*Note:* Corner weights are given for information only. Unit is to be supported continuously by a curb or equivalent frame support.
Figure 24. Center of gravity

Figure 25. Center of gravity
### Table 1. Factory installed options (FIOPS) / accessory net weights (lbs)\(^{ab}\)

<table>
<thead>
<tr>
<th>Option/Accessory Description</th>
<th>T/YHC036E, T/YHC037E, WSC036E-048E, WSC060ED</th>
<th>T/YHC047-067E, WSC060E</th>
<th>T/YHC072E, T/YSC072-102E, WSC072-090E</th>
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(a) Weights for options not listed are < 5 lbs.
(b) Net weight should be added to unit weight when ordering factory-installed accessories.
(c) Apply weight with all 460V units with the Standard Direct Drive Motor.
(d) Applicable to Cooling and Heat Pump units only.
(e) Applicable to Gas / Electric units only.

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Supersedes ACC-SVN43D-EN (Jul 2009)