

INSTALLATION GUIDE





Please Help Us Improve This Manual

We would be very interested to hear any comments you might have on this new installation manual. We are particularly interested in learning of omissions or subjects that are unclear. Please call, fax, or e-mail and direct your comments to Technical Service. Thank you very much for your assistance.

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1. Overview

The Tate CRAC Hood is the factory recommended AC Extension for both cold and hot aisle containment because it combines cost-effectiveness and ease of installation. Over the long-term the CRAC Hood will also reduce “total cost of ownership” by making it easier to fully separate cold supply and hot exhaust airflow. The sturdy pre-painted metal frame will last a long time. Other features include a door system for AC units with pre-filters.

As shown in Figures 1 and 2, the CRAC Hood is installed on the top of the AC unit.

It covers the entire return section of the AC unit.

The CRAC Hood goes all the way up to the bottom of the drop ceiling grid.

This system ensures that only hot and dry air reach the AC coils. This can increase cooling capacity by more than 200%.

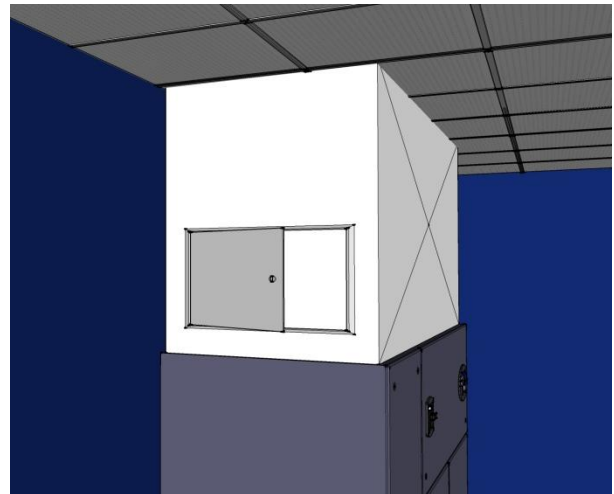


Figure 1: CRAC Hood Side

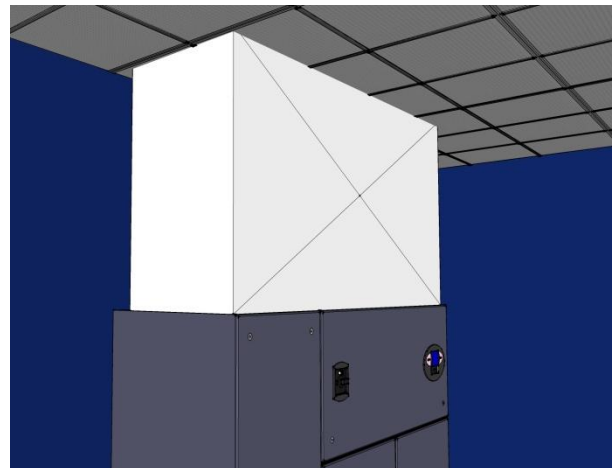


Figure 2: CRAC Hood Front

2. Safety and Quality Assurance

The following recommendations should be carefully observed as part of any CRAC Hood installation. In particular, the safety of the installers must be placed ahead of all other considerations. Some of the following warnings or cautions have been highlighted in the appropriate sections of the manual.

- **DO** read this Installation Guide thoroughly prior to beginning any work.
- **DO NOT** lift the CRAC Hood alone.
- **DO** follow all OSHA suggested practices for use in elevated places.
- **DO NOT** support installation personnel on the AC unit.
- **ALWAYS** have at least two people installing the CRAC Hood.
- **ALWAYS** wear personal protective equipment (PPE) PPE includes: Gloves, Safety eyeglasses, Hardhats.
- **NEVER** leave the CRAC Hood unattended (secured) until the installation is completed.

3. Cautions and Warnings

This manual contains important information of the installation of your CRAC Hood. We strongly recommend that you read and follow the instructions contained in this manual.

At several points in the manual there may be items of special interest or significant impact which are highlighted by one of the following notices.

Warning:

Hazards or unsafe practices that could cause personal injury or death.



Caution:

Hazards or unsafe practices that could cause product damage..



Note:

Significant points of interest.

4. Components

Note:

Please refer to the ContainAire Application Guide for additional information and to determine proper product selections.

- 100 x Self tapping Screw, 12-24, 0.5" L
Coated steel hex washer head

The CRAC Hood comes in four pieces.

- Two ends with or without a door (the door is optional and only used on units that require access through the CRAC Hood.

Note:

Most AC units provide side access for maintenance through a side door on the AC unit. Thus most AC extensions do not require a door access.

- Two side panels that connect into the ends.

Each clips together with S joints.



Figure 4: There are four S joints where the two long sides meet the two corner sides.



Figure 3: Side view of CRAC Hood

5. Assembly

1. Prior to installation remove the drop ceiling tiles that the CRAC Hood unit will surround.

Be sure that the drop ceiling tiles extend no more than one inch from the side of the extension inward. This is to prevent undue blockage that may increase return air pressure.

2. Slide the one long side panel into the S joint of the end panel.

Ensure that the painted metal is on the outside.

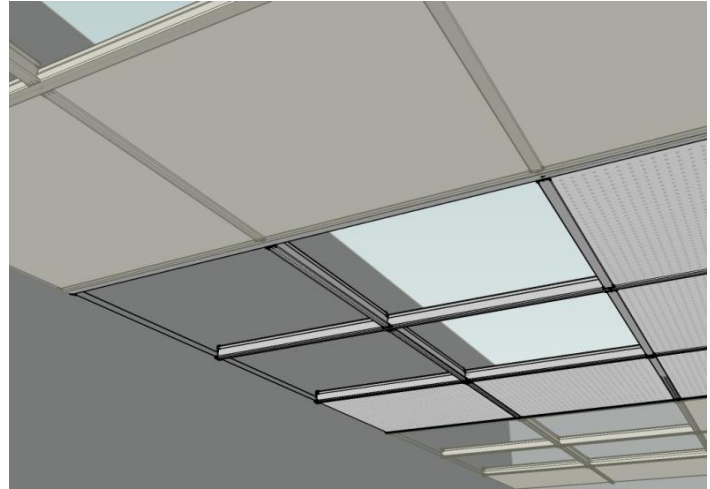


Figure 3: Clear path for air in drop ceiling.

3. Slide the opposite end panel to the other end of the side panel.
4. Slide the other side panel into both S joints on the opposite side.
5. Screw the two top corner flanges where they meet. This will add to the stability.

You should now have a full rectangle with all four-painted side facing out. Each corner flanges at the top (facing in) should each have a screw connecting them.

Caution:

The steel sides can be sharp. Be sure to wear gloves. Also during the drilling of the screws to attach the top flanges wear OSHA approved safety glasses.



Note:

As an option you can put a gasket on the top flange. This can be used to seal the top of the CRAC Hood to the drop ceiling.

6. Using two people lift the CRAC Hood into place on top of the AC unit frame.

The frame should be inside of the AC units "skin". Ensure that the bottom flange is around the AC frame.

7. Drill and screw the CRAC Hood onto the AC frame.

It is recommended to use one screw every 12 inches.

6. Additional Information

We are including additional detail views of the CRAC Hood.



Figure 4: Access door



Figure 5: Access door hinge



Figure 6: Fully assembled CRAC Extension on floor