Eaton® Heat Containment System (HCS) Chimney

Installation Guide
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About this Guide

This document describes how to install the Eaton® HCS Chimney on an existing HCS chimney base. The instructions in this document apply to all HCS Chimney series models with the part numbers HCSCHM#####. These chimneys can only be installed on chimney base part numbers HCS#####A or HCS#####B.

Audience
This document is intended for installers and/or personnel who are installing the Eaton HCS Chimney in your facility.

General Conventions
Before you start the installation process, it is important to understand the conventions used in this publication.

<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
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<tr>
<td><strong>Bold type</strong></td>
<td>Indicates notes, cautions or warnings that provide important information. Failure to follow these warnings may cause personal injury and/or product damage.</td>
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<tr>
<td><strong>Italic type</strong></td>
<td>Indicates titles of publications or information that the user must supply, such as filenames (if applicable).</td>
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<tr>
<td><strong>Underlined type</strong></td>
<td>Indicates links (if applicable).</td>
</tr>
<tr>
<td>1. Numbered lists</td>
<td>Indicates procedures that you must follow in a sequential order.</td>
</tr>
<tr>
<td><strong>ACRONYMS</strong></td>
<td>Defined at the first occurrence in the document. The acronym definition appears first followed by its acronym in parenthesis. For example: electrostatic discharge (ESD).</td>
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CAUTION: Failure to comply with safety standards in handling your equipment may result in electrical shock.

Documentation
This document can be obtained from our website at [http://www.wrightline.com](http://www.wrightline.com) by following these procedures:

1. Click on the “Library” icon.
2. Click on the “Installation Manuals” link, and then select the “Data Center” option.
3. Under the Data Center section, go to the Airflow / Thermal section and click on the “HCS Chimney Installation Manual” documentation link to view this manual.
Chapter 1  Before you Begin

Introduction
This chapter describes the tools you will need and the requirements that must be met prior to installing the Eaton HCS Chimney.

Tools you Will Need
You will need the following tools to successfully install the HCS Chimney:

- Common installation tools
- Utility knife
- #2 Phillips screwdriver bit

Prerequisites
Prior to installing the HCS chimney, the following requirements must be met:

- Install the HCS chimney base
- Ensure there is adequate clearance between the chimney base and the ceiling
- There must be an exhaust vent hole no larger than 17” x 23” above the chimney base
- Unpack all chimney components
- Ensure you have common installation tools including a utility knife and a #2 Phillips screwdriver
Chapter 2 Installing the HCS Chimney

Introduction
This chapter describes how to install the HCS Chimney on an existing HCS chimney base within an Eaton heat containment system equipped enclosure. The Eaton HCS efficiently isolates exhaust and intake airflows. Hot air is directed up and away from equipment to the computer room air conditioning (CRAC) system or overhead air plenum; hence, intake air is not contaminated with exhaust air.

The chimney installation applies to all HCS Chimneys with model numbers HCSCHM####. The chimneys can only be installed on chimney base part numbers HCS####A or HCS####B.

For chimney dimensions, refer to the “Chimney Dimensions” table in this chapter.

In this Chapter
Refer to the following table for information on a specific topic.

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Installing the HCS Chimney

Unpack the Box
Before you begin the installation process, ensure that the following parts are included in your shipment. If any components are missing, please contact Technical Support at dc.support@eaton.com.

Components for Chimney Model 17501241

The following table lists the chimney components illustrated above along with the quantity of each component. Your components list may vary depending on the chimney model you ordered.

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Number</th>
<th>Part</th>
<th>Qty</th>
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<tr>
<td>1</td>
<td>81615</td>
<td>&quot;U&quot; Type Nut</td>
<td>16</td>
</tr>
<tr>
<td>2</td>
<td>54225</td>
<td>#10, Flat Washer</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>66714</td>
<td>Pan Head Swageform Screw</td>
<td>16</td>
</tr>
<tr>
<td>4</td>
<td>87442</td>
<td>#10-32 Phillips Screw</td>
<td>7</td>
</tr>
<tr>
<td>5</td>
<td>93346</td>
<td>#10-32 Locknut, Nylon Insert</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>24123X</td>
<td>Chimney Side, Front and Rear</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>24124X</td>
<td>Chimney Side, Left and Right</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>24125X</td>
<td>Trim Angle, Front and Rear, 30° W</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>24126X</td>
<td>Trim Angle, Side Left and Right</td>
<td>2</td>
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Chimney Dimensions for Model 17501241
See the following diagrams for inside and outside chimney dimensions for model 17501241. Depending on the chimney model you ordered, the dimensions may vary from those shown here.

Top View Inside and Outside Dimensions

**Inside:** 27.26” W x 15.37” H
**Outside:** 30.08” W x 17.47” H

Front View Dimensions

**Outside:** 29.63” W
**Height:** Height varies based on model number. The model shown below includes a 2” adjustable piece
Installing the HCS Chimney

Chimney End Panel View Dimensions

**Outside:** 15.47" W x 9.00" H

Assemble the HCS Chimney

Follow these instructions to assemble the HCS Chimney on an existing HCS chimney base.

1. Insert eight U-shaped nuts (81615) into the slots in the chimney left side panel and eight in the right side panel (24124x) as shown below. In total, you need to install 16 U-shaped nuts.
2. Assemble the front and rear chimney side panels (24123x) to the left and right chimney side panels (24124x) as shown. The flanges slide into the matching side panel flanges. The holes in the flanges must align.

3. Insert twelve (12) pan head swageform screws (66714) in the holes and tighten to secure the four panels together.
4. Assemble the left and right side trim angles (24126x) to the chimney as shown below and secure with four (4) #10 flat washers (54225) and four (4) #10-32 nylon insert locknuts (93346). Do not tighten locknuts at this time.

5. Assemble the front and rear trim angles (24125x) to the chimney as shown below.

6. Insert four (4) pan head swageform screws (66714) through the front and rear trim angles as shown below. Do not tighten at this time.
Install the Chimney

Follow these instructions to install the chimney on an existing HCS chimney base.

1. Align the assembled chimney over the chimney base as shown on the following page. Lower the chimney until the holes in the end panels align with the threaded holes in the base.

2. From the interior of the chimney, insert seven (7) #10-32 Phillips screws (87442) through the holes in the chimney base and tighten as shown below.

3. Adjust the trim angles to the proper height and tighten all locknuts and screws. The chimney installation is now complete.
Chapter 3  Service and Support

If you have any questions or problems with this product, contact us at:

**Technical Support**
Send an email and detailed description of the problem as well as contact information to Technical Support at to.support@eaton.com.

**Sales Representative**
Contact your Eaton Sales representative by one of the methods below.

**Phone**
Call us toll free at 800.225.7348 (US Only) or 508.852.4300

**Mail**
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160 Gold Star Boulevard
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**Web**
Visit us at [http://www.wrightline.com](http://www.wrightline.com) and click on “Contact Us.” Simply complete and submit the form as directed on our web site.

**Local US Representative**
To find a sales representative in your area, visit our website at [http://www.eaton.com/wrightline.com](http://www.eaton.com/wrightline.com), and then click on “Contact your local rep for more information.” For US visitors, enter your zip code in the field and click on the Submit button.

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Documentation
For documentation pertaining to this product and related Eaton products, visit our website at http://www.wrightline.com.