This Unpacking and Setup Guide contains information about the EMC 40U-D cabinet. Topics include:

Note
This document was accurate at publication time. Go to EMC Online Support (https://support.emc.com) to ensure that you are using the latest version of this document.

- Before you start ......................................................................................................... 2
- Tools required ........................................................................................................ 2
- Hardware acclimation .......................................................................................... 3
- Steps to unpack and setup cabinet ....................................................................... 3
- Remove the ramp and shipping material from the cabinet .................................. 4
- Remove the cabinet shipping brackets ................................................................. 5
- Attach the unloading ramp ................................................................................... 6
- Roll the cabinet down the ramp .......................................................................... 7
- Position and level the cabinet ............................................................................ 9
- Remove internal shipping material ..................................................................... 9
- Attach AC power input cords ............................................................................ 9
- Attach (optional) brackets ................................................................................ 19
- Install the lower rack bezel ................................................................................ 20
- Ground the cabinet ............................................................................................... 21
- Repackaging shipping material (2-piece ramp kits only) .................................... 21
- If you need help .................................................................................................... 24
Before you start

This section contains important information you should read prior to unpacking and setting up the cabinet.

**CAUTION**

Some EMC® products are designed for installation by trained service personnel only. Attempts by unqualified personnel to set up and start certain products may result in system damage and may void product warranties. Contact your EMC representative for detailed warranty, installation, and initialization policies.

Please dispose of shipping material responsibly, and recycle wherever and whenever possible. Cabinet packaging that includes a collapsible downloading ramp can be re-packaged and returned, as described in GUID-B229557A-8F20-46E7-8792-2445F4E02468.

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**Note**

The illustrations in this guide are examples only. Depending on what you ordered, your configuration may look somewhat different from what is shown here.

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**Tools required**

- 9/16-in. (14-mm) socket wrench
- Adjustable wrench
- Scissors, or similar cutting tool
Hardware acclimation

Systems and components must acclimate to the operating environment before power is applied to them. Once unpackaged, the system must reside in the operating environment for up to 16 hours to thermally stabilize and prevent condensation.

<table>
<thead>
<tr>
<th>If the last 24 hours of the TRANSIT/STORAGE environment was this:</th>
<th>...and the OPERATING environment is this:</th>
<th>...then let the system or component acclimate in the new environment this many hours:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>Relative Humidity</td>
<td>Nominal 68-72°F (20-22°C) 40-55% RH</td>
</tr>
<tr>
<td>Nominal 68-72°F (20-22°C)</td>
<td>Nominal 40-55% RH</td>
<td>0-1 hour</td>
</tr>
<tr>
<td>Cold &lt;68°F (20°C)</td>
<td>Dry &lt;30% RH</td>
<td>&lt;86°F (30°C)</td>
</tr>
<tr>
<td>Damp &gt;30% RH</td>
<td>4 hours</td>
<td></td>
</tr>
<tr>
<td>Hot &gt;72°F (22°C)</td>
<td>Dry &lt;30% RH</td>
<td>Humid 30-45% RH</td>
</tr>
<tr>
<td>Hot &gt;72°F (22°C)</td>
<td>Humid 45-60% RH</td>
<td>&lt;86°F (30°C)</td>
</tr>
<tr>
<td>Hot &gt;72°F (22°C)</td>
<td>Humid &gt;60% RH</td>
<td>&gt;86°F (30°C)</td>
</tr>
<tr>
<td>Unknown</td>
<td></td>
<td>16 hours</td>
</tr>
</tbody>
</table>

**IMPORTANT:**

- If there are signs of condensation after the recommended acclimation time has passed, allow an additional eight (8) hours to stabilize.
- Systems and components must not experience changes in temperature and humidity that are likely to cause condensation to form on or in that system or component. Do not exceed the shipping and storage temperature gradient of 45°F/hr (25°C/hr).
- To facilitate environmental stabilization, open both front and rear cabinet doors.

Steps to unpack and setup cabinet

The steps to unpack, setup and repackage the shipping material are listed in the following table:

<table>
<thead>
<tr>
<th>Step</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Remove the ramp and shipping material from the cabinet on page 4</td>
</tr>
<tr>
<td>2</td>
<td>Remove the cabinet shipping brackets on page 5</td>
</tr>
<tr>
<td>3</td>
<td>Attach the unloading ramp on page 6</td>
</tr>
<tr>
<td>4</td>
<td>Roll the cabinet down the ramp on page 7</td>
</tr>
<tr>
<td>5</td>
<td>Position and level the cabinet on page 9</td>
</tr>
<tr>
<td>6</td>
<td>Remove internal shipping material on page 9</td>
</tr>
<tr>
<td>7</td>
<td>Attach AC power input cords on page 9</td>
</tr>
<tr>
<td>8</td>
<td>Attach (optional) brackets on page 19</td>
</tr>
</tbody>
</table>
Remove the ramp and shipping material from the cabinet

Procedure

1. Remove any boxes and other material from the cabinet sides.

2. Do not pull a ramp down from the top. To release the ramp from the pallet, grasp the ramp, pull it straight back toward you, then pull it straight up to free it from the screws.
3. Remove the plastic covering from the cabinet.

**Remove the cabinet shipping brackets**

**Procedure**

1. At the rear of the cabinet, remove the rear shipping bracket, by removing the bolts that go through the bracket to the rack and into the pallet.

2. At the front of the cabinet, remove the bottom rack bezel, if necessary. Pull the bezel straight out to remove it.

3. Remove the bolts that attach the rack to the front shipping bracket. You can leave the front bracket attached to the shipping pallet.

**Note**

Save the bolts. You may need them later to install optional stabilizer brackets.
Attach the unloading ramp

Procedure

1. Insert the ramp brackets into the pallet notches in the rear of the pallet.

2. If your shipment includes a two-piece ramp, attach part A to the pallet and part B to part A.
Roll the cabinet down the ramp

**NOTICE**

Make certain the leveling feet are secured in the UP position before moving the cabinet. Secured feet allow the cabinet to roll off the ramp and into position. If you need to adjust the leveling feet, use an adjustable wrench and turn the feet clockwise to raise them to the UP position.
The cabinet is heavy. Make certain you have sufficient help and secure footing before rolling the cabinet onto the ramp.


ACHTUNG! Das Gestell ist schwer. Versichern Sie sich, dass Sie genügend Hilfe haben und dass das Fundament gesichert ist, bevor Sie das Gestell auf die Rampe rollen.

ATTENZIONE! Poiché il cabinet è molto pesante assicurarsi di essere in un numero sufficiente di persone e di avere un appoggio sicuro prima di spingerlo sullo scivolo.

ADVERTENCIA! El bastidor es pesado. Asegúrese de contar con ayuda suficiente y de tener un apoyo seguro antes de colocar el bastidor en la rampa.

Balance the cabinet from the sides; do not grasp the plastic bezels or other components on the front of the cabinet.

DO NOT STAND IN FRONT OF THE CABINET
Position and level the cabinet

Remove internal shipping material

Remove any internal shipping material that may block air flow through the cabinet. Make sure to remove the E-shaped pink foam that protects the cable management arms during shipping.

Remove any strap tape that covers ventilation holes in a cabinet component; make sure to remove the tape that secures a DAE7S power supply knob.

Attach AC power input cords

**NOTICE**

In most cases, the cabinet ships fully assembled and configured; you need only to connect power cords and cables as required.

Depending on the cabinet components and configuration, the cabinet requires two, four, six, or eight independent 200-240 V power sources. You received power cords to support the maximum configurations, and are likely to have extra cords as part of your shipment.
The cabinet PDUs do not include a power On/Off switch. Make sure the circuit breaker switches on each PDU are UP, in the OFF 0 position until you are ready to supply AC power to the unit. Make sure power is OFF before disconnecting jumper or power cords from a PDU.

As applicable to your cabinet and site configuration, attach power cords to the power distribution units on each side of your cabinet as shown in the illustrations referenced in the following table. More information on cabinet power requirements and distribution units is available on the EMC Online Support website: http://Support.EMC.com.

<table>
<thead>
<tr>
<th>Type and number of AC power source connections to the cabinet:</th>
<th>Refer to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two single-phase source connections (1 per side)</td>
<td>Figure 1 on page 11</td>
</tr>
<tr>
<td>Four single-phase source connections (2 per side)</td>
<td>Figure 2 on page 12</td>
</tr>
<tr>
<td>Six single-phase source connections (3 per side)</td>
<td>Figure 3 on page 13</td>
</tr>
<tr>
<td>Eight single-phase source connections (4 per side)</td>
<td>Figure 4 on page 15</td>
</tr>
<tr>
<td>Two three-phase Delta source connections (1 per side)</td>
<td>Figure 5 on page 16</td>
</tr>
<tr>
<td>Four three-phase Delta source connections (2 per side)</td>
<td>Figure 6 on page 17</td>
</tr>
<tr>
<td>Two three-phase Wye source connections (1 per side)</td>
<td>Figure 7 on page 18</td>
</tr>
</tbody>
</table>

**Note**

Jumper cords between circuits and power cords to site power are keyed, and the connectors color-coded.
Figure 1  Cabinet supporting two single-phase source connections (1 per side)
Figure 2  Cabinet supporting four single-phase source connections (2 per side)
Figure 3  Cabinet supporting six single-phase source connections (3 per side)

OR
Figure 4  Cabinet supporting eight single-phase source connections (4 per side)

Attach AC power input cords
Figure 5  Cabinet supporting two three-phase Delta source connections (1 per side)
Figure 6  Cabinet supporting four three-phase Delta source connections (2 per side)
Figure 7  Cabinet supporting two three-phase Wye source connections (1 per side)
Attach (optional) brackets

We strongly recommend that you secure your cabinet to the floor with stabilizing brackets. Make sure the cabinet is in its final location before attaching the brackets, then use the supplied bolts and mounting holes to attach them to the cabinet and floor.

**Figure 8** Anti-tip bracket (installed on the front of cabinet)

**Figure 9** Anti-move bracket (installed on the front and back of cabinet)
Install the lower rack bezel

In some cases, the lower rack bezel ships unattached from the cabinet, or was removed to detach the shipping brackets. Push the lower rack bezel onto the ball studs at either side of the bottom front of the cabinet.
Ground the cabinet

Equipment correctly installed within the cabinet is grounded through the AC power cables and connectors. In general, supplemental grounding is not required.

If your site requires external grounding (for example, to a common grounding network beneath the site floor), you can use the grounding lugs provided on each of the cabinet’s bottom supports.

Repackaging shipping material (2-piece ramp kits only)

Follow these steps to repackage the cabinet shipping material:

Procedure
1. Lay each of the outer sleeves flat, then fold it lengthwise before collapsing the three sections, as shown:
2. Stack the shipping brackets on the pallet, as shown:

Refer to the following illustration as you perform steps 3-5.

3. Place ramp section B upside-down on the pallet, then stack section A, right-side up.
4. Stack the two folded outer sleeves above the ramp sections.
5. Apply the two collar sections to either side of the pallet; hold them in place with the package hood.
6. Band the unit with shipping straps as shown:

7. Use the following information to determine how to return the repackaged shipping material:
   - If the carrier unpacked the cabinet, the carrier handles the return shipment to the EMC packaging supplier.
   - If the cabinet was unpacked after delivery, refer to the contact number attached to the pamphlet for repacking. This contact is the carrier network for the initial shipment and they will follow the same process as for the initial shipments.
If you need help

For questions about technical support and service, contact your service provider.
For questions about upgrades, contact your sales office.
More information about this and other products is available on the EMC Online Support website at http://Support.EMC.com.