Installation Instructions

HOT AISLE CONTAINMENT

Safety Information

WARNING: Improper use of this product may lead to serious injury or death. Read and understand all instructions for proper installation and use of this product.

Installation of aisle Containment products may require the use of ladder, Scaffolds, and other climbing tools. Follow all climbing device procedures and observe all safety and warning precautions.

The Aisle containment door components are heavy and large. This requires that at least two personnel be used for assembly and installation. Obtain adequate assistance or hire professional equipment riggers.

Intended Use

Install this rack only in a restricted service environment, such as a data center. Use indoors only, in environmentally controlled areas; do not use outdoors, in harsh environments or in air-handling spaces. Use this rack for computer equipment, including servers and peripherals. Allow only qualified service personnel to use this rack.

Tools Required

Utility knife
#2 Phillips Screw Driver
10mm Socket Wrench.

Included Hardware

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot; -16 UNC Screw</td>
<td>8 each</td>
</tr>
<tr>
<td>3/8&quot; -16 UNC Nut</td>
<td>8 each</td>
</tr>
<tr>
<td>M6 X 16mm Bolt, RHSN</td>
<td>8 each</td>
</tr>
<tr>
<td>M6 Hex Nut</td>
<td>8 each</td>
</tr>
<tr>
<td>Utility Knife</td>
<td>8 each</td>
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</tbody>
</table>
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Containment Door Assembly Sequence (1/2):
Part Identification:

WARNING: Until the frame assembly is attached to the cabinet, the frame must be held up in place by at least one person.

1. Prior to Installing the Doors, place a strip of foam sealing tape on either the door or the Cabinet (Fig.1).
2. Position the Containment door at an angle position (Fig.2).

Double Sliding Containment Door
2 each

Foam Sealing Tape

Back side view of Containment Door
Fig.1

Foam Seal

Fig.2
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Containment Door Assembly Sequence (2/2):
3. Seal the Containment Frame assembly to the side wall of the Cabinet (Fig. 3)
4. After sealed by the Foam tape, There should be ¼” (6.35mm) gap between the inner wall on the door and side of the first cabinet (Fig. 3).

Fig. 3
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Containment Structure Assembly Sequence (1/9):
Part Identification:

- HAC beam Extrusion, Thread Groove 94” & 46”
- Containment extrusion orientation.
- Dam, Corner 8 each
- Gusset, Joiner
- Gusset, Plate
- Polycarbonate Clip 2” Length
- Polycarbonate panels (4’W X 8’L X 6mm D Sheets)
Containment Structure Assembly Sequence (2/9):

5. Join the two extrusion with Joiner using 3/8"-16UNC screw (fig. 4)

Fig. 4
Cross sectional view
Containment Structure Assembly Sequence (3/9) :
6. Follow either one of the step for assembling Containment Structure:
   a. Position the Joiner along the length of the cabinet row (Fig. 5).
   b. Position the extrusion piece approximately centers of the cabinet row length and join the extrusion piece on both side using Joiner (Fig. 6).

Fig. 5

Fig. 6
Containment Structure Assembly Sequence (4/9) :
7. Install the Ceiling drop down mounting to extrusion using 3/8"-16 CSK screw.
8. Hanging the First length Joiner by using 3/8" threaded rod through Ceiling drop down mounting slot with 3/8" Nut (Fig.7).
9. After Cutting the extrusion to the required cabinet row length, hang the second length extrusion at both ends.

10. Repeat steps 5-9 for opposite side of containment row length (Fig.9).

Join the Second length extrusion with Joiner.

Cabinet Row length

Second length extrusion

Fig. 8

Fig. 9
11. Pre-assembled the End Width Extrusion with Dam Corner and Gusset plate by using 3/8”-16UNC screw. (Fig. 10).

12. Install end width onto the existing length assemblies (Fig. 11).
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Containment Structure Assembly Sequence (7/9):

13. The Vertical Extrusion of the lateral should be cut 3.25 inches (83 mm) less than the cabinet to Roof distance to accommodate for the upper extrusion.

14. Install Extrusion vertically at the each end of Row length Extrusion and End width Extrusion with Gusset plate using 3/8"-16UNC Screws (Fig. 12).

Fig. 12
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Containment Structure Assembly Sequence (8/9):

15. Loosely install the Vertical extrusion to convenient location approximately equal distance along the containment row length. Each Vertical extrusion should have minimum two gusset plate with 3/8”-16UNC screws (Fig. 13).

16. Install extrusion across the containment row length at alternate vertical extrusion on bottom rectangle containment. Each extrusion length should be equal to end width of extrusion.

17. Each adjacent extrusion should have minimum three gusset plate with 3/8”-16UNC screw. (Fig.14).
Containment Structure Assembly Sequence (9/9):

18. Continue installing the top of containment from row length extrusion, End width extrusion with joiner and Gusset plate using 3/8"-16UNC screws (Fig. 15).
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Header Panel Assembly Sequence (1/5):
Part Identifications:

Universal Bulb seal 96” & 102”

Flexible PVC shore
Flexible Alcryn shore

Gap for Polycarbonate panel sheet placing

Cross sectional View of Universal Bulb seal

Polycarbonate Clip 2” Length

Note: The pre-cut polycarbonate panels can be trimmed down/ resized easily with a razor/ straight edge as required.

Polycarbonate panels (4’W X 8’L X 6mm D Sheets)

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Header Panel Assembly Sequence (2/5):

19. First assemble Header panel (fig. 16).

Step: 2
- Universal Bulb seal
- Polycarbonate panels
- H = cabinet Top to bottom of the Containment POD.
- L = Cabinet Width
- 1 inch Gap should be maintained.

Step: 3
- Header Panel assembly

Fig. 16
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Header Panel Assembly Sequence (3/5):
20. Install header panel into the extrusion by holding the polycarbonate clip (Fig. 17 & 18).

Fig. 17
Polycarbonate clips snap into inside containment extrusion and hold polycarbonate panel in place
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Header Panel Assembly Sequence (4/5):

Cross section view of header panel assembly on to the cabinet with Containment Structure

Fig. 18
Header Panel Assembly Sequence (5/5):

21. Repeat the Header panel installation process for all remaining cabinets (Fig. 19).

Ensure Air Seal.
End Fascia Assembly Sequence (1/2):
Part Identification:

- 3/8"-16 UNC Screw
- Gusset Plate
- End of Row Bracket
- M6 Nut
- 3/8"-16 UNC Screw
- M6 X16mm Round Head square Neck Bolt

L = Width of Containment Extrusion
L = Bottom extrusion of Main containment to top of the Door.
L = End Fascia Assembly
End Fascia Assembly Sequence (2/2):

22. Install end facia assembly with End row of bracket using 3/8”-16UNC screw.
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Filler Panel Assembly Sequence (1/3):
Part Identification:

Inside Containment

Universal Bulb Seal
(96” and 102”)

Cross sectional View of Universal Bulb seal

Outside Containment

Polycarbonate Panels

Polycarbonate Clip

Filler panel full height Extrusion (94” & 102”)

Universal Bulb seal

2mm

L=8’ (96”)

W=4’ (48”)

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Filler Panel Assembly Sequence (2/3):

22. Sliding the Universal bulb seal onto Filler panel extrusion (Fig. 21).
Filler Panel Assembly Sequence (2/3):

23. Insert Polycarbonate sheet into the bulb seal (fig. 22).
24. Similarly assemble the extrusion and seal on other side (fig. 23).
25. Install filler panel into HAC extrusion using Gusset and 3/8”-16UNC screw (Fig. 24).