



DETAILS MAKE THE DIFFERENCE

ENOC AISLE CONTAINMENT

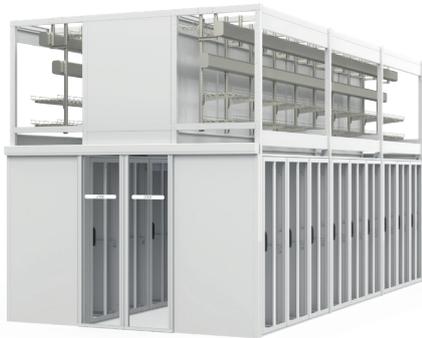
OPTIMIZE YOUR DATA CENTER INVESTMENT





INCREASE ENERGY EFFICIENCY AND PROTECTION

Flexible cooling solutions for server rooms and data centers, with six base solutions. Each of them can be equipped with different panels – fixed metal, fixed channel plastic or openable metal panels. Optimizing air flow in your data center with the use of Hot Aisle Containment, HAC, has several benefits, including reducing energy costs and improving efficiency. The right choice of cooling system gives the data center an optimal temperature.



HAC-F FREESTANDING

Freestanding Hot Aisle Containment with a load capacity up to 200 kg per /side.

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HAC-H HANGING

Hot Aisle Containment hanging from suspended roof or from the building.

[PAGE 8-17](#)



HAC-S STANDING

Hot Aisle Containment standing on top of racks

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HCC

HOT CHIMNEY

Hot Chimney Containment, a chimney solutions with room cooling.

PAGE 22-23



CAC-RS

RACKSTANDING

Cold Aisle Containment system with complete hot and cold air separation.

PAGE 24-25



CAC-RF

RACK FREESTANDING

Cold Aisle Containment, ideal for installations where flexibility of racks are required.

PAGE 26-28

OPTIONS

FILLING PANELS

Customized according to your needs

PAGE 29

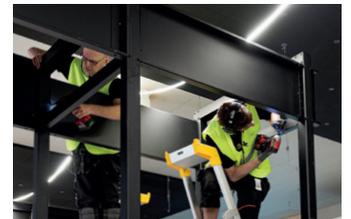


INSTALLATION

ASSEMBLY ON SITE

Responsible installation with short lead times

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HAC-F FREESTANDING HOT AISLE CONTAINMENT

HAC-F, Freestanding Hot Aisle Containment. Ideal for buildings with high ceilings. This solution will carry loads from cable trays, busbars, and roof, instead of fixing it to the roof of the building.

- The frame is steel tubes and beams assembled with screws
- Telescopic blanking panels seals the gap between the HAC frame and the cabinets
- End of rows are sealed with Enoc KKD G3 door sections
- Maximum static load 200kg/m

Every solution is customized individually

- Roof height
- Row length and aisle width
- Maximum rack height (free space under the telescopic beam)
- Rack dimensions and number of racks
- Filling panel solution: metal or channel plastic

Adaptations

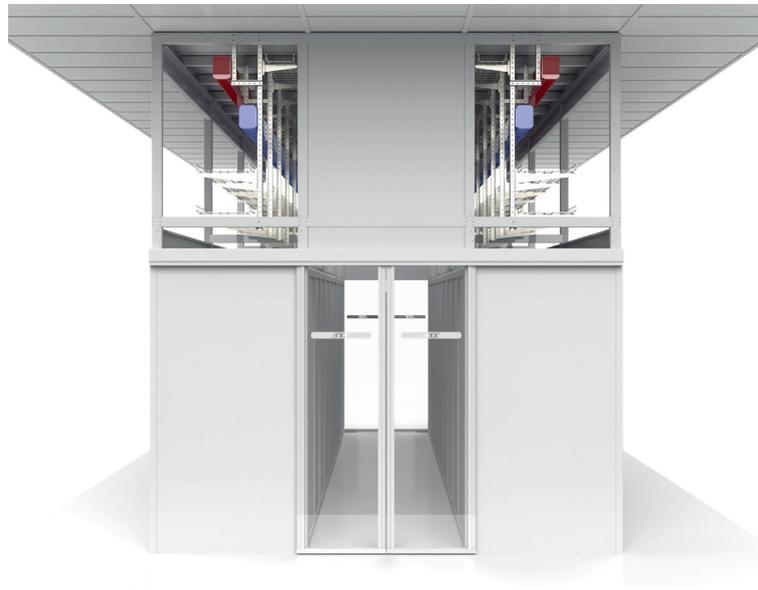
- Double or single row (next to wall)
- Adaptations to building constraints, e.g. columns in the HAC rows
- Cable trays running through the aisle

Colors

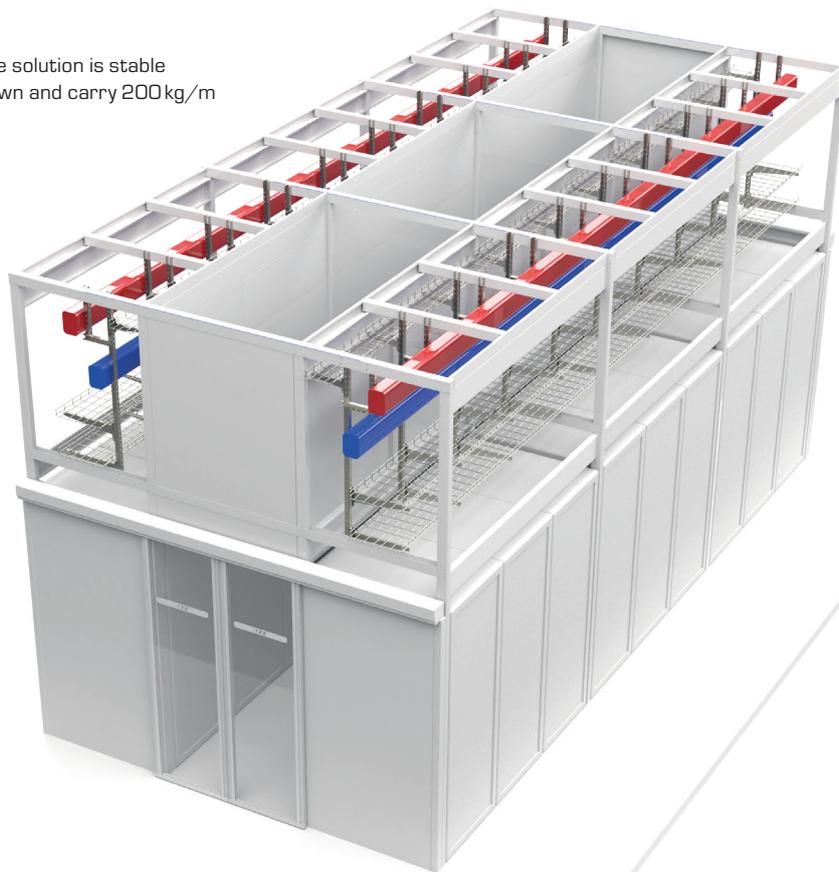
- Any color
- Standard: RAL 9003 (white) and RAL 9005 (black)



State of the art
Hot Aisle Containment.



Freestanding design. The solution is stable enough to stand on its own and carry 200 kg/m of equipment.





HAC-F FREESTANDING HOT AISLE CONTAINMENT



The frame is designed to hold additional installations required, like cable trays and busbars.





Every solution is customized individually. Enoc System designs the solution together with the customer.



Each compartment can be individually designed to fit any combination of rack widths and heights.



HAC-H HANGING HOT AISLE CONTAINMENT

HAC-H, Hanging Hot Aisle Containment. Ideal in buildings with load carrying suspended roof. With telescopic blanking panels a flexible solution is possible, e.g. different rack heights. Makes change of racks easier.

- The frame is steel tubes assembled with screws
- Available with or without telescopic panels
- Telescopic blanking panels seals the gap between the HAC frame and the cabinets
- End of rows are sealed with Enoc KKD G3 door sections

Every solution is customized individually

- Roof height
- Row length and aisle width
- Maximum rack height (free space under the telescopic beam)
- Rack dimensions and number of racks
- Filling panel solution: metal, channel plastic or openable panel

Adaptations

- Double or single row (next to wall)
- Adaptations to building constraints, e.g. columns in the HAC rows
- Cable trays running through the aisle

Colors

- Any color
- Standard: RAL 9003 (white) and RAL 9005 (black)





HAC-H is designed with a hanging steel tube frame, customized individually depending on rack and room layout.



Multiple versions of the HAC-H are available, e.g. openable metal panels.



HAC-H HANGING HOT AISLE CONTAINMENT

Non-telescopic version | Frame only

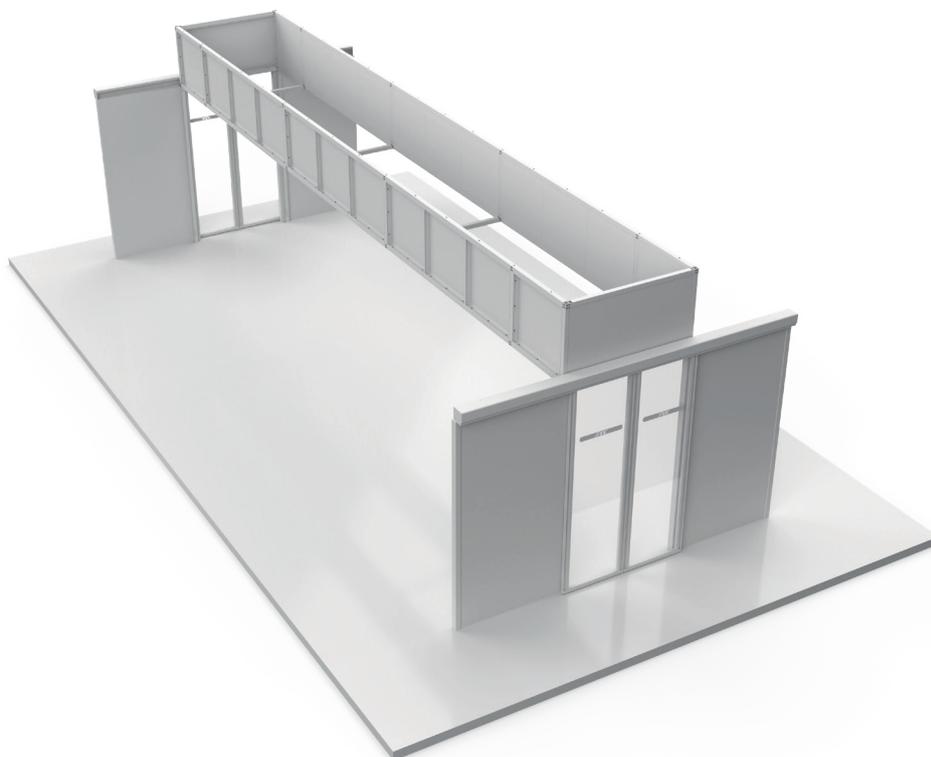
HAC-H, Hanging Hot Aisle Containment, without telescopic blanking panels. Ideal when a uniform rack height is used throughout the row.





HAC-H HANGING HOT AISLE CONTAINMENT

Non-telescopic version | Metal panels



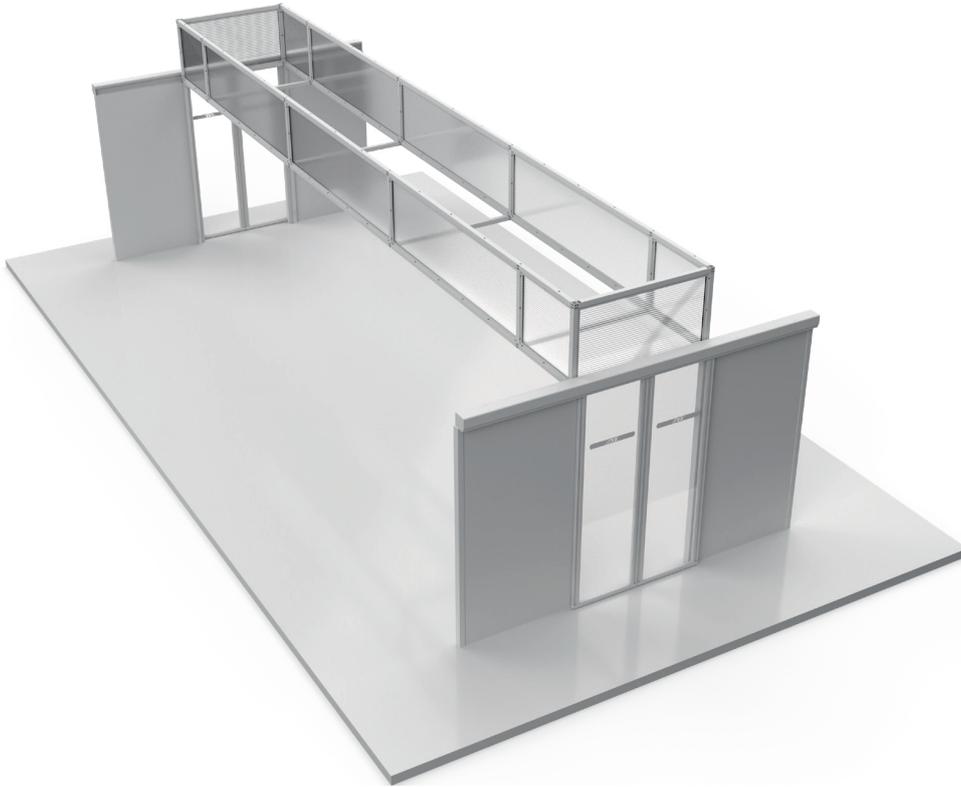
Filling option one:
metal panels, stable and
smooth looking filling
panels.





HAC-H HANGING HOT AISLE CONTAINMENT

Non-telescopic version | Channel plastic



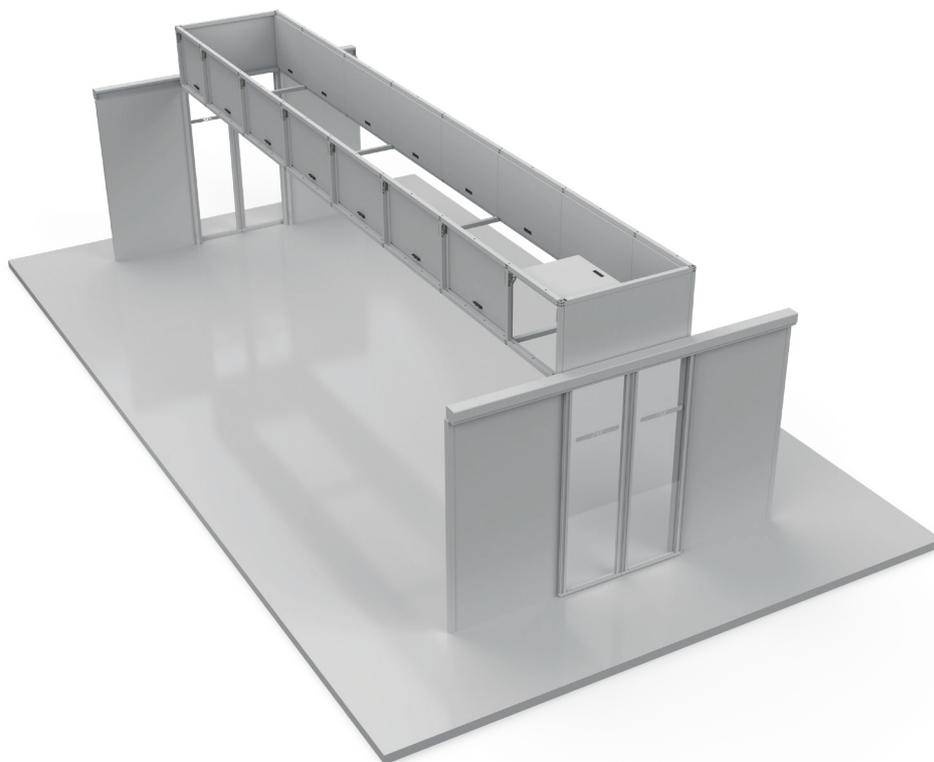
Filling option two:
channel plastic panels.
Ideal when higher
insulation degree is
required. This solution
also lets more outside
light into the aisle.





HAC-H HANGING HOT AISLE CONTAINMENT

Non-telescopic version | Openable panels



Filling option three:
openable metal panels.
Ideal when access is
needed from inside the
hot aisle.

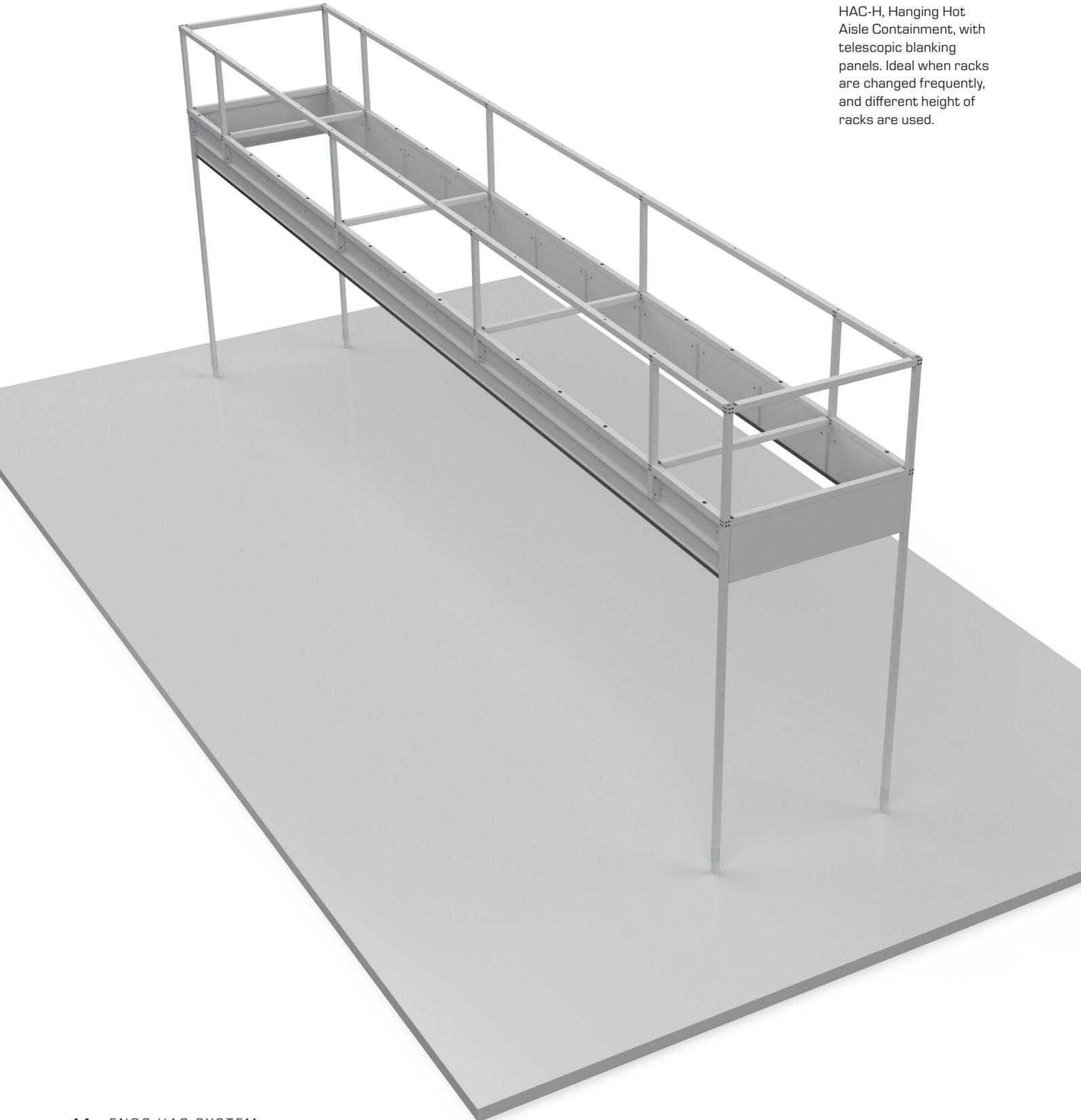




HAC-H HANGING HOT AISLE CONTAINMENT

Telescopic version | Frame only

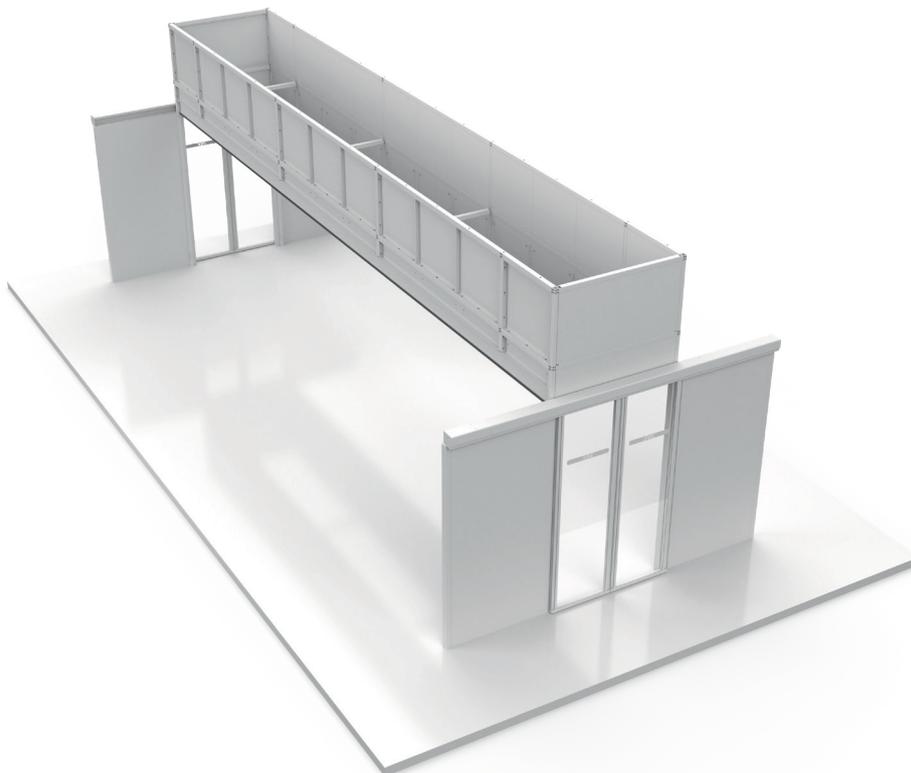
HAC-H, Hanging Hot Aisle Containment, with telescopic blanking panels. Ideal when racks are changed frequently, and different height of racks are used.





HAC-H HANGING HOT AISLE CONTAINMENT

Telescopic version | Metal panels



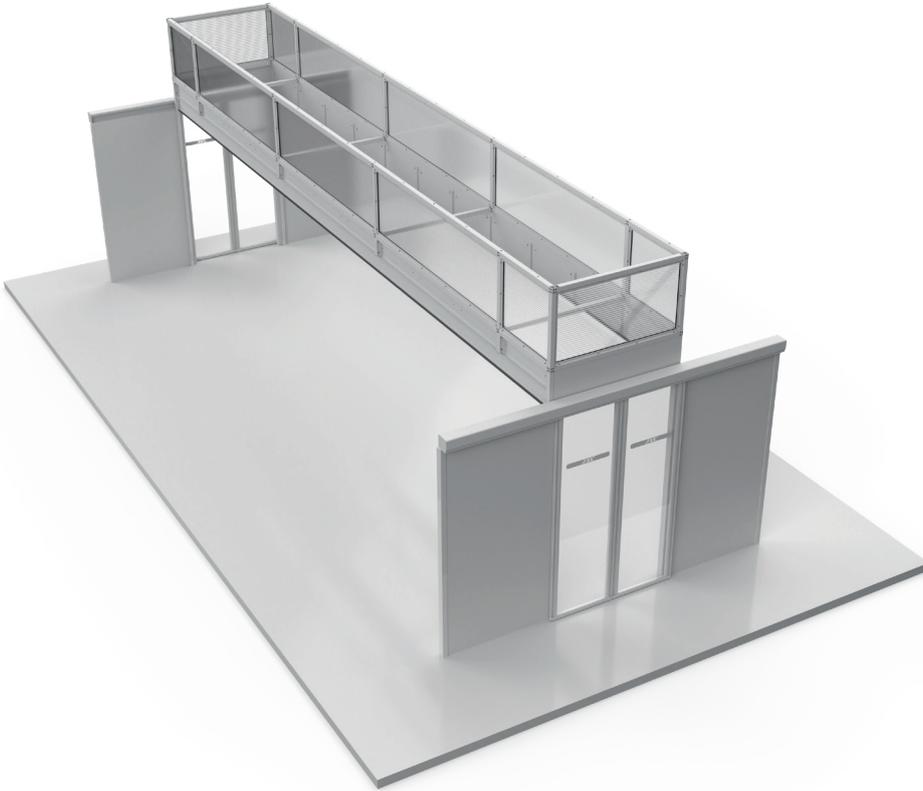
Filling option one:
metal panels, stable and
smooth looking filling
panels.





HAC-H HANGING HOT AISLE CONTAINMENT

Telescopic version | Channel plastic



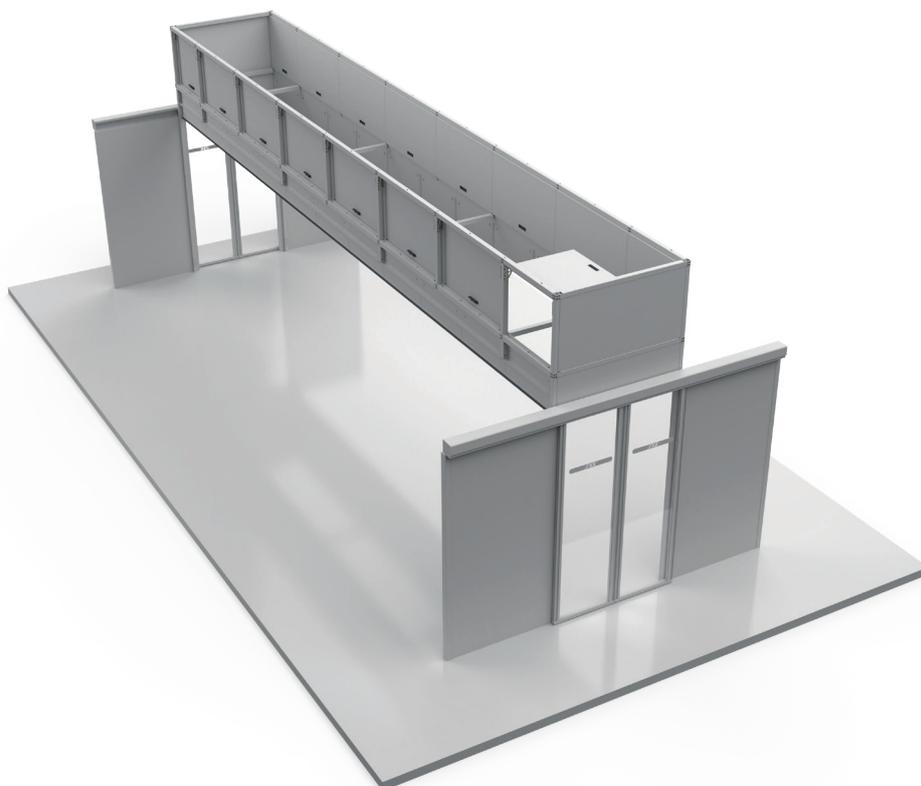
Filling option two:
channel plastic panels.
Ideal when higher
insulation degree is
required. This solution
also lets more outside
light into the aisle.





HAC-H HANGING HOT AISLE CONTAINMENT

Telescopic version | Openable panels



Filling option three:
openable metal panels.
Ideal when access is
needed from inside the
hot aisle.





HAC-S STANDING HOT AISLE CONTAINMENT

HAC-S, Standing Hot Aisle Containment, on top of a rack configuration. Ideal in installations with more fixed rack setup.

- The frame is steel tubes assembled with screws
- End of rows are sealed with Enoc KKD G3 door sections

Every solution is customized individually

- Roof height
- Row length and aisle width
- Rack height
- Rack dimensions and number of racks
- Filling panel solution: metal, channel plastic or openable panels

Adaptations

- Double or single row (next to wall)
- Adaptations to building constraints, e.g. columns in the HAC rows

Colors

- Any color
- Standard: RAL 9003 (white) and RAL 9005 (black)

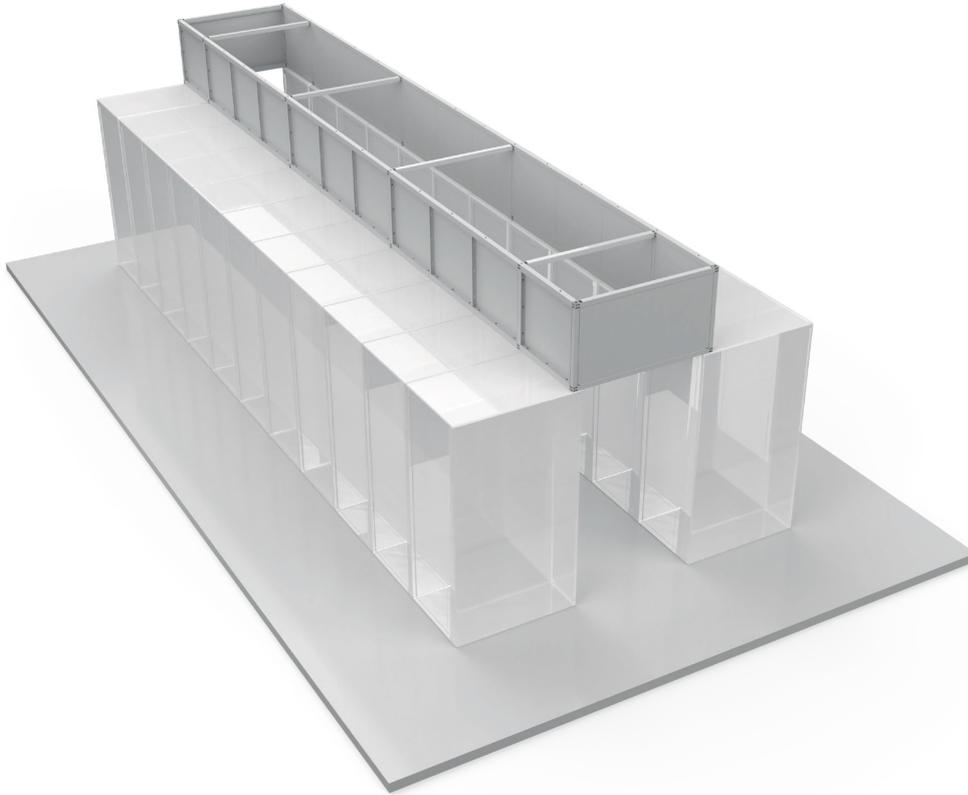


HAC-S is designed with a standing steel tube frame. The HAC-S is supported by the racks. Every solution is customized individually.

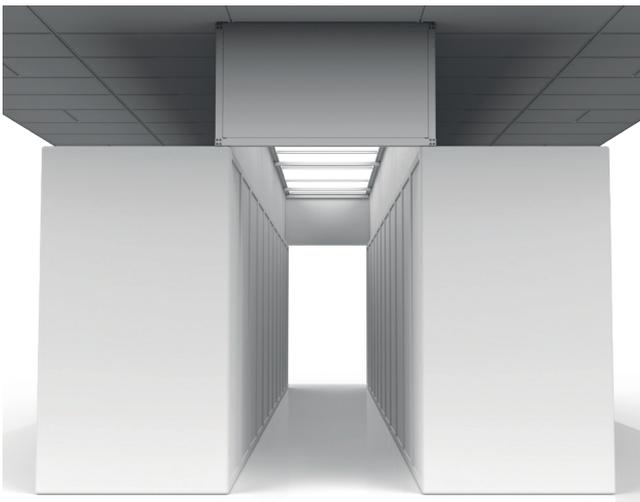


HAC-S STANDING HOT AISLE CONTAINMENT

Metal panels



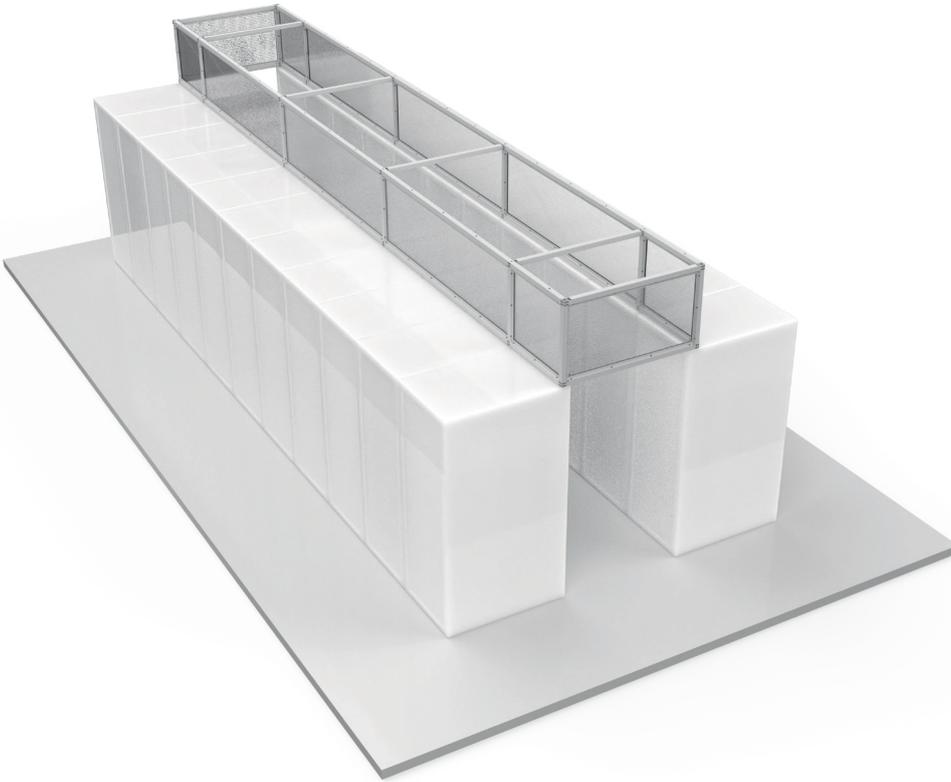
Filling option one:
metal panels, stable and
smooth looking filling
panels.





HAC-S STANDING HOT AISLE CONTAINMENT

Channel plastic



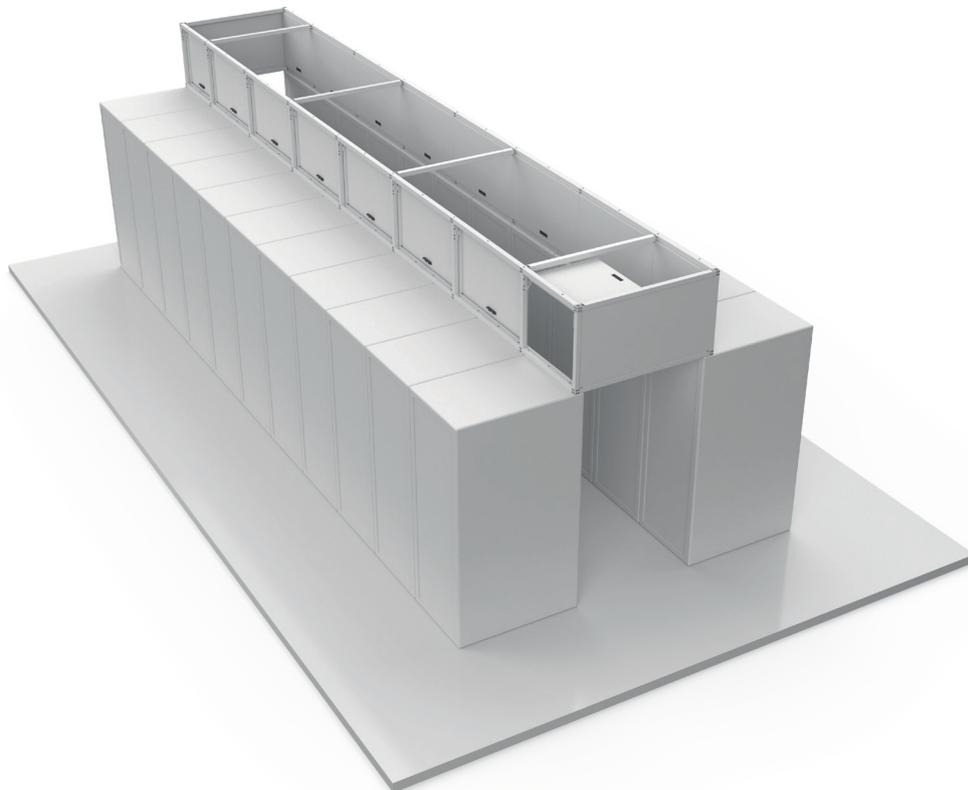
Filling option two:
channel plastic panels.
Ideal when higher
insulation degree is
required. This solution
also lets more outside
light into the aisle.





HAC-S STANDING HOT AISLE CONTAINMENT

Openable panels



Filling option three:
openable metal panels.
Ideal when access is
needed from inside the
hot aisle.





HCC HOT CHIMNEY CONTAINMENT

HCC, Hot Chimney Containment, our chimney solutions with room cooling are available in different dimensions. Allows flexible placement of racks and cabinets. The design is self-supporting and requires no fixing in top. Cools the entire room.

- The chimney is with telescopic panels assembled with screws
- Telescopic chimney seals the gap between the roof and the cabinets
- No aisle containment needed
- Closed back door to direct duct for hot airflow out through chimney

Every solution is customized individually

- Roof height
- Rack height
- Rack dimensions
- No need for extra filling panel solution

Adaptations

- Adaptations to building constraints, e.g. plates in the roof
- Adaptions to room cooling or floor cooling, e.g. plates in the floor

Colors

- Any color
- Standard: RAL 9003 (white) and RAL 9005 (black)





HCC HOT CHIMNEY CONTAINMENT



HCC is designed with a standing chimney. Two part adjustable to meet and seal against the ceiling. Chimney supported by the enclosure, self-supporting and requires no fixing in top.



CAC-RS RACKSTANDING

CAC-RS , Cold Aisle Containment system with complete hot and cold air separation. Optimizing air flow in your data center with the use of containment has several benefits, including reducing energy costs and improving efficiency. Creates POD with our enclosure as base for quick and easy handling to on-site installation.

- KKD/KKDW sliding doors
- KKT/KKTW for creating aisle containment together with S1 server enclosure
- Roof tiles of 4 mm fully tempered security glass, hold in place with slotted lock
- End of rows are sealed with Enoc KKD G3 door sections

- **Every solution is customized individually**

- Roof length and aisle width
- Rack height
- Rack dimensions and number of racks
- No need for extra filling panel solution

Adaptations

- Double or single row (next to wall)
- Adaptions to buildings constraints e.g. columns in the CAC rows

Colors

- Any color
- Standard: RAL 9003 (white) and RAL 9005 (black)





CAC-RS RACKSTANDING



CAC-RS is the simplest and first step to create Cold Aisle Containment functionality. Perfect for raised floor and underfloor cooling with perforated tiles in the containment. Also suitable in combination with In-row cooling to handle the heat. This is an rack-standing solution, meaning the rack and enclosure direct supports the roof- and the sliding door-sections.



Creates POD with our enclosure as base for quick and easy handling to on-site installation.



CAC-RF RACK FREESTANDING

CAC-RF, Cold Aisle Containment, ideal for installations where flexibility of racks are required. CAC-RF is a CAC which is partly supported by the racks. Meaning possibility to remove and replace racks when installed. The solution can be adapted to rows of racks with different rack heights and width. Creates POD as stand-alone and high grade of flexibility and access.

- Roof carrying beam and support feet of steel sheet, assembled with screws
- Roofpanels in 16 mm channel plastic
- End of rows are sealed with Enoc KKD G3 door sections
- **Every solution is customized individually**
- Roof height
- Roof length and aisle width
- Rack height
- Rack dimensions and number of racks
- No need for extra filling panel solution

Adaptations

- Double or single row (next to wall)
- Adaptions to buildings constraints e.g. columns in the CAC rows

Colors

- Any color
- Standard: RAL 9003 (white) and RAL 9005 (black)





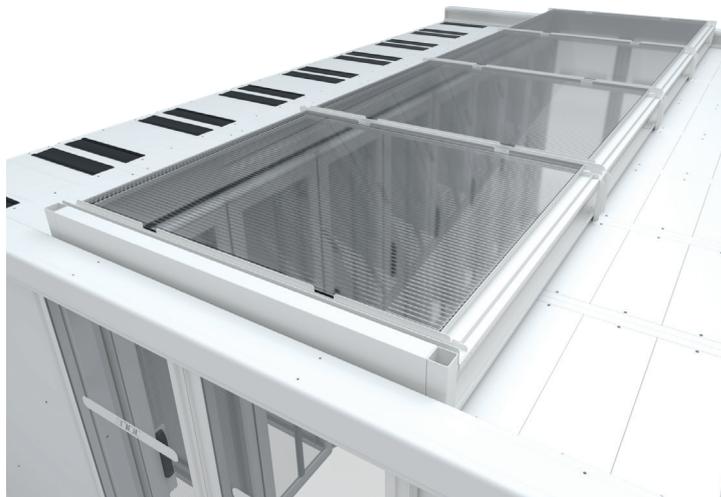
CAC-RF RACK FREESTANDING



CAC-RF is the next level from rack-standing. Same purpose for raised floor and underfloor cooling with perforated tiles in the containment. This is also suitable in combination with In-row cooling to handle the heat.

The concept creates the functionality of free-standing solution. Meaning the filling wall and framework handle the construction as stand-alone. Supports the roof- and the sliding door-sections.

Roofpanels in 16 mm channel plastic

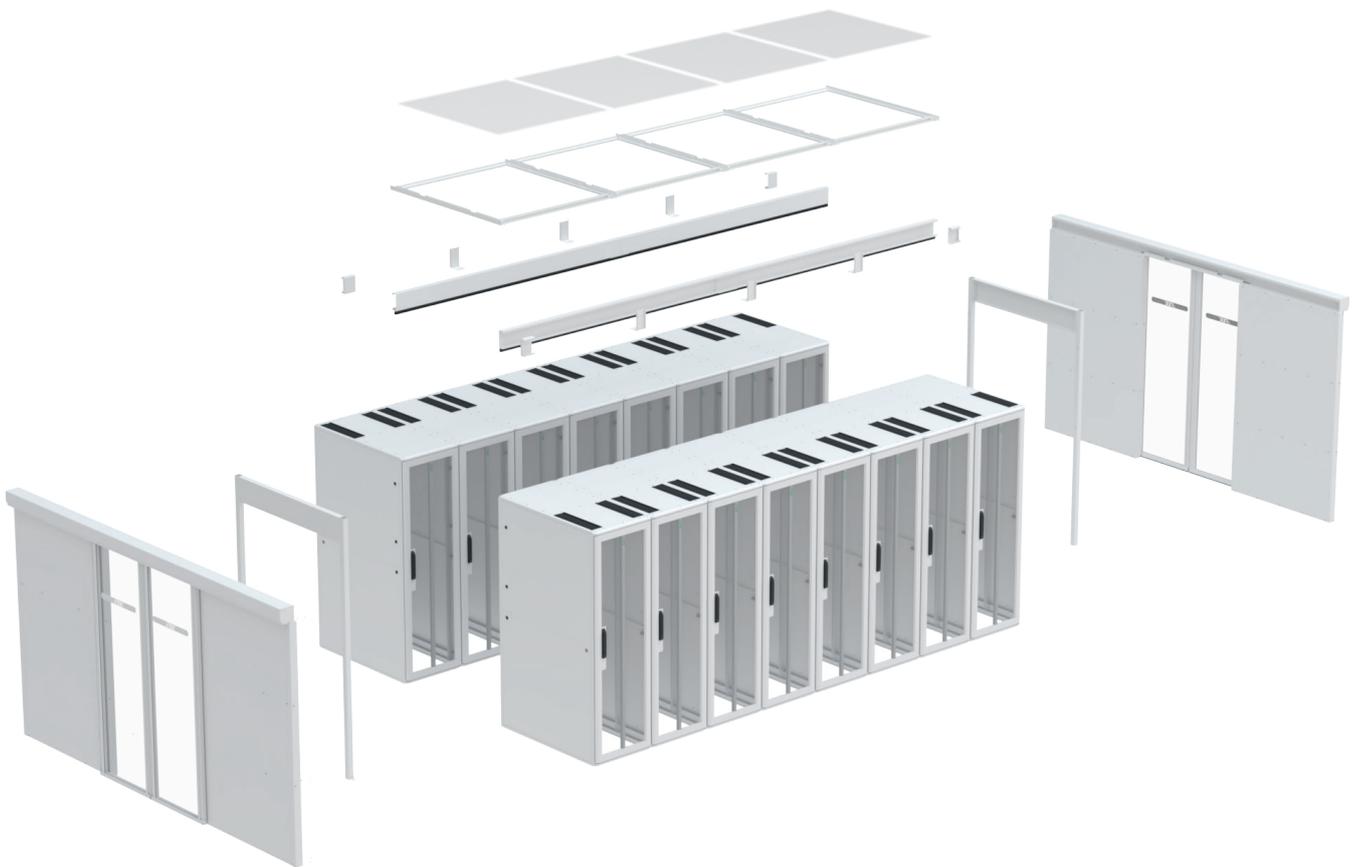




CAC-RF RACK FREESTANDING

With only a few parts we can create the stand-alone solution,
still no need for supporting environment in the Data Center.

Flexible plug-n-play for racks and enclosure in the POD





OPTIONS FOR HOT AISLE CONTAINMENT

Every Enoc HAC solution is individual. Sometimes adaptations need to be done, e.g. if there is a column in the way, or if not all rack spaces are filled with racks. In this case we add filling panels in the size of racks.

Filling panels

- 1.5 mm steel sheet
- Finish: available in any color
- Fixed in telescopic rail of HAC
- Adapted to any width and height
- Customized depending on specifics of the installation



Filling panels are necessary when rows are not filled with racks or if it is e.g. a column in the way.



ASSEMBLY ON SITE

Short lead times and quality-assured assembly on site. Enoc System takes full responsibility of the installation on site.

Letting Enoc's project management/installers handle the installation is usually the most cost-effective. If you want to use other installers, we can project manage them. Contact us to get more information or a quotation.







THE ENOC WAY

Enoc is the leading manufacturer of enclosures and accessories for computer installations. The company has its headquarters in Sweden and sales offices in Germany and representatives in five other countries. Our production is based on a flexibility and ability to quickly customize the manufacture to markets demand. Products are characterized by quality, detail flexibility and design. At Enoc we are committed to finding the solution that best fits you. That is what we call "The Enoc way".

DETAILS MAKE THE DIFFERENCE

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