GEIST

Rack Transition Plenum

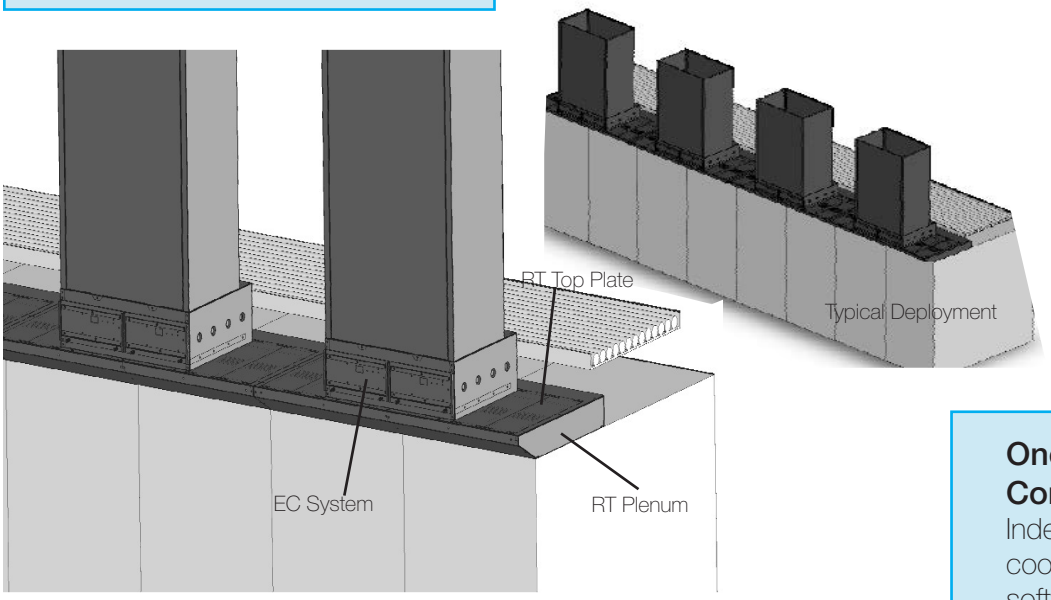
Ensure managed heat containment across multiple racks for effective and efficient computing for any density to 30kW per rack.

Why Choose Opengate?

Stabilize your IT intake air temperature to within a few degrees of the supply air temperature at all points in your data center.

Reduce total data center fan power consumption and improve server fan efficiency.

Adjust cool air delivery to IT demand as airflow demand dynamically changes.



Rack Transition is ideal for:

- Grouping racks for row level containment cooling
- Adding cooling capacity to the row as needed
- Avoiding overhead obstructions in the expansion of an existing facility

One System-Fully Compatible

Independent of precision cooling, rack, or management software platforms.

Industry Leaders

Oracle, U.S. Army Corp of Engineers, and General Dynamics are just a few who selected Opengate to simplify data center cooling and maximize energy efficiency.

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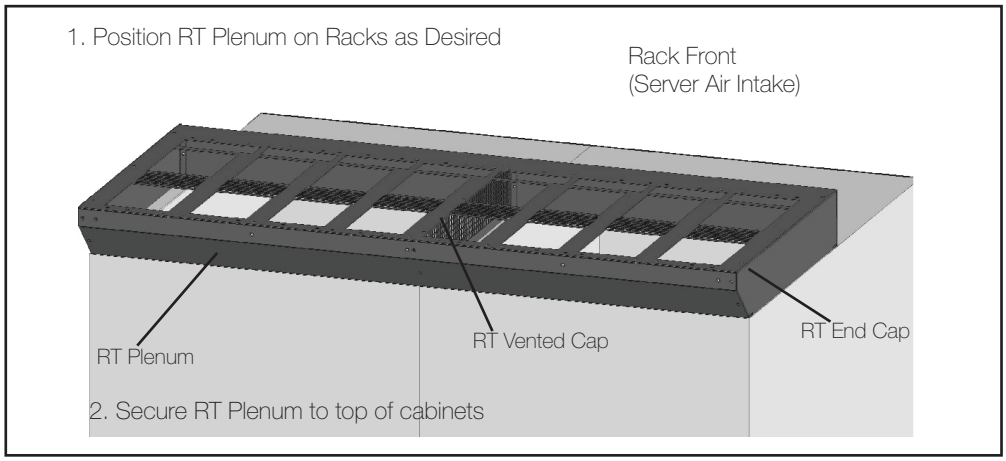
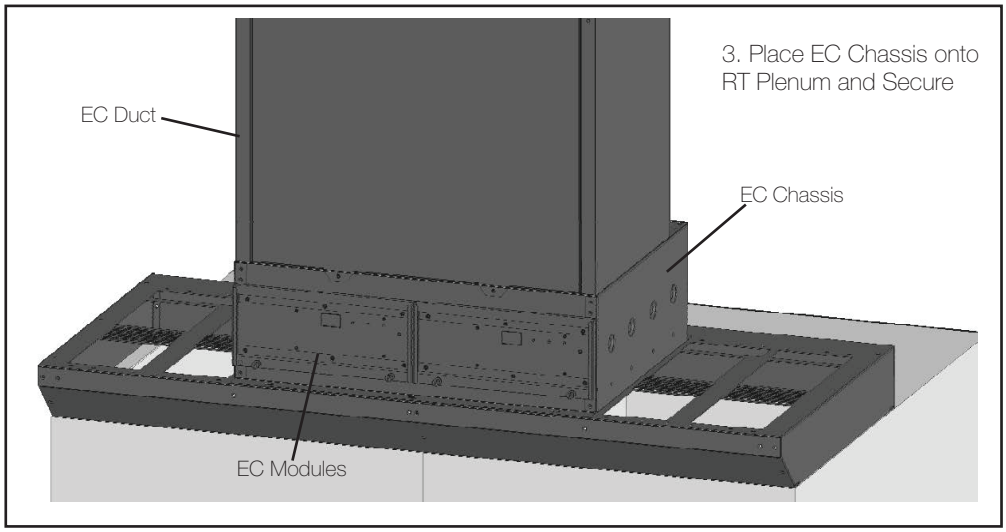
Installing The RT Plenum

RT Plenums come in various lengths. Select RT Plenums appropriate for your rack width. Place RT Plenum across the rear of two racks having no side panels between the two racks.



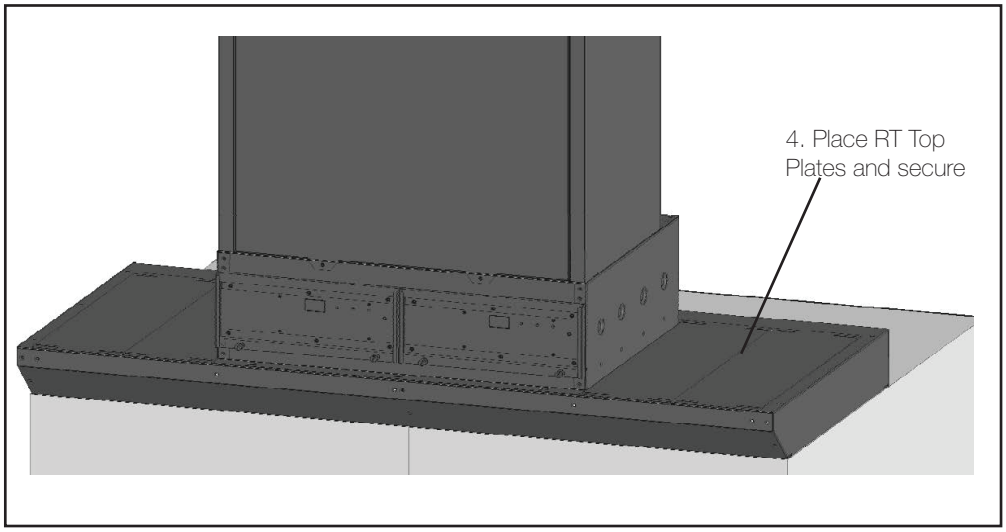
Install Containment Cooling

Place EC Chassis on RT Plenum anywhere along the row in 6" increments. Install the EC Duct and EC modules.



Install RT Top Plates

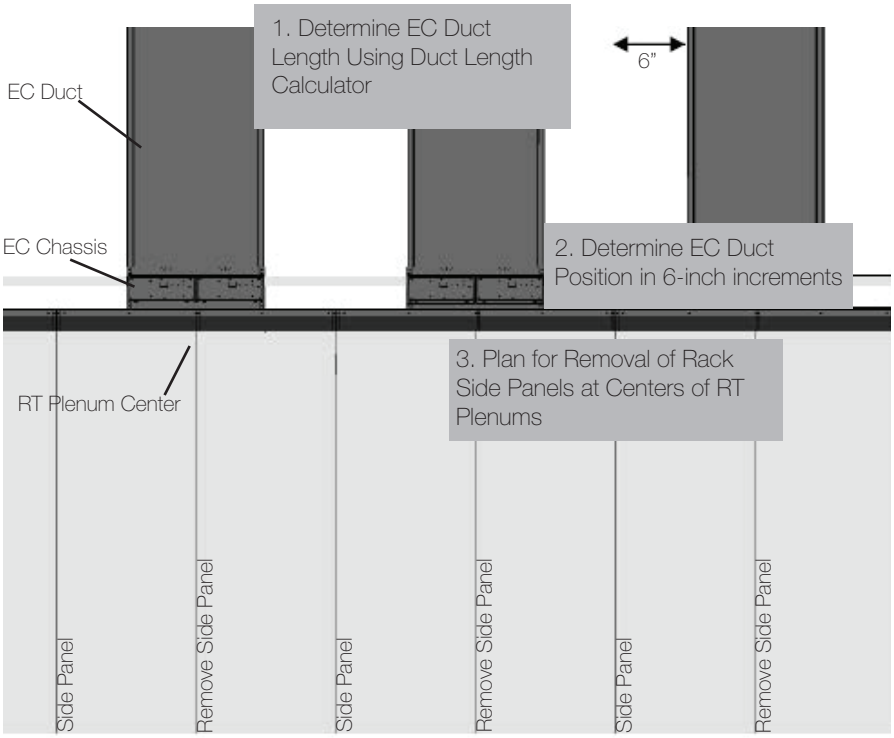
Place the RT Top Plates in all locations where there is not an EC Chassis and secure with hardware provided.



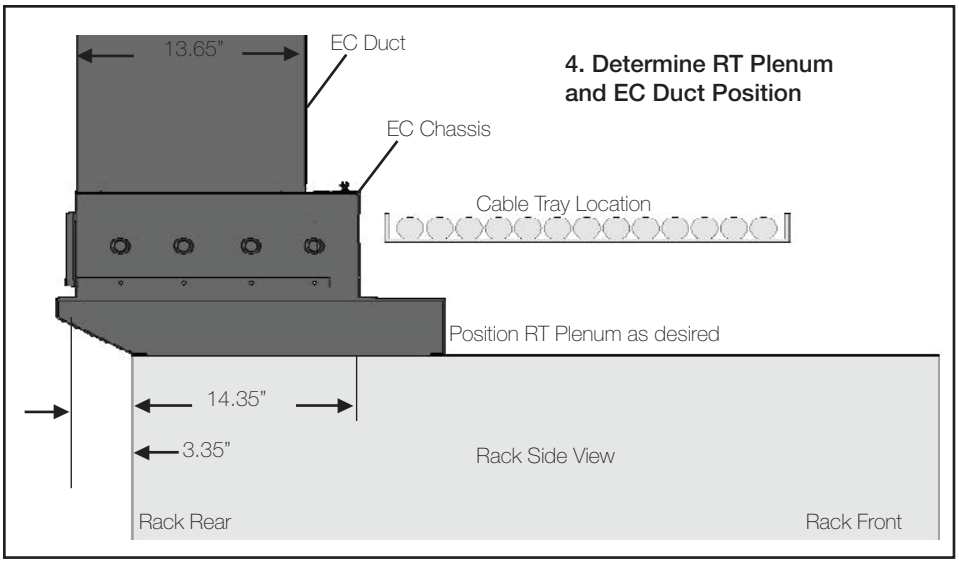
"Opengate containment systems enabled AAFC to quickly meet aggressive growth demands on data center services." -Eric Swanson, Agriculture & Agri-Food Canada

Preparing for the Rack Transition (RT) Plenum Installation

Containment Cooling systems flexibly located in 6-inch increments left to right



Variable positioning avoids over-rack obstructions such as cable trays and sprinkler heads, and allows you to add more managed heat containment capacity as needed.



Rack Side Panels

To operate two racks as one common air plenum, rack side panels are to be removed from both racks at the centers of the RT Plenum. Rack side panels are required where two RT Plenums join.

Duct Position Front View

The EC Duct Length is ordered per side requirements. The EC Duct position left-to-right is determined by the location of the EC chassis on the RT Plenum.

Duct Position Side View

Determine the position front-to-rear for the RT Plenum to allow the desired position for the EC Duct. Use the dimensions shown to determine the exact location for the EC Duct. Use the flexibility of the RT plenum to avoid obstructions and to maximize cable tray area.

"Opengate exceeded expectations a seamless effort from specifying to start-up. We're now placing high-density racks wherever we need to and we never receive temperature alarms."- Steve Hawley, Medical College of Wisconsin

Rack Transition Plenum

Installation photos show a clean and professional appearance while avoiding all overhead cable trays and other obstructions.

The Opengate Rack Transition allows you to use one Containment Cooling unit across 2-3 racks.

Effectively cool up to 15 kW per rack and scale up to 30 kW per rack by simply adding additional capacity when needed.

This deployment works with or without divider panels between racks - you can also stack IT load to the top of the rack.

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