

Network Rack Cooling & Airflow Planning Guide

PLANNING GUIDE

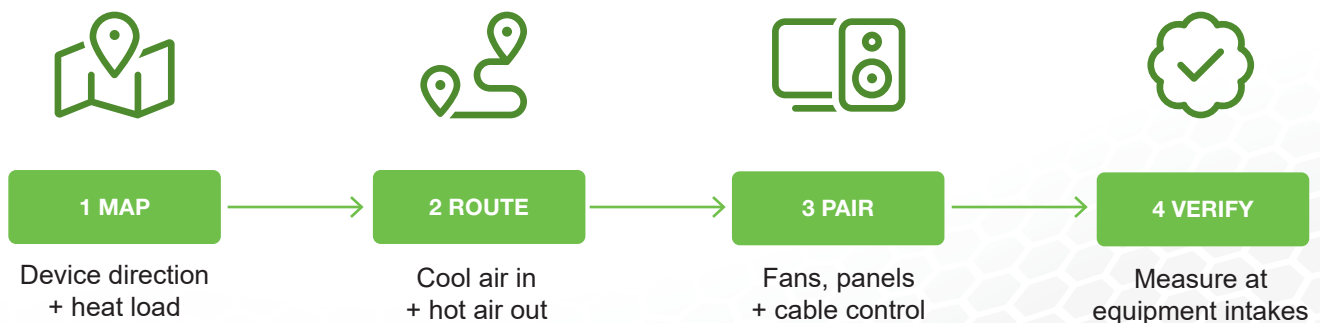
Build a clear path for cool intake air, hot exhaust and the accessories that support both.

A CLEAR FRONT-TO-REAR PATH



Airflow should support — not fight — the direction your equipment already moves air.

The Airflow Plan in 4 Moves



Rack fans move air — they do not lower room temperature.

If the room cannot remove the heat load, review HVAC and facility conditions first.

CHOOSE BY NEED

Pair Accessories to the Airflow Problem

Start with the problem — not the product. Confirm dimensions, rack units, power and airflow direction before ordering.



Rackmount Fans

BEST FOR

Local hot spots or added airflow

CHECK

19-inch mounting • RU space • voltage
• direction

[EXPLORE FANS & COOLING](#)



Blanking Panels

BEST FOR

Unused spaces that allow air bypass

CHECK

Rack width • open RU size • vented
vs. solid

[SHOP PANEL SPACERS](#)



Cable Management

BEST FOR

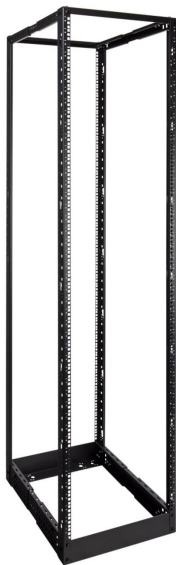
Bundles blocking vents or service access

CHECK

Rack width • depth • bend radius •
cable fill

[EXPLORE CABLE MANAGEMENT](#)

Open Frame or Enclosed?



Open-Frame Rack

ROOM-AIR DEPENDENT

Prioritize room temperature, equipment spacing and clear device vents.



Enclosed Cabinet

CONTROLLED PATH

Prioritize door perforation, blanking panels, usable depth and exhaust clearance.

INSTALL WITH CONFIDENCE

Check the Rack Before Power-Up

Use the checklist once before installation — and again after equipment is running under a normal load.

EQUIPMENT

- Airflow direction documented
- High-heat devices identified
- Operating limits confirmed

FIT

- Usable depth includes cables + PDUs
- Intakes and exhausts stay clear
- Required service clearance available

AIRFLOW

- Fan direction supports devices
- Blanking panels close air bypass
- Cable bundles stay off vents

ROOM

- HVAC runs during operating hours
- Exhaust cannot loop to the intake
- Dust + filter maintenance planned

After Startup: 3 Quick Checks



1 MAP

Device direction
+ heat load



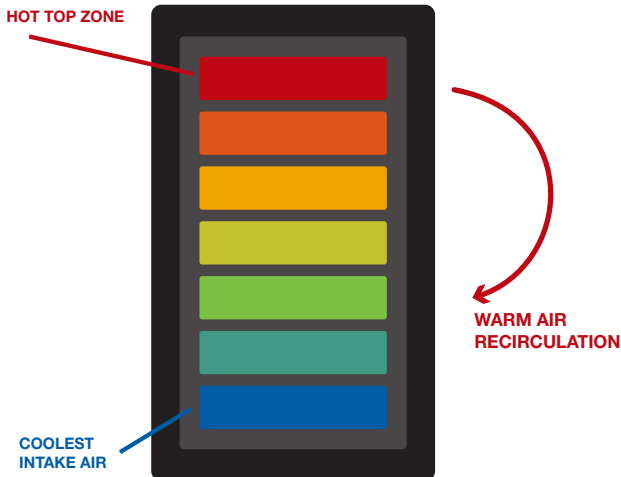
2 ROUTE

Cool air in
+ hot air out



3 PAIR

Fans, panels
+ cable control



If Temperatures Stay High

Hot at the top

Check top exhaust, blocked vents and total heat load.

Warm at the front

Look for exhaust recirculation and open rack spaces.

One device runs hot

Check local obstruction, spacing and mismatched airflow.

Heat stacks upward. Measure the top before you blame capacity.

Ready to Build a Cooler, Cleaner Rack?

Explore airflow accessories or talk with a NavePoint expert.

SHOP COOLING

CONTACT NAVEPOINT

Always follow equipment and facility manufacturer requirements. Compatibility and cooling needs vary by installation.