

# MAKE THE CASE

## RACK COOLING EFFICIENCY

Did you know that cooling makes up around 40% of total data center operating costs? In most cases, rack cooling best practices can increase the efficiency of the overall IT infrastructure without breaking the bank.



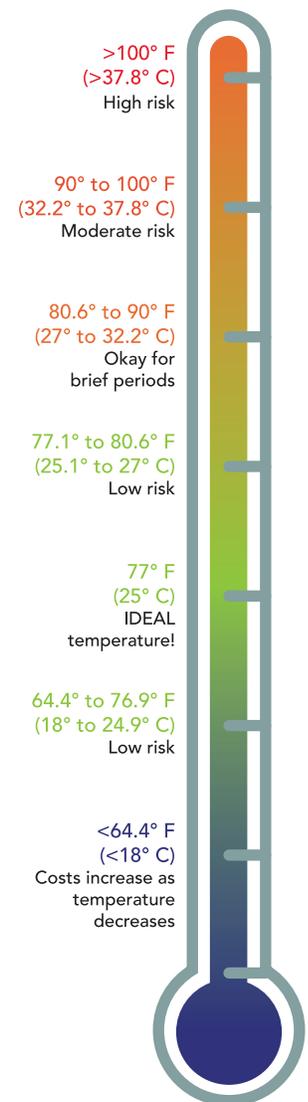
### EVALUATE THE BASICS OF YOUR COOLING SCHEME:

- **Improperly arranged rack bays and cabling can cause hot air recirculation.**  
Hot-aisle/cold-aisle configurations provide ventilation to all equipment and reduce energy use up to 20% without spending a dime.
- **HVAC cycling on and off can cause temperatures to spike.**  
Large temperature swings when facility air turns on and off reduce equipment lifespan, so don't rely on a general HVAC system to provide sufficient IT cooling.
- **Thermostat and vent placement away from the data center prohibits proper cooling.**  
Odds are the thermostat is not located near, or meant for the data center, and while the temperature reading may be in range, temperatures may be fluctuating at the rack level.
- **Unexpected hot spots can cause system shutdowns.**  
Spread loads throughout the data center, as opposed to installing heavy-drawing equipment close together to avoid concentrated areas of heat output. Keep this in mind when designing new infrastructure.

Get the task checklist at [bitly.com/RackCoolingTaskList](http://bitly.com/RackCoolingTaskList)

### THE IMPACT OF PROPER RACK COOLING:

- A modern cooling solution can **pay for itself in savings in just 2 years**
- Hot-aisle/cold-aisle containment manages airflow to all equipment and can **reduce energy use up to 20%**
- Operating within safe temperature ranges can **cut costs up to 25%**
- Improving airflow management and implementing cooling best practices can **decrease total power draw by 25%**
- Maintaining proper temperatures helps **extend equipment lifespan**



Need help with a rack cooling solution?

Contact a Tripp Lite Application Specialist:  
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