

DC100 series cabinet system

DC1004242 DC1004224

# cool compatible secure



## Introducing DC100

The Hammond DC100 series is a new generation of rack enclosures designed for server, network and data storage applications, incorporating Hammond Manufacturing's practical open-design and manufacturing principles with legendary service, support and reliability. DC100 cabinets feature an array of infrastructure benefits over traditional cabinets, with cooling performance and enhanced security features demanded by today's IT manager.

Available in two heights, the larger cabinet can support the popular capacity of 42U spaces while having a total cabinet height of under 81" (casters included) allowing it to be rolled through standard 7' doorways with ease. A standard outside width of 24" allow cabinets to bay together matching standard 2' floor tile placement, optimizing sub-floor cable and cold-air access without conflict. Both cabinets have a total depth of 42" to provide support for deep server dimensions while providing additional space for cable management.



## Superior Strength & Design

Whether your requirement is to stack many network devices, storage systems, or heavy application servers, DC100 cabinets are engineered with superior strength characteristics to meet your requirement. The DC100 features a fully-welded 14-gauge steel frame with eight(8) heavy duty struts contributing to a weight load rating of 2000lbs.

Standard 12-gauge universal rails (square-hole) are zinc-plated to provide superior grounding support and protection against corrosion. The frame, doors, side panels and top each feature one or more welded grounding studs allowing for compliant grounding where required. Tamper-proof heavy-duty outside hinges provide rigid support for the front and rear perforated doors. DC100 cabinets come standard with split rear doors. Split doors save valuable working space between aisles while accessing the rear of the cabinet.



#### Generous Cable Access

DC100 cabinets feature an open base for easy cable access from raised-tile sub floors. In situations where a sub-floor does not exist but cables must enter at ground level, a gland plate on the rear base of the cabinet can be removed to expose a sizable cable egress slot. For ample overhead cable access, two round cable ports (with removable plugs) are located at the front right and left of the top, while a large wide rectangular port services the rear of the cabinet. The locatable vertical cable management tray features horizontal ports for large cable bundles in bayed installations.

Baying multiple DC100 42U models is a snap using optional baying fastener kits. Removable 16-gauge locking side panels (optional on 42U model, standard on 24U model) feature recessed lift handles comfortably positioned for one person to remove or install.

The Hammond DC100 series cabinet makes a bold statement in appearance, with an angular door design beneficial for both structural rigidity and pleasing esthetics. Finished in high-quality black textured powder paint, your completed installation will continue to resonate quality and high-value with greater resistance to fingerprints and wear.



### **High Security**

Hammond DC100 cabinets feature a 2-point latch system and enhanced swing-handles by DiRAK, providing a higher level of security, durability and esthetics. If your data center calls for greater access control than simply locks and keys, now or in the future, Hammond DC100 cabinets are upgradable to DiRAK's E-LINE network-managed access-control systems.

DiRAK's E-LINE system utilizes a locking swing-handle that disengages remotely across a network, or locally by waving a valid HID proximity card or key chain remote in front of the lock.

The E-LINE system includes software to control E-LINE Swinghandles. The software allows the administrator to assign access codes, HID cards, and/or active keys to users, as well as assigning access to handles. All events having to do with the swinghandles (opening, closing, assigning access or unauthorized tried access) are recorded and stored in an SQL database.



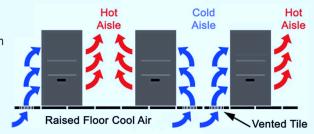


#### Thermal Performance

Many of today's data center managers find their greatest challenge or concern is thermal management. Server manufacturers today continue to introduce systems running faster and hotter than ever before. In fact, the average heat load generated per cabinet by new equipment today has nearly doubled since 2000.

As processor technology is pushed to its limit, server engineers invest heavily into sophisticated cooling technology within their own chassis. Unified among all major server systems today is the practice of cooling their equipment from front to back. Cooling components within the servers are designed to drive cooler air through the chassis(where it is needed) expelling heat from front-to-back.

Planning your data room cooling strategy along with cabinet arrangement is vital. The *passive* strategy of allowing server cooling system pressure motivate the room's cool-air distribution is commonly deployed and suggested by server manufacturers for low to medium density applications. A recommended hotaisle/cold-aisle cabinet layout is designed to separate cold air from cycled heated air, maximizing the effectiveness of your air-conditioning system.



To support the recommended air-intake temperature for the server, a minimum open-space area in front-of and behind the server is critical to insure adequate air-flow to cool its components and prevent system failure or damage. If doors are to be used for security purposes in a passive cooling configuration, a perforated door surface with a 63% or higher open space is most often specified by server manufacturers today.

Hammond *DC100* is designed with thermal performance in mind. Standard perforated doors feature a minimum 65% air-flow, meeting or exceeding manufacturers' specifications.

To help prevent unwanted heated air from recirculating to the front of the cabinet from within the cabinet itself, Hammond offers optional solid filler panels to be installed where unit spaces are not used, along with air-dam components to block bottom, top and sides of the equipment within the cabinet.

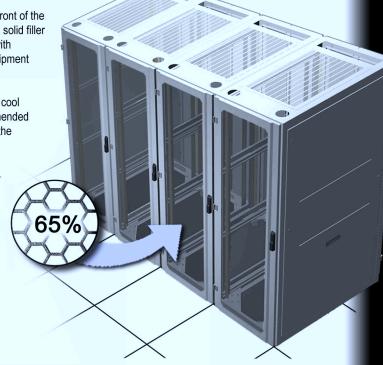
A raised floor environment can provide a significant source for cool air and is a popular method for cable distribution. It is recommended a raised floor grummet is used where cables enter the rear of the cabinet, so to save cool air that would otherwise be wasted.

To address higher-density server applications having a greater heat-load per cabinet, optional devices are available to effectively boost cooler air from beneath the raised floor to the intakes of your equipment.

Please visit ...

# www.hammondmfg.com

for further resource information relating to cooling and available accessories.



## DC100 series

## Accessories

Hammond offers a wide assortment of cable managers, shelves, power and cooling solutions. Below are only a few examples. Visit www.hammondmfg.com for a complete list of accessories or to download one of our full-line catalogues.



# **Specifications**



85" (2159mm)

27" (686mm)

47.5" (1207mm)

Important: The cabinet's internal flange structure allows it to be anchored directly to the floor (casters removed) or an optional anti-tip floor bracket (DC100ATIP) can be installed on the front of the cabinet to prevent tipping when servicing heavy rail-mount servers.

\* DC1004242 (42U model) does not include side panels. Side Panels are available in pairs (part#DC100SP4242) \*\* DC100 series cabinets ship on standard shipping pallets. Shock pallets or crates are available on request (additional charges will apply).

**Shipping Height** 

**Shipping Width** 

**Shipping Depth** 



Distributed by:

Design and Specifications are subject to change without notice

56" (1422mm)

27" (686mm)

47.5" (1207mm)



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