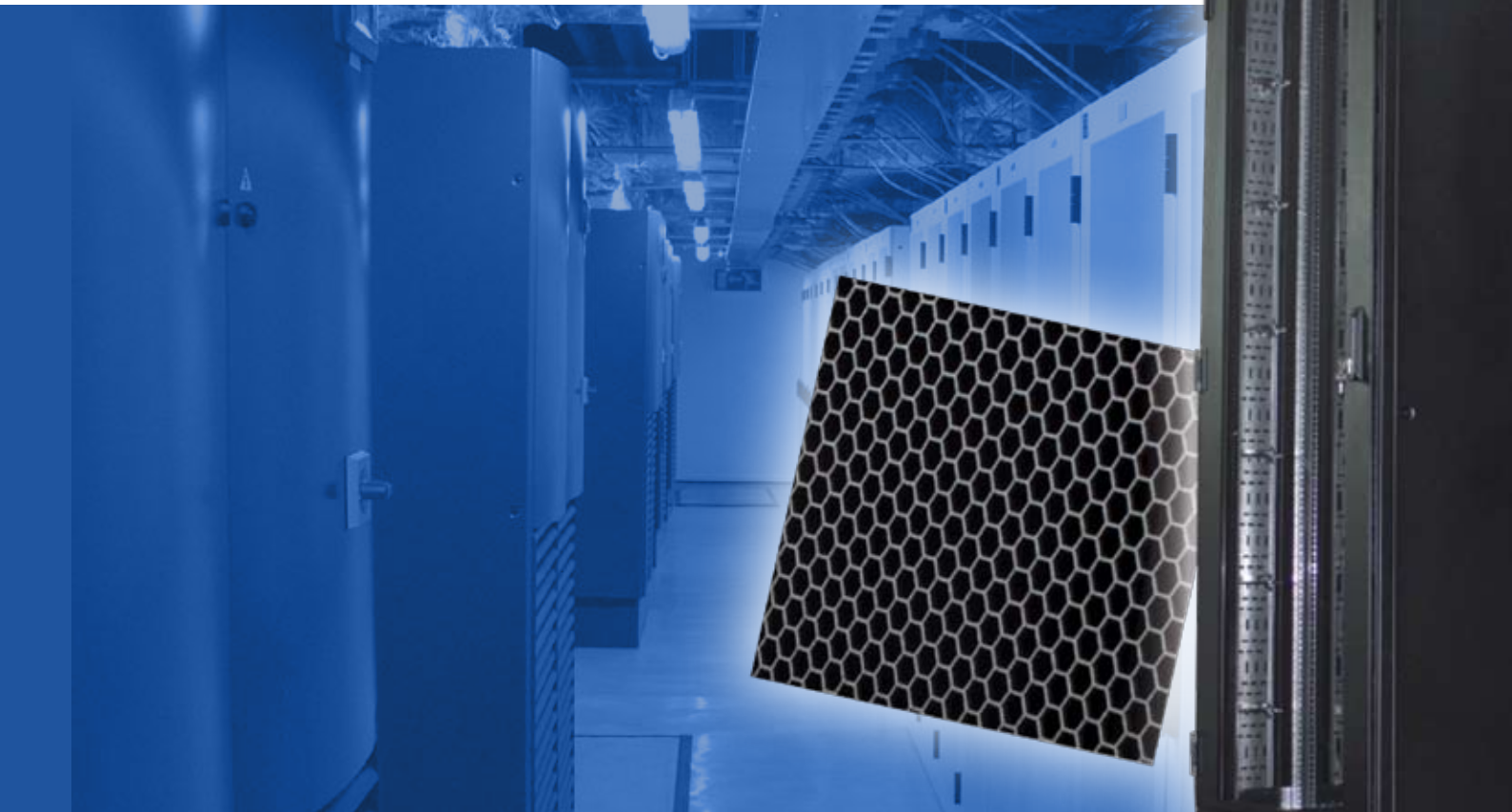

EVORACK

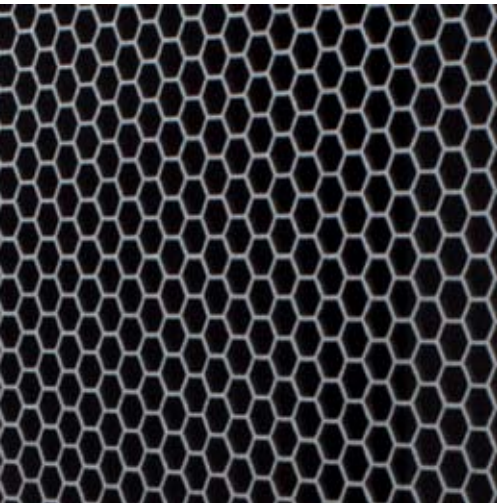
Enhanced airflow management for cabinets



Setting new standards
in cabinet design



Innovators in Data Centre Technology
0115 925 6000



The Heart Of Your Data Centre

Racking systems, whilst often overlooked, are one of the key building blocks of any data centre. With more and more attention paid to power distribution, cooling and cable management, choosing the right rack for your business is one of the most important decisions you will face.

At 2bm we believe racks should be flexible and scalable to address both your current needs and those of the future as technology inevitably continues to develop apace.

Introducing The EvoRack

Borne out of this thinking, our innovative EvoRack system was developed in association with Capgemini, its unique design ensuring "zero air loss" to maximise the efficiency of data centre cooling.

More traditional rack designs allow expensively cooled air to escape down the sides or at the top of the cabinet. In many ways it is like having your central heating on in the winter and then opening a few windows.

Zero Air Loss

The EvoRack tackles the challenge of escaping air with specially adapted baffles at both the sides and top. These guide ALL of the cold air into the switch air intake.

The side baffles are adjustable to accommodate differing profiles and when combined with our range of blanking panels ensure optimum cooling efficiency.



Additional airflow management solutions

The EvoRack is fully compatible with a range of low cost energy efficient measures to enhance airflow management in your data centre.

HotLok® 19" Blanking Panels

The HotLok* blanking panel is a snap in blanking panel that provides a 99%+ effective seal in IT cabinets. The energy-efficient cantilevered sealing vanes eliminate the gap between adjoining HotLok® blanking panels or the installed equipment, providing a snug seal and no air leaks.

Plenafill Blanking Solutions

When installed Plenafill provides a quick and easy way to limit excessive hardware temperature and equipment failure. Made from Lightweight non-flammable (fire rated to UL94-VO) material there are available 27U sheets and can be installed without any tools. Its unique and flexible design along with tool-free rivets makes for quick and easy installation even when hardware is added.

Improved airflow management

Server reliability is enhanced by the EvoRack's industry leading 80% mesh doors that encourage improved airflow throughout the rack.





Enhanced security

We offer a range of door handle options for improved rack security. Traditional 'Lock & Key' is fitted as standard to the EvoRack but these can be upgraded with combination locks that allow you to determine who has access to what rack and at what times (with full audit trail).



Enhanced cable management

EvoRack racks come fitted with a cable management tray to ensure data and power cables are kept neat and tidy. The option to fit additional cable trays is available upon request.



Installation and delivery

All prices include delivery to loading bay. We are also able to offer a tailored installation service to all our customers throughout the UK and Europe.



Available sizes:

The EvoRack is available in a range of sizes to suit all applications:

- Height 46u /41 u
- Width 600mm /800mm
- Depth 1000mm /1200mm

Removable side panels allow for easy inter-rack access.

Lifetime guarantee

The EvoRack is made to the highest of manufacturing standard and as such comes with a lifetime guarantee.

Project Merlin - Case study

Capgemini's new Merlin data centre is remarkable in that it has set new standards for energy efficiency by producing the industry leading Power Usage Effectiveness (PUE) rating of any data centre globally.

With a typical industry standard of 2.5 PUE, the Merlin Data Centre will function at an incredible 1.08, and is one of only three sites in the UK that is certified as an Uptime Institute-certified Tier 3 data centre.

The Merlin Data Centre has a unique design with modules that are pre-assembled and tested in a factory environment. Integral to the heart of this operation is the EvoRack racking solution provided by 2bm. The bespoke design which specially customised 'blank' panels ensures 'zero cold air loss' and so helps to maximise the efficiency of the cooling employed in the data centre.

Kevin Read, Data Centre Services Director at Capgemini, comments, "Sustainability is at the heart of everything Capgemini deliver, new and existing clients benefit from a range of quality services and industry best practice that is why 2bm were chosen to provide services to the world's greenest data centre."

Read continues, "Our business partners involved in the Merlin development were carefully picked for their technical expertise. 2bm have an excellent reputation in data centre design and installation and fully understand how best to utilise cabinets."

Jason Preston, Director of 2bm comments, "We were delighted to take up the challenge that was set out by Project Merlin. We have worked closely with Capgemini for many years to help introduce innovative cabinet solutions to their UK data centres. A PUE of less than 1.10 is a remarkable achievement, something that is extremely difficult to achieve when using standard cabinet designs. We were only too pleased to play our part in achieving this world beating standard."

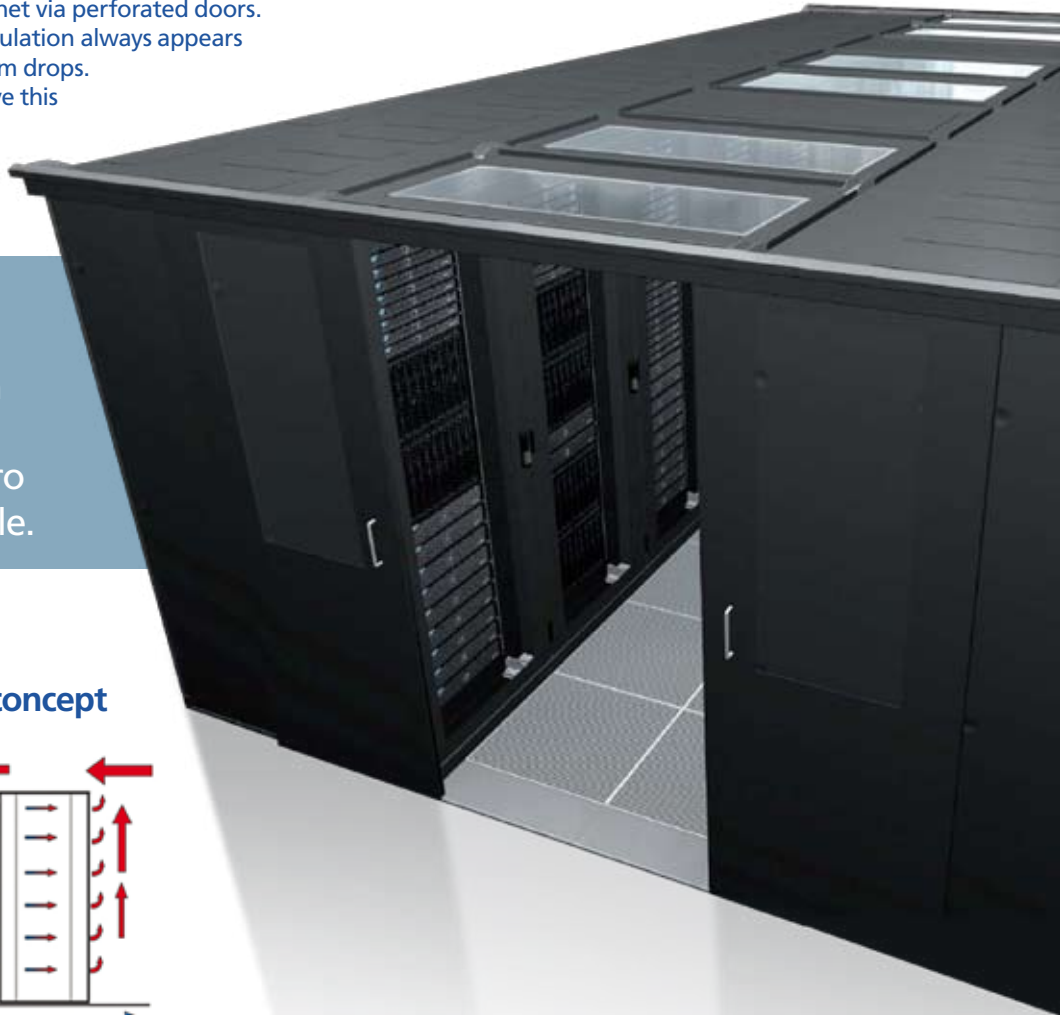


Cold Corridor

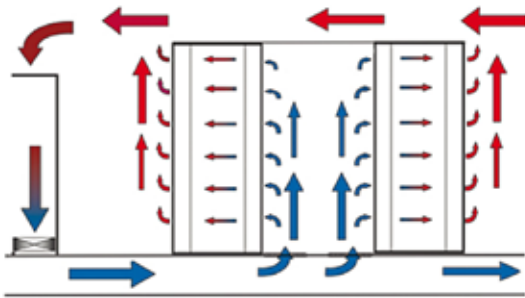
Improve your Cooling Efficiency

Many Data Centres and Computer Rooms use a cold/hot aisle system in which the air is guided to the front of the cabinet through perforated tiles. This air is guided into the cabinet via perforated doors. In this traditional situation air recirculation always appears by which the efficiency of the system drops. 2bm offers the possibility to improve this system dramatically by introducing the "cold corridor" concept.

2bm has extensive experience of 'cold corridor' installations in both new and existing data centres where retro fit solutions are available.



NEW FEATURE: Cold air concept



The concept is based on the principle of complete separation of the hot and cold air flow which leads to efficiency improvements. This is achieved by closing the cabinet rows at the cold side by a roof construction and by placing doors at the front and back side of the corridor. The cold air flows into the cabinet from the raised floor and enters the "cold corridor" via gratings. Due to the construction, all the cold air will be used to cool the equipment. Of course, the cabinets have to be provided with side skirts, besides the 19-inch profiles and blanking panels between the equipment.



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