

EVOLUTION + ADAPTATION:

ARCTIC 3.0

THE FINAL RACK



POWER

AISLE
CONTAINMENT

ARCTIC RACK

CABLE
MANAGEMENT

COOLING



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Certifications, Directives and Quality Assurances.

All products shown in this catalog have been designed and manufactured pursuant to the following certifications and directives:

- UNE EN ISO 9001:2008
- UNE EN ISO 14001:2004
- EC 60297
- EIA/ECA-310-E
- EMAS Regulation (EC) No. 1221/2009
- Machine Directive 2006/42/EC
- Low Voltage Directive 2006/95/EC (LVD)

All products shown in this catalog have been designed and manufactured pursuant to the following certifications and directives:

SAIFOR is a leader in the design, manufacture and integration of high-performance solutions for Data Processing Centers and Control Rooms.

The SAIFOR Group designs and makes all of its products entirely in Barcelona (Spain). Our production plant is outfitted with state-of-the-art machinery, that brings us the greatest flexibility to adapt to our client's individual requests and to fulfill our commitments and comply with our corporate Environmental Responsibility Policy to the letter

SAIFOR has become a veritable technological powerhouse that markets highly reliable and long-lasting products and rigorously meets the most stringent European quality standards.



ARCTIC 3.0

The Final Rack

ADAPTABILITY

The ARCTIC 3.0 rack is designed to meet all data center installation, operation and maintenance needs. This highly versatile and functional rack is capable of satisfying the needs of the most modern and demanding DCs. These 19" racks are manufactured following an approach that aims to optimize cooling and cable management.

EVOLUTION

The ARCTIC 3.0 is the natural successor of the ARCTIC V2 rack. Thanks to the market feedback obtained during the service life of its forerunner, the ARCTIC 3.0 has undergone a full range of improvements to adapt it to new market demands and trends in DC environments.

SPACE

The exponential-growth experienced by the demand curve of data traffic, storage and computation requires data centers to increase the concentration of servers and storage and communication devices by square meter. The ARCTIC 3.0 rack's modularity and scalability meets all current and future needs in this regard.

VERSATILITY

The versatility of the new ARCTIC 3.0 rack allows providing tailored solutions to each case, from installations requiring individual racks to large data centers which require long rows of racks that are fully adapted to the physical and ambient conditions of the infrastructure.

INTELLIGENT MANAGEMENT

The ARCTIC 3.0 has a wide range of accessories that will provide an intelligent and optimized solution meeting any requirement of high density server installations, communication equipment and storage, as well as thermal and cable management, while bringing down operating costs.



More Benefits

Maximization of rack top and bottom main cable entries.

Tool-less assembly and adjustment of accessories. Improved foot leveling system. Easier to use and more ergonomic. Casters included to facilitate transport.

Several positions for the depth of the 19" Mounts. Depth indicator marks.

Airflow neutralization system (Zero AirFlow). Up to a 77% increase in the door's perforated surface. 81.5% of the door has perforation.

Full range of accessories for cable management (fingers, rings, optical fiber spools...). Wide range of doors and handles. 1- or 4-point locks.

New ARCTIC V3 Doors: Lighter and Stiffer
New versatile 19" Mounts.

Side panel with a single lock. Available with a lock that can only be accessed from inside the rack.

Compatible with the CUBO system, HDC cooling units and ARCTIC V2 racks.

Benefits

1



CABLE ACCESS

Cables can be accessed either from the top or the bottom through openings on the sides. Increased cable inlet cross-section.

2



SIDE PANELS

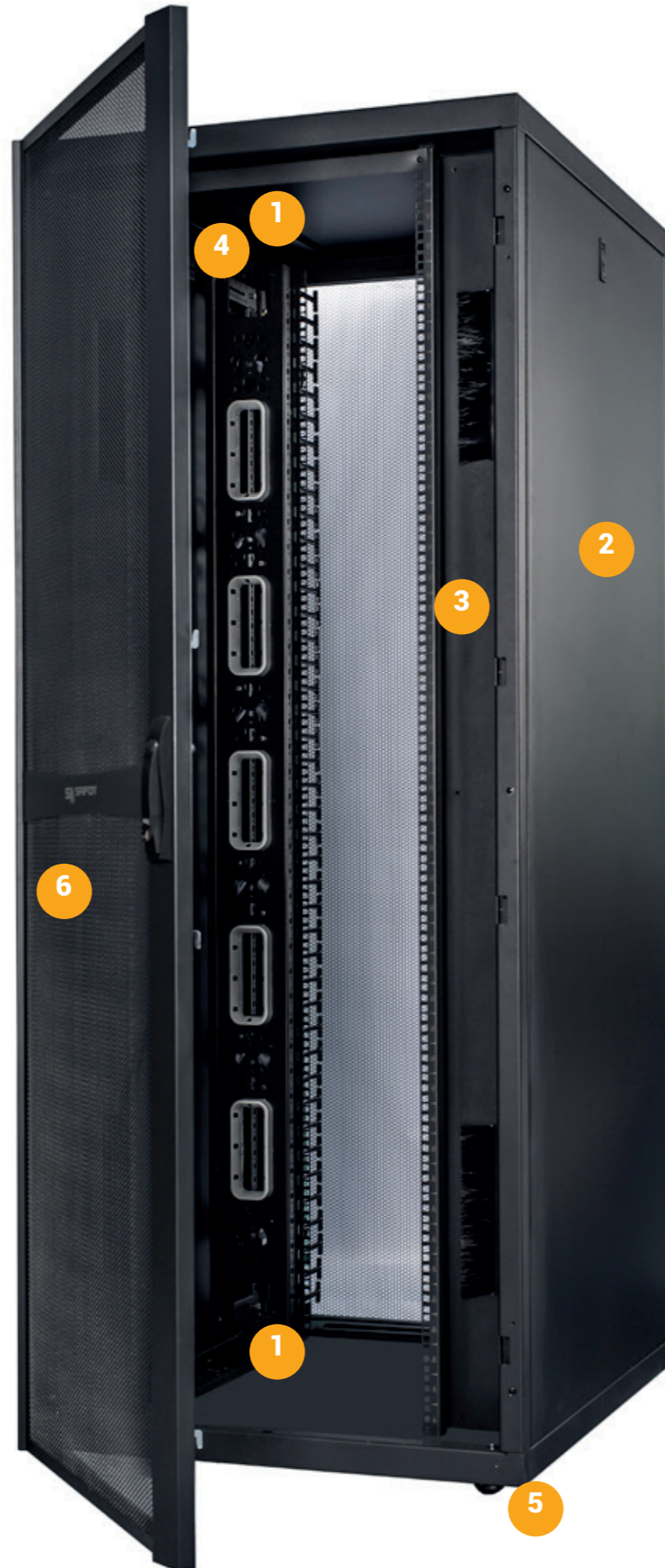
Easy to take down. There is only one central snap fixing point. The panels can be snap closed. They can be optionally locked for safety purposes.

3

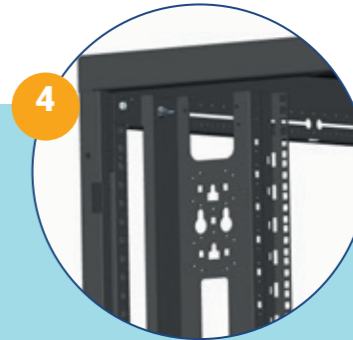


ZERO AIRFLOW 19" MOUNTS

The design of the mounts ensures that rack front is completely sealed off, with any chance of there being air flows.



4



MOUNT AND CABLE TRAYS

Several positions in which to adjust the depth of the 19" Mounts and vertical cable trays. Depth position marks on the rack.

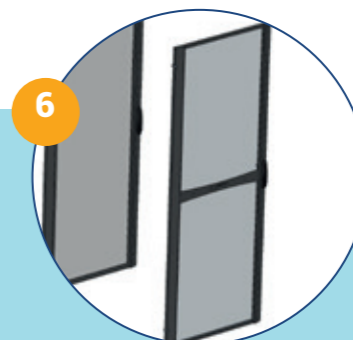
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CASTERS AND FEET

Delivery casters fitted to the cabinet. Easy and ergonomic access to adjust the leveling of feet. Rated static load bearing capacity ≤ 1,500 kg.

6

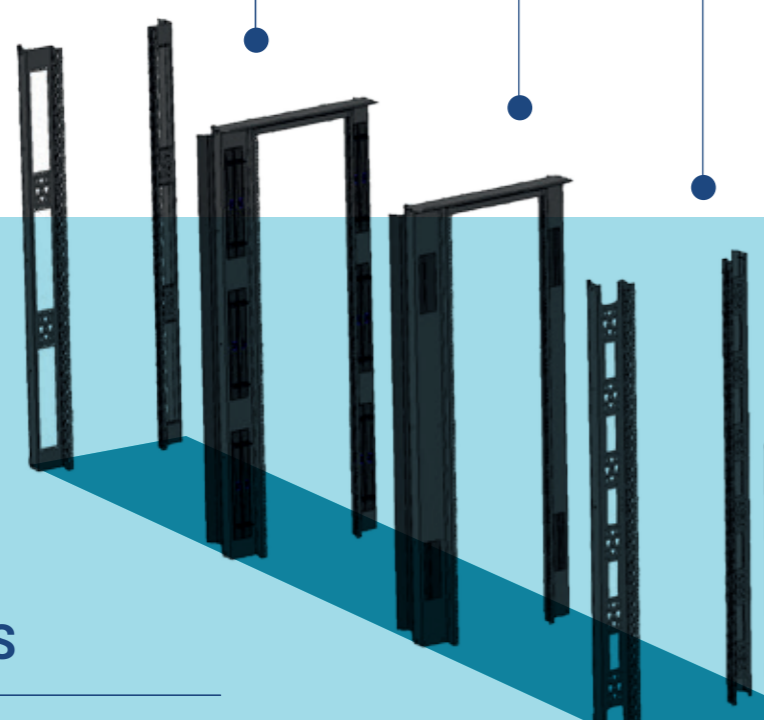


DOORS

New doors with an elegant design. Lighter and stiffer. More handle options and closure types.

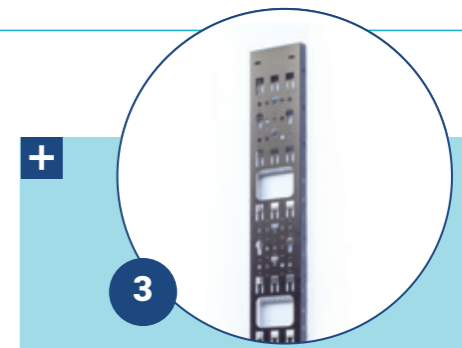
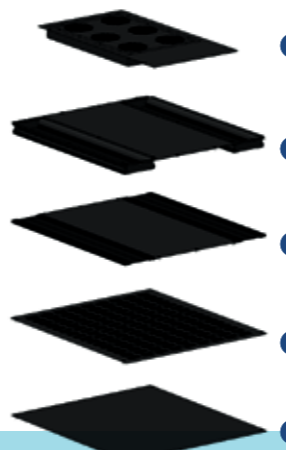
19" Mounts

- + 2U VERT. NET
- + 2U VERTICAL ZERO AIRFLOW
- + ZERO AIRFLOW
- + NET



TOP ACCESSORIES

- + FAN UNIT
- + RADIUS + BRUSHES
- + BRUSHES
- + VENTED
- + STEEL



VERTICAL CABLE TRAY
It allows the cabling inside the rack to be organized. Designed for mounting rings, spools and PDUs and direct flanging.

DOORS

- + DOUBLE STEEL
- + DOUBLE VENTED
- + STEEL
- + GLASS
- + VENTED

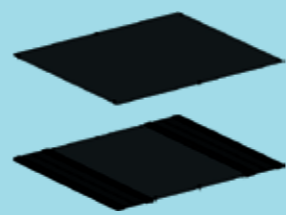


SIDE PANELS

- 1 SIDE PANEL
- 2 CABLE ENTRIES

BOTTOM COVERS

- STEEL +
- BRUSHES +



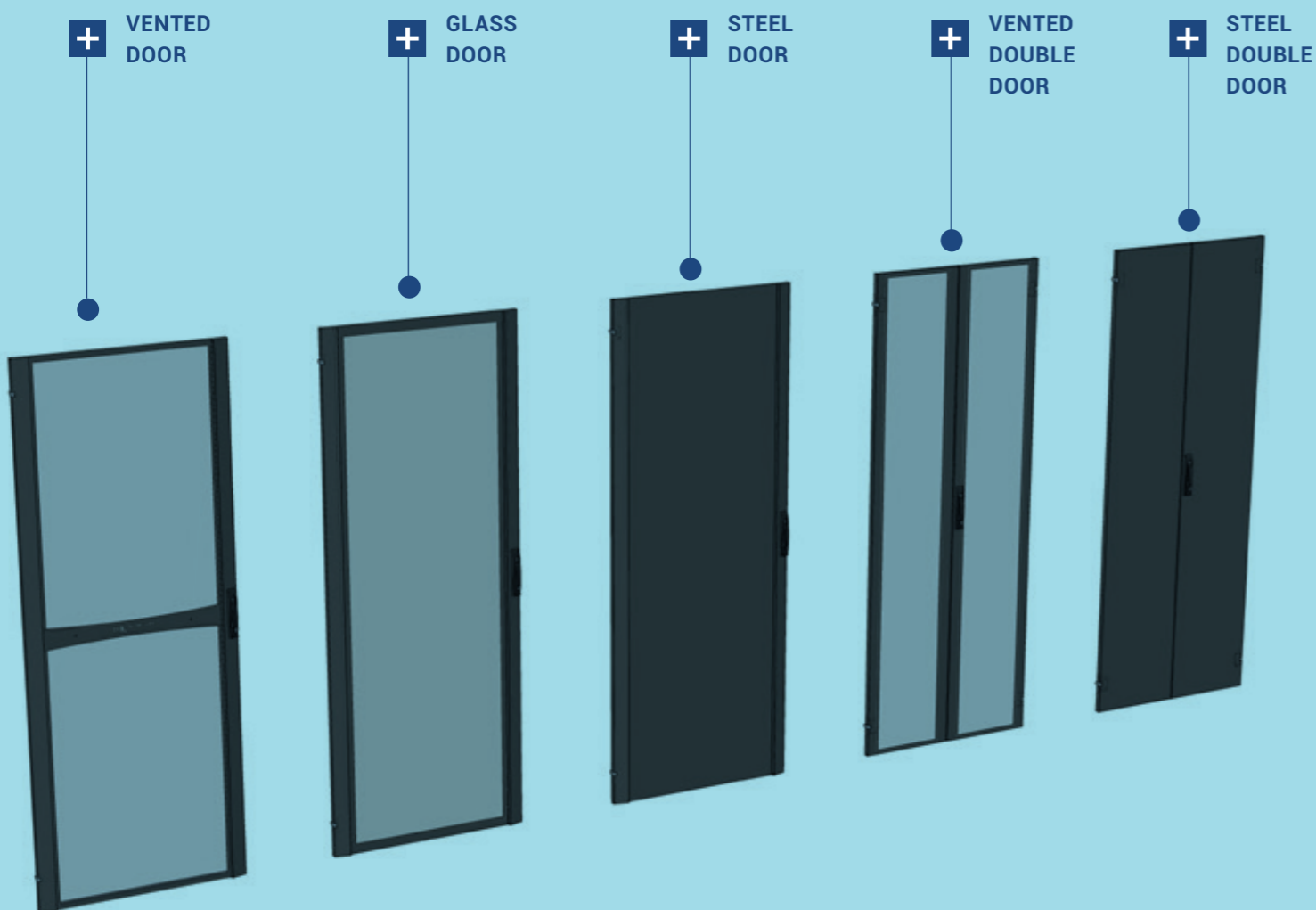
ARCTIC 3.0 RANGE

DOORS MODELS



The doors come in several models: vented; glass; steel; single or double. They meet all required needs or configurations. All our doors are very light and rigid and have a new elegant design.

Double doors allow for a smaller opening gap, so they are ideal for narrow corridors.



HANDLE RANGE



+

1

CENTER BELT

The logo can be customized. Available in a backlit LED version and a screen printed version.



+

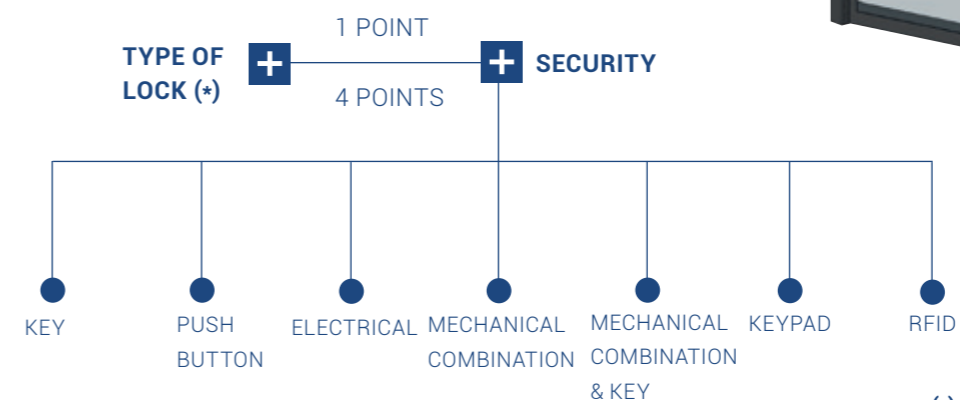
2

HANDLES

Available with two types of locks: 1 point and 4 points. Multiple safety options: Keyed cylinder; electric pulse opening cylinder; unlock button; mechanical combination cylinder; access control via keypad or RFID. Optionally, the doors can be operated via a remote control system.



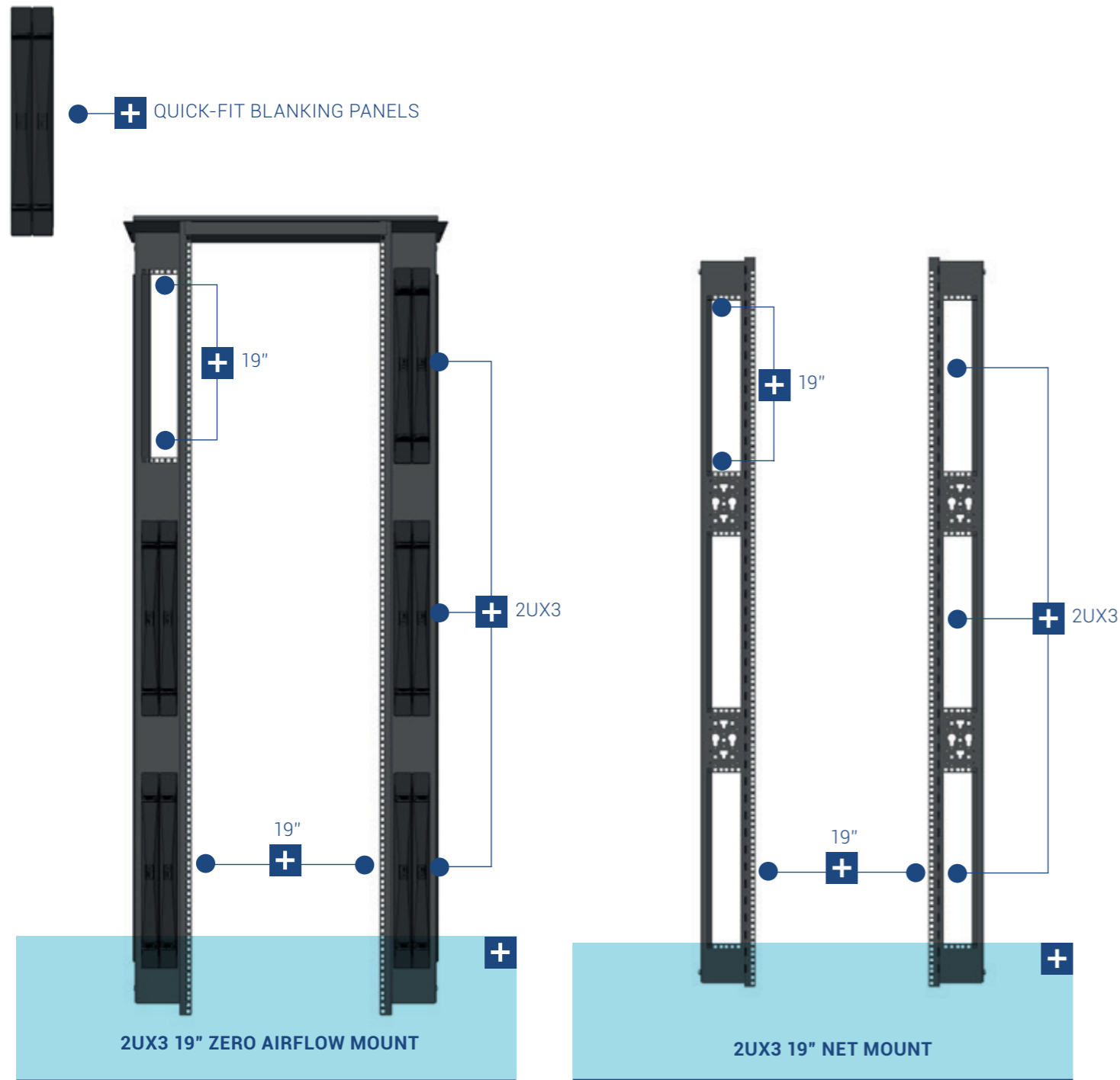
CHOOSE A HANDLE



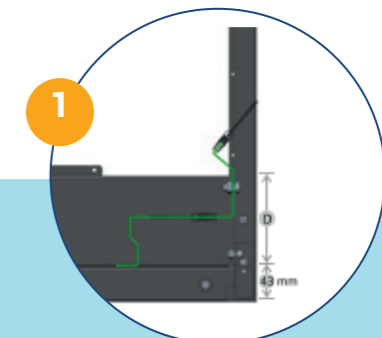
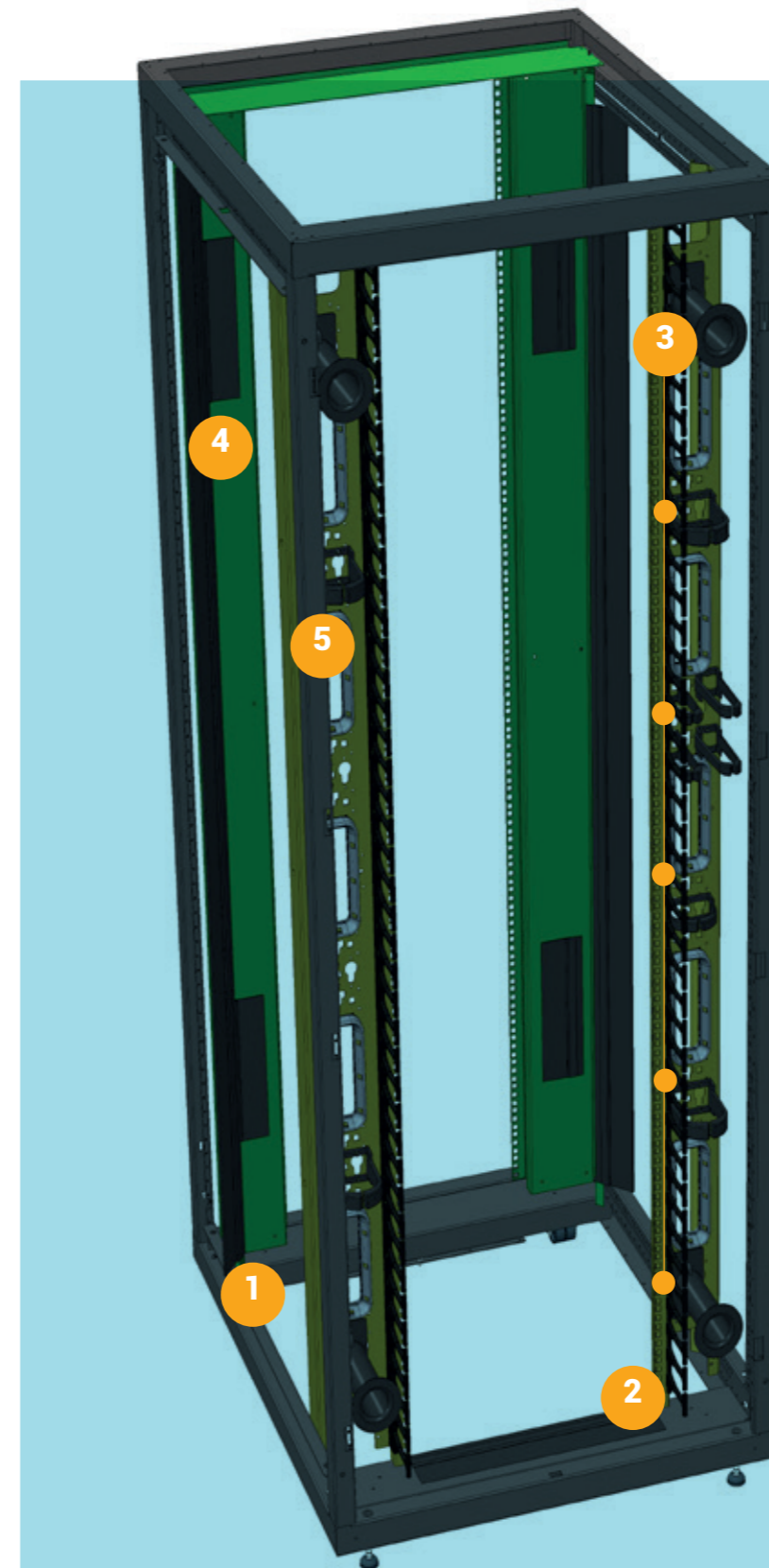
(*) Double doors only have a 2-point lock.

19" Mounts

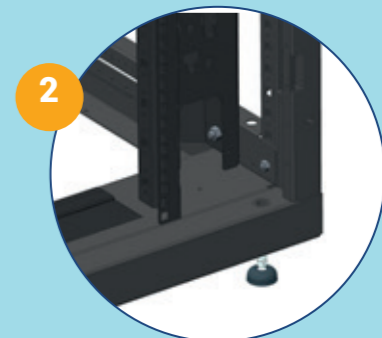
The 19" ZERO AIRFLOW mount provides an impassable barrier for the air flows inside the rack. It keeps the consumption of the data center's cooling system down to a minimum. The 19" NET mount is designed to maximize cable capacity and optimize cable management.



The 19" NET mounts can be turned into ZERO AIRFLOW mounts—and vice versa—with the transformation kits.



TOP SECTION
D: The depth-adjustment distance of the ZERO AIRFLOW mount (112 mm).



MOUNT ADJUSTMENT
 The depth of the mount's position can be easily adjusted. Optionally, this adjustment can be done without tools. The vertical mount units are laser marked



CABLE ACCESSORIES
 The 19" NET Mounts are ready for mounting all kinds of cable accessories (fingers, rings, spools or protectors with radiuses) and PDUs.

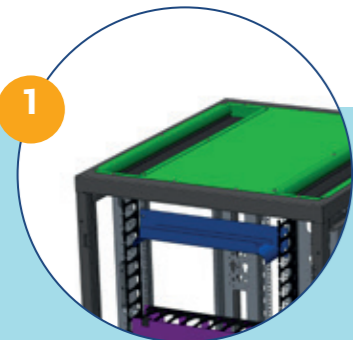
4 19" ZERO AIRFLOW MOUNT **5** 19" NET MOUNT

CABLE MANAGEMENT

ARCTIC 3.0

This rack has a wide variety of accessories available for organizing the vertical and horizontal cabling. Proper cable management will not only keep the equipment tidy but will also provide for greater natural ventilation and a comfortable and efficient cable management.

1



TOP CABLING COVER

Top and bottom cable entries have been made along the sides to keep the central space clear of any obstacles, thereby improving the access to and the cooling of the equipment. The cabling covers have gentle radiuses to protect the cable hoses.

2



HORIZONTAL 19" ORGANIZER WITH FINGERS

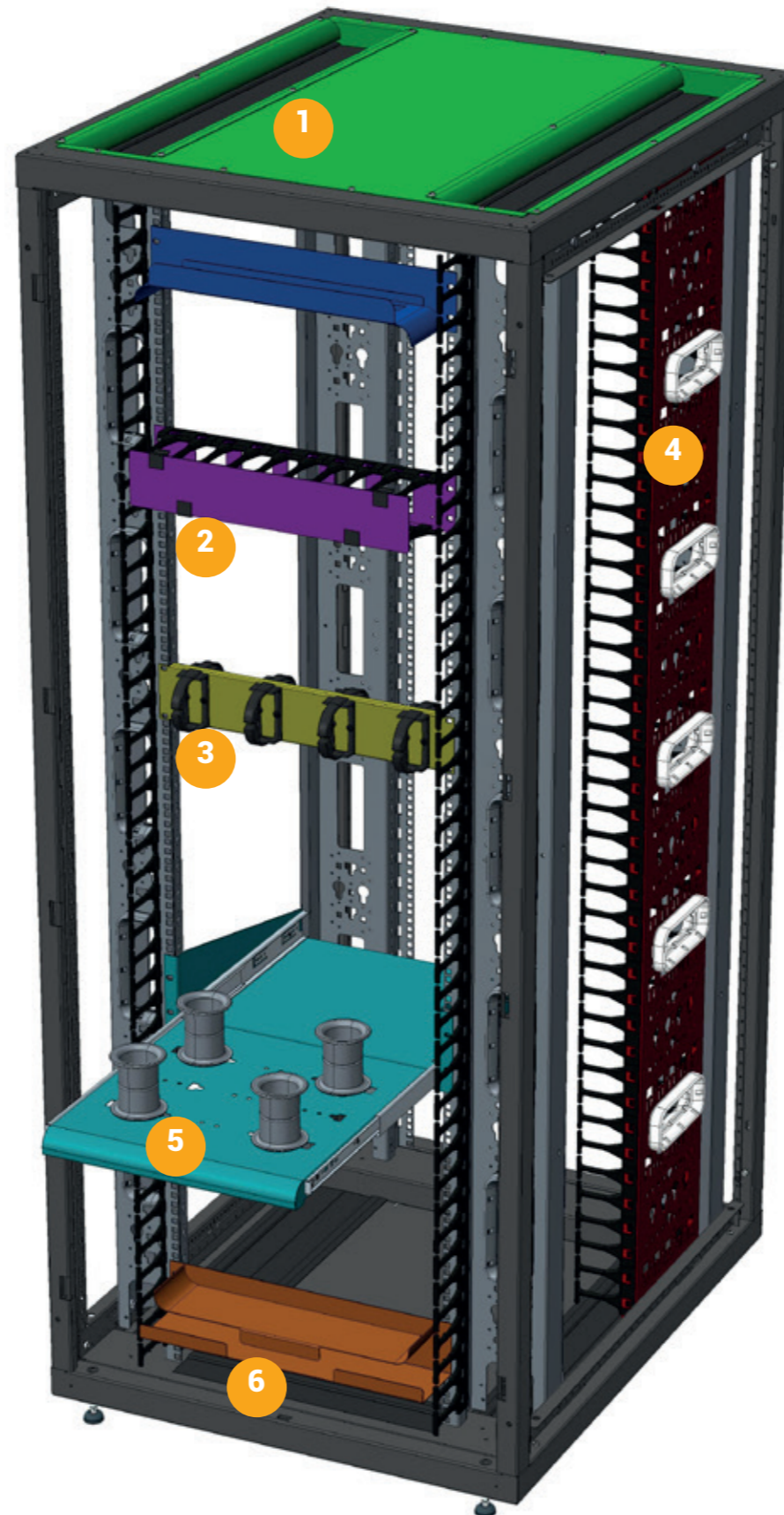
Ideal for horizontally organizing the cabling and patching equipment. Available in different sizes. One or two sides. Available in different depths.

3

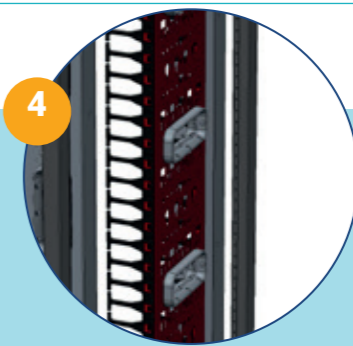


19" ORGANIZER WITH RINGS

Helps manage horizontal cabling. Available in different sizes and one or two sides.



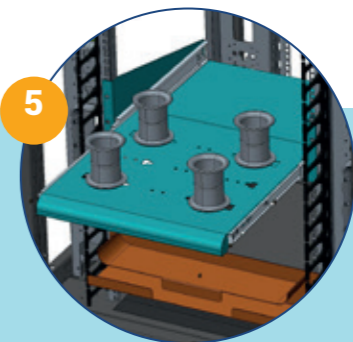
4



VERTICAL CABLE TRAYS

19" Mounts and cable trays have a smart die cut pattern for installing a great variety of accessories.

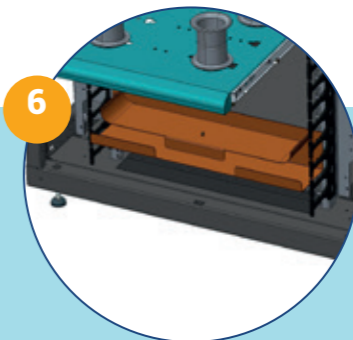
5



19" CABLE ROLL-UP TRAY

For winding up any excess cable. Available in 2u and 3u.

6



2U 19" BOTTOM TRANSITION TRAY

Helps the transition of cables to the other side of the rack.



NEW TOOL-LESS SCREW

It allows mounting the rings without any tools.

THERMAL MANAGEMENT

ARCTIC 3.0

The ZERO AIRFLOW solutions avoid undersired flows inside the racks while at the same time increasing the cooling efficiency, thus bringing down on the installation's energy bills.

1



19" ZERO AIRFLOW MOUNTS

They prevent air flows inside the rack. They are compatible with 600 mm- and 800 mm-wide racks.

2



SIDE PANEL

It isolates each rack individually. Easy to open and close. Only one central fixing point. Thanks to its snap closure system, it can be closed without having to lock it.



3



BRUSH

A new, tighter cable inlet brush having a greater cross-section.

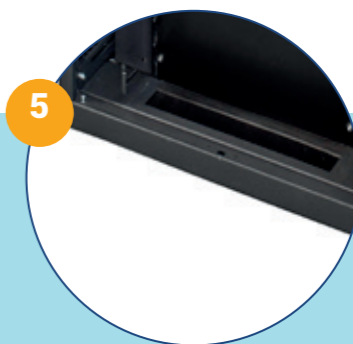
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19" QUICK FIT BLANKING PANELS

A solid panel which is easy to install and remove without using tools. It is used to seal gaps. Available in 1U and 3U.

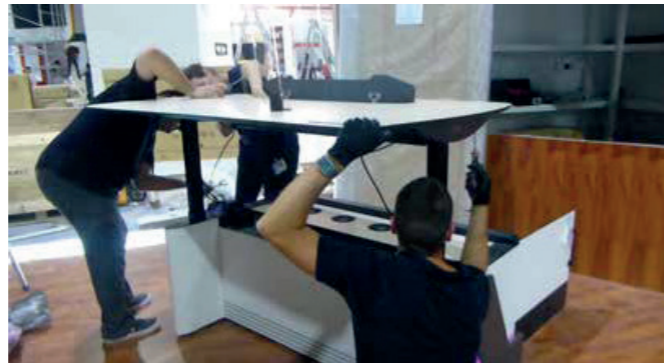
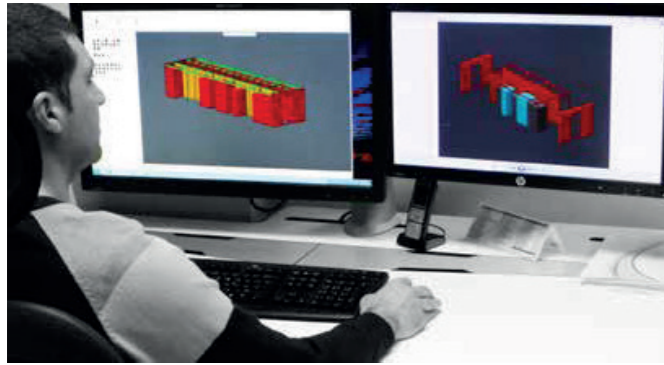
5



LOWER COVERS

They help to save energy by sealing the floor's perimeter. It prevents air from the aisle from leaking into the perimeter. Easy to install.





SAIFOR, a rising player

+ SAIFOR SLU:

Founded in 1985 and privately owned, SAIFOR is a leader in the design and manufacture of customized solutions for Data Processing Centers and critical mission Control Rooms.

Specializing in 19" racks and customized technical furniture, SAIFOR has a track record of over 25 years providing the highest standards of quality and service, and continues to lead the DPC and Control Center infrastructure industry. SAIFOR's main facility, which houses its main design center and a production plant covering more than 12,000 m2, equipped with state of the art machinery, is located in Vallbona de Anoya, Barcelona, Spain. SAIFOR has Product Showrooms

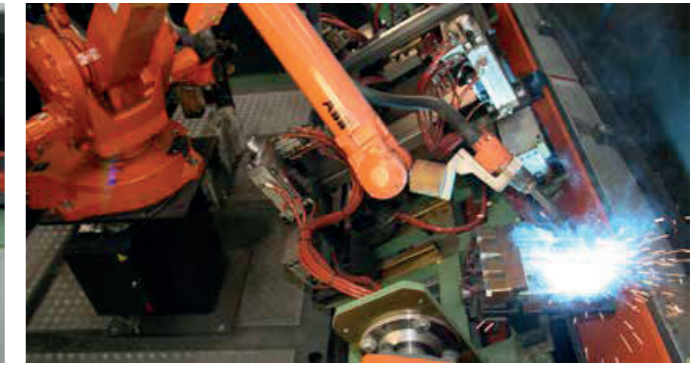
in Barcelona, Palaiseau (France), Kontick (Belgium) and Singapore. It has affiliates and company-owned locations in France, Belgium and the Middle East. To supply the international market, SAIFOR has assembly and shipment facilities at its subsidiaries in Palaiseau (France) and Kontick (Belgium), which, together its network of official partners, can carry out projects anywhere in the world. SAIFOR is an IGE Group company.



+ State of the art technology:

Our facilities, specifically built for our operations, are equipped with cutting edge technology. Our in-house laboratory fitted with the most advanced high precision testing equipment available on the market, bears witness to our commitment to

innovation, from a technology as well as a management standpoint. Our R&D department can meet any technical needs and is constantly working on new ideas, allowing SAIFOR to remain at the forefront of technology.



+ Mission:

To find technical solutions for the industrial sector and its production processes through the use of new technologies and materials. To design, produce and customize high-quality products to create unique solutions that meet the most exacting requirements of any data center or control room infrastructure.

To ensure constant and sustained growth, with a focus on quality improvement and innovation. To develop a diversified client base, covering different sectors to ensure stability. To proactively search for and consolidate the relationship with new clients and earn the recognition of their professionals.



+ Vision:

To become one of the world leaders in top-of-the-range 19" frames, cooling units and structured cabling solutions for data center infrastructures. To establish our company as

a leading player in the production of top-of-the-range specialized technical furniture for control centers.



+ People:

SAIFOR SLU's main asset is its people, their experience and professional and technical skills, and their know-how. Their personal and

professional development is a priority, and respecting and trusting them a basic principle.



+ Sustainability and Environment:

SAIFOR is fully committed to corporate environmental responsibility and has a policy of constant investment in technological resources to contribute to environmental protection and develop plans to prevent and reduce pollution and other environmental impacts, which are implemented in its production processes.

Such activities are carried out on three major fronts: water control, energy control, and use of environmentally safe materials. EMAS (Eco-Management and Audit Scheme) is a voluntary compliance EU standard that recognizes the efforts of organizations that

have implemented an EMS (Environmental Management System), allowing them to assess, improve and report on their environmental performance.

EMAS Awards: in 2010, SAIFOR S.L.U. received the EMAS award for its sustained commitment over more than 10 years to the fight against environmental impacts. Such recognition is the fruit of the sustained work of the SAIFOR team. This award is an incentive to persist in this environmental protection effort and to carry on working in the same direction.



+ Quality:

Quality and the environment are two particularly important elements of SAIFOR's mission statement. All of SAIFOR's professional staff have the committed and responsible attitude required to achieve the highest quality standards coupled with a high level of environmental respect.

SAIFOR has in place an ERP system to assist in the management of all its processes and carry out exhaustive control and monitoring – including traceability – of all the projects it undertakes.

The design of our facilities and the know-how

of SAIFOR's professional team allow us to successfully carry out the company's Green IT policies and manufacture high-quality products. Client and results driven: to ensure the continuity of the company, future service to our clients and the stability of our partners.

Client satisfaction is an assurance of success. SAIFOR holds ISO 9001 quality certification since 1997; ISO 14001 environmental certification since 2000; and EMAS environmental certification since 2000.

SAIFOR, SLU

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