



DAGARD

# MISTRAL

MODULAR COLD ROOM



A PUREVER COMPANY



## Purever specialises in controlled environments for clean, cold chain, and advanced technology applications worldwide.

We **design, manufacture, and build** these environments to enable crucial industries meet regulatory standards, protect operations, and perform with confidence.

Through advanced engineering and deep technical expertise, **we reduce risk and deliver high-performance environments built to last.**





# OVER 75 YEARS OF HISTORY

Dagard operates as a **technical partner across the full project lifecycle**—from initial design through to manufacturing, installation, and commissioning.

As part of Purever, Dagard benefits from a broader industrial network, strengthening its manufacturing capacity and international reach.

Since **1951**, Dagard has designed, manufactured, and delivered controlled environment solutions for industries with the highest performance and regulatory requirements. Specialising in modular panel systems for cleanrooms, cold storage facilities, and isothermal enclosures, Dagard supports

clients across the pharmaceutical, healthcare, food processing, and high-tech sectors.

Operating as a technical partner throughout the entire project lifecycle, Dagard provides expertise from initial design and engineering through to manufacturing, installation, and commissioning.

As part of Purever, Dagard combines decades of industrial expertise with the strength of an international manufacturing network, enhancing production capacity, project delivery, and global reach.

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# What is **MISTRAL**

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MISTRAL is a versatile modular cold room designed to meet the most demanding requirements for storage and freezing.

It is ideal for large, medium or small-scale establishments such as restaurants, commercial kitchens, large hotels and catering companies.

Constructed from robust materials, the MISTRAL modular cold room is made up of high-pressure injected, CFC-free polyurethane (PUR) panels with a density of  $40 \text{ kg/m}^3 \pm 2$ , coated with a 120-micron layer of plastic-coated sheet metal (non-toxic and antibacterial).

All the components and accessories that make up MISTRAL are crafted from premium materials, ensuring a flawless finish and a design that is both modern and functional.





## ABSOLUTE FLEXIBILITY

The MISTRAL Modular Cold Room adapts to any environment with exceptional flexibility. Thanks to its modular design, with 200 mm increments in height, length and width, it allows for a wide range of configurations and is easy to install, whatever the available space.

Its modular design also allows for the connection of several MISTRAL chambers (whether of the same thickness or not) or the creation of separate zones within the chamber, including those with different temperatures, in order to precisely meet the specific requirements of each application.



## QUICK AND EASY ASSEMBLY

MISTRAL has been designed for quick and hassle-free installation. It is assembled directly from inside the cold room, without the need to cut the panels.

Its FAST-FIT centring system ensures perfect panel alignment, guaranteeing precise and efficient installation, whilst its FASTENER system (a patented fastening mechanism made from non-deformable composite materials) offers exceptional durability, even after repeated assembly and disassembly.



## BESPOKE COLDROOM

MISTRAL is customisable: choose the dimensions and select from the three panel thicknesses available (60/100/130 mm) to suit your preferences and requirements.

For a bespoke installation, a wide range of accessories is available: swing doors, strip curtains, access ramps, interior lighting, modular shelving... If you choose a model with a base, there are several options available.

MISTRAL also incorporates key components for optimal performance: drainage channels, and for the 100mm-thick Mistral model, pressure-balancing valves and battens. Everything has been designed to meet your requirements with efficiency and flexibility.

# MISTRAL

## Innovation for Performance

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Drawing on its expertise and ongoing commitment to innovation, MISA is proud to present MISTRAL, the new generation of cold rooms.

The new MISTRAL modular cold room pushes the boundaries of performance and efficiency.

Thanks to significant improvements in insulation, technology and modularity, MISTRAL offers unprecedented benefits, meeting the increasingly stringent requirements of both standards and professionals.

This new room embodies our commitment to moving forward, constantly innovating and supporting our customers with ever more effective solutions.

With MISTRAL, MISA once again demonstrates its leadership in modular cold room solutions, offering a product that combines reliability, modernity and excellence.

The **breath of innovation**  
revolutionising refrigeration





## 120µm ANTIBACTERIAL STEEL/PVC COATING

Antibacterial treatment using silver ions, a technology designed to improve food safety for products stored in cold rooms.

## NEW ASSEMBLY TECHNOLOGY

The patented Fast-Fit and Fastener systems ensure that panels are assembled quickly and perfectly, both in terms of alignment and thermal insulation.

## INNOVATIVE INSULATED POLES

Insulated posts filled with polyurethane, featuring integrated corner fillets for 60 mm and 100 mm chambers.

## MULTI-THICKNESS & DIRECTIONAL POLES

Poles suitable for all configurations: From 2 to 4-way, capable of connecting a 60 mm chamber with a 100 mm chamber.

## DOORS & OPTIONS

A comprehensive range of pivot doors with a wide variety of options.

## CONFIGURATOR

Discover all the possibilities with the online configurator.



## REINFORCED FLOOR

Reinforced flooring (P400) with R9 slip resistance (ISO 10545) and antibacterial treatment; static load capacity: 4,000 kg/m<sup>2</sup>

## 3 FLOOR THICKNESSES (60/100/130 mm)

The same as the wall and ceiling panels.

# Technical Specifications

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PLASTIC-COATED SHEET METAL  
CLADDING ANTIBACTERIAL 120 $\mu$



**3** CHAMBER  
THICKNESSES

**130mm**

NEGATIVE CHAMBER  
WITH FLOOR

**100mm**

NEGATIVE CHAMBER  
WITH FLOOR

**60mm**

POSITIVE CHAMBER WITH  
OR WITHOUT A FLOOR

## CORNER POST



FOAM  
POLYURETHANE

CORNER VENTILATION  
INTEGRATED

## 7 ROOM HEIGHTS



MODULES FOR  
200MM PANELS

**2.030mm**

**2.230mm**

**2.430mm**

**2.630mm**

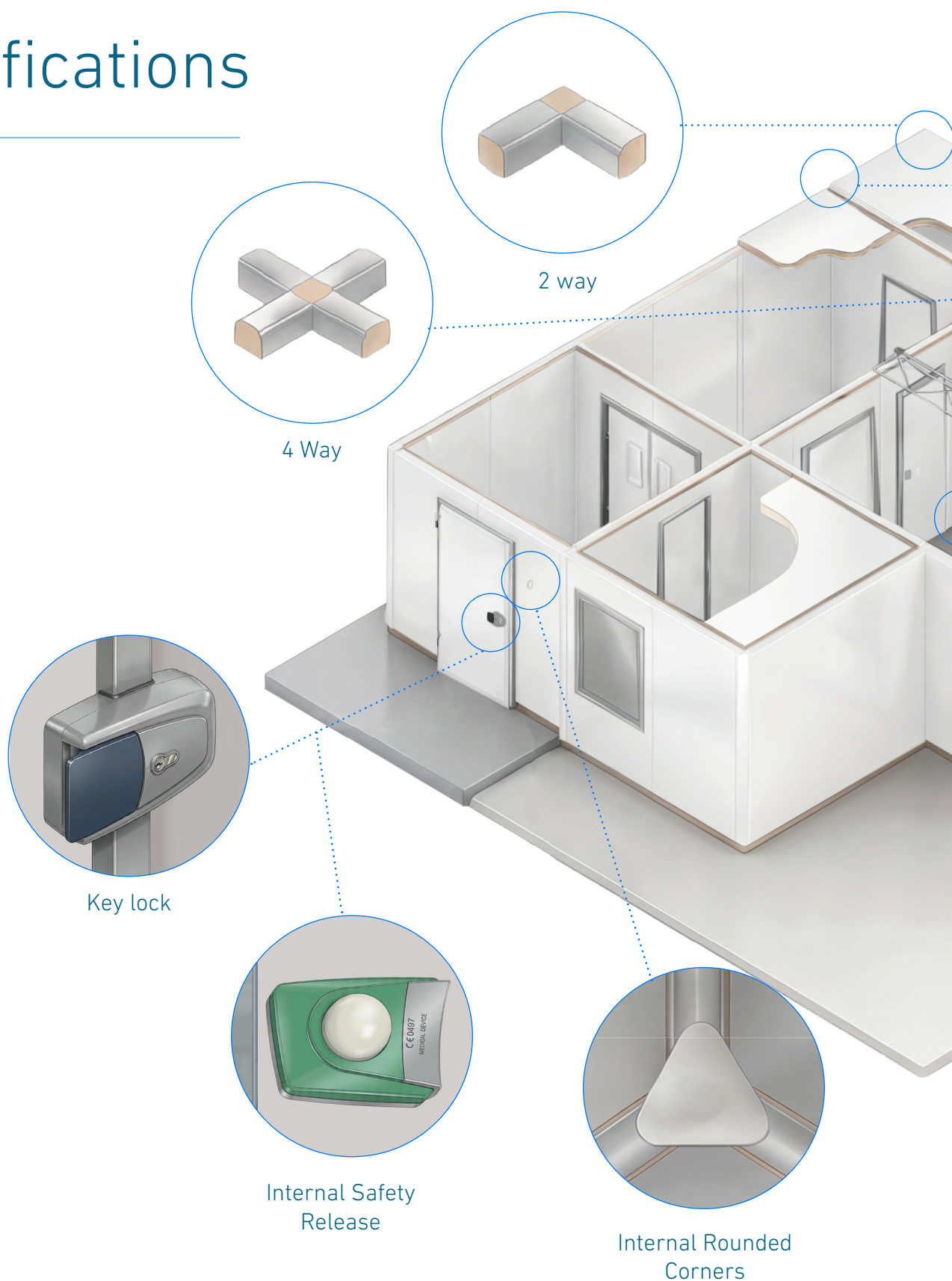
**2.830mm**

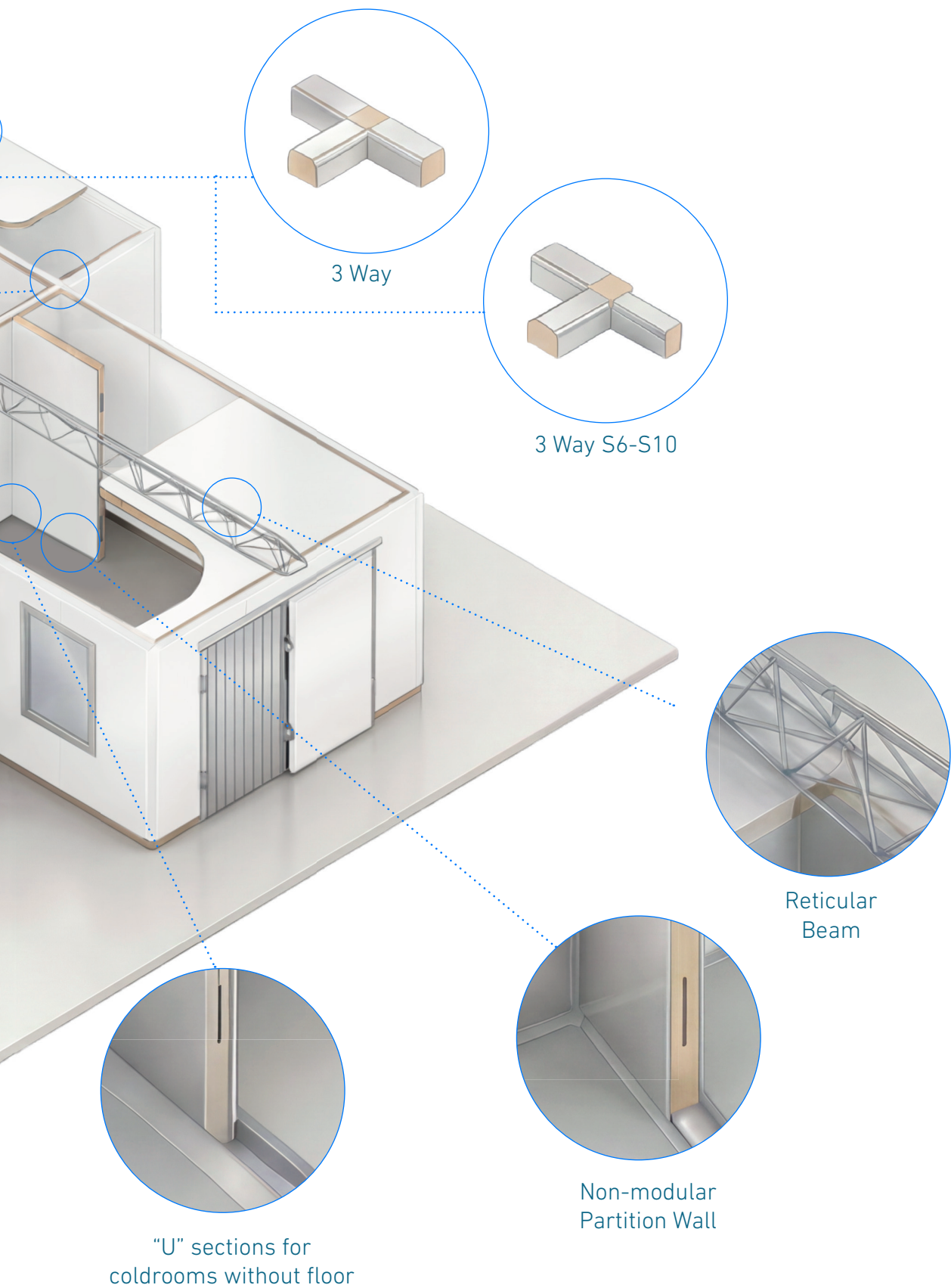
**3.030mm**

**3.230mm**



# Technical Specifications





# Technical Specifications

MISTRAL modular wall and ceiling panels consist of a 120-micron-thick, non-toxic, antibacterial plastic-coated sheet and a high-pressure injected polyurethane core, ensuring optimal insulation and being free from CFCs\* and HCFCs\*.

Each panel is fitted with several fittings, each consisting of a hook mounted on a pin, which allows the panels to be joined together and ensures a perfect seal.

To meet a range of refrigeration requirements, the MISTRAL modular cold room is available with panels in three thicknesses: 60, 100 and 130 mm.

Depending on the thickness selected, the panels are capable of maintaining internal temperatures ranging from +0°C to -40°C, thereby meeting the specific requirements of each refrigeration application.

\*CFC: Chlorofluorocarbon

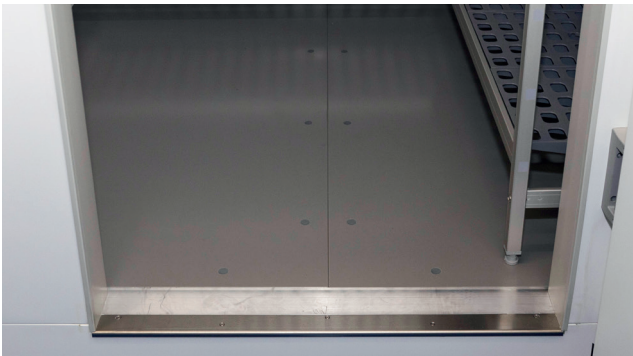
\*HCFC: Hydrochlorofluorocarbon



| SPECIFICATIONS FOR MISTRAL PANELS |                |                                           |
|-----------------------------------|----------------|-------------------------------------------|
| MODEL                             | T° RECOMMENDED | THERMAL CONDUCTIVITY<br>(Kcal/m²hC W/m²k) |
| MISTRAL 60                        | 0              | 0,29<br>0,34                              |
| MISTRAL 100                       | -25            | 0,18<br>0,21                              |
| MISTRAL 130                       | -40            | 0,15<br>0,17                              |

| DIMENSIONS OF MISTRAL VERTICAL PANELS/CEILING PANELS |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------------------------------------------|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                                                      | 400 | 600 | 800 | 1.000 | 1.200 | 1.400 | 1.600 | 1.800 | 2.000 | 2.200 | 2.400 | 2.600 | 2.800 | 3.000 | 3.200 |
| 400                                                  |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |
| 600                                                  |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |
| 800                                                  |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |
| 1.000                                                |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |
| 1.200                                                |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |





# Floor Panels

| DIMENSIONS OF MISTRAL VERTICAL PANELS/CEILING PANELS |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |  |
|------------------------------------------------------|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|                                                      | 400 | 600 | 800 | 1.000 | 1.200 | 1.400 | 1.600 | 1.800 | 2.000 | 2.200 | 2.400 | 2.600 | 2.800 | 3.000 | 3.200 |  |
| 400                                                  |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 600                                                  |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 800                                                  |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 1.000                                                |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |  |
| 1.200                                                |     |     |     |       |       |       |       |       |       |       |       |       |       |       |       |  |

MISTRAL floor panels are made from rigid polyurethane that is free from CFCs and HCFCs.

Four floor panel options (including our standard P400 model) are available, depending on the required strength for the intended use of the modular cold room.

The thicknesses of the floor panels are the same as those of the vertical and ceiling panels, namely 60, 100 and 130 mm.

**PED**

Paved Ground

**Composition**

7/10-mm-thick galvanised steel sheet with a plastic coating, treated to be non-slip and antibacterial.  
Injected polyurethane insulation 40 kg/m<sup>3</sup>

**Expenses**

Static load: 1,500 kg/m<sup>2</sup>  
Maximum load: 100 kg

**Option**

304 stainless steel finish

**P400**

Roll-in

**Composition**

7/10-mm-thick galvanised steel sheet with a plastic coating, treated to meet R9 anti-slip and antibacterial standards.  
Glued to a 10mm laminate floor with wooden inserts.

Injected polyurethane insulation, 40 kg/m<sup>3</sup>

**Expenses**

Static load: 4,000 kg/m<sup>2</sup>  
Dynamic load: 400 kg  
Maximum load: 140 kg

**Option**

18/8 304 stainless steel finish  
6/10th glazed, 80g (optional)

**P1000**

Roll-in Stratified

**Composition**

8 mm thick Mandarin-patterned anti-slip sheet (R10, ISO 10545).  
Injected polyurethane insulation, 40 kg/m<sup>3</sup>

**Expenses**

Static load: 4,000 kg/m<sup>2</sup>  
Dynamic load: 1,000 kg  
Point load: 600 kg

**P1000 IX**

Roll-in reinforced

**Composition**

Rigid 304 stainless steel sheet,  
10/10 gauge, anti-slip R12.  
Glued to a 15mm laminate floor with wooden inserts.

Injected polyurethane insulation, 40 kg/m<sup>3</sup>

**Expenses**

Static load: 5,000 kg/m<sup>2</sup>  
Dynamic load: 1,100 kg  
Point load: 250 kg



# Pivot Doors

The frames for MISTRAL modular cold rooms are manufactured using the same process as the panels. They consist of an outer and inner surface, each coated with a 120-micron layer of non-toxic plastic-coated sheet metal.

Rigid polyurethane foam, with a density of  $40 \pm 2 \text{ kg/m}^3$ , is injected between these two surfaces to ensure optimal insulation. During manufacture, reinforced plastic boxes are integrated to facilitate assembly with the vertical panels, in 200 mm modules.

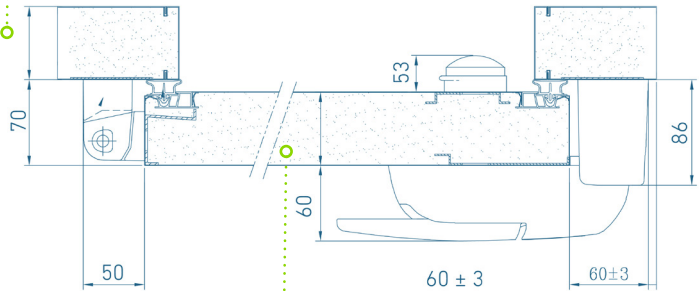
The available thicknesses are the same as those of the vertical panels, namely 60, 100 and 130 mm.

All doors are fitted with a key lock with a European cylinder (1), an internal 'knuckle' handle (2) and hinges (3) that facilitate installation and improve the door's seal. Cold-side doors are fitted with a heating cable.



## Thickness of the backing panel

60 / 100 or 130 MM



## Width of the door leaf

60 / 100 or 130 MM

## SPECIFICATIONS FOR MISTRAL PANELS

| MISTRAL 60 AND MISTRAL 100             |           |
|----------------------------------------|-----------|
| – WITH OR WITHOUT BASE – RIGHT OR LEFT |           |
| 2000x800                               | 1900x620  |
| 2200x800                               | 1900x620  |
| 2400x800                               | 1900x620  |
| 2000x1000                              | 2000x800  |
| 2200x1000                              | 2000x800  |
| 2400x1000                              | 2000x800  |
| 2000x1200                              | 1900x800  |
| 2200x1200                              | 2000x800  |
| 2400x1200                              | 2000x800  |
| 2000x1200                              | 1900x1000 |
| 2200x1200                              | 2000x1000 |
| 2400x1200                              | 2000x1000 |

## Options & Accessories

for installation and finishing

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### MODULAR SHELVING

The MISTRAL modular cold room can be fitted with 15-micron anodised aluminium shelving, certified for use in food-grade environments.

These shelves combine functional design with aesthetic appeal, whilst offering quick and easy assembly, thereby optimising cleaning and maintenance.

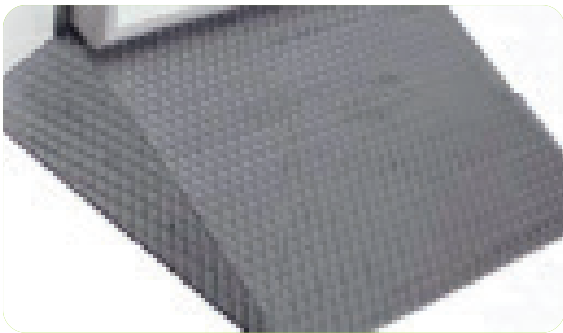
Thanks to the quality of their materials, each shelf can support a load of 100 to 120 kg. Adjustable feet, the option to add up to 10 levels and corner mounting options allow for optimal adaptation to the interior layout of the cold room.





### ACCESS RAMP

The access ramp is made of galvanised steel and covered with a non-slip aluminium coating. Thanks to its design and features, it combines lightness with robustness, making it easy to move whilst offering high strength, capable of withstanding a dynamic load of up to 800 kg.



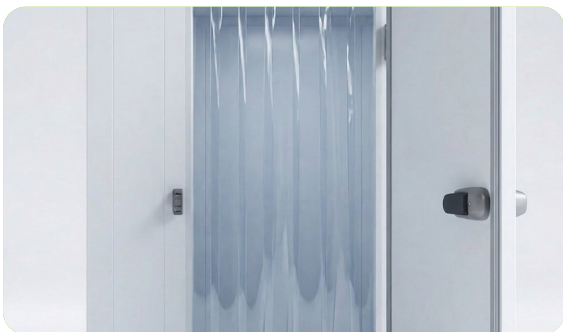
### INTERIOR LIGHTING

Built-in LED lighting available in 10W, 15W or 18W



### STRIP CURTAIN

This curtain consists of PVC slats attached to hinged polyethylene brackets and mounted on PVC tubes. The transparent slats are 200 mm wide and 2 mm thick.



### REFRIGERATION UNIT

The refrigeration unit keeps a cold room at the desired temperature for storing perishable goods. It operates via a cooling circuit comprising a compressor, a condenser and an evaporator.

(7W LED light and R290 refrigerant included)





### PRESSURE RELIEF VALVE

The valve compensates for fluctuations in internal or external air pressure to prevent excessive pressure from being exerted on the cold room panels. It is fitted with a heating element to prevent it from becoming blocked by frost build-up.

The valve is mandatory in negative-temperature cold rooms.



### WALL PROTECTION STRIP

Protective strips (also known as bumpers) are essential accessories for food processing premises where wheeled equipment (trolleys, forklift trucks, hand trucks, etc.) is in use.

Made from rigid PVC, these protective strips help to extend the lifespan of the cold store.



### SECURITY ALARM

The alarm unit is a safety system designed to ensure the protection of people in the event of accidental confinement in a cold room. It provides an audible and visual alarm, even in the event of a power cut, thanks to its built-in backup battery. Compliant with the UNI EN 378-1:2016 standard, this device is essential in negative-temperature cold rooms larger than 10 m<sup>3</sup>.





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