

**USEFUL ADVICE**

Before unpacking your new modular MATRIX cold room certify yourself that no packet was broken or damaged. The same applies to all components which make up the kit which you ordered, certify yourself that they are complete and not damaged. (Description of the elements that composes the kit)

**Preparation of the space:**

The space where you will install your new modular MATRIX cold room must be in perfect conditions, or be it, clean and without rubbish. The surface should be stable and levelled. In case it isn't possible to level correctly the floor we advise the installment of our component lavatory pan in order to guarantee the stability of the KIT.

**Tools:**

Together with your KIT the necessary tools are supplied for the assembling of your new modular MATRIX coldroom.

In any case we suggest that you have close by a tool box in case any kind of extra intervention in the space is necessary.

Note: For the assembling of cold rooms without floor and the suspension of ceiling panels it is necessary the use of a drill.

**Cleaning and maintenance:**

Don't use products which contain chlorine.

The ph must be between 4 and 9.

Don't use jets of water with a pressure superior to 50 bar (advised pressure: between 20 and 30 bar)

**TECHNICAL INFORMATION**

<b>Floor Panels:</b>	Plywood CTBX of 10mm, interior of brown or plate of stainless steel non-skidding "fenolic" resin (depth 6/10mm); Exterior steel plates lacquered 5/10 white colour; . Insulation part is in high density injected polyurethane foam.	Width 400 /1200 mm Length 400 / 3200mm Thickness 85mm
<b>Remaining Panels:</b>	Interior flate steel plates – 5/10 – ref 1006; Exterior flat steel plate – 0,5 RAL 9006. Insulation part is in high density injected polyurethane foam.	Width 400/1200 mm Length 400/3200mm Thickness 60/85/105mm
<b>Angles of Connexions:</b>	PVC gray colour RAL 7040 with a rounded corner; Insulation part is in high density injected polyurethane foam.	Width 400/1200mm Length 400/4000mm Thickness 60/85/105mm
<b>Panels Windows:</b>	Windows pre-set in factory; with a frame in rubber EPDM or aluminium, without frame, a bi-faceted windows	A large range of dimensions
<b>Doors:</b>	hinged doors, sliding and swing door ; galvanized flat steel pre-laquered polyester; blinds for cold rooms with positive or negative temperatures. Flexible doors for cold rooms with positive or negative temperatures.	A large range of dimensions
<b>Isolation advisable according to the thickness of the walls:</b>		
60mm – adapted to positive temperatures (+8° a +1°C);		
85mm – adapted to positive temperatures (external hot atmospheres) and negative (up to – 18° / -25°C)		
105mm – adapted to positive temperatures ( extreme external atmospheres) and negative (up to 18° / - 25° C )		

**GUARANTEE CONDITIONS**

This product is compromised by a guarantee whose period of validity is two years from the time of purchase. To benefit from this guarantee you must present the certificate of "International Guarantee" duly filled with name, address of the final consumer, mode and series number of the product and date of purchase.

This document will always be in possession of the consumer.

During the period of the guarantee any pieces that compose the KIT and that present imperfections of production, fabrication will be justly substituted for new. The guarantee does not include:

- Unexpected irregularities because of bad handling, negligence or handling in contrary to the instructions included in the manual;
- Modification or incorporation of pieces different from the equipment, applied by non – authorized technical services or others ;;
- Defects caused by short circuit or by a mechanic detraction;
- Compensations for personal harm or caused on materials.

# Assembling Instructions

Dear Sir/Madam,

Before anything else we want to congratulate you on the choice of your new modular MATRIX.

Fabricated with our biggest dedication by experienced professionals, in modern and technically advanced factories.

The quality of its materials confers their endurance, durability and reliability in accordance with the most demanding european rules

**Remove or Enlargen:**

The modular MATRIX (cold room) was also designed to enable one to enlargen without the necessity of interrupting its operation.

Of easy assemblment the modular MATRIX cold room also permits to be taken apart and transferred to another place.

Save this manual, keeping it always in hand for future reference.

## Modular Cold Room



## SECURITY RULES

**NOTE !**



ALWAYS USE PROTECTION GLASSES.  
THE COMPONENTS IN PVC CONTAIN SPLINTERS THAT CAN CAUSE SERIOUS EYE INJURIES.  
IF A SPLINTER ACCIDENTALLY FALLS INTO YOUR EYES, WASH GENTLY WITH COLD WATER.

**NEVER TRY TO RUB YOUR EYES**

**NOTE !**



ALWAYS USE PROTECTION GLOVES.  
THE METAL COMPONENTS CONTAIN SPLINTERS WHICH CAN CAUSE CUTS IF HANDLED WITHOUT PROTECTION.

**PREVENT UNNECESSARY ACCIDENTS**

### Key:

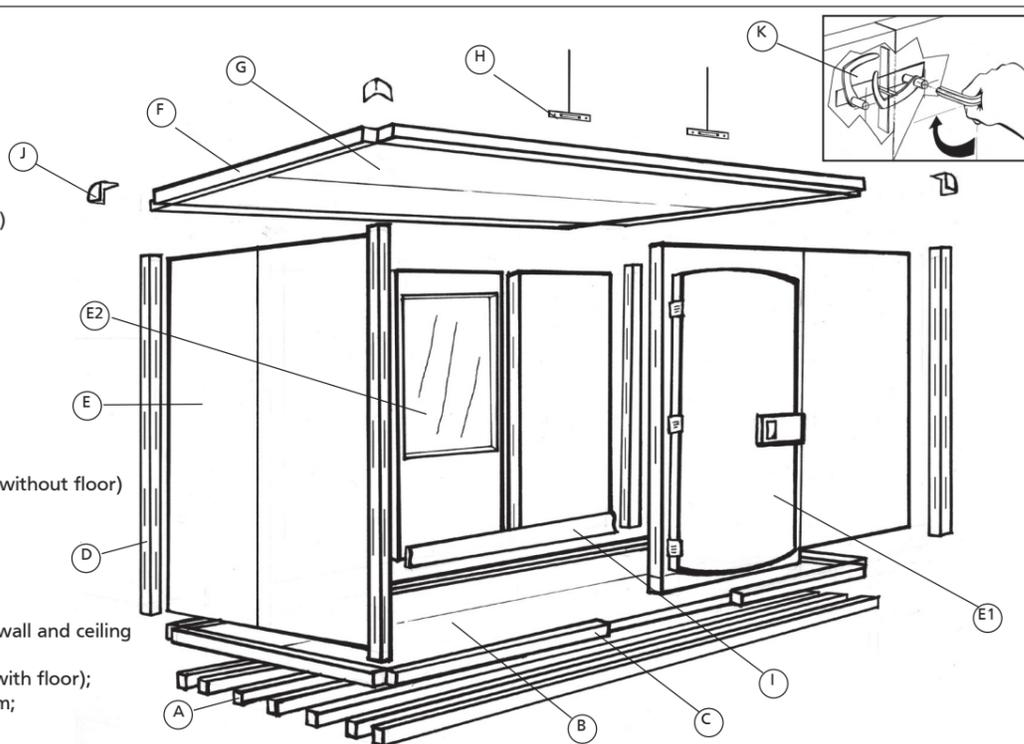
- A – Empty Sanitary (Optional)
- B – Floor Panels
- C – Floor Angles
- D – Vertical Angles
- E – Vertical Panels
- E1 – Door
- E2 – Panels with Window (Optional)
- F – Ceiling Angles
- G – Ceiling Panels
- H – Ceiling Support (Extra Pieces)
- I – Floor Panel (Optional)
- J – Exterior Corners of connexion
- K – Fixing Axle

### Accessories:

- Six – Faceted Spanner
- Protection Lids
- Fixing Plugs for doors (Cold room without floor)
- Screws, nuts and Pleigs

### Extras ( Optional ):

- Skirting (interior/exterior)
- Silicone for Joints;
- PVC coving sections (cladding for wall and ceiling angles)
- PVC Profile Platform ( for Rooms with floor);
- Protection tops in PVC for platform;
- Pressure relief valves



### Componente Description:

#### Empty Sanitary ( Piece A – Optional )

In order to ease the air circulation and confirm a good levelling of the base of the cold room we suggest you place the Empty Sanitary.  
Note: The platforms for the Empty Sanitary are the only pieces which don't contain holes and have ( a dimension of) DIM L40 X A60 mm.

#### Floor Panels ( Piece B ):

Are always composed by a white exterior side and an interior which must vary according to the finishing required for the floor of the cold room.

#### Belt for cold rooms without Floor ( Piece C1 ):

Used for cold rooms without floor. They have different dimensions (DIM. Height 30mm and Width 60/80/105mm\*)

#### Angles for cold rooms with Floor ( Piece C2 ):

Used for cold rooms with floor. They are identified by rectangular DIM section profiles. Height 115 X width 60/85/105mm\*.

#### Vertical Angles ( Piece D ):

Pay attention to the fact that vertical angles are easily mistaken with the ceiling angles ( Piece F)

since both have a square section with a rounded corner ( 60 X 60 mm / 85 X85 mm / 105 X 105 mm\*)

Note: On the contrary to the ceiling angles, the distance between the extremity of the vertical angles and the centre of the first fixing axis is always superior to 200 mm.

#### Vertical Panels ( Piece E):

According to the given layout of your cold room, you can identify every type of panels and its correct position.

ALWAYS consider the inferior parte of the vertical panel the extremity that respects the distance to the 1st fixing axel of 200mm and from this one to the 2nd axle of 800mm.

#### Ceiling Angle ( Piece F):

They have the same characteristics to the vertical angles of the square section (DIM 60 X 60 / 85 X 85 / 105 x 105\*)

Note: They can also be placed as the vertical panels are being installed.

#### Ceiling Panels ( Piece G):

As a general rule they are bigger than all of

them which were assembled, as normally each one of them fills completely the width of each cold room.

#### Skirting and PVC coving sections ( Piece I )

Instaled in the whole interior of the room it will make the cleaning easier and it will confirm the total hygiene guarantee.

#### Exterior corners of connexion ( Piece J )

For a better finish and appearance of your new cold room , exterior corners of connexion that are of easy fit and in washable material are supplied.

#### "Ómega" Ceiling Supports ( Piece H):

They will only be installed in coldrooms with a width superior to 3,2 mts so that, it can guarantee a perfect stability of the coldroom. They will be installed between the ceiling panel and fixed directly in the divisions ceiling.

\* DIM. Depending on the thickness of the cold room walls.

## ASSEMBLING INSTRUCTIONS

### Cameras without floor:

They differ slightly from the cold rooms with floor in the assembling of the floor belt (C1 Piece). These pieces have a different dimension (DIM Height 30mm and width 60/85/105mm\*); so that they can support the vertical panels (Piece E) and are fixed to the floor.

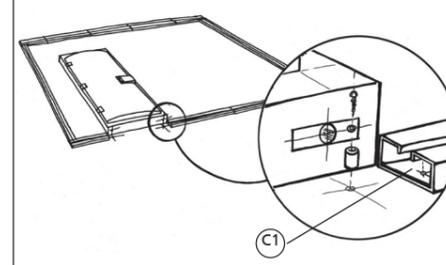
\*DIM depending on the thickness of the cold rooms walls.

### Coldrooms with Floor:

When choosing a cold room with floor the assembling is initiated by applying the lavatory pan (Piece A – Optional); of the floor panels (Piece B) and only then the floor angles (Piece C).

In this model, all elements are simply settled on the floor, without any interference in the level of fixing it to surfaces.

### 1a Cold Rooms without floor ( Pieces C1 )



**Step 1** – Distribute the floor fastening belts (Piece C1) according to the space organization that you chose. The space for the door(s) should be free. You now have the cameras limits well defined.

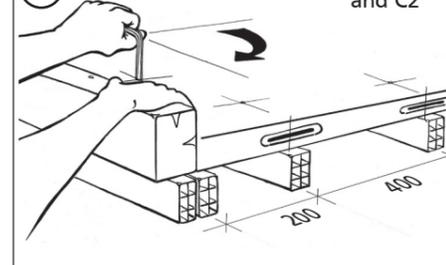
**Step 2** – Mark on the surface the place of the holes. Use a drill to make a 55mm hole in depth with a M10 drill. Fix all the belts to the floor using wedges and the given screws.

**Step 3** – Put the backs of the doors (interior) on the floor lined up with the place where they will be installed. The door should be within the limits of the cold room. (See Illustrations)

**Step 4** – Take out the two tops that hide the 2 holes of the cylinders base. Measure the distance of the worked holes on the floor and make a whole with a drill. Put the plug and fix the rubber cylinder to the

floor.  
**Step 5** – Now raise the door and fit it in the base's holes in the cylinder. You are now prepared to put the walls up.

### 1b Cold rooms with Floor – Pieces A, B and C2



**Step 1** - Arrange the various profiles that form the lavatory pan (Piece A) in the installation place of the cold room in intervals of 40 cm  
Note: the panels are put in the perpendicular with the length of the cold

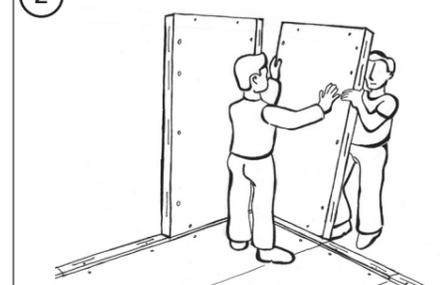
room.  
**Step 2** - The profiles put on the tops must be 20 cm in distance of its previous.  
Note: If you chose reinforced floor panels reduce the interval between the profile to 20 cm.

**Step 3** - Put the first floor panel (piece B) parallel to the platform profile  
Notice: Be sure that the white surface of the panel is turned down.  
**Step 4** - Put the following panels lined – up accord-

ing to the drawing of your cold room. Fix them rotating the key ¼ of turn in the panels holes, always confirming if they are well secure to each other.  
**Step 5**-Fill in all of the perimeter of the cold room with the floor angles

(Piece C2). Start in one of the sides where an outside platform exists (Piece A) Fix them to the floor panels rotating the key.

### 2 Setting up the Walls – Piece D and E



**Step 1** - Separate all the vertical angles (Piece D) from the ceiling angles (Piece F) in order to facilitate the assembling of the cold room.  
Note: The panels are positioned with the holes of the axle to the interior

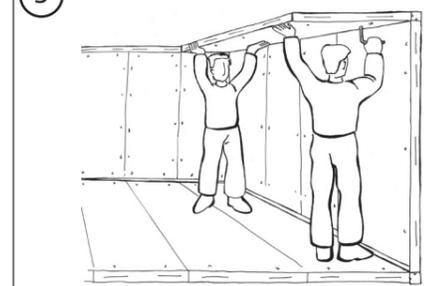
of the cold room.  
**Step 2** - With the help of another person, hold the first vertical angle in one of the corners of the cold room. Line up the first vertical panel (Piece E) with the floor angle and fix the axle rotating

the key in the holes.  
**Step 3** - Now join the vertical panel to the vertical angle (Piece D) by the same fixing process. Put the 2nd vertical panel up-right to the first, using the other side of the

vertical angle.  
**Step 4** – Install the remaining panels following the clock 's hands.  
Note: Always confirm that they are well secure to the floor angles, to the vertical angles and to each other.

**IMPORTANT NOTE:** The panels with doors should be installed in the same way, although these don't have floor angles to fix them on. Don't forget to take out the keys and open the door before fixing them.

### 3 Putting up the Ceiling–Pieces F G and H



**Step 1** - Put the ceiling angles (Piece F) on the vertical panels lining – up and positioning the fixing axles to the exterior of the cold room. Fix them to each other rotating the axis with the help of a wrench.

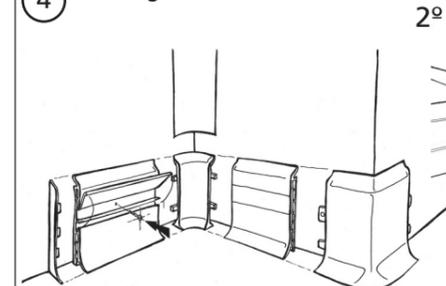
**Step 2** - Repete these steps until all the ceiling angles are put correctly.  
Note: These can also be put as the vertical panels are installed.  
**Step 3** - With the help of one or more people put- up the ceiling

panels (Piece G) to the height of the ceiling angles (Piece F). Position the openings of the fixing axles to the interior of the cold room.  
**Step 4** - Proceed to the adjusting, lining-up and rotating the axles with

a screwdriver.  
Note: If Omega ceiling supports exist (Piece H) to install, don't forget to put them up during the assembling of the ceiling panels

**IMPORTANT NOTE:** Don't let go of the ceiling panels until they are fixed at least on two of the sides.

### 4 Finishings – Pieces I and J



**Step 1** - To put the foot panel (Piece I) it is enough to measure each interior wall of the cold room and cut the profile to measure.

**Step 2** - After open the lid which hides the holes in the foot panel and screw them to the vertical panels.  
Note: Put on the extremities, the tops of the finishing ( next to doors and passages).

**Step 3** - The lavatory pans for interiores are put only by means of encasement. Fill in all the interior of the cold room with vertical corner panels, vertical panels and the ceiling

**Step 4** - For a better finishing only the exterior corners of the union are missing (Piece J) they are also put by means of fitting in, from top to bottom as shown in the attached illustration.

**READ ATTENTIVELY AND FOLLOW FAITHFULLY THE CONTAINED INSTRUCTIONS IN THIS MANUAL.  
LIKE THIS, YOU WILL HAVE THE GUARANTEE OF A BETTER RESULT IN THE USE OF YOUR NEW COLD ROOM.**